

# ALPHABETICAL INDEX

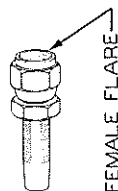
|                                           |             |                                          |             |
|-------------------------------------------|-------------|------------------------------------------|-------------|
| Accessory Drive - - - - -                 | 33          | Filters                                  |             |
| Air Cleaner - - - - -                     | 79,83       | Coolant - - - - -                        | 102,104     |
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|                                                 |               |                                                 |               |
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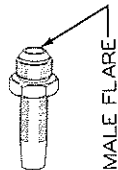
## NIPPLES

TYPE A



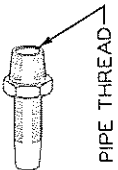
FEMALE FLARE

TYPE B



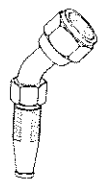
MALE FLARE

TYPE C

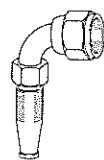


PIPE THREAD

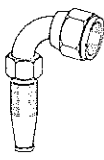
TYPE D



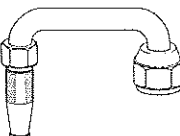
TYPE E



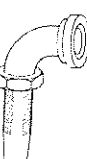
TYPE F



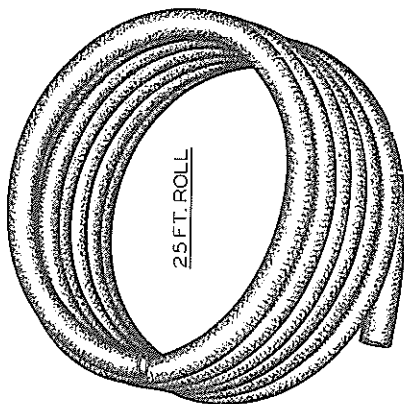
TYPE H



TYPE L



## HOSE



25 FT. ROLL

## SOCKETS



T-40495

## HOSE PARTS

**NOTE:** Refer to right hand column for identity of interchangeable crimped-type hose (fittings not re-usable). Assembly number shown in left hand column indicates available replacement hose assembly with re-usable components; where no assembly number is listed, hose assembly is not available from factory but may be constructed in the field from data indicated.

| HOSE ASSEMBLY NO.<br>(See NOTE) | BULK HOSE<br>(25' roll) | HOSE LENGTH<br>(inches) | NIPPLE (#1 end)  |             |      | NIPPLE (#2 end)  |             |      | SOCKET<br>(both ends) | NIPPLE FLANGE |     | CRIMPED-TYPE HOSE<br>(See NOTE) |
|---------------------------------|-------------------------|-------------------------|------------------|-------------|------|------------------|-------------|------|-----------------------|---------------|-----|---------------------------------|
|                                 |                         |                         | Including SOCKET | NIPPLE only | Type | Including SOCKET | NIPPLE only | Type |                       | Part No.      | Dim |                                 |
| 70632950                        | 70919196                | 38                      | 70920855         | 70919144    | B    | 70920862         | 70919194    | E    | 70919143              |               |     | 70646357                        |
| 70633458                        | 70919156                | 46-5/8                  | 70920858         | 70919080    | B    | 70920872         | 70919158    | E    | 70919076              |               |     | 70646839                        |
| 70633473                        | 70919156                | 30                      | 70920850         | 70920303    | A    | 70920872         | 70919158    | E    | 70919076              |               |     | 70646838                        |
| 70638072                        | 70919196                | 56-3/4                  | 70920855         | 70919144    | B    | 70920877         | 70919207    | D    | 70919143              |               |     | 70646354                        |
| 70639571                        | 70919155                | 34-3/8                  | 70920879         | 70919159    | D    | 70920864         | 70919082    | E    | 70919075              |               |     | 70645091                        |
| 70639650                        | 70920727                | 89                      | 70920852         | 70920344    | A    | 70920867         | 70919277    | E    | 70919281              |               |     |                                 |
| 70639896                        | 70919155                | 37-1/2                  | 70920849         | 70920302    | A    | 70920879         | 70919159    | D    | 70919075              |               |     | 70645090                        |
| 70639897                        | 70920222                | 79                      | 70921033         | 70921034    | A    |                  | 70922505    | L    | 70919282              |               |     |                                 |
| 70639901                        | 70920222                | 58-3/4                  | 70921033         | 70921034    | A    |                  | 70922505    | L    | 70919282              |               |     |                                 |

|          |          |         |  |          |          |       |  |          |          |      |  |          |  |          |
|----------|----------|---------|--|----------|----------|-------|--|----------|----------|------|--|----------|--|----------|
| 74386770 | 70920736 | 18      |  |          | 70922406 | C     |  |          | 70920514 | E    |  | 70920509 |  |          |
| 74386771 | 70920736 | 22-1/8  |  |          | 70920512 | E     |  |          | 70922207 | H    |  | 70920509 |  |          |
| 74386772 | 70919821 | 23-1/4  |  |          | 70920513 | E     |  |          | 70922208 | H    |  | 70919820 |  |          |
| 74386773 | 70922045 | 11-3/4  |  |          | 70922044 | E     |  |          | 70922044 | E    |  | 70922042 |  |          |
| 74386774 | 70919821 | 14-7/8  |  |          | 70922221 | E     |  |          | 70922372 | F    |  | 70919820 |  |          |
| 74387969 | 70920721 | 33-1/4  |  |          |          | A     |  |          |          | A    |  | None     |  |          |
| 74387970 | 70920388 | 54-1/8  |  |          |          | A     |  |          |          | A    |  | None     |  |          |
|          | 70919196 | 28      |  | 70920862 | 70919194 | E     |  | 70920862 | 70919194 | E    |  | 70919143 |  | 70638099 |
|          | 70919196 | 48-1/8  |  | 70920847 | 70920301 | A     |  | 70920862 | 70919194 | E    |  | 70919143 |  | 70643723 |
|          | 70919196 | 35      |  | 70920847 | 70920301 | A     |  | 70920855 | 70919144 | B    |  | 70919143 |  | 70643971 |
|          | 70920732 | 22-1/4  |  |          | 70922141 | short |  |          | 70922151 | Long |  | 70920569 |  | 70644449 |
|          | 70920732 | 36-3/4  |  |          | 70922141 | L     |  |          | 70922141 | L    |  | 70920569 |  | 70644450 |
|          | 70920732 | 20-3/4  |  |          | 70921120 | E     |  |          | 70921120 | E    |  | 70920569 |  | 70644452 |
|          | 70919156 | 9       |  | 70920865 | 70919081 | E     |  |          | 70919175 | F    |  | 70919076 |  | 70644603 |
|          | 70919156 | 9       |  | 70920865 | 70919081 | E     |  |          | 70919175 | F    |  | 70919076 |  | 70644604 |
|          | 70920222 | 158-1/4 |  | 70921033 | 70921034 | A     |  |          | 70922505 | L    |  | 70919282 |  | 70644617 |
|          | 70919196 | 43      |  | 70920855 | 70919144 | B     |  | 70920869 | 70919253 | E    |  | 70919143 |  | 70644696 |
|          | 70920222 | 82      |  | 70921033 | 70921034 | A     |  | 70921033 | 70921034 | A    |  | 70919282 |  | 70644759 |
|          | 70920222 | 21-3/4  |  | 70921033 | 70921034 | A     |  |          |          | D    |  | 70919282 |  | 70644786 |
|          | 70920222 | 15      |  | 70921033 | 70921034 | A     |  | 70920978 | 70921495 | D    |  | 70919282 |  | 70644841 |
|          | 70920222 | 65      |  | 70920868 | 70920144 | E     |  |          | 70922505 | L    |  | 70919282 |  | 70644905 |
|          | 70919196 | 14      |  | 70920847 | 70920301 | A     |  | 70920877 | 70919207 | D    |  | 70919143 |  | 70640575 |
|          | 70919218 | 12      |  | 70920850 | 70920303 | A     |  | 70920865 | 70919081 | E    |  | 70919076 |  | 70645236 |
|          | 70920221 | 16-1/8  |  | 70920867 | 70919277 | short |  | 70920874 | 70921042 | E    |  | 70919281 |  | 70645237 |
|          | 70920221 | 127     |  | 70920852 | 70920344 | A     |  | 70920867 | 70919277 | E    |  | 70919281 |  | 70645238 |
|          | 70920221 | 113-1/2 |  | 70920852 | 70920344 | A     |  | 70920867 | 70919277 | E    |  | 70919281 |  | 70645239 |
|          | 70920222 | 38-3/8  |  | 70921033 | 70921034 | A     |  | 70921033 | 70921034 | A    |  | 70919282 |  | 70645245 |
|          | 70920221 | 31-1/2  |  | 70920852 | 70920344 | A     |  | 70920860 | 70919279 | B    |  | 70919281 |  | 70645246 |
|          | 70919218 | 62-1/4  |  | 70920850 | 70920303 | A     |  | 70920865 | 70919081 | E    |  | 70919076 |  | 70645248 |
|          | 70919218 | 44      |  | 70920850 | 70920303 | A     |  | 70920850 | 70920303 | A    |  | 70919076 |  | 70645250 |
|          | 70919218 | 55-3/4  |  | 70920850 | 70920303 | A     |  | 70920865 | 70919081 | E    |  | 70919076 |  | 70645251 |
|          | 70920222 | 86-1/2  |  | 70921033 | 70921034 | A     |  | 70921033 | 70921034 | A    |  | 70919282 |  | 70645260 |

(Continued)



# PACKAGED PARTS

| PACKAGED NO. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 70654544     | BRACKET KIT, rear fender mounting (Required to adapt late type Final Drive Housing on tractors prior to #7753. See page 265)<br>2 70651963 BRACKET, angle (Requires welding to fender<br>6 70023618 CAPSCREW, 5/8"NF x 2-1/2"<br>12 70064810 WASHER, plain<br>6 70904209 LOCKWASHER, 5/8"<br>6 70911044 NUT, 5/8"NF<br>1 S-4417 INSTRUCTIONS                                                                                                                                                                                                     |
| -----        | CLUTCH KIT, over running (See page 120)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 74391360     | CONVERSION KIT, crankshaft damper (For engines prior to #16-07405)<br>1 74388217 DAMPER, crankshaft pulley<br>1 74388253 PULLEY, water pump idler<br>1 74388342 BRACKET, water pump lube hose<br>1 74388339 BRACKET, water pump idler pulley<br>1 74390934 PULLEY, crankshaft<br>6 74391022 BOLT, crankshaft damper<br>1 74391230 KEY<br>1 74391351 BELT, water pump<br>1 74391593 PULLEY, water pump<br>1 74393587 CAPSCREW, crankshaft pulley<br>6 74752002 BOLT, water pump pulley<br>1 70919134 PLUG, pipe, idler pulley bracket             |
| 74394015     | GASKET KIT, cylinder head<br>8 74254873 WASHER, rocker cover capscrew<br>8 74255956 SLEEVE, fuel line<br>1 74361551 GASKET, air inlet elbow<br>6 74376483 GASKET, water manifold<br>1 74376520 GASKET, thermostat cover<br>6 74378031 GASKET, injection nozzle<br>1 74386137 GASKET, water by-pass tube<br>14 74387697 GASKET, intake manifold<br>2 74389961 GASKET, rocker cover<br>2 74390170 GASKET ASSY., cylinder head<br>1 74391707 GASKET<br>1 74392279 GASKET, water manifold connecting<br>2 74393989 GASKET, cylinder head lower cover |
| 74394034     | GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)<br>2 70667252 GASKET, oil drain plug<br>1 70923575 O-RING<br>8 70923645 O-RING, injection pump connectors<br>1 70923813 O-RING<br>5 70923934 O-RING<br>1 70923935 O-RING, water pump body<br>2 74113897 GASKET, regulating valve nut<br>4 74119937 GASKET, plugging capscrews<br>2 70923810 O-RING, flywheel housing dowel                                                                                                                   |

(Continued)

# PACKAGED PARTS

| PACKAGED NO.            | DESCRIPTION                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------|
| 74394034<br>(Continued) | GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets) |
| 8                       | 70923379 O-RING, water tubes                                                                        |
| 2                       | 70923651 O-RING, bonnet tube                                                                        |
| 5                       | 74255511 O-RING, heat exchanger and oil filter                                                      |
| 2                       | 74255513 O-RING, (Discard. Not for HD16)                                                            |
| 12                      | 74255631 O-RING, oil cooler to manifold                                                             |
| 4                       | 74255665 O-RING, injection pump bracket                                                             |
| 2                       | 74255781 O-RING                                                                                     |
| 1                       | 74255904 O-RING, flywheel housing                                                                   |
| 1                       | 74255912 O-RING, flywheel to crankshaft                                                             |
| 12                      | 70925612 O-RING, water inlet manifold                                                               |
| 1                       | 74255898 O-RING                                                                                     |
| 1                       | 74310257 GASKET, oil filler pipe                                                                    |
| 1                       | 74336897 RING, sealing, flywheel housing                                                            |
| 1                       | 74361740 GASKET, water pump idler support                                                           |
| 1                       | 74367090 GASKET, tachometer hole nut                                                                |
| 1                       | 74371027 GASKET, gear housing hole cover                                                            |
| 2                       | 74371160 GASKET, heat exchanger                                                                     |
| 1                       | 74371289 GASKET, oil pan cover                                                                      |
| 3                       | 74371345 GASKET, oil lines                                                                          |
| 1                       | 74371742 GASKET, (Discard. Not for HD16)                                                            |
| 1                       | 74376398 GASKET, water pump                                                                         |
| 1                       | 74376603 GASKET, accessory pump                                                                     |
| 1                       | 74376609 GASKET, timing gear housing cover                                                          |
| 7                       | 74376749 WASHER, push rod cover capscrew                                                            |
| 2                       | 74377120 GASKET, push rod cover                                                                     |
| 2                       | 74378112 GASKET, lower water by-pass elbow                                                          |
| 1                       | 74379070 SEAL, oil pan                                                                              |
| 1                       | 74385317 GASKET                                                                                     |
| 1                       | 74385320 GASKET                                                                                     |
| 1                       | 74386223 GASKET, heat exchanger bonnet<br>(Discard on HD16)                                         |
| 1                       | 74386495 GASKET, water and oil manifold, lower                                                      |
| 1                       | 74386856 GASKET, heat exchanger (Discard on<br>HD16)                                                |
| 1                       | 74387525 GASKET                                                                                     |
| 1                       | 74388285 INSTRUCTION SHEET                                                                          |
| 1                       | 74389291 GASKET, water and oil manifold, upper                                                      |
| 1                       | 74388289 INSTRUCTION SHEET                                                                          |
| 1                       | 74389635 GASKET                                                                                     |
| 1                       | 74389676 GASKET, heat exchanger bonnet                                                              |
| 1                       | 74389678 GASKET, heat exchanger adaptor                                                             |
| 3                       | 74389782 GASKET                                                                                     |
| 1                       | 74394032 GASKET, timing hole cover                                                                  |
| 4                       | 74393359 GASKET                                                                                     |
| 1                       | 74660423 GASKET, oil pump discharge tube                                                            |
| 1                       | 74660492 GASKET, timing gear housing                                                                |
| 74390598                | PISTON AND SLEEVE KIT                                                                               |
| 2                       | 74253749 RETAINER, piston pin                                                                       |
| 1                       | 74379178 O-RING, cylinder sleeve (black)                                                            |
| 2                       | 74385485 O-RING, cylinder sleeve (red)                                                              |
|                         | (Continued)                                                                                         |

# PACKAGED PARTS

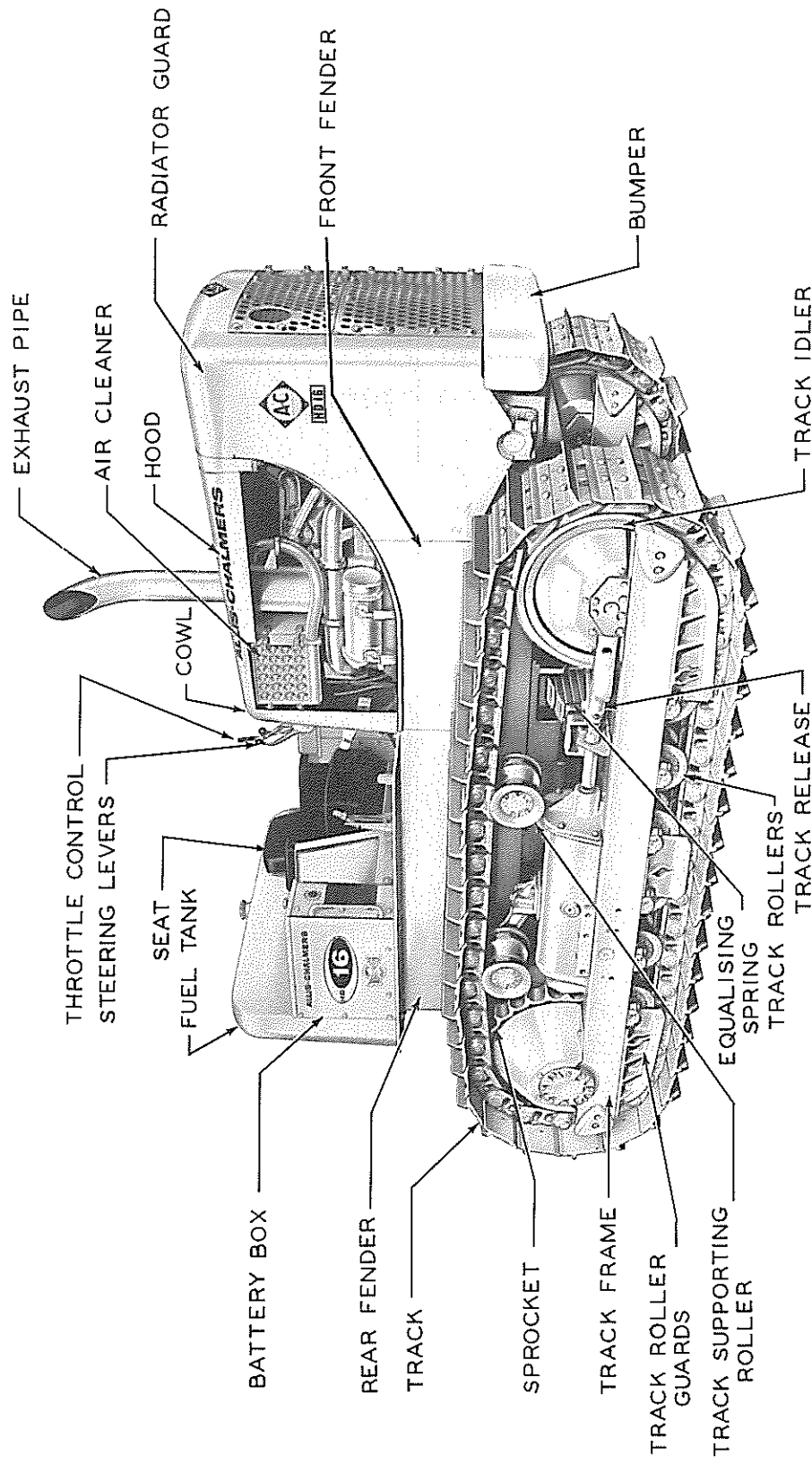
| PACKAGED NO.            | DESCRIPTION           |                                                                                                              |
|-------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------|
| 74390598<br>(Continued) | PISTON AND SLEEVE KIT |                                                                                                              |
|                         | 1                     | 74388375 PISTON                                                                                              |
|                         | 1                     | 74390175 *PIN, piston                                                                                        |
|                         | 1                     | 74390462 SLEEVE, cylinder                                                                                    |
|                         | 1                     | 74390599 RING SET, piston                                                                                    |
|                         | 1                     | 74385633 INSTRUCTION SHEET                                                                                   |
|                         |                       | *When making single replacement,<br>original pin 7437692 must be substituted<br>to maintain dynamic balance. |
| 74394971                | 1                     | OIL PUMP CONVERSION KIT (Includes "ACULOP"<br>pump, piping, and oil pan)                                     |
|                         | 1                     | 70035250 PLUG                                                                                                |
|                         | 1                     | 70667252 GASKET                                                                                              |
|                         | 1                     | 70902872 SETSCREW                                                                                            |
|                         | 2                     | 70911992 WASHER                                                                                              |
|                         | 34                    | 70912007 WASHER                                                                                              |
|                         | 4                     | 70914678 LOCKWASHER, 7/16"                                                                                   |
|                         | 2                     | 70916313 CAPSCREW, 1/2"NC x 1-3/4"                                                                           |
|                         | 8                     | 70916543 LOCKWASHER, internal tooth, 3/8"                                                                    |
|                         | 4                     | 70916871 NUT, elastic stop, 5/16"NC                                                                          |
|                         | 1                     | 70918851 PLUG, pipe, 3/4"NPT                                                                                 |
|                         | 1                     | 70919822 NIPPLE, 1/2"NPT x 3-1/4"                                                                            |
|                         | 1                     | 70921216 PLUG, 1-5/16"NF (Includes 70921214<br>O-Ring)                                                       |
|                         | 2                     | 70921569 CAPSCREW, 7/16"NC x 1-1/4"                                                                          |
|                         | 4                     | 70922064 CAPSCREW, 12 pt. hd., 1/2"NC x 1"                                                                   |
|                         | 32                    | 70922220 CAPSCREW, 12 pt. hd., 1/2"NC x 1-1/2"                                                               |
|                         | 1                     | 70922420 PLUG, pipe, csk., sq. hd., 1-1/2"NC                                                                 |
|                         | 6                     | 70923193 CAPSCREW, 3/8"NF x 1-1/4"                                                                           |
|                         | 2                     | 70924228 CAPSCREW, 3/8"NF x 1-1/2"                                                                           |
|                         | 1                     | 70924636 PLUG, brass, hex. hd., 1/2"NPT                                                                      |
|                         | 2                     | 70927044 O-RING                                                                                              |
|                         | 2                     | 70927583 CAPSCREW, 7/16"NC x 1-3/4"                                                                          |
|                         | 2                     | 70928212 NUT, 7/16"NC                                                                                        |
|                         | 1                     | 74320597 VALVE                                                                                               |
|                         | 1                     | 74362338 PLUG                                                                                                |
|                         | 1                     | 74393341 BRACKET                                                                                             |
|                         | 2                     | 74393359 GASKET                                                                                              |
|                         | 1                     | 74393362 ELBOW                                                                                               |
|                         | 1                     | 74393364 TUBE                                                                                                |
|                         | 2                     | 74393397 CAPSCREW                                                                                            |
|                         | 1                     | 74393599 BRACKET                                                                                             |
|                         | 2                     | 74393600 U-BOLT                                                                                              |
|                         | 2                     | 74393601 SADDLE                                                                                              |
|                         | 1                     | 74393973 OIL LEVEL GAUGE                                                                                     |
|                         | 1                     | 74394200 ADAPTOR                                                                                             |
|                         | 1                     | 74394957 TUBE                                                                                                |
|                         | 4                     | 74395024 DOWEL                                                                                               |
|                         | 1                     | 74395053 BLOCK                                                                                               |
|                         | 1                     | 74395060 TUBE                                                                                                |
|                         | 1                     | 74395061 TUBE                                                                                                |

(Continued)



# PACKAGED PARTS

| PACKAGED NO. | DESCRIPTION                                      |
|--------------|--------------------------------------------------|
| 74394971     | OIL PUMP CONVERSION KIT (Includes "ACULOP" pump, |
| (Continued)  | piping, and oil pan)                             |
|              | 1   74395062   BRACKET                           |
|              | 1   74395235   OIL PAN                           |
|              | 1   74395803   GASKET SET                        |
|              | 1   74396041   OIL PUMP                          |
| -----        | RING SET (See PISTON AND CONNECTION ROD)         |
| -----        | SEAL KITS (See FINAL DRIVE, TRACK IDLER, TRACK   |
|              | ROLLER and TRACK SUPPORTING ROLLER)              |
| -----        | TRANSFER KIT (See PAINTING AND MARKING)          |



T-70508

MODEL HD-16DP TRACTOR

# CONVERSION TABLES

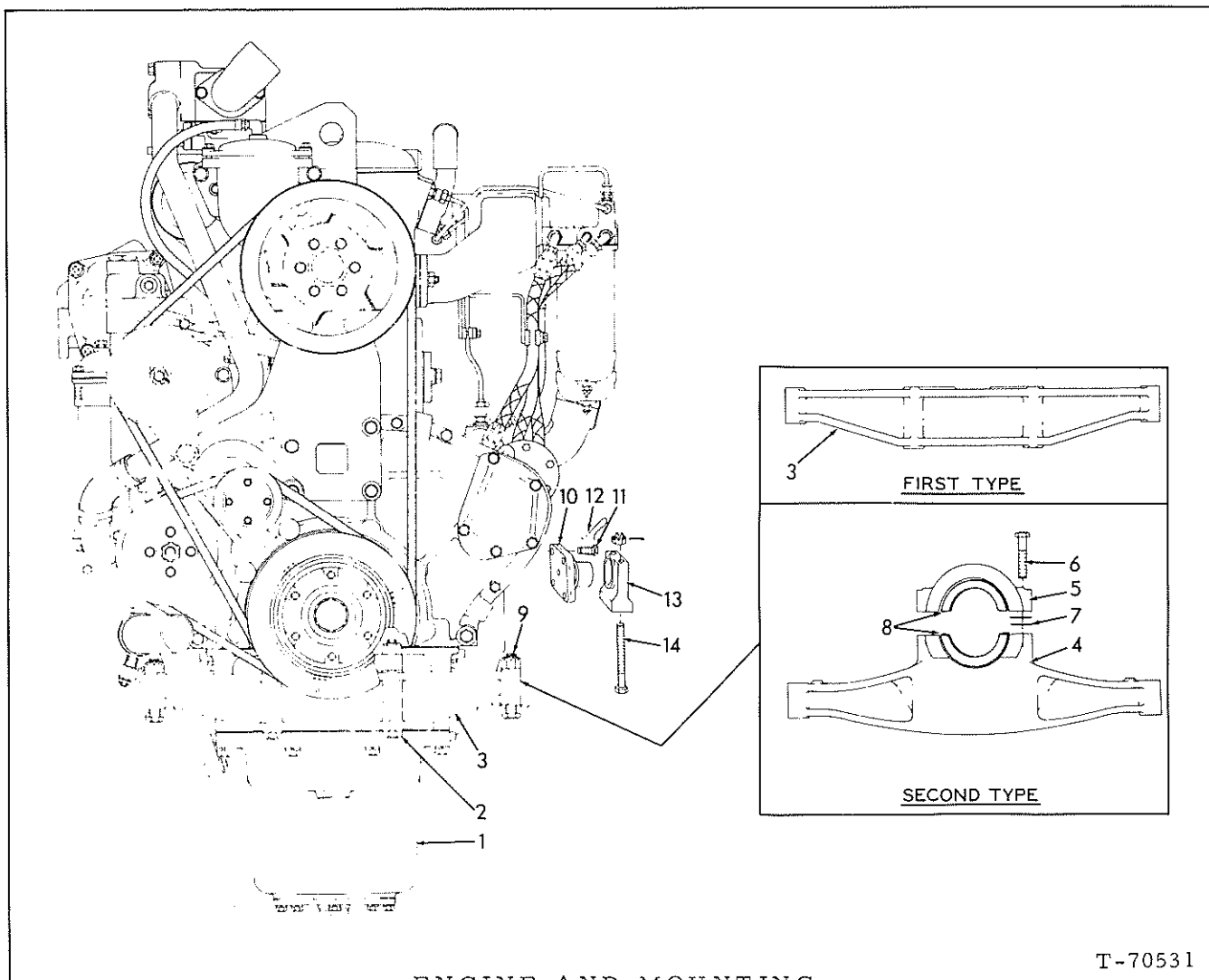
## DECIMAL AND METRIC EQUIVALENTS OF FRACTIONS OF AN INCH

| Inches    |          |              | Inches    |          |              |
|-----------|----------|--------------|-----------|----------|--------------|
| Fractions | Decimals | Milli-meters | Fractions | Decimals | Milli-meters |
| 1/64      | .015625  | .397         | 33/64     | .515625  | 13.097       |
| 1/32      | .03125   | .794         | 17/32     | .53125   | 13.494       |
| 3/64      | .046875  | 1.191        | 35/64     | .546875  | 13.891       |
| 1/16      | .0625    | 1.588        | 9/16      | .5625    | 14.288       |
| 5/64      | .078125  | 1.984        | 37/64     | .578125  | 14.684       |
| 3/32      | .09375   | 2.381        | 19/32     | .59375   | 15.081       |
| 7/64      | .109375  | 2.778        | 39/64     | .609375  | 15.478       |
| 1/8       | .125     | 3.175        | 5/8       | .625     | 15.875       |
| 9/64      | .140625  | 3.572        | 41/64     | .640625  | 16.272       |
| 5/32      | .15625   | 3.969        | 21/32     | .65625   | 16.669       |
| 11/64     | .171875  | 4.366        | 43/64     | .671875  | 17.066       |
| 3/16      | .1875    | 4.763        | 11/16     | .6875    | 17.463       |
| 13/64     | .203125  | 5.159        | 45/64     | .703125  | 17.859       |
| 7/32      | .21875   | 5.556        | 23/32     | .71875   | 18.256       |
| 15/64     | .234375  | 5.953        | 47/64     | .734375  | 18.653       |
| 1/4       | .250     | 6.350        | 3/4       | .750     | 19.050       |
| 17/64     | .265625  | 6.747        | 49/64     | .765625  | 19.447       |
| 9/32      | .28125   | 7.144        | 25/32     | .78125   | 19.844       |
| 19/64     | .296875  | 7.541        | 51/64     | .796875  | 20.241       |
| 5/16      | .3125    | 7.938        | 13/16     | .8125    | 20.638       |
| 21/64     | .328125  | 8.334        | 53/64     | .828125  | 21.034       |
| 11/32     | .34375   | 8.731        | 27/32     | .84375   | 21.431       |
| 23/64     | .359375  | 9.128        | 55/64     | .859375  | 21.828       |
| 3/8       | .375     | 9.525        | 7/8       | .875     | 22.225       |
| 25/64     | .390625  | 9.922        | 57/64     | .890625  | 22.622       |
| 13/32     | .40625   | 10.319       | 29/32     | .90625   | 23.019       |
| 27/64     | .421875  | 10.716       | 59/64     | .921875  | 23.416       |
| 7/16      | .4375    | 11.113       | 15/16     | .9375    | 23.813       |
| 29/64     | .453125  | 11.509       | 61/64     | .953125  | 24.209       |
| 15/32     | .46875   | 11.906       | 31/32     | .96875   | 24.606       |
| 31/64     | .484375  | 12.303       | 63/64     | .984375  | 25.003       |
| 1/2       | .500     | 12.700       | 1         | 1.000    | 25.400       |

## VOLUME AND WEIGHT CONVERSION CONSTANTS — U.S. TO METRIC

Pints x .4732 = Liters  
 Quarts x .9463 = Liters  
 Gallons x 3.7853 = Liters  
 Pounds x .4536 = Kilograms

# MEMO



ENGINE AND MOUNTING

T-70531

\* Tractors prior to No. 7928 excluding No. 7926  
 \*\* Tractors serial No. 7928 and up including No. 7926

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                  |
|------|----------|------|------------------------------------------------------------------------------------------------------------------------------|
|      |          | * ** |                                                                                                                              |
| 1    | 74386318 | 1    | ENGINE ASSY. (Tractors prior to #8399)                                                                                       |
|      | 74391062 | -    | ENGINE ASSY. (Tractors #8399 and up)                                                                                         |
|      | 74392212 | 1    | ENGINE ASSY. (Turbocharged)(If for first replacement on tractors prior to #8399 also order Engine Installation kit 70666349) |
|      |          |      | Non-Turbocharged                                                                                                             |
| 2    | 70099061 | 2    | CAPSCREW, engine mounting, front (5/8" NF x 5-3/4")                                                                          |
|      | 70913280 | 2    | NUT, high, slotted, 5/8" NF                                                                                                  |
|      | 70900806 | 2    | PIN, cotter, 1/8" x 1"                                                                                                       |
|      | 70070935 | 2    | CAPSCREW, engine mounting front (5/8" NC x 5")(For service replacement bracket only)                                         |
|      | 70070836 | 2    | LOCK, capscREW                                                                                                               |

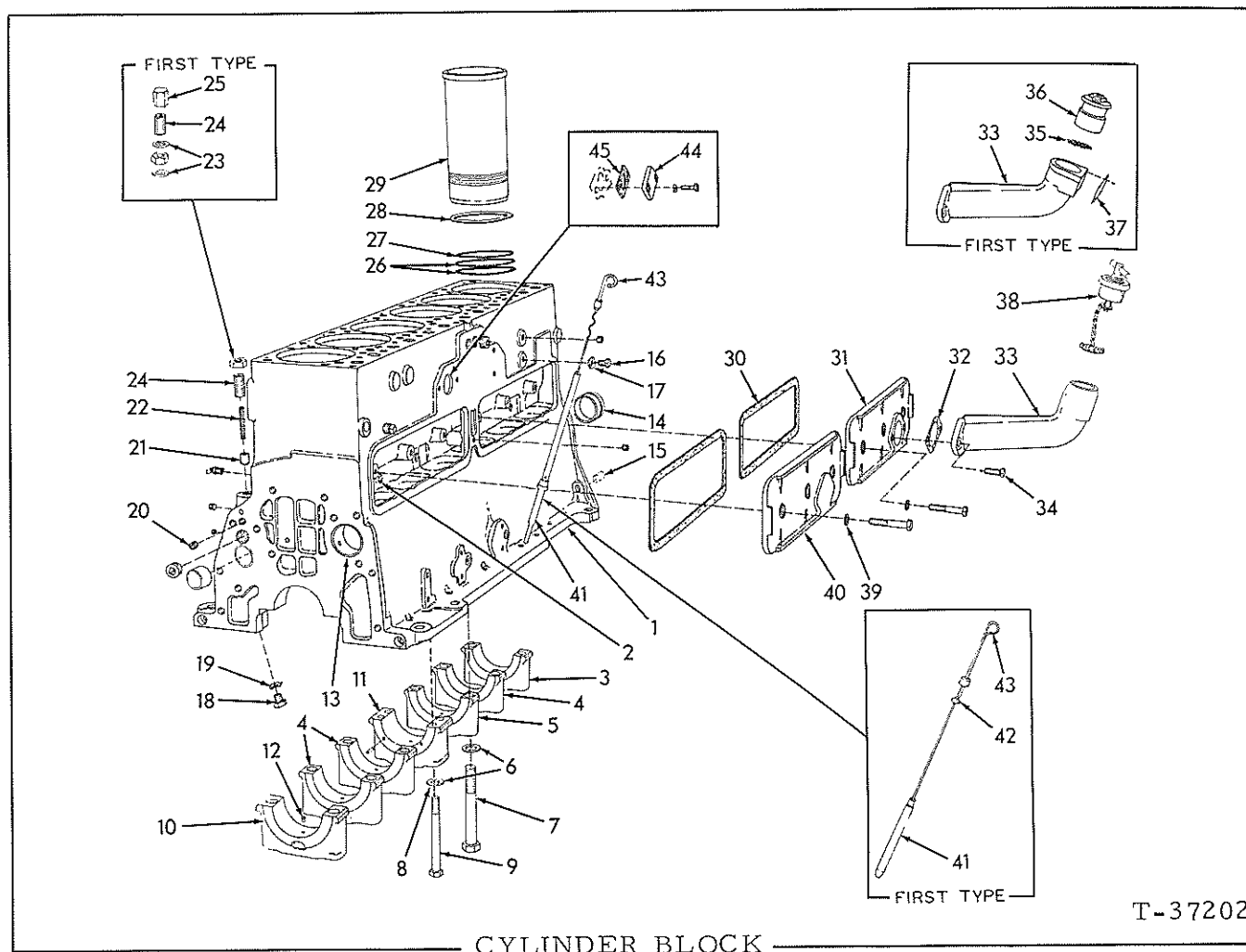
NOTE: Engines include oil filter, oil cooler, water filter and fuel filter, but do not include air cleaner, fan, generator or starter

(Continued)

(Revised May 1975)

## ENGINE AND MOUNTING (Continued)

| ITEM | PART NO. | QTY.<br>* ** | DESCRIPTION                                                                |
|------|----------|--------------|----------------------------------------------------------------------------|
| 3    | 70083778 | 1 -          | HANGER, engine supporting, front end                                       |
| 4    | 70655510 | - 1          | HANGER, engine supporting, front end (Includes item 5)                     |
| 5    | -----    | - 1          | CAP, engine hanger (Not serviced separately)                               |
| 6    | 70924694 | - 2          | SCREW, flanged, hex-hd., 1/2"NC x 3"                                       |
| 7    | 70916009 | - 14         | WASHER, shimming (1/32" thick. Use as required)                            |
| 8    | 74336491 | - 2          | LINER, engine supporting hanger                                            |
| 9    | 70099062 | 2 2          | CAPSCREW, engine hanger (drilled-end, 5/8"NF x 4")                         |
|      | 70913280 | 2 2          | NUT, high, slotted, 5/8"NF                                                 |
|      | 70900806 | 2 2          | PIN, cotter, 1/8" x 1"                                                     |
| 10   | 70670457 | 2 2          | TRUNNION, rear mounting                                                    |
| 11   | 70665891 | 8 8          | CAPSCREW, drilled-hd., 5/8"NC x 1-1/4"                                     |
| 12   | 70023633 | 4 4          | WIRE, locking, 1/16" x 12"                                                 |
| 13   | 70631773 | 2 2          | BRACKET, engine supporting, rear                                           |
| 14   | 70099435 | 4 4          | CAPSCREW, drilled-end, 3/4"NF x 6-3/4"                                     |
|      | 70910879 | 4 4          | NUT, high, slotted, 3/4"NF                                                 |
|      | 70900808 | 4 4          | PIN, cotter, 1/8" x 1-1/2"                                                 |
| 15   | 70666349 | 1 -          | INSTALLATION KIT, engine (See PACKAGED PARTS for details)(Not illustrated) |



| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                     |
|------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74396088 | 1    | BLOCK ASSEMBLY, cylinder (Includes items 2 thru 20 also hardware indented below)(For engines prior to #16-10242 also order 1 CAMSHAFT 74393399) |
|      | 70919134 | 1    | PLUG, pipe, hex-hd., 1/8"NPT                                                                                                                    |
|      | 70919840 | 4    | PLUG, pipe, hex-hd., 1/4"NPT                                                                                                                    |
|      | 70920333 | 1    | PLUG, pipe, hex-hd., 3/8"NPT                                                                                                                    |
|      | 70920416 | 1    | PLUG, pipe, hex-hd., 1/2"NPT                                                                                                                    |
|      | 70917673 | 2    | PLUG, pipe, hex-socket, 1/8"NPT                                                                                                                 |
|      | 70918850 | 3    | PLUG, pipe, hex-socket, 1/4"NPT                                                                                                                 |
|      | 70918851 | 2    | PLUG, pipe, hex-socket, 3/4"NPT                                                                                                                 |
|      | 70904224 | 2    | PLUG, pipe, hex-socket, 3/4"NPT                                                                                                                 |
|      | 70912415 | 1    | COCK, drain, 1/4"NPT                                                                                                                            |
| 2    | -----    | 4    | DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM)                                                                                     |
| 3    | 74395099 | 1    | *CAP, main bearing, rear                                                                                                                        |
| 4    | 74395103 | 3    | *CAP, main bearing, intermediate                                                                                                                |
|      |          |      | *Replacement bearing caps are semi-finished and must be linebored after installing                                                              |

(Continued)

## CYLINDER BLOCK (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                             |
|------|----------|------|---------------------------------------------------------------------------------------------------------|
|      | 74386513 | 1    | *CAP, main bearing, intermediate (No. 5)(Used prior to engine #16-06272)                                |
| 5    | 74395105 | 1    | *CAP, main bearing, intermediate (No. 5)(Effective with engine #16-06272)                               |
| 6    | 74389911 | 12   | WASHER, plain, main bearing capscrew (Engines prior to #16-10437)                                       |
| 7    | 74393397 | 12   | CAPSCREW, main bearing cap(7/8" diam.)(Order 2 per cap prior to engine #16-10437)                       |
| 8    | 74391160 | 4    | WASHER, plain, center main bearing capscrew                                                             |
| 9    | 74391307 | 4    | CAPSCREW, center main bearing cap (5/8" diam.)(Order 4 prior to engine #16-10437)                       |
| 10   | 74395101 | 1    | *CAP, main bearing, front                                                                               |
|      | 74386516 | 1    | *CAP, main bearing, center (Used prior to engine #16-06272)                                             |
| 11   | 74395108 | 1    | *CAP, main bearing, center (Effective with engine #16-06272)                                            |
|      | -----    | 4    | PIN, dowel, thrust flange (See CRANKSHAFT)                                                              |
|      | 70917554 | 7    | PIN, dowel (For 1/4" cap hole and 1/4" bearing hole)                                                    |
| 12   | 74389292 | 7    | PIN, dowel (For 5/16"cap hole and 1/4" bearing hole)                                                    |
|      | 74395109 | 7    | PIN, dowel (For 5/16"cap hole and 3/8" bearing hole)                                                    |
|      | 70919777 | 7    | PIN, dowel (For 3/8" cap hole and 3/8" bearing hole)                                                    |
| 13   | 74665306 | 1    | BEARING, camshaft, front                                                                                |
|      | 74393373 | 2    | BEARING, camshaft, intermediate                                                                         |
| 14   | 74665306 | 1    | BEARING, camshaft, rear                                                                                 |
| 15   | -----    | 2    | PIN, dowel, flywheel housing (See FLYWHEEL HOUSING)                                                     |
| 16   | 70919229 | 3    | CAPSCREW, hole plugging (1/2"NC x 1/2")                                                                 |
| 17   | 74119937 | 3    | <input type="checkbox"/> GASKET, plugging capscrew                                                      |
| 18   | 70924822 | 6    | CAPSCREW, pluggine, oil gallery (5/8"NC x 1/2")                                                         |
| 19   | 74373619 | 6    | LOCKWASHER                                                                                              |
| 20   | 74389943 | 1    | RESTRICTOR, oil by-pass                                                                                 |
| 21   | 74500230 | 1    | PISTON, oil pressure regulating valve                                                                   |
| 22   | 74660358 | 1    | SPRING, oil pressure regulating valve                                                                   |
| 23   | 74113897 | 2    | <input type="checkbox"/> GASKET, regulating valve nut (Used prior to engine #16-05422)                  |
| 24   | 74389058 | 1    | SCREW, oil pressure regulating valve                                                                    |
|      | 70910847 | 1    | NUT, jam, 3/4"NF                                                                                        |
| 25   | -----    | 1    | NUT, cap, oil pressure regulating valve (Used prior to engine #16-05422. Order SCREW 74389058)          |
| 26   | 74385485 | 6    | <input type="checkbox"/> O-RING, cylinder sleeve, lower groove (red)(12 used prior to engine #16-10346) |
| 27   | 74379178 | 6    | <input type="checkbox"/> O-RING, cylinder sleeve, upper groove (black) (Engines prior to #16-10346)     |
|      | 74393426 | 12   | O-RING, cylinder sleeve, upper groove (black and blue)(Engines #16-10346 and up)                        |

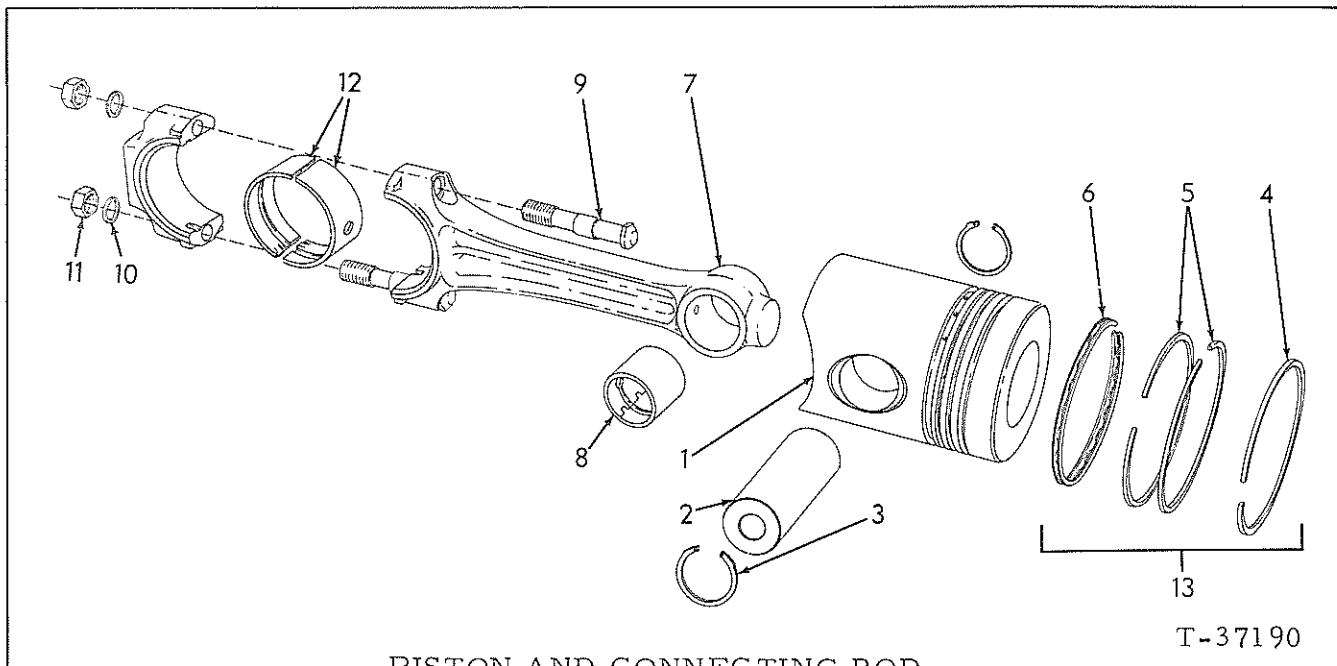
\*Replacement bearing caps are semi-finished and must be linebored after installing

(Continued)



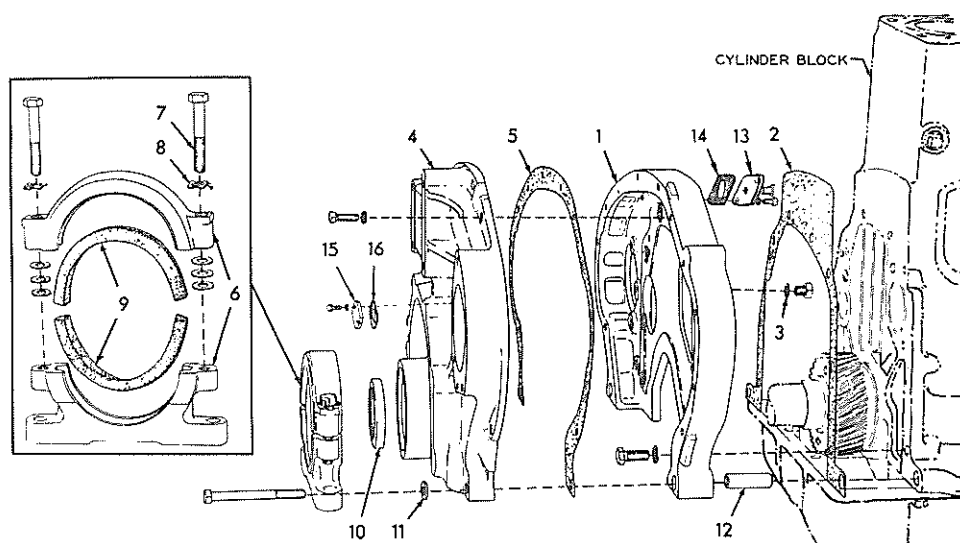
## CYLINDER BLOCK (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                    |                                           |
|------|----------|------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 28   | 74368204 | -    | SHIM, cylinder sleeve<br>(.005"thick)                                                                                          | } Use as required when<br>remaching block |
|      | 74368205 | -    | SHIM, cylinder sleeve<br>(.010"thick)                                                                                          |                                           |
|      | 74368206 | -    | SHIM, cylinder sleeve<br>(.015"thick)                                                                                          |                                           |
|      | 74369002 | -    | SHIM, cylinder sleeve<br>(.020"thick)                                                                                          |                                           |
| 29   | 74061528 | 6    | <input type="checkbox"/> SLEEVE, cylinder (Includes items 26, 27 and<br>instruction sheets)                                    |                                           |
| 30   | 74377120 | 2    | <input type="checkbox"/> GASKET, push rod cover                                                                                |                                           |
| 31   | 74393854 | 1    | COVER, push rod, rear                                                                                                          |                                           |
|      | 70916316 | 3    | CAPSCREW, 1/2"NC x 2-1/2"                                                                                                      |                                           |
| 32   | 74310257 | 1    | <input type="checkbox"/> GASKET, oil filler pipe                                                                               |                                           |
|      | -----    | 1    | ELBOW ASSEMBLY, oil filler (Includes items 35<br>thru 37)(Used prior to engine #16-05369. Order<br>ELBOW 74389040 and item 38) |                                           |
| 33   | 74394952 | 1    | ELBOW, oil filler (Effective with engine #16-05369)                                                                            |                                           |
| 34   | 74379198 | 2    | CAPSCREW, Nylok, 1/2"NC x 1-3/8"                                                                                               |                                           |
| 35   | 74335022 | 1    | STRAINER, oil filler                                                                                                           | } Used prior<br>to engine<br>#16-05369    |
| 36   | 74366461 | 1    | CAP ASSEMBLY, oil filler (Serviced<br>only as a unit)                                                                          |                                           |
| 37   | 74379141 | 1    | PLATE, oil data                                                                                                                |                                           |
|      | 70904516 | 4    | SCREW, drive #6 x 1/4"                                                                                                         |                                           |
| 38   | 74354492 | 1    | CLOSURE ASSEMBLY, oil filler (Serviced only as a<br>unit)(Effective with engine #16-05369)                                     |                                           |
| 39   | 74376749 | 7    | <input type="checkbox"/> WASHER, push rod cover capscREW                                                                       |                                           |
| 40   | 74393853 | 1    | COVER, push rod, front                                                                                                         |                                           |
|      | 70916316 | 2    | CAPSCREW, 1/2"NC x 2-1/2"                                                                                                      |                                           |
|      | 70916317 | 1    | CAPSCREW, 1/2"NC x 2-3/4"                                                                                                      |                                           |
|      | 74371359 | 1    | ADAPTER, oil level gauge (Used prior to engine<br>#16-07912)                                                                   |                                           |
| 41   | 74391378 | 1    | ADAPTER, oil level gauge (Effective with engine<br>#16-07912)                                                                  |                                           |
| 42   | 74506607 | 1    | SEAL, oil level gauge (Used prior to engine #16-07912)                                                                         |                                           |
|      | 74389547 | 1    | GAUGE ASSEMBLY, oil level (Includes item 42)<br>(Used prior to engine #16-07912)                                               |                                           |
| 43   | 74391366 | 1    | GAUGE ASSEMBLY, oil level (Effective with engine<br>#16-07912)                                                                 |                                           |
| 44   | 74331522 | 1    | PLATE, cover, cylinder block                                                                                                   | } Not used on<br>Turbocharged<br>engines  |
|      | 70919230 | 2    | CAPSCREW, 1/2"NC x 1-3/8"                                                                                                      |                                           |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                                                                               |                                           |
| 45   | 74310257 | 1    | GASKET, cover plate                                                                                                            |                                           |



PISTON AND CONNECTING ROD

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                           |
|------|----------|------|-----------------------------------------------------------------------------------------------------------------------|
|      | 74386419 | 6    | PISTON (Used prior to engine #16-07347. Order 74062037                                                                |
| 1    | 74062037 | 6    | PISTON (Includes items 2, 3, and 13)(Effective with engine #16-07347)                                                 |
| 2    | 74376792 | 6    | PIN, piston (1"hole)(Used prior to engine #16-10662) (Can use 74390175 in sets of six)                                |
|      | 74390175 | 6    | <input type="checkbox"/> PIN, piston (3/4" hole)(Effective with engine #16-10662)                                     |
| 3    | 74253749 | 12   | <input type="checkbox"/> RETAINER, piston pin                                                                         |
| 4    | -----    | 6    | RING, compression (top groove)                                                                                        |
| 5    | -----    | 12   | RING, compression (2nd and 3rd grooves)                                                                               |
| 6    | -----    | 6    | RING, oil control (4th groove)                                                                                        |
|      | -----    | 6    | ROD ASSEMBLY, connecting (Includes items 8 thru 11)(Engine #16-10379)(Order Rod 74394058)                             |
| 7    | 74394058 | 6    | ROD ASSEMBLY, connecting (Includes items 8 and 9)(Engine #16-10379 and up)                                            |
| 8    | 74376986 | 6    | BUSHING, connecting rod                                                                                               |
|      | 74376804 | 12   | BOLT, connecting rod (4-1/8" long)(Used prior to engine #16-07432)                                                    |
| 9    | 74388142 | 12   | BOLT, connecting rod (4-1/4" long)(Effective with engine #16-07432 thru #16-10378)                                    |
|      | 74392024 | 12   | CAPSCREW, connecting rod (Engine #16-10379 and up)                                                                    |
| 10   | 74388146 | 12   | WASHER, connecting rod bolt (Effective with engine #16-07432)                                                         |
| 11   | 74390011 | 12   | NUT, connecting rod bolt                                                                                              |
|      | 74394172 | 12   | BEARING, connecting rod (standard size)                                                                               |
|      | 74394221 | 12   | BEARING, connecting rod (.010" undersize)                                                                             |
| 12   | 74394222 | 12   | BEARING, connecting rod (.020" undersize)                                                                             |
|      | 74394223 | 12   | BEARING, connecting rod (.030" undersize)                                                                             |
|      | 74394224 | 12   | BEARING, connecting rod (.040" undersize)                                                                             |
|      | 74388359 | 6    | RING SET (Consists of items 4 thru 6)(For stamped 74386419)                                                           |
| 13   | 74394053 | 6    | <input type="checkbox"/> RING SET (Consists of items 4 thru 6)(For stamped 74391487, 74391959, 74393043, or 74393303) |



T-13103

# TIMING GEAR HOUSING

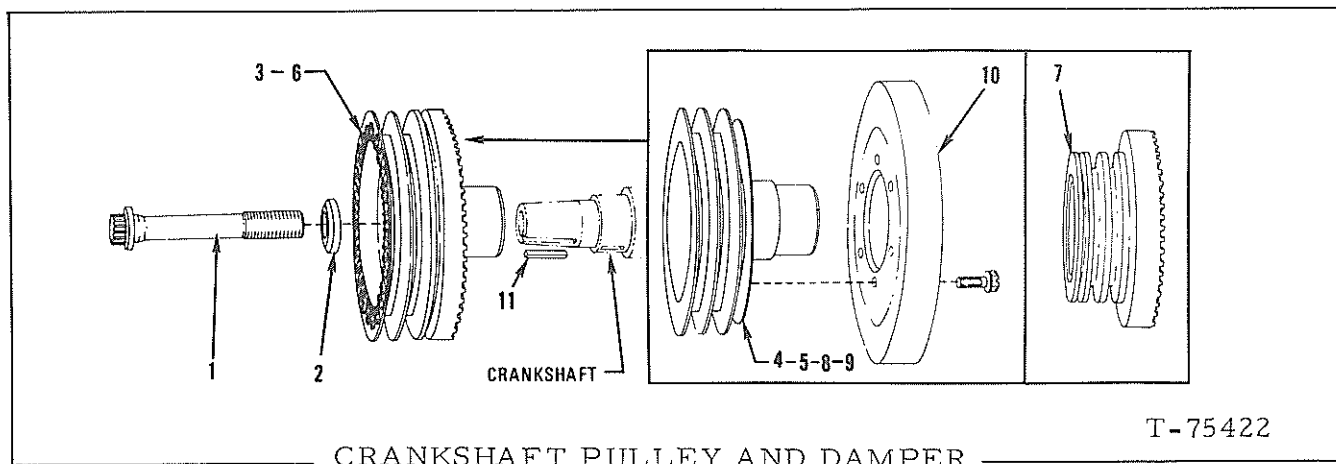
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                       |
|------|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74389784 | 1    | HOUSING                                                                                                                                           |
|      | 70916311 | 8    | CAPSCREW, 1/2"NC x 1-1/4"                                                                                                                         |
|      | 70904208 | 8    | LOCKWASHER, 1/2"                                                                                                                                  |
| 2    | 74660492 | 1    | <input type="checkbox"/> GASKET, gear housing                                                                                                     |
| 3    | 74119937 | 1    | <input type="checkbox"/> GASKET, plugging capscrew                                                                                                |
|      | 70919229 | 1    | CAPSCREW, 1/2"NC x 1/2"                                                                                                                           |
| 4    | 74393552 | 1    | COVER, timing gear housing (Engines prior to #16-09857)                                                                                           |
|      | 74391911 | 1    | COVER, timing gear housing (Engines #16-09857 and up)                                                                                             |
|      | 70916321 | 2    | CAPSCREW, 1/2"NC x 4-1/2"                                                                                                                         |
|      | 70919224 | 7    | CAPSCREW, 3/8"NC x 1-1/8"                                                                                                                         |
|      | 70904206 | 7    | LOCKWASHER, 3/8"                                                                                                                                  |
| 5    | 74376609 | 1    | <input type="checkbox"/> GASKET, gear housing cover                                                                                               |
| 6    | 74390503 | 1    | BRACKET, engine mounting (Includes cap)(When making first replacement, also order 2 each CAPSCREW 70922510, CAPSCREW 70070935, and LOCK 70070836) |
|      | 70916009 | 10   | WASHER, plain (1/32"thick. Use as req'd)                                                                                                          |
|      | 74254891 | 2    | CAPSCREW, 1/2"NC x 2-1/2" (Original equipment)                                                                                                    |
| 7    | 70922510 | 2    | CAPSCREW, 1/2"NC x 2-3/4" (Service replacement)                                                                                                   |
| 8    | 74252682 | 2    | LOCKWASHER                                                                                                                                        |
| 9    | 74336491 | 2    | LINER, engine mounting bracket                                                                                                                    |
| 10   | 74028922 | 1    | SEAL, oil, crankshaft                                                                                                                             |
| 11   | 74371445 | 2    | WASHER, plain, housing cover capscrew (1/2"hole)                                                                                                  |
| 12   | 74371444 | 2    | DOWEL, hollow, gear housing                                                                                                                       |

Used prior to tractor #7928, excluding #7926

(Continued)

## TIMING GEAR HOUSING (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                   |                                           |
|------|----------|------|-------------------------------|-------------------------------------------|
| 13   | 74390837 | 1    | COVER, gear housing           | } Engines<br>#16-09529<br>and up          |
|      | 70920333 | 1    | PLUG, pipe, hex-hd., 3/8"NPT  |                                           |
|      | 70915408 | 2    | CAPSCREW, 3/8"NC x 3/8"       |                                           |
|      | 70904206 | 2    | LOCKWASHER, 3/8"              |                                           |
| 14   | 74371027 | 1    | □GASKET, housing cover        | } Not original<br>equipment<br>See item 4 |
| 15   | 74392149 | 1    | COVER, hour meter hole        |                                           |
|      | 74391914 | 2    | SCREW (Nylon strip-lock)      |                                           |
|      | 70904204 | 2    | LOCKWASHER, 1/4"              |                                           |
| 16   | 74392150 | 1    | GASKET, hour meter hole cover |                                           |

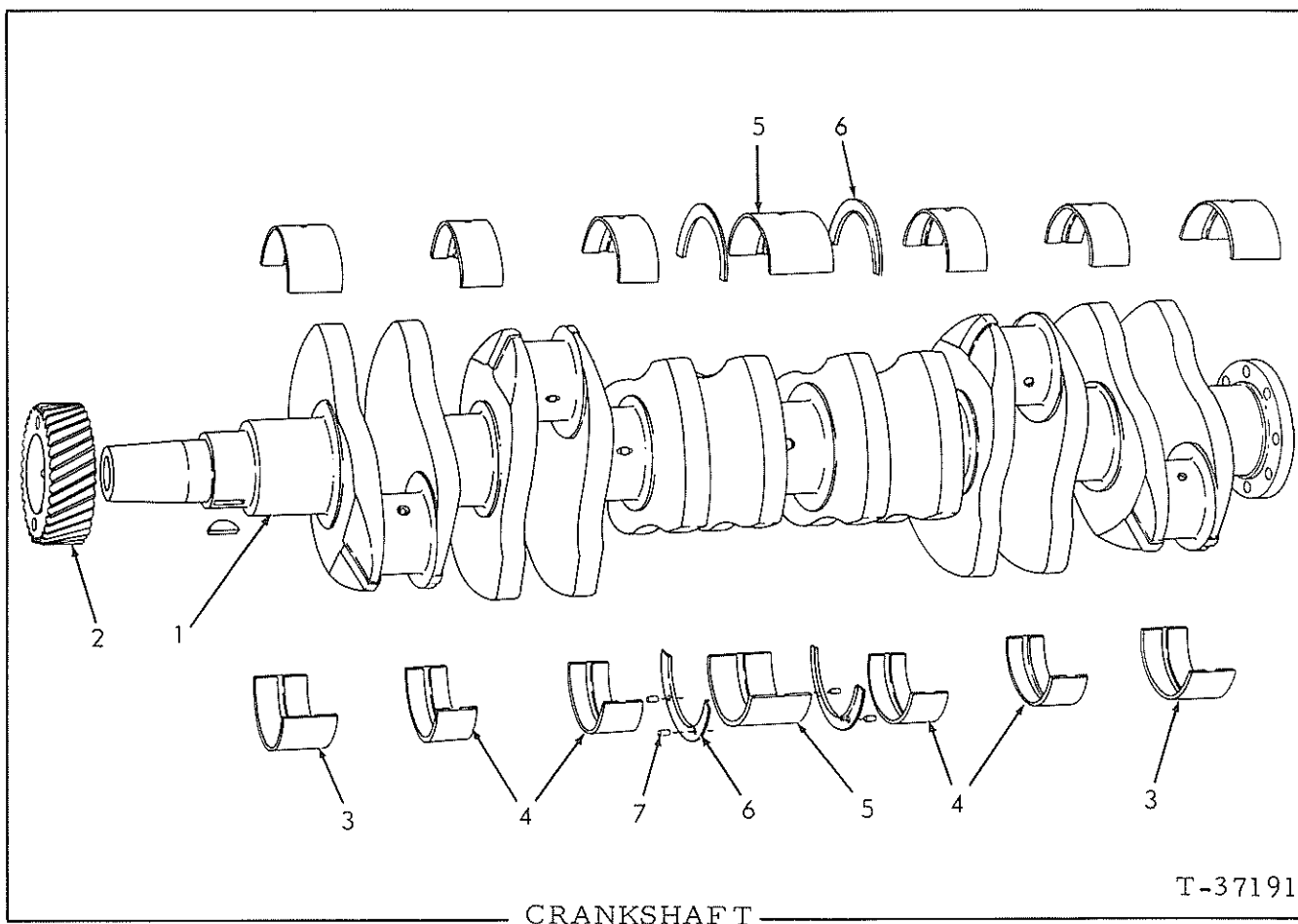


| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                                                                                                                                                                                                |
|------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74388254 |      | CAPSCREW, crankshaft pulley (1-1/4"NF x 2-1/2")<br>(Used prior to engine #16-08877)                                                                                                                                                                                                                                        |
|      | 74393443 |      | CAPSCREW, crankshaft pulley (3/4"NC x 7-1/4")<br>(Effective with engine #16-08877)(If for replacement also order 1 WASHER 74393436)                                                                                                                                                                                        |
| 2    | 74371503 |      | WASHER, crankshaft pulley bolt (1-1/4" hole)(Used prior to engine #16-08877)                                                                                                                                                                                                                                               |
|      | 74393436 |      | WASHER, crankshaft pulley bolt (3/4" hole)(Effective with engine #16-08877)                                                                                                                                                                                                                                                |
| 3    | -----    |      | PULLEY, crankshaft (Includes integral damper; also grooves for 11/16" water pump drive belt)(Used prior to engine #16-07405. (Order viscons damper 74395634)                                                                                                                                                               |
| 4    | -----    |      | <input type="checkbox"/> PULLEY, crankshaft (Has keyway; also groove for 1/2" water pump drive belt)(Used on engines #16-07405 thru #16-09113)(Order 74394264 or 74395631)                                                                                                                                                 |
| 5    | -----    |      | PULLEY ASSY., crankshaft (Includes locating pin; also groove for 1/2" water pump drive belt. Not keywayed)(Used on engines #16-09114 thru #16-09653) (Order 74394264 or 74395631)                                                                                                                                          |
| 6    | 74394264 |      | PULLEY, crankshaft (Original equipment)(Includes integral damper; also groove for 1/2" water pump drive belt)(Engines #16-09654 and up)(Can substitute viscons damper 74395631)                                                                                                                                            |
| 7    | -----    |      | PULLEY, crankshaft (Included integral damper; also groove for 11/16" water pump drive belt)(Used prior to June 1965. Order PULLEY 74395554 and 1 each DAMPER 74395767, PULLEY 74391539, PULLEY 74388253, CAPSCREW 74388254, BELT BRACKET 74388339, BRACKET 74388342, PLUG 70919134; 4 BOLTS 74751643 and 6 BOLTS 74391022) |
| 8    | -----    |      | PULLEY, crankshaft (Has groove for 1/2" water pump drive belt)(Used June 1965 thru March 1968) (Order 74393413)                                                                                                                                                                                                            |

(Continued)

# CRANKSHAFT PULLEY AND DAMPER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                            |
|------|----------|------|------------------------------------------------------------------------------------------------------------------------|
| 9    | 74395554 |      | PULLEY ASSY., crankshaft (Includes locating pin, also groove for 1/2" water pump drive belt)<br>(Effective April 1968) |
| 10   | 74395767 |      | <input type="checkbox"/> DAMPER, crankshaft (Effective with engine #16-07405)                                          |
|      | 74391022 |      | <input type="checkbox"/> BOLT, attaching                                                                               |
| 11   | 74362310 |      | KEY, crankshaft pulley (Used prior to engine #16-09114)                                                                |



| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                                                                                                     |
|------|----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74396002 | 1    | CRANKSHAFT ASSY. (Service replacement)(Also order 1 Gear 74395185 and 1 Key 70905127)(For engines prior to #16-09078 order 8 Capscrew 74391666)(For engines prior to #16-08877 order 1 Capscrew 74393443 and 1 Washer 74393436) |
|      | 70917673 | 6    | PLUG, pipe, hex-socket, 1/8"NPT (early units)                                                                                                                                                                                   |
| 2    | 74395185 | 1    | GEAR, crankshaft                                                                                                                                                                                                                |
|      | 70911021 | 1    | KEY, #25 woodruff, 5/16" x 1-1/2" (Engines prior to #16-4089)                                                                                                                                                                   |
|      | 70905129 | 1    | KEY, #D woodruff, 5/16" x 1-1/4" (Engines #16-4089 thru #16-08852)                                                                                                                                                              |
|      | 70905127 | 1    | KEY, #B woodruff 5/16" x 1 (For crankshaft 74396002)                                                                                                                                                                            |

(Continued)

# CRANKSHAFT (Continued)

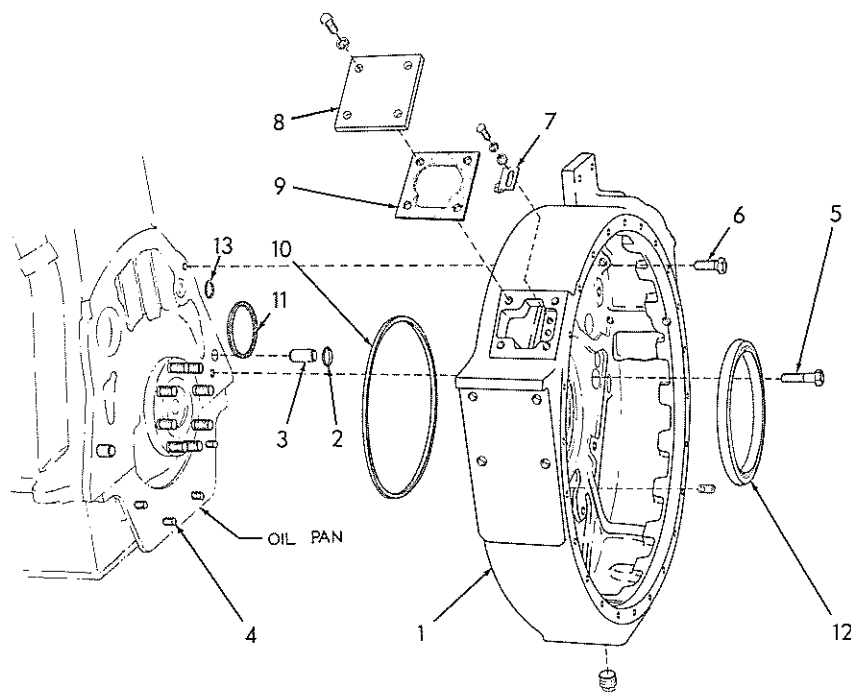
| ITEM | PART NO. | QTY. | DESCRIPTION                    |                                                                                                                          |
|------|----------|------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 3    | 74395905 | 4    | BEARING (standard size)        | 3/8" oil hole<br>(If for first<br>replacement<br>on engine<br>S/N 16-06272<br>and up order<br>1 Pin 74395109<br>per cap) |
|      | 74395908 | 4    | BEARING (.010" undersize)      |                                                                                                                          |
|      | 74395909 | 4    | BEARING (.020" undersize)      |                                                                                                                          |
|      | 74395910 | 4    | BEARING (.030" undersize)      |                                                                                                                          |
|      | 74395911 | 4    | BEARING (.040" undersize)      |                                                                                                                          |
| 4    | 74395906 | 8    | BEARING (standard size)        |                                                                                                                          |
|      | 74395912 | 8    | BEARING (.010" undersize)      |                                                                                                                          |
|      | 74395913 | 8    | BEARING (.020" undersize)      |                                                                                                                          |
|      | 74395914 | 8    | BEARING (.030" undersize)      |                                                                                                                          |
|      | 74395915 | 8    | BEARING (.040" undersize)      |                                                                                                                          |
| 5    | 74395907 | 2    | BEARING (standard size)        |                                                                                                                          |
|      | 74395916 | 2    | BEARING (.010" undersize)      |                                                                                                                          |
|      | 74395917 | 2    | BEARING (.020" undersize)      |                                                                                                                          |
|      | 74395918 | 2    | BEARING (.030" undersize)      |                                                                                                                          |
|      | 74395919 | 2    | BEARING (.040" undersize)      |                                                                                                                          |
| 6    | 74386359 | 4    | FLANGE (standard size)         |                                                                                                                          |
|      | 74386453 | 4    | FLANGE (.005" oversize)        |                                                                                                                          |
|      | 74386454 | 4    | FLANGE (.010" oversize)        |                                                                                                                          |
|      | 74386455 | 4    | FLANGE (.015" oversize)        |                                                                                                                          |
| 7    | 70919347 | 4    | PIN                            |                                                                                                                          |
| 8    | 74062039 | 1    | KIT, bearing (standard size)   | 3/8" oil hole (For<br>first replacement on<br>engine S/N16-06272<br>and up order 1 Pin<br>74395109 per cap)              |
|      | 74062040 | 1    | KIT, bearing (.010" undersize) |                                                                                                                          |
|      | 74062041 | 1    | KIT, bearing (.020" undersize) |                                                                                                                          |
|      | 74062042 | 1    | KIT, bearing (.030" undersize) |                                                                                                                          |
|      | 74062043 | 1    | KIT, bearing (.040" undersize) |                                                                                                                          |

NOTE: Each bearing kit listed above consists of bearings for complete crankshaft overhaul.

|   |          |   |                               |
|---|----------|---|-------------------------------|
| 9 | 74064489 | 1 | KIT, flange (Standard size)   |
|   | 74061490 | 1 | KIT, flange (.005" undersize) |
|   | 74061491 | 1 | KIT, flange (.010" undersize) |
|   | 74061492 | 1 | KIT, flange (.015" undersize) |

NOTE: Each flange kit listed above consists of upper and lower flanges and 4 pin 70919347.

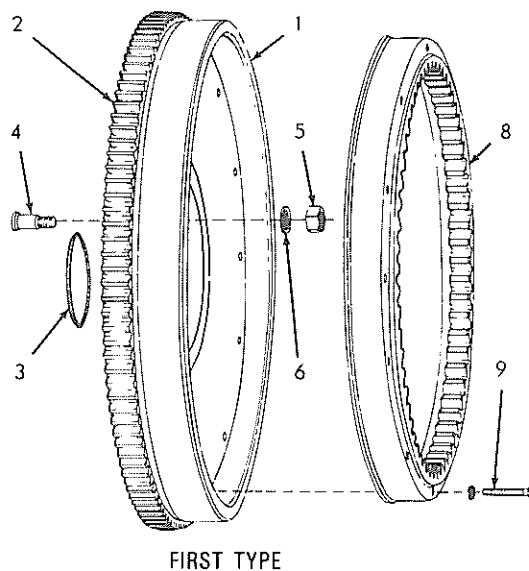
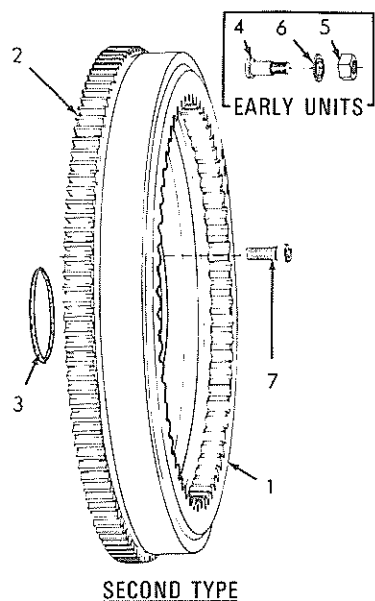




FLYWHEEL HOUSING

T-41788

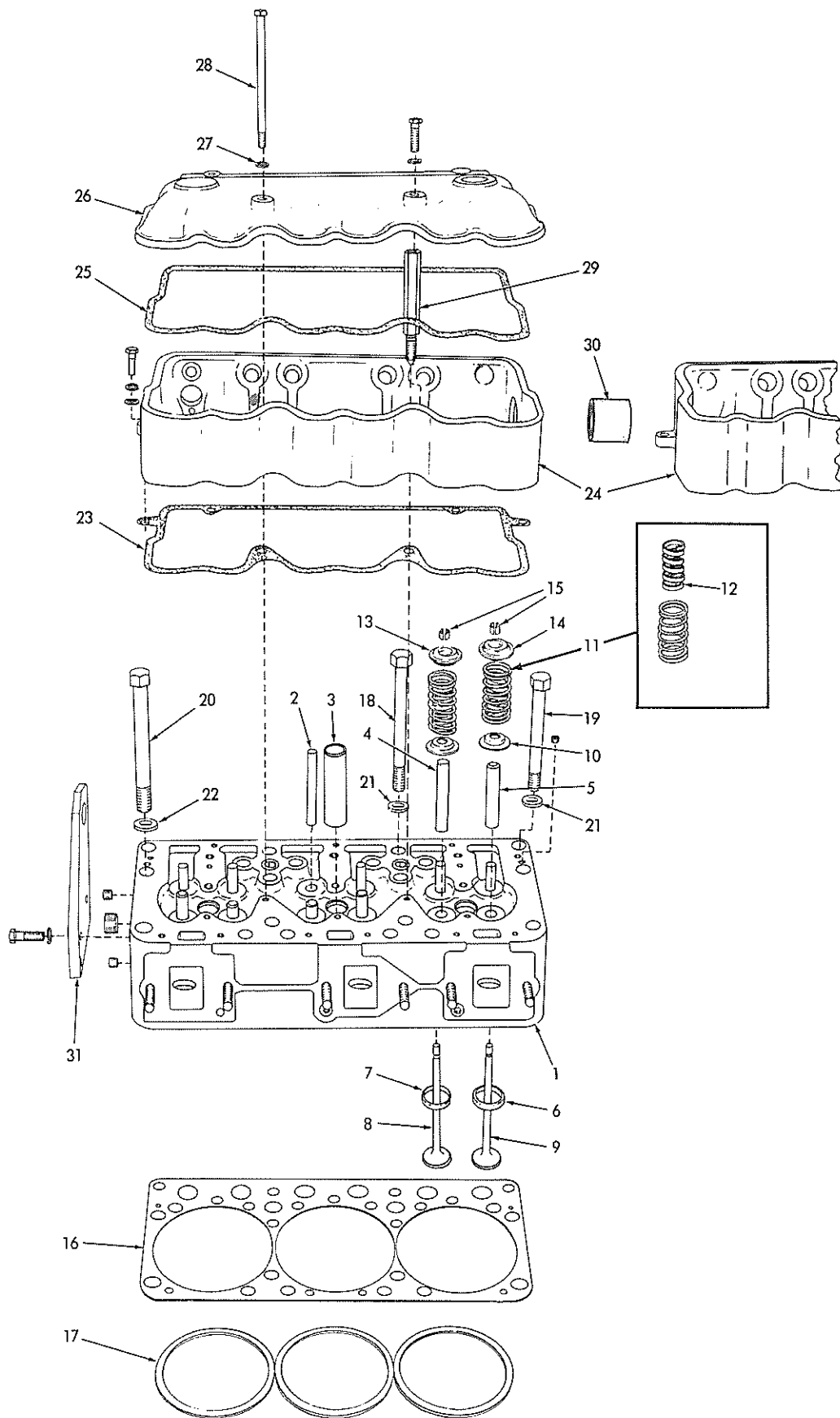
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                  |
|------|----------|------|----------------------------------------------------------------------------------------------|
| 1    | 74388551 | 1    | HOUSING, flywheel (Engines prior to #16-09034)                                               |
|      | 74393568 | 1    | HOUSING, flywheel (Engines #16-09034 and up)                                                 |
|      | 70922884 | 1    | SETSCREW, hex-socket, cup-pt., Nylok, 7/16"NC x 1/2"                                         |
| 2    | 70923810 | 2    | <input type="checkbox"/> O-RING, housing dowel                                               |
| 3    | 74373716 | 2    | DOWEL, housing to crankcase                                                                  |
| 4    | 74379198 | 4    | CAPSCREW, oil pan to housing (1/2"NC x 1-3/8", Nylok)(Engines prior to #16-09006)            |
|      | 70926717 | 4    | CAPSCREW, oil pan to housing (1/2"NC x 7/8", 12 -pt. flanged head)(Engines #16-09006 and up) |
|      | 70912333 | 4    | WASHER, plain                                                                                |
| 5    | 74255335 | 2    | BOLT, housing to crankcase (self-locking, 1/2"NC x 2")                                       |
| 6    | 74255334 | 8    | BOLT, housing to crankcase (self-locking, 1/2"NC x 1-3/8")                                   |
| 7    | 74386651 | 1    | POINTER, timing                                                                              |
|      | 70916284 | 2    | CAPSCREW, 1/4"NC 1/2"                                                                        |
|      | 70904204 | 2    | LOCKWASHER, 1/4"                                                                             |
|      | 70911114 | 2    | WASHER, plain, SAE std., 1/4"                                                                |
|      | 74386650 | 1    | COVER, timing hole                                                                           |
| 8    | 70915813 | 4    | CAPSCREW, 5/16"NC x 7/8"                                                                     |
|      | 70904205 | 4    | LOCKWASHER, 5/16"                                                                            |
|      | 74390432 | 1    | <input type="checkbox"/> GASKET, timing hole cover                                           |
| 10   | 74336897 | 1    | <input type="checkbox"/> RING, sealing, housing to crankcase (For crankshaft hole)           |
| 11   | 74255904 | 1    | <input type="checkbox"/> RING, sealing, housing to crankcase (For camshaft hole)             |
| 12   | 74395770 | 1    | SEAL, oil, crankshaft flange                                                                 |
| 13   | 74255898 | 1    | RING, sealing, housing to crankcase (For oil gallery hole)(Effective with engine #16-09034)  |



FLYWHEEL

T-41787

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                               |
|------|----------|------|-------------------------------------------------------------------------------------------|
| 1    | 74386846 | 1    | FLYWHEEL ASSY., (Includes item 2)(Used prior to engine #16-05237)                         |
|      | 74391231 | 1    | FLYWHEEL ASSY., (Includes item 2)(Used with engine #16-05237)                             |
| 2    | 74303694 | 1    | GEAR, ring                                                                                |
| 3    | 74255912 | 1    | □ O-RING, flywheel to crankshaft                                                          |
| 4    | 74389201 | 8    | BOLT, flywheel                                                                            |
| 5    | 74387026 | 8    | NUT, flywheel bolt                                                                        |
| 6    | 74391160 | 8    | □ WASHER, sealing                                                                         |
| 7    | 74391666 | 8    | CAPSCREW, flywheel (Engines #16-09078 and up)                                             |
| 8    | -----    | 1    | RING, clutch driving (Used prior to engine #16-05237)<br>(Order Flywheel Assy., 74391231) |
| 9    | 70053616 | 12   | CAPSCREW, 3/8"NC x 1-3/4"                                                                 |
|      | 70904206 | 12   | LOCKWASHER, 3/8"                                                                          |



CYLINDER HEAD (First Type)

T-37183

## CYLINDER HEAD (First type)

USAGE: Engines prior to serial No. 16-09862 including Nos. 16-10140, 10141, 10142, 10146 thru 10155

\* Engines prior to serial No. 16-08657 including Nos. 16-09019 thru 09139

\*\* Engines effective 16-08657 and up excluding Nos. 16-09019 thru 09139

| ITEM | PART NO. | QTY.<br>* ** | DESCRIPTION                                                                                    |
|------|----------|--------------|------------------------------------------------------------------------------------------------|
| 1    | -----    | 2 -          | HEAD ASSY., cylinder (Order HEAD ASSY 74391712, 6 VALVE 74390677 and 6 ROTOCOIL 74389397 )     |
|      | 74391712 | - 2          | HEAD ASSY., cylinder (Includes items 2 thru 7 and plugs indented below)                        |
|      | 70917673 | 8 8          | PLUG, pipe, hex-socket, 1/8"NPT                                                                |
|      | 70907070 | 4 -          | PLUG, pipe, ctsk-hd., 1/4"NPT (Early units only)                                               |
|      | 70918887 | - 6          | PLUG, pipe, hex-socket, 3/8"NPT (Engines #16-09622 and up)                                     |
|      | 70918851 | 8 8          | PLUG, pipe, hex-socket, 3/4"NPT                                                                |
| 2    | 74386413 | 12 12        | PIN, guide, valve bridge                                                                       |
| 3    | 74376484 | 6 6          | SLEEVE, injection nozzle                                                                       |
| 4    | 74390547 | 12 12        | GUIDE, intake valve                                                                            |
| 5    | 74390548 | 12 12        | GUIDE, exhaust valve                                                                           |
| 6    | 74386625 | 12 -         | INSERT, exhaust valve seat (standard size)                                                     |
|      | 74391713 | - 12         | INSERT, exhaust valve seat (standard size)                                                     |
|      | 74386654 | 12 -         | INSERT, exhaust valve seat (.005" oversize)                                                    |
|      | 74391714 | - 12         | INSERT, exhaust valve seat (.005" oversize)                                                    |
| 7    | 74386628 | 12 12        | INSERT, intake valve seat (standard size)                                                      |
|      | 74386653 | 12 12        | INSERT, intake valve seat (.005" oversize)                                                     |
| 8    | 74386790 | 12 12        | VALVE, intake                                                                                  |
| 9    | 74386791 | 12 -         | VALVE, exhaust (45°)                                                                           |
|      | 74390677 | - 12         | VALVE, exhaust (30°)                                                                           |
| 10   | 74389685 | 24 24        | SEAT, valve spring                                                                             |
| 11   | 74389294 | 24 24        | SPRING ASSY., valve (Includes item 12)(If for engines prior to #16-05316 also replace item 10) |
| 12   | 74389293 | 24 24        | DAMPER, valve spring                                                                           |
| 13   | 74389397 | 12 12        | ROTOCOIL ASSY., intake valve (Serviced only as a unit)                                         |
| 14   | 74389397 | 12 -         | ROTOCOIL ASSY., exhaust valve (Serviced only as a unit)                                        |
|      | -----    | - 12         | RETAINER, exhaust valve spring (Original equipment. order ROTOCOIL ASSY. 74389397 )            |
| 15   | 74376497 | 48 48        | LOCK, valve stem                                                                               |
| 16   | 74390170 | 2 2          | <input type="checkbox"/> GASKET ASSY., cylinder head (Includes item 17)                        |

(Continued)

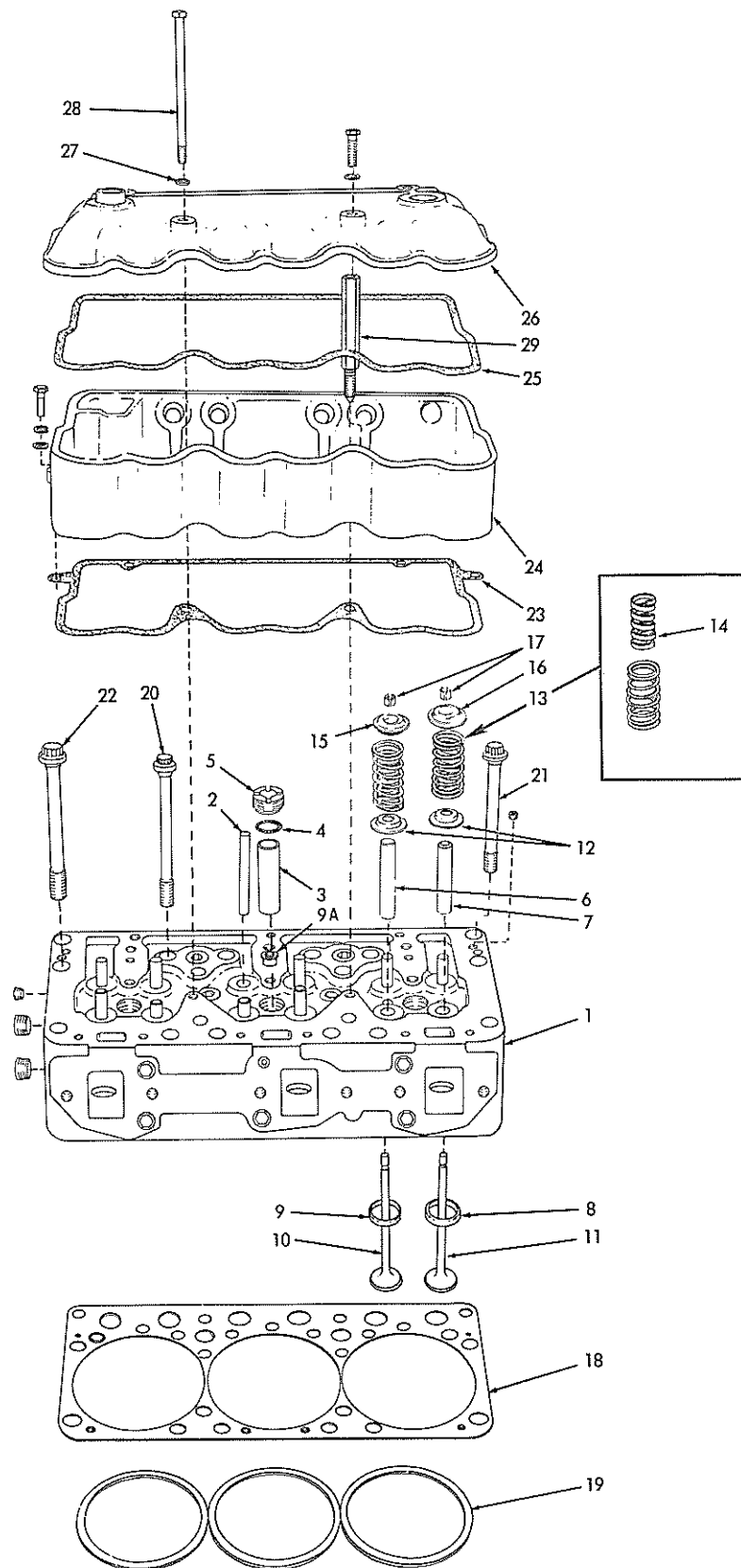
(Revised March 1972)

## CYLINDER HEAD (Continued)

| ITEM | PART NO. | QTY.<br>* ** |    | DESCRIPTION                                                                                                                      |
|------|----------|--------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| 17   | 74390043 | 6            | 6  | □GASKET, cylinder sealing                                                                                                        |
| 18   | 74391306 | 30           | 30 | CAPSCREW, cylinder head (5/8"NC x 7")                                                                                            |
| 19   | 74388521 | 2            | 2  | CAPSCREW, cylinder head (5/8"NC x 6")                                                                                            |
| 20   | 74389821 | 8            | 8  | CAPSCREW, cylinder head (3/4"NC x 7-1/4")                                                                                        |
| 21   | 74391160 | 32           | 32 | WASHER, cylinder head capscrow (5/8" hole)(Engines prior to #16-09086)                                                           |
| 22   | 74391161 | 8            | 8  | WASHER, cylinder head capscrow (3/4" hole)(Engines prior to #16-08997)                                                           |
| 23   | 74389960 | 2            | 2  | □GASKET, lower cover                                                                                                             |
| 24   | 74392059 | 1            | 1  | COVER, lower section, front (If for engines prior to #16-09700, also order PLUG 70921507 for rear cover and discard item 30)     |
|      | 74392063 | 1            | 1  |                                                                                                                                  |
|      | 70916272 | 4            | 4  | CAPSCREW, 3/8"NC x 1-1/4"                                                                                                        |
|      | 70904206 | 4            | 4  | LOCKWASHER, 3/8"                                                                                                                 |
|      | 70913544 | 4            | 4  | WASHER, plain                                                                                                                    |
| 25   | 74389961 | 2            | 2  | □GASKET, rocker cover                                                                                                            |
| 26   | 74386901 | 2            | 2  | COVER, rocker                                                                                                                    |
|      | 70914847 | 1            | 1  |                                                                                                                                  |
|      |          |              |    | CAPSCREW, 3/8"NC x 1-1/2" (rear cover only)                                                                                      |
| 27   | 74254873 | 8            | 8  | □WASHER, sealing, rocker cover capscrow                                                                                          |
| 28   | 74386421 | 7            | 7  | CAPSCREW, rocker cover (1 additional required for non-turbocharged engines)                                                      |
| 29   | 74389965 | 1            | 1  | BOLT, extension, rear lower cover (For turbocharged engines)                                                                     |
| 30   | 74386941 | 1            | 1  | COUPLING, breather, cylinder head cover (Engines prior to #16-09700)                                                             |
| 31   | 74387976 | 1            | 1  | EYE, engine lifting, rear                                                                                                        |
|      | 70916311 | 3            | 3  |                                                                                                                                  |
|      |          |              |    | CAPSCREW, 1/2"NC x 1-1/4" (For engines without turbo-charger; also engines with turbocharger effective with tractor unit #09572) |
|      | 70916313 | 3            | 3  | CAPSCREW, 1/2"NC x 1-1/2" (For engines equipped with turbocharger prior to tractor unit #09572)                                  |
|      | 70904208 | 3            | 3  | LOCKWASHER, 1/2"                                                                                                                 |

(Revised March 1972)





CYLINDER HEAD (Second type)

T-37183

(Revised March 1972)

## CYLINDER HEAD (Second type)

USAGE: Engines serial No. 16-09862 and up excluding Nos. 16-10140, 10141, 10142, 10146 thru 10155

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                              |
|------|----------|------|----------------------------------------------------------------------------------------------------------|
| 1    | 74392110 | 2    | HEAD ASSY., cylinder (Includes items 2 thru 9 and plugs indented below)(Used prior to engines #16-10156) |
|      | 74393924 | 2    | HEAD ASSY., cylinder (Includes items 2 thru 9 and plugs indented below)(Engines #16-10156 and up)        |
|      | 74255490 | 8    | PLUG, pipe, hex-socket, 1/8"NPT                                                                          |
|      | 74255491 | 1    | PLUG, pipe, hex-socket, 1/4"NPT                                                                          |
|      | 74255577 | 26   | PLUG, pipe, hex-socket, 3/4"NPT                                                                          |
| 2    | 74386413 | 12   | PIN, guide, valve bridge                                                                                 |
| 3    | 74392051 | 6    | SLEEVE, injection nozzle                                                                                 |
| 4    | 70926672 | 6    | O-RING, injection nozzle sleeve                                                                          |
| 5    | 74392052 | 6    | NUT, injection nozzle sleeve                                                                             |
| 6    | 74390547 | 12   | GUIDE, intake valve                                                                                      |
| 7    | 74390548 | 12   | GUIDE, exhaust valve                                                                                     |
| 8    | 74392053 | 12   | INSERT, exhaust valve seat (standard size)                                                               |
|      | 74392068 | 12   | INSERT, exhaust valve seat (.005" oversize)                                                              |
| 9    | 74386628 | 12   | INSERT, intake valve seat (standard size)                                                                |
|      | 74386653 | 12   | INSERT, intake valve seat (.005" oversize)                                                               |
| 9A   | 74392576 | 6    | INSERT, injection nozzle (Remove when installing replacement nozzle with .662" O.D. )                    |
| 10   | 74386790 | 12   | VALVE, intake                                                                                            |
| 11   | 74392054 | 12   | VALVE, exhaust                                                                                           |
| 12   | 74389685 | 24   | SEAT, valve spring                                                                                       |
| 13   | 74389294 | 24   | SPRING ASSY., valve (Includes item 14)                                                                   |
| 14   | 74389293 | 24   | DAMPER, valve spring                                                                                     |
| 15   | 74389397 | 12   | ROTOCOIL ASSY., intake valve (Serviced only as a unit)                                                   |
| 16   | -----    | 12   | RETAINER, exhaust valve spring (Original equipment. Order ROTOCOIL ASSY. 74389397 )                      |
| 17   | 74376497 | 48   | LOCK, valve stem                                                                                         |
| 18   | 74390170 | 2    | □ GASKET ASSY., cylinder head (Includes item 19)                                                         |
| 19   | 74390043 | 6    | □ GASKET, cylinder sealing                                                                               |
| 20   | 74391306 | 26   | SCREW, cylinder head (5/8"NC x 7")                                                                       |
| 21   | 74391307 | 2    | SCREW, cylinder head (5/8"NC x 6")                                                                       |

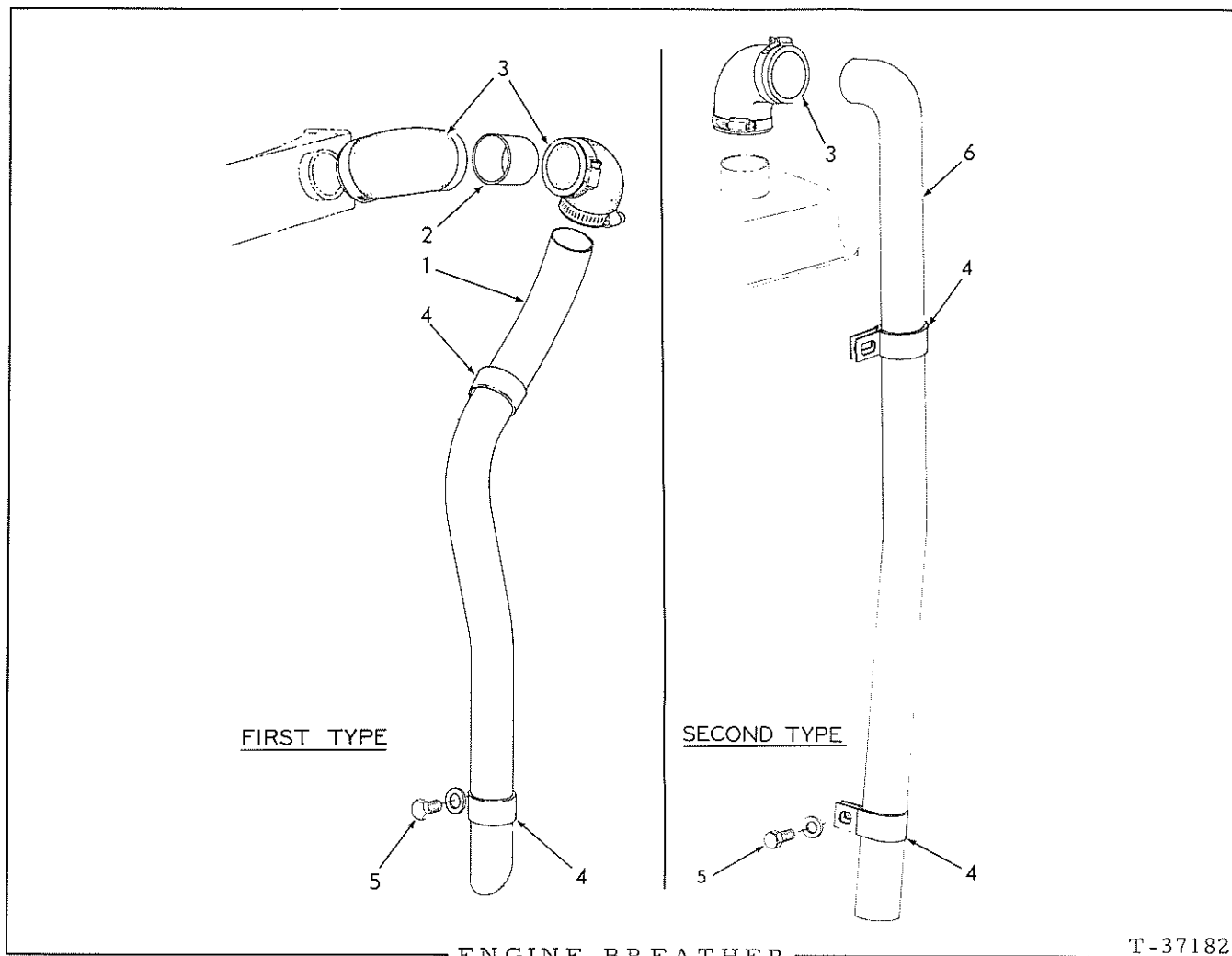
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(Revised March 1972)



## CYLINDER HEAD (Second type)(Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                |
|------|----------|------|----------------------------------------------------------------------------|
| 22   | 74393443 | 8    | SCREW, cylinder head (3/4"NC x 7-1/4")                                     |
| 23   | 74389960 | 2    | GASKET, lower cover                                                        |
| 24   | 74392059 | 1    | COVER, lower section, front                                                |
|      | 74392063 | 1    | COVER, lower section, rear (Engines prior to #16-10169)                    |
|      | 74392062 | 1    | COVER, lower section, rear (Engines #16-10169 and up)                      |
|      | 70916272 | 4    | CAPSCREW, 3/8"NC x 1-1/4"                                                  |
|      | 70904206 | 4    | LOCKWASHER, 3/8"                                                           |
|      | 70913544 | 4    | WASHER, plain                                                              |
| 25   | 74389961 | 2    | GASKET, rocker cover                                                       |
| 26   | 74386901 | 1    | COVER, rocker, front                                                       |
|      | 74386901 | 1    | COVER, rocker, rear (Engines prior to #16-10169)                           |
|      | 74387726 | 1    | COVER, rocker, rear (Engines #16-10169 and up)                             |
|      | 70914847 | 1    | CAPSCREW, 3/8"NC x 1-1/2" (rear cover only)(For turbocharged engines only) |
| 27   | 74254873 | 8    | □ WASHER, sealing, rocker cover capscREW                                   |
| 28   | 74386421 | 8    | CAPSCREW, rocker cover (1 less used on turbocharged engines)               |
| 29   | 74389965 | 1    | BOLT, extension, rear lower cover (For turbocharged engines only)          |



T-37182

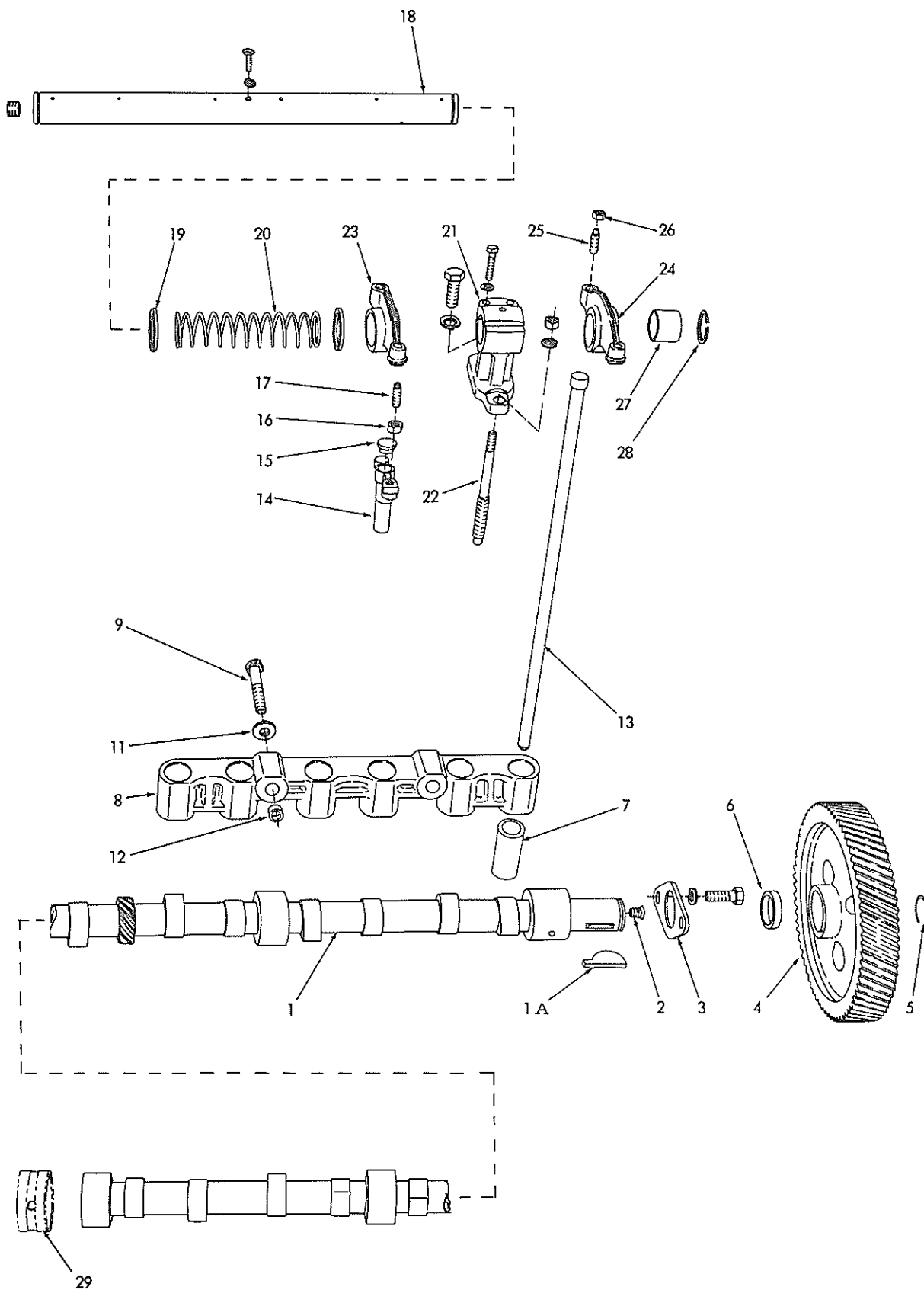
ITEM PART NO.

\* Engines prior to Serial No. 16-10169

\*\* Engines Serial No. 16-10169 and up

| ITEM | PART NO. | QTY. |    | DESCRIPTION                           |
|------|----------|------|----|---------------------------------------|
|      |          | *    | ** |                                       |
| 1    | 74387675 | 1    | -  | TUBE, breather                        |
| 2    | 74387560 | 1    | -  | TUBE, elbow connecting                |
| 3    | 74255351 | 2    | 1  | ELBOW, rubber                         |
|      | 70922198 | 4    | 2  | CLAMP, hose, 1-9/16" to 2-9/16" diam. |
| 4    | 74255361 | 2    | 2  | CLAMP, tube supporting                |
| 5    | 70921865 | 1    | 1  | CAPSCREW, Nylok, 1/2"NC x 1"          |
|      | 70910244 | 1    | 1  | WASHER, plain, SAE std., 1/2"         |
| 6    | 74390507 | -    | 1  | TUBE, breather                        |

(Revised December 1970)



VALVE OPERATING MECHANISM

T-37184

# VALVE OPERATING MECHANISM

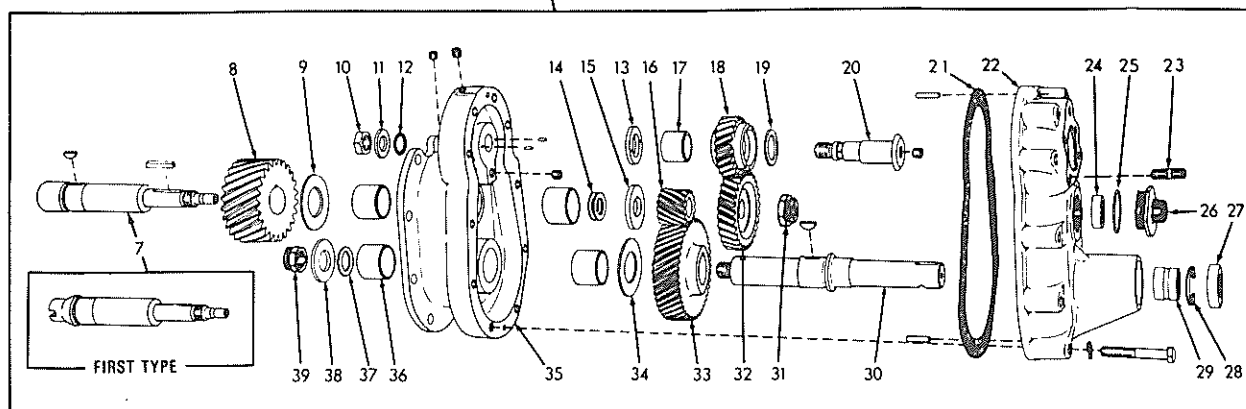
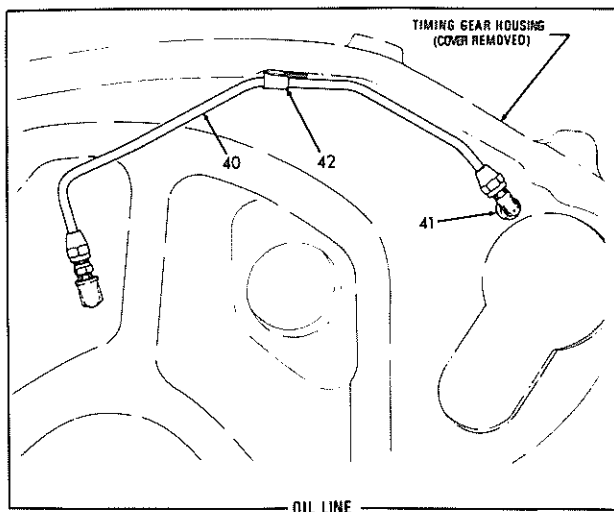
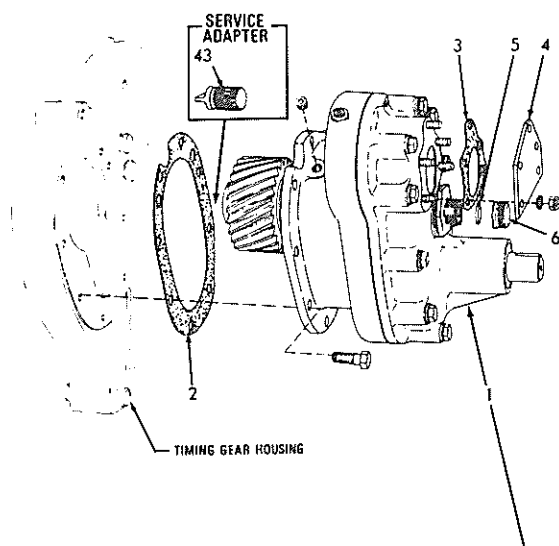
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                    |
|------|----------|------|--------------------------------------------------------------------------------|
| 1    | 74392182 | 1    | CAMSHAFT (If for engines prior to #16-09507 also order 1 ELBOW 74391885)       |
| 1A   | 70923738 | 1    | KEY, camshaft gear                                                             |
| 2    | 74001318 | 1    | PLUG, camshaft oil hole (Engines prior to #16-09591)                           |
| 3    | 74386776 | 1    | PLATE, thrust                                                                  |
|      | 70916311 | 2    | CAPSCREW, 1/2"NC x 1-1/4"                                                      |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                               |
| 4    | 74392183 | 1    | GEAR, camshaft (If for engines prior to #16-09507 also order 1 ELBOW 74391885) |
| 5    | 74254295 | 1    | RING, snap, gear retaining (Engines prior to #16-09591)                        |
| 6    | 74387469 | 1    | SPACER, camshaft gear (Used prior to engine #16-06899)                         |
| 7    | 74389645 | 12   | LIFTER, valve (Engines prior to #16-09622)                                     |
|      | 74391845 | 12   | LIFTER, valve (Engines #16-09622 and up)                                       |
| 8    | 74386787 | 1    | BRACKET, valve lifter, front                                                   |
|      | 74386788 | 1    | BRACKET, valve lifter, rear                                                    |
|      | 74391869 | 1    | BRACKET, valve lifter, front                                                   |
|      | 74391870 | 1    | BRACKET, valve lifter, rear                                                    |
| 9    | 70915969 | 4    | CAPSCREW, 1/2"NC x 3"                                                          |
| 11   | 74376277 | 4    | WASHER, valve lifter bracket capscrow                                          |
| 12   | 74303038 | 4    | DOWEL, valve lifter bracket                                                    |
| 13   | 74386414 | 12   | ROD, push (20" long)(Engines prior to #16-09622)                               |
|      | 74391849 | 12   | ROD, push (17" long)(Engines #16-09622 and up)                                 |
| 14   | 74390270 | 12   | BRIDGE ASSEMBLY, valve (Includes items 15 thru 17)                             |
| 15   | 74376538 | 12   | INSERT, valve bridge                                                           |
| 16   | 74348440 | 12   | NUT, valve bridge adjustment screw                                             |
| 17   | 74390254 | 12   | SCREW, valve bridge adjustment                                                 |
| 18   | 74390117 | 2    | SHAFT ASSEMBLY, rocker arm (Includes PLUGS indented below)                     |
|      | 70918887 | 4    | PLUG, pipe, hex-socket, 3/8"NPT                                                |
|      | 70915406 | 2    | CAPSCREW, 1/4"NC x 3/4"                                                        |
|      | 70904204 | 2    | LOCKWASHER, 1/4"                                                               |
| 19   | 74386406 | 8    | RETAINER, rocker arm                                                           |
| 20   | 74386405 | 4    | SPRING, rocker shaft                                                           |
| 21   | 74389317 | 6    | BRACKET, rocker shaft                                                          |
|      | 70916311 | 6    | CAPSCREW, 1/2"NC x 1-1/4" (attaching)                                          |
|      | 70904208 | 6    | LOCKWASHER, 1/2"                                                               |
|      | 70915807 | 12   | CAPSCREW, 5/16"NC x 1-1/4" (clamping)                                          |
|      | 70904205 | 12   | LOCKWASHER, 5/16"                                                              |

(Continued)

# VALVE OPERATING MECHANISM

| ITEM                                                                  | PART NO.   | QTY. | DESCRIPTION                                                       |
|-----------------------------------------------------------------------|------------|------|-------------------------------------------------------------------|
| 22                                                                    | 74377541   | 6    | STUD, rocker shaft bracket (Also retains injection nozzle holder) |
|                                                                       | 70910325   | 6    | NUT, 1/2"NC                                                       |
|                                                                       | 70904208   | 6    | LOCKWASHER, 1/2"                                                  |
| 23                                                                    | { 74386398 | 4    | ARM ASSEMBLY, rocker, intake valve Nos. 1,2,4,5                   |
|                                                                       | { 74386401 | 2    | ARM ASSEMBLY, rocker, exhaust valve Nos. 3,6                      |
| 24                                                                    | { 74386392 | 4    | ARM ASSEMBLY, rocker, exhaust valve Nos. 1,2,4,5                  |
|                                                                       | { 74386395 | 2    | ARM ASSEMBLY, rocker, intake valve Nos. 3,6                       |
| <u>NOTE:</u> Each Arm Assembly listed above includes items 25 thru 27 |            |      |                                                                   |
| 25                                                                    | 74336646   | 12   | SCREW, valve lash adjustment                                      |
| 26                                                                    | 74348440   | 12   | NUT, adjustment screw                                             |
| 27                                                                    | 74388428   | 12   | BUSHING, rocker arm                                               |
| 28                                                                    | 74253190   | 4    | RING, snap, rocker arm shaft                                      |
| 29                                                                    | -----      | --   | BEARING, camshaft (See CYLINDER BLOCK)                            |

(Revised March 1969)



T-39416

## ACCESSORY DRIVE

\* Engines prior to serial No. 16-09368

\*\* Engines serial No. 16-09368

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                                                       |
|------|----------|------|----|---------------------------------------------------------------------------------------------------|
|      |          | *    | ** |                                                                                                   |
| 1    | -----    | 1    | -  | DRIVE ASSEMBLY (Order DRIVE ASSEMBLY 74391441. Include item 43 if for engines prior to #16-05531) |
|      | 74391441 | -    | 1  | DRIVE ASSEMBLY (Consists of items 7 thru 39)                                                      |
|      | 70921520 | 8    | 8  | CAPSCREW, Nylok, 3/8"NC x 7/8"                                                                    |
| 2    | 74376603 | 1    | 1  | GASKET, accessory drive to gear housing                                                           |
| 3    | 74386826 | 1    | 1  | GASKET, housing cover plate                                                                       |
| 4    | -----    | 1    | 1  | PLATE, housing cover                                                                              |
|      | 70904206 | 5    | 5  | LOCKWASHER, 3/8"                                                                                  |
|      | 70910123 | 5    | 5  | NUT, 3/8"NC                                                                                       |
| 5    | 74367090 | 1    | 1  | GASKET, tachometer hole nut                                                                       |
| 6    | 74371118 | 1    | 1  | NUT, cover, tachometer hole                                                                       |

} For shipping only

(Continued)

## ACCESSORY DRIVE (Continued)

| ITEM | PART NO. | QTY.  | DESCRIPTION                                                    |
|------|----------|-------|----------------------------------------------------------------|
|      |          | * **  |                                                                |
| 7    | 74371740 | 1 -   | SHAFT, upper (Slotted end)(Used prior to engine #16-05531)     |
|      | 74388889 | 1 -   | SHAFT, upper (Splined end)(Effective with engine #16-05531)    |
|      | 70917409 | 2 -   | KEY, #9 woodruff, 3/16" x 3/4"                                 |
|      | 70923280 | 1 -   | KEY, hi-pro, 3/16" x 15/16"                                    |
|      | 74391419 | - 1   | SHAFT, upper                                                   |
|      | 70917409 | - 1   | KEY, #9 woodruff, 3/16" x 3/4"                                 |
|      | 70905850 | - 1   | KEY, straight, 3/16" x 1"                                      |
| 8    | 74389055 | 1 -   | GEAR, accessory drive                                          |
|      | 74391403 | - 1   | GEAR, accessory drive                                          |
| 9    | 74368154 | 1 -   | WASHER, thrust, upper shaft, front                             |
|      | 70917014 | 2 -   | PIN, dowel, 1/8" x 3/8"                                        |
|      | 74391412 | - 1   | WASHER, thrust, upper shaft, front                             |
| 10   | 74376671 | 1 1   | NUT, auxiliary drive gear shaft                                |
| 11   | 74389986 | 1 -   | WASHER, auxiliary drive gear shaft (1/8" thick)                |
|      | 70900703 | - 1   | WASHER, auxiliary drive gear shaft (3/16" thick)               |
| 12   | 70923574 | 1 1   | O-RING, auxiliary drive gear shaft                             |
| 13   | 74376598 | 1 1   | WASHER, thrust, auxiliary drive gear                           |
|      | 70917014 | 2 2   | PIN, dowel, 1/8" x 3/8"                                        |
| 14   | 74362726 | 2 -   | SHIM, upper shaft, end-play adjustment (laminated)             |
| 15   | 74388154 | 1 -   | WASHER, thrust, rear                                           |
|      | 74391407 | - 1   | WASHER, thrust, rear                                           |
| 16   | 74364404 | 1 1   | GEAR, upper shaft (14 teeth)                                   |
| 17   | 74376596 | 1 1   | BUSHING, auxiliary drive gear                                  |
| 18   | 74377122 | 1 1   | GEAR ASSEMBLY, auxiliary drive (Includes item 17)              |
| 19   | 74376599 | 1 -   | PLATE, thrust, auxiliary drive gear                            |
|      | 74391411 | - 1   | PLATE, thrust, auxiliary drive gear                            |
| 20   | 74376591 | 1 1   | SHAFT ASSEMBLY, auxiliary drive (Includes PLUG indented below) |
|      | 70917673 | 1 1   | PLUG, pipe, hex-socket, 1/8"NPT                                |
| 21   | 74376604 | 1 1   | GASKET, cover                                                  |
| 22   | 74386711 | 1 1   | COVER ASSY., housing (Includes item 29)                        |
|      | 70912069 | 10 10 | CAPSCREW, 3/8"NC x 2-1/2"                                      |
|      | 70904206 | 10 10 | LOCKWASHER, 3/8"                                               |
|      | 70917023 | 2 2   | PIN, dowel, 1/4" x 1"                                          |
| 23   | 74389599 | 5 5   | STUD, housing cover                                            |
| 24   | 74391019 | 1 1   | SEAL, oil, upper shaft                                         |
| 25   | 74251601 | 1 1   | GASKET, tachometer drive adapter                               |
| 26   | 74365627 | 1 1   | ADAPTER, tachometer drive                                      |
| 27   | 74386879 | 1 1   | SEAL, oil, lower shaft                                         |
| 28   | 74254742 | 1 1   | RING, snap, bushing retaining                                  |
| 29   | 74377278 | 1 1   | BUSHING, housing cover                                         |
| 30   | 74376702 | 1 -   | SHAFT, lower                                                   |
|      | 74391475 | - 1   | SHAFT, lower                                                   |
|      | 70917409 | 1 1   | KEY, #9 woodruff, 3/16" x 3/4"                                 |
| 31   | 74369751 | 1 -   | NUT, upper shaft                                               |
|      | 70900808 | 1 -   | PIN, cotter, 1/8" x 1-1/2"                                     |
|      | 70918182 | - 1   | NUT, upper shaft (self-locking)                                |
| 32   | 74376590 | 1 1   | GEAR, driving, fuel transfer pump                              |
| 33   | 74369712 | 1 -   | GEAR, lower shaft (42 teeth)                                   |
|      | 74391554 | - 1   | GEAR, lower shaft (42 teeth)                                   |

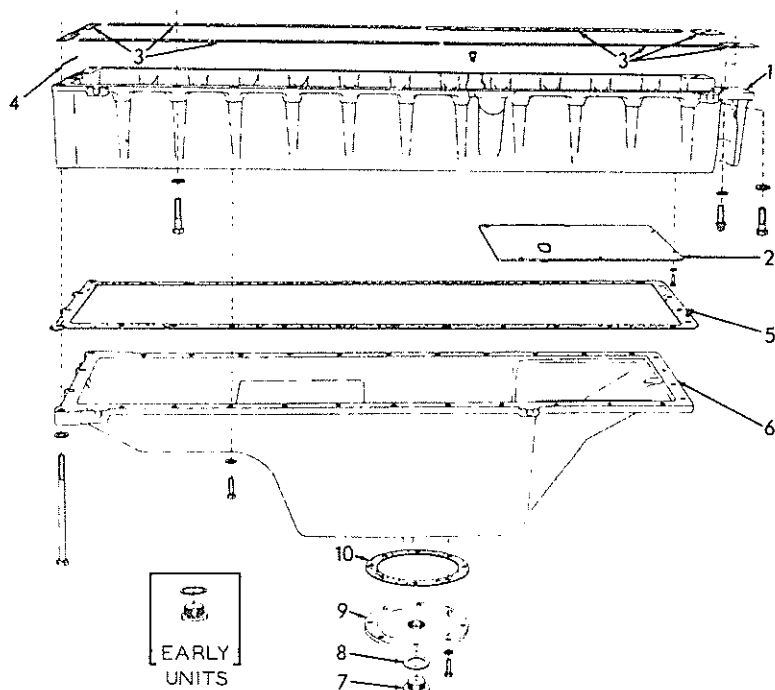
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(Revised January 1979)

# ACCESSORY DRIVE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                 |
|------|----------|------|---------------------------------------------------------------------------------------------|
|      |          | * ** |                                                                                             |
| 34   | 74368154 | 1 -  | WASHER, thrust, lower shaft, rear                                                           |
|      | 70917014 | 2 -  | PIN, dowel, 1/8" x 3/8"                                                                     |
|      | 74391412 | - 1  | WASHER, thrust, lower shaft, rear                                                           |
| 35   | 74376602 | 1 -  | HOUSING ASSEMBLY (Includes item 36)                                                         |
|      | 74391408 | - 1  | HOUSING ASSEMBLY (Includes item 36)                                                         |
|      | 70917673 | 4 4  | PLUG, pipe, hex-socket, 1/8"NPT                                                             |
| 36   | 74369746 | 4 4  | BUSHING, accessory drive housing                                                            |
| 37   | 74362726 | 1 -  | SHIM, lower shaft end-play adjustment (laminated)                                           |
| 38   | 74364166 | 1 1  | WASHER, thrust, lower shaft, front                                                          |
| 39   | 74371119 | 1 -  | NUT, lower shaft                                                                            |
|      | 70900808 | 1 -  | PIN, cotter 1/8" x 1-1/2"                                                                   |
|      | 70918182 | - 1  | NUT, lower shaft (self-locking)                                                             |
| 40   | 74376627 | 1 1  | TUBE ASSEMBLY, lubricating oil (Includes nuts)                                              |
|      | 70910141 | 1 1  | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male                                              |
|      | 70917013 | 1 1  | ELBOW, street, brass, 90°, 1/8"NPT                                                          |
| 41   | 70913475 | 1 1  | ELBOW, oil tube (Prior to Engine #16-09507)                                                 |
|      | 74391885 | - 1  | ELBOW, oil tube (has drilled orifice)(Engine #16-09507 and up)                              |
|      | 70917841 | 1 1  | NIPPLE, pipe, 1/8"NPT x 7/8"                                                                |
| 42   | 74361829 | 1 1  | CLIP, tube supporting                                                                       |
|      | 74335669 | 1 1  | CAPSCREW, drilled-hd., 1/4"NC x 1/2"                                                        |
|      | 70904204 | 1 1  | LOCKWASHER, 1/4"                                                                            |
|      | 74348691 | 1 1  | WIRE, locking, #18 x 6"                                                                     |
| 43   | 74391710 | 1 -  | ADAPTER, pump drive (Used to adapt SHAFT 74388889 as service substitute for SHAFT 74371740) |





OIL PAN

T-39379

| ITEM | PART NO. | QTY. | DESCRIPTION                                           |
|------|----------|------|-------------------------------------------------------|
| 1    | 74391646 | 1    | PAN, oil, upper section                               |
|      | 70919840 | 1    | PLUG, pipe, hex-hd., 1/4"NPT                          |
|      | 70916314 | 23   | CAPSCREW, 1/2"NC x 2"                                 |
|      | 70915987 | 1    | CAPSCREW, 1/2"NC x 1-1/2"                             |
|      | 70912333 | 26   | WASHER, plain                                         |
|      | 70922065 | 2    | SCREW, 12-pt. head, 1/2"NC x 1-1/4"                   |
| 2    | 74385796 | 1    | PLATE, oil baffle                                     |
|      | 70915343 | 6    | CAPSCREW, 1/4"NC x 5/8"                               |
|      | 70904204 | 6    | LOCKWASHER, 1/4"                                      |
| 3    | 74395803 | 1    | GASKET SET, upper oil pan                             |
| 4    | 74379070 | 1    | <input type="checkbox"/> SEAL, oil                    |
| 5    | 74385781 | 1    | GASKET SET, lower oil pan                             |
| 6    | 74389849 | 1    | PAN, oil, lower section                               |
|      | 70914847 | 26   | CAPSCREW, 3/8"NC x 1-1/2"                             |
|      | 70911423 | 26   | WASHER, plain, SAE std., 3/8"                         |
|      | 70916326 | 4    | CAPSCREW, 1/2"NC x 7-1/2"                             |
|      | 70912333 | 4    | WASHER, plain                                         |
| 7    | 70035250 | 2    | PLUG, oil drain                                       |
| 8    | 70677252 | 2    | <input type="checkbox"/> GASKET, drain plug           |
| 9    | 74371255 | 1    | PLATE, clean-out hole                                 |
|      | 70919224 | 8    | CAPSCREW, 3/8"NC x 1-1/8"                             |
|      | 70904206 | 8    | LOCKWASHER, 3/8"                                      |
| 10   | 74371289 | 1    | <input type="checkbox"/> GASKET, clean-out hole plate |

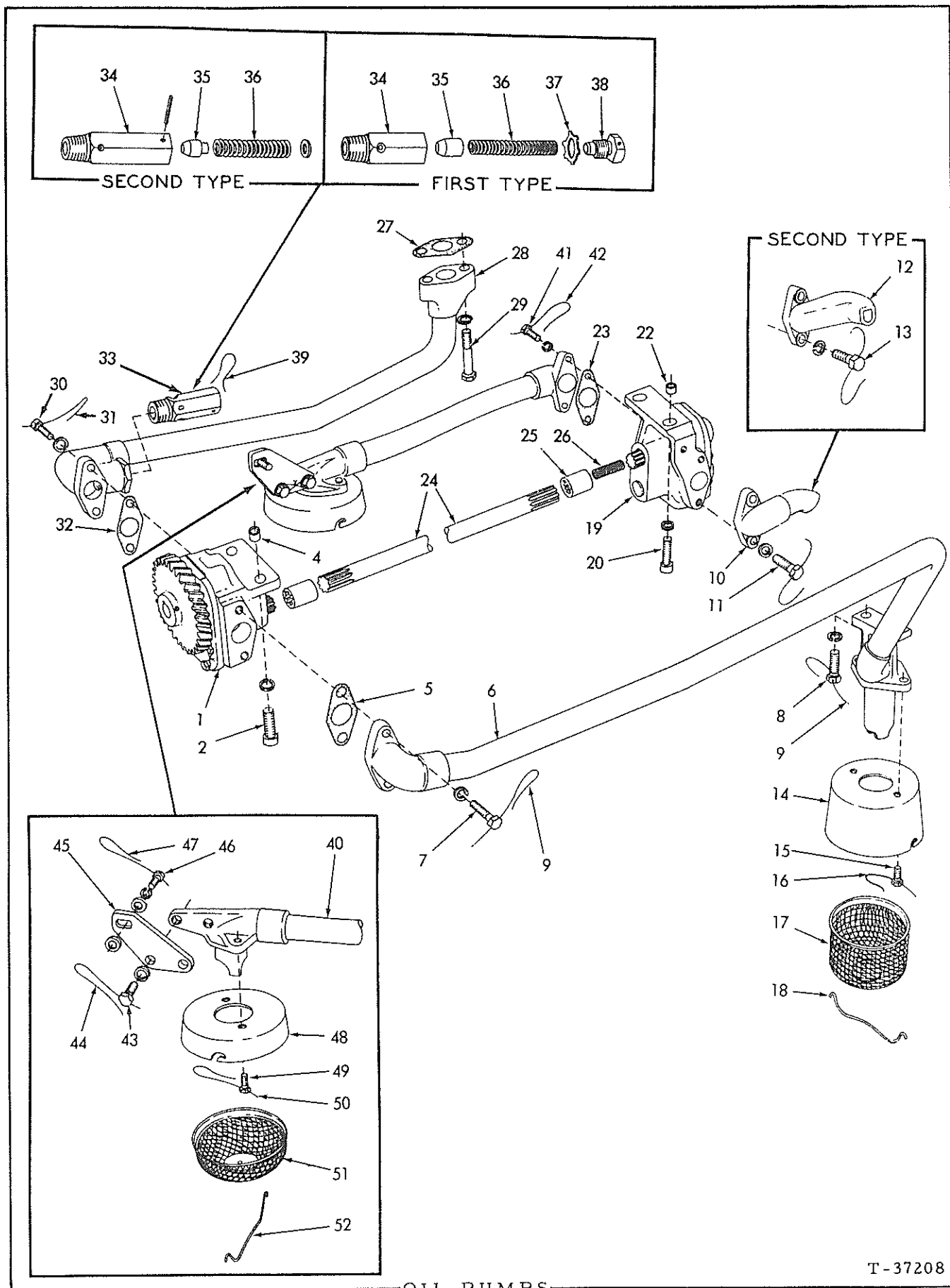
} 1 less used on engine  
#16-09003 and up

# OIL PUMPS

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                  |
|------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74390076 | 1    | PUMP ASSEMBLY, pressure (see page 40)(See NOTE below)                                                                                        |
| 2    | 70912274 | 2    | CAPSCREW, socket-hd., 7/16"NC x 1-1/2"                                                                                                       |
|      | 70904207 | 2    | LOCKWASHER, 7/16"                                                                                                                            |
| 4    | 74371253 | 2    | DOWEL, hollow, pressure pump                                                                                                                 |
| 5    | 74371345 | 1    | <input type="checkbox"/> GASKET, pressure pump suction line                                                                                  |
| 6    | 74385955 | 1    | TUBE, suction, pressure pump                                                                                                                 |
| 7    | 74378558 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"                                                                                                       |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                             |
| 8    | 74377201 | 2    | CAPSCREW, drilled-hd., 7/16"NC x 1-1/4"                                                                                                      |
|      | 70904207 | 2    | LOCKWASHER, 7/16"                                                                                                                            |
| 9    | 74509035 | 2    | WIRE, locking, #18 x 10"                                                                                                                     |
| 10   | 74390195 | 1    | TUBE, discharge, scavenging pump (Engines prior to #16-08037)                                                                                |
| 11   | 74378558 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"                                                                                                       |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                             |
|      | 74509035 | 1    | WIRE, locking #18 x 10"                                                                                                                      |
| 12   | 74388488 | 1    | TUBE, discharge, scavenging pump (Engines #16-08037 and up)                                                                                  |
| 13   | 74335610 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1"                                                                                                           |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                             |
|      | 74509035 | 1    | WIRE, locking #18 x 10"                                                                                                                      |
| 14   | 74389732 | 1    | COVER, pressure pump oil screen                                                                                                              |
| 15   | 74374129 | 2    | CAPSCREW, drilled-hd., 5/16"NC x 3/4" <span style="font-size: 2em; vertical-align: middle;">}</span> Engines prior to #16-08890              |
| 16   | 74509035 | 1    | WIRE, locking, #18 x 10"                                                                                                                     |
|      | 70915813 | 2    | CAPSCREW, 5/16"NC x 7/8" (Engines #16-08890 and up)                                                                                          |
| 17   | 74374127 | 1    | SCREEN, pressure oil pump                                                                                                                    |
| 18   | 74376294 | 1    | RETAINER, pressure oil pump screen                                                                                                           |
| 19   | 74388485 | 1    | PUMP ASSEMBLY, scavenging (See page 41)(If for engines prior to #16-08037 also order TUBE 74388488 and 2 CAPSCREWS 74335610)(See NOTE below) |
| 20   | 70912274 | 2    | CAPSCREW, socket-hd., 7/16"NC x 1-1/2"                                                                                                       |
|      | 70904207 | 2    | LOCKWASHER, 7/16"                                                                                                                            |
| 22   | 74371253 | 2    | DOWEL, hollow, scavenging pump                                                                                                               |
| 23   | 74371345 | 1    | <input type="checkbox"/> GASKET, scavenging pump suction line                                                                                |
| 24   | 74385537 | 1    | SHAFT, scavenging pump drive                                                                                                                 |
| 25   | 74385536 | 2    | COUPLING, splined, scavenging pump drive                                                                                                     |
| 26   | 74385715 | 1    | SPRING, pump drive shaft                                                                                                                     |
| 27   | 74660423 | 1    | <input type="checkbox"/> GASKET, discharge line to block                                                                                     |

NOTE: Replacements for the original equipment pressure and scavenging pump assemblies (item 1 and 19) are no longer supplied. If replacement of either pump assembly is necessary, install Oil Pump Conversion Kit 74394971. See PACKAGED PARTS

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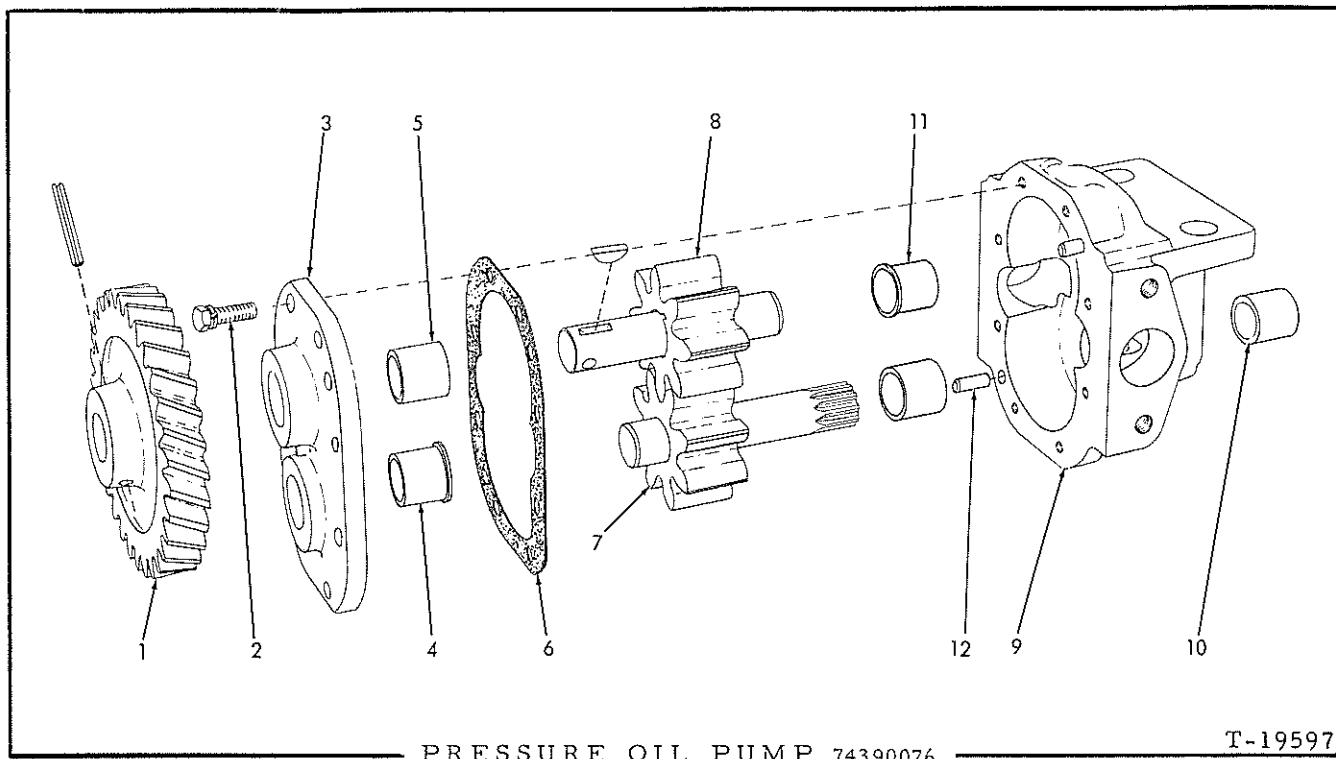


T-37208

OIL PUMPS

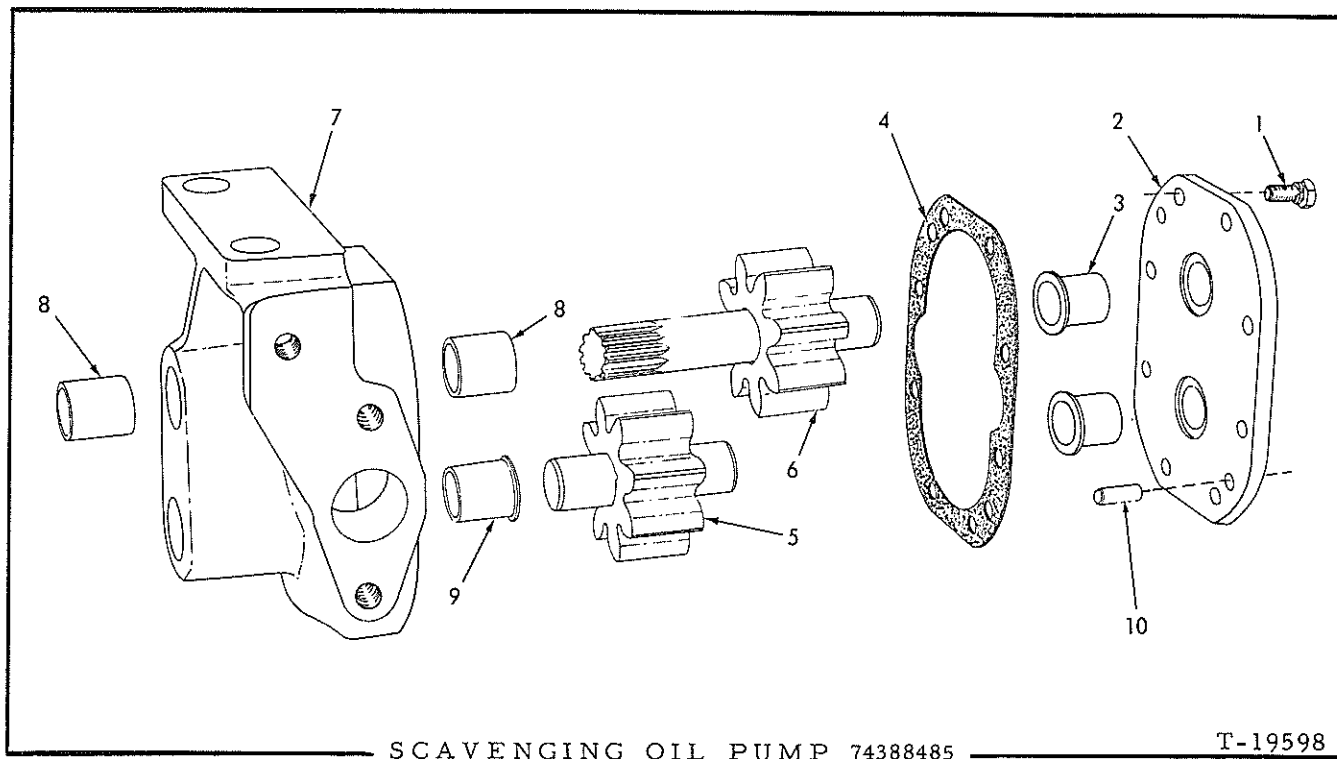
## OIL PUMPS (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                   |
|------|----------|------|-------------------------------------------------------------------------------|
| 28   | 74388133 | 1    | TUBE, pressure pump discharge                                                 |
| 29   | 70916314 | 2    | CAPSCREW, 1/2"NC x 2"                                                         |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                              |
| 30   | 74378558 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"                                        |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                              |
| 31   | 74509035 | 1    | WIRE, locking, #18 x 10"                                                      |
| 32   | 74371345 | 1    | <input type="checkbox"/> GASKET, discharge line to pump                       |
| 33   | 74354573 | 1    | VALVE ASSEMBLY, pressure relief (Consists of items 34 thru 36)                |
| 34   | -----    | 1    | BODY, pressure relief valve                                                   |
| 35   | -----    | 1    | PISTON, pressure relief valve                                                 |
| 36   | -----    | 1    | SPRING, pressure relief valve (Used prior to engine #16-07422. Order item 33) |
|      | 74354568 | 1    | SPRING, pressure relief valve (Effective with engine #16-07422)               |
|      | 70913168 | 1    | WASHER, plain                                                                 |
|      | 70916001 | 1    | PIN, spring, 3/16" x 1"                                                       |
| 37   | -----    | 1    | WASHER, locking, relief valve cap                                             |
| 38   | -----    | 1    | CAP, relief valve                                                             |
| 39   | 74509035 | 1    | WIRE, locking, pressure relief valve                                          |
| 40   | 74385961 | 1    | TUBE, suction, scavenging pump                                                |
| 41   | 74378558 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"                                        |
| 42   | 74509035 | 1    | WIRE, locking, #18 x 10"                                                      |
| 43   | 74335610 | 2    | CAPSCREW, drilled-hd., 3/8"NC x 1"                                            |
| 44   | 74348691 | 1    | WIRE, locking #18 x 6"                                                        |
|      | 70904206 | 4    | LOCKWASHER, 3/8"                                                              |
| 45   | 74385976 | 1    | BRACKET, supporting, scavenging pump suction tube                             |
| 46   | 74335600 | 1    | CAPSCREW, drilled-hd., 5/16"NC x 7/8"                                         |
|      | 70910335 | 2    | WASHER, plain, SAE std., 5/16"                                                |
|      | 70904205 | 1    | LOCKWASHER, 5/16"                                                             |
| 47   | 74348691 | 1    | WIRE, locking #18 x 6"                                                        |
| 48   | 74348684 | 1    | COVER, scavenging pump screen                                                 |
| 49   | 74374129 | 2    | CAPSCREW, drilled-hd., 5/16"NC x 3/4"                                         |
| 50   | 74509035 | 1    | WIRE, locking #18 x 10"                                                       |
| 51   | 74348683 | 1    | SCREEN, scavenging oil pump                                                   |
| 52   | 74348682 | 1    | RETAINER, scavenging oil pump screen                                          |



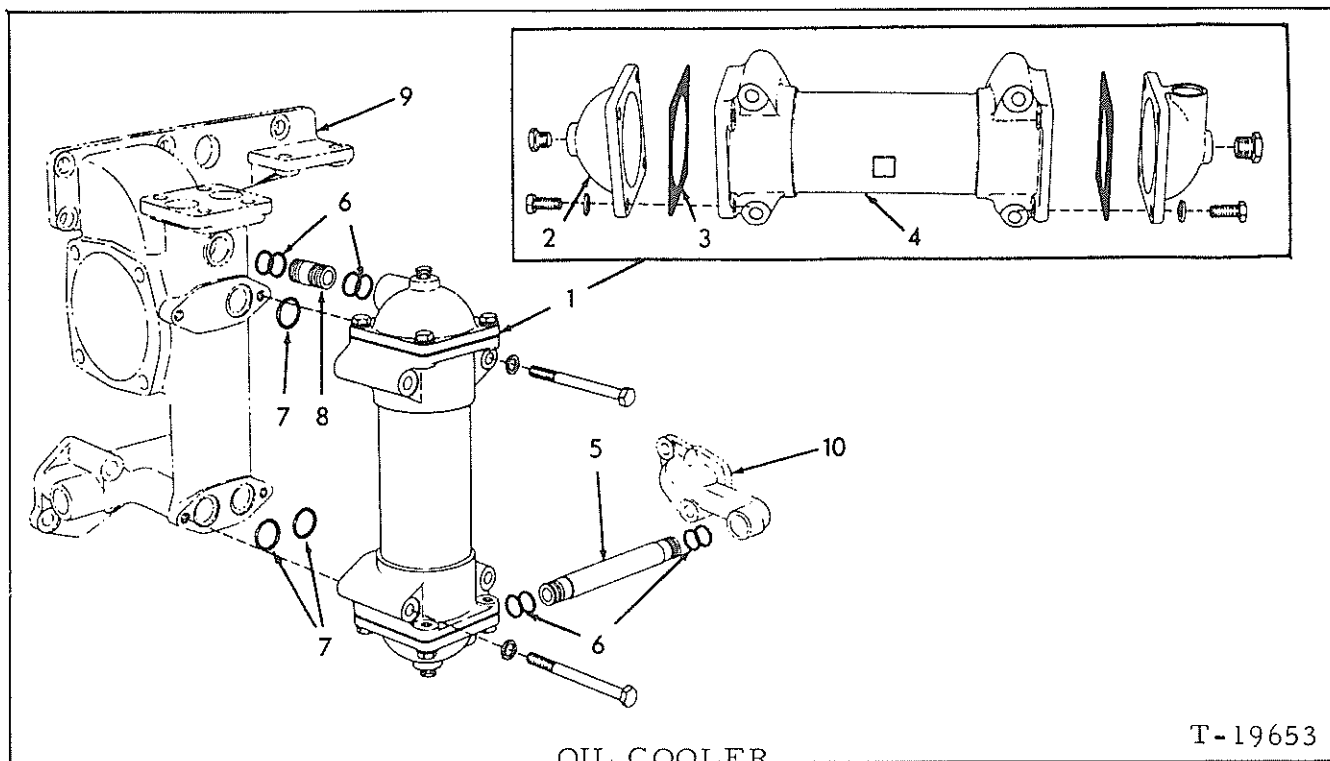
USAGE: See page 37

| ITEM | PART NO. | QTY. | DESCRIPTION                                |
|------|----------|------|--------------------------------------------|
| 1    | 74389054 | 1    | GEAR, driving                              |
|      | 70915989 | 1    | PIN, spring, 3/16" x 1-3/8"                |
|      | 70910224 | 1    | KEY, #6 woodruff, 5/32" x 5/8"             |
| 2    | 70923408 | 8    | CAPSCREW, pump cover (Includes lockwasher) |
| 3    | 74377037 | 1    | COVER ASSEMBLY (Includes items 4 and 5)    |
| 4    | 74377038 | 1    | BUSHING, pump cover (flanged)              |
| 5    | 74371270 | 1    | BUSHING, pump cover (plain)                |
| 6    | 74371300 | 1    | GASKET, cover                              |
| 7    | 74379415 | 1    | SHAFT AND GEAR ASSEMBLY, lower             |
| 8    | 74390078 | 1    | SHAFT AND GEAR ASSEMBLY, upper             |
| 9    | 74390075 | 1    | BODY ASSEMBLY (Includes items 10 thru 12)  |
| 10   | 74371270 | 2    | BUSHING, pump body (plain)                 |
| 11   | 74377039 | 1    | BUSHING, pump body (flanged)               |
| 12   | 70917555 | 2    | PIN, dowel, pump body                      |



USAGE: See page 37

| ITEM | PART NO. | QTY. | DESCRIPTION                                |
|------|----------|------|--------------------------------------------|
| 1    | 70923408 | 8    | CAPSCREW, pump cover (Includes lockwasher) |
| 2    | 74377050 | 1    | COVER ASSEMBLY (Includes item 3)           |
| 3    | 74377039 | 2    | BUSHING, pump cover                        |
| 4    | 74371300 | 1    | GASKET, pump cover                         |
| 5    | 74377054 | 1    | SHAFT AND GEAR ASSEMBLY, lower             |
| 6    | 74379610 | 1    | SHAFT AND GEAR ASSEMBLY, upper             |
| 7    | 74388486 | 1    | BODY ASSEMBLY (Includes items 8 thru 10)   |
| 8    | 74371270 | 2    | BUSHING, pump body (plain)                 |
| 9    | 74377039 | 1    | BUSHING, pump body (flanged)               |
| 10   | 70917555 | 2    | PIN, dowel, pump body                      |



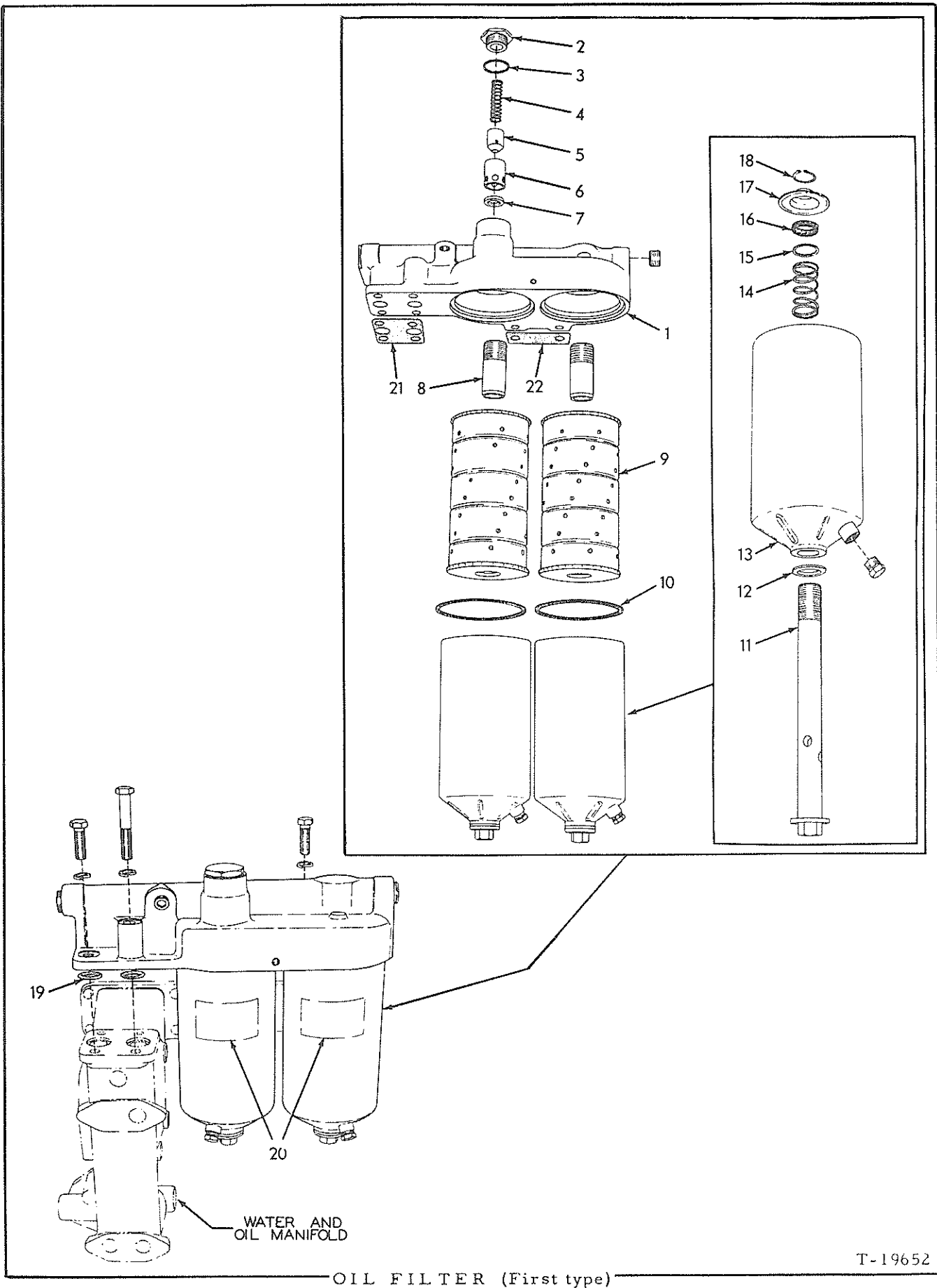
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                           |
|------|----------|------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 74388395 | 1    | EXCHANGER ASSEMBLY, heat, lubricating oil<br>(Consists of items 2 thru 4)(If for engines prior to #16-07164 also order TUBE 74389841) |
|      | 70919801 | 4    | CAPSCREW, 3/8"NC x 4"                                                                                                                 |
|      | 70904206 | 4    | LOCKWASHER, 3/8"                                                                                                                      |
| 2    | 74386642 | 1    | BONNET, heat exchanger core, lower                                                                                                    |
|      | 74386642 | 1    | BONNET, heat exchanger core, upper (Engines prior to #16-07164)                                                                       |
|      | 74388394 | 1    | GONNET, heat exchanger core, upper (Engines #16-07164 and up)                                                                         |
|      | 70919840 | 2    | PLUG, pipe, hex-hd., 1/4"NPT                                                                                                          |
|      | 70915408 | 8    | CAPSCREW, 3/8"NC x 3/4"                                                                                                               |
|      | 70904206 | 8    | LOCKWASHER, 3/8"                                                                                                                      |
| 3    | 74349984 | 2    | GASKET, heat exchanger core                                                                                                           |
| 4    | 74376991 | 1    | CORE, heat exchanger                                                                                                                  |
| 5    | 74386864 | 1    | TUBE, water, heat exchanger to by-pass tube                                                                                           |
| 6    | 70923379 | 8    | <input type="checkbox"/> O-RING, heat exchanger water tubes                                                                           |
| 7    | 74255511 | 3    | <input type="checkbox"/> O-RING, heat exchanger to manifold (1-3/16"O. D.)<br>(Used prior to engine #16-05686)                        |
|      | 74255631 | 2    | <input type="checkbox"/> O-RING, heat exchanger to manifold (1-1/2"O. D.)<br>(Effective with engine #16-05686)                        |
| 8    | 74376813 | 1    | TUBE, water, heat exchanger to manifold (1-5/8"long)<br>(Used prior to engine #16-05686)                                              |
|      | 74389129 | 1    | TUBE, water, heat exchanger to manifold<br>(1-7/16" long)(Effective with engine #16-05686)                                            |
|      | 74389841 | 1    | TUBE, water, heat exchanger to manifold<br>(1-11/16" long)(Used for special service only.<br>See item 1)                              |

(Continued)

# OIL COOLER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                              |
|------|----------|------|--------------------------------------------------------------------------|
| 9    | -----    | -    | MANIFOLD, water and oil (See WATER INLET<br>MANIFOLD AND HEAT EXCHANGER) |
| 10   | -----    | -    | FLANGE, water pump (See WATER OUTLET<br>MANIFOLD)                        |





OIL FILTER (First type)

T-19652

OIL FILTER  
(Full-flow type)

USAGE: Engines prior to serial No. 16-05788

| ITEM | PART NO. | QTY. | DESCRIPTION                                         |
|------|----------|------|-----------------------------------------------------|
| 1    | 74385543 | 1    | HEAD ASSEMBLY (Includes items 2 thru 8)             |
|      | 70918851 | 2    | PLUG, pipe, hex-socket, 3/4"NPT                     |
|      | 70918887 | 1    | PLUG, pipe, hex-socket, 3/8"NPT                     |
|      | 70915987 | 4    | CAPSCREW, 1/2"NC x 1-1/2"                           |
|      | 70915969 | 2    | CAPSCREW, 1/2"NC x 3"                               |
|      | 70904208 | 6    | LOCKWASHER, 1/2"                                    |
| 2    | 74373610 | 1    | CAP, by-pass valve                                  |
| 3    | 74253751 | 1    | GASKET, by-pass valve cap                           |
| 4    | 74335666 | 1    | SPRING, by-pass valve                               |
| 5    | 74373413 | 1    | PISTON, by-pass valve                               |
| 6    | 74373612 | 1    | SLEEVE, by-pass valve piston                        |
| 7    | 74373614 | 1    | SEAT, by-pass valve                                 |
| 8    | 74378307 | 2    | ADAPTER, center bolt                                |
| 9    | 74395889 | 2    | ELEMENT KIT (Includes item 10)                      |
| 10   | 74372325 | 2    | GASKET, filter body                                 |
| 11   | 74374735 | 2    | BOLT, center                                        |
| 12   | 74041103 | 2    | GASKET, center bolt                                 |
| 13   | 74335352 | 2    | BODY                                                |
|      | 70918951 | 2    | PLUG, pipe, hex-hd., 3/8"NPT                        |
| 14   | 74371036 | 2    | SPRING, element                                     |
| 15   | 74348268 | 2    | WASHER, element seal                                |
| 16   | 74348270 | 2    | SEAL, element                                       |
| 17   | 74348269 | 2    | ADAPTER, element                                    |
| 18   | 74253195 | 2    | RING, snap, center bolt                             |
| 19   | 74255511 | 2    | <input type="checkbox"/> O-RING, filter to manifold |
| 20   | -----    | -    | TRANSFERS (See PAINTING AND MARKING)                |

NOTE: Following gaskets are used only when late type oil filter head is installed on older units. Not original equipment.

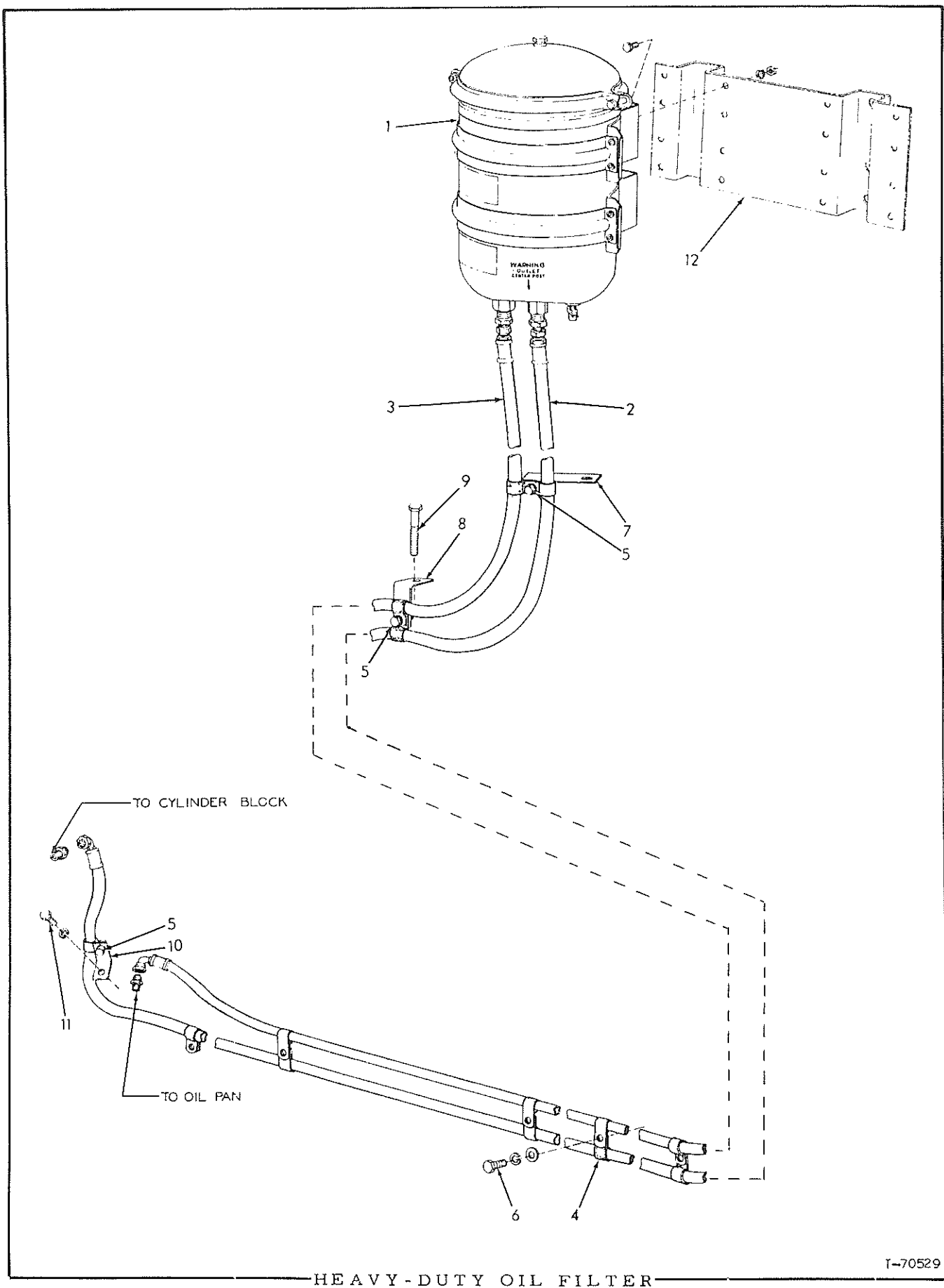
|    |          |   |                                                         |
|----|----------|---|---------------------------------------------------------|
| 21 | 74388974 | 1 | GASKET, filter head to water and oil manifold           |
| 22 | 74388975 | 1 | GASKET, shimming, filter head to water and oil manifold |



OIL FILTER  
(Full-flow type)

USAGE: Engines serial No. 16-05788 and up

| ITEM | PART NO. | QTY. | DESCRIPTION                                                     |
|------|----------|------|-----------------------------------------------------------------|
| 1    | 74391146 | 1    | HEAD ASSY. (Includes items 2 thru 6; also PLUGS indented below) |
|      | 70918888 | 3    | PLUG, pipe, hex-socket, 1"                                      |
|      | 70918697 | 1    | PLUG, pipe, hex-socket, 1-1/4"                                  |
|      | 70915987 | 2    | CAPSCREW, 1/2"NC x 1-1/2"                                       |
|      | 70916317 | 2    | CAPSCREW, 1/2"NC x 2-3/4"                                       |
|      | 70916323 | 2    | CAPSCREW, 1/2"NC x 5-1/2"                                       |
|      | 70912333 | 6    | WASHER, plain                                                   |
|      | 70904208 | 6    | LOCKWASHER, 1/2"                                                |
| 2    | 74388810 | 1    | CAP, by-pass valve                                              |
| 3    | 74388848 | 1    | GASKET, by-pass valve cap                                       |
| 4    | 74335666 | 1    | SPRING, by-pass valve                                           |
| 4A   | 74391038 | 1    | SPACER, by-pass valve                                           |
| 5    | 74373613 | 1    | PISTON, by-pass valve                                           |
| 6    | 74388809 | 1    | SLEEVE, by-pass valve piston                                    |
| 7    | 74395889 | 2    | ELEMENT KIT (Includes item 8)                                   |
| 8    | 74372325 | 2    | GASKET, filter body                                             |
| 9    | 74339021 | 2    | BODY                                                            |
|      | 70918951 | 2    | PLUG, pipe, hex-hd., 3/8"NPT                                    |
| 10   | 70916324 | 2    | CAPSCREW, 1/2"NC x 6"                                           |
| 11   | 74376749 | 2    | WASHER, sealing, body retaining capscREW                        |
| 12   | 74379268 | 2    | SPRING, element                                                 |
| 13   | 74053410 | 2    | WASHER, element seal                                            |
| 14   | 74053409 | 2    | SEAL, element                                                   |
| 15   | 74055971 | 2    | ADAPTOR, element                                                |
| 16   | 74379269 | 2    | RING, snap                                                      |
| 17   | 74255631 | 2    | O-RING, filter to manifold                                      |
| 18   | -----    | -    | TRANSFER (See PAINTING AND MARKING)                             |



HEAVY-DUTY OIL FILTER

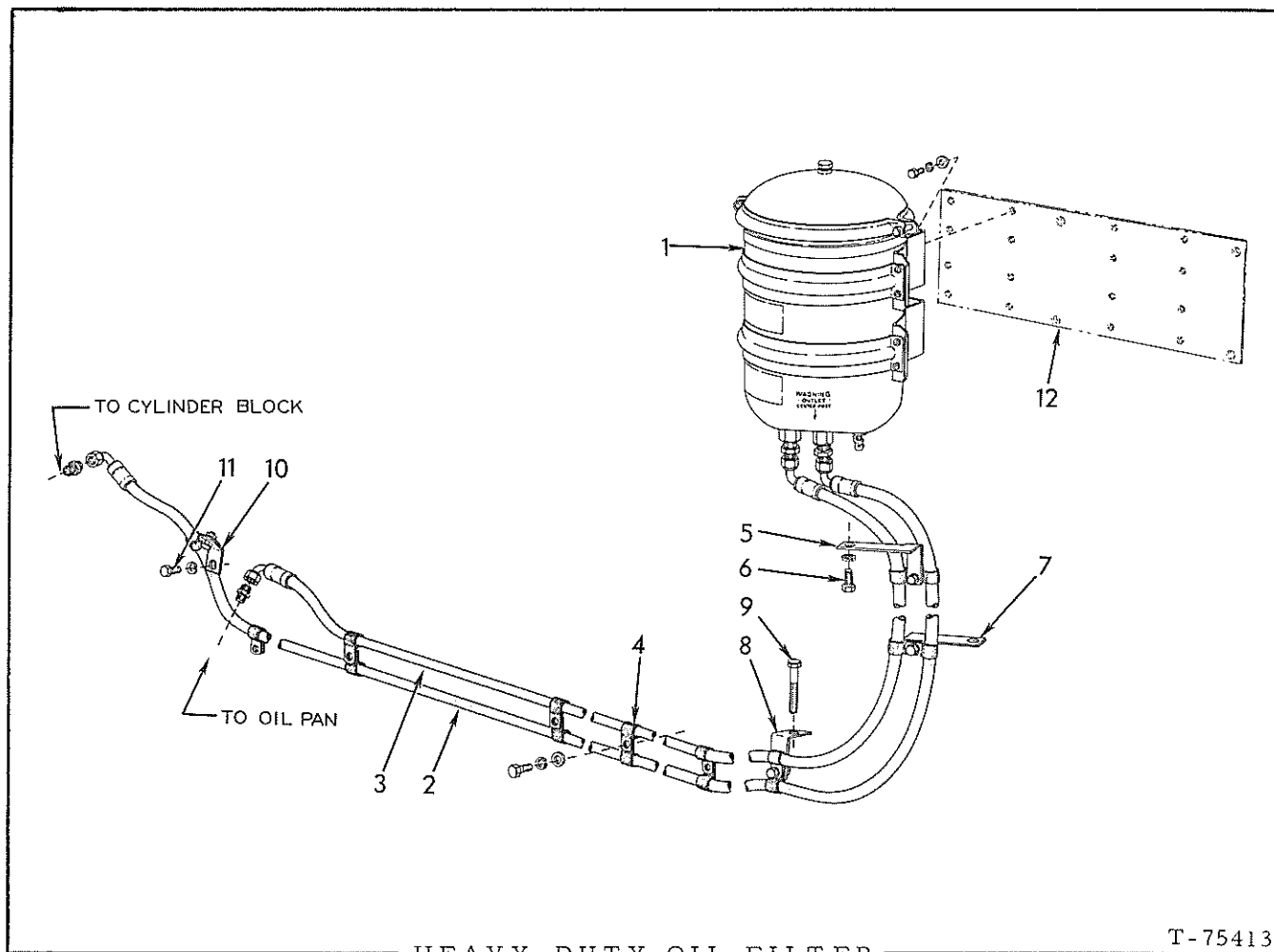
I-70529

# HEAVY-DUTY OIL FILTER

USAGE: Special equipment. Supplements standard oil filter on tractors prior to serial No.8775.

| ITEM | PART NO. | QTY. | DESCRIPTION                                                      |
|------|----------|------|------------------------------------------------------------------|
| 1    | 70082442 | 1    | FILTER ASSEMBLY, lubricating oil (See page 50 for parts)         |
|      | 70911168 | 8    | CAPSCREW, 5/16"NF x 7/8"                                         |
|      | 70904205 | 8    | LOCKWASHER, 5/16"                                                |
|      | 70913636 | 8    | NUT, 5/16"NF                                                     |
| 2    | 70646303 | 1    | HOSE, filter supply (See HOSE PARTS)                             |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male                   |
|      | 70919127 | 1    | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male                   |
| 3    | 70646322 | 1    | HOSE, filter return (See HOSE PARTS)                             |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male                   |
|      | 70919127 | 1    | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male                   |
| 4    | 70094422 | 14   | CLIP, hose supporting (5/8" diam.)(Used prior to tractor #6965)  |
|      | 70621304 | 14   | CLIP, hose supporting (3/4" diam.)(Effective with tractor #6965) |
| 5    | 70036034 | 3    | CAPSCREW, 3/8"NF x 1"                                            |
|      | 70904206 | 3    | LOCKWASHER, 3/8"                                                 |
|      | 70911041 | 3    | NUT, 3/8"NF                                                      |
| 6    | 70035439 | 5    | CAPSCREW, 3/8"NC x 1"                                            |
|      | 70904206 | 5    | LOCKWASHER, 3/8"                                                 |
|      | 70911115 | 5    | WASHER, plain, SAE std., 3/8"                                    |
| 7    | 70633010 | 1    | ANGLE, hose supporting, rear                                     |
| 8    | 70633453 | 1    | ANGLE, hose supporting, intermediate                             |
| 9    | 70035892 | 1    | CAPSCREW, 1/2"NF x 2-1/2"(Also attaches brake lever bracket)     |
| 10   | 70096935 | 1    | ANGLE, hose supporting, front                                    |
| 11   | 70035221 | 1    | CAPSCREW, 1/2"NC x 1"                                            |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                                 |
| 12   | -----    | -    | BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)            |

NOTE: See PAINTING AND MARKING for transfers applied to filter



USAGE: Special equipment. Applicable to tractors serial No. 8775 and up.  
Supplements standard oil filter.

| ITEM | PART NO. | QTY. | DESCRIPTION                                           |
|------|----------|------|-------------------------------------------------------|
| 1    | 70082442 | 1    | FILTER ASSY., lubricating oil (See page 50 for parts) |
|      | 70034964 | 8    | CAPSCREW, 1/4"NC x 3/4"                               |
|      | 70904204 | 8    | LOCKWASHER, 1/4"                                      |
|      | 70092635 | 8    | WASHER, plain                                         |
| 2    | 70653909 | 1    | HOSE, filter supply (See HOSE PARTS)                  |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male        |
|      | 70919127 | 1    | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male        |
| 3    | 70653911 | 1    | HOSE, filter return (See HOSE PARTS)                  |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male        |
|      | 70919127 | 1    | CONNECTOR, flare type, 3/8" tube, 1/2"NPT male        |
| 4    | 70621304 | 16   | CLIP, hose supporting (3/4" diam., 17/32" bolt-hole)  |
| 5    | 70668968 | 1    | ANGLE, hose supporting                                |
| 6    | 70635718 | 1    | CAPSCREW, 1/2"NC x 3/4"                               |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                      |
| 7    | 70633010 | 1    | ANGLE, hose supporting                                |

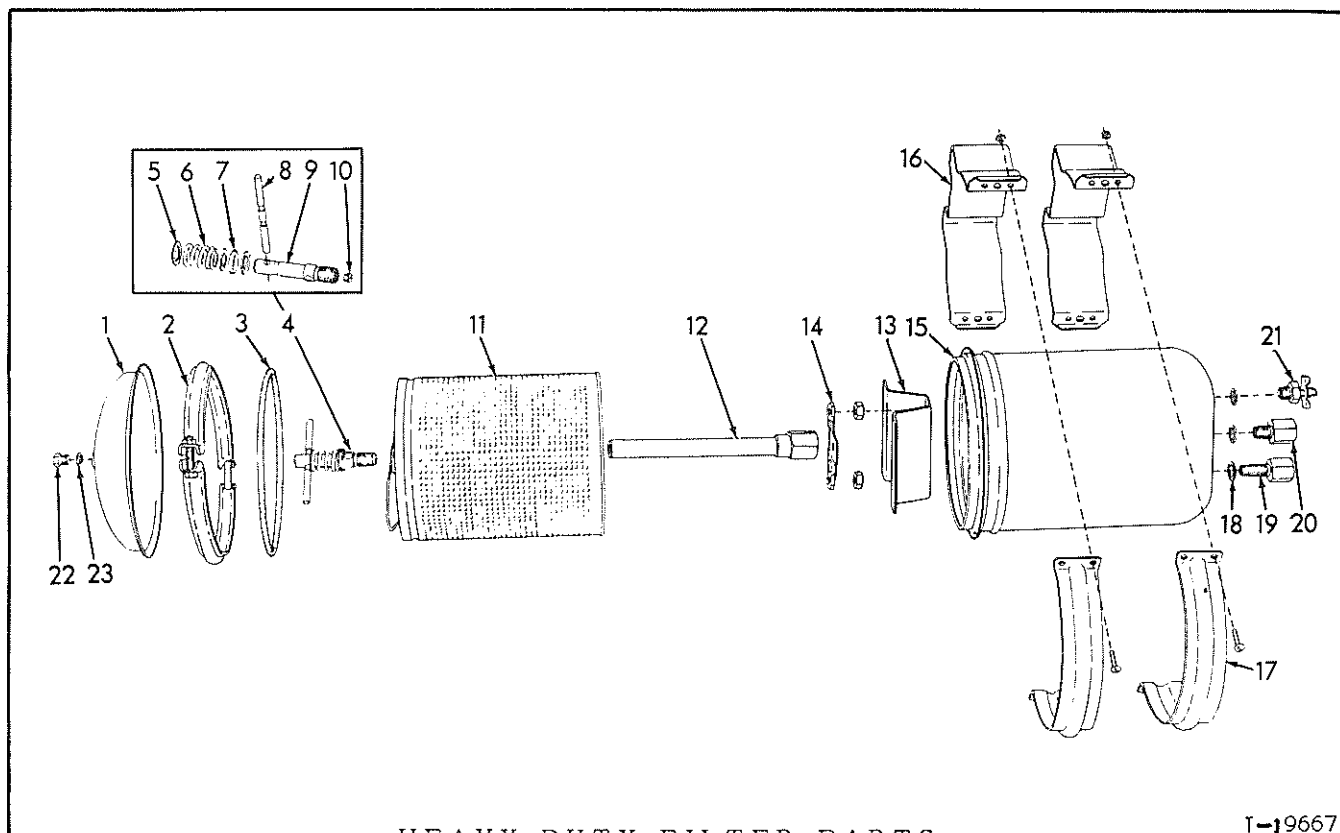
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# HEAVY-DUTY OIL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                   |
|------|----------|------|---------------------------------------------------------------|
| 8    | 70633453 | 1    | ANGLE, hose supporting                                        |
| 9    | 70035892 | 1    | CAPSCREW, 1/2"NF x 2-1/2" (Also attaches brake lever bracket) |
| 10   | 70096935 | 1    | ANGLE, hose supporting                                        |
| 11   | 70035221 | 1    | CAPSCREW, 1/2"NC x 1"                                         |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                              |
| 12   | -----    | -    | BRACKET, filter mounting (See HEAVY-DUTY FUEL FILTER)         |

NOTE: See PAINTING AND MARKING for transfers applied to filter.





HEAVY-DUTY FILTER PARTS

I-19667

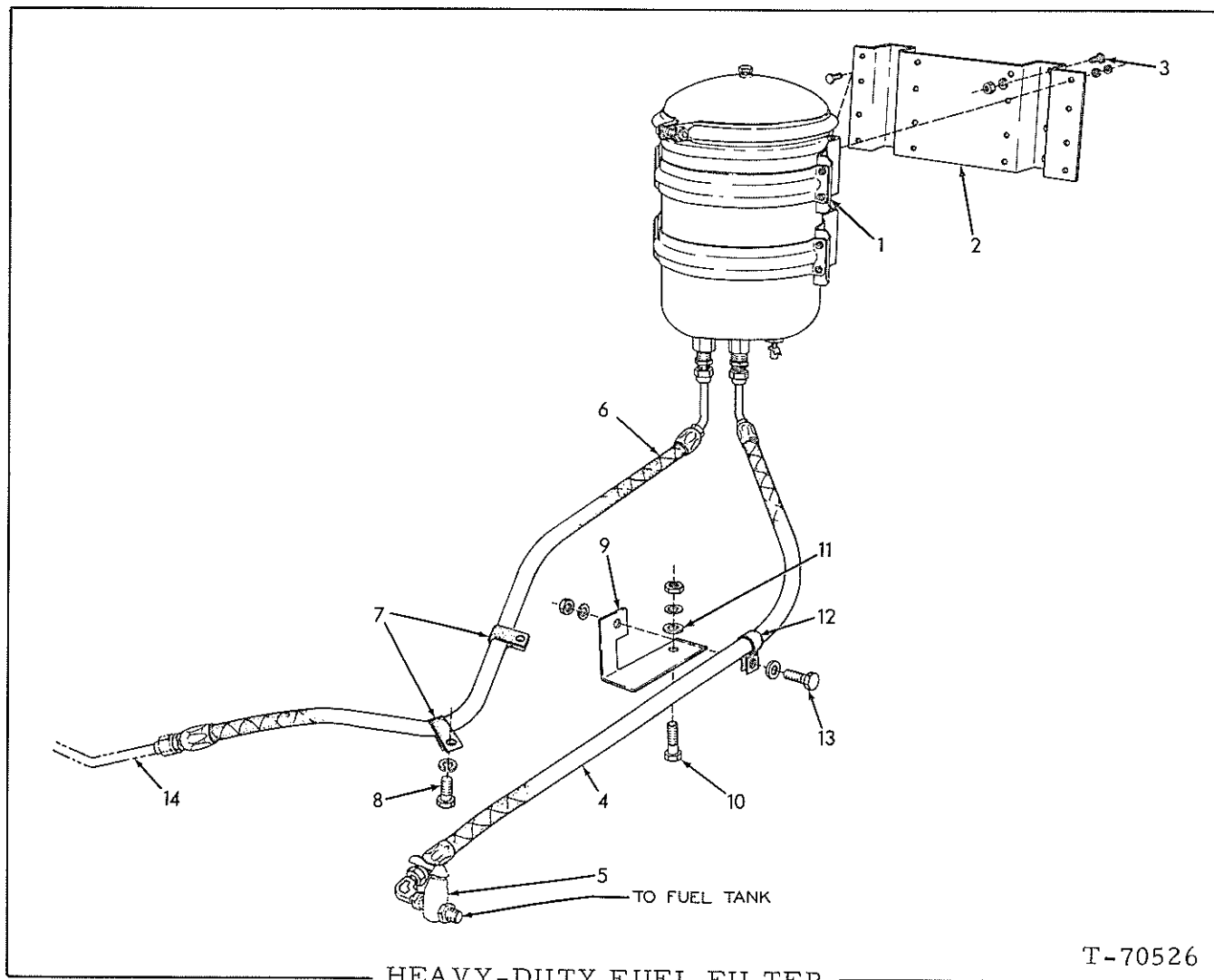
\*70082441 FILTER ASSEMBLY, fuel (See pages 52 and 53A)  
 \*\*70082442 FILTER ASSEMBLY, oil (See pages 49 and 49B)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                   |
|------|----------|------|----|---------------------------------------------------------------|
|      |          | *    | ** |                                                               |
| 1    | 70082505 | 1    | 1  | COVER                                                         |
| 2    | 70630540 | 1    | 1  | RING ASSEMBLY, cover retaining (Includes nut and bolt)        |
| 3    | 70082449 | 1    | 1  | GASKET, cover                                                 |
| 4    | 70082492 | 1    | -  | HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 9)  |
|      | 70082493 | -    | 1  | HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 10) |
| 5    | 70082489 | 3    | 3  | WASHER, element hold-down                                     |
| 6    | 70082490 | 1    | 1  | SPRING, element hold-down                                     |
| 7    | 70082487 | 1    | 1  | SEAL, element hold-down                                       |
| 8    | 70082488 | 1    | 1  | HANDLE, element hold-down                                     |
| 9    | -----    | 1    | 1  | STUD, element hold-down (Not serviced separately)             |
| 10   | 70082491 | -    | 1  | PLUG, orifice, element hold-down                              |
| 11   | 70091540 | 1    | 1  | ELEMENT, filtering (Original equipment)                       |
|      | 74059373 | 1    | 1  | ELEMENT, filtering (Optional)                                 |

(Continued)

## HEAVY -DUTY FILTER PARTS (Continued)

| ITEM | PART NO. | QTY.<br>* ** | DESCRIPTION                                                                                 |
|------|----------|--------------|---------------------------------------------------------------------------------------------|
| 12   | 70076668 | 1 1          | TUBE ASSEMBLY, outlet (Includes nut)                                                        |
| 13   | 70096816 | 1 1          | SUPPORT, filter element                                                                     |
|      | 70911049 | 2 2          | NUT, jam, 5/8"NF                                                                            |
| 14   | 70096815 | 1 1          | RETAINER, element support nut                                                               |
| 15   | -----    | 1 1          | HOUSING (Not serviced separately)                                                           |
| 16   | 70082444 | 2 2          | BRACKET, mounting                                                                           |
| 17   | 70082443 | 2 2          | BAND, mounting bracket                                                                      |
|      | 70900576 | 8 8          | SCREW, machine, 1/4"NC x 3/4"                                                               |
|      | 70911024 | 8 8          | NUT, 1/4"NC                                                                                 |
| 18   | 70063891 | 3 3          | GASKET                                                                                      |
| 19 { | 70063890 | - 1          | VALVE ASSEMBLY, inlet check (Includes 1 spring, 1 ring, 1 cup.<br>Serviced only as a unit)  |
|      | 70063889 | 1 -          | BOLT, hollow                                                                                |
| 20 { | 70080758 | - 1          | VALVE ASSEMBLY, outlet check (Includes 1 spring, 1 ring, 1 cup.<br>Serviced only as a unit) |
|      | 70063889 | 1 -          | BOLT, hollow                                                                                |
| 21   | 70094167 | 1 1          | COCK, drain                                                                                 |
| 22   | 70084897 | 1 1          | PLUG, venting                                                                               |
| 23   | 70084899 | 1 1          | WASHER, venting plug                                                                        |



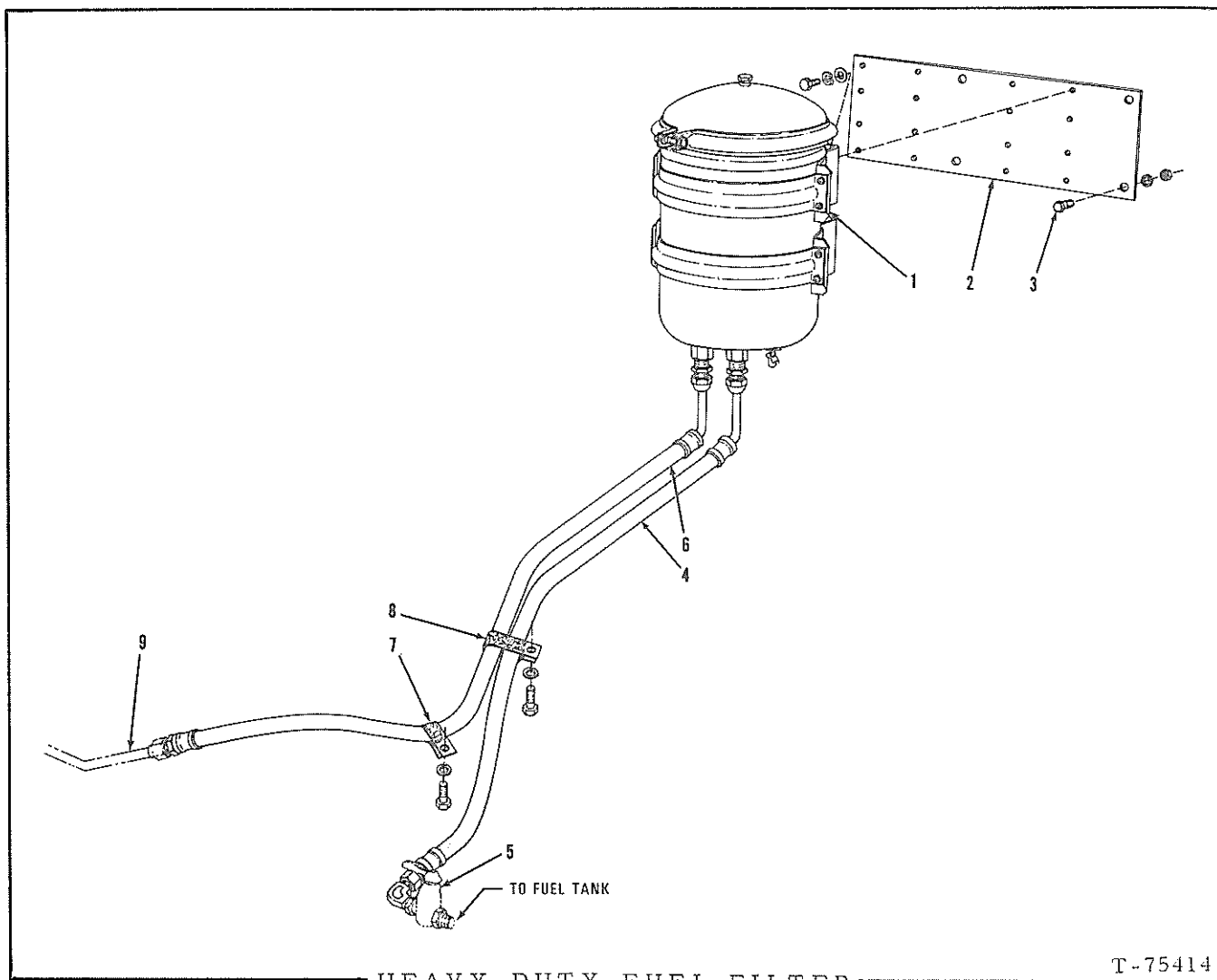
USAGE: Special equipment, applicable to tractors prior to serial no. 8775.  
Requires removal of standard first stage fuel filter element.

| ITEM | PART NO. | QTY. | DESCRIPTION                                           |
|------|----------|------|-------------------------------------------------------|
| 1    | 70082441 | 1    | FILTER ASSEMBLY, fuel (See page 50 for parts)         |
|      | 70911168 | 8    | CAPSCREW, 5/16"NF x 7/8"                              |
|      | 70904205 | 8    | LOCKWASHER, 5/16"                                     |
|      | 70913636 | 8    | NUT, 5/16"NF                                          |
| 2    | 70080459 | 1    | BRACKET, mounting (Also mounts Heavy-duty Oil Filter) |
| 3    | 70070469 | 4    | CAPSCREW, 1/2"NF x 1-1/4"                             |
|      | 70904208 | 4    | LOCKWASHER, 1/2"                                      |
|      | 70911043 | 4    | NUT, 1/2"NF                                           |
| 4    | 70646838 | 1    | HOSE, filter inlet (See HOSE PARTS)                   |
|      | 70919206 | 1    | ELBOW, flare type, 1/2" tube, 3/8"NPT                 |
|      | 70919128 | 1    | CONNECTOR, flare type, 1/2" tube, 1/2"NPT             |
| 5    | -----    | -    | COCK (See FUEL SUPPLY LINES)                          |
| 6    | 70646839 | 1    | HOSE, filter outlet (See HOSE PARTS)                  |
|      | 70919128 | 1    | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male        |

(Continued)

# HEAVY-DUTY FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                 |
|------|----------|------|-------------------------------------------------------------|
| 7    | 70621304 | 2    | CLIP, outlet hose                                           |
| 8    | 70070467 | 1    | CAPSCREW, 1/2"NF x 1"                                       |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                            |
| 9    | 70632122 | 1    | BRACKET, hose supporting                                    |
| 10   | 70035248 | 1    | CAPSCREW, 5/8"NF x 2-1/4"                                   |
|      | 70904209 | 1    | LOCKWASHER, 5/8"                                            |
|      | 70911044 | 1    | NUT, 5/8"                                                   |
| 11   | 70064810 | 1    | WASHER, plain                                               |
| 12   | 70094467 | 1    | CLIP, inlet hose (3/4" diam.)(Used prior to tractor #6965)  |
|      | 70644713 | 1    | CLIP, inlet hose (7/8" diam.)(Effective with tractor #6965) |
| 13   | 70036034 | 1    | CAPSCREW, 3/8"NF x 1"                                       |
|      | 70911115 | 1    | WASHER, plain, SAE std., 3/8"                               |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                            |
|      | 70911041 | 1    | NUT, 3/8"NF                                                 |
| 14   | -----    | 1    | TUBE ASSEMBLY (See FUEL SUPPLY LINE)                        |



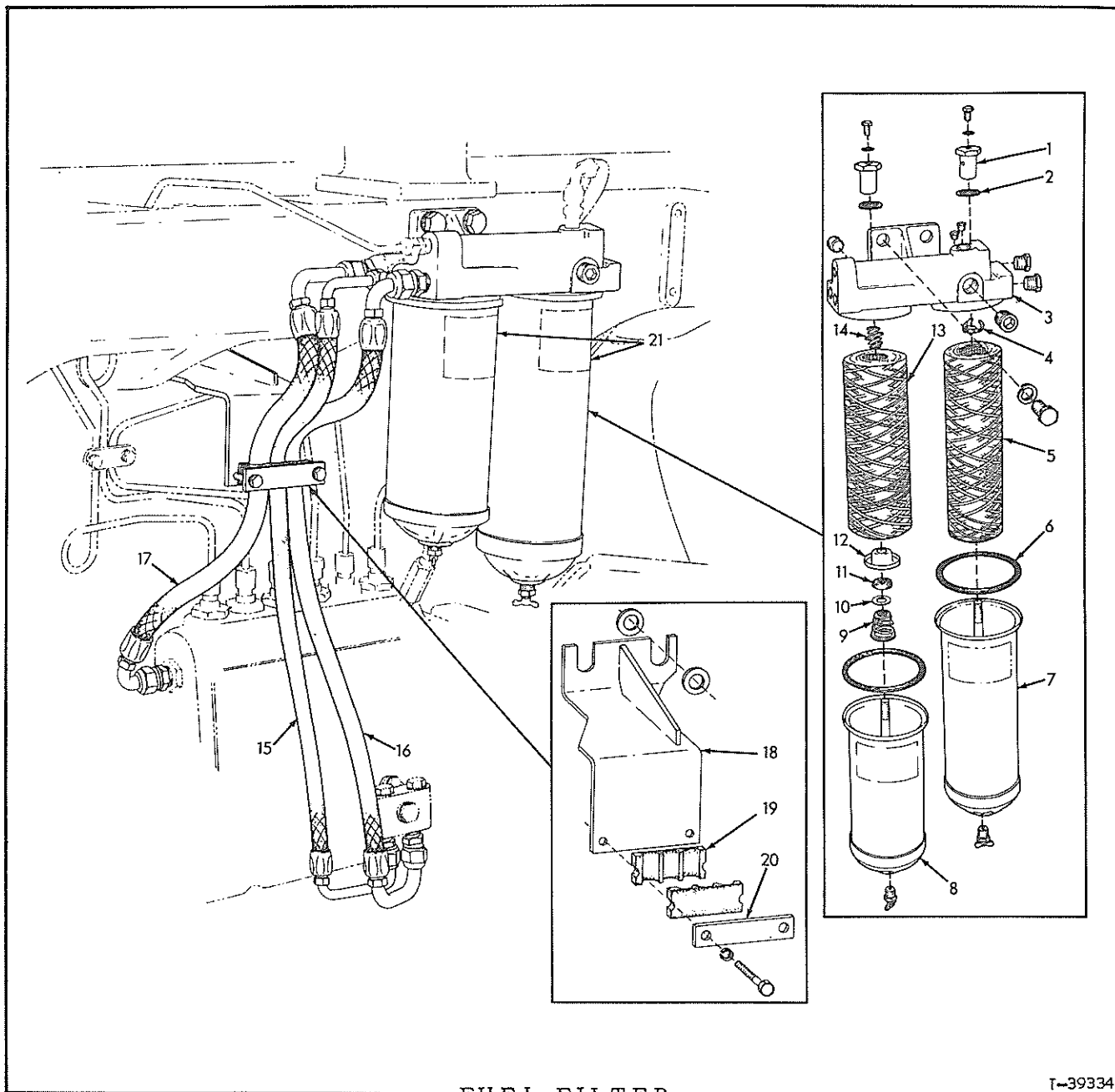
USAGE: Special equipment for tractors serial No. 8775 and up. Requires removal of standard first stage fuel filter element.

| ITEM | PART NO. | QTY. | DESCRIPTION                                           |
|------|----------|------|-------------------------------------------------------|
| 1    | 70082441 | 1    | FILTER ASSY., fuel (See page 50 for parts)            |
|      | 70034964 | 8    | CAPSCREW, 1/4"NC x 3/4"                               |
|      | 70904204 | 8    | LOCKWASHER, 1/4"                                      |
| 2    | 70653781 | 1    | BRACKET, mounting (Also mounts Heavy-duty Oil Filter) |
| 3    | 70614478 | 4    | CAPSCREW, 1/2"NF x 1-3/8"                             |
|      | 70904208 | 4    | LOCKWASHER, 1/2"                                      |
|      | 70911043 | 4    | NUT, 1/2"NF                                           |
| 4    | 70646838 | 1    | HOSE, filter inlet (See HOSE PARTS)                   |
|      | 70919206 | 1    | ELBOW, flare type, 1/2" tube, 3/8"NPT                 |
|      | 70919128 | 1    | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male        |
| 5    | -----    | -    | COCK (See FUEL SUPPLY LINES)                          |
| 6    | 70646839 | 1    | HOSE, filter outlet (See HOSE PARTS)                  |
|      | 70919128 | 1    | CONNECTOR, flare type, 1/2" tube, 1/2"NPT male        |

(Continued)

# HEAVY-DUTY FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                        |
|------|----------|------|--------------------------------------------------------------------|
| 7    | 70644713 | 1    | CLIP, hose supporting (7/8" diam., 17/32" bolt-hole)               |
|      | 70070467 | 1    | CAPSCREW, 1/2"NF x 1"                                              |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                                   |
| 8    | 70644708 | 1    | CLIP, hose supporting (For two 7/8" diam. hoses, 17/32" bolt-hole) |
|      | 70070467 | 1    | CAPSCREW, 1/2"NF x 1"                                              |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                                   |
| 9    | -----    | 1    | TUBE ASSY., fuel supply (See FUEL LINES)                           |



FUEL FILTER

I-39334

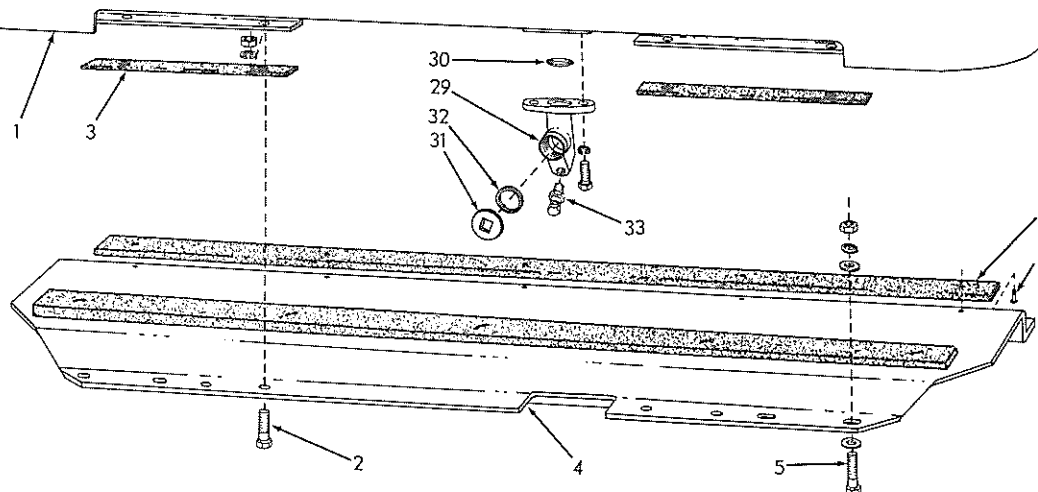
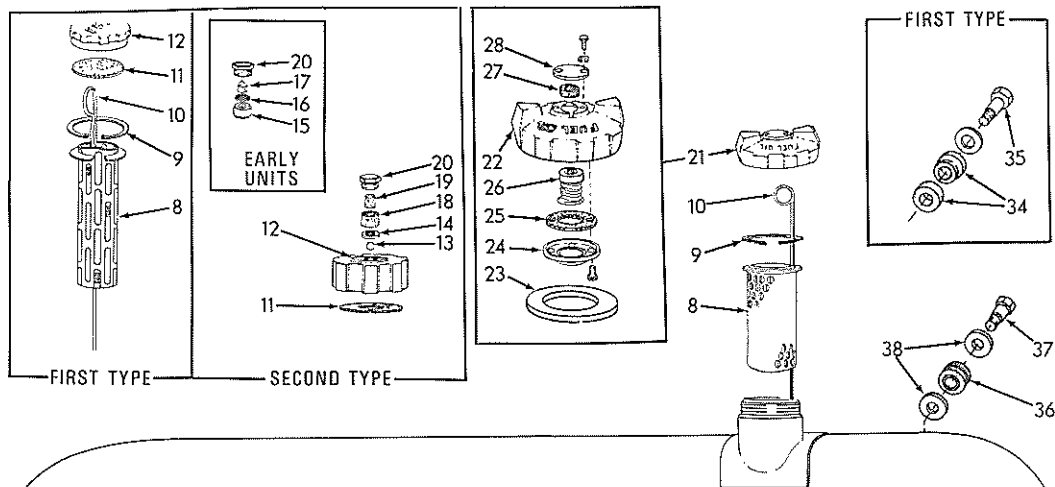
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                   |
|------|----------|------|-------------------------------------------------------------------------------|
| 1    | 74051483 | 2    | NUT, shell retaining (1-3/16" long) (Used prior to approx. engine #16-06228)  |
|      | 74389113 | 2    | NUT, shell retaining (1-9/16" long) (Effective with approx. engine #16-06228) |
|      | 70919288 | 2    | CAPSCREW, 1/4"NC x 3/8"                                                       |
|      | 70914686 | 2    | WASHER, copper                                                                |
|      |          |      | } Air bleed                                                                   |
| 2    | 74051484 | 2    | GASKET, shell retaining nut                                                   |

(Continued)

# FUEL FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                               |
|------|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 3    | 74389051 | 1    | HEAD ASSEMBLY (Includes PLUGS indented below)(If for engines prior to approx. #16-06228 also order 2 NUT 74389113 and 1 BUSHING 70901826) |
|      | 70919840 | 1    | PLUG, pipe, hex-hd., 1/4"NPT (Used prior to approx. engine #16-06228)                                                                     |
|      | 70919134 | 2    | PLUG, pipe, hex-hd., 1/8"NPT                                                                                                              |
|      | 70920333 | 2    | PLUG, pipe, hex-hd., 3/8"NPT (1 less used prior to approx. engine #16-06228)                                                              |
|      | 70918887 | 2    | PLUG, pipe, hex-socket, 3/8"NPT                                                                                                           |
|      | 70916311 | 2    | CAPSCREW, 1/2"NC x 1-1/4"                                                                                                                 |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                                                                                          |
| 4    | 74051485 | 1    | GUIDE, centering, first stage filter element                                                                                              |
| 5    | 74055565 | 1    | ELEMENT KIT, first stage filter (Includes item 6)(Not used when Heavy-Duty Filter is installed)                                           |
| 6    | 74040013 | 2    | GASKET, filter shell                                                                                                                      |
| 7    | 74389172 | 1    | SHELL ASSEMBLY, first stage filter (Includes items 1,2,4,5,6 and COCK 70912415)                                                           |
|      | 70912415 | 1    | COCK, drain, 1/4"NPT                                                                                                                      |
| 8    | 74388109 | 1    | SHELL ASSEMBLY, second stage filter (Includes items 1,2,6,9 thru 14 and COCK 70912415)                                                    |
|      | 70912415 | 1    | COCK, drain, 1/4"NPT                                                                                                                      |
| 9    | 74052174 | 1    | SPRING, second stage filter                                                                                                               |
| 10   | -----    | 1    | WASHER, element plate gasket (Not serviced separately)                                                                                    |
| 11   | -----    | 1    | GASKET, element plate (Not serviced separately)                                                                                           |
| 12   | 74052173 | 1    | PLATE, element seating, second stage filter                                                                                               |
| 13   | 74056632 | 1    | ELEMENT KIT, second stage filter (Includes items 6,10 and 11)                                                                             |
| 14   | 74055913 | 1    | GUIDE, element centering, second stage filter                                                                                             |
| 15   | 74386771 | 1    | HOSE ASSEMBLY, transfer pump to second stage filter (See HOSE PARTS)                                                                      |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male (1 additional used on filter end on engines prior to approx. #16-06228)                    |
|      | 70919172 | 1    | CONNECTOR, flare type, 3/8" tube, 3/8"NPT male (At filter end. Effective with approx. engine #16-06228)                                   |
| 16   | 74386772 | 1    | HOSE ASSEMBLY, first stage filter to transfer pump (See HOSE PARTS)                                                                       |
|      | 70919205 | 1    | CONNECTOR, flare type, 1/2" tube, 1/4"NPT male                                                                                            |
|      | 70919063 | 1    | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male                                                                                            |
| 17   | 74386774 | 1    | HOSE ASSEMBLY, second stage filter to injection pump (See HOSE PARTS)                                                                     |
|      | 70919063 | 2    | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male                                                                                            |
| 18   | 74387129 | 1    | BRACKET, hose supporting                                                                                                                  |
|      | 70910244 | 4    | WASHER, plain, SAE std., 1/2"                                                                                                             |
| 19   | 74377253 | 2    | INSERT, hose clamping (rubber)                                                                                                            |
| 20   | 74387196 | 1    | CLAMP, hose supporting                                                                                                                    |
|      | 70916286 | 2    | CAPSCREW, 1/4"NC x 1-1/2"                                                                                                                 |
|      | 70904204 | 2    | LOCKWASHER, 1/4"                                                                                                                          |
| 21   | -----    | -    | TRANSFER (See PAINTING AND MARKING)                                                                                                       |





FUEL TANK

T-70536

(Revised November 1969)

# FUEL TANK

\*Tractors prior to serial No. 8528  
 \*\*Tractors serial No. 8528 thru 8935  
 Δ Tractors serial No. 8936 and up

| ITEM | PART NO. | QTY. |    |    | DESCRIPTION                                                                                        |
|------|----------|------|----|----|----------------------------------------------------------------------------------------------------|
|      |          | *    | ** | Δ  |                                                                                                    |
| 1    | -----    | 1    | -  | -  | TANK, fuel (Used prior to tractor #7381. Order TANK 70650228, STRAINER 70642749 and RING 70621775) |
|      | 70650228 | 1    | -  | -  | TANK, fuel (Tractor #7381 thru 8527)                                                               |
|      | 70657753 | -    | 1  | 1  | TANK, fuel                                                                                         |
| 2    | 70035014 | 8    | 7  | 7  | CAPSCREW, 5/8"NF x 1-1/2"                                                                          |
|      | 70023465 | -    | 1  | 1  | CAPSCREW, 5/8"NF x 1-3/4"                                                                          |
|      | 70904209 | 8    | 8  | 8  | LOCKWASHER, 5/8"                                                                                   |
|      | 70911044 | 8    | 8  | 8  | NUT, 5/8"NF                                                                                        |
| 3    | 70083917 | 4    | 4  | 4  | PAD, tank mounting                                                                                 |
| 4    | 70632099 | 1    | 1  | 1  | CHANNEL ASSY., tank supporting (includes items 6 and 7)                                            |
| 5    | 70035248 | 10   | -  | -  | CAPSCREW, 5/8"NF x 2-1/4" (Early units)                                                            |
|      | 70023755 | 10   | 10 | 10 | CAPSCREW, 5/8"NC x 2-1/4" (Late units)                                                             |
|      | 70064810 | 20   | 20 | 20 | WASHER, plain (10 less used with heavy-duty fenders)                                               |
|      | 70904209 | 10   | 10 | 10 | LOCKWASHER, 5/8"                                                                                   |
|      | 70911044 | 10   | -  | -  | NUT, 5/8"NF (Early units)                                                                          |
|      | 70911029 | 10   | 10 | 10 | NUT, 5/8"NC (Late units) } Not used with heavy-duty fenders                                        |
| 6    | 70632097 | 2    | 2  | 2  | PAD, tank mounting                                                                                 |
| 7    | 70083915 | 8    | 8  | 8  | RIVET, split, 3/16" x 3/4" (Not original equipment)                                                |
| 8    | 70642749 | 1    | -  | -  | STRAINER, fuel (Effective with tractor #7381)                                                      |
|      | 70650509 | -    | 1  | 1  | STRAINER, fuel                                                                                     |
| 9    | 70621775 | 1    | -  | -  | RING, snap, fuel strainer (Effective with tractor #7381)                                           |
|      | 70654840 | -    | 1  | 1  | RING, snap, fuel strainer                                                                          |
| 10   | 70053100 | 1    | 1  | 1  | GAUGE, fuel level                                                                                  |
| 11   | 70065613 | 1    | -  | -  | GASKET, fuel tank cap                                                                              |
|      | 70655416 | -    | 1  | -  | GASKET, fuel tank cap                                                                              |
| 12   | 70642744 | 1    | -  | -  | CAP, fuel tank                                                                                     |
|      | 70652567 | -    | 1  | -  | CAP ASSY., fuel tank (Includes items 12 thru 20)                                                   |
| 13   | 70652586 | -    | 1  | -  | BALL, check (aluminum)                                                                             |
| 14   | 70652587 | -    | 1  | -  | WASHER, check ball                                                                                 |
| 15   | -----    | -    | 1  | -  | SPACER, breather                                                                                   |
| 16   | -----    | -    | 1  | -  | SCREEN, breather                                                                                   |
| 17   | -----    | -    | 1  | -  | FILTER, breather                                                                                   |
| 18   | 70664867 | -    | 1  | -  | ELEMENT, breather (lower)                                                                          |
| 19   | 70664868 | -    | 1  | -  | ELEMENT, breather (upper)                                                                          |

FIRST TYPE FILTER. Used prior to tractor #8598. Order items 18 and 19.

SECOND TYPE FILTER Effective with tractor #8578

(Continued)

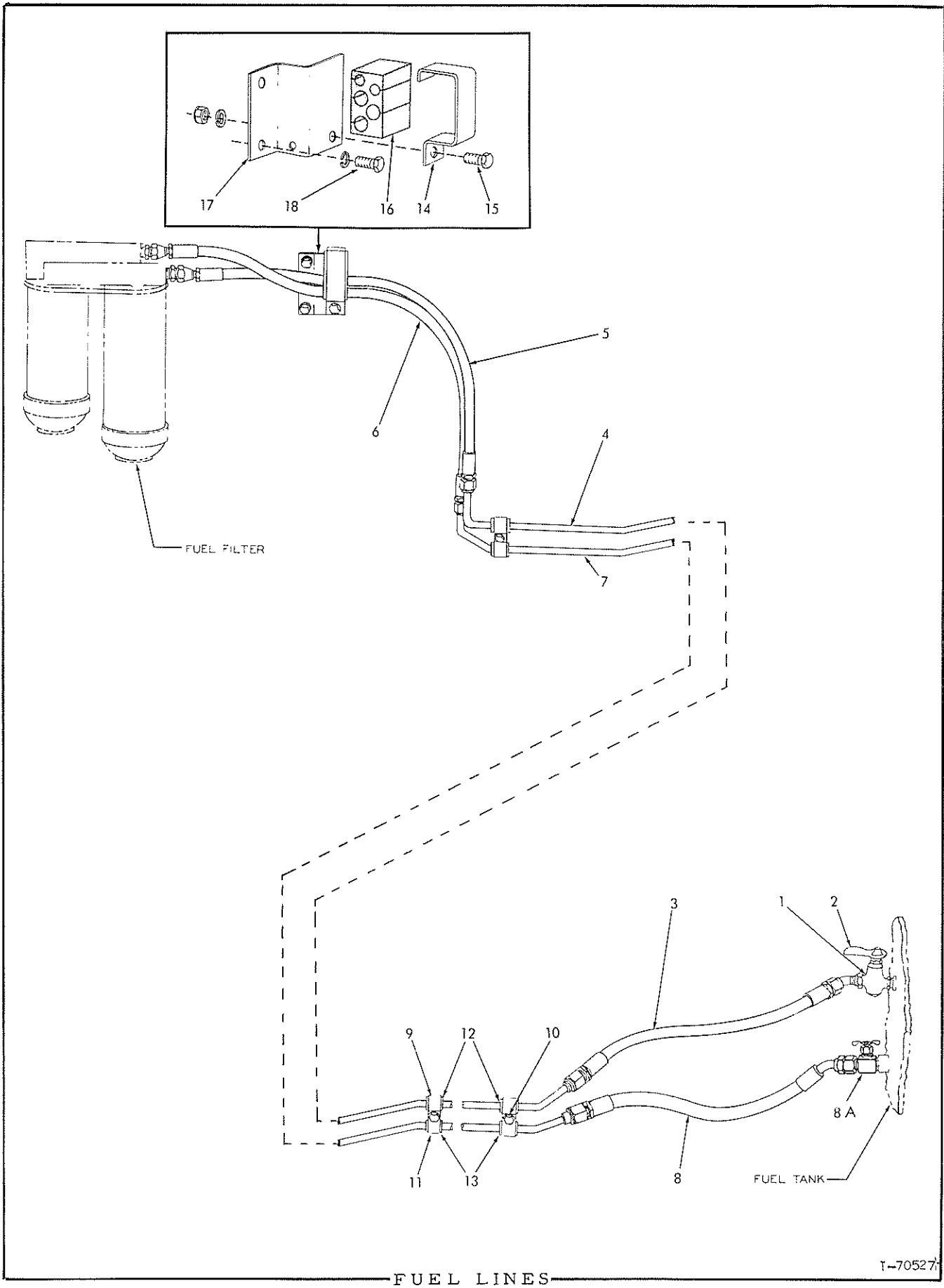
## FUEL TANK (Continued)

| ITEM | PART NO. | QTY. |    | Δ | DESCRIPTION                                                        |
|------|----------|------|----|---|--------------------------------------------------------------------|
|      |          | *    | ** |   |                                                                    |
| 20   | 70652590 | -    | 1  | - | BREATHER, fuel tank (Used prior to tractor #8598)                  |
|      | 70664866 | -    | 1  | - | BREATHER, fuel tank (Effective with tractor #8598)                 |
| 21   | 70668252 | -    | -  | 1 | CAP ASSY., fuel tank (Consists of items 22 thru 28)                |
| 22   | -----    | -    | -  | 1 | CAP, only (Not serviced separately)                                |
| 23   | 70668263 | -    | -  | 1 | GASKET, cap                                                        |
| 24   | 70668806 | -    | -  | 1 | SEAT, relief valve                                                 |
|      | 70926699 | -    | -  | 4 | SCREW, fil-hd., brass, #10-24NC x 3/8"                             |
| 25   | 70668804 | -    | -  | 1 | GASKET, valve seat                                                 |
| 26   | 70668805 | -    | -  | 1 | VALVE ASSY., relief (Serviced only as a unit)                      |
| 27   | 70664867 | -    | -  | 1 | ELEMENT, air filter                                                |
| 28   | 70668262 | -    | -  | 1 | COVER, tank cap                                                    |
|      | 70921181 | -    | -  | 2 | SCREW ASSY., #10-24NC x 1/2" (Includes lockwashers)                |
| 29   | 70083955 | 1    | 1  | 1 | ELBOW, fuel tank drain                                             |
|      | 70070469 | 2    | 2  | 2 | CAPSCREW, 1/2"NF x 1-1/4"                                          |
|      | 70904208 | 2    | 2  | 2 | LOCKWASHER, 1/2"                                                   |
| 30   | 70923813 | 1    | 1  | 1 | O-RING, fuel tank drain elbow                                      |
| 31   | 70050594 | 1    | 1  | 1 | PLUG, drain elbow clean-out                                        |
| 32   | 70050595 | 1    | 1  | 1 | GASKET, drain elbow clean-out plug                                 |
| 33   | 70633519 | 1    | 1  | 1 | COCK, drain                                                        |
| 34   | -----    | 8    | -  | - | SNUBBER, vibration (Order items 26 thru 28)                        |
| 35   | 70639699 | 4    | -  | - | CAPSCREW, vibration snubber                                        |
|      | 70900819 | 4    | -  | - | WASHER, plain U.S. std. 5/8"                                       |
| 36   | 70642441 | 4    | 4  | 4 | SNUBBER, vibration (Effective with tractor #6039, including #6033) |
| 37   | 70035068 | 4    | 4  | 4 | CAPSCREW, 1/2"NF x 2-1/4"                                          |
| 38   | 70092163 | 8    | 8  | 8 | WASHER, plain                                                      |

} Used prior to  
tractor #6039  
excluding #6033

NOTE: See PAINTING AND MARKING for transfers applied  
to rear of tank

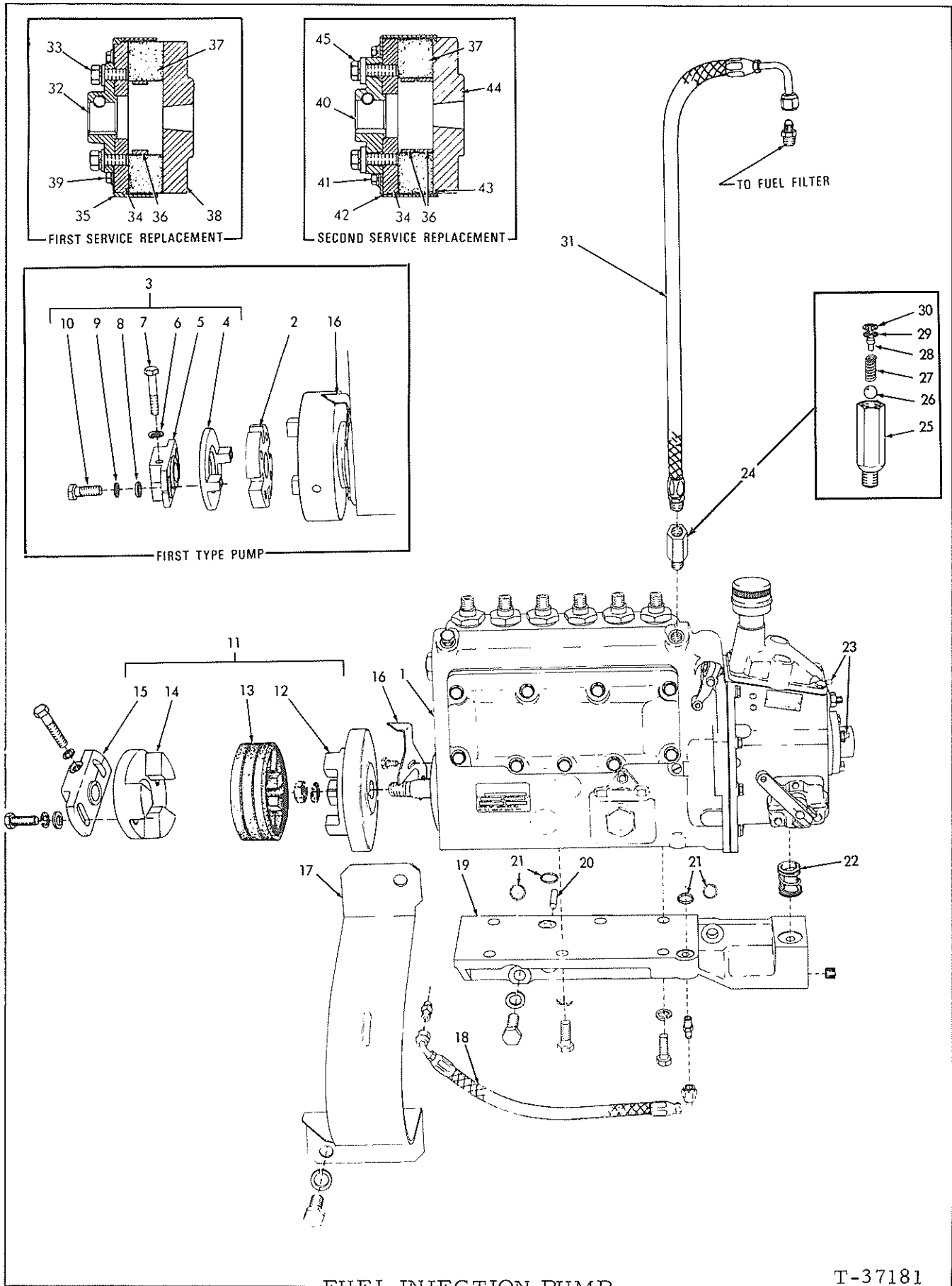




T-70527

# FUEL LINES

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                    |
|------|----------|------|--------------------------------------------------------------------------------|
| 1    | 70092727 | 1    | COCK, fuel shut-off (Includes item 2)                                          |
| 2    | 70082189 | 1    | HANDLE, fuel shut-off cock                                                     |
| 3    | 70646353 | 1    | HOSE, fuel supply, rear (See HOSE PARTS)(Not used with heavy-duty fuel filter) |
|      | 70920690 | 1    | ELBOW, flare type, 45°, 1/2" tube, 3/8"NPT male                                |
| 4    | 70643350 | 1    | TUBE ASSEMBLY, fuel supply (Includes nuts)                                     |
| 5    | 70646299 | 1    | HOSE, fuel supply, front (See HOSE PARTS)                                      |
|      | 70919063 | 1    | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male                                 |
| 6    | 70646300 | 1    | HOSE, fuel return, front (See HOSE PARTS)                                      |
|      | 70919062 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male                                 |
| 7    | 70632927 | 1    | TUBE ASSEMBLY, fuel return (Includes nuts)(Used prior to tractor #6310)        |
|      | 70643349 | 1    | TUBE ASSEMBLY, fuel return (Includes nuts)(Effective with tractor #6310)       |
| 8    | 70646352 | 1    | HOSE, fuel return, rear (See HOSE PARTS)(Used prior to tractor #7111)          |
|      | 70648231 | 1    | HOSE, fuel return, rear (See HOSE PARTS)(Effective with tractor #7111)         |
|      | 70923178 | 1    | CONNECTOR, flare type, 3/8" tube, 1/4"NPT female                               |
| 8A   | 70914378 | 1    | VALVE, shut-off, fuel return line (1/4"NPT ends)(Effective with tractor #7111) |
| 9    | 70097534 | 3    | CLIP, fuel supply tube                                                         |
| 10   | 70035167 | 3    | CAPSCREW, 3/8"NF x 7/8" (Early units)                                          |
|      | 70903775 | 3    | CAPSCREW, 3/8"NC x 7/8" (Late units)                                           |
|      | 70904206 | 3    | LOCKWASHER, 3/8"                                                               |
|      | 70911115 | 3    | WASHER, plain, SAE std., 3/8"                                                  |
| 11   | 70055234 | 3    | CLIP, fuel return tube                                                         |
| 12   | 70093752 | 3    | BOOT, tube protecting (1/2" tube)                                              |
| 13   | 70093751 | 3    | BOOT, tube protecting (3/8" tube)                                              |
| 14   | 70095980 | 1    | CLAMP, hose attaching                                                          |
| 15   | 70036034 | 1    | CAPSCREW, 3/8"NF x 1"                                                          |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                                               |
|      | 70911041 | 1    | NUT, 3/8"NF                                                                    |
| 16   | 70096328 | 1    | BLOCK, hose clamp (rubber)(Used prior to tractor #6965)                        |
|      | 70644530 | 1    | BLOCK, hose clamp (rubber)(Effective with tractor #6965)                       |
| 17   | 70096310 | 1    | BRACKET, hose supporting                                                       |
| 18   | 70035244 | 2    | CAPSCREW, 3/8"NC x 3/4"                                                        |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                               |



T-37181

# FUEL INJECTION PUMP

\* Engines prior to serial No. 16-09428

\*\* Engines serial No. 16-09428 and up

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                 |                               |
|------|----------|------|-------------------------------------------------------------------------------------------------------------|-------------------------------|
| 1    | 74389467 | 1    | - PUMP ASSY., injection (Includes items 2, 3 and 16)                                                        | } Units without turbo-charger |
|      | 74391819 | - 1  | PUMP ASSY., injection (Includes items 11 and 16)                                                            |                               |
|      | 74392286 | 1    | - PUMP ASSY., injection (Includes items 11 and 16) (Units with turbocharger)                                |                               |
|      | 70919228 | 4    | 4 CAPSCREW, 7/16"NC x 1-1/8"                                                                                |                               |
|      | 70918801 | 2    | 2 CAPSCREW, 7/16"NC x 1-5/8"                                                                                |                               |
|      | 70904207 | 6    | 6 LOCKWASHER, 7/16"                                                                                         |                               |
| 2    | 74379813 | 1    | - DISC, injection pump coupling                                                                             |                               |
| 3    | 74371714 | 1    | - COUPLING ASSY., injection pump drive (Consists of items 4 thru 10)                                        |                               |
| 4    | 74371716 | 1    | - FLANGE, injection pump drive coupling                                                                     |                               |
| 5    | 74371715 | 1    | - HUB, injection pump drive coupling                                                                        |                               |
|      | 70905845 | 1    | - KEY, #A woodruff, 1/4" x 7/8"                                                                             |                               |
| 6    | 74371720 | 1    | - LOCKWASHER, hub clamping screw                                                                            |                               |
| 7    | 74371719 | 1    | - SCREW, clamping, coupling hub                                                                             |                               |
| 8    | 74371718 | 2    | - WASHER, serrated, coupling capscrow                                                                       |                               |
| 9    | 74371721 | 2    | - LOCKWASHER, hub clamping screw                                                                            |                               |
| 10   | 74371717 | 2    | - CAPSCREW, injection pump drive coupling                                                                   |                               |
| 11   | 74390054 | - 1  | COUPLING ASSY., pump drive (Consists of items 12 thru 15)                                                   |                               |
|      | 74392350 | - 1  | COUPLING ASSY., pump drive (Service replacement) (First type)(Consists of items 32 thru 39)(Order 74394009) |                               |
|      | 74394009 | - 1  | COUPLING ASSY., pump drive (Service replacement) (Second type)(Consists of items 34, 36, 37 and 40 thru 45) |                               |
| 12   | 74059012 | - 1  | HUB, coupling                                                                                               |                               |
| 13   | 74059013 | - 1  | SPIDER, coupling (rubber)                                                                                   |                               |
| 14   | 74059014 | - 1  | FLANGE, coupling                                                                                            |                               |
| 15   | 74390055 | - 1  | CLAMP, coupling                                                                                             |                               |
|      | 70916385 | - 1  | CAPSCREW, 3/8"NF x 2 " (clamping)                                                                           |                               |
|      | 70916271 | - 2  | CAPSCREW, 3/8"NC x 1" (attaching)                                                                           |                               |
|      | 70904206 | - 3  | LOCKWASHER, 3/8"                                                                                            |                               |
|      | 74059015 | - 3  | WASHER, plain                                                                                               |                               |
| 16   | 74370977 | 1    | 1 POINTER, timing                                                                                           |                               |
| 17   | 74370976 | 1    | 1 GUARD, pump flywheel                                                                                      |                               |
|      | 70916310 | 1    | 1 CAPSCREW, 1/2"NC x 1"                                                                                     |                               |
|      | 70904208 | 1    | 1 LOCKWASHER, 1/2"                                                                                          |                               |
| 18   | 74386773 | 1    | 1 HOSE ASSY., oil supply (See HOSE PARTS)                                                                   |                               |
|      | 70919778 | 1    | 1 CONNECTOR, flare type, 5/16" tube, 1/4"NPT male                                                           |                               |
|      | 70919766 | 1    | 1 CONNECTOR, flare type, 5/16" tube, 1/8"NPT male                                                           |                               |

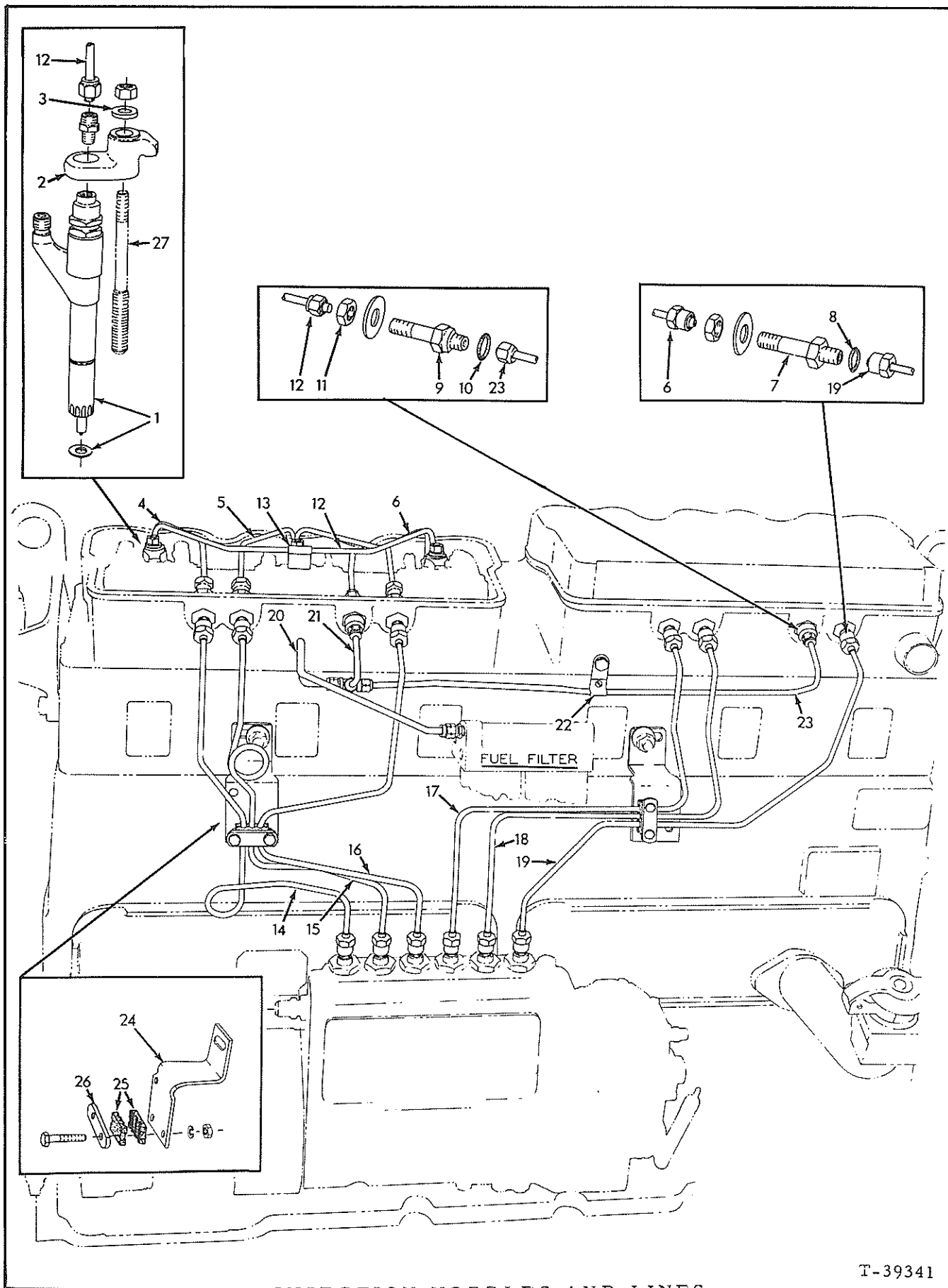
(Continued)



# FUEL INJECTION PUMP (Continued)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                    |            |
|------|----------|------|----|----------------------------------------------------------------|------------|
|      |          | *    | ** |                                                                |            |
| 19   | 74376529 | 1    | 1  | BRACKET, pump mounting                                         |            |
|      | 70918850 | 1    | 1  | PLUG, pipe, hex-socket, 1/4"NPT                                |            |
|      | 70916311 | 4    | 4  | CAPSCREW, 1/2"NC x 1-1/4"                                      |            |
|      | 70904208 | 4    | 4  | LOCKWASHER, 1/2"                                               |            |
| 20   | 74253286 | 2    | 2  | PIN, dowel, mounting bracket                                   |            |
| 21   | 74255665 | 4    | 4  | □ O-RING, mounting bracket                                     |            |
| 22   | 74379038 | 1    | 1  | COUPLING, oil drain, pump to bracket                           |            |
| 23   | 74355843 | 3    | 3  | SEAL, anti-tampering                                           |            |
| 24   | 74337015 | 1    | 1  | VALVE ASSEMBLY, pressure relief (Consists of items 25 thru 30) |            |
| 25   | -----    | 1    | 1  | BODY, relief valve (Not serviced separately)                   |            |
| 26   | 74337022 | 1    | 1  | BALL, relief valve                                             |            |
| 27   | 74337023 | 1    | 1  | SPRING, relief valve                                           |            |
| 28   | 74337019 | 1    | 1  | STOP, relief valve                                             |            |
| 29   | 74255017 | 1    | 1  | E-RING, relief valve stop                                      |            |
| 30   | 74255020 | 1    | 1  | RING, snap, relief valve                                       |            |
| 31   | 74386770 | 1    | 1  | HOSE ASSEMBLY, fuel return (See HOSE PARTS)                    |            |
|      | 70919062 | 1    | 1  | CONNECTOR, flare type, 3/8" tube, 1/4"NPT male                 |            |
| 32   | -----    | -    | 1  | CLAMP (Order items 40 and 41)                                  |            |
|      | 70916385 | -    | 1  | CAPSCREW, 3/8"NF x 2"                                          | } Clamping |
|      | 74110730 | -    | 1  | LOCKWASHER, 3/8"                                               |            |
| 33   | 70916271 | -    | 2  | CAPSCREW, 3/8"NC x 1"                                          |            |
|      | 74110730 | -    | 2  | LOCKWASHER, 3/8"                                               |            |
|      | 74059015 | -    | 2  | WASHER                                                         |            |
| 34   | 74060643 | -    | 1  | FLANGE                                                         |            |
| 35   | -----    | -    | 1  | COVER (Order items 42, 43, and 44)                             |            |
| 36   | 74060645 | -    | 1  | INSERT                                                         |            |
| 37   | 74060646 | -    | 6  | INSERT (rubber)                                                |            |
| 38   | -----    | -    | 1  | HUB (Order items 42, 43, and 44)                               |            |
| 39   | 70916284 | -    | 3  | CAPSCREW, 1/4"NC x 1/2"                                        |            |
|      | 74060656 | -    | 3  | WASHER                                                         |            |
| 40   | 74394318 |      | 1  | CLAMP                                                          |            |
|      | 70927322 |      | 1  | CAPSCREW, 3/8"NF x 2"                                          | } Clamping |
|      | 70910287 |      | 1  | LOCKWASHER, 3/8"                                               |            |
| 41   | 70921076 |      | 2  | CAPSCREW, 3/8"NC x 1-1/4"                                      |            |
|      | 70677006 |      | 2  | WASHER, plain                                                  |            |
| 42   | 74061040 |      | 1  | COVER                                                          |            |
| 43   | 74061042 |      | 1  | SHIELD, dust                                                   |            |
| 44   | 74061041 |      | 1  | HUB                                                            |            |
| 45   | 70915343 |      | 3  | CAPSCREW, 1/4"NC x 5/8"                                        |            |
|      | 70904204 |      | 3  | LOCKWASHER, 1/4"                                               |            |
|      | 70911114 |      | 3  | WASHER, plain                                                  |            |

MEMO



INJECTION NOZZLES AND LINES

T-39341

# INJECTION NOZZLES AND LINES

\* Engines prior to serial No. 16-08963

\*\* Engines serial No. 16-08963 and up

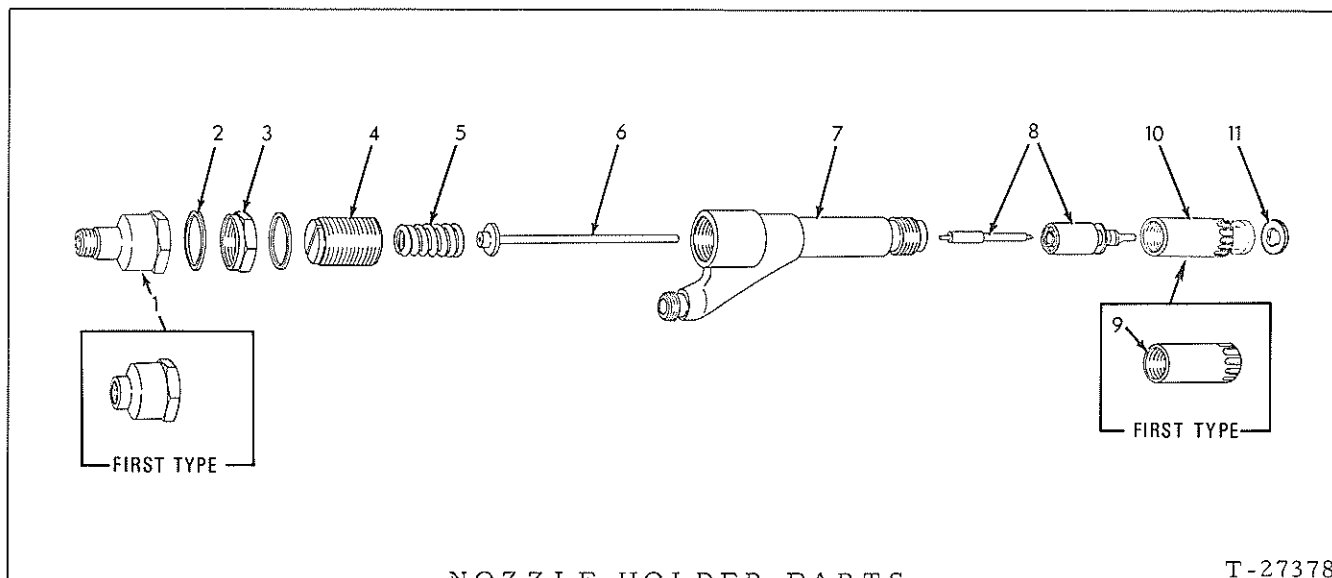
| ITEM | PART NO. | QTY.<br>* ** |   | DESCRIPTION                                                                      |                                             |
|------|----------|--------------|---|----------------------------------------------------------------------------------|---------------------------------------------|
| 1    | 74378027 | 6            | - | HOLDER ASSY., nozzle (Engines prior to #16-05069)                                | See page 65 for parts                       |
|      | 74390625 | 6            | - | HOLDER ASSY., nozzle (Engines #16-05069 and up)                                  |                                             |
|      | 74391957 | -            | 6 | HOLDER ASSY., nozzle (Engines prior to #16-09862)                                |                                             |
|      | 74060861 | -            | 6 | HOLDER ASSY., nozzle (Engines #16-09862 and up)(Also order 1 NOZZLE 7439006)     |                                             |
| 2    | 74387385 | 6            | 6 | CLAMP, nozzle holder                                                             |                                             |
|      | 74115287 | 6            | 6 | NUT, 3/8"NF                                                                      |                                             |
| 3    | 74020145 | 6            | 6 | WASHER, nozzle holder clamp                                                      |                                             |
| 4    | 74386434 | 2            | - | TUBE ASSY., fuel injection, internal                                             | #1 and #4 cylinders.<br>Each includes nuts  |
|      | 74390093 | -            | 2 | TUBE ASSY., fuel injection, internal                                             |                                             |
| 5    | 74386435 | 2            | - | TUBE ASSY., fuel injection, internal                                             | #2 and #5 cylinders.<br>Each includes nuts. |
|      | 74390094 | -            | 2 | TUBE ASSY., fuel injection, internal                                             |                                             |
| 6    | 74386436 | 2            | - | TUBE ASSY., fuel injection, internal                                             | #3 and #6 cylinders.<br>Each includes nuts. |
|      | 74390095 | -            | 2 | TUBE ASSY., fuel injection, internal                                             |                                             |
| 7    | 74386601 | 6            | 6 | CONNECTOR, injection line                                                        |                                             |
|      | 70919303 | 6            | 6 | NUT, jam, 9/16"NF                                                                |                                             |
|      | 70914659 | 6            | 6 | WASHER, plain, SAE std., 9/16"                                                   |                                             |
| 8    | 70923645 | 6            | 6 | O-RING, injection line connector                                                 |                                             |
| 9    | 74386602 | 2            | 2 | CONNECTOR, fuel return line                                                      |                                             |
| 10   | 70923645 | 2            | 2 | O-RING, return line connector                                                    |                                             |
| 11   | 74377267 | 2            | 2 | NUT, return line connector (1/2" - 24)                                           |                                             |
|      | 70914659 | 2            | 2 | WASHER, plain, SAE std., 9/16"                                                   |                                             |
| 12   | 74386433 | 2            | 2 | MANIFOLD ASSY., fuel return (Includes NUTS and SLEEVES indented below)           |                                             |
|      | 70917809 | 8            | 8 | NUT, Imperial, 1/4" tube                                                         |                                             |
|      | 74255956 | 8            | 8 | SLEEVE, Imperial, 1/4" tube (rubber)                                             |                                             |
|      | 70919800 | 6            | - | CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male<br>(Used prior to engine #16-07854) |                                             |
| 13   | 74255179 | 2            | 2 | CLIP, manifold supporting                                                        |                                             |

(Continued)

# INJECTION NOZZLES AND LINES (Continued)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                        |             |
|------|----------|------|----|--------------------------------------------------------------------|-------------|
|      |          | *    | ** |                                                                    |             |
| 14   | 74386546 | 1    | -  | TUBE ASSY., fuel injection, external                               | #1 cylinder |
|      | 74390085 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 15   | 74386547 | 1    | -  | TUBE ASSY., fuel injection, external                               | #2 cylinder |
|      | 74390086 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 16   | 74387647 | 1    | -  | TUBE ASSY., fuel injection, external                               | #3 cylinder |
|      | 74390087 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 17   | 74386549 | 1    | -  | TUBE ASSY., fuel injection, external                               | #4 cylinder |
|      | 74390088 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 18   | 74386550 | 1    | -  | TUBE ASSY., fuel injection, external                               | #5 cylinder |
|      | 74390089 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 19   | 74386551 | 1    | -  | TUBE ASSY., fuel injection, external                               | #6 cylinder |
|      | 74390090 | -    | 1  | TUBE ASSY., fuel injection, external                               |             |
| 20   | 74387301 | 1    | 1  | TUBE ASSY., fuel return (Includes NUTS and SLEEVES indented below) |             |
|      | 70917809 | 2    | 2  | NUT, Imperial, 1/4" tube                                           |             |
|      | 70917806 | 2    | 2  | SLEEVE, Imperial, 1/4" tube (rubber)                               |             |
|      | 70919797 | 1    | 1  | TEE, Imperial, 1/4" tube                                           |             |
|      | 70920242 | 1    | 1  | CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male                       |             |
| 21   | 74376718 | 1    | 1  | TUBE, fuel return, front                                           |             |
|      | 70917809 | 2    | 2  | NUT, Imperial, 1/4" tube                                           |             |
|      | 70917806 | 2    | 2  | SLEEVE, Imperial, 1/4" tube (rubber)                               |             |
| 22   | 74386617 | 1    | 1  | CLIP, fuel return tube                                             |             |
|      | 70901171 | 1    | 1  | SCREW, machine, #10-24NC x 3/8"                                    |             |
|      | 70904203 | 1    | 1  | LOCKWASHER, #10                                                    |             |
|      | 70901310 | 1    | 1  | NUT, #10-24NC                                                      |             |
|      | 70915408 | 1    | 1  | CAPSCREW, 3/8"NC x 3/4"                                            |             |
|      | 70904206 | 1    | 1  | LOCKWASHER, 3/8"                                                   |             |
|      | 70911115 | 1    | 1  | WASHER, plain, SAE std., 3/8"                                      |             |
| 23   | 74379738 | 1    | 1  | TUBE, fuel return, rear                                            |             |
|      | 70917809 | 2    | 2  | NUT, Imperial, 1/4" tube                                           |             |
|      | 70917806 | 2    | 2  | SLEEVE, Imperial, 1/4" tube (rubber)                               |             |
| 24   | 74388148 | 1    | 1  | BRACKET, supporting, injection lines                               |             |
| 25   | 74507359 | 4    | 4  | SPACER, injection lines (rubber)                                   |             |
| 26   | 74507415 | 2    | 2  | PLATE, clamping, injection lines                                   |             |
|      | 70918794 | 4    | 4  | CAPSCREW, 1/4"NC x 1-3/8"                                          |             |
|      | 70904204 | 4    | 4  | LOCKWASHER, 1/4"                                                   |             |
|      | 70910880 | 4    | 4  | NUT, 1/4"NC                                                        |             |
| 27   | -----    | 6    | 6  | STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)          |             |

(Revised December 1970)

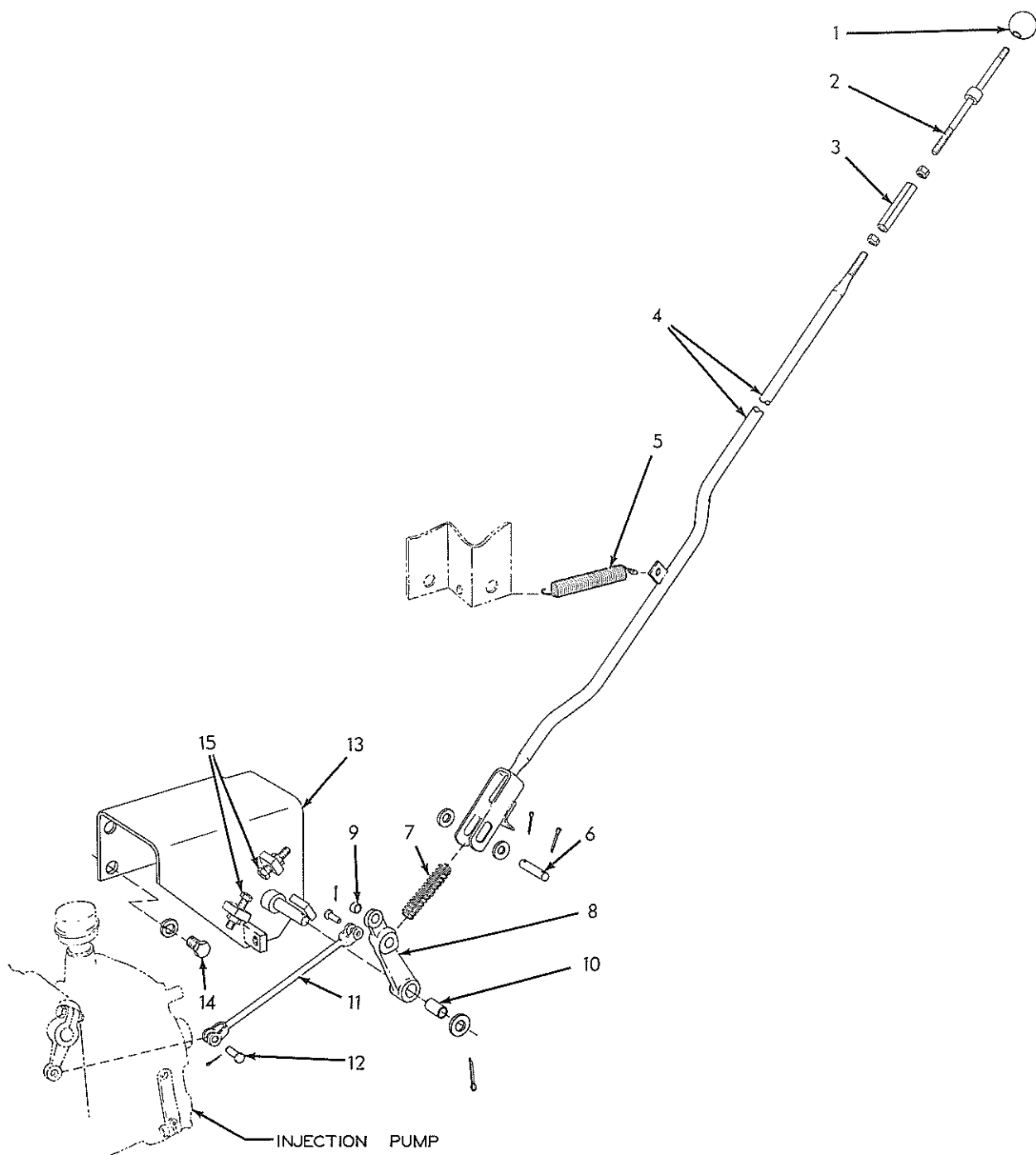


#74378027 HOLDER ASSEMBLY  
 \*\*74390625 HOLDER ASSEMBLY  
 Δ74391957 HOLDER ASSEMBLY  
 ΔΔ74392121 HOLDER ASSEMBLY  
 ΔΔΔ74392304 HOLDER ASSEMBLY

See page 63

|                                                              |          | QUANTITY |    |   |    |     |                                  |
|--------------------------------------------------------------|----------|----------|----|---|----|-----|----------------------------------|
| ITEM                                                         | PART NO. | *        | ** | Δ | ΔΔ | ΔΔΔ | DESCRIPTION                      |
| <u>NOTE:</u> Quantities are for one (1) Holder Assembly only |          |          |    |   |    |     |                                  |
| 1                                                            | 74378032 | -        | 1  | 1 | -  | -   | CAP (Engines prior to #16-07854) |
|                                                              | 74021227 | 1        | -  | 1 | 1  | 1   | CAP (Engines #16-07854 and up)   |
| 2                                                            | 74511243 | 2        | 2  | 2 | 2  | 2   | GASKET, cap nut                  |
| 3                                                            | 74511213 | 1        | 1  | 1 | 1  | 1   | NUT, locking                     |
| 4                                                            | 74378033 | 1        | 1  | 1 | 1  | 1   | SCREW, adjusting                 |
| 5                                                            | 74380652 | 1        | 1  | 1 | 1  | 1   | SPRING                           |
| 6                                                            | 74391240 | 1        | 1  | 1 | 1  | 1   | SPINDLE                          |
| 7                                                            | -----    | 1        | 1  | 1 | 1  | 1   | BODY (Not serviced separately)   |
| 8                                                            | 74378020 | -        | 1  | - | -  | -   | NOZZLE ASSY.                     |
|                                                              | 74386837 | -        | -  | 1 | -  | -   | NOZZLE ASSY.                     |
|                                                              | 74390006 | -        | -  | - | 1  | 1   | NOZZLE ASSY.<br>(.662" O. D.)    |
| 9                                                            | 74390619 | 1        | 1  | 1 | -  | -   | NUT, nozzle retaining            |
| 10                                                           | 74392057 | -        | -  | - | 1  | 1   | NUT, nozzle retaining            |
| 11                                                           | 74378031 | 1        | 1  | 1 | 1  | 1   | GASKET, nozzle                   |

Each includes  
item 11



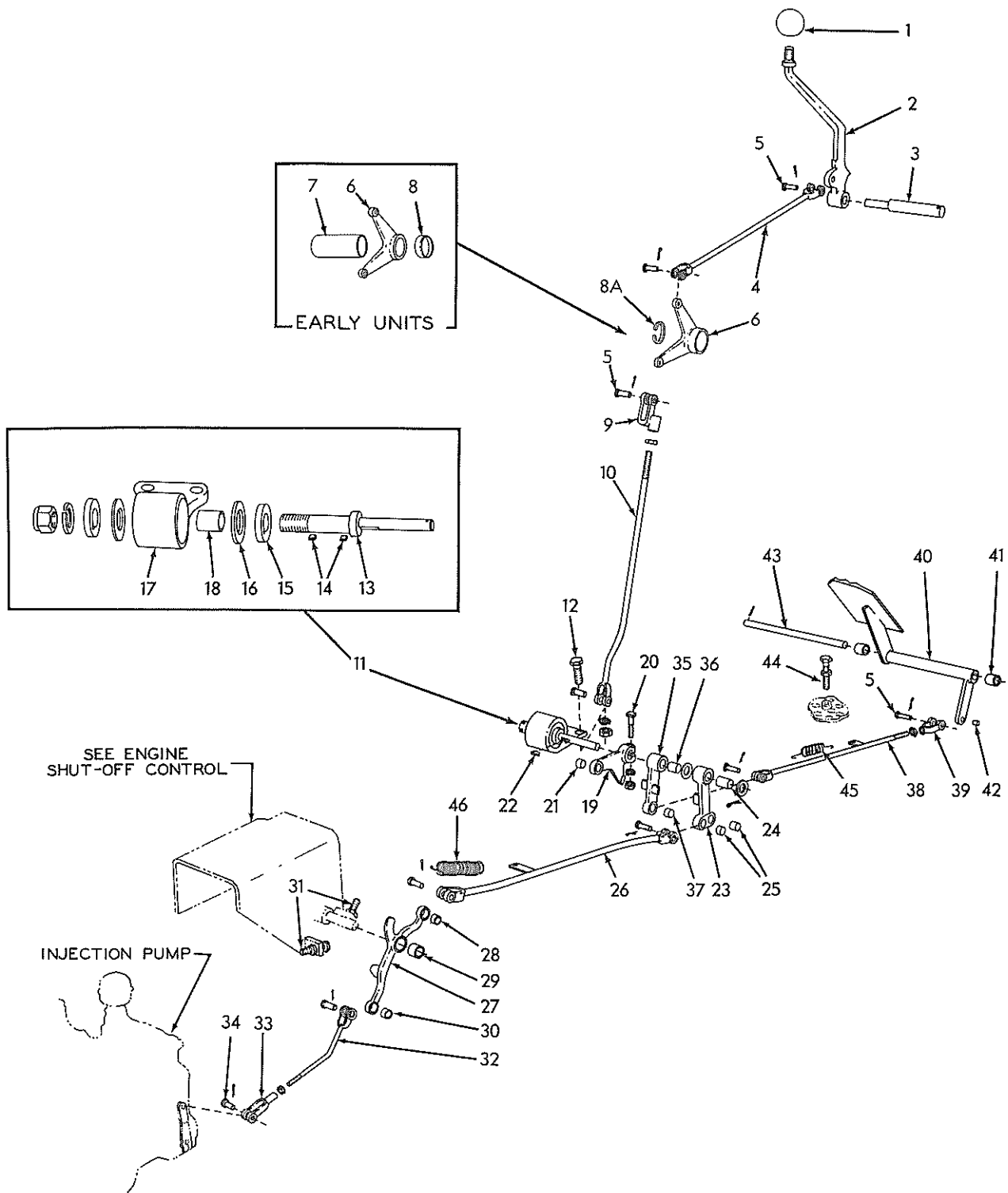
ENGINE SHUT-OFF CONTROL

T-40613

# ENGINE SHUT-OFF CONTROL

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                             |
|------|----------|------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1    | 70659075 | 1    | KNOB, shut-off rod                                                                                                                      |
| 2    | 70631555 | 1    | ROD, upper                                                                                                                              |
|      | 70919763 | 1    | NUT, 3/8"NF (left-hand thread)                                                                                                          |
| 3    | 70095421 | 1    | NUT, control adjustment                                                                                                                 |
| 4    | 70650394 | 1    | ROD, intermediate (Units without GROUND SPEED GOVERNOR prior to unit #09572)                                                            |
|      | 70631647 | 1    | ROD, intermediate (Units with GROUND SPEED GOVERNOR prior to unit #09572)                                                               |
|      | 70668147 | 1    | ROD, intermediate (Tractors unit #09572 and up)                                                                                         |
|      | 70911048 | 1    | NUT, jam, 3/8"NF                                                                                                                        |
| 5    | 70072438 | 1    | SPRING, retracting                                                                                                                      |
| 6    | 70631477 | 1    | PIN, yoke, intermediate rod                                                                                                             |
|      | 70911115 | 2    | WASHER, plain, SAE std., 3/8"                                                                                                           |
|      | 70900942 | 2    | PIN, cotter, 3/32" x 5/8"                                                                                                               |
| 7    | 70630745 | 1    | SPRING, intermediate rod (Units with GROUND SPEED GOVERNOR only prior to tractors unit #09572. Used on all tractors unit #09572 and up) |
| 8    | 70631492 | 1    | LEVER ASSY., intermediate rod (Includes items 9 and 10)                                                                                 |
| 9    | 70624585 | 1    | BUSHING, intermediate rod lever (small)                                                                                                 |
| 10   | 70631476 | 1    | BUSHING, intermediate rod lever (large)                                                                                                 |
| 11   | 70630311 | 1    | ROD, lower                                                                                                                              |
| 12   | 70628738 | 2    | PIN, yoke, lower rod                                                                                                                    |
|      | 70900970 | 2    | PIN, cotter, 1/16" x 1/2"                                                                                                               |
| 13   | 70631425 | 1    | BRACKET, supporting, control linkage                                                                                                    |
|      | 70910244 | 1    | WASHER, plain, SAE std., 1/2"                                                                                                           |
|      | 70900806 | 1    | PIN, cotter, 1/8" x 1"                                                                                                                  |
| 14   | 70097494 | 3    | CAPSCREW, Nylok, 1/2"NC x 1"                                                                                                            |
|      | 70904208 | 3    | LOCKWASHER, 1/2"                                                                                                                        |
| 15   | 70634650 | 2    | CAPSCREW, lever stop (3/8"NC x 1-1/2")                                                                                                  |
|      | 70911034 | 2    | NUT, jam, 3/8"NC                                                                                                                        |





THROTTLE CONTROL

T-70538

# THROTTLE CONTROL

| ITEM | PART NO. | QTY. | DESCRIPTION                                                           |
|------|----------|------|-----------------------------------------------------------------------|
| 1    | 70090020 | 1    | KNOB, operating lever                                                 |
| 2    | 70631975 | 1    | LEVER, operating                                                      |
| 3    | -----    | 1    | SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)              |
| 4    | 70632059 | 1    | ROD, upper (15-1/8" long)(Used prior to tractor #6799)                |
|      | 70631987 | 1    | ROD, upper (14-5/8" long)(Effective with tractor #6799)               |
| 5    | 70078810 | 8    | PIN, yoke, control rod                                                |
|      | 70900942 | 8    | PIN, cotter, 3/32" x 5/8"                                             |
| 6    | 70081094 | 1    | BELLCRANK, upper rod                                                  |
| 7    | 70096409 | 1    | SPACER, bellcrank (4-3/16" long) (Used prior to tractor #7536)        |
| 8    | 70081132 | 1    | SPACER, bellcrank (5/16" thick) (Used prior to tractor #7514)         |
| 8A   | 70052225 | 1    | RING, snap, bellcrank retaining (Effective with tractor #7536)        |
| 9    | 70634074 | 1    | YOKE, upper rod                                                       |
| 10   | 70641733 | 1    | ROD, intermediate, upper (14-1/8" long)(Used prior to tractor #6799)  |
|      | 70645045 | 1    | ROD, intermediate, upper (14-3/4" long)(Effective with tractor #6799) |
|      | 70911048 | 1    | NUT, jam, 3/8"NF                                                      |
| 11   | 70631683 | 1    | FRICITION ASSEMBLY (Includes items 13 thru 18)                        |
| 12   | 70614478 | 2    | CAPSCREW, 1/2"NF x 1-3/8"                                             |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                      |
|      | 70911043 | 2    | NUT, 1/2"NF                                                           |
|      | 70910244 | 2    | WASHER, plain, SAE std., 1/2"                                         |
|      | 70900806 | 1    | PIN, cotter, 1/8" x 1"                                                |
| 13   | 70631682 | 1    | SHAFT, friction                                                       |
|      | 70904369 | 1    | LOCKWASHER, 3/4"                                                      |
|      | 70916591 | 1    | NUT, elastic stop, 3/4"NF                                             |
| 14   | 70632716 | 2    | KEY, friction washer                                                  |
| 15   | 70632710 | 2    | WASHER, friction                                                      |
| 16   | 70632747 | 2    | DISC, friction                                                        |
| 17   | 70632766 | 1    | HOUSING ASSEMBLY, friction (Includes item 18)                         |
| 18   | 70632752 | 1    | BUSHING, friction housing                                             |
| 19   | 70631494 | 1    | LEVER ASSEMBLY, friction shaft (Includes item 21)                     |
| 20   | 70041981 | 1    | CAPSCREW, 5/16"NF x 1-1/2"                                            |
|      | 70904205 | 1    | LOCKWASHER, 5/16"                                                     |
|      | 70913636 | 1    | NUT, 5/16"NF                                                          |
| 21   | 70624584 | 1    | BUSHING, friction shaft lever                                         |
| 22   | 70632756 | 1    | KEY, friction shaft lever                                             |
| 23   | 70631496 | 1    | LEVER ASSEMBLY, intermediate lower rod (Includes items 24 and 25)     |

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# THROTTLE CONTROL (Continued)

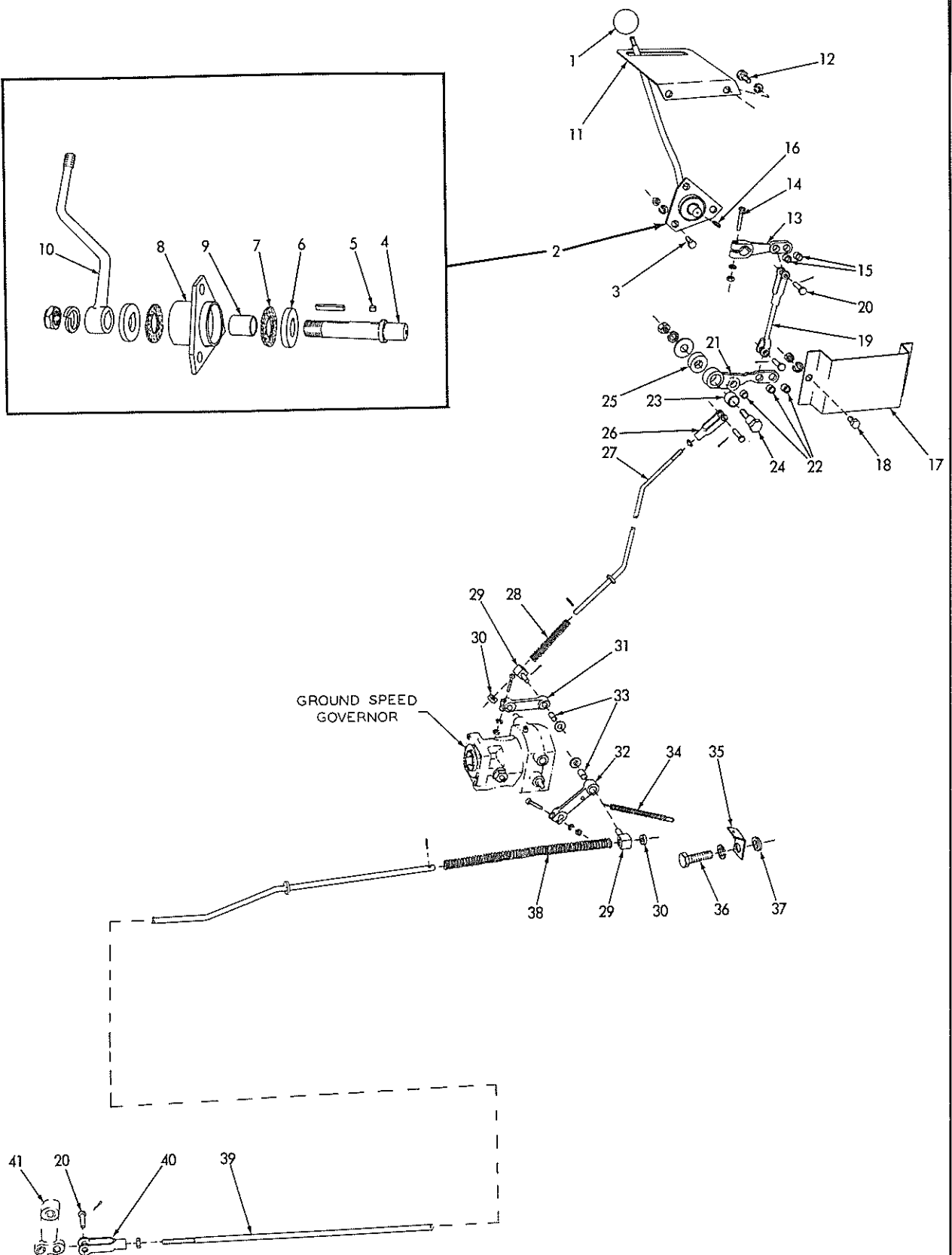
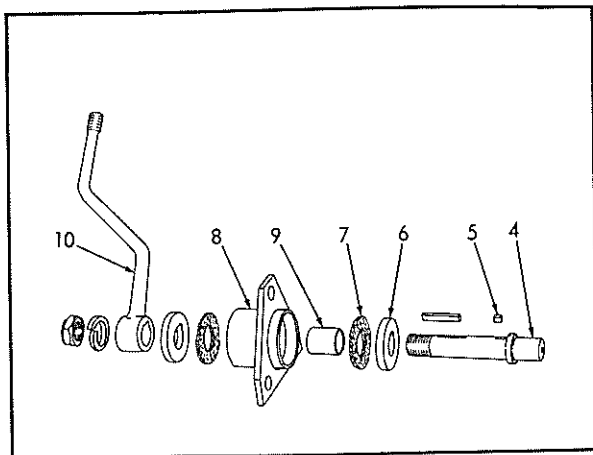
| ITEM | PART NO. | QTY. | DESCRIPTION                                                                    |
|------|----------|------|--------------------------------------------------------------------------------|
| 24   | 70631476 | 1    | BUSHING, intermediate lower rod lever (large)                                  |
| 25   | 70624584 | 2    | BUSHING, intermediate lower rod lever (small)                                  |
| 26   | 70631649 | 1    | ROD, intermediate, lower                                                       |
| 27   | 70642165 | 1    | BELLCRANK ASSEMBLY, lower rod (Includes items 28, 29 and 30)                   |
| 28   | 70624584 | 1    | BUSHING, bellcrank (3/8" long)                                                 |
| 29   | 70631476 | 1    | BUSHING, bellcrank (7/8" long)                                                 |
| 30   | 70624585 | 1    | BUSHING, bellcrank (1/4" long)                                                 |
| 31   | 70634650 | 2    | CAPSCREW, lever stop (3/8"NC x 1-1/2")                                         |
|      | 70911034 | 2    | NUT, jam, 3/8"NC                                                               |
| 32   | 70644633 | 1    | ROD, lower                                                                     |
|      | 70910267 | 1    | NUT, jam, 1/4"NF                                                               |
| 33   | 70628737 | 1    | YOKE, lower rod                                                                |
| 34   | 70628738 | 2    | PIN, yoke, lower rod                                                           |
|      | 70900970 | 2    | PIN, cotter, 1/16" x 1/2"                                                      |
| 35   | 70631498 | 1    | LEVER ASSEMBLY, decelerator rod (Includes items 36 and 37)                     |
| 36   | 70631476 | 1    | BUSHING, decelerator lever (large)                                             |
| 37   | 70624584 | 1    | BUSHING, decelerator lever (small)                                             |
| 38   | 70631652 | 1    | ROD, decelerator                                                               |
|      | 70911048 | 1    | NUT, jam, 3/8"NF                                                               |
| 39   | 70628736 | 1    | YOKE, decelerator rod                                                          |
| 40   | 70631643 | 1    | PEDAL ASSEMBLY, decelerator (Includes items 41 and 42)                         |
| 41   | 70063222 | 2    | BUSHING, decelerator pedal (large)                                             |
| 42   | 70624584 | 1    | BUSHING, decelerator pedal (small)                                             |
| 43   | 70631646 | 1    | SHAFT, decelerator pedal                                                       |
|      | 70918111 | 1    | PIN, spring, 1/8" x 1"                                                         |
| 44   | 70916424 | 1    | CAPSCREW, pedal stop (1/2"NF)(Early units)                                     |
|      | 70913830 | 1    | NUT, jam, 1/2"NF                                                               |
|      | 70916319 | 1    | CAPSCREW, pedal stop (1/2"NC)(Late units)                                      |
|      | 70911035 | 1    | NUT, jam, 1/2"NC                                                               |
| 45   | 70072438 | 1    | SPRING, retracting, decelerator rod (For units with GROUND SPEED GOVERNOR)     |
| 46   | 70043881 | 1    | SPRING, retracting, intermediate rod (For units without GROUND SPEED GOVERNOR) |

## GOVERNOR CONTROL LINKAGE

USAGE: { For units with GROUND SPEED GOVERNOR only

| ITEM | PART NO. | QTY. | DESCRIPTION                                                 |
|------|----------|------|-------------------------------------------------------------|
| 1    | 70090020 | 1    | KNOB, friction lever                                        |
| 2    | 70632178 | 1    | FRICITION ASSEMBLY (Includes items 4 thru 10)               |
| 3    | 70035167 | 3    | CAPSCREW, 3/8"NF x 7/8"                                     |
|      | 70904206 | 3    | LOCKWASHER, 3/8"                                            |
|      | 70911041 | 3    | NUT, 3/8"NF                                                 |
| 4    | 70632162 | 1    | SHAFT, friction                                             |
|      | 70915569 | 1    | KEY, straight, 3/16" x 3/16" x 1-1/8"                       |
|      | 70904369 | 1    | LOCKWASHER, 3/4"                                            |
|      | 70914452 | 1    | NUT, elastic stop, 3/4"NF                                   |
| 5    | 70632716 | 1    | KEY, friction washer                                        |
| 6    | 70632710 | 2    | WASHER, friction                                            |
| 7    | 70632747 | 2    | DISC, friction                                              |
| 8    | 70632771 | 1    | HOUSING ASSEMBLY, friction (Includes item 9)                |
| 9    | 70632752 | 1    | BUSHING, friction housing                                   |
| 10   | 70633216 | 1    | LEVER, friction                                             |
| 11   | 70632177 | 1    | GUIDE, friction lever                                       |
| 12   | 70916268 | 2    | CAPSCREW, 3/8"NC x 5/8"                                     |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                            |
| 13   | 70640415 | 1    | LEVER ASSEMBLY, upper rod (Includes item 15)                |
| 14   | 70041981 | 1    | CAPSCREW, 5/16"NF x 1-1/2"                                  |
|      | 70904205 | 1    | LOCKWASHER, 5/16"                                           |
|      | 70913636 | 1    | NUT, 5/16"NF                                                |
| 15   | 70624584 | 2    | BUSHING, upper rod lever                                    |
| 16   | 70632756 | 1    | KEY, upper rod lever                                        |
| 17   | 70632175 | 1    | SHIELD, protecting                                          |
| 18   | 70035979 | 2    | CAPSCREW, 3/8"NF x 5/8"                                     |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                            |
|      | 70911041 | 2    | NUT, 3/8"NF                                                 |
| 19   | 70640489 | 1    | ROD, upper                                                  |
| 20   | 70078810 | 4    | PIN, control rod yoke                                       |
|      | 70900942 | 4    | PIN, cotter, 3/32" x 5/8"                                   |
| 21   | 70640378 | 1    | LEVER ASSEMBLY, intermediate rod (Includes items 22 and 23) |
| 22   | 70624584 | 3    | BUSHING, intermediate rod lever (small)                     |
| 23   | 70639785 | 1    | BUSHING, intermediate rod lever (large)                     |
| 24   | 70640367 | 1    | CAPSCREW, pivot, intermediate rod lever                     |
|      | 70900818 | 1    | WASHER, plain, U.S. std., 1/2"                              |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                            |
|      | 70911043 | 1    | NUT, 1/2"NF                                                 |

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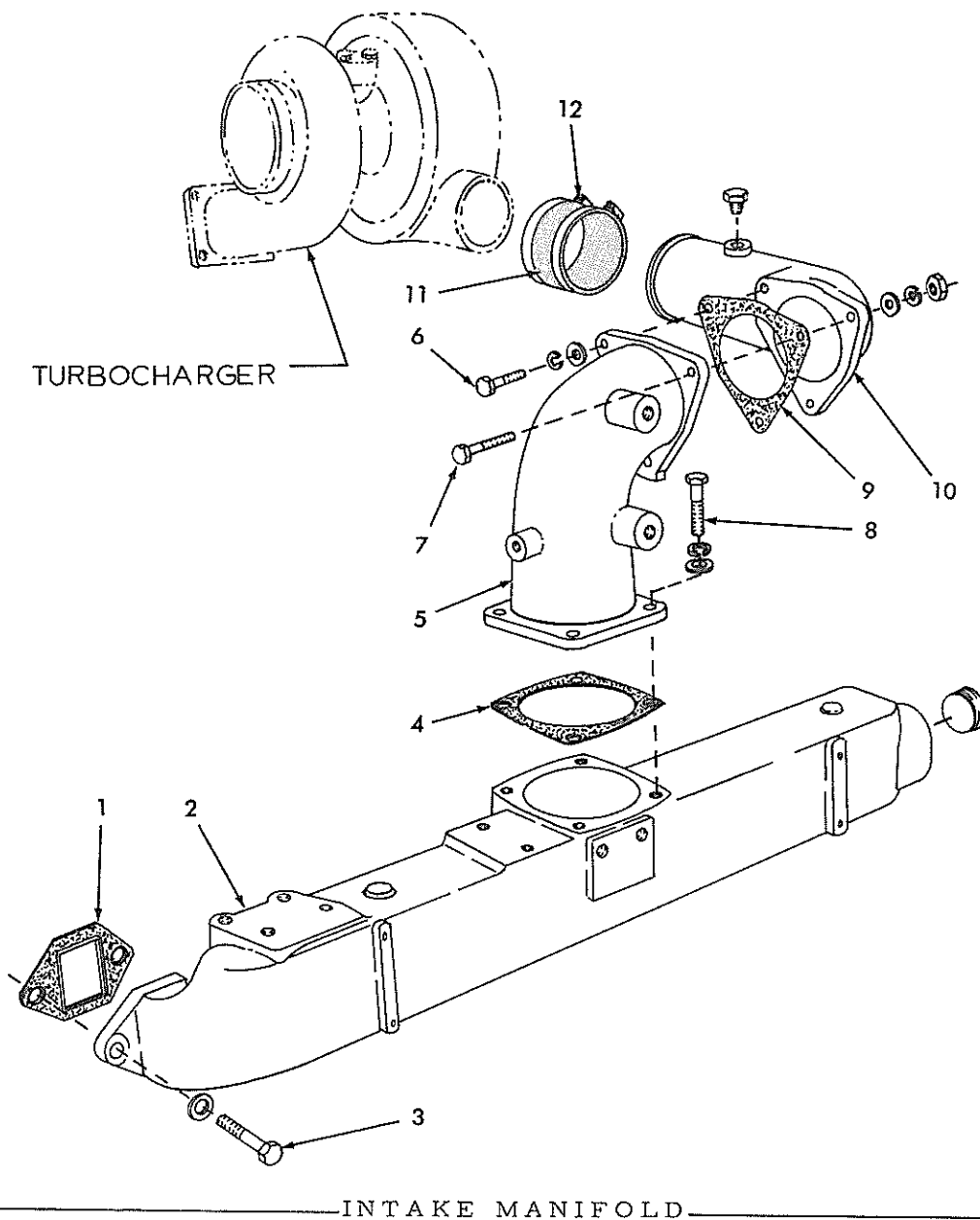


GOVERNOR CONTROL LINKAGE

T-41785

## GOVERNOR CONTROL LINKAGE (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                         |
|------|----------|------|-----------------------------------------------------|
| 25   | 70091553 | 1    | SPACER, intermediate rod lever                      |
| 26   | 70628736 | 1    | YOKE, intermediate rod                              |
| 27   | 70640418 | 1    | ROD, intermediate                                   |
|      | 70911048 | 1    | NUT, jam, 3/8"NF                                    |
|      | 70916168 | 1    | PIN, spring, 1/8" x 3/4"                            |
| 28   | 70070212 | 1    | SPRING, intermediate rod                            |
| 29   | 70628116 | 2    | EYE, swivel, governor lever                         |
|      | 70911115 | 2    | WASHER, plain, SAE std., 3/8"                       |
|      | 70900942 | 2    | PIN, cotter, 3/32" x 5/8"                           |
| 30   | 70081672 | 2    | SPACER, control rod                                 |
| 31   | 70624624 | 1    | LEVER ASSEMBLY, governor inner (Includes item 33)   |
|      | 70912177 | 1    | CAPSCREW, 1/4"NF x 1-1/4"                           |
|      | 70904204 | 1    | LOCKWASHER, 1/4"                                    |
|      | 70911040 | 1    | NUT, 1/4"NF                                         |
| 32   | 70630331 | 1    | LEVER ASSEMBLY, governor, outer, (Includes item 33) |
|      | 70912177 | 1    | CAPSCREW, 1/4"NF x 1-1/4"                           |
|      | 70904204 | 1    | LOCKWASHER, 1/4"                                    |
|      | 70911040 | 1    | NUT, 1/4"NF                                         |
| 33   | 70628138 | 2    | BUSHING, governor lever                             |
| 34   | 70621614 | 1    | SPRING, retracting governor lever                   |
| 35   | 70631657 | 1    | CLIP, spring retaining                              |
| 36   | 70035073 | 1    | CAPSCREW, 1/2"NF x 1-3/4"                           |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                    |
| 37   | 70058614 | 1    | WASHER, plain (For spacing)                         |
| 38   | 70088491 | 1    | SPRING, lower rod                                   |
| 39   | 70631654 | 1    | ROD, lower                                          |
|      | 70911048 | 1    | NUT, jam, 3/8"NF                                    |
|      | 70916168 | 1    | PIN, spring, 1/8" x 3/4"                            |
| 40   | 70628736 | 1    | YOKE, lower rod                                     |
| 41   | -----    | 1    | LEVER (See THROTTLE CONTROL)                        |



T-75911

\*Engines without turbocharger (Standard)  
 \*\*Engines with turbocharger (Optional)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                     |
|------|----------|------|----|---------------------------------|
|      |          | *    | ** |                                 |
| 1    | 74387697 | 6    | 6  | GASKET, intake manifold         |
| 2    | 74393547 | 1    | 1  | MANIFOLD, air intake            |
|      | 70922420 | 1    | 1  | PLUG, pipe, ctsk-hd., 1-1/4"NPT |

(Continued)

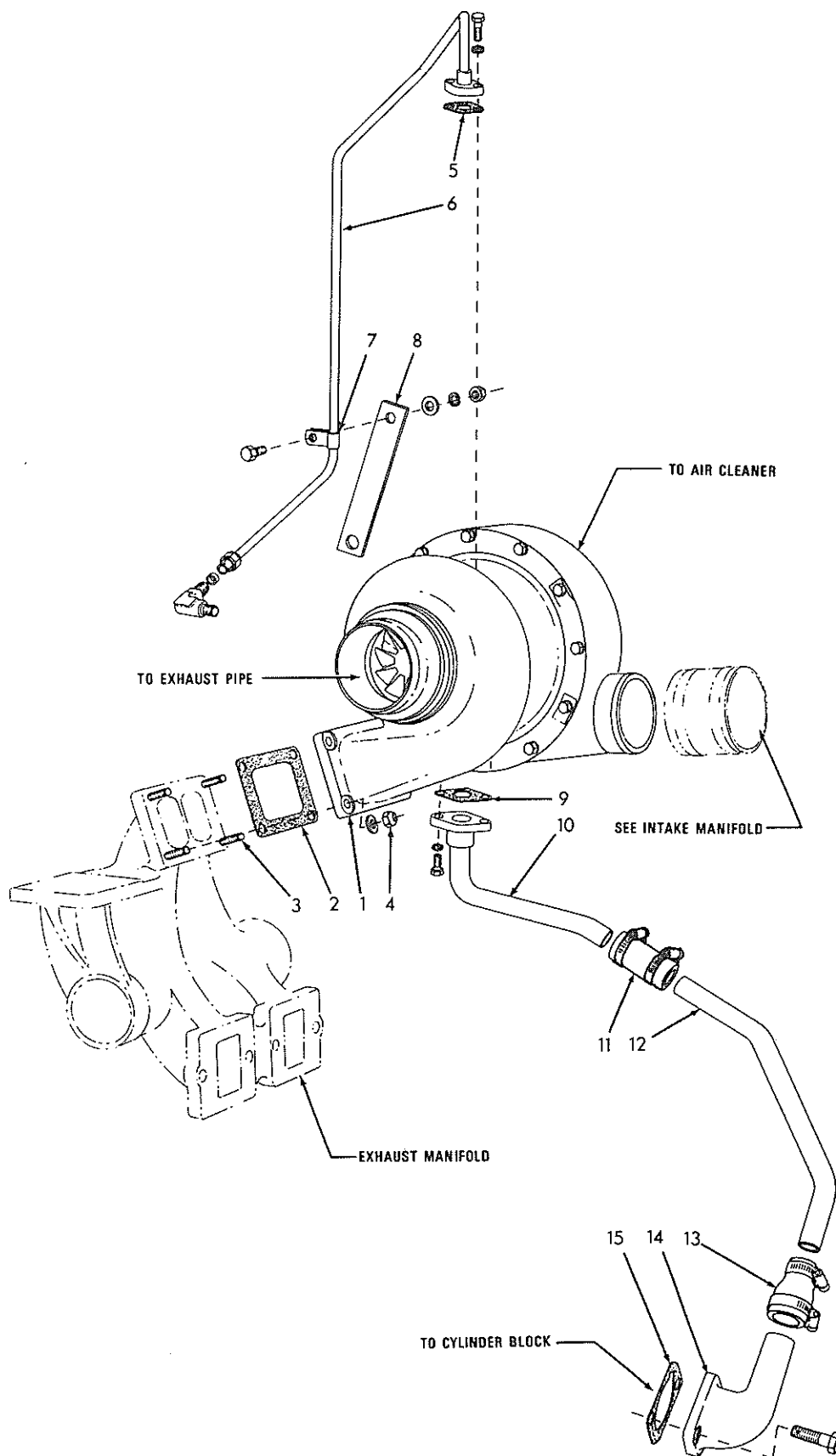
(Revised January 1979)

# INTAKE MANIFOLD (Continued)

| ITEM | PART NO. | QTY.<br>* ** |    | DESCRIPTION                                                                   |                                        |
|------|----------|--------------|----|-------------------------------------------------------------------------------|----------------------------------------|
| 3    | 74367187 | 2            | -  | STUD (2" long)                                                                | Used prior to<br>engine #16-05386      |
|      | 74386041 | 10           | -  | STUD (2-5/16" long)                                                           |                                        |
|      | 70904208 | 12           | -  | LOCKWASHER, 1/2"                                                              |                                        |
|      | 70910195 | 12           | -  | NUT, 1/2"NF                                                                   |                                        |
|      | 74255895 | 8            | 8  | CAPSCREW, manifold attaching (1-1/4" long)                                    | Effective with<br>Engine<br># 16-05386 |
|      | 74255914 | 4            | 4  | CAPSCREW, manifold attaching (1-1/2" long)                                    |                                        |
|      | 70910244 | 12           | 12 | WASHER, plain SAE std., 1/2"                                                  |                                        |
| 4    | 74361551 | -            | 1  | GASKET, elbow to manifold                                                     |                                        |
| 5    | 74389334 | -            | 1  | ELBOW air intake (lower)                                                      |                                        |
|      | 70919840 | -            | 2  | PLUG pipe, hex-hd., 1/4"NPT (Not used when engine<br>air heater is installed) |                                        |
| 6    | 70916272 | -            | 1  | CAPSCREW, 3/8"NC x 1-1/4"                                                     |                                        |
| 7    | 70916273 | -            | 2  | CAPSCREW 3/8"NC x 1-1/2"                                                      |                                        |
|      | 70911115 | -            | 3  | WASHER plain, SAE std., 3/8"                                                  |                                        |
|      | 70904206 | -            | 3  | LOCKWASHER, 3/8"                                                              |                                        |
|      | 70910324 | -            | 2  | NUT, 3/8"NC                                                                   |                                        |
| 8    | 70915987 | -            | 4  | CAPSCREW, 1/2"NC x 1-1/2"                                                     |                                        |
|      | 70904208 | -            | 4  | LOCKWASHER, 1/2"                                                              |                                        |
|      | 70912333 | -            | 4  | WASHER, plain                                                                 |                                        |
| 9    | 74374774 | -            | 1  | GASKET, lower elbow to upper elbow                                            |                                        |
| 10   | 74379562 | -            | 1  | ELBOW, air intake (upper)                                                     |                                        |
|      | 70919840 | -            | 1  | PLUG, pipe, hex-hd., 1/4"NPT (Not used when engine<br>primer is installed)    |                                        |
| 11   | 74388349 | -            | 1  | HOSE, elbow to turbocharger                                                   |                                        |
| 12   | 74255644 | -            | 2  | CLAMP, hose                                                                   |                                        |

(Added June 1970)





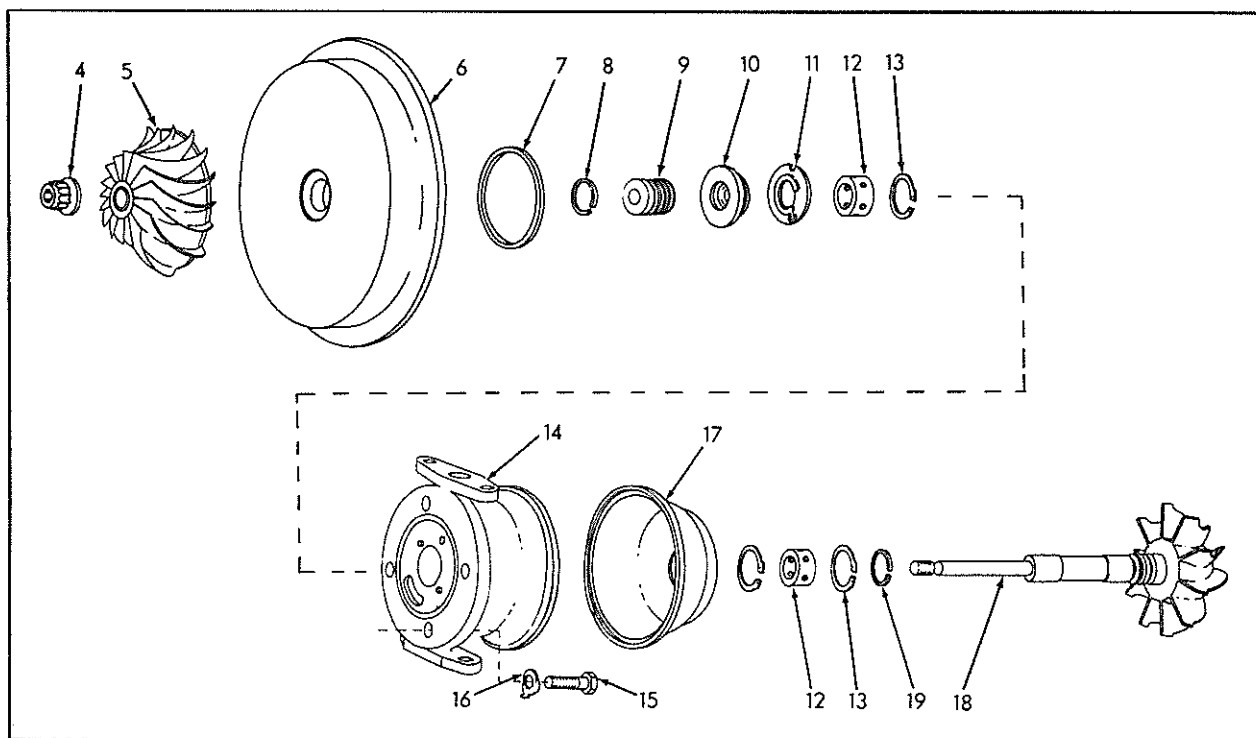
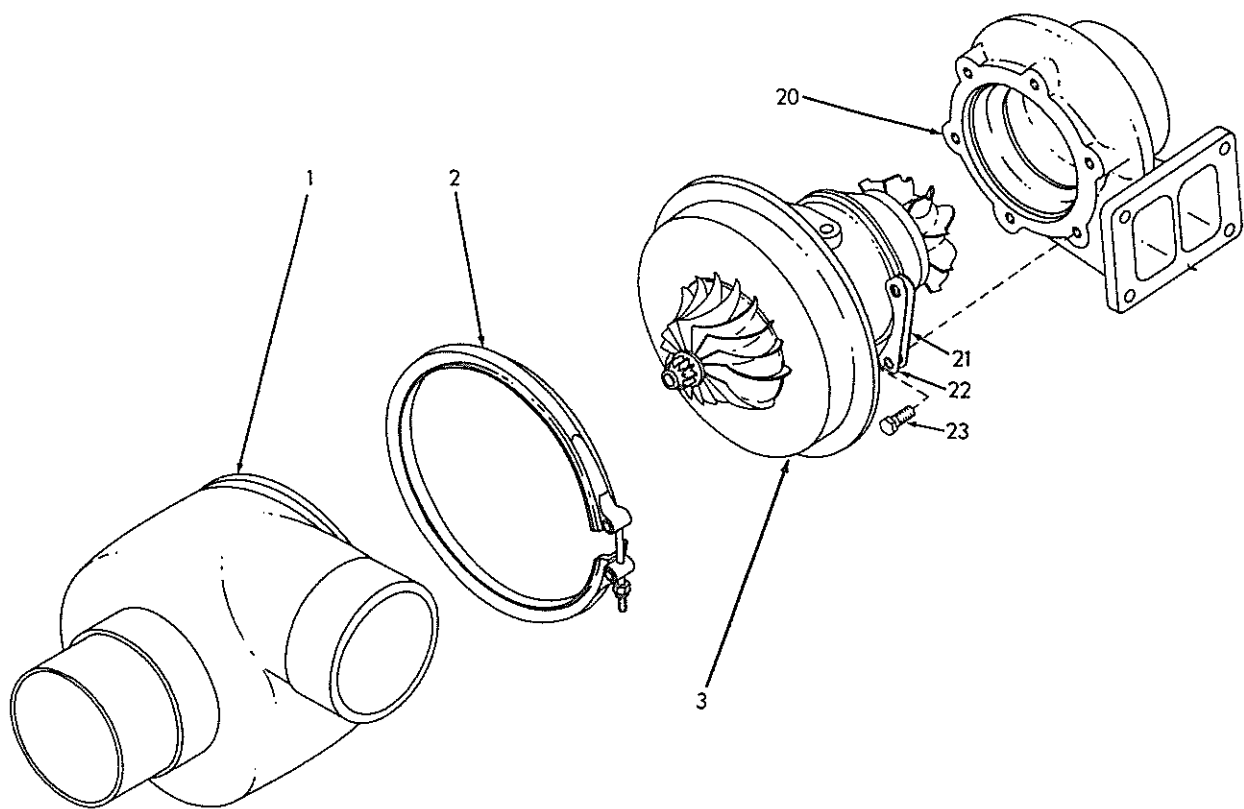
TURBOCHARGER CONNECTIONS

T-75822

# TURBOCHARGER CONNECTIONS

USAGE: Special equipment

| ITEM | PART NO. | QTY. | DESCRIPTION                                                          |
|------|----------|------|----------------------------------------------------------------------|
| 1    | -----    | 1    | TURBOCHARGER ASSY. (See page 74E)                                    |
| 2    | 74336558 | 1    | GASKET, turbocharger to manifold                                     |
| 3    | 74339535 | 4    | STUD, turbocharger attaching                                         |
| 4    | 74255977 | 4    | NUT                                                                  |
|      | 70913544 | 4    | WASHER, plain                                                        |
| 5    | 74339533 | 1    | GASKET, oil supply line flange                                       |
| 6    | 74391346 | 1    | TUBE ASSY., oil supply line (Includes NUT and SLEEVE indented below) |
|      | 70917810 | 1    | NUT, Imperial, 3/8" tube                                             |
|      | 70917807 | 1    | SLEEVE, Imperial, 3/8" tube                                          |
|      | 70919005 | 1    | ELBOW, Imperial, 90°, 3/8" tube, 3/8"NPT male                        |
|      | 70916269 | 2    | CAPSCREW, 3/8"NC x 7/8"                                              |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                     |
| 7    | 74378298 | 1    | CLAMP tube                                                           |
|      | 70915408 | 1    | CAPSCREW, 3/8"NC x 3/4"                                              |
|      | 70912007 | 1    | WASHER, plain, 3/8"                                                  |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                                     |
|      | 70910324 | 1    | NUT, 3/8"NC                                                          |
| 8    | 74391634 | 1    | BRACKET, tube clamp                                                  |
| 9    | 74339532 | 1    | GASKET oil drain line, upper                                         |
| 10   | 74390202 | 1    | TUBE, oil drain line, upper                                          |
|      | 70916269 | 2    | CAPSCREW, 3/8"NC x 7/8"                                              |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                     |
| 11   | 74387906 | 1    | HOSE, oil drain line                                                 |
|      | 70921911 | 2    | CLAMP, hose (11/16" to 1-1/4" diam)                                  |
| 12   | 74379913 | 1    | TUBE oil drain line, lower                                           |
| 13   | 74379723 | 1    | ADAPTER, oil drain line                                              |
|      | 70921911 | 1    | CLAMP hose (11/16" to 1-1/4" diam.)                                  |
|      | 70921912 | 1    | CLAMP hose (1-1/16" to 2" diam.)                                     |
| 14   | 74379672 | 1    | ELBOW oil drain line                                                 |
|      | 70921865 | 2    | CAPSCREW, Nylok, 1/2"NC x 1"                                         |
| 15   | 74310257 | 1    | GASKET, oil drain line elbow                                         |



TURBOCHARGER ASSEMBLY

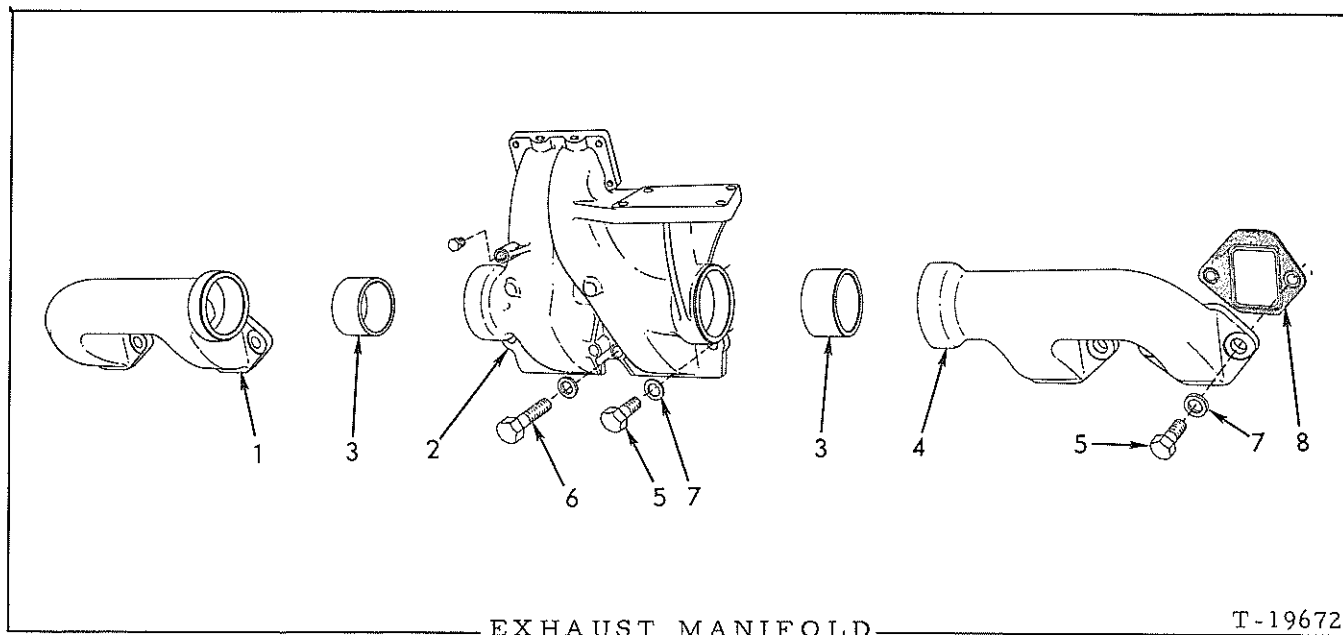
T-70408

# TURBOCHARGER ASSEMBLY

USAGE: See page 74C

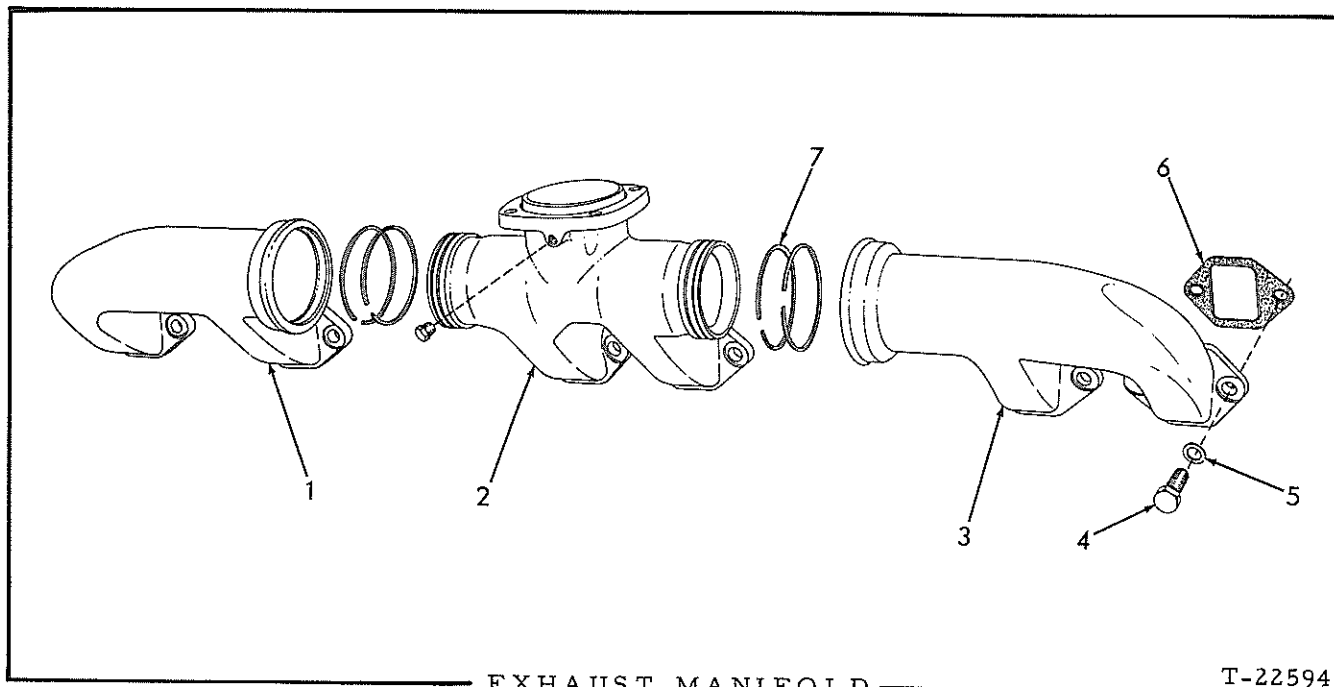
| ITEM | PART NO. | QTY. | DESCRIPTION                                                           |
|------|----------|------|-----------------------------------------------------------------------|
| -    | 74392272 | 1    | TURBOCHARGER ASSY. (TE 0673)(Includes items 1 thru 23)                |
| 1    | 74060051 | 1    | HOUSING ASSY., compressor (Includes impeller shroud and locating pin) |
| 2    | 74060052 | 1    | COUPLING, compressor housing                                          |
| 3    | 74060053 | 1    | HOUSING ASSY. center (Consists of items 4 thru 19)                    |
| 4    | 74056291 | 1    | LOCKNUT, impeller retaining                                           |
| 5    | 74060056 | 1    | IMPELLER, compressor                                                  |
| 6    | 74059030 | 1    | BACKPLATE ASSY. (Includes thrust washer and orifice pin)              |
| 7    | 74056300 | 1    | RING, end plate sealing                                               |
| 8    | 74055195 | 1    | RING, sealing, turbine wheel shaft, compressor end                    |
| 9    | 74056289 | 1    | SPACER, thrust                                                        |
| 10   | 74059029 | 1    | COLLAR, thrust                                                        |
| 11   | 74056294 | 1    | BEARING, thrust                                                       |
| 12   | 74056295 | 2    | BEARING, turbine wheel                                                |
| 13   | 74056296 | 3    | RING, snap, bearing retaining                                         |
| 14   | 74060054 | 1    | HOUSING ASSY., center (Includes dowels)                               |
| 15   | 74181061 | 4    | BOLT, backplate attaching                                             |
| 16   | 74056298 | 4    | LOCKPLATE, back plate attaching bolt                                  |
| 17   | 74056293 | 1    | SHROUD, heat, turbine end                                             |
| 18   | 74060055 | 1    | WHEEL, turbine                                                        |
| 19   | 74060057 | 1    | RING, sealing, turbine wheel shaft, exhaust end                       |
| 20   | 74059019 | 1    | HOUSING, turbine                                                      |
| 21   | 74056306 | 3    | PLATE, clamp, center housing                                          |
| 22   | 74056305 | 3    | LOCKPLATE, clamp plate bolt                                           |
| 23   | 74056314 | 6    | BOLT, clamp plate (3/8"NC x 5/8")                                     |

(Added June 1970)



USAGE: For engines equipped with turbocharger

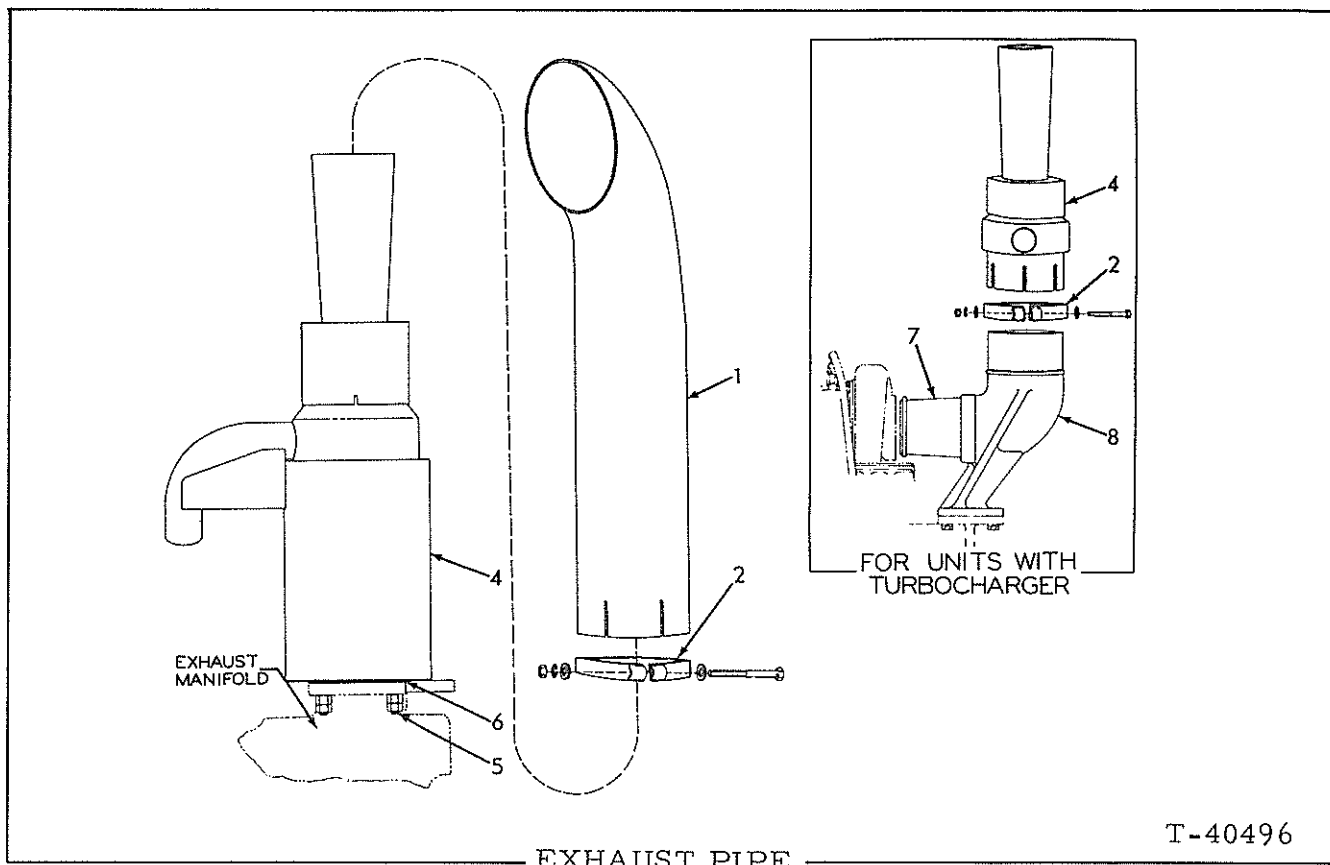
| ITEM | PART NO. | QTY. | DESCRIPTION                                |
|------|----------|------|--------------------------------------------|
| 1    | 74374694 | 1    | MANIFOLD, rear section                     |
| 2    | 74387014 | 1    | MANIFOLD, exhaust, center section          |
|      | 70917425 | 2    | PLUG. pipe, hex-hd., brass, 1/4"NPT        |
| 3    | 74391425 | 2    | SLEEVE. connecting                         |
| 4    | 74374695 | 1    | MANIFOLD, front section                    |
| 5    | 70915987 | 10   | CAPSCREW. manifold attaching (1-1/2" long) |
| 6    | 70916317 | 2    | CAPSCREW. manifold attaching (2-3/4" long) |
| 7    | 74371107 | 12   | WASHER, manifold stud nut                  |
| 8    | 74387697 | 6    | GASKET, manifold                           |



USAGE: For engines without turbocharger

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                   |
|------|----------|------|-------------------------------------------------------------------------------|
| 1    | 74376892 | 1    | MANIFOLD, rear section                                                        |
| 2    | 74393544 | 1    | MANIFOLD, center section                                                      |
|      | 70917425 | 1    | PLUG, pipe, hex-hd., brass, 1/4"NPT                                           |
| 3    | 74376891 | 1    | MANIFOLD, front section                                                       |
| 4    | 74346208 | 12   | STUD, exhaust manifold (2-1/8" long)(Used prior to engine #16-05386)          |
|      | 74253270 | 12   |                                                                               |
|      | 70915987 | 12   | CAPSCREW, exhaust manifold (1/2"NC x 1-1/2")(Effective with engine #16-05386) |
| 5    | 74371107 | 12   | WASHER, manifold capscREW and stud nut                                        |
| 6    | 74375865 | 6    | GASKET, exhaust manifold                                                      |
| 7    | 74366243 | 4    | RING, sealing                                                                 |

(Revised June 1970)



USAGE: Tractors serial No. 5937 thru 9550; also 64A09551 thru 64A09571

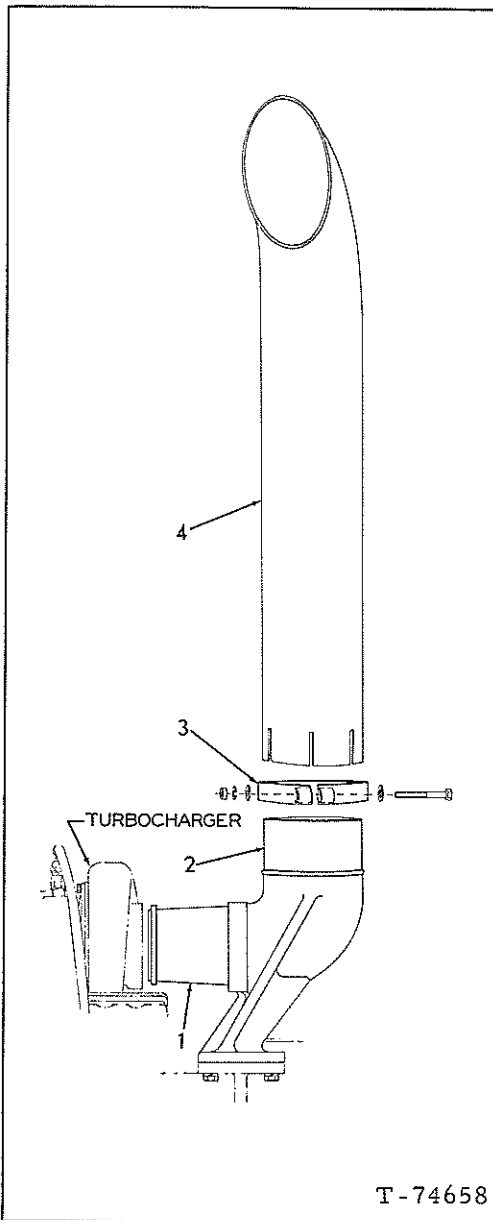
\* For engines without turbocharger  
 \*\* For engines with turbocharger

| ITEM                                                        | PART NO. | QTY. |    | DESCRIPTION                                  |
|-------------------------------------------------------------|----------|------|----|----------------------------------------------|
|                                                             |          | *    | ** |                                              |
| <u>NOTE:</u> Also see page 77 for special EXHAUST EXTENSION |          |      |    |                                              |
| 1                                                           | 70630158 | 1    | 1  | PIPE exhaust                                 |
| 2                                                           | 70629755 | 1    | 2  | CLAMP ASSY. exhaust pipe (Includes hardware) |
| 4                                                           | 70640159 | 1    | -  | ASPIRATOR, air cleaner                       |
|                                                             | 70644081 | -    | 1  | ASPIRATOR, air cleaner                       |
| 5                                                           | 74339378 | 4    | -  | STUD attaching                               |
|                                                             | 70917260 | 8    | -  | NUT, brass, 1/2"NC                           |
| 6                                                           | 74366244 | 1    | -  | GASKET, exhaust flange                       |
| 7                                                           | 74390172 | -    | 1  | DIFFUSER, exhaust                            |
| 8                                                           | 74390080 | -    | 1  | ELBOW, exhaust                               |
|                                                             | 70919230 | -    | 4  | CAPSCREW, 1/2"NC x 1-3/8"                    |
|                                                             | 70904208 | -    | 4  | LOCKWASHER, 1/2"                             |

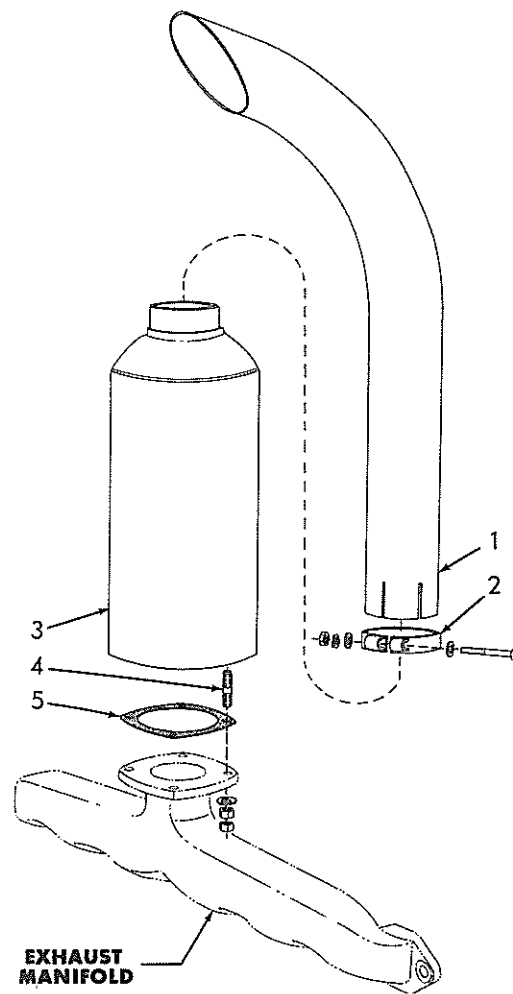
## EXHAUST PIPE

USAGE: Tractors serial No. 64A09572 and up.  
For engines equipped with turbocharger.

| ITEM | PART NO. | QTY. | DESCRIPTION                  |
|------|----------|------|------------------------------|
| 1    | 74390172 | 1    | DIFFUSER, exhaust            |
| 2    | 74390080 | 1    | ELBOW, exhaust               |
|      | 70919230 | 4    | CAPSCREW, 1/2"NC x<br>1-3/8" |
|      | 70904208 | 4    | LOCKWASHER, 1/2"             |
| 3    | 70629755 | 1    | CLAMP ASSY. exhaust pipe     |
|      | 70919227 | 1    | (Includes hardware)          |
| 4    | 70096055 | 1    | PIPE, exhaust                |





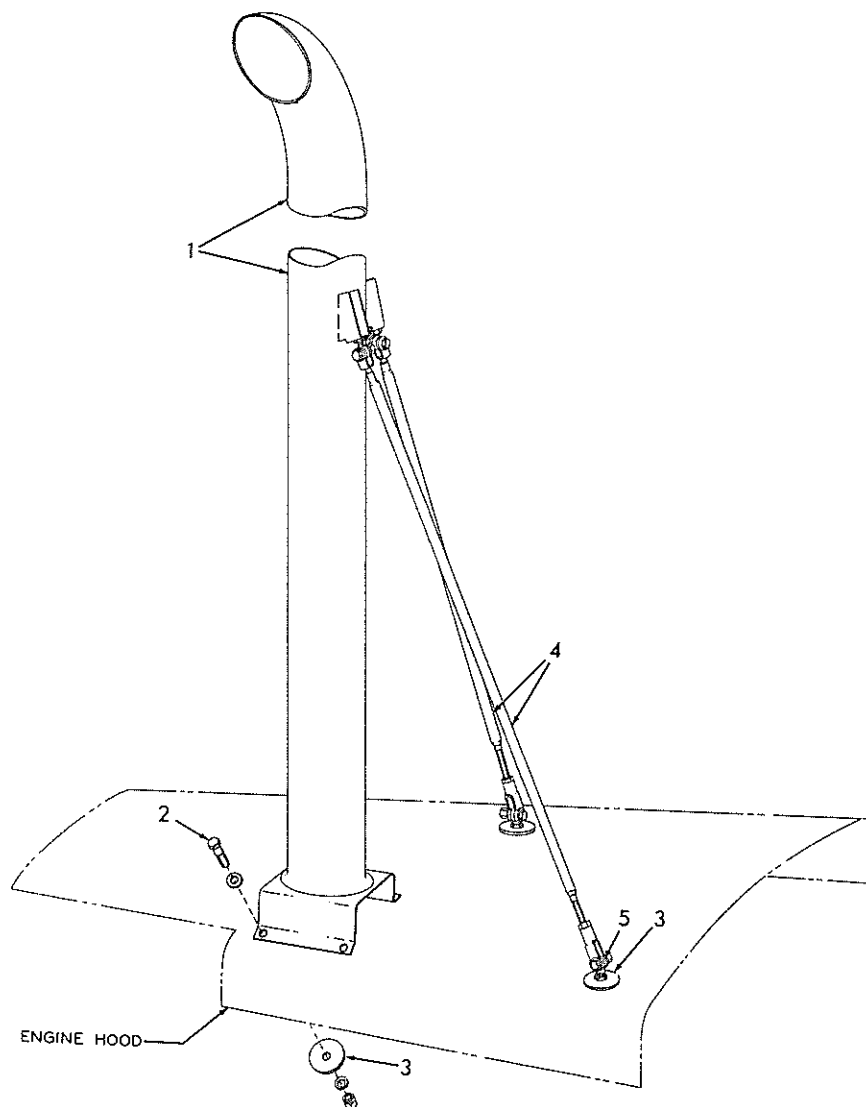


EXHAUST PIPE

T-27456

USAGE: Tractors serial No. 64A09572 and up. For engine without turbocharger.

| ITEM | PART NO. | QTY. | DESCRIPTION                 |
|------|----------|------|-----------------------------|
| 1    | 70662711 | 1    | PIPE exhaust                |
| 2    | 70634091 | 1    | CLAMP, exhaust pipe         |
|      | 70919227 | 1    | CAPSCREW, 3/8"NC x 3-1/4"   |
|      | 70044973 | 2    | WASHER, plain               |
|      | 70904206 | 1    | LOCKWASHER, 3/8"            |
|      | 70911026 | 1    | NUT, 3/8"NC                 |
| 3    | 70086770 | 1    | MUFFLER                     |
| 4    | 74339378 | 4    | STUD                        |
|      | 70917260 | 8    | NUT, brass, 1/2"NC          |
| 5    | 74366244 | 1    | GASKET, muffler to manifold |



EXHAUST EXTENSION

T-73608

USAGE: Special equipment

| ITEM | PART NO. | QTY. | DESCRIPTION                       |
|------|----------|------|-----------------------------------|
| 1    | 70655108 | 1    | TUBE, extension                   |
| 2    | 70035236 | 4    | CAPSCREW, 1/2"NC x 1-3/4"         |
|      | 70064531 | 4    | WASHER, plain                     |
|      | 70904208 | 4    | LOCKWASHER, 1/2"                  |
|      | 70911028 | 4    | NUT, 1/2"NC                       |
| 3    | 70085453 | 8    | WASHER, hood reinforcing          |
| 4    | 70655102 | 2    | ROD, bracing                      |
|      | 70911043 | 2    | NUT, 1/2"NF                       |
|      | 70917666 | 2    | YOKE, rod end, adjustable, 1/2"NF |
|      | 70912192 | 4    | CAPSCREW, 1/2"NF x 1-3/4"         |
|      | 70038234 | 4    | NUT, high, 1/2"NF                 |
| 5    | 70067902 | 4    | BOLT, eye                         |
|      | 70911043 | 8    | NUT, 1/2"NF                       |



# AIR CLEANER

USAGE: Tractors prior to serial No. 7437. Units without turbocharger.

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                              |
|------|----------|------|----------------------------------------------------------------------------------------------------------|
| 1    | 70630160 | 1    | CLEANER ASSEMBLY, air (Consists of items 6 thru 13A)                                                     |
| 2    | 70035061 | 1    | CAPSCREW, 1/2"NC x 1-1/4"                                                                                |
| 3    | 70036203 | 1    | CAPSCREW, 1/2"NC x 1-3/4"                                                                                |
|      | 70910244 | 1    | WASHER, plain, SAE std., 1/2"                                                                            |
| 4    | 70035018 | 2    | CAPSCREW, 1/2"NF x 1-1/2"                                                                                |
|      | 70904208 | 3    | LOCKWASHER, 1/2"                                                                                         |
|      | 70911043 | 2    | NUT, 1/2"NF                                                                                              |
| 5    | 70064531 | 5    | WASHER, plain (heavy)                                                                                    |
| 6    | 70634446 | 1    | CARTRIDGE, air cleaner                                                                                   |
| 7    | 70634443 | 1    | PANEL, pre-cleaner                                                                                       |
| 8    | 70634442 | 1    | HOUSING ASSEMBLY, air cleaner (Includes items 9 thru 13)                                                 |
|      | 70650959 | 1    | ADAPTER KIT, restriction indicator (Includes filter and items listed below)(Used prior to tractor #7296) |
| 9    | 70911048 | 1    | NUT, jam, 3/8"NF                                                                                         |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                                                                         |
|      | 70900817 | 1    | WASHER, plain, U.S. std., 3/8"                                                                           |
|      | 70638727 | 1    | GASKET, adapter                                                                                          |
|      | 70650302 | 1    | ADAPTER, restriction indicator (1/8"NPT nipple. Includes filter) (Effective with tractor #7296)          |
| 10   | 70196663 | 4    | T-BOLT, pre-cleaner panel                                                                                |
| 11   | 70650301 | 4    | SPRING, pre-cleaner panel T-bolt                                                                         |
| 12   | 70196662 | 4    | HOOK, pre-cleaner panel                                                                                  |
| 13   | 70056863 | 4    | NUT, wing, pre-cleaner panel bolt                                                                        |
| 13A  | 70659195 | 24   | WASHER, spring, pre-cleaner panel bolt                                                                   |
| 14   | 70630154 | 1    | BRACKET, supporting, air cleaner                                                                         |
| 15   | 70632673 | 1    | SHIELD, heat                                                                                             |
|      | 70911035 | 1    | NUT, jam, 1/2"NC                                                                                         |
|      | 70904208 | 1    | LOCKWASHER, 1/2"                                                                                         |
| 16   | 70064531 | 1    | WASHER, plain                                                                                            |
| 17   | 70081214 | 1    | HOSE, air cleaner to inlet elbow                                                                         |
|      | 70921916 | 4    | CLAMP, hose, 3-13/16" to 4-3/4" diam.                                                                    |
| 18   | 70097486 | 1    | ELBOW, air inlet                                                                                         |
| 19   | 70035061 | 4    | CAPSCREW, 1/2"NC x 1-1/4"                                                                                |
|      | 70904208 | 4    | LOCKWASHER, 1/2"                                                                                         |
| 20   | 74361551 | 1    | GASKET, air inlet elbow                                                                                  |
| 21   | 70630157 | 1    | HOSE, aspirator                                                                                          |
| 22   | 70185502 | 2    | CLAMP ASSEMBLY, aspirator hose                                                                           |
| 23   | 70645075 | 1    | HOSE, restriction indicator (See HOSE PARTS)                                                             |
|      | 70919174 | 2    | CONNECTOR, flare type, 1/4" tube, 1/8"NPT female                                                         |
|      | 70904273 | 1    | NIPPLE, pipe, 1/8"NPT x 1"                                                                               |

(Continued)

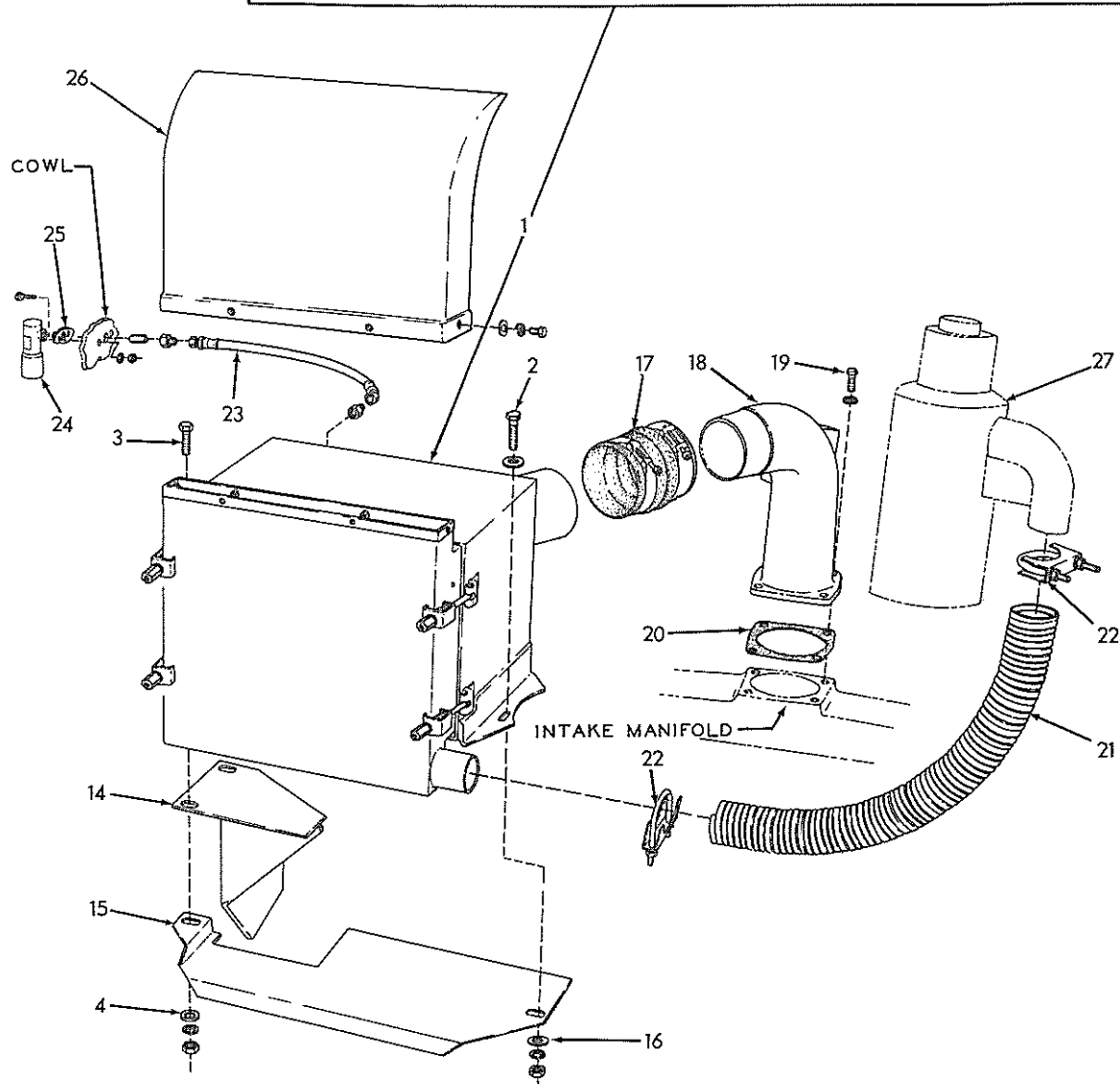
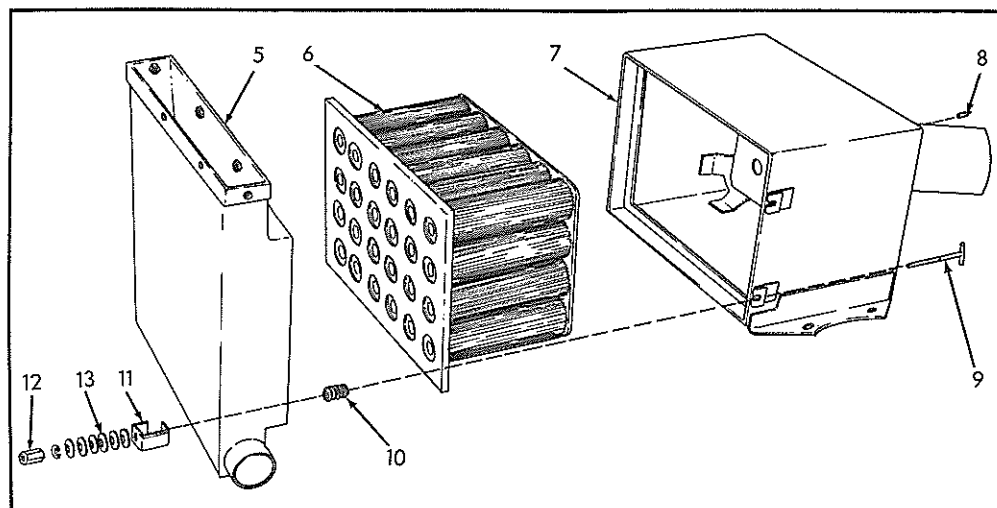
# AIR CLEANER (Continued)

| ITEM                                                  | PART NO. | QTY. | DESCRIPTION                                          |
|-------------------------------------------------------|----------|------|------------------------------------------------------|
| 24                                                    | 74388648 | 1    | INDICATOR, air restriction (Serviced only as a unit) |
| 24A                                                   | 73045531 | 1    | FLANGE, mounting, air restriction indicator          |
|                                                       | 70912789 | 2    | CAPSCREW, 1/4"NF x 3/4"                              |
|                                                       | 70904204 | 2    | LOCKWASHER, 1/4"                                     |
|                                                       | 70911040 | 2    | NUT, 1/4"NF                                          |
| 25                                                    | -----    | 1    | ASPIRATOR (See EXHAUST PIPE)                         |
| <u>NOTE:</u> Items listed below are special equipment |          |      |                                                      |
| 26                                                    | 70645028 | 1    | RAINCAP (Includes mounting clamp                     |
| 27                                                    | 70645033 | 1    | ADAPTOR, rain cap                                    |
| 28                                                    | 70651042 | 1    | PANEL, air intake (Replace standard                  |
|                                                       |          |      | PANEL 70634443)                                      |
| 29                                                    | 70650886 | 1    | ADAPTER, air intake                                  |
|                                                       | 70916248 | 6    | CAPSCREW, 1/4"NC x 1/2"                              |
|                                                       | 70904204 | 6    | LOCKWASHER, 1/4"                                     |
| 30                                                    | 70655140 | 4    | NUT, air intake panel                                |

FIRST TYPE

SECOND  
TYPE

## MEMO



AIR CLEANER (Second type)(Units without turbocharger)

T-72029

(Revised June 1970)

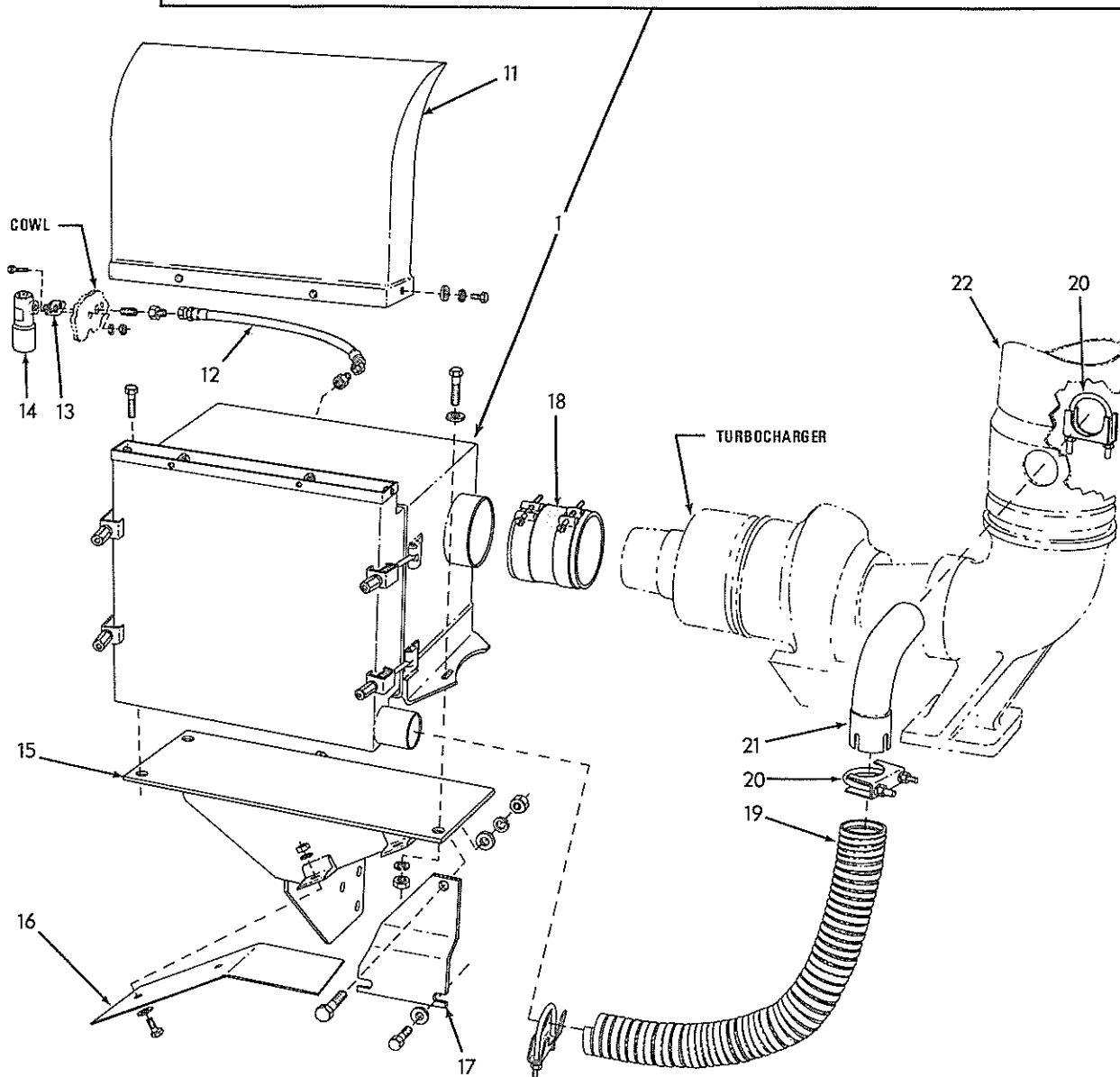
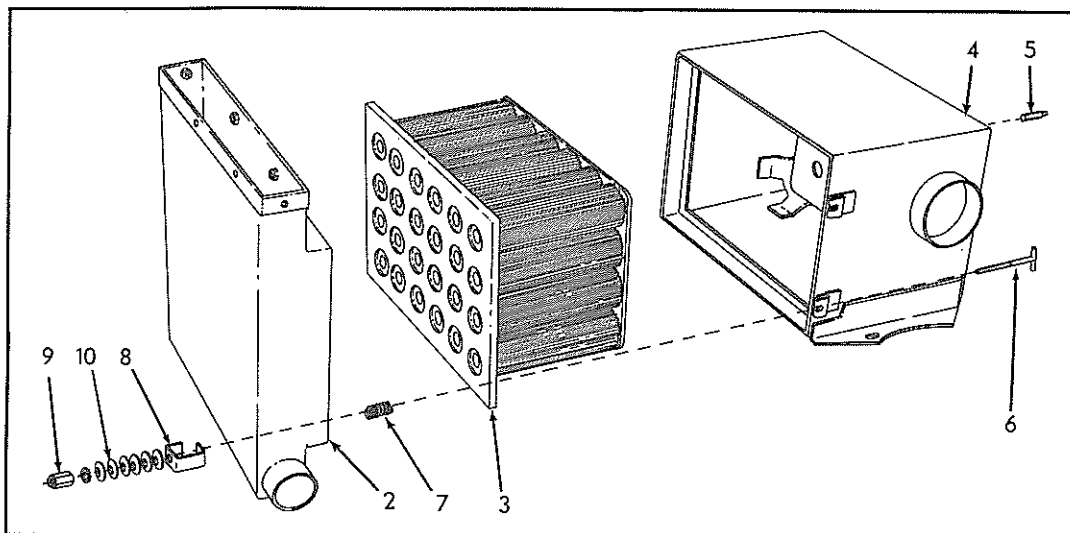
# AIR CLEANER (Second type)(Units without turbocharger)

USAGE: Units without turbocharger. Tractors serial No. 7437 and up; also serial No. 64A09551 thru 64A09571.

| ITEM                                                           | PART NO. | QTY. | DESCRIPTION                                                                        |
|----------------------------------------------------------------|----------|------|------------------------------------------------------------------------------------|
| <u>NOTE:</u> Also see page 84 for special AIR INTAKE EXTENSION |          |      |                                                                                    |
| 1                                                              | 70650911 | 1    | CLEANER ASSY., air (Consists of items 5 thru 13)                                   |
| 2                                                              | 70036203 | 1    | CAPSCREW, 1/2"NC x 1-3/4"                                                          |
|                                                                | 70910244 | 1    | WASHER, plain, SAE std., 1/2"                                                      |
| 3                                                              | 70035018 | 2    | CAPSCREW, 1/2"NF x 1-1/2"                                                          |
|                                                                | 70904208 | 2    | LOCKWASHER, 1/2"                                                                   |
|                                                                | 70911043 | 2    | NUT, 1/2"NF                                                                        |
| 4                                                              | 70064531 | 4    | WASHER, plain (heavy)                                                              |
| 5                                                              | 70650892 | 1    | PRE-CLEANER                                                                        |
| 6                                                              | 70634446 | 1    | CARTRIDGE, air cleaner                                                             |
| 7                                                              | 70634442 | 1    | HOUSING ASSY., air cleaner (Includes items 8 thru 12)                              |
| 8                                                              | 70650302 | 1    | ADAPTER, restriction indicator (Includes filter)                                   |
| 9                                                              | 70196663 | 4    | T-BOLT, pre-cleaner                                                                |
| 10                                                             | 70650301 | 4    | SPRING, pre-cleaner bolt                                                           |
| 11                                                             | 70196662 | 4    | HOOK, pre-cleaner                                                                  |
| 12                                                             | 70655140 | 4    | NUT, pre-cleaner bolt                                                              |
|                                                                | 70904205 | 4    | LOCKWASHER 5/16"                                                                   |
| 13                                                             | 70659195 | 24   | WASHER, spring, pre-cleaner bolt                                                   |
| 14                                                             | 70630154 | 1    | BRACKET, supporting, air cleaner                                                   |
| 15                                                             | 70632673 | 1    | SHIELD, heat                                                                       |
|                                                                | 70911035 | 1    | NUT, jam, 1/2"NC                                                                   |
|                                                                | 70904208 | 1    | LOCKWASHER, 1/2"                                                                   |
| 16                                                             | 70064531 | 1    | WASHER, plain                                                                      |
| 17                                                             | 70081214 | 1    | HOSE, air cleaner to inlet elbow                                                   |
|                                                                | 70193822 | 2    | CLAMP, hose                                                                        |
| 18                                                             | 70097486 | 1    | ELBOW, air inlet                                                                   |
| 19                                                             | 70035061 | 4    | CAPSCREW, 1/2"NC x 1-1/4"                                                          |
|                                                                | 70904208 | 4    | LOCKWASHER, 1/2"                                                                   |
| 20                                                             | 74361551 | 1    | □ GASKET, air inlet elbow                                                          |
| 21                                                             | 70630157 | 1    | HOSE, aspirator                                                                    |
| 22                                                             | 70185502 | 2    | CLAMP ASSY., aspirator hose                                                        |
| 23                                                             | 70645075 | 1    | HOSE, restriction indicator (See HOSE PARTS)                                       |
|                                                                | 70919174 | 2    | CONNECTOR flare type, 1/4" tube, 1/8"NPT female                                    |
|                                                                | 70904273 | 1    | NIPPLE, pipe, 1/8"NPT x 1"                                                         |
| 24                                                             | 70631564 | 1    | INDICATOR, air restriction (Serviced only as a unit)(Tractor units prior to #9555) |
|                                                                | 74388648 | 1    | INDICATOR, air restriction (Serviced only as a unit)(Tractor #9555 and up)         |
| 25                                                             | 73045531 | 1    | FLANGE, mounting, air restriction indicator (Effective tractor unit #9555)         |
|                                                                | 70924956 | 2    | CAPSCREW, 1/4"NF x 3/4"                                                            |
|                                                                | 70904204 | 2    | LOCKWASHER, 1/4"                                                                   |
|                                                                | 70911040 | 2    | NUT, 1/4"NF                                                                        |
| 26                                                             | 70650886 | 1    | ADAPTER, air intake                                                                |
|                                                                | 70047478 | 6    | CAPSCREW, 1/4"NC x 5/8"                                                            |
|                                                                | 70904204 | 6    | LOCKWASHER, 1/4"                                                                   |
|                                                                | 70911114 | 6    | WASHER, plain, SAE std., 1/4"                                                      |
| 27                                                             | -----    | 1    | ASPIRATOR (See EXHAUST PIPE)                                                       |

(Revised January 1979)





AIR CLEANER ("Farr") (Turbocharged units)

T-76049

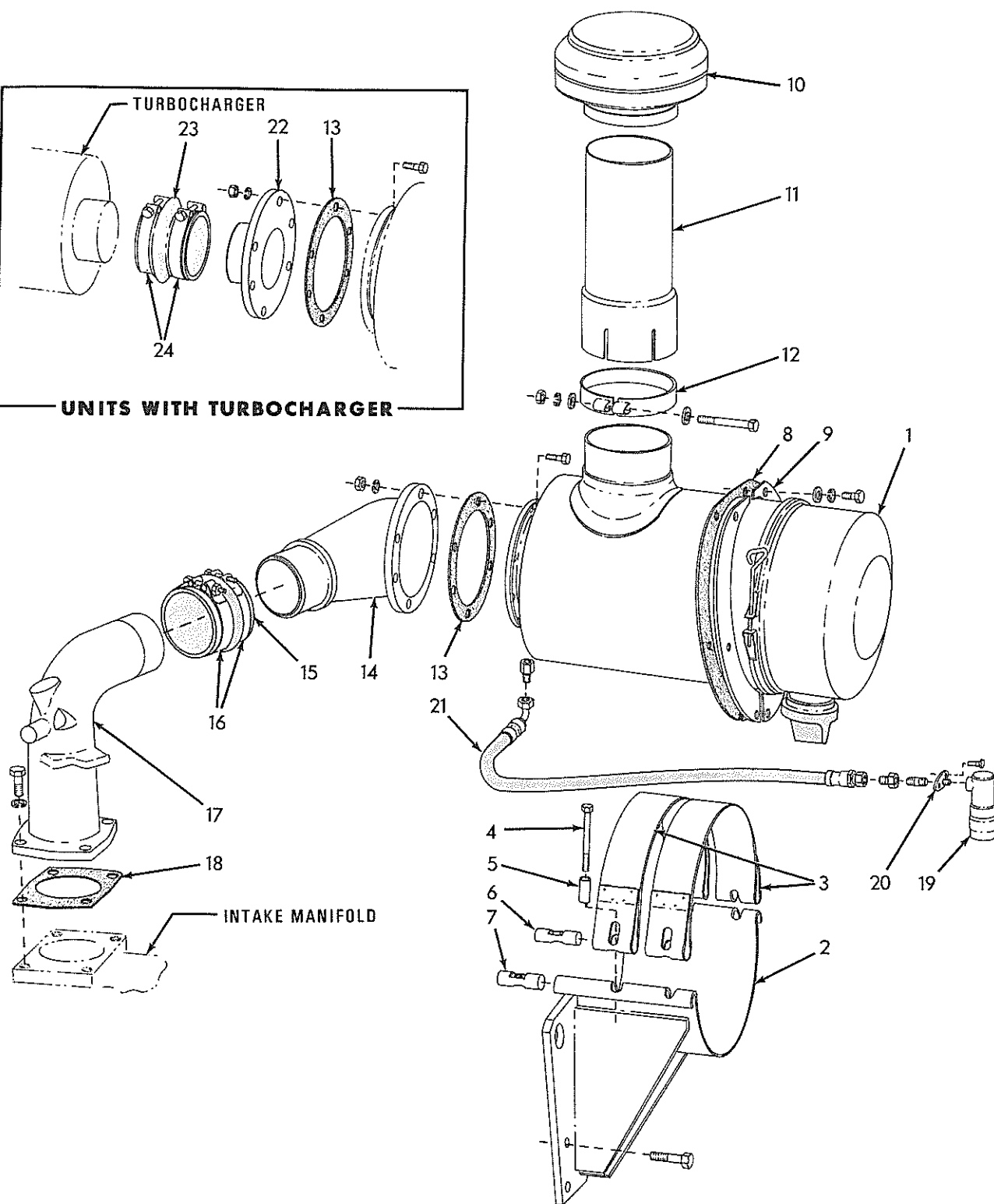
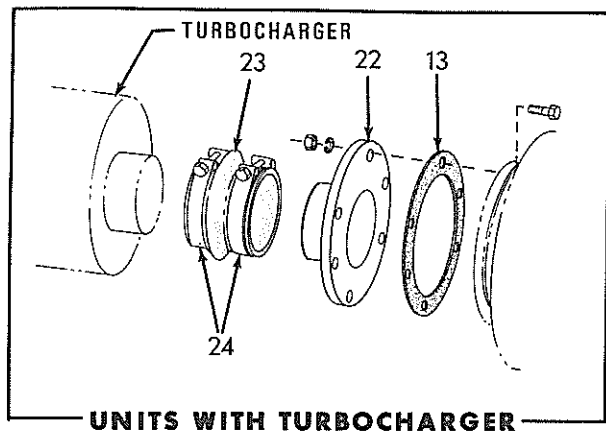
(Added June 1970)

# AIR CLEANER ("Farr")(Turbocharged units)

USAGE: Units with turbocharger. Tractors serial No. 5937 and up; also No. 64A09551 thru No. 64A09571.

| ITEM | PART NO. | QTY. | DESCRIPTION                                           |
|------|----------|------|-------------------------------------------------------|
| 1    | 70669794 | 1    | CLEANER ASSY., air (Includes items 2 thru 10)         |
|      | 70915987 | 3    | CAPSCREW, 1/2"NC x 1-1/2"                             |
|      | 70064531 | 3    | WASHER, plain                                         |
|      | 70904208 | 3    | LOCKWASHER, 1/2"                                      |
|      | 70911028 | 3    | NUT, 1/2"NC                                           |
| 2    | 70650892 | 1    | PRE-CLEANER                                           |
| 3    | 70634446 | 1    | CARTRIDGE, air cleaner                                |
| 4    | 70669793 | 1    | HOUSING ASSY., air cleaner (Includes items 9 thru 13) |
| 5    | 70650302 | 1    | ADAPTER, restriction indicator (Includes filter)      |
| 6    | 70196663 | 4    | T-BOLT, pre-cleaner                                   |
| 7    | 70650301 | 4    | SPRING, pre-cleaner bolt                              |
| 8    | 70196662 | 4    | HOOK, pre-cleaner                                     |
| 9    | 70655140 | 4    | NUT, pre-cleaner bolt                                 |
|      | 70904205 | 4    | LOCKWASHER, 5/16"                                     |
| 10   | 70659195 | 24   | WASHER, spring, pre-cleaner bolt                      |
| 11   | 70650886 | 1    | ADAPTER, air intake                                   |
|      | 70047478 | 6    | CAPSCREW, 1/4"NC x 5/8"                               |
|      | 70904204 | 6    | LOCKWASHER, 1/4"                                      |
|      | 70911114 | 6    | WASHER, plain, SAE std., 1/4"                         |
| 12   | 70645075 | 1    | HOSE, restriction indicator (See HOSE PARTS)          |
|      | 70919174 | 2    | CONNECTOR, flare type, 1/4" tube, 1/8"NPT female      |
|      | 70904273 | 1    | NIPPLE, pipe, 1/8"NPT x 1"                            |
| 13   | 73045531 | 1    | FLANGE, mounting, air restriction indicator           |
|      | 70924956 | 2    | CAPSCREW, 1/4"NF x 3/4"                               |
|      | 70904204 | 2    | LOCKWASHER, 1/4"                                      |
|      | 70911040 | 2    | NUT, 1/4"NF                                           |
| 14   | 74388648 | 1    | INDICATOR, air restriction (Serviced only as a unit)  |
| 15   | 70662302 | 1    | BRACKET, supporting, air cleaner                      |
| 16   | 70670466 | 1    | SHIELD, heat                                          |
|      | 70915408 | 2    | CAPSCREW, 3/8"NC x 3/4"                               |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                      |
|      | 70911115 | 2    | WASHER, plain, SAE std., 3/8"                         |
|      | 70911026 | 2    | NUT, 3/8"NC                                           |
| 17   | 70665542 | 1    | ANGLE                                                 |
|      | 70916271 | 1    | CAPSCREW, 3/8"NC x 1"                                 |
|      | 70900817 | 1    | WASHER, plain, U.S. std., 3/8"                        |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                      |
|      | 70911026 | 1    | NUT, 3/8"NC                                           |
|      | 70916313 | 2    | CAPSCREW, 1/2"NC x 1-1/2"                             |
|      | 74371107 | 2    | WASHER                                                |
| 18   | 70662301 | 1    | HOSE, air cleaner to inlet elbow                      |
|      | 70658781 | 2    | CLAMP                                                 |
| 19   | 70662300 | 1    | HOSE, aspirator                                       |
| 20   | 70185502 | 3    | CLAMP ASSY.                                           |
| 21   | 70185370 | 1    | ELBOW, aspirator                                      |
| 22   | -----    | 1    | ASPIRATOR (See EXHAUST PIPE)                          |

(Added June 1970)



AIR CLEANER MOUNTING ("Donaldson")

T-76050

AIR CLEANER MOUNTING  
("Donaldson" Dry-type)

USAGE: Tractors serial No. 64A09572 and up.

\* Units with turbocharger  
\*\* Units without turbocharger

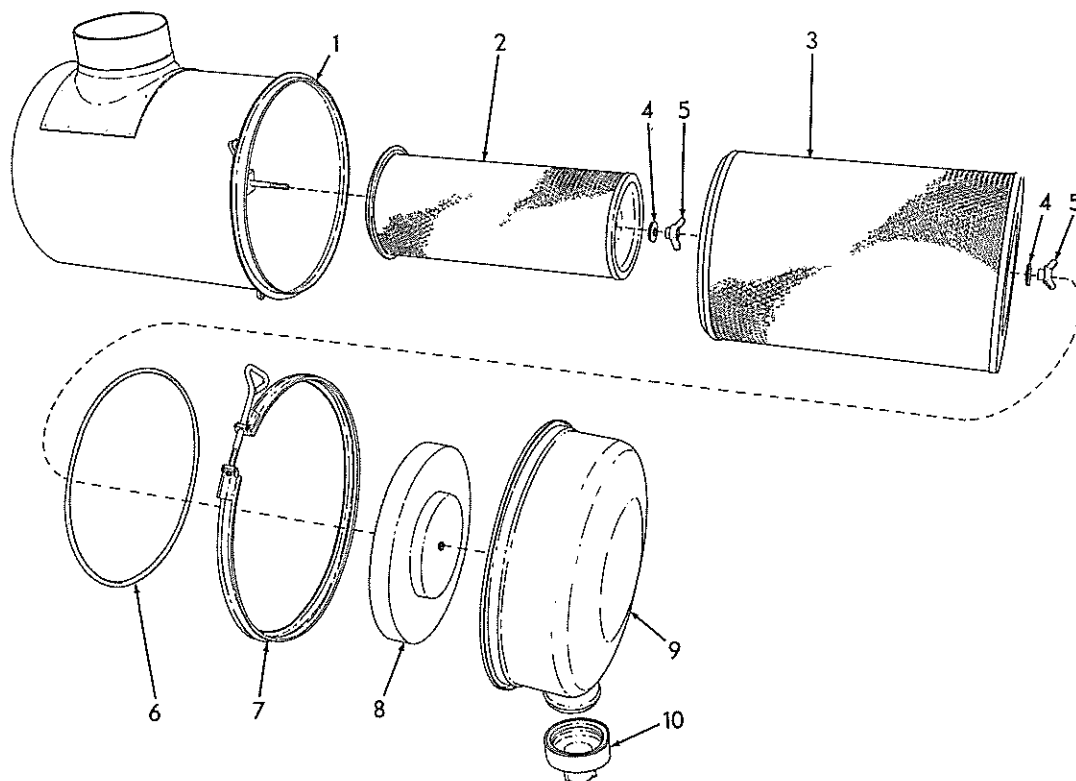
| ITEM | PART NO. | QTY. |    | DESCRIPTION                                          |
|------|----------|------|----|------------------------------------------------------|
|      |          | *    | ** |                                                      |
| 1    | -----    | 1    | 1  | CLEANER ASSY., air (See page 83F)                    |
| 2    | 70668123 | 1    | 1  | BRACKET, mounting                                    |
|      | 70916311 | 3    | 3  | CAPSCREW, 1/2"NC x 1-1/4"                            |
| 3    | 70082206 | 2    | 2  | BAND, mounting                                       |
| 4    | 70040570 | 4    | 4  | CAPSCREW, mounting band                              |
| 5    | 70053667 | 4    | 4  | SPACER, mounting band capscREW                       |
| 6    | 70056099 | 4    | 4  | PIN, mounting band, upper                            |
| 7    | 70056100 | 4    | 4  | PIN, mounting band, lower                            |
| 8    | 70663098 | 1    | 1  | GASKET, cleaner sealing                              |
| 9    | 70663099 | 2    | 2  | PLATE, sealing gasket                                |
|      | 70921254 | 6    | 6  | CAPSCREW, Nylok, 1/4"NC x 7/8"                       |
|      | 70900816 | 6    | 6  | WASHER, plain, U.S. std., 1/4"                       |
| 10   | 70645028 | 1    | 1  | CAP, weather (Includes mounting clamp)               |
| 11   | 70645029 | 1    | 1  | TUBE, air inlet                                      |
| 12   | 70629755 | 1    | 1  | CLAMP, inlet tube                                    |
|      | 70919227 | 1    | 1  | CAPSCREW, 3/8"NC x 3-1/4"                            |
|      | 70044973 | 2    | 2  | WASHER, plain                                        |
|      | 70904206 | 1    | 1  | LOCKWASHER, 3/8"                                     |
|      | 70911026 | 1    | 1  | NUT, 3/8"NC                                          |
| 13   | 70658759 | 1    | 1  | GASKET, air intake elbow                             |
| 14   | 70670348 | -    | 1  | ELBOW, air cleaner                                   |
|      | 70919224 | -    | 6  | CAPSCREW, 3/8"NC x 1-1/8"                            |
|      | 70904206 | -    | 6  | LOCKWASHER, 3/8"                                     |
|      | 70911026 | -    | 6  | NUT, 3/8"NC                                          |
| 15   | 70670353 | -    | 1  | HOSE, air inlet                                      |
| 16   | 74255349 | -    | 2  | CLAMP, air inlet hose                                |
| 17   | 70097486 | -    | 1  | ELBOW, inlet manifold                                |
|      | 70035061 | -    | 4  | CAPSCREW, 1/2"NC x 1-1/4"                            |
|      | 70904208 | -    | 4  | LOCKWASHER, 1/2"                                     |
| 18   | 74361551 | -    | 1  | GASKET, inlet manifold elbow                         |
| 19   | 74388648 | 1    | 1  | INDICATOR, air restriction (Serviced only as a unit) |
| 20   | 73045531 | 1    | 1  | FLANGE, mounting, air restrictor indicator           |
|      | 70924956 | 2    | 2  | CAPSCREW, plated, 1/4"NF x 3/4"                      |
|      | 70904204 | 2    | 2  | LOCKWASHER, 1/4"                                     |
|      | 70911040 | 2    | 2  | NUT, 1/4"NF                                          |

(Continued)

(Added June 1970)

# AIR CLEANER MOUNTING (Continued)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                      |
|------|----------|------|----|--------------------------------------------------|
|      |          | *    | ** |                                                  |
| 21   | 70658686 | 1    | 1  | HOSE, restriction indicator (See HOSE PARTS)     |
|      | 70919174 | 2    | 2  | CONNECTOR, flare type, 1/4" tube, 1/8"NPT female |
|      | 70904273 | 1    | 1  | NIPPLE, pipe, 1/8"NPT x 1"                       |
| 22   | 70663089 | 1    | -  | FLANGE, air cleaner                              |
|      | 70919224 | 6    | -  | CAPSCREW, 3/8"NC x 1-1/8"                        |
|      | 70904206 | 6    | -  | LOCKWASHER, 3/8"                                 |
|      | 70911026 | 6    | -  | NUT, 3/8"NC                                      |
| 23   | 70659034 | 1    | -  | HOSE, air inlet                                  |
| 24   | 70658781 | 2    | -  | CLAMP, air inlet hose                            |

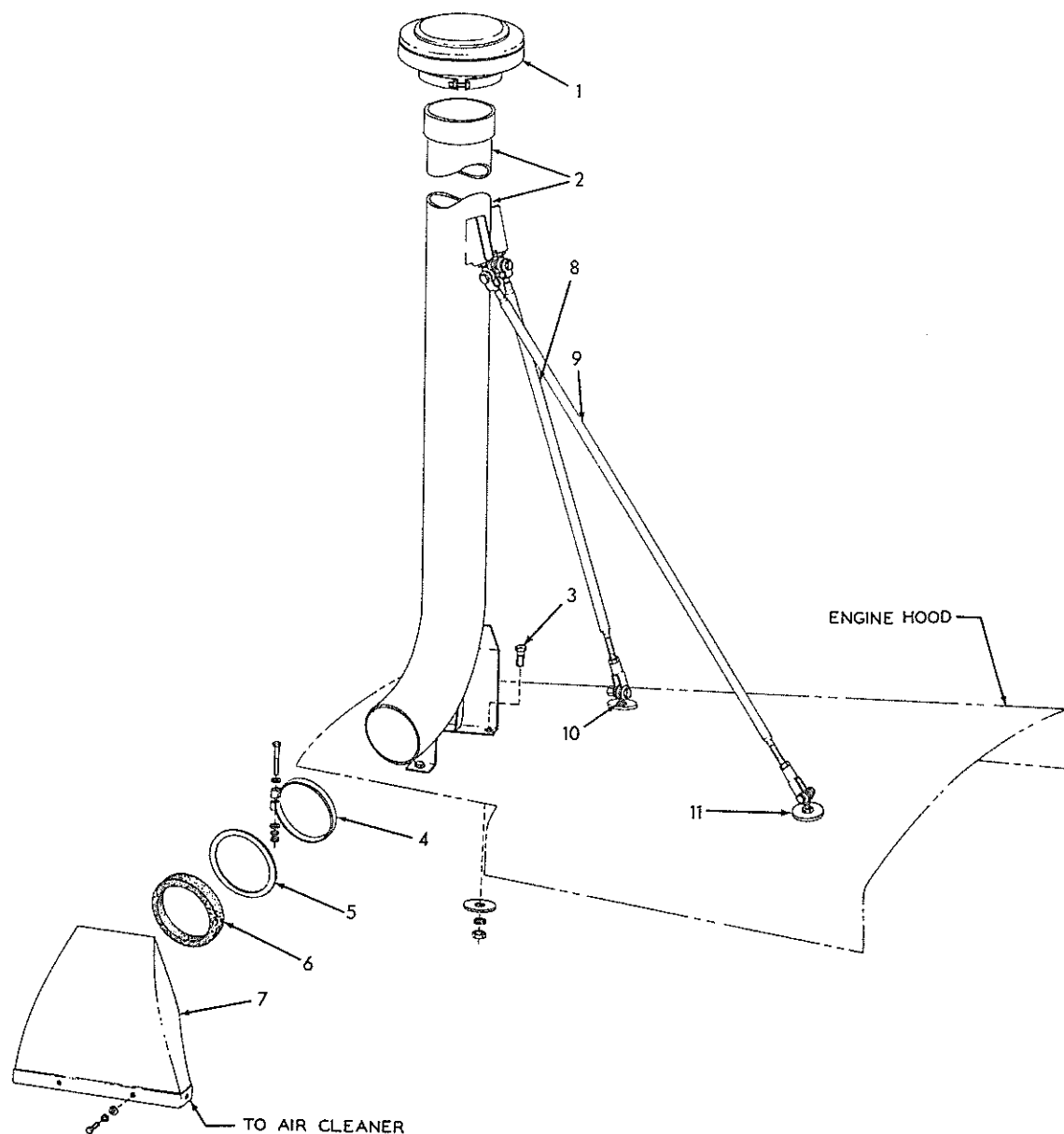


AIR CLEANER

T-73590

USAGE: Tractors serial No. 64A09572 and up. See page 83D

| ITEM | PART NO. | QTY. | DESCRIPTION                                    |
|------|----------|------|------------------------------------------------|
| -    | 70662618 | 1    | CLEANER ASSY., air (Includes items 1 thru 10)  |
| 1    | -----    | 1    | BODY (Not serviced separately)                 |
| 2    | 70662477 | 1    | ELEMENT ASSY., safety (inner)                  |
| 3    | 70659533 | 1    | ELEMENT ASSY., filtering (outer)               |
| 4    | -----    | 2    | GASKET, element retaining nut                  |
| 5    | 70239517 | 2    | NUT ASSY., element retaining (Includes item 4) |
| 6    | 70620721 | 1    | O-RING, cup sealing                            |
| 7    | 70621530 | 1    | CLAMP ASSY. (Includes tightening screw)        |
| 8    | 70661162 | 1    | BAFFLE ASSY. (Includes wing nut)               |
| 9    | 70661163 | 1    | CUP, sediment                                  |
| 10   | 73042943 | 1    | VALVE, unloading                               |



### AIR INTAKE EXTENSION

T-73609

USAGE: Special equipment. For units with dry-type AIR CLEANER 70650911.

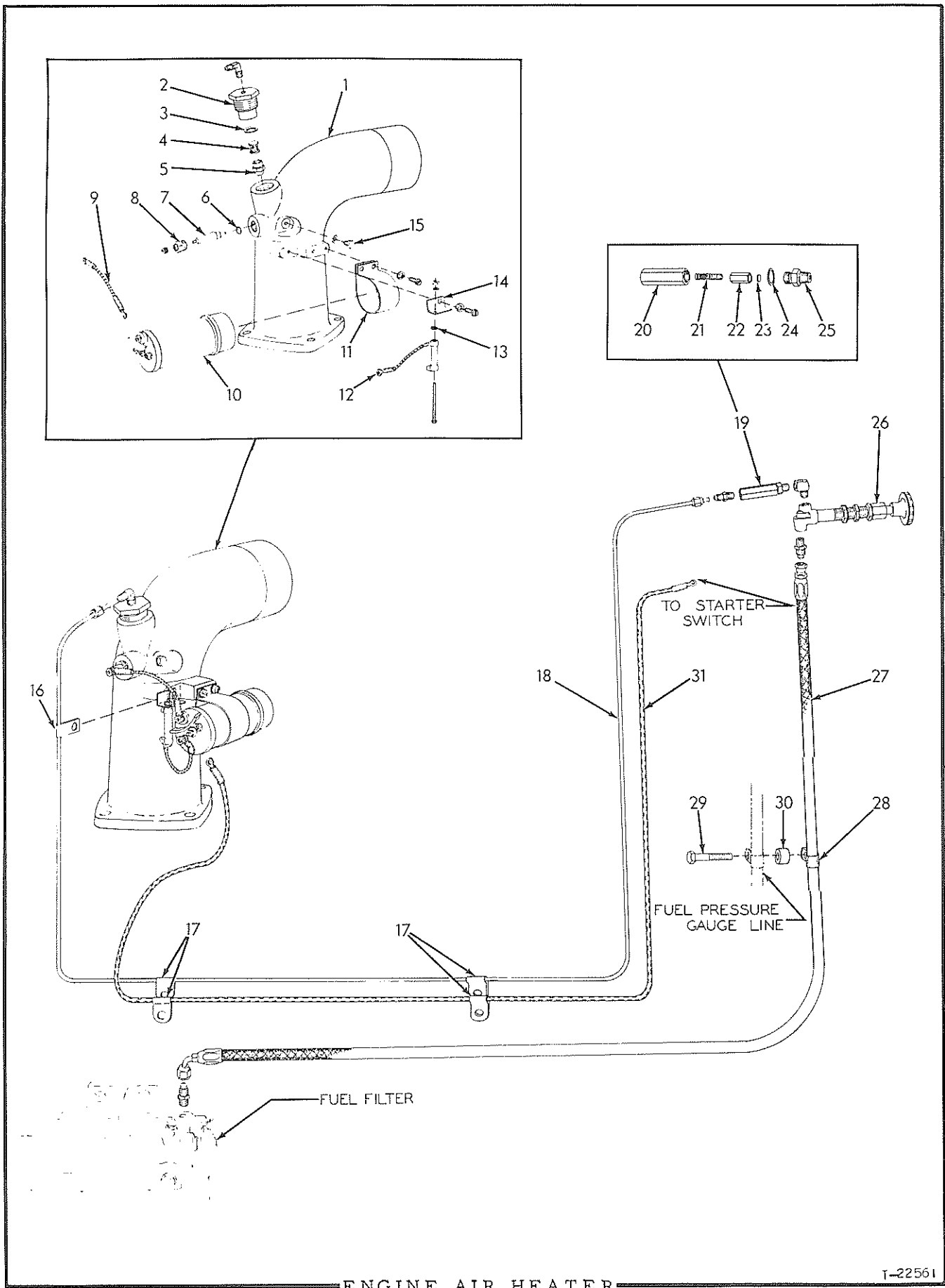
| ITEM | PART NO. | QTY. | DESCRIPTION                    |
|------|----------|------|--------------------------------|
| 1    | 70645028 | 1    | RAINCAP (Includes clamp)       |
| 2    | 70655258 | 1    | TUBE, extension                |
| 3    | 70035061 | 3    | CAPSCREW, 1/2"NC x 1-1/4"      |
|      | 70085453 | 3    | WASHER, plain                  |
|      | 70904208 | 3    | LOCKWASHER, 1/2"               |
|      | 70911028 | 3    | NUT, 1/2"NC                    |
| 4    | 70655064 | 1    | CLAMP, gasket                  |
|      | 70920613 | 1    | CAPSCREW, 3/8"NF x 3"          |
|      | 70900817 | 2    | WASHER, plain, U.S. std., 3/8" |
|      | 70904206 | 1    | LOCKWASHER, 3/8"               |
|      | 70911041 | 1    | NUT, 3/8"NF                    |

(Continued)

# AIR INTAKE EXTENSION (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                          |
|------|----------|------|------------------------------------------------------|
| 5    | 70655044 | 1    | WASHER, extension pipe gasket                        |
| 6    | 70655045 | 1    | GASKET, extension pipe                               |
| 7    | 70655139 | 1    | ADAPTER, air intake (Replaces std. ADAPTER 70650886) |
|      | 70047478 | 6    | CAPSCREW, 1/4"NC x 5/8"                              |
|      | 70904204 | 6    | LOCKWASHER, 1/4"                                     |
|      | 70911114 | 6    | WASHER, plain, SAE std., 1/4"                        |
| 8    | 70655253 | 1    | ROD, bracing, right side                             |
|      | 70911043 | 1    | NUT, 1/2"NF                                          |
|      | 70917666 | 1    | YOKE, rod end, adjustable, 1/2"NF                    |
|      | 70912192 | 2    | CAPSCREW, 1/2"NF x 1-3/4"                            |
|      | 70038234 | 2    | NUT, high, 1/2"NF                                    |
| 9    | 70655096 | 1    | ROD, bracing, left side                              |
|      | 70911043 | 1    | NUT, 1/2"NF                                          |
|      | 70917666 | 1    | YOKE, rod end, adjustable, 1/2"NF                    |
|      | 70912192 | 2    | CAPSCREW, 1/2"NF x 1-3/4"                            |
|      | 70038234 | 2    | NUT, high, 1/2"NF                                    |
| 10   | 70067902 | 4    | BOLT, eye                                            |
|      | 70911043 | 8    | NUT, 1/2"NF                                          |
| 11   | 70085453 | 4    | WASHER, hood reinforcing                             |





# ENGINE AIR HEATER

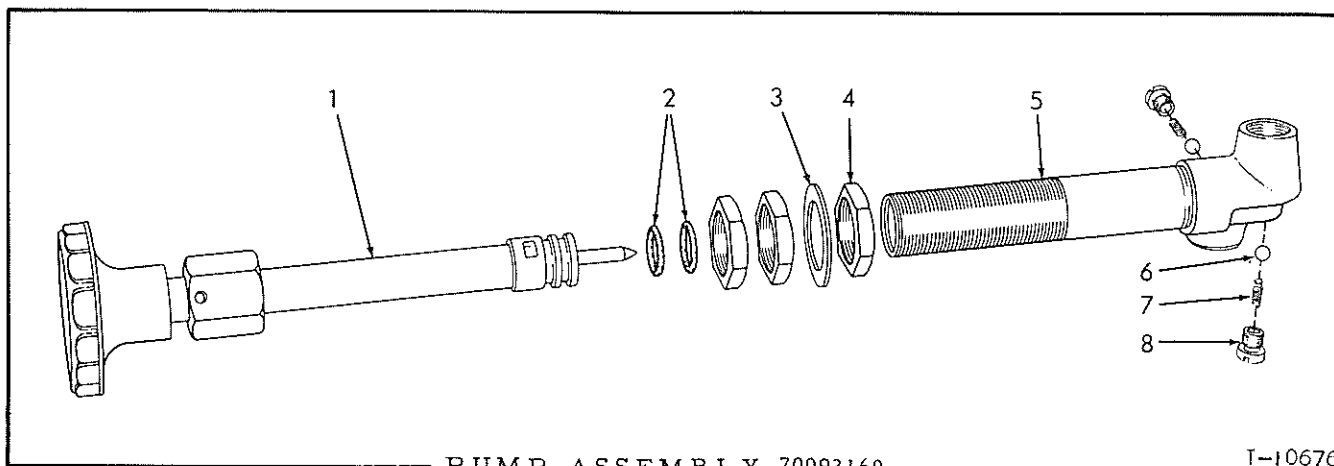
USAGE: Special equipment. For all units except those equipped with Engine Primer.

| ITEM | PART NO. | QTY. | DESCRIPTION                                                      |
|------|----------|------|------------------------------------------------------------------|
| 1    | 70097512 | 1    | ELBOW, air intake (Replaces standard ELBOW 70097486)             |
| 2    | 70088038 | 1    | BUSHING, spray nozzle                                            |
| 3    | 70630787 | 1    | WASHER, spray nozzle                                             |
| 4    | 70631225 | 1    | STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen)            |
| 5    | 70631224 | 1    | NOZZLE ASSEMBLY, spray (Includes item 4)                         |
| 6    | 70631566 | 1    | GASKET, insulator                                                |
| 7    | 70631226 | 1    | INSULATOR PACKAGE (Includes terminal nut and item 6)             |
| 8    | 70630828 | 1    | NUT, insulator retaining                                         |
| 9    | 70051006 | 1    | CABLE, coil to insulator                                         |
| 10   | 70097026 | 1    | COIL, ignition (Serviced only as a unit)                         |
| 11   | 70631199 | 1    | BRACKET, ignition coil mounting                                  |
|      | 70912226 | 2    | SCREW, machine, fil-hd., 1/4"NC x 5/8"                           |
|      | 70904204 | 2    | LOCKWASHER, 1/4"                                                 |
| 12   | 70630830 | 1    | RESISTOR                                                         |
|      | 70915922 | 1    | SCREW, machine #8-32 x 2-1/4"                                    |
|      | 70915923 | 1    | LOCKWASHER, external teeth, #8                                   |
|      | 70907154 | 1    | NUT, #8-32                                                       |
| 13   | 70631198 | 1    | WASHER, insulating                                               |
| 14   | 70644133 | 1    | BRACKET, resistor mounting                                       |
|      | 70912226 | 1    | SCREW, machine, fil-hd., 1/4"NC x 5/8"                           |
|      | 70904204 | 1    | LOCKWASHER, 1/4"                                                 |
| 15   | 70630827 | 1    | SCREW ASSEMBLY, electrode (1 screw and 1 electrode)              |
|      | 70904204 | 1    | LOCKWASHER, 1/4"                                                 |
| 16   | 70200479 | 1    | CLIP, tube supporting (3/16" diam., 13/32" bolt-hole)            |
| 17   | 70223502 | 4    | CLIP, supporting, tube and cable (3/16" diam., 17/32" bolt-hole) |
| 18   | 70094665 | 1    | TUBE ASSEMBLY, pump to nozzle (Includes nuts)                    |
|      | 70919204 | 1    | ELBOW, flare type, 3/16" tube, 1/8"NPT male                      |
|      | 70919244 | 1    | CONNECTOR, flare type, 3/16" tube, 1/8"NPT male                  |
| 19   | 70094642 | 1    | VALVE ASSEMBLY, check (Consists of items 20 thru 25)             |
| 20   | 70094890 | 1    | BODY, check valve                                                |
| 21   | 70048603 | 1    | SPRING, check valve                                              |
| 22   | 70048608 | 1    | PLUNGER, check valve                                             |
| 23   | 70048606 | 1    | DISC, check valve                                                |
| 24   | 70630713 | 1    | WASHER, check valve                                              |

(Continued)

## ENGINE AIR HEATER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                    |
|------|----------|------|------------------------------------------------|
| 25   | 70092793 | 1    | CONNECTOR, check valve                         |
| 26   | 70092160 | 1    | PUMP ASSEMBLY (See page 89 for parts)          |
|      | 70915399 | 1    | ELBOW, street, 90°, brass, 1/8"NPT             |
| 27   | 70643723 | 1    | HOSE, fuel filter to pump (See HOSE PARTS)     |
|      | 70919171 | 2    | CONNECTOR, flare type, 1/4" tube, 1/8"NPT male |
| 28   | 70644006 | 1    | CLIP, hose supporting                          |
| 29   | 70046419 | 1    | CAPSCREW, 3/8"NF x 2"                          |
| 30   | 70619331 | 1    | BLOCK, spacing, hose clip                      |
| 31   | 70067177 | 1    | CABLE, switch to coil                          |

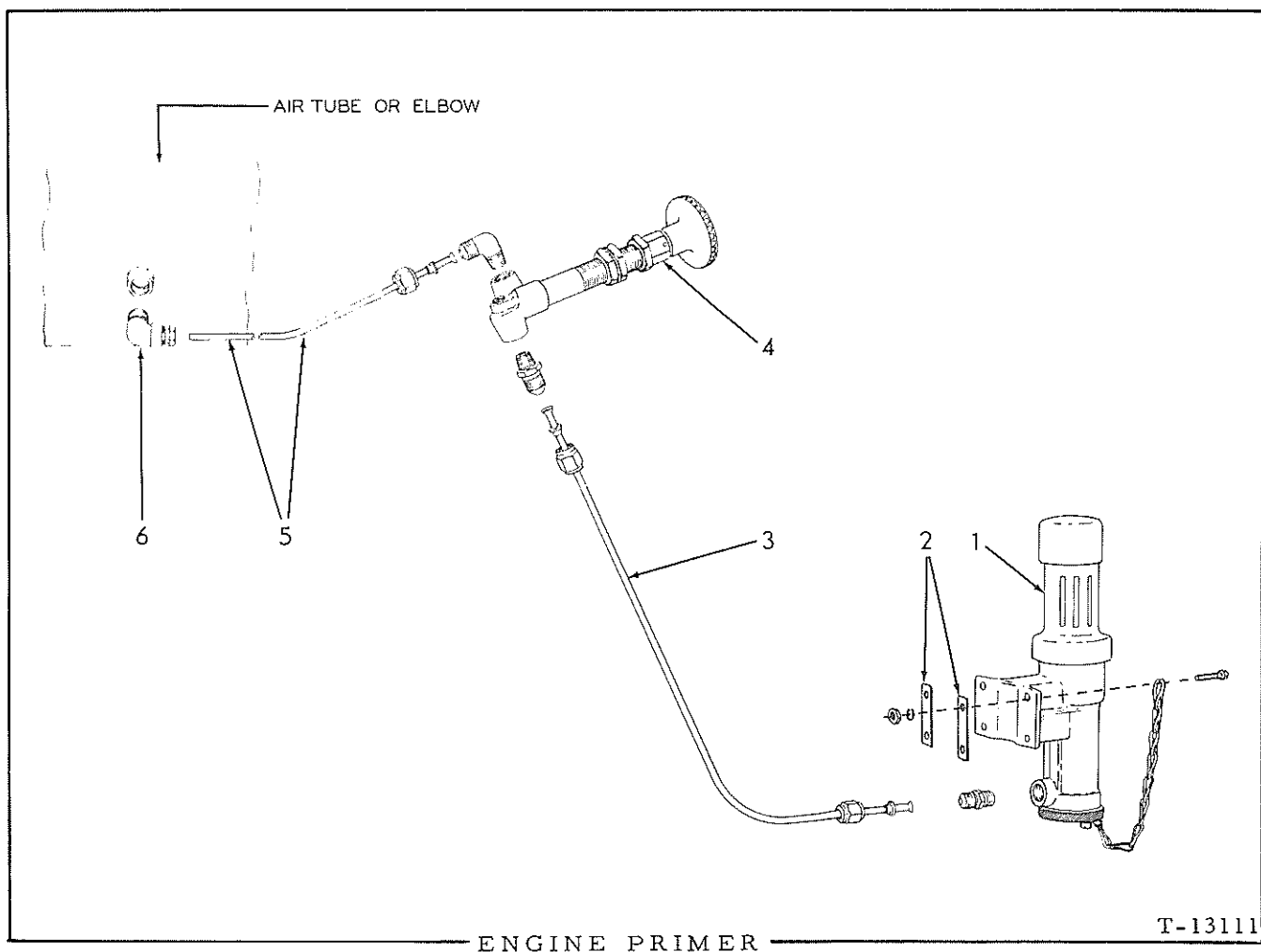


PUMP ASSEMBLY 70092160

T-10676

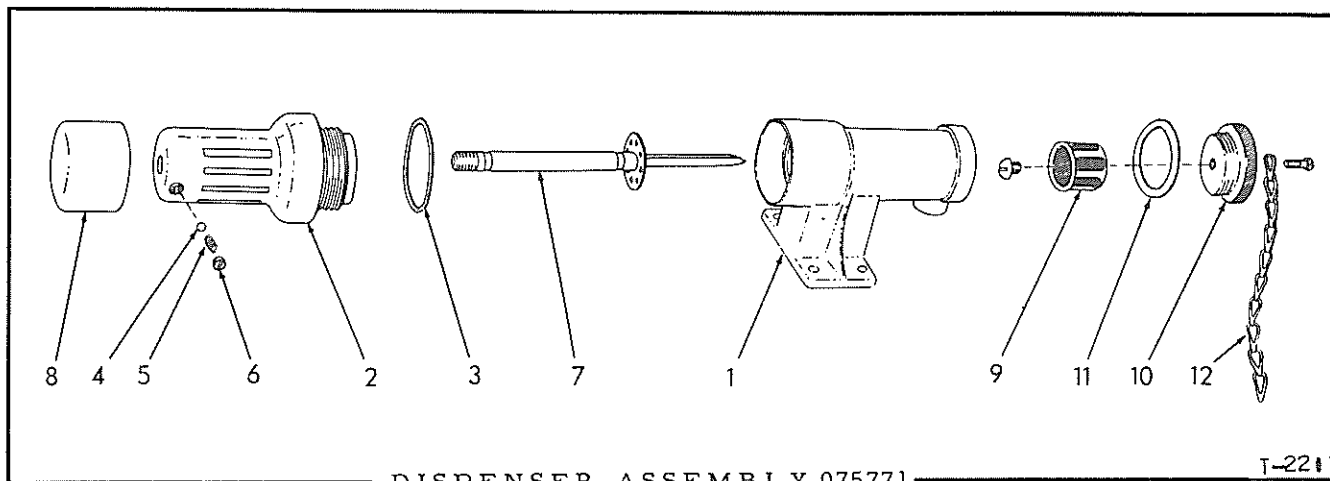
USAGE: See pages 87 and 90

| ITEM | PART NO. | QTY. | DESCRIPTION                               |
|------|----------|------|-------------------------------------------|
| 1    | -----    | 1    | PISTON ASSEMBLY (Not serviced separately) |
| 2    | 70923560 | 2    | O-RING, plunger                           |
| 3    | 70066873 | 1    | WASHER, mounting                          |
| 4    | 70066872 | 3    | NUT, mounting                             |
| 5    | -----    | 1    | BARREL ASSEMBLY (Not serviced separately) |
| 6    | 70066876 | 2    | BALL, check valve (5/32" diam.)           |
| 7    | 70066875 | 2    | SPRING, check valve                       |
| 8    | 70066874 | 2    | RETAINER, check valve                     |



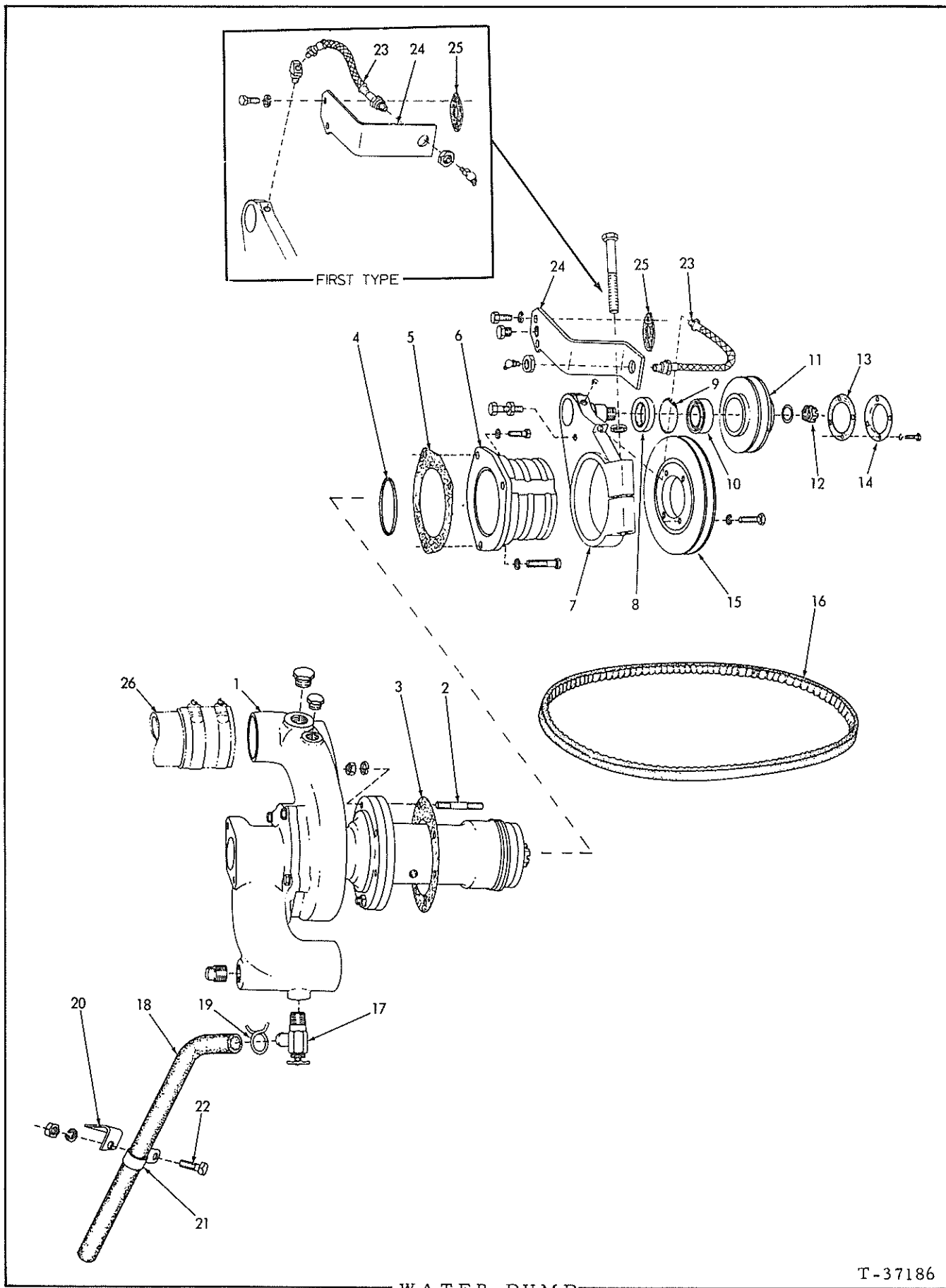
USAGE: Special equipment. For all units except those equipped with Air Heater

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                              |
|------|----------|------|------------------------------------------------------------------------------------------|
| 1    | 70075771 | 1    | DISPENSER ASSEMBLY, priming fuel (See page 91 for parts)                                 |
|      | 70913706 | 4    | CAPSCREW, #10-24NC x 1"                                                                  |
|      | 70904203 | 4    | LOCKWASHER, #10                                                                          |
|      | 70901310 | 4    | NUT, #10-24NC                                                                            |
| 2    | 70066261 | 6    | GASKET, dispenser mounting                                                               |
| 3    | -----    | 1    | TUBE, dispenser to pump (Order item 7)                                                   |
|      | 70915488 | 2    | NUT, Sealastic, 1/8" tube                                                                |
|      | 70915486 | 2    | RING, Sealastic, 1/8" tube (Includes ferrule)                                            |
|      | 70915556 | 2    | CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male                                            |
| 4    | 70092160 | 1    | PUMP ASSEMBLY (See page 89 for parts)                                                    |
| 5    | -----    | 1    | TUBE, pump discharge (Order item 7)                                                      |
|      | 70915488 | 1    | NUT, Sealastic, 1/8" tube                                                                |
|      | 70915486 | 1    | RING, Sealastic, 1/8" tube (Includes ferrule)                                            |
|      | 70915557 | 1    | ELBOW, Sealastic, 1/8" tube, 1/8"NPT male                                                |
| 6    | 70066517 | 1    | ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve.<br>Serviced only as a unit) |
| 7    | 70066253 | -    | TUBING, copper, 1/8"O.D., 10ft. roll (Use as req'd)(Not Illustrated)                     |



USAGE: See page 90

| ITEM | PART NO. | QTY. | DESCRIPTION                              |
|------|----------|------|------------------------------------------|
| 1    | 70068878 | 1    | BODY, fuel dispenser                     |
| 2    | 70068879 | 1    | CHAMBER, fuel dispenser                  |
| 3    | 70069164 | 1    | GASKET, fuel dispenser chamber           |
| 4    | 70905357 | 1    | BALL, steel, 3/16" diam.                 |
| 5    | 70066251 | 1    | SPRING, plunger locking ball             |
| 6    | 70066252 | 1    | PLUG, retaining, locking ball spring     |
| 7    | 70066255 | 1    | PLUNGER, fuel dispenser                  |
| 8    | 70068881 | 1    | KNOB, fuel dispenser plunger             |
| 9    | 70068875 | 1    | STRAINER, fuel dispenser                 |
|      | 70915432 | 1    | SCREW, machine, 1/4"NC x 5/16"           |
| 10   | 70075770 | 1    | PLUG, fuel dispenser strainer            |
| 11   | 70068876 | 1    | GASKET, fuel dispenser strainer plug     |
| 12   | 70075769 | 1    | CHAIN, strainer plug retaining           |
|      | 70901781 | 1    | SCREW, machine, fil-hd., #10-32NF x 1/2" |



WATER PUMP

T-37186

4396371 4396166  
 6371

# WATER PUMP

USAGE: Engines prior to serial no. 16-09529

14 3933 23 \* Engines prior to serial No. 16-07405 (11/16" belt)  
 \*\* Engines serial No. 16-07405 and up (1/2" belt)

| ITEM | PART NO. | QTY. | * ** | DESCRIPTION                                                             |
|------|----------|------|------|-------------------------------------------------------------------------|
| 1    | 74387607 | 1    | 1    | PUMP ASSEMBLY (See page 95 for parts)                                   |
|      | 70918887 | 1    | 1    | PLUG, pipe, hex-socket, 3/8"NPT                                         |
|      | 70920333 | 1    | 1    | PLUG, pipe, hex-hd., 3/8"NPT                                            |
|      | 70921073 | 1    | 1    | PLUG, pipe, hex-hd., 1"NPT (Used prior to engine #16-07836)             |
| 2    | 74513810 | 5    | 5    | STUD, attaching                                                         |
|      | 70904206 | 5    | 5    | LOCKWASHER, 3/8"                                                        |
|      | 70910123 | 5    | 5    | NUT, 3/8"NF                                                             |
| 3    | 74376398 | 1    | 1    | <input type="checkbox"/> GASKET, pump mounting                          |
| 4    | 70923035 | 1    | 1    | <input type="checkbox"/> O-RING, pump body                              |
| 5    | 74361740 | 1    | 1    | <input type="checkbox"/> GASKET, idler support                          |
| 6    | 74386855 | 1    | 1    | SUPPORT, belt tightening idler                                          |
|      | 70919224 | 1    | 1    | CAPSCREW, 3/8"NC x 1-1/8"                                               |
|      | 70912069 | 2    | 2    | CAPSCREW, 3/8"NC x 2-1/2"                                               |
|      | 70904206 | 3    | 3    | LOCKWASHER, 3/8"                                                        |
| 7    | 74388518 | 1    | -    | BRACKET, idler pulley                                                   |
|      | 70915275 | 1    | -    | FITTING, lubricating, 65°, 1/8"NPT (Engines prior to #16-05014)         |
|      | 74388339 | -    | 1    | <input type="checkbox"/> BRACKET, idler pulley                          |
|      | 70919134 | -    | 1    | <input type="checkbox"/> PLUG, pipe, hex-hd., 1/8"NPT                   |
|      | 70916320 | 1    | 1    | CAPSCREW, 1/2"NC x 4" (clamp)                                           |
|      | 70904208 | 1    | 1    | LOCKWASHER, 1/2"                                                        |
|      | 70916314 | 1    | 1    | CAPSCREW, 1/2"NC x 2" (adjustment)                                      |
|      | 70910510 | 1    | 1    | NUT, jam, 1/2"NC                                                        |
| 8    | 74254670 | 1    | 1    | SEAL, oil, idler pulley                                                 |
| 9    | 74254100 | 1    | 1    | RING, snap, idler pulley                                                |
| 10   | 74255031 | 1    | 1    | BEARING, ball, idler pulley                                             |
| 11   | 74387294 | 1    | -    | PULLEY, idler                                                           |
|      | 74388253 | -    | 1    | <input type="checkbox"/> PULLEY, idler                                  |
| 12   | 70917626 | 1    | 1    | NUT, self-locking, 3/4"NF                                               |
|      | 70910819 | 1    | 1    | WASHER, plain                                                           |
| 13   | 74347752 | 1    | 1    | GASKET, idler pulley cover                                              |
| 14   | 74347751 | 1    | 1    | COVER, idler pulley                                                     |
|      | 70915343 | 4    | 4    | CAPSCREW, 1/4"NC x 5/8"                                                 |
|      | 70904204 | 4    | 4    | LOCKWASHER, 1/4"                                                        |
| 15   | 74386824 | 1    | -    | PULLEY                                                                  |
|      | 70916225 | 4    | -    | CAPSCREW, 3/8"NF x 1"                                                   |
|      | 70904206 | 4    | -    | LOCKWASHER, 3/8"                                                        |
|      | 74388240 | -    | 1    | <input type="checkbox"/> PULLEY                                         |
|      | 74751643 | -    | 4    | <input type="checkbox"/> BOLT (self-locking, 3/8"NF x 1")(Early units)  |
|      | 74252002 | -    | 4    | <input type="checkbox"/> BOLT (self-locking, 3/8"NF x 1/2")(Late units) |
| 16   | 74388434 | 1    | -    | BELT, pump driving                                                      |
|      | 74391351 | -    | 1    | <input type="checkbox"/> BELT, pump driving                             |
| 17   | 70089894 | 1    | 1    | COCK, water drain                                                       |
| 18   | 70643744 | 1    | 1    | HOSE, water drain                                                       |
| 19   | 70089107 | 1    | 1    | CLAMP, hose, spring type, 15/16" diam.                                  |
| 20   | 70096208 | 1    | 1    | ANGLE, supporting, water drain hose                                     |
| 21   | 70069657 | 1    | 1    | CLIP, drain hose                                                        |

(Continued)

(Revised January 1979)

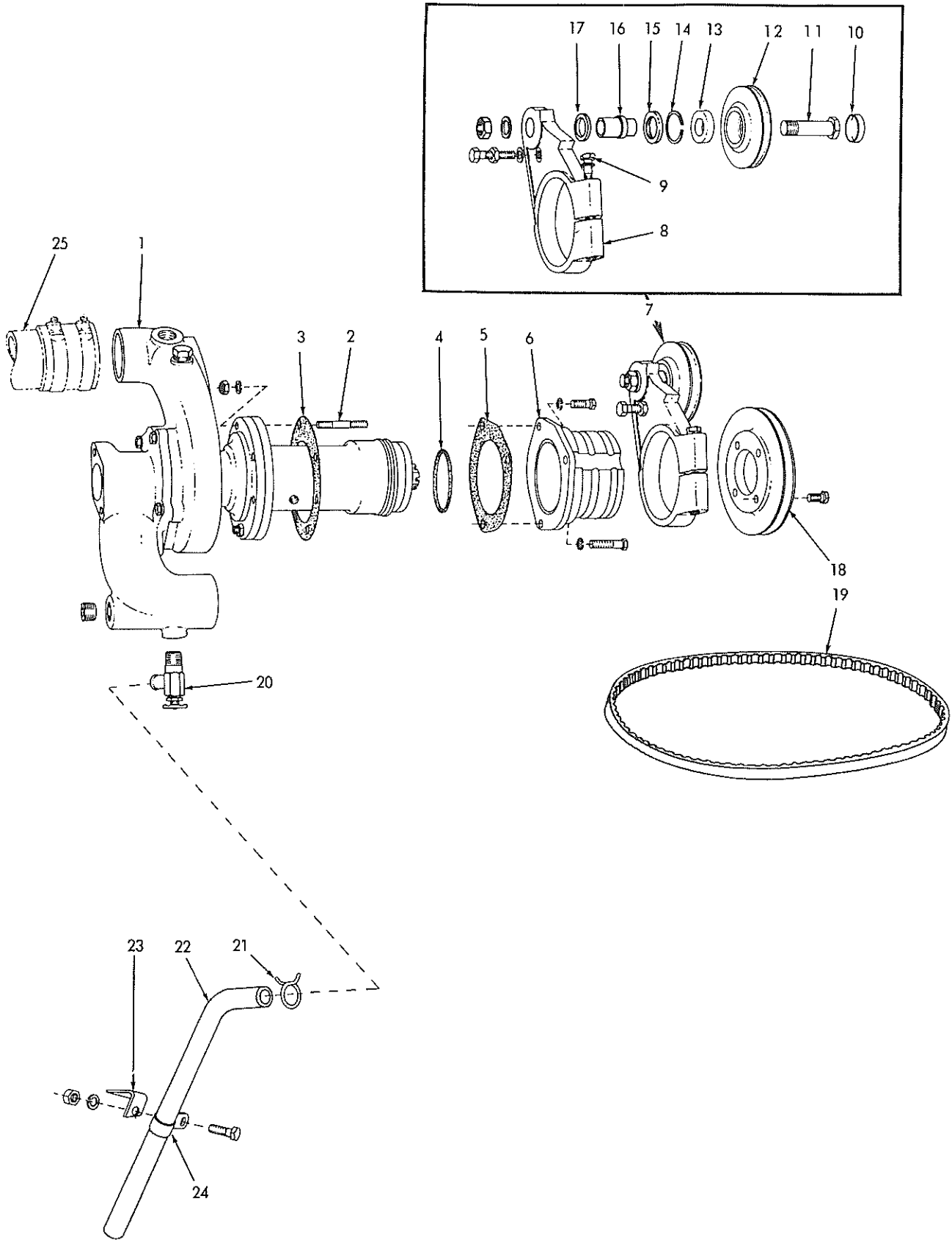


# WATER PUMP (Continued)

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                                                 |
|------|----------|------|----|---------------------------------------------------------------------------------------------|
|      |          | *    | ** |                                                                                             |
| 22   | 70035167 | 1    | 1  | CAPSCREW, 3/8"NF x 7/8"                                                                     |
|      | 70904206 | 1    | 1  | LOCKWASHER, 3/8"                                                                            |
|      | 70911041 | 1    | 1  | NUT, 3/8"NF                                                                                 |
| 23   | 70605782 | 1    | 1  | HOSE, lubricating (Effective with engine #16-05014)                                         |
|      | 70922194 | 1    | 1  | ELBOW, adapting, 60°, 1/8"NPT male and female (Used prior to engine #16-07405)              |
|      | 70915275 | 1    | 1  | FITTING, lubricating, 65°, 1/8"NPT                                                          |
|      | 70903574 | 1    | 1  | NUT, jam 5/8"NC                                                                             |
| 24   | 74387993 | 1    | -  | BRACKET, lubricating hose (Engines #16-05014 and up)                                        |
|      | 74390887 | -    | 1  | <input type="checkbox"/> BRACKET, lubricating hose                                          |
|      | 70920333 | -    | 1  | PLUG, pipe, hex-hd., 3/8"NPT                                                                |
|      | 70915408 | 2    | 2  | CAPSCREW, 3/8"NC x 3/4"                                                                     |
|      | 70904206 | 2    | 2  | LOCKWASHER, 3/8"                                                                            |
| 25   | 74371027 | 1    | 1  | <input type="checkbox"/> GASKET, lubricating hose bracket (Effective with engine #16-05014) |
| 26   | -----    | 1    | 1  | HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)                                          |

(Revised January 1979)





WATER PUMP (Second type)

T-75050

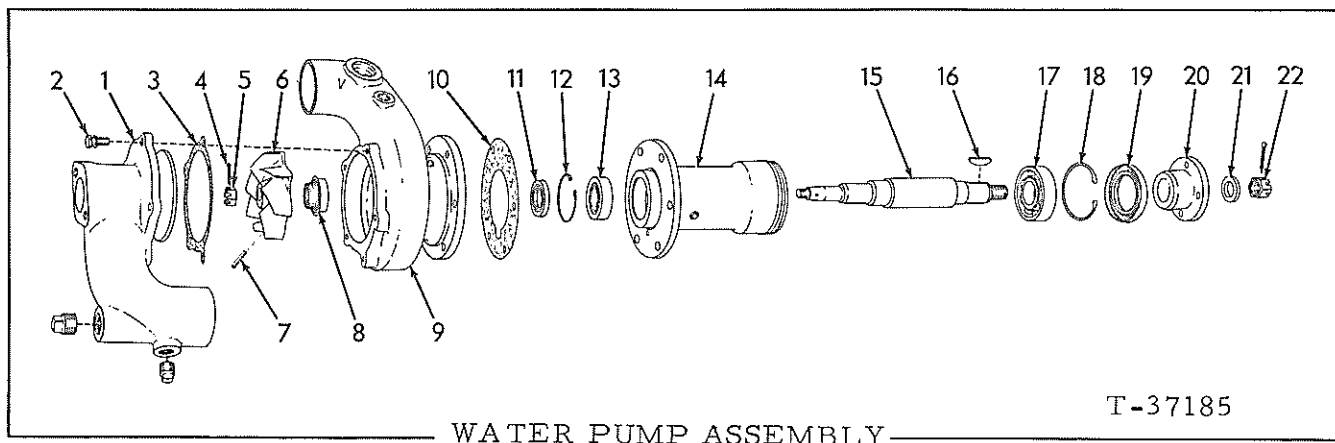
# WATER PUMP

USAGE: Engines serial No. 16-09529 and up

| ITEM | PART NO. | QTY. | DESCRIPTION                                                   |
|------|----------|------|---------------------------------------------------------------|
| 1    | 74387607 | 1    | PUMP ASSEMBLY (See page 95 for parts)                         |
|      | 70918887 | 1    | PLUG, pipe, hex-socket, 3/8"NPT                               |
|      | 70920333 | 1    | PLUG, pipe, hex-hd., 3/8"NPT                                  |
| 2    | 74513810 | 5    | STUD, attaching                                               |
|      | 70904206 | 5    | LOCKWASHER, 3/8"                                              |
|      | 70910123 | 5    | NUT, 3/8"NF                                                   |
| 3    | 74376398 | 1    | □GASKET, pump mounting                                        |
| 4    | 70923935 | 1    | □O-RING, pump body                                            |
| 5    | 74361740 | 1    | □GASKET idler support                                         |
| 6    | 74386855 | 1    | SUPPORT, belt tightening idler                                |
|      | 70919224 | 1    | CAPSCREW, 3/8"NC x 1-1/8"                                     |
|      | 70912069 | 2    | CAPSCREW, 3/8"NC x 2-1/2"                                     |
|      | 70904206 | 3    | LOCKWASHER, 3/8"                                              |
| 7    | -----    | 1    | IDLER ASSEMBLY, belt tightening (Consists of items 8 thru 17) |
| 8    | 74390120 | 1    | BRACKET, idler                                                |
|      | 70916314 | 1    | CAPSCREW, 1/2"NC x 2"                                         |
|      | 70910510 | 1    | NUT, jam, 1/2"NC                                              |
|      | 70904208 | 1    | LOCKWASHER 1/2"                                               |
| 9    | 70924863 | 1    | SCREW, bracket clamping (1/2"NC x 3-3/4")                     |
| 10   | 74255110 | 1    | CAP, idler pulley                                             |
| 11   | 74390655 | 1    | BOLT, idler pulley                                            |
|      | 70910175 | 1    | NUT, jam, 3/4"NF                                              |
|      | 70927382 | 1    | WASHER, plain                                                 |
| 12   | 74391650 | 1    | PULLEY, idler                                                 |
| 13   | 74391154 | 1    | BEARING, ball, idler pulley                                   |
| 14   | 74254100 | 1    | RING, snap, idler pulley                                      |
| 15   | 74255839 | 1    | SEAL, oil, idler pulley                                       |
| 16   | 74390992 | 1    | SHAFT, idler pulley                                           |
| 17   | 74391687 | 1    | SPACER, idler shaft                                           |
| 18   | 74391593 | 1    | PULLEY, idler                                                 |
|      | 74752002 | 4    | BOLT (self-locking, 3/8"NF x 1/2")                            |
| 19   | 74391351 | 1    | BELT, pump driving                                            |
| 20   | 70089894 | 1    | COCK, water drain                                             |
| 21   | 70089107 | 1    | CLAMP, hose, spring type, 15/16" diam.                        |
| 22   | 70643744 | 1    | HOSE, water drain                                             |
| 23   | 70096208 | 1    | ANGLE, supporting, water drain hose                           |
| 24   | 70069657 | 1    | CLIP, drain hose                                              |
|      | 70035167 | 1    | CAPSCREW, 3/8"NF x 7/8"                                       |
|      | 70904206 | 1    | LOCKWASHER, 3/8"                                              |
|      | 70911041 | 1    | NUT, 3/8"NF                                                   |
| 25   | -----    | 1    | HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)            |

(Added December 1968)

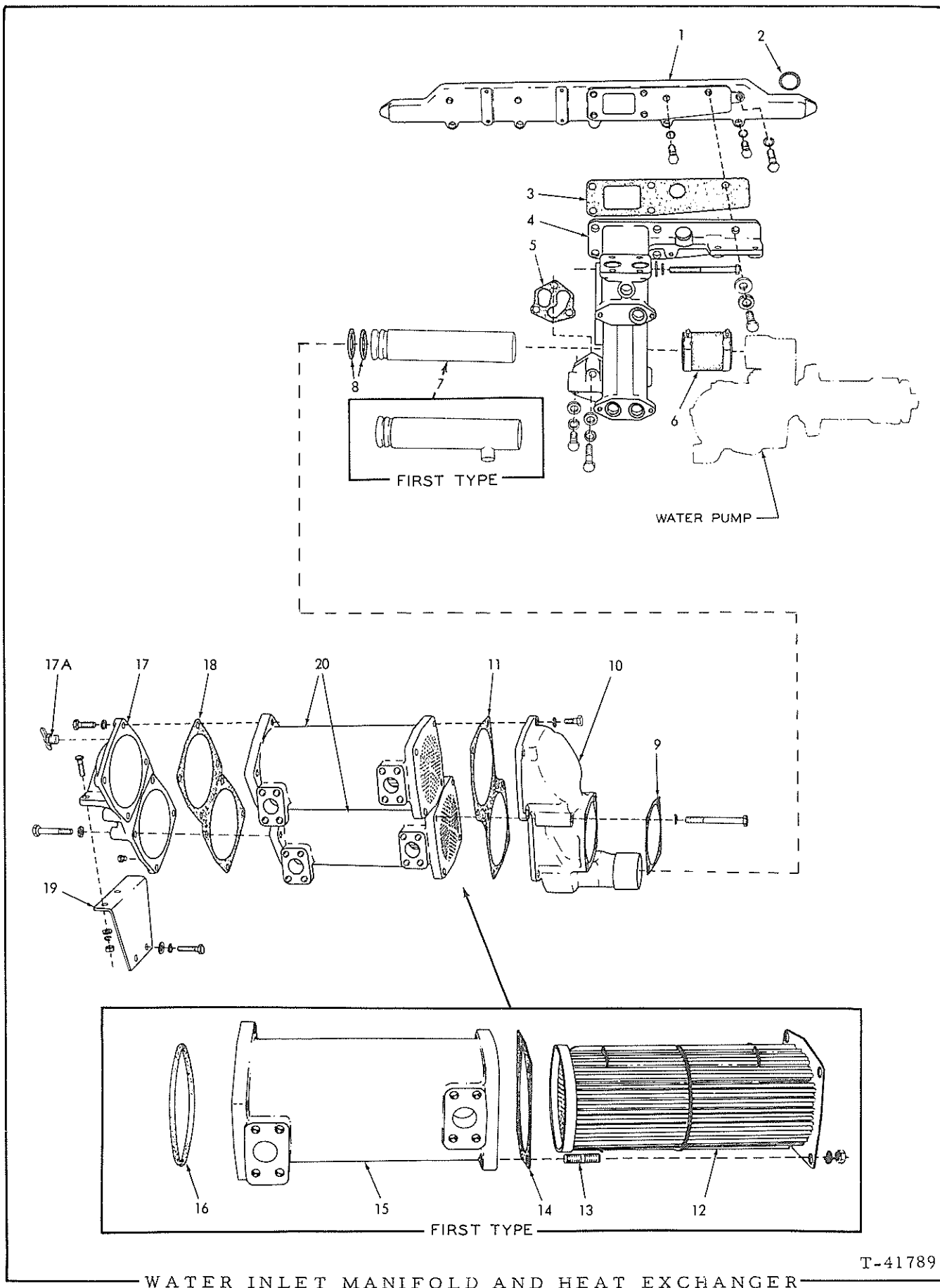




USAGE: See page 93.

\* Pump assembly 74387607 (Original equipment)  
 \*\* Pump assembly 74393323

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                                |
|------|----------|------|----|----------------------------------------------------------------------------|
|      |          | *    | ** |                                                                            |
| 1    | 74375682 | 1    | 1  | COVER, pump inlet                                                          |
|      | -----    | 1    | 1  | PLUG, pipe, 3/8"NPT (bottom)                                               |
|      | -----    | 1    | 1  | PLUG, pipe, 1/2"NPT (rear)                                                 |
| 2    | 74041092 | 4    | 4  | CAPSCREW ASSY. (Includes lockwasher)                                       |
| 3    | 74372421 | 1    | 1  | GASKET, pump inlet cover                                                   |
| 4    | 74041097 | 1    | -  | PIN, cotter, impeller retaining nut                                        |
| 5    | 74375686 | 1    | -  | NUT, impeller retaining                                                    |
| 6    | 74389359 | 1    | -  | IMPELLER ASSY.                                                             |
|      | 74393324 | -    | 1  | IMPELLER ASSY. (Includes ceramic insert)                                   |
| 7    | 74375694 | 1    | -  | PIN, impeller retaining                                                    |
| 8    | 74386862 | 1    | 1  | SEAL ASSY. (Serviced only as a unit)                                       |
| 9    | 74387609 | 1    | 1  | BODY, pump                                                                 |
| 10   | 74387051 | 1    | 1  | GASKET, pump body                                                          |
| 11   | 74386927 | 1    | -  | SEAL, oil, rear end (1" shaft diam. )(Used prior to engine #16-05010)      |
|      | 74387605 | 1    | 1  | SEAL, oil, rear end (31/32" shaft diam. )(Effective with engine #16-05010) |
| 12   | 74254100 | 1    | 1  | RING, snap, rear bearing                                                   |
| 13   | 74255338 | 1    | 1  | BEARING, roller (rear)                                                     |
| 14   | 74387050 | 1    | 1  | SLEEVE, extension                                                          |
| 15   | 74387606 | 1    | -  | SHAFT (If for engines prior to #16-05010 also order SEAL 74387605)         |
|      | 74393325 | -    | 1  | SHAFT                                                                      |
| 16   | 74660677 | 1    | 1  | KEY, pump shaft                                                            |
| 17   | 74253871 | 1    | 1  | BEARING, ball (front)                                                      |
| 18   | 74253318 | 1    | 1  | RING, snap, front bearing                                                  |
| 19   | 74254948 | 1    | 1  | SEAL, oil, front end                                                       |
| 20   | 74386924 | 1    | 1  | HUB, drive                                                                 |
| 21   | 74375691 | 1    | 1  | WASHER, hub retaining                                                      |
| 22   | 70912331 | 1    | -  | NUT, slatted, 3/4"NF                                                       |
|      | 70900808 | 1    | -  | PIN, cotter, 1/8" x 1-1/2"                                                 |
|      | 70918182 | -    | 1  | NUT, self-locking, 3/4"NF (plated)                                         |



T-41789

# WATER INLET MANIFOLD AND HEAT EXCHANGER

USAGE: Tractors prior to serial no. 8399. For superseding design, see page 98B

\* Engines prior to serial No. 16-07552

\*\* Engines serial No. 16-07552 and up

| ITEM | PART NO. | QTY. |    | DESCRIPTION                                                                                             |
|------|----------|------|----|---------------------------------------------------------------------------------------------------------|
| 1    | 74389289 | 1    | 1  | MANIFOLD, water inlet                                                                                   |
|      | 70919231 | 4    | 4  | CAPSCREW, 1/2"NC x 1-7/8"                                                                               |
|      | 70916317 | 3    | 3  | CAPSCREW, 1/2"NC x 2-3/4"                                                                               |
|      | 70915969 | 1    | 1  | CAPSCREW, 1/2"NC x 3" (Also attaches water filter hose bracket)                                         |
|      | 70904208 | 8    | 8  | LOCKWASHER, 1/2"                                                                                        |
| 2    | 70923576 | 12   | 12 | <input type="checkbox"/> O-RING, water inlet manifold                                                   |
| 3    | 74389635 | 1    | 1  | <input type="checkbox"/> GASKET, water and oil manifold                                                 |
| 4    | 74377455 | 1    | -  | MANIFOLD ASSEMBLY, water and oil (Includes PLUGS 70904224)(Used prior to engine #16-05686)              |
|      | 70904224 | 2    | -  | PLUG, pipe, ctsk-hd., 3/4"NPT                                                                           |
|      | -----    | 1    | -  | MANIFOLD, water and oil (Engines #16-05686 thru #16-07163. Order MANIFOLD 74388147 and BONNET 74389840) |
|      | 74388147 | 1    | 1  | MANIFOLD, water and oil (Effective with engine #16-07164)                                               |
|      | 70916311 | 5    | 5  | CAPSCREW, 1/2"NC x 1-1/4"                                                                               |
|      | 70915987 | 2    | 2  | CAPSCREW, 1/2"NC x 1-1/2"                                                                               |
|      | 70914399 | 1    | -  | CAPSCREW, 1/2"NC x 3-3/4" (Used prior to engine #16-05686)                                              |
|      | 70916320 | 1    | 1  | CAPSCREW, 1/2"NC x 4" (Effective with engine #16-05686)                                                 |
|      | 70904208 | 8    | 8  | LOCKWASHER, 1/2"                                                                                        |
|      | 70912333 | 8    | 8  | WASHER, plain                                                                                           |
| 5    | 74386495 | 1    | 1  | <input type="checkbox"/> GASKET, manifold to block                                                      |
| 6    | 74662263 | 1    | 1  | HOSE, heat exchanger to water pump                                                                      |
|      | 70922199 | 2    | 2  | CLAMP, hose, 2-9/16" to 3-9/16" diam.                                                                   |
| 7    | 74387510 | 1    | 1  | TUBE, pump to bonnet (Used prior to engine #16-07836)                                                   |
|      | 74388185 | -    | 1  | TUBE, pump to bonnet (Effective with engine #16-07836)                                                  |
| 8    | 70923651 | 2    | 2  | <input type="checkbox"/> O-RING, bonnet tube                                                            |
| 9    | 74371160 | 1    | 1  | <input type="checkbox"/> GASKET, adaptor to manifold                                                    |
| 10   | 74387418 | 1    | 1  | ADAPTOR, heat exchanger                                                                                 |
|      | 70919294 | 2    | 2  | CAPSCREW, 1/2"NC x 4-1/4" } To Exchanger                                                                |
|      | 70915987 | -    | 6  | CAPSCREW, 1/2"NC x 1-1/2" }                                                                             |
|      | 70916322 | 4    | 4  | CAPSCREW, 1/2"NC x 5" (To Manifold)                                                                     |
|      | 70904208 | 6    | 12 | LOCKWASHER, 1/2"                                                                                        |
|      | 70916009 | 4    | 4  | WASHER, plain                                                                                           |
|      | 74371107 | 2    | 2  | WASHER, plain (turbocharger supply line bracket)                                                        |
| 11   | 74389678 | 1    | 1  | <input type="checkbox"/> GASKET, heat exchanger adaptor                                                 |
| 12   | -----    | 2    | -  | TUBE-BUNDLE, heat exchanger (Order item 20)                                                             |
| 13   | 74367187 | 6    | -  | STUD, heat exchanger housing                                                                            |
|      | 70904208 | 6    | -  | NUT, 1/2"NF                                                                                             |
|      |          |      |    | LOCKWASHER, 1/2"                                                                                        |
| 14   | 74386856 | 2    | -  | <input type="checkbox"/> GASKET, heat exchanger                                                         |
| 15   | 74387259 | 2    | -  | HOUSING, heat exchanger                                                                                 |

(Continued)

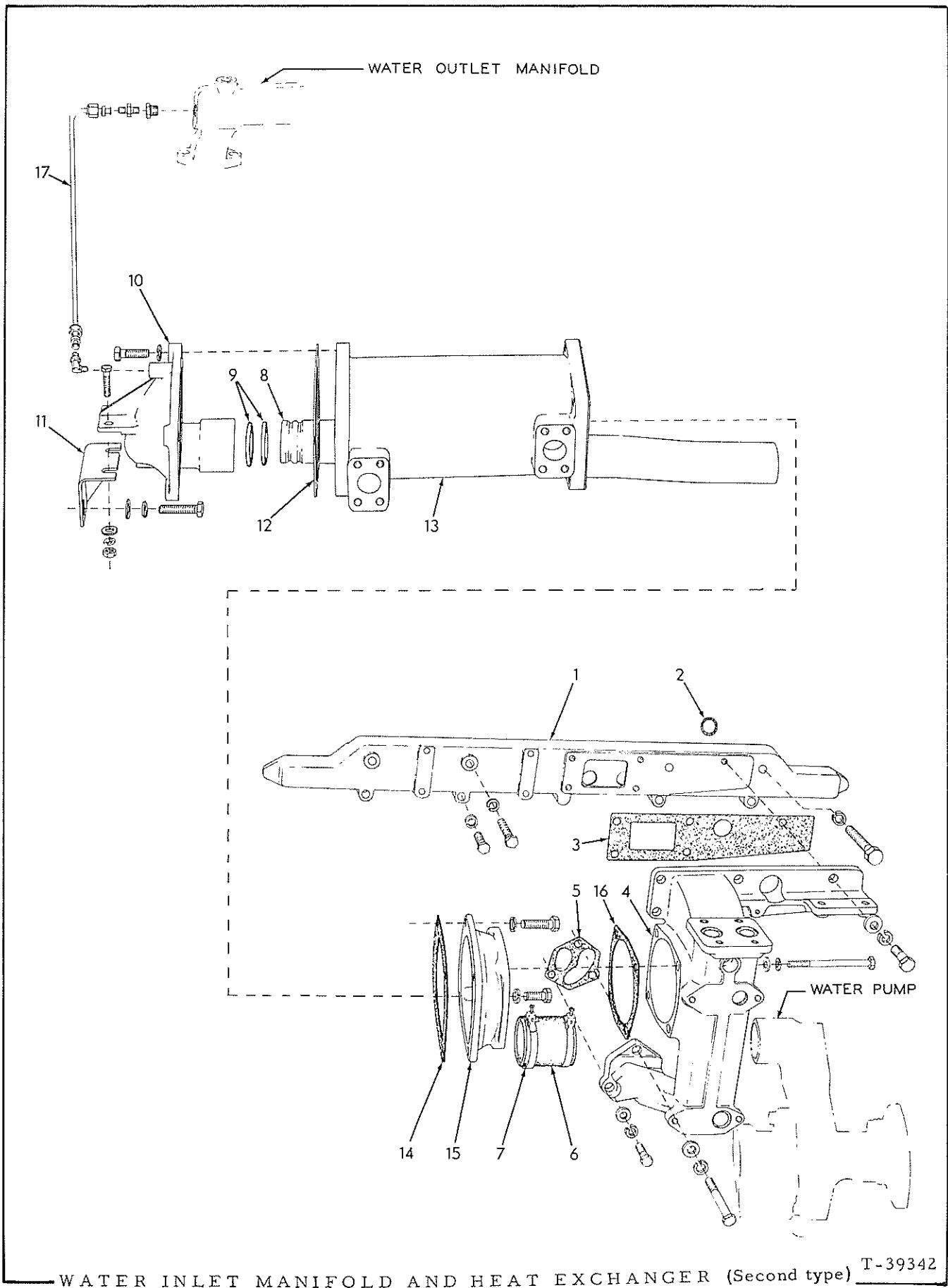
(Revised January 1979)



# WATER INLET MANIFOLD AND HEAT EXCHANGER (Continued)

| ITEM | PART NO. | QTY.<br>* ** | DESCRIPTION                                                                    |
|------|----------|--------------|--------------------------------------------------------------------------------|
| 16   | 70923605 | 2 -          | O-RING, heat exchanger                                                         |
| 17   | 74388465 | 1 1          | BONNET, heat exchanger (If for engines prior to #16-07642 also order item 17A) |
|      | 70919840 | 1 1          | PLUG, pipe, hex-hd., 1/4"NPT                                                   |
|      | 70915987 | 4 4          | CAPSCREW, 1/2"NC x 1-1/2"                                                      |
|      | 70915969 | 4 4          | CAPSCREW, 1/2"NC x 3"                                                          |
|      | 70904208 | 8 8          | LOCKWASHER, 1/2"                                                               |
|      | 70914847 | 2 2          | CAPSCREW, 3/8"NC x 1-1/2"                                                      |
|      | 70911115 | 2 2          | WASHER, plain, SAE std., 3/8"                                                  |
|      | 70904206 | 2 2          | LOCKWASHER, 3/8"                                                               |
|      | 70910324 | 2 2          | NUT, 3/8"NF                                                                    |
|      |          |              | To heat exchanger                                                              |
|      |          |              | To supporting bracket                                                          |
| 17A  | 74255363 | - 1          | COCK, vent,heat exchanger bonnet (Effective with engine #16-07642)             |
| 18   | 74389676 | 1 1          | GASKET, heat exchanger bonnet                                                  |
| 19   | 74387453 | 1 1          | BRACKET, supporting, heat exchanger                                            |
|      | 70922290 | 2 2          | CAPSCREW, 1/2"NC x 2"                                                          |
|      | 70910244 | 2 2          | WASHER, plain, SAE std., 1/2"                                                  |
|      | 70904208 | 2 2          | LOCKWASHER, 1/2"                                                               |
| 20   | 74389045 | - 2          | EXCHANGER, heat                                                                |





# WATER INLET MANIFOLD AND HEAT EXCHANGER

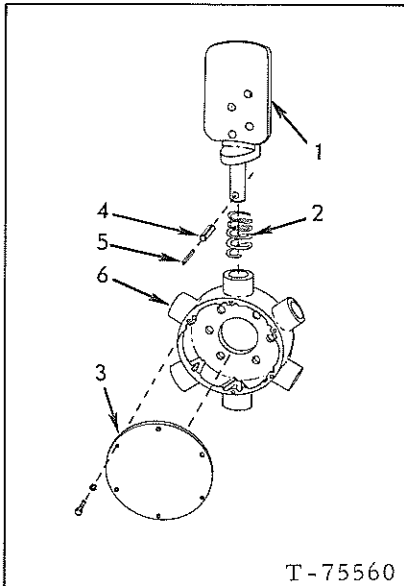
USAGE: Tractors serial No. 8399 and up

| ITEM | PART NO. | QTY. | DESCRIPTION                                                     |
|------|----------|------|-----------------------------------------------------------------|
| 1    | 74389289 | 1    | MANIFOLD, water inlet                                           |
|      | 70919231 | 4    | CAPSCREW, 1/2"NC x 1-7/8"                                       |
|      | 70916317 | 3    | CAPSCREW, 1/2"NC x 2-3/4"                                       |
|      | 70915969 | 1    | CAPSCREW, 1/2"NC x 3" (Also attaches water filter hose bracket) |
|      | 70904208 | 8    | LOCKWASHER, 1/2"                                                |
| 2    | 70923576 | 12   | O-RING, water inlet manifold                                    |
| 3    | 74389291 | 1    | GASKET, water and oil manifold                                  |
| 4    | 74388147 | 1    | MANIFOLD, water and oil                                         |
|      | 70916311 | 5    | CAPSCREW, 1/2"NC x 1-1/4"                                       |
|      | 70915987 | 2    | CAPSCREW, 1/2"NC x 1-1/2"                                       |
|      | 70916320 | 1    | CAPSCREW, 1/2"NC x 4"                                           |
|      | 70904208 | 8    | LOCKWASHER, 1/2"                                                |
|      | 70912333 | 8    | WASHER, plain                                                   |
| 5    | 74386495 | 1    | GASKET, manifold to block                                       |
| 6    | 74662263 | 1    | HOSE, heat exchanger to water pump                              |
| 7    | 74253464 | 2    | CLAMP, hose                                                     |
| 8    | 74388501 | 1    | TUBE, pump to bonnet                                            |
| 9    | 74254806 | 2    | O-RING, bonnet tube                                             |
| 10   | 74388464 | 1    | BONNET, heat exchanger                                          |
|      | 70915987 | 4    | CAPSCREW, 1/2"NC x 1-1/2"                                       |
|      | 70904208 | 4    | LOCKWASHER, 1/2"                                                |
|      | 70914847 | 2    | CAPSCREW, 3/8"NC x 1-1/2"                                       |
|      | 70911115 | 2    | WASHER, plain, SAE std., 3/8"                                   |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                |
|      | 70910324 | 2    | NUT, 3/8"NC                                                     |
| 11   | 74391325 | 1    | BRACKET, supporting, heat exchanger                             |
|      | 70922290 | 2    | CAPSCREW, 1/2"NC x 2"                                           |
|      | 70910244 | 2    | WASHER, plain, SAE std., 1/2"                                   |
|      | 70904208 | 2    | LOCKWASHER, 1/2"                                                |
| 12   | 74386223 | 1    | GASKET, heat exchanger bonnet                                   |
| 13   | 74390506 | 1    | EXCHANGER, heat                                                 |
| 14   | 74386856 | 1    | GASKET, heat exchanger to adaptor                               |
| 15   | 74393546 | 1    | ADAPTOR, heat exchanger                                         |
|      | 70915987 | 3    | CAPSCREW, 1/2"NC x 1-1/2" } to exchanger                        |
|      | 70916310 | 1    | CAPSCREW, 1/2"NC x 1" }                                         |
|      | 70916322 | 4    | CAPSCREW, 1/2"NC x 5"(to manifold)                              |
|      | 70904208 | 8    | LOCKWASHER, 1/2"                                                |
|      | 70916009 | 4    | WASHER, plain                                                   |
| 16   | 74371160 | 1    | GASKET, adaptor to manifold                                     |
| 17   | 74391998 | 1    | TUBE, air bleed                                                 |
|      | 70917808 | 2    | NUT, Imperial, 1/4" tube                                        |
|      | 70917806 | 2    | SLEEVE, Imperial, 1/4" tube                                     |
|      | 70919481 | 1    | ELBOW, Imperial, 1/4" tube, 1/4"NPT male                        |
|      | 70920242 | 1    | CONNECTOR, Imperial, 1/4" tube, 1/4" NPT male                   |
|      | 70901839 | 1    | BUCHING, pipe reducing, 1/2"NPT to 1/4"NPT                      |



# REVERSIBLE FAN PARTS ("Huber")

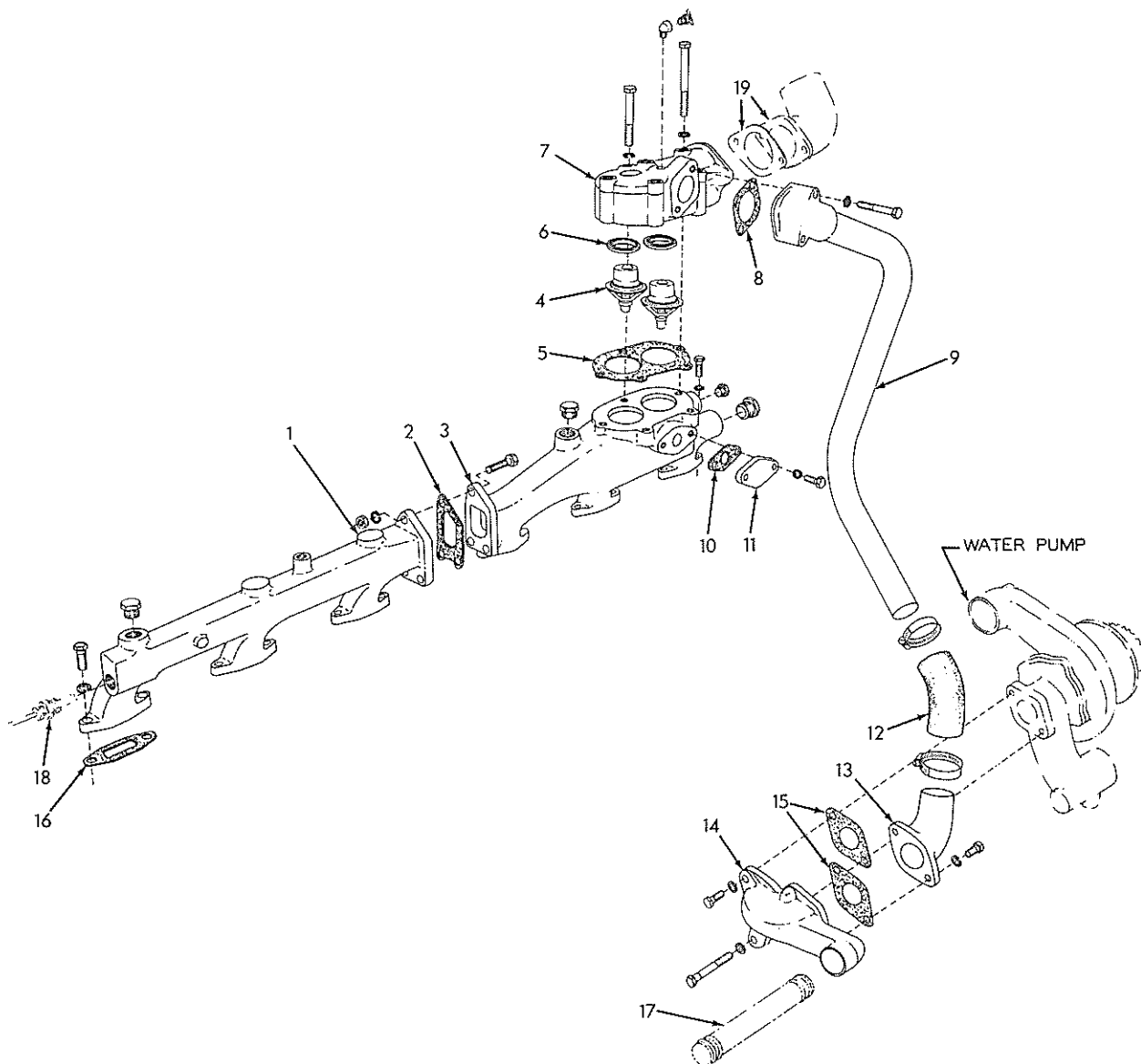
USAGE: See page 107



| ITEM | PART NO. | QTY. | DESCRIPTION                                       |
|------|----------|------|---------------------------------------------------|
| 1    | -----    | 6    | BLADE (See NOTE below)                            |
| 2    | 70668595 | 6    | SPRING                                            |
| 3    | 70668593 | 1    | COVER, dust                                       |
|      | 70926339 | 6    | CAPSCREW, #10-24 x 5/16"<br>(Includes lockwasher) |
| 4    | 70921839 | 6    | PIN, blade retaining, outer 5/16" O. D.)          |
| 5    | 70915989 | 6    | PIN, blade retaining, inner (3/16" O. D.)         |
| 6    | -----    | 1    | HUB (See NOTE below)                              |

NOTE: Blade and Hub replacements require precision balancing. Return complete fan to HUBER REVERSIBLE FAN CO., 2103 Hershey Rd., Erie, Pennsylvania 16509.

(Revised March 1972)



WATER OUTLET MANIFOLD

T-37209

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                   |
|------|----------|------|-------------------------------------------------------------------------------|
| 1    | 74394959 | 1    | MANIFOLD, rear (For engines prior to #16-10992<br>also order 2 PLUG 70924636) |
|      | 70920416 | 1    | PLUG, pipe, hex-hd., 1/2"NPT                                                  |
|      | 70919224 | 6    | CAPSCREW, 3/8"NC x 1-1/8"                                                     |
|      | 70919226 | 3    | CAPSCREW, 3/8"NC x 1-5/8"                                                     |
|      | 70904206 | 9    | LOCKWASHER, 3/8"                                                              |
|      | 70910324 | 3    | NUT, 3/8"NC                                                                   |
|      | 70924636 | 1    | PLUG, hex-hd., brass, 1/2"NPT (Engines<br>#16-10461 and up)                   |

(Continued)

(Revised January 1979)

# WATER OUTLET MANIFOLD (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                                                                              |
|------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2    | 74392279 | 1    | <input type="checkbox"/> GASKET, manifold connecting                                                                                                                                                     |
| 3    | -----    | 1    | MANIFOLD, front (Engines prior to #16-07832)(Order 1 MANIFOLD 74394668, 1 PLUG 70920333, 1 BUSHING 70920774, 1 BUSHING 70920779, and 2 PLUG 70921073)                                                    |
|      | 74394668 | 1    | MANIFOLD, front (Service replacement)(Engine #16-07832 and up)(Also order 2 LOCKWASHER 70904206, 2 CAPSCREW 70915408, 1 BUSHING 70920774, 1 BUSHING 70920779, 1 PLUG 70921073, 1 item 10, and 1 item 11) |
|      | 70919840 | 1    | PLUG, pipe, hex-hd., 1/4"NPT                                                                                                                                                                             |
|      | 70920416 | 1    | PLUG, pipe, hex-hd., 1/2"NPT                                                                                                                                                                             |
|      | 70920525 | 1    | PLUG, pipe, hex-hd., 3/4"NPT                                                                                                                                                                             |
|      | 70919224 | 6    | CAPSCREW, 3/8"NC x 1-1/8"                                                                                                                                                                                |
|      | 70904206 | 6    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
|      | 70920333 | 1    | PLUG, pipe, hex-hd., 3/8"NPT                                                                                                                                                                             |
|      | 70921073 | 2    | PLUG, pipe, hex-hd., 1"NPT                                                                                                                                                                               |
|      | 70920779 | 1    | BUSHING, pipe, 3/8"NPT to 1/4"NPT                                                                                                                                                                        |
|      | 70920774 | 1    | BUSHING, pipe, 1"NPT to 3/8"NPT                                                                                                                                                                          |
|      | 70915408 | 2    | CAPSCREW, 3/8"NC x 3/4"                                                                                                                                                                                  |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
| 4    | 74354537 | 2    | THERMOSTAT                                                                                                                                                                                               |
| 5    | 74376520 | 1    | <input type="checkbox"/> GASKET, thermostat cover                                                                                                                                                        |
| 6    | 74317554 | 2    | SEAL, thermostat                                                                                                                                                                                         |
| 7    | 74389036 | 1    | COVER ASSEMBLY, thermostat (Includes item 6)                                                                                                                                                             |
|      | 70918374 | 1    | ELBOW, street, brass, 90°, 1/4"NPT                                                                                                                                                                       |
|      | 70912415 | 1    | COCK, T-handle, 1/4"NPT (For venting air)                                                                                                                                                                |
|      | 70918395 | 4    | CAPSCREW, 7/16"NC x 3-1/4"                                                                                                                                                                               |
|      | 70918740 | 1    | CAPSCREW, 7/16"NC x 4"                                                                                                                                                                                   |
|      | 70904207 | 5    | LOCKWASHER, 7/16"                                                                                                                                                                                        |
| 8    | 74386137 | 1    | <input type="checkbox"/> GASKET, water by-pass tube                                                                                                                                                      |
| 9    | 74386891 | 1    | TUBE, water by-pass                                                                                                                                                                                      |
|      | 70916274 | 2    | CAPSCREW, 3/8"NC x 2-1/4"                                                                                                                                                                                |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
| 10   | 74362458 | 1    | <input type="checkbox"/> GASKET, manifold cover                                                                                                                                                          |
| 11   | 74313015 | 1    | COVER, front manifold                                                                                                                                                                                    |
|      | 70915408 | 2    | CAPSCREW, 3/8"NC x 3/4"                                                                                                                                                                                  |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
| 12   | 74386894 | 1    | ELBOW, water by-pass tube (rubber)                                                                                                                                                                       |
|      | 70922198 | 2    | CLAMP, hose, 1-9/16" to 2-9/16" diam.                                                                                                                                                                    |
| 13   | 74386881 | 1    | ELBOW, water by-pass line                                                                                                                                                                                |
|      | 70916271 | 2    | CAPSCREW, 3/8"NC x 1"                                                                                                                                                                                    |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
| 14   | 74386779 | 1    | FLANGE, water pump                                                                                                                                                                                       |
|      | 70916272 | 1    | CAPSCREW, 3/8"NC x 1-1/4"                                                                                                                                                                                |
|      | 70920275 | 1    | CAPSCREW, 3/8"NC x 3"                                                                                                                                                                                    |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                                                                                                                                                                         |
| 15   | 74378112 | 2    | <input type="checkbox"/> GASKET, water pump flange                                                                                                                                                       |
| 16   | 74376483 | 6    | <input type="checkbox"/> GASKET, manifold to head                                                                                                                                                        |
| 17   | -----    | -    | TUBE, water (See OIL COOLER)                                                                                                                                                                             |
| 18   | -----    | -    | GAUGE, temperature (See INSTRUMENTS)                                                                                                                                                                     |
| 19   | -----    | -    | ELBOW AND GASKET (See RADIATOR AND MOUNTING)                                                                                                                                                             |

Not original equipment used with service replacement front manifold

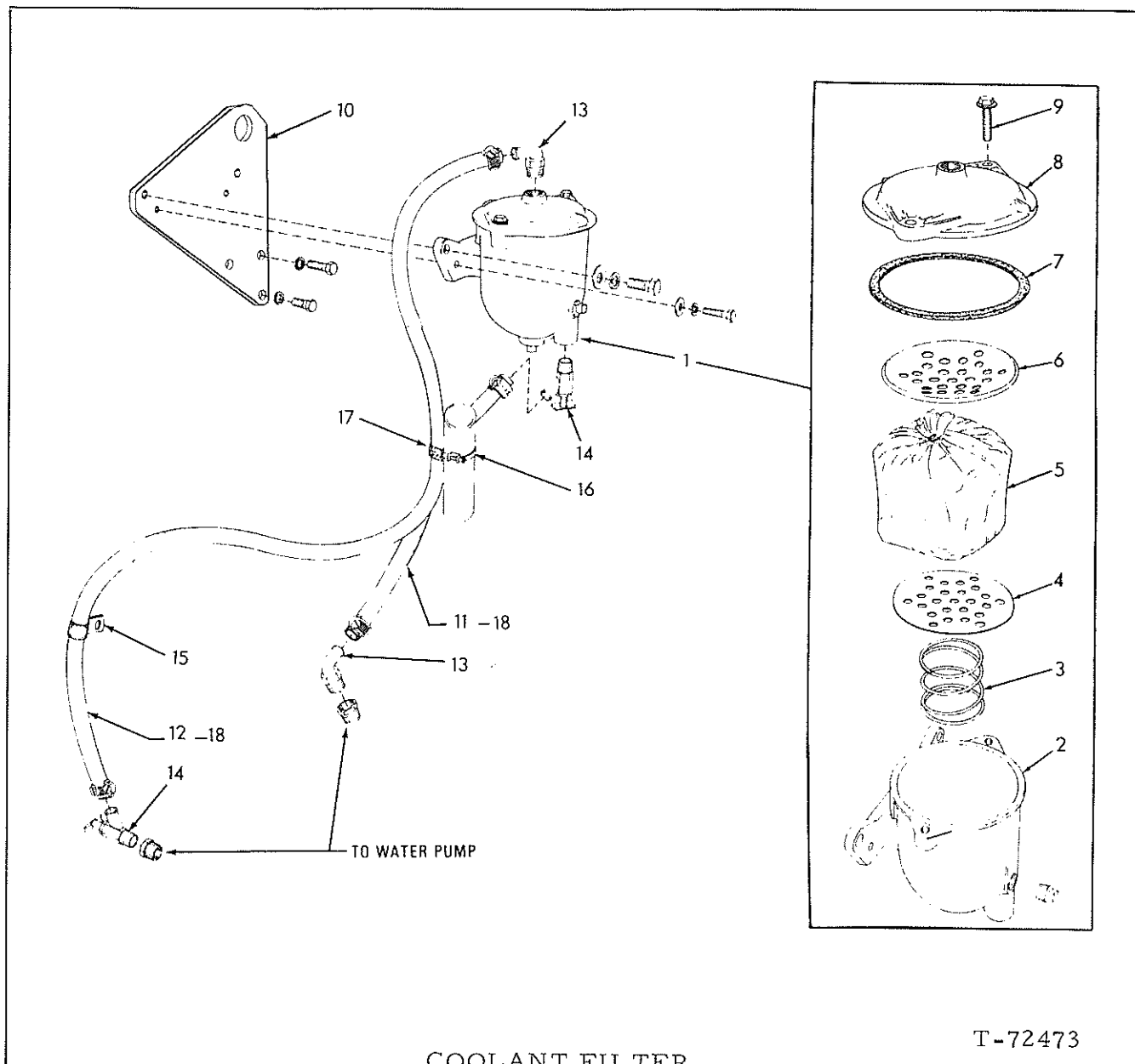
Used prior to engine #16-07832





# COOLANT FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                        |
|------|----------|------|----------------------------------------------------|
| 6    | 74055034 | 1    | PLATE, filter element, upper                       |
| 7    | 74054566 | 1    | GASKET, filter cover                               |
| 8    | 74055032 | 1    | COVER, filter                                      |
| 9    | 74055033 | 2    | BOLT ASSY., filter cover (Includes washer)         |
| 10   | 74387925 | 1    | BRACKET, filter mounting                           |
|      | 70916311 | 3    | CAPSCREW, 1/2"NC x 1-1/4"                          |
|      | 70904208 | 3    | LOCKWASHER, 1/2"                                   |
| 11   | 74255171 | 1    | VALVE, water shut-off (1/2" tube, 3/8"NPT male)    |
| 12   | 74387969 | 1    | HOSE ASSY., water line to filter                   |
|      | 70919063 | 1    | CONNECTOR, flare type, 1/2" tube, 3/8"NPT male     |
| 13   | 74387970 | 1    | HOSE ASSY., filter to water pump                   |
|      | 70919136 | 1    | ELBOW, flare type, 90°, 3/8" tube, 3/8"NPT male    |
| 14   | 74255170 | 1    | VALVE, water shut-off (3/8" tube, 3/8"NPT male)    |
|      | 70901835 | 1    | BUSHING, pipe reducing, brass, 1/2"NPT to 3/8"NPT) |
| 15   | 74254580 | 2    | CLAMP, water inlet hose                            |
| 16   | 74255010 | 2    | CLAMP, water outlet hose                           |
|      | 70916271 | 1    | CAPSCREW, 3/8"NC x 1"                              |
|      | 70916269 | 1    | CAPSCREW, 3/8"NC x 7/8"                            |
|      | 70911115 | 4    | WASHER, plain, SAE std., 3/8"                      |
|      | 70904206 | 2    | LOCKWASHER, 3/8"                                   |
|      | 70911026 | 2    | NUT, 3/8"NC                                        |
| 17   | 74387971 | 1    | BRACKET, hose supporting                           |
| 18   | 70637741 | 1    | CLIP, water outlet hose                            |
|      | 70910244 | 1    | WASHER, plain, SAE std., 1/2"                      |



| ITEM | PART NO. | QTY. | DESCRIPTION                                                                  |
|------|----------|------|------------------------------------------------------------------------------|
| 1    | 74359248 | 1    | FILTER ASSY., water (Consists of items 2 thru 9.<br>Has All-purpose element) |
|      | 70920582 | 2    | CAPSCREW, 1/2"NC x 1-1/4"                                                    |
|      | 70912441 | 2    | LOCKWASHER, 1/2"                                                             |
|      | 70921422 | 2    | CAPSCREW, 5/16"NC x 1-1/8"                                                   |
|      | 70901165 | 2    | WASHER, plain, U.S. std., 5/16"                                              |
|      | 70910286 | 2    | LOCKWASHER, 5/16"                                                            |
| 2    | 74055031 | 1    | BODY, filter                                                                 |
|      | 70920131 | 2    | PLUG, pipe, 3/8"NPT                                                          |
| 3    | 74054569 | 1    | SPRING, filter element                                                       |
| 4    | 74054568 | 1    | PLATE, filter element, lower                                                 |

(Continued)

# COOLANT FILTER (Continued)

| ITEM | PART NO. | QTY. | DESCRIPTION                                                                                                                                                                                                                |
|------|----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5    | 74059380 | 1    | ELEMENT KIT, filter (Includes items 4, 6 and 7)<br>(Chromate-type. For use with "Dowtherm" 209)                                                                                                                            |
|      | 74059979 | 1    | ELEMENT KIT, filter (Includes items 4, 6 and 7)<br>(Original equipment. All-purpose, recommended<br>for use with plain water as well as most types of<br>permanent and non-permanent anti-freeze except<br>"Dowtherm" 209) |
| 6    | 74055034 | 1    | PLATE, filter element, upper                                                                                                                                                                                               |
| 7    | 74054566 | 1    | GASKET, filter cover                                                                                                                                                                                                       |
| 8    | 74055032 | 1    | COVER, filter                                                                                                                                                                                                              |
| 9    | 74055033 | 2    | BOLT ASSY., filter cover (Includes washer)                                                                                                                                                                                 |
| 10   | 74392626 | 1    | BRACKET, filter mounting                                                                                                                                                                                                   |
|      | 70916311 | 3    | CAPSCREW, 1/2"NC x 1-1/4"                                                                                                                                                                                                  |
|      | 70904208 | 3    | LOCKWASHER, 1/2"                                                                                                                                                                                                           |
| 11   | -----    | 1    | HOSE, water pump to filter (14-1/2" long. Order<br>item 18)                                                                                                                                                                |
|      | 70921911 | 2    | CLAMP, hose, 11/16" to 1-1/4" diam.                                                                                                                                                                                        |
| 12   | -----    | 1    | HOSE, filter to water pump (56" long. Order item 18)                                                                                                                                                                       |
|      | 70921911 | 2    | CLAMP, hose, 11/16" to 1-1/4" diam.                                                                                                                                                                                        |
| 13   | 74255286 | 2    | ELBOW, water hose (90°, 5/8" nipple, 3/8"NPT)                                                                                                                                                                              |
|      | 74142263 | 1    | BUSHING, pipe reducing, 1"NPT to 3/8"NPT                                                                                                                                                                                   |
| 14   | 74255287 | 2    | VALVE, water shut-off (5/8" nipple 3/8"NPT)                                                                                                                                                                                |
|      | 70904271 | 1    | BUSHING, pipe, reducing, 1/2"NPT to 3/8NPT                                                                                                                                                                                 |
| 15   | 74255770 | 1    | CLAMP, water inlet hose                                                                                                                                                                                                    |
| 16   | 70919789 | 1    | CLAMP, hose binding                                                                                                                                                                                                        |
| 17   | 74388574 | 1    | SLEEVE, hose binding clamp (plastic)                                                                                                                                                                                       |
| 18   | 70920722 | 1    | HOSE, rubber 5/8"I. D., 25 ft. roll (Use as required)                                                                                                                                                                      |