

# PARTS CATALOG

## PAYLOADER®

### TRACTOR-SHOVEL

model  
**H-70F**

4-wheel-drive

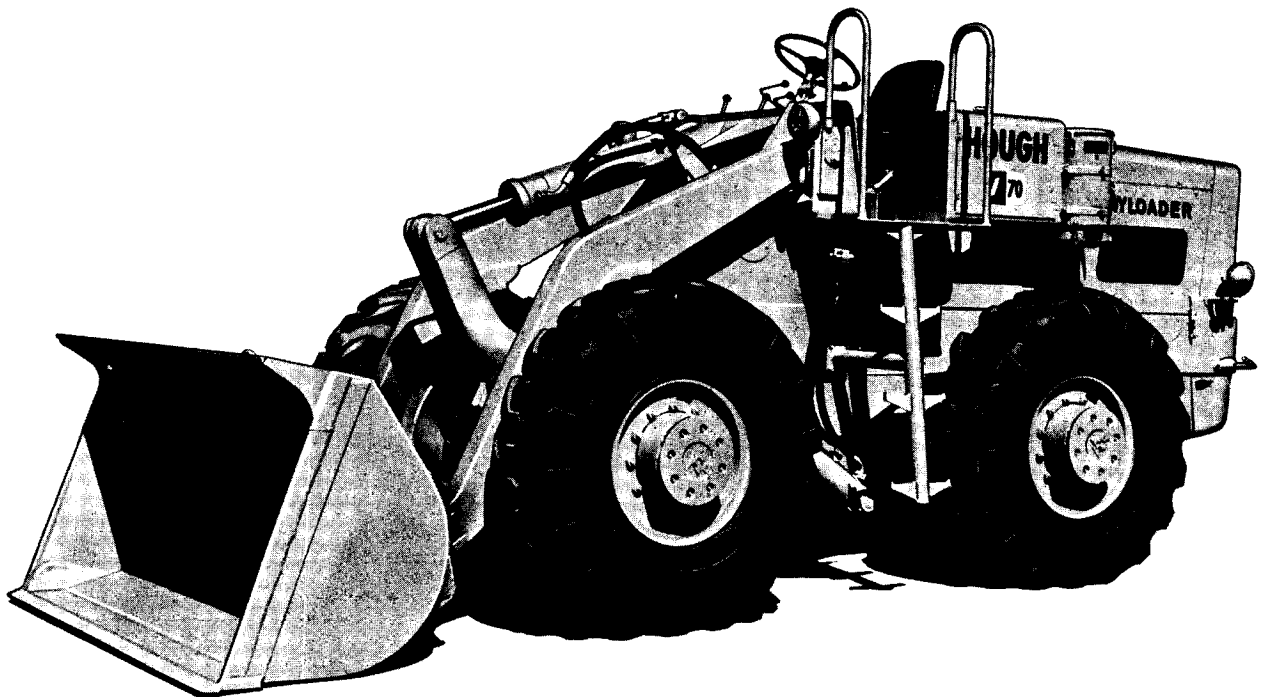
BEGINNING WITH SERIAL NUMBER

THE FRANK G. HOUGH CO. UNITS

21 FH-2901 & UP  
21 FC-2901 & UP  
21 FG-2901 & UP

HOUGHCO PRODUCTS LTD.

21 FH-6101 & UP  
21 FC-6101 & UP  
21 FG-6101 & UP



FORM

PM-H-70F-2

SEPTEMBER 1966

Supersedes PM-H-70F-1

Dated November 1965

PRINTED IN UNITED STATES OF AMERICA

## INTERNATIONAL®

AND

## HOUGH.

CONSTRUCTION EQUIPMENT

401 NORTH MICHIGAN AVENUE  
CHICAGO, ILLINOIS 60611, U.S.A.

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IT IS THE POLICY OF OUR COMPANY TO IMPROVE ITS PRODUCTS WHEN EVER POSSIBLE AND PRACTICAL TO DO SO. WE RESERVE THE RIGHT TO MAKE CHANGES OR ADD IMPROVEMENTS AT ANY TIME WITHOUT INCURRING ANY OBLIGATION TO MAKE SUCH CHANGES ON MODELS PREVIOUSLY SOLD.

If you should need information not given in this manual, or require the services of a trained mechanic, we urge you to use the extensive facilities offered by our dealers. Dealers are kept informed on the best methods of servicing and are equipped to provide service in the field or in an up-to-date service shop.

Dealers carry ample stock of essential parts.

Listed below you will find the name of dealers with whom your parts orders should be placed and who should be called upon for any required information concerning proper operating and maintenance procedure.

OUR DEALER IS: \_\_\_\_\_  
\_\_\_\_\_

When ordering parts, always give the dealer both the name and part number of the part required, and also the SERIAL NUMBER OF THE TRACTOR.

SO THAT YOU MAY HAVE IT BEFORE YOU, WRITE THE TRACTOR, POWER UNIT, TRANSMISSION, HYDRAULIC PUMP AND HYDRAULIC VALVE SERIAL NUMBERS HERE:

TRACTOR SERIAL NO: \_\_\_\_\_

ENGINE UNIT SERIAL NO: \_\_\_\_\_

REAR AXLE SERIAL NO: \_\_\_\_\_

FRONT AXLE SERIAL NO: \_\_\_\_\_

HYDRAULIC PUMP SERIAL NO: \_\_\_\_\_

HYDRAULIC VALVE SERIAL NO: \_\_\_\_\_

POWER TAKE-OFF SERIAL NO: \_\_\_\_\_

TORQUE CONVERTER SERIAL NO: \_\_\_\_\_

TRANSMISSION SERIAL NO: \_\_\_\_\_

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**DIRECTORY TO**  
**MODEL H-70 F PAYLOADER**  
**PARTS MANUAL**

THIS MANUAL IS USED SPECIFICALLY FOR THE  
 FOLLOWING SERIES OF MODEL H-70F PAYLOADER UNITS

OLD SERIAL NUMBER SYSTEM

|                 | MODEL | SERIES | POWER | UNIT NO.              |
|-----------------|-------|--------|-------|-----------------------|
| DT-429          | 21    | F      | H     | 2901 (Int. Harvester) |
| C-160           | 21    | F      | C     | 2901 (Cummins)        |
| Det. Diesel 471 | 21    | F      | G     | 2901 (Det. Diesel)    |

NEW SERIAL NUMBER SYSTEM

|                 | KIND | CODE | COUNTRY | UNIT NO.               |
|-----------------|------|------|---------|------------------------|
| DT-429          | 348  | 308  | U       | 03901 (Int. Harvester) |
| C-160           | 348  | 309  | U       | 03901 (Cummins)        |
| Det. Diesel 471 | 348  | 310  | U       | 03901 (Det. Diesel)    |

Each part pictured in this manual is given an identification number which corresponds to the item number in the parts lists of the group. These item numbers are given to identify the part and name of the items wanted. Parts listed herein apply to machines beginning with serial number shown on the outside cover, unless otherwise specified in the serial number column or at the top of the page. Figures in the "Qty" column indicate the number of that part used in the group -- not the total for the machine.

The bucket is always considered as the front end of the machine and right (R. H.) or left hand (L. H.) sides are determined by the operator's position when sitting in the seat and facing the bucket.

Always give the following information on all repair parts orders.

1. The Part Number, Name and Quantity of Items needed.
2. The Serial Number and Model Letters of the machine.
3. When ordering parts for the Transmission, Drive Axle, Pump, Valve, or Engine, be sure to give the Serial number and Model number of such units also.
4. Give the Destination and Method of Shipment desired along with any special invoicing instructions.

The black tabs shown on the right-hand side of this page line up with the corresponding tabs in the catalog. Tabs are quickly located by bending the catalog.

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# COMMERCIAL HARDWARE

Special code numbers are listed in the part number column by the contractor. Listed below is the coded index to be used to identify the capscrews, nuts, flatwashers and lockwashers. Such information shall be sufficiently complete to enable the customers to make the replacement from commercial sources, if necessary. All special hardware will have the regular six digit number.

**CAPSCREWS** - The letter "S" followed by the part number indicates the diameter in 16ths and the length in 8ths. S-1 is fine pitch, S-2 is coarse pitch.

EXAMPLE: S-1820 is fine pitch, 8/16" in diameter by 20/8" long or 1/2" NF x 2-1/2" SAE - Grade #5 steel.

**NUTS** - The letter "H" followed by an even number digit denotes coarse pitch and type of nut. An odd number digit denotes fine pitch and type of nut. Remainder of part number indicates size in 16ths.

EXAMPLE: H-18 denotes fine pitch, hexagon nut, 8/16" diameter or 1/2 - 20 thread. Types of nuts are digits 1 & 2 - Hex Nut, 3 & 4 - Jam Nut, 5 & 6 - Hexagon Slotted & 7 & 8 - Hex. Slotted Thick.

**WASHER, FLAT** - The letters "WF" followed by the 1st digit denotes type, (digit #1 is Wrought, digit #3 is SAE) 2nd and 3rd digit denotes bolt size of flatwasher in 16ths.

EXAMPLE: WF-18 denotes Wrought type washer 8/16" bolt size or 1/2" bolt size.

**LOCKWASHER** - The letters "WL" followed by 1st digit denotes thickness, (WL-1 is medium, WL-2 is light and WL-4 is heavy) 2nd and 3rd digit denotes bolt size of lockwasher in 16ths.

EXAMPLE: WL-18 denotes medium thickness, 8/16" bolt size or 1/2" bolt size of washer.

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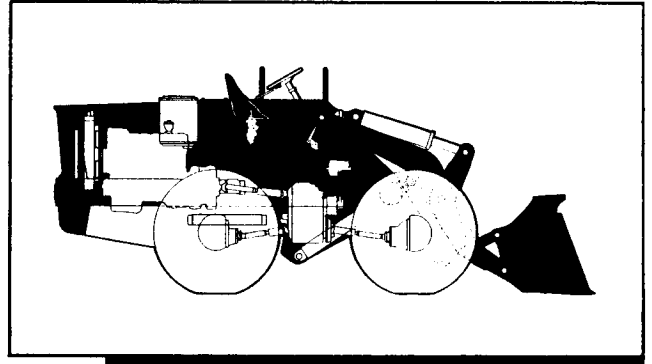
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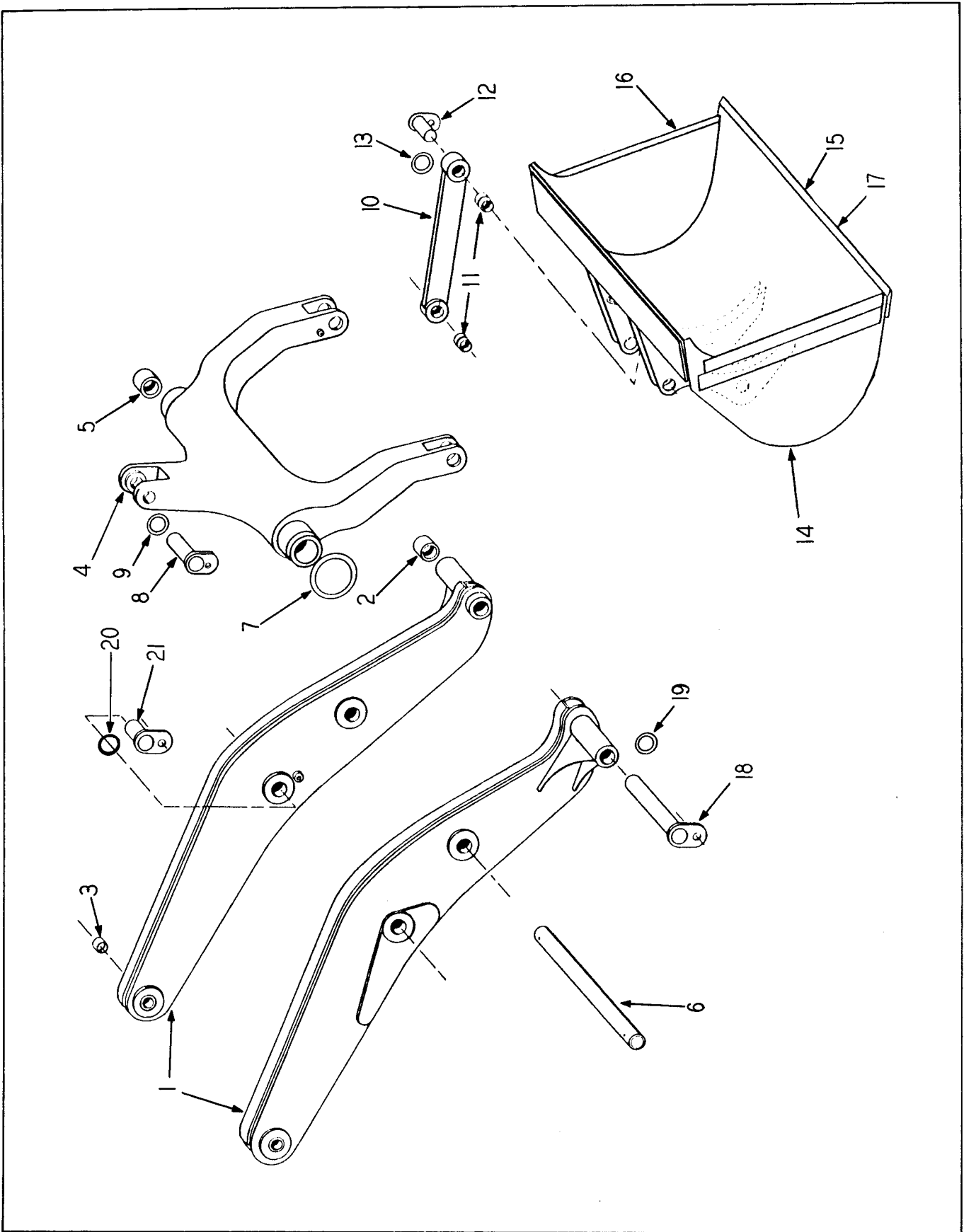
# SECTION 1

## CHASSIS



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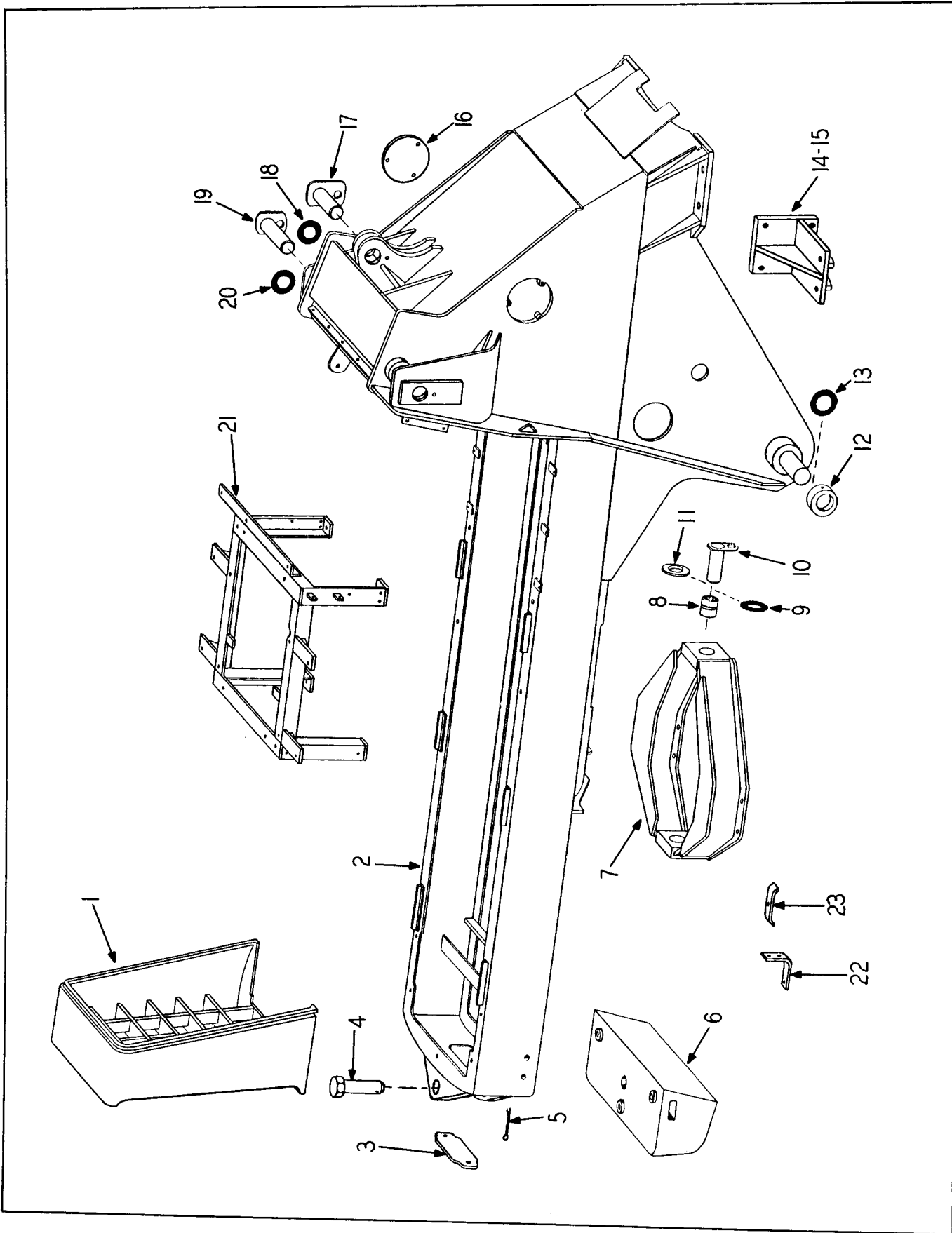


BOOM AND BUCKET



BOOM & BUCKET

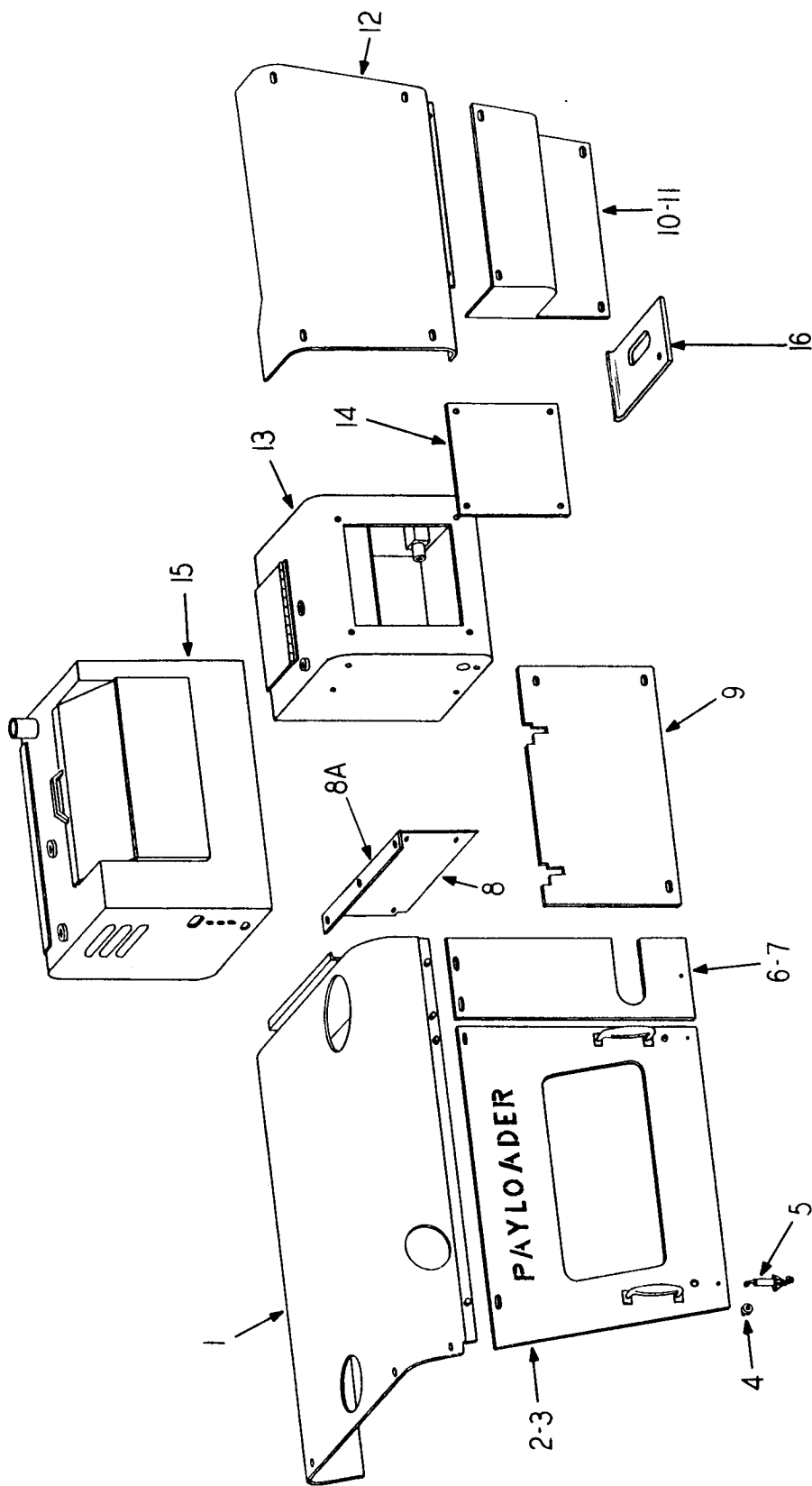
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 1        | 172178H2 | BOOM, R. H. ....  | 1    |
| 1        | 172179H2 | BOOM, L. H. ....  | 1    |
| 2        | 172190H1 | BUSHING .....   | 4    |
| 3        | 172195H1 | BUSHING .....   | 4    |
| 4        | 172061H1 | BELLCRANK, Includes Item 5 .....                        | 1    |
| 4        | 219537H2 | BELLCRANK - S/N 21FC-3098 & Up .....                    | 1    |
|          | 118491H1 | FITTING, Grease .....                                   | 2    |
| 5        | 172081H1 | BUSHING .....   | 2    |
| 6        | 172090H1 | SHAFT, Pivot .....                                      | 1    |
| 7        | 181614H1 | RING, Cord .....  | 2    |
|          | S-1846   | SCREW .....   | 2    |
|          | E - 18   | NUT .....   | 2    |
| 8        | 179585H1 | PINLOCK, Bucket Cylinder Pivot .....                    | 1    |
|          | S-1108   | SCREW, Cap .....  | 1    |
|          | WF-110   | WASHER, Flat .....                                      | 1    |
|          | WL-110   | WASHER, Lock .....                                      | 1    |
| 9        | 181614H1 | RING, Cord, Bucket Cylinder Bellcrank Pivot .....       | 2    |
| 10       | 211662H1 | LINK, Bucket, Includes Item 9 (Replaced 202947H1) ..... | 2    |
| 11       | 171890H1 | BUSHING .....   | 4    |
| 12       | 179519H1 | PINLOCK, Bucket Link .....                              | 4    |
|          | S-187    | SCREW, Cap .....  | 4    |
|          | WF-18    | WASHER, Flat .....                                      | 4    |
|          | WL-18    | WASHER, Lock .....                                      | 4    |
| 13       | 181613H1 | RING, Cord .....  | 8    |
| 14       | 210034H1 | BUCKET (Replaced 180286H1) .....                        | 1    |
| 15       | 216869H1 | CUTTING EDGE (Replaced 171839H1) .....                  | 1    |
| 16       | 162251H1 | CUTTING EDGE, Side .....                                | 2    |
| 17       | 207396H1 | TIP, Cutting Edge (Replaced 171841H1) .....             | 1    |
| 18       | 179515H2 | PINLOCK, Bucket Pivot .....                             | 2    |
|          | WF-18    | WASHER, Flat .....                                      | 2    |
|          | WL-18    | WASHER, Lock .....                                      | 2    |
|          | S-187    | SCREW, Cap .....  | 2    |
| 19       | 181613H1 | RING, Cord .....  | 4    |
| 20       | 181613H1 | RING, Cord .....  | 4    |
| 21       | 179517H1 | PIN LOCK, Cylinder Pivot .....                          | 2    |
|          | WF-18    | WASHER, Flat .....                                      | 2    |
|          | WL-18    | WASHER, Lock .....                                      | 2    |
|          | S-187    | SCREW, Cap .....  | 2    |
|          | 118491H1 | FITTING, Grease .....                                   | 8    |



MAIN FRAME

MAIN FRAME

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 172043H1 | GRILLE .....                                     | 1    |
|          | S-11026  | SCREW, Cap .....                                 | 1    |
|          | S-11030  | SCREW, Cap .....                                 | 2    |
|          | WF-310   | WASHER, Flat .....                               | 3    |
|          | WL-110   | WASHER, Lock .....                               | 3    |
|          | H-110    | NUT .....  | 3    |
| 2        | 207218H1 | FRAME, Main .....                                | 1    |
| 3        | 195715H1 | COVER, Rear Access Hole .....                    | 1    |
| 4        | 196501H1 | PIN, Drawbar .....                               | 1    |
| 5        | CP-816   | PIN, Cotter .....                                | 1    |
|          | S-1610   | SCREW, Cap .....                                 | 2    |
|          | WF-16    | WASHER, Flat & WL-16 WASHER, Lock (2) .....      | 2    |
| 6        | 183648H2 | COUNTERWEIGHT .....                              | 1    |
|          | S-11230  | SCREW, Cap .....                                 | 3    |
|          | WF-112   | WASHER, Flat .....                               | 3    |
|          | WL-112   | WASHER, Lock .....                               | 3    |
|          | H-112    | NUT .....  | 3    |
| 7        | 172136H1 | BOLSTER (Includes Item 8) .....                  | 1    |
| 8        | 158773H1 | BUSHING .....                                    | 2    |
| 9        | 172143H1 | RING, Cord .....                                 | 4    |
| 10       | 179521H1 | PIN & LOCKPLATE .....                            | 2    |
| 11       | 172142H1 | SPACER .....                                     | AR   |
|          | S-187    | SCREW, Cap .....                                 | 2    |
|          | WF-18    | WASHER, Flat .....                               | 2    |
|          | WL-18    | WASHER, Lock .....                               | 2    |
|          | 118492H1 | FITTING, Grease .....                            | 2    |
|          | 187504H1 | SPACER .....                                     | 2    |
|          | 125319H2 | SCREW, Cap .....                                 | 8    |
|          | 209135H1 | NUT .....  | 8    |
| 12       | 171900H1 | COLLAR .....                                     | 2    |
|          | S-1842   | SCREW, Cap .....                                 | 2    |
|          | WL-18    | WASHER, Lock .....                               | 2    |
|          | H - 18   | NUT .....  | 2    |
| 13       | 181615H1 | RING, Cord .....                                 | 4    |
| 14       | 204823H1 | SUPPORT, Transmission R.H. (Stamped "R") .....   | 1    |
| 15       | 204824H1 | SUPPORT, Transmission L.H. (Stamped "L") .....   | 1    |
|          | S-21011  | SCREW, Cap .....                                 | 8    |
|          | WL-110   | WASHER, Lock .....                               | 8    |
|          | S-11018  | SCREW, Cap .....                                 | 6    |
|          | WF-110   | WASHER, Flat .....                               | 6    |
|          | E-110    | NUT .....  | 6    |
|          | 172134H2 | BOLT .....                                       | 8    |
|          | 209134H1 | NUT .....  | 8    |
| 16       | 172547H1 | COVER, Access Hole .....                         | 2    |
|          | S-255    | SCREW, Cap .....                                 | 6    |
|          | WL-15    | WASHER, Lock .....                               | 6    |
| 17       | 179583H1 | PINLOCK, Bucket Cylinder Pivot .....             | 1    |
|          | S-1108   | SCREW, Cap .....                                 | 1    |
|          | WF-110   | WASHER, Flat .....                               | 1    |
|          | WL-110   | WASHER, Lock .....                               | 1    |
| 18       | 181614H1 | RING, Cord .....                                 | 2    |
| 19       | 179513H1 | PINLOCK, Boom Pivot .....                        | 2    |
|          | S-1108   | SCREW, Cap .....                                 | 2    |
|          | WF-110   | WASHER, Flat .....                               | 2    |
|          | WL-110   | WASHER, Lock .....                               | 2    |
| 20       | 181614H1 | RING, Cord .....                                 | 4    |
| 21       | 207043H1 | SUPPORT, Reservoir Battery Box & Seat Deck ..... | 1    |
|          | S-1816   | SCREW, Cap .....                                 | 4    |
|          | E - 18   | NUT .....  | 4    |
| 22       | 180268H1 | ANGLE, Cross Pipe Support .....                  | 1    |
| 23       | 180269H1 | CLIP, Cross Pipe Support .....                   | 1    |
|          | S-1620   | SCREW, Cap - Cross Pipe to Angle .....           | 1    |
|          | S-1610   | SCREW, Cap - Angle to Angle .....                | 2    |
|          | H - 16   | NUT .....  | 3    |
|          | WL-16    | WASHER, Lock .....                               | 3    |



SHEET COWLING

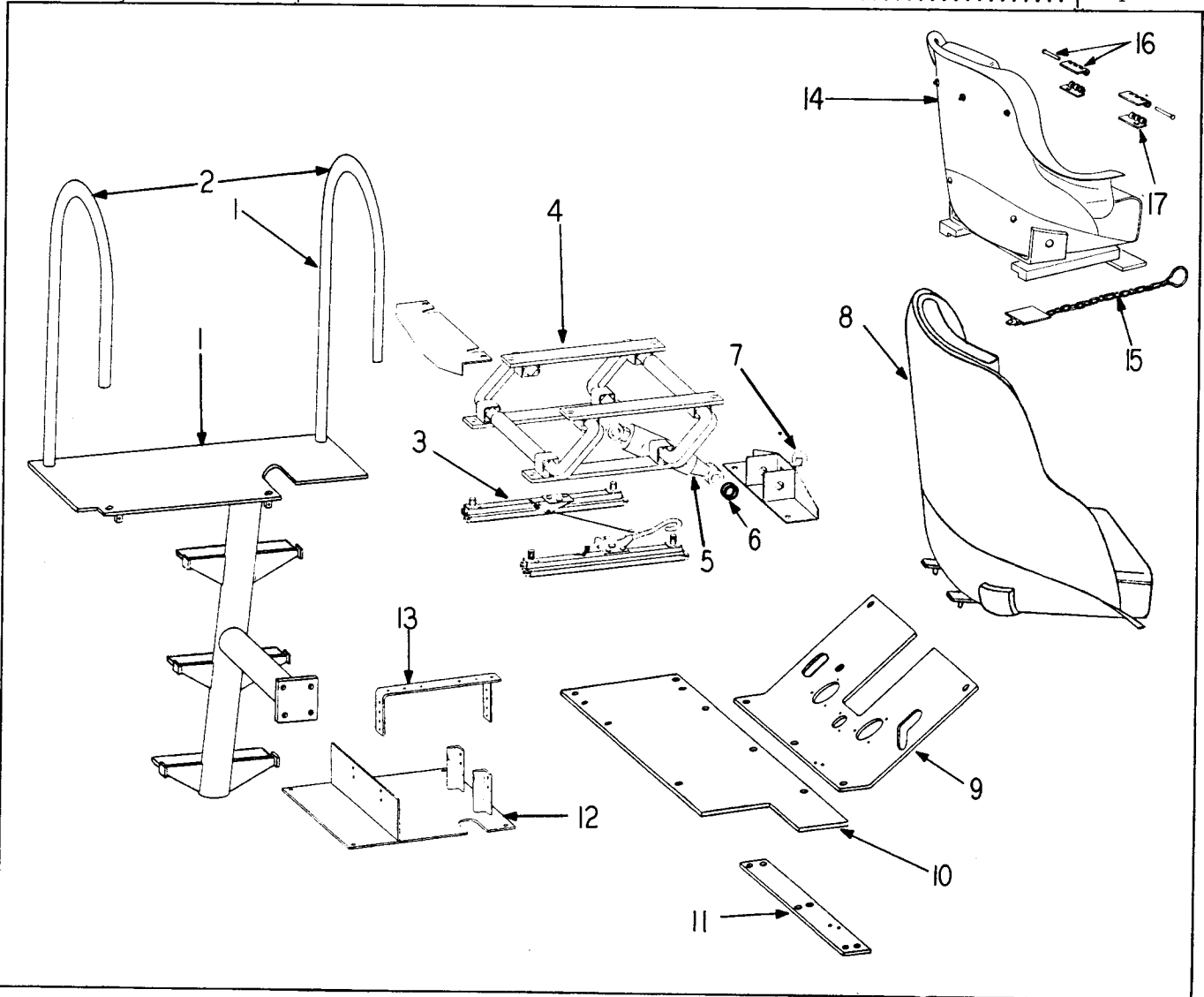
SHEET COWLING

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 205078H3 | HOOD, Rear (For models with IH Engines) . . . . .      | 1    |
| 1        | 172532H2 | HOOD, Rear (For models with Cummins Engines) . . . . . | 1    |
| 1        | 181664H1 | HOOD, Rear (For models with Detroit Engines) . . . . . | 1    |
|          | S-167    | SCREW, Cap, Hood Front Mounting . . . . .              | 3    |
|          | S-1611   | SCREW, Cap, Hood Rear Mounting . . . . .               | 4    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 7    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 4    |
|          | H - 16   | NUT . . . . .  | 7    |
| 2        | 172533H1 | PANEL ASSEMBLY, Rear R.H. Side . . . . .               | 1    |
| 3        | 172534H1 | PANEL ASSEMBLY, Rear L.H. Side . . . . .               | 1    |
| 4        | 153619H1 | BUMPER . . . . .                                       | 4    |
|          | 153640H1 | SCREW . . . . .  | 4    |
|          | 104467H1 | NUT . . . . .  | 4    |
|          | 104469H1 | WASHER, Lock . . . . .                                 | 4    |
| 5        | 153618H1 | LATCH . . . . .  | 4    |
|          | 168753H1 | SCREW, Latch to Frame . . . . .                        | 12   |
| 6        | 172535H1 | PANEL, R.H. Rear Side, Small . . . . .                 | 1    |
| 7        | 176200H1 | PANEL, L.H. Rear Side, Small . . . . .                 | 1    |
|          | S-167    | SCREW, Cap . . . . .                                   | 2    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 2    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 2    |
| 8        | 179148H1 | PANEL, Operator's Compartment Rear . . . . .           | 1    |
| 8A       | 182574H1 | PLATE, Operator's Compartment Rear . . . . .           | 1    |
|          | S-167    | SCREW, Cap . . . . .                                   | 8    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 4    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 8    |
| 9        | 172539H2 | PANEL, Center, Side . . . . .                          | 2    |
|          | S-168    | SCREW, Cap . . . . .                                   | 8    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 8    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 8    |
| 10       | 175324H2 | PANEL, Forward Lower Side R.H. . . . .                 | 1    |
| 11       | 175325H1 | PANEL, Forward Lower Side L.H. . . . .                 | 1    |
|          | S-167    | SCREW, Cap . . . . .                                   | 8    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 8    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 8    |
| 12       | 175323H1 | PANEL, Forward Upper Side . . . . .                    | 1    |
|          | S-167    | SCREW, Cap . . . . .                                   | 4    |
|          | WF-36    | WASHER, Flat . . . . .                                 | 4    |
|          | WL-16    | WASHER, Lock . . . . .                                 | 4    |
| 13       | 193917H1 | ENCLOSURE, Hydraulic Manifold . . . . .                | 1    |
|          | S-1811   | SCREW, Cap . . . . .                                   | 4    |
|          | WL-18    | WASHER, Lock . . . . .                                 | 4    |
|          | H - 18   | NUT . . . . .  | 4    |
| 14       | 173806H1 | COVER, Hydraulic Manifold Enclosure . . . . .          | 1    |
|          | S-145    | SCREW, Cap . . . . .                                   | 4    |
|          | WL-14    | WASHER, Lock . . . . .                                 | 4    |
| 15       | 171825H2 | BOX, Battery . . . . .                                 | 1    |
|          | S-1812   | SCREW, Cap . . . . .                                   | 4    |
|          | WL-18    | WASHER, Lock . . . . .                                 | 4    |
|          | H - 18   | NUT . . . . .  | 4    |
|          |          | } Battery Box Mounting                                 |      |

(Continued on following page)

SHEET COWLING (Continued)

| ITEM NO. | PART NO.           | PART NAME   | Qty. |
|----------|--------------------|---|------|
| 16       | 215457H1           | FALSE BOTTOM, Battery Box (Replaces 171826H1) - S/N21FH-3003 & Up ..... | 1    |
|          | 171828H1           | COVER, Battery Box (I. H.) .....  | 1    |
|          | 177218H1           | COVER, Battery Box (Det. Diesel) .....                                  | 1    |
|          | 189590H1           | BOLT (I. H.) .....  | 1    |
|          | 173352H1           | BOLT (Det. Diesel) .....  | 1    |
|          | 174169H1           | NUT, Wing .....   | 1    |
|          | CP-36              | PIN, Cotter .....   | 1    |
|          | 171827H1           | RETAINER, Battery .....   | 1    |
|          | 188810H1           | PANEL, Instrument .....   | 4    |
|          | 127514H1           | GROMMET .....   | 4    |
|          | 168751H1           | SCREW .....   | 4    |
|          | E - 34             | NUT .....   | 1    |
|          | 204036H1           | PLATE, Formed .....   | 1    |
|          | S-167              | SCREW, Cap .....  | 1    |
| WL-16    | WASHER, Lock ..... | 1   |      |
| WF-16    | WASHER, Flat ..... | 1   |      |



OPERATOR'S COMPARTMENT

OPERATOR'S COMPARTMENT

| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
| 1        | 201670H1  | LADDER .....   | 1    |
| 2        | 203378H1  | RAIL, Ladder (Long) .....                            | 1    |
| 2        | 200690H1  | RAIL, Ladder (Short) .....                           | 1    |
|          | S-11010   | SCREW, Cap, Rail Mounting .....                      | 2    |
|          | WL-110    | WASHER, Lock .....                                   | 2    |
|          | S-1811    | SCREW, Cap .....                                     | 4    |
|          | WL-18     | WASHER, Lock .....                                   | 4    |
|          | H - 18    | NUT .....  | 4    |
|          | 189248H1  | SCREW, Cap .....                                     | 2    |
|          | WF-36     | WASHER .....   | 2    |
|          | WL-16     | WASHER, Lock .....                                   | 2    |
|          | H - 16    | NUT .....  | 2    |
|          | 176445H1  | BASE, Shock Free, Includes Items 3 thru 7 .....      | 1    |
|          | 177299H1  | KIT, Shock Absorber, Includes Items 5, 6 and 7 ..... | 1    |
| 3        | 177303H1  | SLIDES, Adjustable .....                             | 1    |
| 4        | 177298H1  | SUSPENSION, Shock Free .....                         | 1    |
| 5        | 177301H1  | SHOCK, Absorber .....                                | 1    |
| 6        | 177302H1  | BUSHING, Rubber .....                                | 4    |
| 7        | 177300H1  | HANDLE .....   | 1    |
| 8        | 160253H1  | SEAT (Replaced by 221362H2, Item 14 below) .....     | 1    |
|          | S-1510    | SCREW, Cap .....                                     | 4    |
|          | WF-15     | WASHER, Flat .....                                   | 4    |
|          | WL-15     | WASHER, Lock .....                                   | 4    |
|          | H - 15    | NUT .....  | 4    |
|          | WF-15     | WASHER, Flat .....                                   | 4    |
|          | H - 15    | NUT .....  | 4    |
| 9        | 187568H2  | FLOORBOARD, Front .....                              | 1    |
|          | S-1613    | SCREW, Cap .....                                     | 2    |
|          | S-168     | SCREW, Cap .....                                     | 5    |
|          | H - 16    | NUT .....  | 2    |
|          | WF-36     | WASHER, Flat .....                                   | 5    |
|          | WL-16     | WASHER, Lock .....                                   | 5    |
| 10       | 175326H1  | FLOORBOARD, Rear .....                               | 1    |
|          | 180107H1  | SCREW, Cap .....                                     | 2    |
|          | S-168     | SCREW, Cap .....                                     | 5    |
|          | WF-36     | WASHER, Flat .....                                   | 7    |
|          | WL-16     | WASHER, Lock .....                                   | 7    |
| 11       | 171616H1  | RUNNER, Floorboard .....                             | 1    |
| 12       | 185998H1  | DECK, Seat .....                                     | 1    |
| 13       | 185993H1  | SUPPORT, Seat .....                                  | 2    |
|          | S-159     | SCREW, Cap .....                                     | 8    |
|          | WL-15     | WASHER, Lock .....                                   | 8    |
|          | H - 15    | NUT .....  | 8    |
|          | 127440H1  | GROMMET, Floorboard .....                            | 1    |
| 14       | 221362H2  | SEAT (Includes the following) .....                  | 1    |
|          | 222190    | SEAT SHELL ASSEMBLY .....                            | 1    |
|          | 222191    | BACK REST ASSEMBLY .....                             | 1    |
|          | 222192    | CUSHION, Seat .....                                  | 1    |
| 15       | 875511C91 | CHAIN BOLT ASSEMBLY .....                            | 1    |
| 16       | 875512C1  | HINGE, L. H. Half .....                              | 1    |
| 16       | 875513C1  | HINGE, R. H. Half .....                              | 1    |
| 17       | 875514C91 | HINGE & PINS .....                                   | 2    |
|          | 875515C1  | SCREW, w/washer .....                                | 5    |
|          | 19397R1   | ROLL PINS .....                                      | 2    |
|          | 180122    | SCREW .....  | 2    |
|          | WF-36-P   | FLAT WASHER .....                                    | 2    |

} Ladder to Frame

} Ladder to Floorboard

} Seat to Base

On All S/N's  
21F-03146 & Up

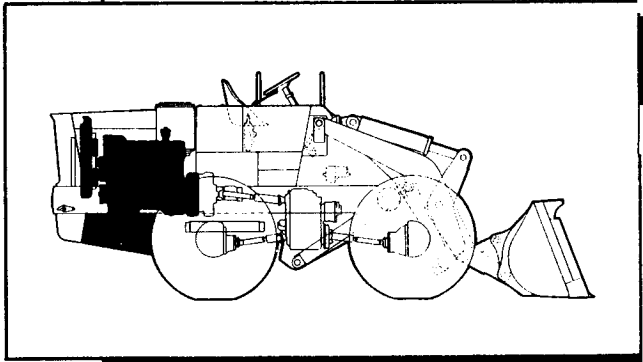
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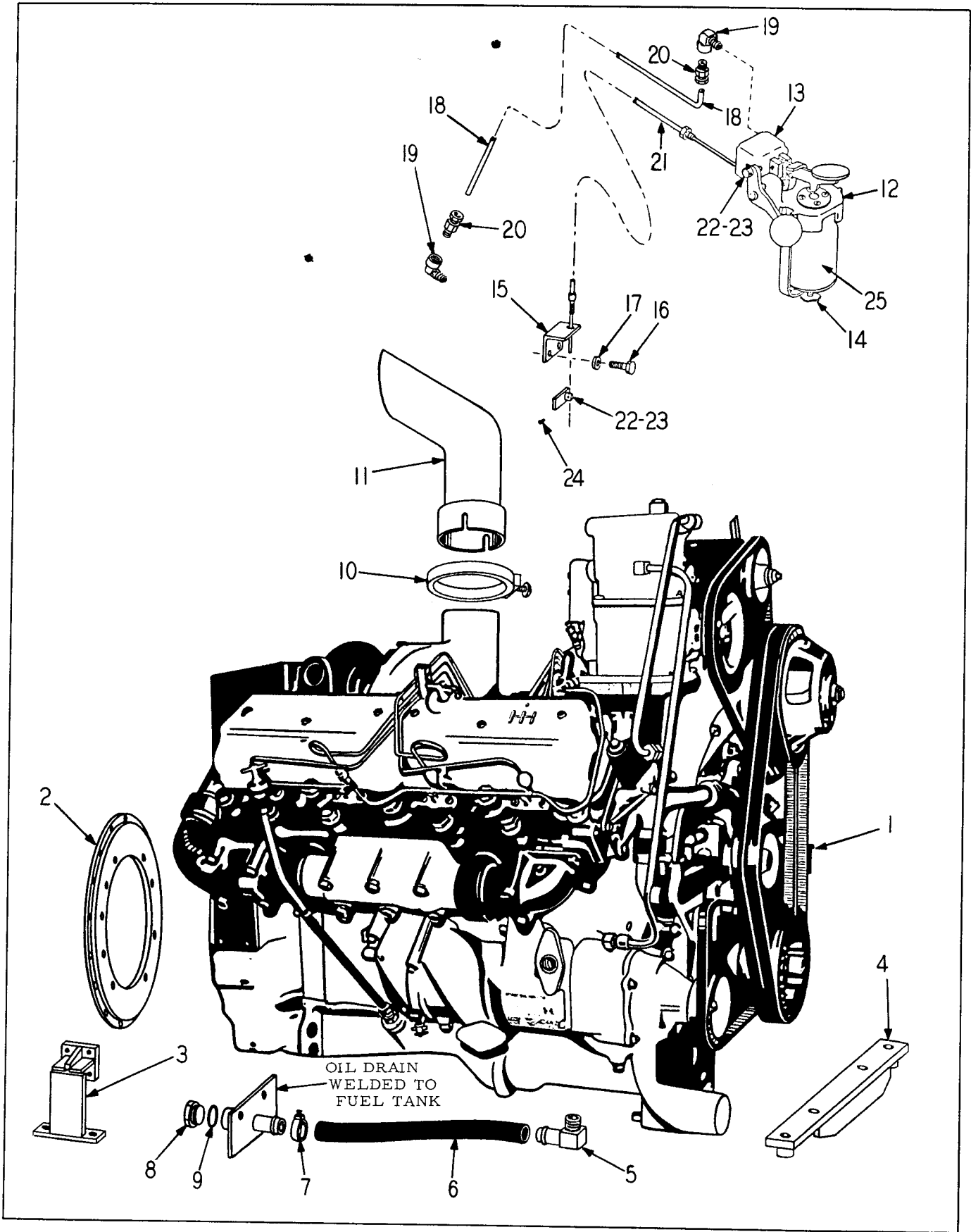
# SECTION 2

## ENGINE



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ENGINE & MOUNTING (IH ENGINE)

ENGINE & MOUNTING (IH ENGINE)

| ITEM NO.                     | PART NO. | PART NAME                            | Qty. |
|------------------------------|----------|--------------------------------------|------|
| 1                            | 204200H1 | ENGINE (See IH Engine Manual DT-429) | 1    |
| 2                            | 206168H1 | ADAPTER, Plate - Flywheel Housing    | 1    |
|                              | 206169H1 | SCREW, Counter Bore                  | 12   |
| 3                            | 205970H1 | MOUNT, Engine Flywheel Housing End   | 2    |
|                              | S-2814   | SCREW, Cap                           | 8    |
|                              | WL-18    | WASHER, Lock                         | 8    |
|                              | S-11220  | SCREW, Cap                           | 4    |
|                              | E-112    | NUT                                  | 4    |
| 4                            | 205966H1 | MOUNT, Engine Fan End                | 1    |
|                              | S-11236  | SCREW, Cap                           | 2    |
|                              | E-112    | NUT                                  | 2    |
|                              | S-11018  | SCREW, Cap                           | 2    |
|                              | E-110    | NUT                                  | 2    |
| LINE-ENGINE OIL DRAIN        |          |                                      |      |
| 5                            | 184695H1 | ELBOW                                | 1    |
|                              | 184697H1 | NUT, Special                         | 1    |
| 6                            | 174934H1 | HOSE (Replaces 207133H1)             | 1    |
| 7                            | 172818H1 | CLAMP                                | 2    |
| 8                            | 210-8    | PLUG                                 | 1    |
| 9                            | OR2-8    | "O" RING                             | 1    |
|                              | 213519H1 | WASHER, Thredseal                    | 1    |
|                              | 184698H1 | DRAIN, Oil                           | 1    |
| LINE-COMPRESSOR TO CONNECTOR |          |                                      |      |
|                              | 153526H1 | ELBOW, 90°                           | 1    |
|                              | 179017H1 | TUBING (Replaces 166746H1)           | 1    |
|                              | 157919H1 | CONNECTOR                            | 1    |
|                              | 102818H1 | CLAMP                                | 1    |
| LINE-GOVERNOR TO COMPRESSOR  |          |                                      |      |
|                              | 140367H1 | ELBOW, 90°                           | 1    |
|                              | 127618H1 | TUBING                               | 1    |
|                              | 177748H1 | CLAMP                                | 1    |
|                              | 140363H1 | ELBOW, 90°                           | 1    |
| EXHAUST GROUP                |          |                                      |      |
| 10                           | 177217H1 | CLAMP, Full Circle                   | 1    |
| 11                           | 204731H1 | TUBE, Exhaust                        | 1    |
| STARTING AID                 |          |                                      |      |
|                              | 197534H3 | BRACKET, Mounting                    | 1    |
|                              | S-166    | SCREW, Cap                           | 4    |
|                              | WL-16    | WASHER, Lock                         | 4    |
|                              | WF-16    | WASHER, Flat                         | 4    |
| 12                           | 165370H1 | INJECTOR ASSEMBLY, Air Shut & Ether  | 1    |
| 13                           | 165372H1 | SHIELD, Injector                     | 1    |

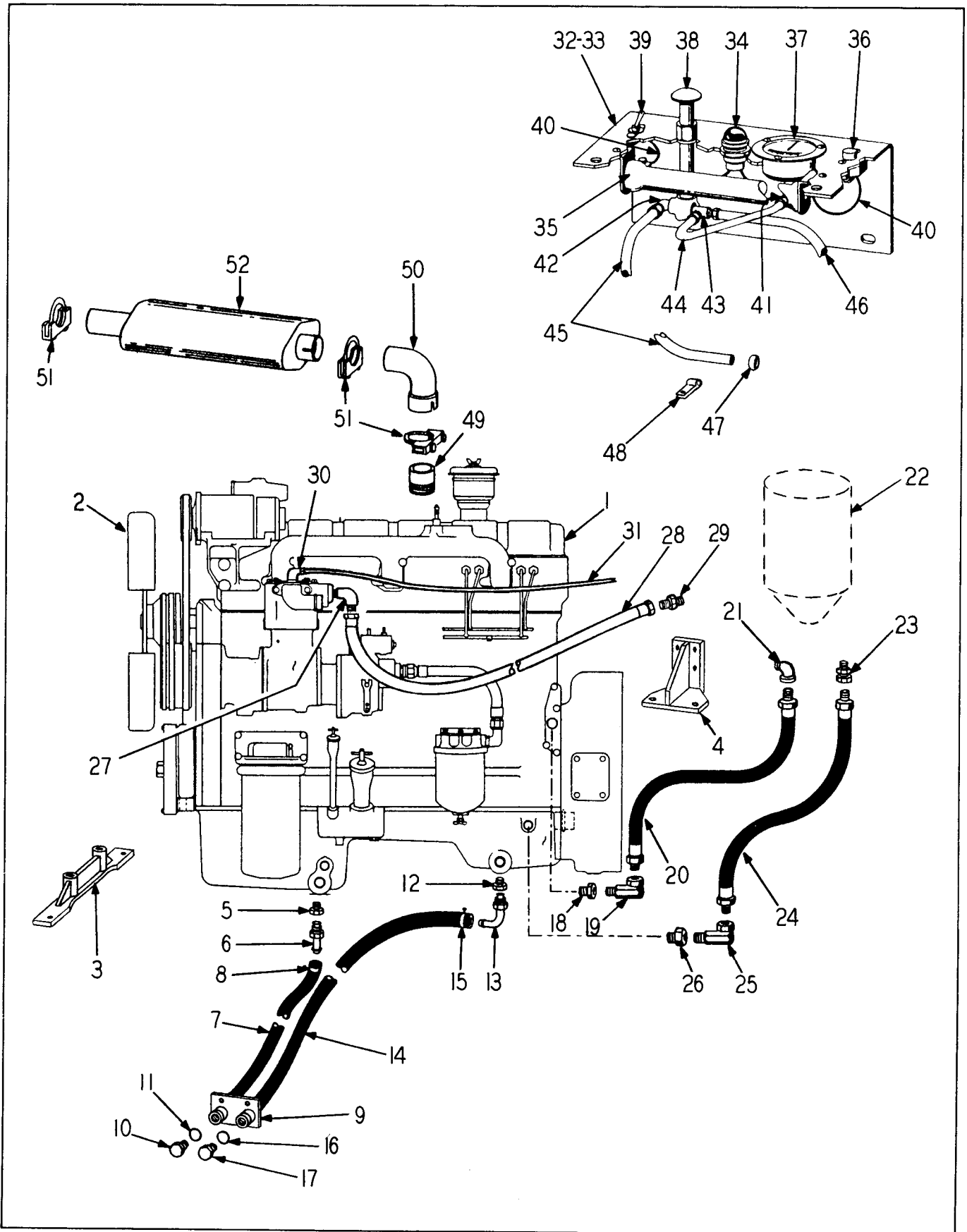
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ENGINE & MOUNTING (IH ENGINE) (Continued)

| ITEM NO.                 | PART NO. | PART NAME                                     | Qty. |
|--------------------------|----------|---|------|
| STARTING AID (Continued) |          |   |      |
| 14                       | 165373H1 | BAIL .....                                    | 1    |
|                          | S-265    | SCREW, Cap .....                              | 2    |
|                          | WL-16    | WASHER, Lock .....                            | 2    |
| 15                       | 205248H1 | BRACKET, Control Cable .....                  | 1    |
|                          | 205273H1 | CLIP .....                                    | 3    |
| 16                       | S-244    | SCREW, Cap .....                              | 3    |
| 17                       | WL-14    | WASHER, Lock .....                            | 3    |
|                          | H - 24   | NUT .....                                     | 3    |
| 18                       | 181951H1 | TUBE (Replaces 205249H1) .....                | 1    |
| 19                       | 172832H1 | ELBOW, 90° male (replaces 175775H1) .....     | 2    |
| 20                       | 165369H1 | CONNECTOR, Straight .....                     | 2    |
| 21                       | 221418H1 | CABLE, Air shut-off (replaces 205250H1) ..... | 1    |
| 22                       | 165375H1 | SWIVEL .....                                  | 2    |
| 23                       | 165376H1 | RETAINER .....                                | 2    |
| 24                       | 138457H1 | SCREW, Set .....                              | 2    |
| 25                       | 165377H1 | STARTING FLUID .....                          | 1    |
|                          | 200206H1 | GASKET, Starting Fluid .....                  | 1    |

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NOTES



ENGINE & MOUNTING (CUMMINS ENGINE)

ENGINE & MOUNTING (CUMMINS ENGINE)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 205946H2 | ENGINE (See Cummins Engine Manual C-160) (Replaces 205946H1)<br>S/N 21FC-3012, 3025, 3031 & Up ..... | 1    |
| 2        | 176486H1 | FAN .....  | 1    |
| 3        | 205947H1 | MOUNT, Engine Fan End .....  | 1    |
|          | S-11052  | SCREW, Cap .....   | 2    |
|          | E-110    | NUT .....  | 2    |
|          | S-11220  | SCREW, Cap .....   | 2    |
|          | E-112    | NUT .....  | 2    |
| 4        | 205953H1 | MOUNT, Engine Flywheel End .....   | 2    |
|          | S-2814   | SCREW, Cap .....   | 8    |
|          | WL-18    | WASHER, Lock .....   | 8    |
|          | S-11220  | SCREW, Cap .....   | 4    |
|          | E-112    | NUT .....  | 4    |
|          |          | LINE-ENGINE OIL DRAIN-REAR SUMP  |      |
| 5        | 127547H1 | BUSHING, Reducer .....   | 1    |
| 6        | 167971H1 | INSERT, Hose .....   | 1    |
| 7        | 184917H1 | HOSE .....   | 1    |
| 8        | 172818H1 | CLAMP .....  | 2    |
| 9        | 184605H1 | DRAIN, Oil .....   | 1    |
| 10       | 210-8    | PLUG .....   | 1    |
| 11       | OR2-8    | "O" RING .....   | 1    |
|          | S-168    | SCREW, Cap .....   | 2    |
|          | WL-16    | WASHER, Lock .....   | 2    |
|          | H - 16   | NUT .....  | 2    |
|          |          | LINE-ENGINE OIL DRAIN-FRONT SUMP   |      |
| 12       | 127547H1 | BUSHING, Reducer .....   | 1    |
| 13       | 172695H1 | INSERT, 90° Hose .....   | 1    |
| 14       | 177928H1 | HOSE .....   | 1    |
| 15       | 172818H1 | CLAMP .....  | 2    |
| 16       | OR2-8    | "O" RING .....   | 1    |
| 17       | 210-8    | PLUG .....   | 1    |
|          |          | LINE-ENGINE TO LUBE OIL FILTER   |      |
| 18       | 127539H1 | BUSHING, Reducer .....   | 1    |
| 19       | 122763H1 | ELBOW, 90° .....   | 1    |
| 20       | 183638H1 | HOSE, Engine to Filter .....   | 1    |
| 21       | 103488H1 | ELBOW, 90° St. ....  | 1    |
|          | 139017H1 | STRAP .....  | 2    |
| 22       | 183490H1 | FILTER, Lube Oil (See Cummins Engine Manual) .....   | 1    |
|          | S-155    | SCREW, Cap .....   | 4    |
|          | WL-15    | WASHER, Lock .....   | 4    |
|          |          | LINE-LUBE OIL FILTER TO ENGINE   |      |
| 23       | 122761H1 | ADAPTER, Union .....   | 1    |
| 24       | 183668H1 | HOSE, Filter to Engine .....   | 1    |
|          | 129700H1 | NIPPLE, Pipe .....   | 1    |
| 25       | 103401H1 | ELBOW, 90° .....   | 1    |
| 26       | 127538H1 | BUSHING, Reducer .....   | 1    |
|          |          | LINE-COMPRESSOR TO CONNECTOR   |      |
| 27       | 160997H1 | ELBOW, 90° Compressor Discharge .....  | 1    |
| 28       | 179017H1 | TUBING .....   | 1    |
| 29       | 157919H1 | CONNECTOR .....  | 1    |
|          | 102818H1 | CLAMP .....  | 2    |
|          |          | (Continued on following page)  |      |

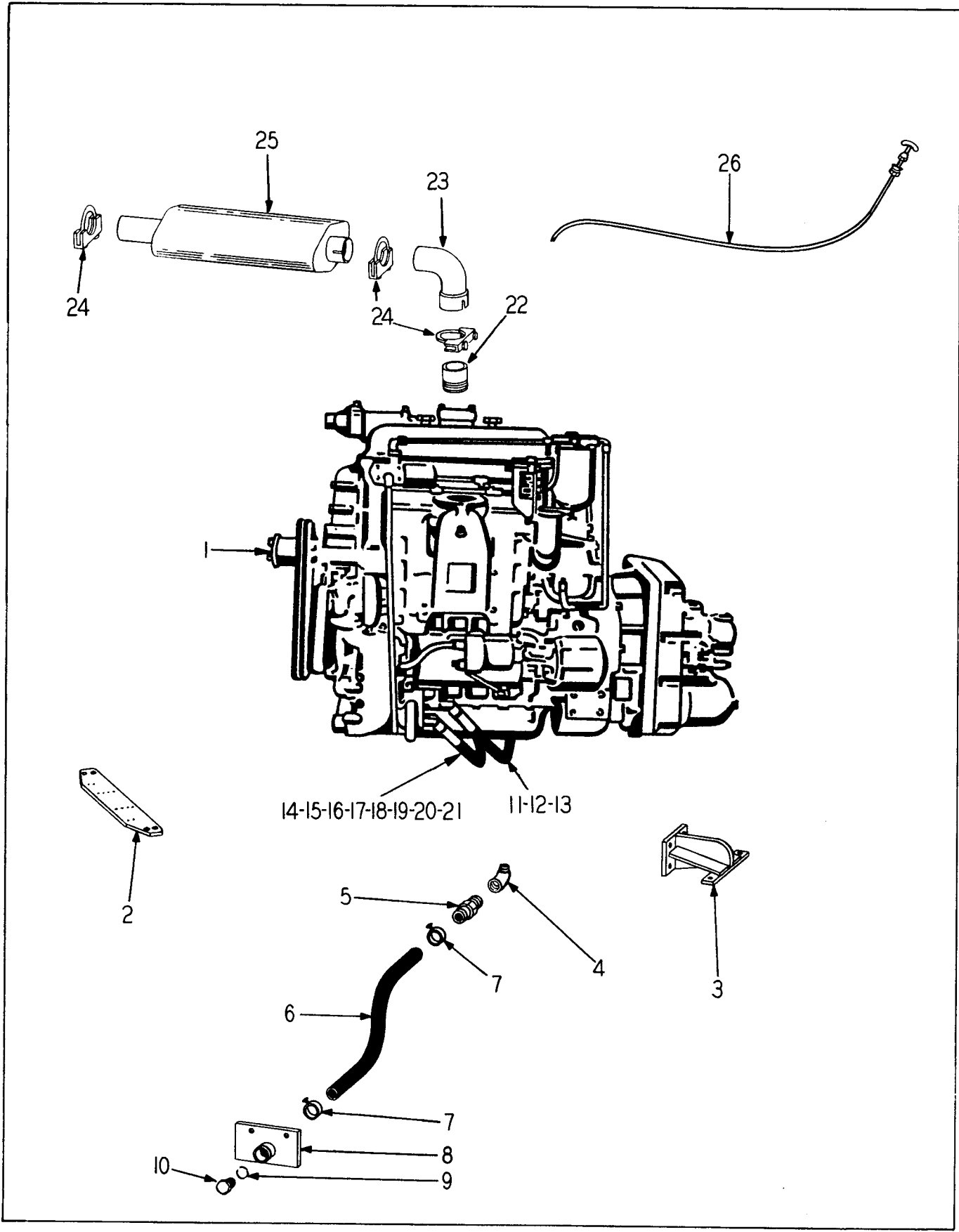
ENGINE & MOUNTING (CUMMINS ENGINE) (Continued)

| ITEM NO.                    | PART NO. | PART NAME  | Qty. |
|-----------------------------|----------|--|------|
| LINE-GOVERNOR TO COMPRESSOR |          |  |      |
| 30                          | 140367H1 | ELBOW, 90° .....   | 1    |
| 31                          | 127617H1 | TUBING .....   | 1    |
|                             | 177748H1 | CLAMP .....  | 1    |
|                             | 140363H1 | ELBOW, 90° .....   | 1    |
| ENGINE STOP & START         |          |  |      |
| 32                          |          | STARTING AID ASSEMBLY (See Cummins Engine Manual) .....    | 1    |
| 33                          | 175381H1 | BRACKET, Starting Aid .....                                | 1    |
|                             | S-166    | SCREW, Cap .....   | 4    |
|                             | WL-16    | WASHER, Lock .....   | 4    |
|                             | WF-16    | WASHER, Flat .....   | 4    |
|                             | H - 16   | NUT .....  | 4    |
| 34                          |          | LIGHT, Indicator (See Cummins Engine Manual) .....         | 1    |
| 35                          |          | RESISTOR, Preheater (See Cummins Engine Manual) .....      | 1    |
|                             | 168456H1 | SCREW .....  | 2    |
|                             | WL-14    | WASHER, Lock .....   | 2    |
|                             | H - 24   | NUT .....  | 2    |
| 36                          |          | CIRCUIT BREAKER (See Cummins Engine Manual) .....          | 1    |
|                             | 140746H1 | SCREW, Circuit Breaker Mounting .....                      | 2    |
| 37                          |          | GAUGE, Fuel Oil Pressure (See Cummins Engine Manual) ..... | 1    |
|                             | 156438H1 | SCREW .....  | 3    |
|                             | 104469H1 | WASHER, Lock .....   | 3    |
|                             | 104467H1 | NUT .....  | 3    |
| 38                          |          | PRIMER, Hand (See Cummins Engine Manual) .....             | 1    |
| 39                          |          | SWITCH, Off-On Toggle (See Cummins Engine Manual) .....    | 1    |
| 40                          | 134319H1 | WIRE .....   | 2    |
| 41                          | 182866H1 | ELBOW, At Gauge .....                                      | 1    |
| 42                          | 175775H1 | ELBOW, At Primer .....                                     | 1    |
| 43                          | 182594H1 | TEE .....  | 1    |
| 44                          | 182656H1 | TUBING, Primer to Pressure Gauge .....                     | 1    |
| 45                          | 179938H1 | TUBING, Primer to Nozzle Engine .....                      | 1    |
| 46                          | 175934H1 | TUBING, Filter Fuel Line to Primer .....                   | 1    |
| 47                          | 180080H1 | SLEEVE .....   | 2    |
|                             | 175775H1 | ELBOW, At Engine .....                                     | 2    |
| 48                          | 179983H1 | CLIP .....   | 1    |
| EXHAUST GROUP               |          |  |      |
| 49                          | 172147H1 | STACK, Exhaust .....                                       | 1    |
| 50                          | 176218H1 | ELBOW .....  | 1    |
| 51                          | 127487H1 | CLAMP .....  | 3    |
| 52                          | 176217H2 | MUFFLER .....  | 1    |



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NOTES



ENGINE & MOUNTING (DETROIT DIESEL ENGINE)

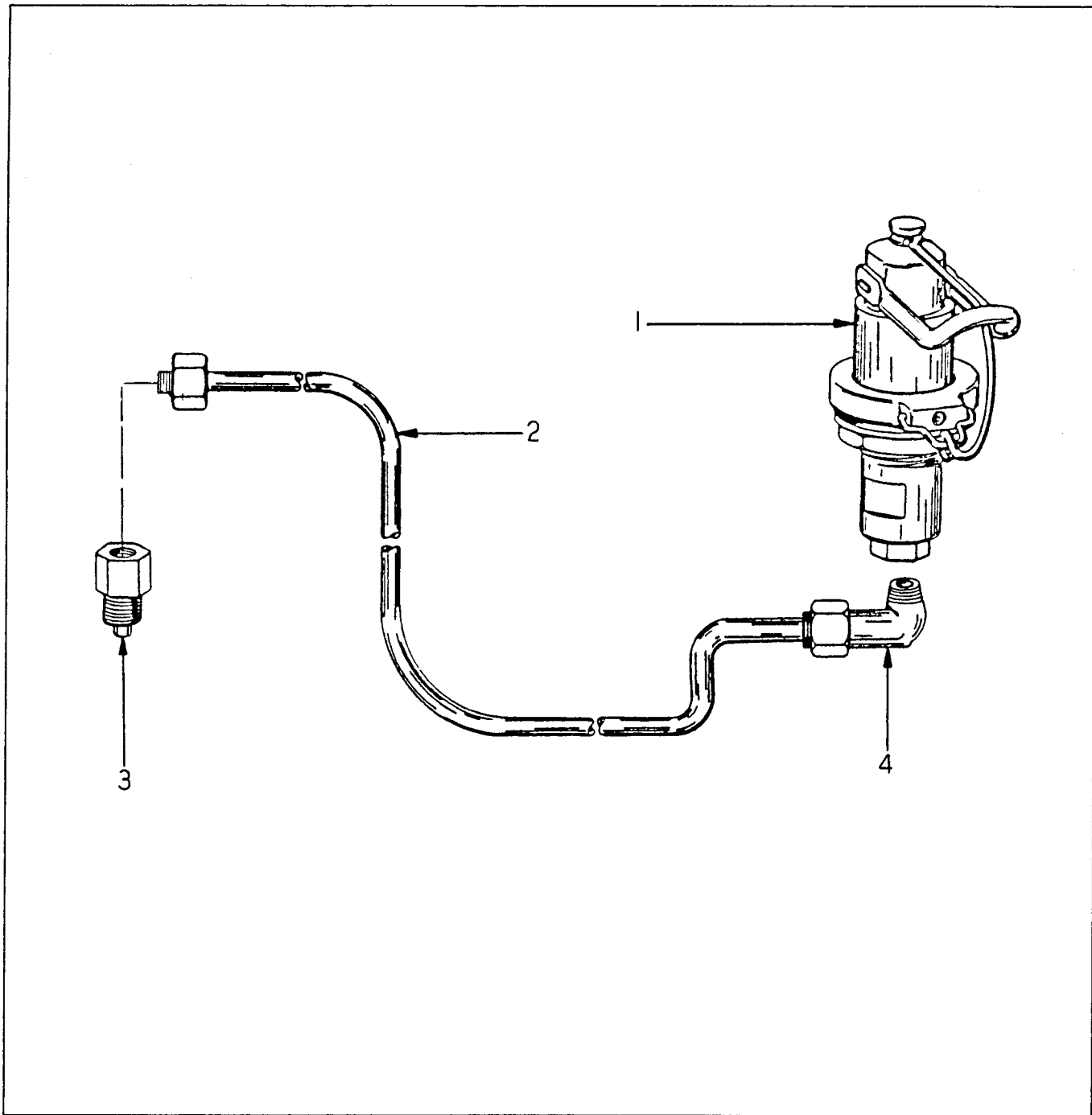
ENGINE & MOUNTING (DETROIT DIESEL ENGINE) (Continued)

| ITEM NO.                       | PART NO. | PART NAME   | Qty. |
|--------------------------------|----------|---|------|
| 1                              | 205524H1 | ENGINE (G.M. 4-71)                                  | 1    |
| 2                              | 205957H1 | MOUNT, Engine Fan End                               | 1    |
|                                | S-11220  | SCREW, Cap  | 2    |
|                                | E-112    | NUT   | 2    |
|                                | S-11032  | SCREW, Cap  | 2    |
|                                | E-110    | NUT   | 2    |
| 3                              | 205961H1 | MOUNT, Engine Flywheel End                          | 2    |
|                                | S-2814   | SCREW, Cap  | 8    |
|                                | WL-18    | WASHER, Lock  | 8    |
|                                | S-11220  | SCREW, Cap  | 4    |
|                                | E-112    | NUT   | 4    |
| LINE-ENGINE OIL DRAIN          |          |   |      |
| 4                              | 103490H1 | ELBOW, 90° St.                                      | 1    |
| 5                              | 167971H1 | INSERT, Hose  | 1    |
| 6                              | 177928H1 | HOSE  | 1    |
| 7                              | 172818H1 | CLAMP   | 2    |
| 8                              | 184698H1 | DRAIN, Oil  | 1    |
| 9                              | OR2-8    | "O" RING  | 1    |
| 10                             | 210-8    | PLUG  | 1    |
|                                | S-168    | SCREW, Cap  | 2    |
|                                | WL-16    | WASHER, Lock  | 2    |
|                                | H - 16   | NUT   | 2    |
| LINE-ENGINE TO LUBE OIL FILTER |          |   |      |
| 11                             | HA-790   | ADAPTER, Straight                                   | 1    |
| 12                             | HA-991   | HOSE  | 1    |
| 13                             | 103490H1 | ELBOW, 90°  | 1    |
| LINE-LUBE OIL FILTER TO ENGINE |          |   |      |
| 14                             | 103490H1 | ELBOW, 90°  | 1    |
| 15                             | 103490H1 | ELBOW, 90° (Replaces 103499H1)                      | 1    |
| 16                             | 106417H1 | HOSE (Replaces 104349H1)                            | 1    |
| 17                             | HA-790   | ADAPTER, Straight                                   | 1    |
| 18                             | 180047H1 | FILTER, Lube Oil (Furnished with Engine)            | 1    |
| 19                             | 213197H1 | PLATE, Lube Oil Filter Mounting (Replaces 154071H1) | 1    |
|                                | S-1610   | SCREW, Cap  | 4    |
|                                | WL-16    | WASHER, Lock  | 4    |
|                                | H - 16   | NUT   | 4    |
|                                | S-276    | SCREW, Cap  | 2    |
|                                | WL-17    | WASHER, Lock  | 2    |
| 20                             | 180519H1 | ELBOW, Water Inlet                                  | 1    |
| 21                             | 197508H1 | GASKET  | 1    |
| LINE-COMPRESSOR TO CONNECTOR   |          |   |      |
|                                | 180127H1 | ELBOW   | 1    |
|                                | 215080H1 | TUBE, Formed (Replaces 182407H1)                    | 1    |
|                                | 157919H1 | CONNECTOR   | 1    |
|                                | 102818H1 | CLAMP   | 1    |
| LINE-GOVERNOR TO COMPRESSOR    |          |   |      |
|                                | 140367H1 | ELBOW, 90°  | 1    |
|                                | 132963H1 | TUBING  | 1    |
|                                | 140363H1 | ELBOW, 90°  | 1    |
|                                | 177748H1 | CLAMP   | 1    |

(Continued on following page)

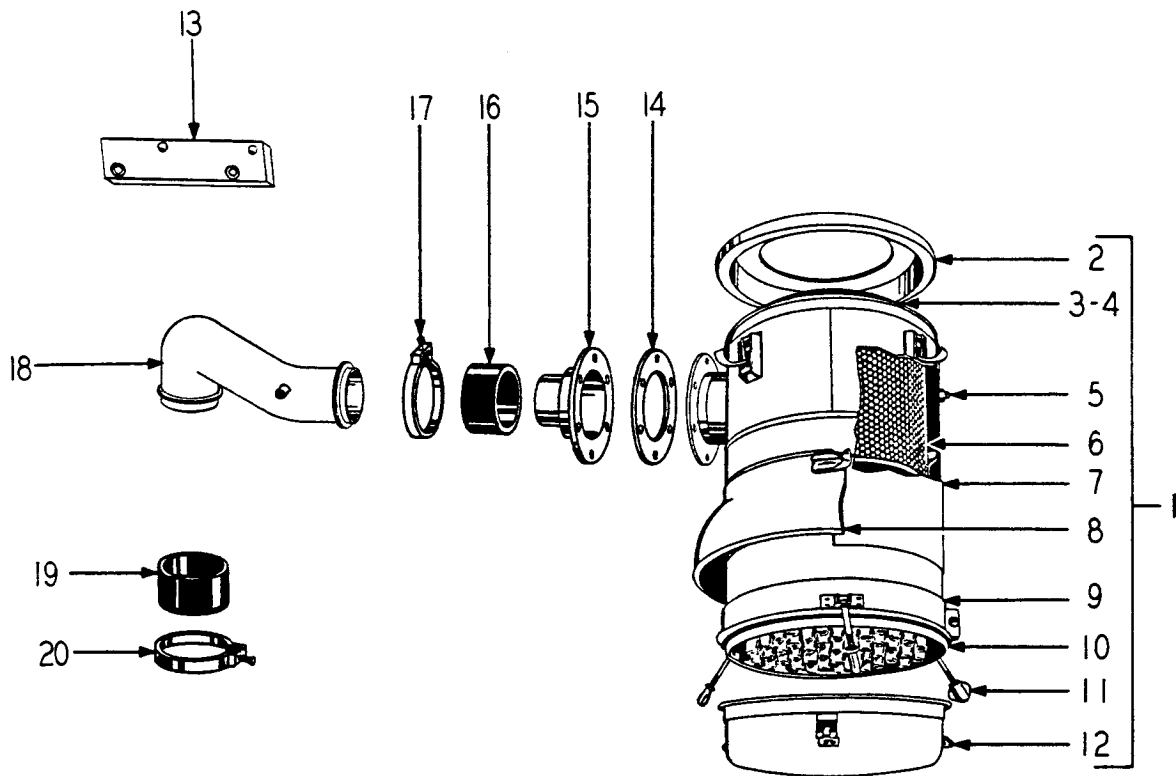
ENGINE & MOUNTING (DETROIT DIESEL ENGINE) (Continued)

| ITEM NO.                  | PART NO. | PART NAME             | Qty. |
|---------------------------|----------|-----------------------|------|
| EXHAUST GROUP             |          |                       |      |
| 22                        | 178963H1 | STACK, Exhaust .....  | 1    |
| 23                        | 178937H1 | ELBOW, Exhaust .....  | 1    |
| 24                        | 127487H1 | CLAMP .....           | 3    |
| 25                        | 176217H2 | MUFFLER .....         | 1    |
| ENGINE START & STOP GROUP |          |                       |      |
| 26                        | 161915H1 | CABLE, Flexible ..... | 2    |
|                           | S-146    | SCREW, Cap .....      | 1    |
|                           | H - 14   | NUT .....             | 1    |
|                           | WL-14    | WASHER, Lock .....    | 1    |
|                           | WF-14    | WASHER, Flat .....    | 1    |
|                           | 182868H1 | BRACKET .....         | 1    |
|                           | 163501H1 | CLAMP .....           | 2    |
|                           | 117384H1 | CLAMP .....           | 1    |
|                           | 187598H1 | FITTING .....         | 1    |
|                           | 192868H1 | BUSHING .....         | 1    |



STARTING AID (DETROIT DIESEL ENGINE)

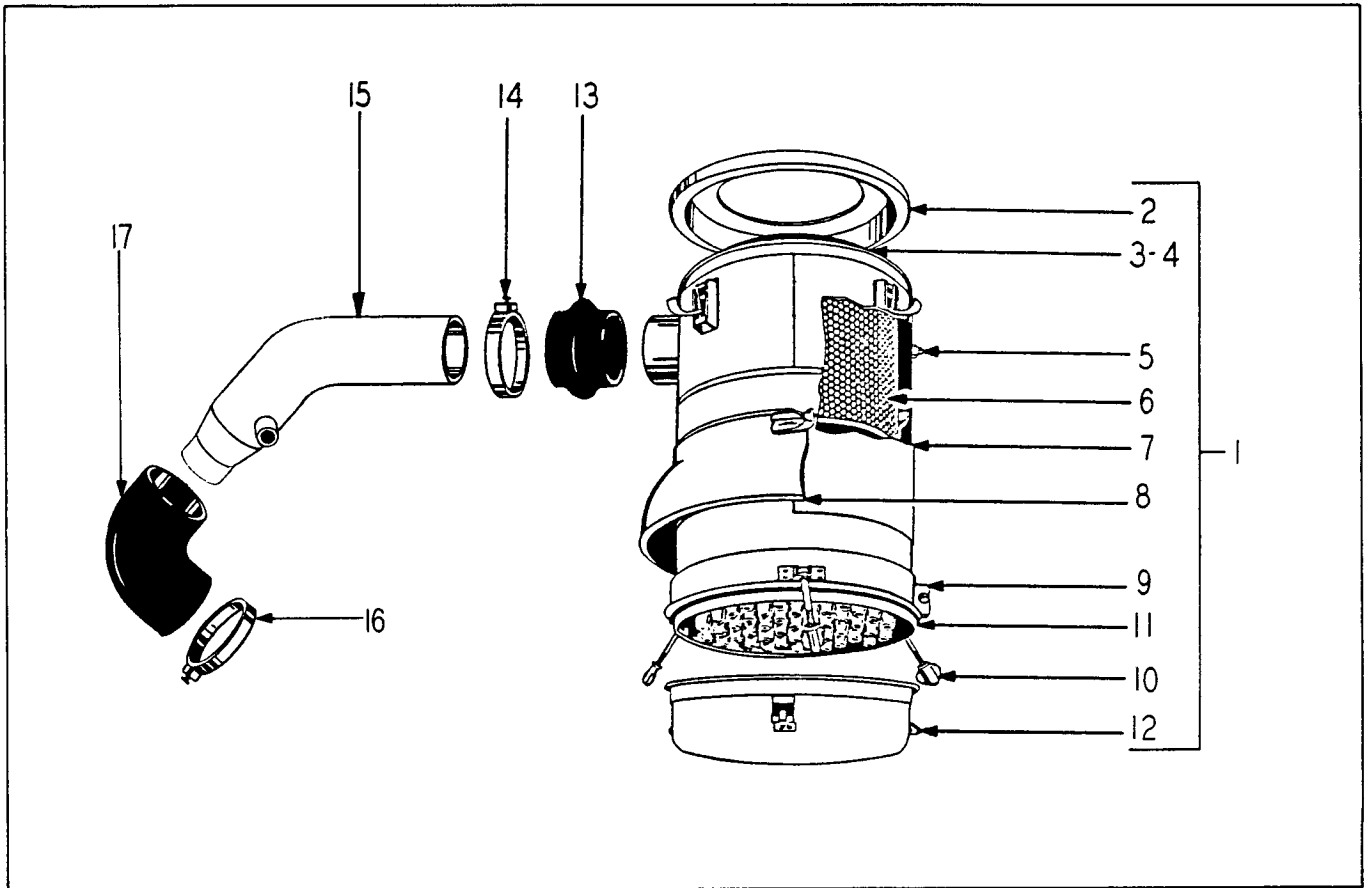
| ITEM NO. | PART NO. | PART NAME                      | Qty. |
|----------|----------|--------------------------------|------|
| 1        | 121816H1 | PRIMER, Pressure .....         | 1    |
| 2        | 875504C1 | TUBE (Replaces 184346H1) ..... | 1    |
| 3        | 122811H1 | NOZZLE, Manifold .....         | 1    |
| 4        | 172832H1 | ELBOW (Replaces 175775H1)..... | 1    |
|          | 135117H1 | CLAMP .....                    | 1    |
|          | 163501H1 | CLAMP .....                    | 1    |
|          | 160980H1 | CLAMP .....                    | 1    |



AIR CLEANER (DETROIT DIESEL ENGINE)

AIR CLEANER (DETROIT DIESEL ENGINE)

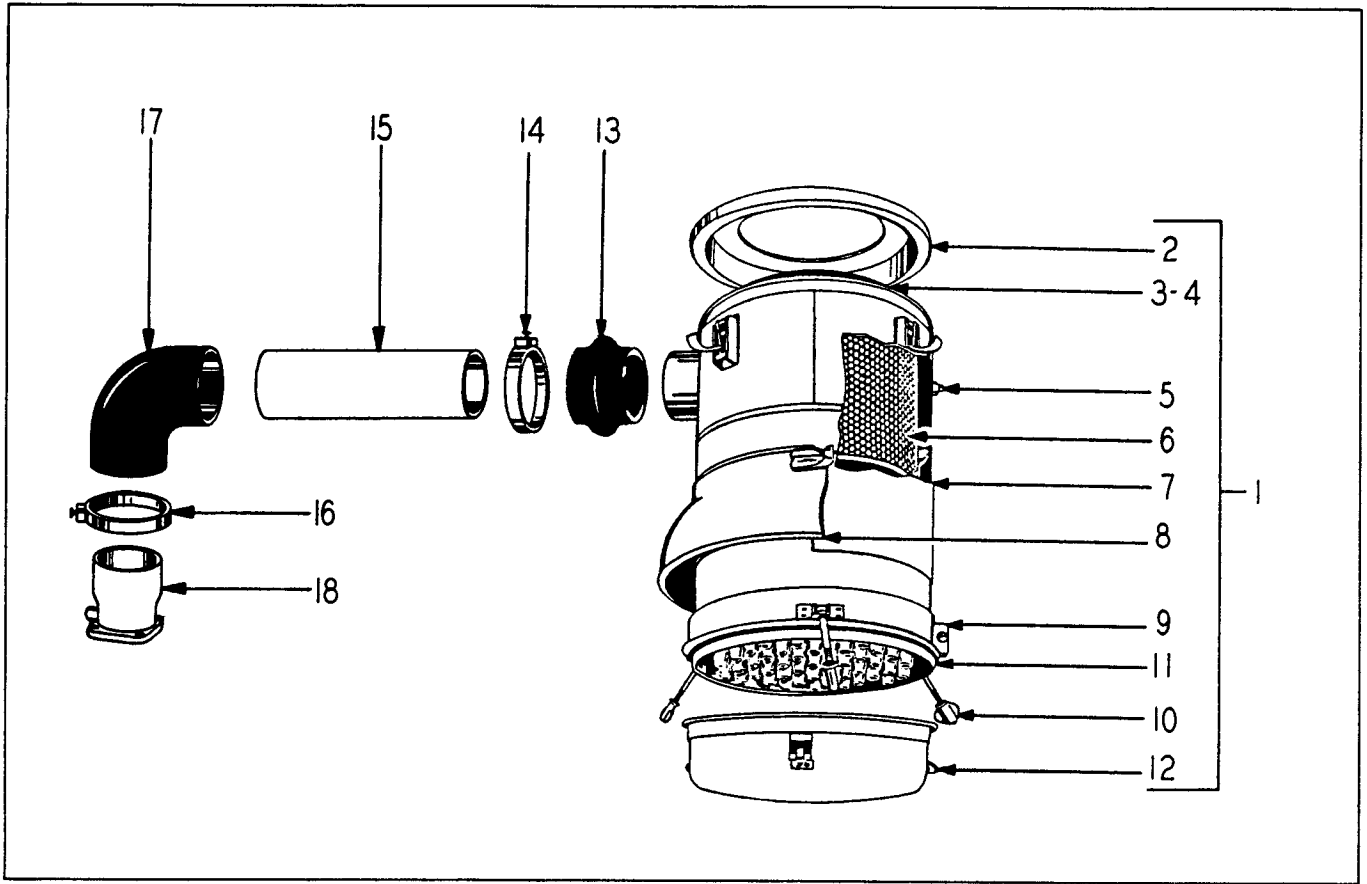
| ITEM NO.                    | PART NO. | PART NAME                                     | Qty. |
|-----------------------------|----------|---|------|
| 1                           | 152540H1 | CLEANER, Air (Includes Items 2 thru 12) ..... | 1    |
|                             | 152539H1 | BAND, Mounting .....                          | 2    |
|                             | S-166    | SCREW, Cap, Mounting Band to Bracket .....    | 4    |
| 2                           | 155262H1 | COVER ASSEMBLY (Includes Item 3) .....        | 1    |
| 3                           | 155263H1 | GASKET .....                                  | 1    |
| 4                           | 155208H1 | BOLT & GASKET ASSEMBLY .....                  | 1    |
| 5                           | P - 12   | PLUG, Pipe .....                              | 1    |
| 6                           | 155264H2 | ELEMENT .....                                 | 1    |
| 7                           | 155265H1 | BODY ASSEMBLY .....                           | 1    |
| 8                           | 155266H1 | SHROUD & SHIELD ASSEMBLY .....                | 1    |
| 9                           | 155267H1 | BAND ASSEMBLY .....                           | 1    |
| 10                          | 155270H1 | GASKET .....                                  | 1    |
| 11                          | 155214H1 | BOLT & NUT .....                              | 3    |
| 12                          | 155268H1 | CUP ASSEMBLY .....                            | 1    |
|                             | 193425H1 | COVER ASSEMBLY, Inner .....                   | 1    |
|                             | 193426H1 | GASKET, Inner Cover .....                     | 1    |
| 13                          | 178918H1 | BRACKET, Air Cleaner .....                    | 2    |
|                             | S-169    | SCREW, Cap .....                              | 4    |
|                             | WF-16    | WASHER, Flat .....                            | 8    |
|                             | 181338H1 | BAR, Spacer .....                             | 2    |
|                             | S-1610   | SCREW, Cap .....                              | 4    |
|                             | H - 16   | NUT .....                                     | 4    |
|                             | WL-16    | WASHER, Lock .....                            | 4    |
| 14                          | 152944H1 | ADAPTER .....                                 | 1    |
| 15                          | 152945H1 | GASKET .....                                  | 1    |
|                             | S-166    | SCREW, Cap .....                              | 6    |
|                             | WL-16    | WASHER, Lock .....                            | 6    |
|                             | H - 16   | NUT .....                                     | 6    |
| 16                          | 150320H1 | HOSE .....                                    | 1    |
| 17                          | 152730H1 | CLAMP .....                                   | 1    |
| 18                          | 214972H1 | TUBE (Replaces 178920H1) .....                | 1    |
| 19                          | 150320H1 | HOSE .....                                    | 1    |
| 20                          | 152730H1 | CLAMP .....                                   | 2    |
| AIR COMPRESSOR LINE TO TUBE |          |   |      |
|                             | 140883H1 | HOSE (Replaces 136307H1) .....                | 1    |
|                             | 172818H1 | CLAMP .....                                   | 2    |
|                             | 153609H1 | SUCTION FITTING .....                         | 1    |
|                             | 153610H1 | GASKET .....                                  | 1    |



AIR CLEANER GROUP (IH ENGINE)

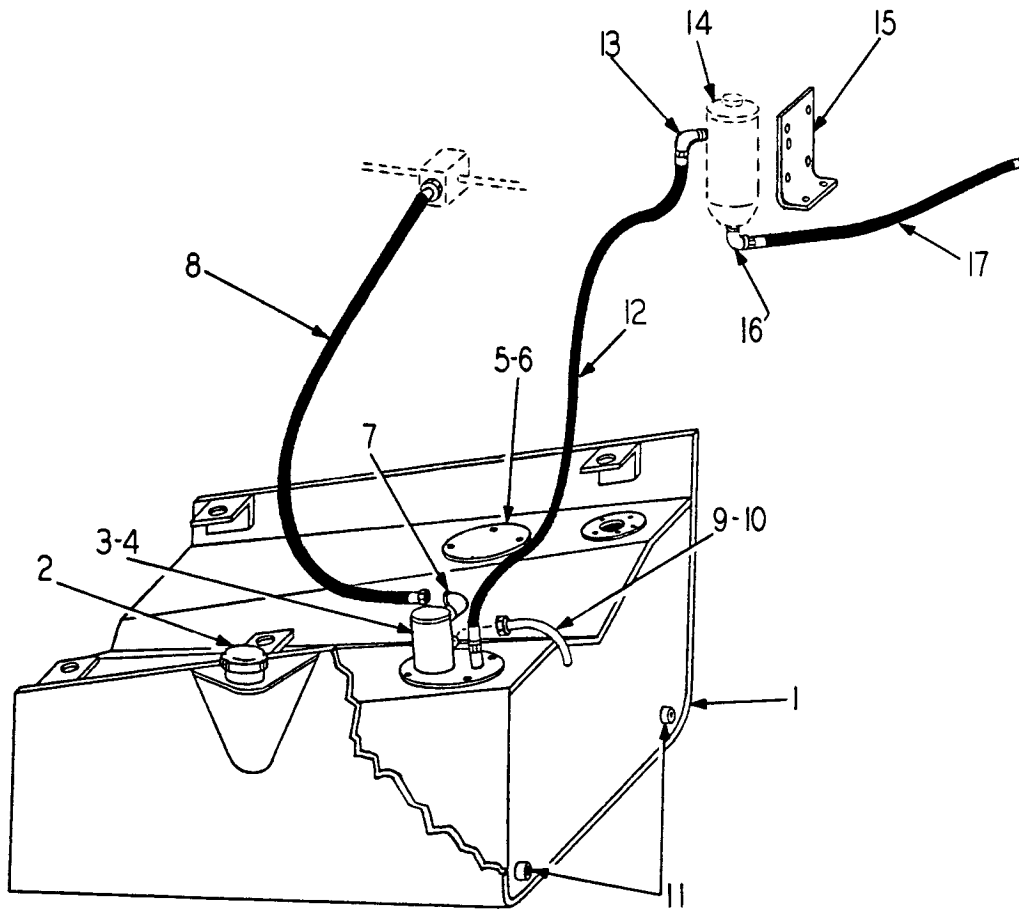
| ITEM NO.                    | PART NO. | PART NAME                              | Qty. |
|-----------------------------|----------|--|------|
| 1                           | 152776H1 | AIR CLEANER (Includes Items 2 thru 12) | 1    |
| 2                           | 155206H1 | COVER ASSEMBLY                         | 1    |
| 3                           | 155207H1 | GASKET                                 | 1    |
| 4                           | 155208H1 | BOLT & GASKET ASSEMBLY                 | 1    |
| 5                           | P - 12   | PLUG, Pipe                             | 1    |
| 6                           | 155209H2 | ELEMENT                                | 1    |
| 7                           | 155210H1 | BODY ASSEMBLY                          | 1    |
| 8                           | 155211H1 | SHROUD & SHIELD ASSEMBLY               | 1    |
| 9                           | 155212H1 | BAND ASSEMBLY                          | 3    |
| 10                          | 155214H1 | BOLT ASSEMBLY                          | 1    |
| 11                          | 155215H1 | GASKET                                 | 1    |
| 12                          | 155213H1 | CUP ASSEMBLY                           | 1    |
|                             | 145720H1 | BAND                                   | 2    |
|                             | 181338H1 | BAR, Spacer                            | 2    |
|                             | S-1610   | SCREW, Cap                             | 4    |
|                             | H - 16   | NUT                                    | 4    |
|                             | WL-16    | WASHER, Lock                           | 4    |
| 13                          | 176034H1 | HOSE, Hump - Air Cleaner to Tube       | 1    |
| 14                          | 152730H1 | CLAMP, Hose to Tube                    | 2    |
| 15                          | 204965H1 | TUBE, Cleaner to Elbow                 | 1    |
| 16                          | 156385H1 | CLAMP, Elbow to Tube                   | 2    |
| 17                          | 187612H1 | ELBOW, Flex                            | 1    |
|                             | 205113H1 | "U" BOLT, Tube Support                 | 1    |
|                             | H - 18   | NUT                                    | 2    |
|                             | WL-18    | WASHER, Lock                           | 2    |
| AIR COMPRESSOR-LINE TO TUBE |          |  |      |
|                             | 205121H1 | HOSE                                   | 1    |
|                             | 161178H1 | CLAMP                                  | 4    |





AIR CLEANER GROUP (CUMMINS ENGINE)

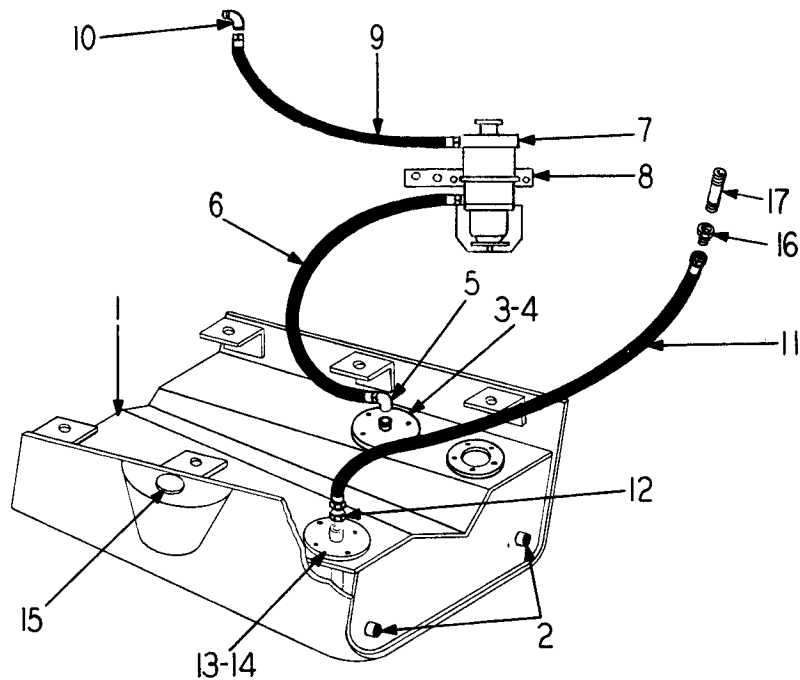
| ITEM NO. | PART NO. | PART NAME                               | Qty. |
|----------|----------|---|------|
| 1        | 152776H1 | CLEANER, Air (Includes Items 2 thru 12) | 1    |
| 2        | 155206H1 | COVER ASSEMBLY                          | 1    |
| 3        | 155207H1 | GASKET                                  | 1    |
| 4        | 155208H1 | BOLT & GASKET ASSEMBLY                  | 1    |
| 5        | P - 12   | PLUG, Pipe                              | 1    |
| 6        | 155209H2 | ELEMENT                                 | 1    |
| 7        | 155210H1 | BODY ASSEMBLY                           | 1    |
| 8        | 155211H1 | SHROUD & SHIELD ASSEMBLY                | 1    |
| 9        | 155212H1 | BAND ASSEMBLY                           | 3    |
| 10       | 155214H1 | BOLT ASSEMBLY                           | 1    |
| 11       | 155215H1 | GASKET                                  | 1    |
| 12       | 155213H1 | CUP ASSEMBLY                            | 1    |
|          | 145720H1 | BAND                                    | 2    |
|          | 181338H1 | BAR, Spacer                             | 2    |
|          | S-1610   | SCREW, Cap                              | 4    |
|          | H - 16   | NUT                                     | 4    |
|          | WL-16    | WASHER, Lock                            | 4    |
| 13       | 176034H1 | HOSE, Hump - Air Cleaner to Tube        | 1    |
| 14       | 152730H1 | CLAMP, Hose to Tube                     | 2    |
| 15       | 171736H1 | TUBE, Cleaner to Elbow                  | 1    |
| 16       | 152730H1 | CLAMP, Elbow to Tube                    | 2    |
| 17       | 150751H1 | ELBOW, Flex                             | 1    |
| 18       | 176033H2 | ADAPTER, On Engine                      | 1    |
|          | S-2610   | SCREW, Cap                              | 4    |
|          | WL-16    | WASHER, Lock                            | 4    |
|          |          | } Adapter Mounting                      |      |
|          |          | AIR COMPRESSOR LINE TO TUBE             |      |
|          | 176031H1 | HOSE                                    | 1    |
|          | 176032H1 | TUBE, Air Intake                        | 1    |



FUEL TANK (CUMMINS ENGINE)

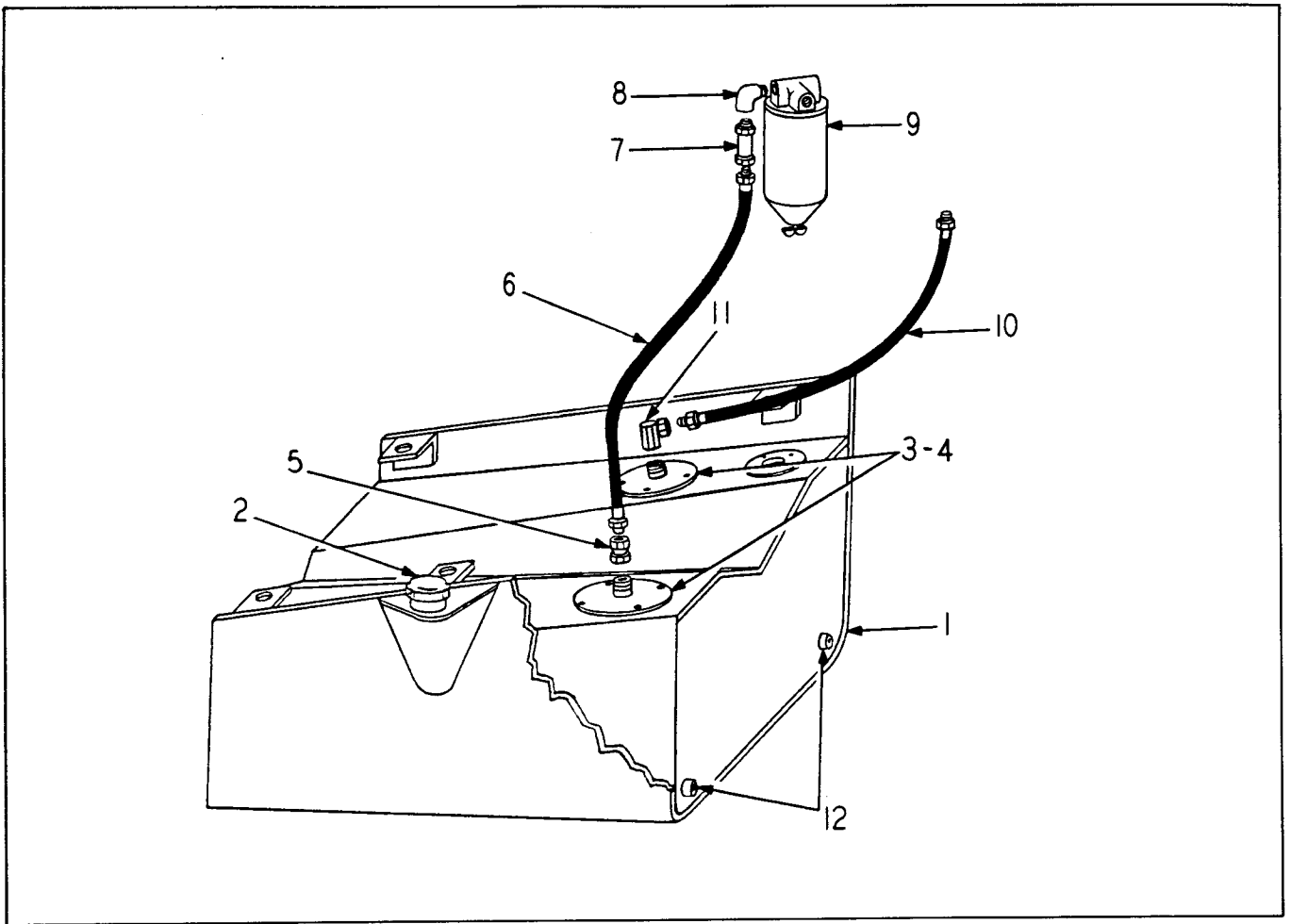
FUEL TANK & LINES (CUMMINS ENGINE)

| ITEM NO.                 | PART NO. | PART NAME  | Qty. |
|--------------------------|----------|--|------|
| 1                        | 183635H1 | TANK, Fuel .....   | 1    |
|                          | S-11016  | SCREW, Cap .....   | 6    |
|                          | WL-110   | WASHER, Lock .....   | 6    |
|                          | H-110    | NUT .....  | 6    |
| 2                        | HA-1279  | CAP, Fuel Tank .....   | 1    |
| 3                        | 183636H1 | TUBE, Outlet .....   | 1    |
| 4                        | 155932H1 | GASKET .....   | 1    |
|                          | S-168    | SCREW, Cap .....   | 4    |
|                          | WL-16    | WASHER, Lock .....   | 4    |
| 5                        | 125751H1 | COVER .....  | 1    |
| 6                        | 155932H1 | GASKET .....   | 1    |
|                          | S-168    | SCREW, Cap .....   | 4    |
|                          | WL-16    | WASHER, Lock .....   | 4    |
| LINES-FUEL DRAIN         |          |  |      |
| 7                        | 103488H1 | ELBOW, St. ....  | 1    |
| 8                        | 171745H1 | HOSE, Injector Return .....  | 1    |
| 9                        | 145325H1 | TUBE, Tank Vent & Over .....   | 1    |
| 10                       | HS-972   | CONNECTOR .....  | 1    |
| 11                       | P - 18   | PLUG, Pipe, Drain Ports .....  | 2    |
|                          | 116983H1 | CLAMP .....  | 1    |
|                          | 102818H1 | CLAMP .....  | 1    |
| LINE-TANK TO FILTER      |          |  |      |
| 12                       | 217680H1 | HOSE (Replaces 183165H1) .....   | 1    |
| 13                       | 291-10   | ELBOW (Replaces 183164H1) - S/N 21FC-3010 & Up .....                         | 1    |
| 14                       |          | FILTER, Fuel (See Cummins Engine Manual) .....                               | 1    |
| 15                       | 217682H1 | BRACKET, Filter Mounting (Replaces 213114H1) .....                           | 1    |
|                          | S-168    | SCREW, Cap (Replaces S-156) .....  | 3    |
|                          | WL-16    | WASHER, Lock (Replaces WL-15) .....  | 3    |
|                          | H - 16   | NUT (Replaces H-15) .....  | 3    |
|                          | OR2-10   | "O" RING .....   | 1    |
| LINE-FILTER TO FUEL PUMP |          |  |      |
| 16                       | 291-10   | ELBOW (Replaces 103489H1 Elbow & 126559H1 Nipple) - S/N 21FC-3010 & Up ..... | 1    |
| 17                       | 178789H1 | HOSE (Replaces 183165H1) .....   | 1    |
|                          | 217681H1 | ADAPTER, Hose to Engine .....  | 1    |
|                          | OR2-10   | "O" RING .....   | 1    |



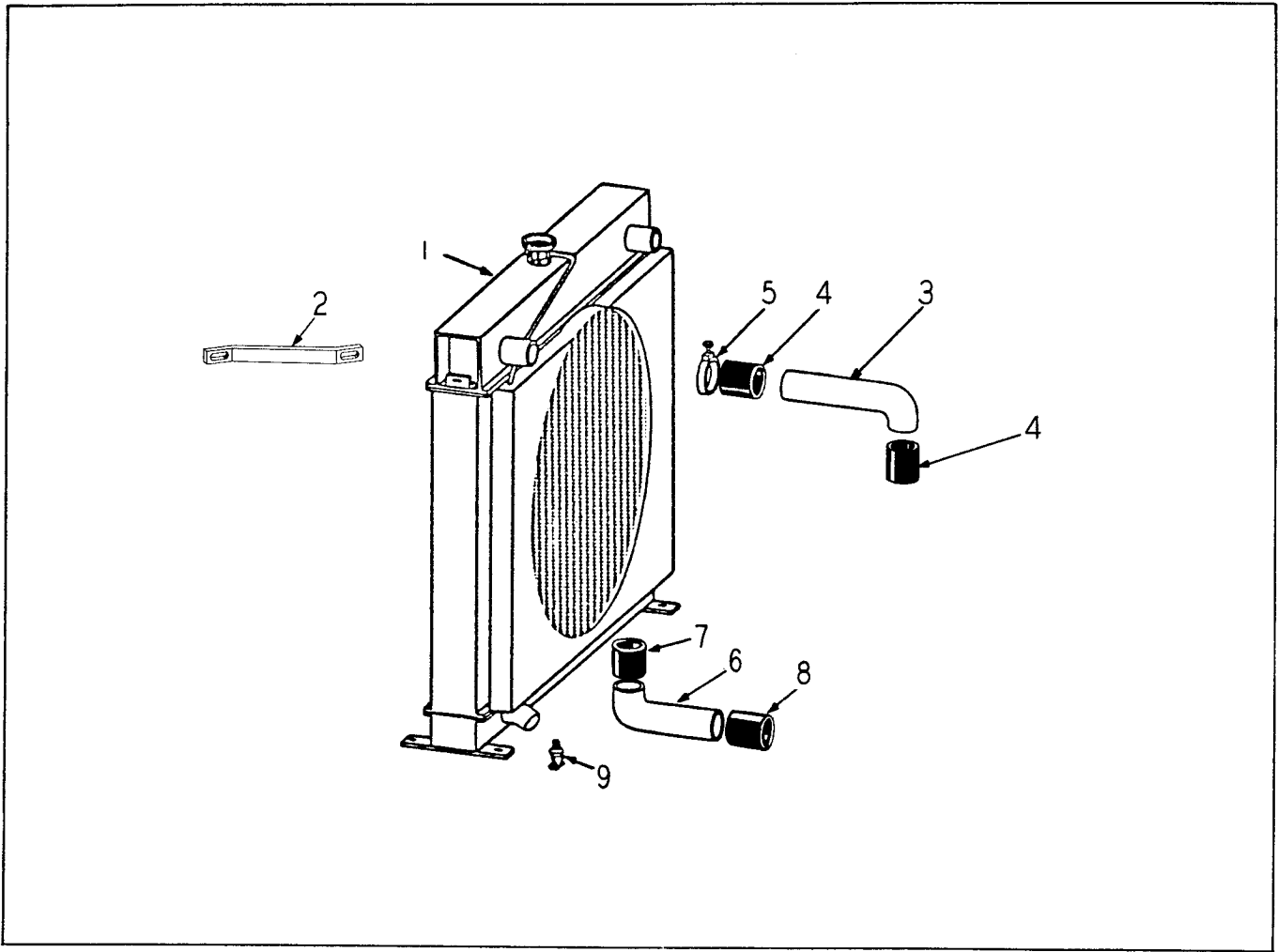
FUEL TANK & LINES (IH ENGINE)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 207081H2 | TANK, Fuel .....   | 1    |
|          | S-11016  | SCREW, Cap.....  | 6    |
|          | WL-110   | WASHER, Lock .....   | 6    |
|          | H-110    | NUT .....  | 6    |
| 2        | P - 18   | PLUG, Pipe .....   | 2    |
|          |          | SUCTION LINE-FUEL TANK TO ENGINE                                   |      |
| 3        | 189602H1 | TUBE, Outlet .....   | 1    |
|          | S-168    | SCREW, Cap .....   | 4    |
|          | WL-16    | WASHER, Lock .....   | 4    |
| 4        | 155932H1 | GASKET .....   | 1    |
| 5        | 103468H1 | ELBOW .....  | 1    |
| 6        | 206076H2 | HOSE, Fuel Tank to Pump .....                                      | 1    |
| 7        |          | PUMP, Fuel (See Page 2-25) .....                                   | 1    |
|          | S-256    | SCREW, Cap .....   | 2    |
|          | WL-15    | WASHER, Lock .....   | 2    |
|          | H - 15   | NUT .....  | 2    |
| 8        | 207080H1 | BRACKET, Fuel Pump Mounting .....                                  | 1    |
|          | S-2622   | SCREW, Cap .....   | 1    |
|          | S-2624   | SCREW, Cap .....   | 1    |
|          | WL-16    | WASHER, Lock .....   | 1    |
| 9        | 206076H2 | HOSE, Pump to Aux. Filter .....                                    | 1    |
| 10       | 103487H1 | ELBOW .....  | 1    |
|          | 127536H1 | BUSHING .....  | 1    |
|          |          | RETURN LINE-ENGINE TO FUEL TANK                                    |      |
| 11       | 875852C1 | HOSE, Engine to tank (replaces 206077H1) S/N's 21FH-03211 & Up.... | 1    |
| 12       | 107353H1 | ADAPTER, Union .....   | 1    |
| 13       | 189602H1 | TUBE, Inlet .....  | 1    |
|          | S-168    | SCREW, Cap.....  | 4    |
|          | WL-16    | WASHER, Lock .....   | 4    |
| 14       | 155932H1 | GASKET.....  | 1    |
| 15       | HA-1279  | CAP, Fuel tank .....   | 1    |
| 16       | 129588H1 | ADAPTER .....  | 1    |
| 17       | 117959H1 | NIPPLE, Close .....  | 1    |



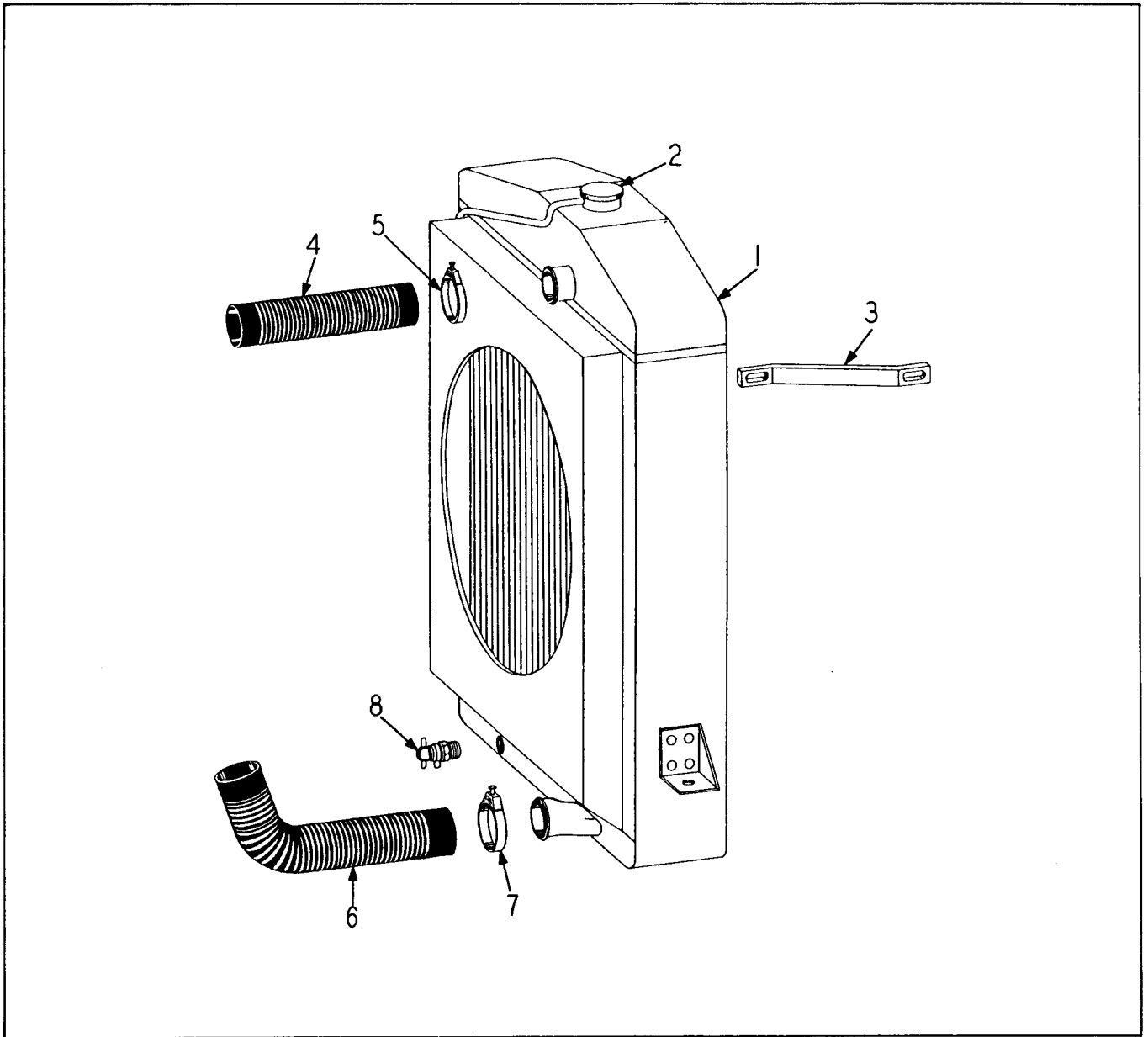
FUEL TANK & LINES (DETROIT DIESEL ENGINE)

| ITEM NO.                        | PART NO. | PART NAME  | Qty. |
|---------------------------------|----------|--|------|
| 1                               | 183635H1 | TANK, Fuel .....   | 1    |
| 2                               | HA-1279  | CAP, Fuel Tank .....   | 1    |
|                                 | S-11016  | SCREW, Cap .....   | 6    |
|                                 | WL-110   | WASHER, Lock .....   | 6    |
|                                 | H-110    | NUT .....  | 6    |
| 3                               | 189602H1 | TUBE, Outlet & Inlet .....                                   | 2    |
|                                 | S-168    | SCREW, Cap .....   | 8    |
|                                 | WL-16    | WASHER, Lock .....   | 8    |
| 4                               | 155932H1 | GASKET .....   | 2    |
| 5                               | 107861H1 | UNION, Adapter .....   | 1    |
| 6                               | 138257H1 | HOSE ASSEMBLY .....  | 1    |
| 7                               |          | VALVE, Check (See Detroit Diesel 471, Engine Manual) .....   | 1    |
| 8                               | 117383H1 | ELBOW (See Detroit Diesel 471, Engine Manual) .....          | 1    |
| 9                               |          | STRAINER, Fuel (See Detroit Diesel 471, Engine Manual) ..... | 1    |
| RETURN LINE-ENGINE TO FUEL TANK |          |  |      |
| 10                              | 184831H1 | HOSE ASSEMBLY .....  | 1    |
| 11                              | 115700H1 | UNION, Adapter 90° .....                                     | 1    |
| FUEL DRAIN LINE                 |          |  |      |
| 12                              | P - 18   | PLUG, Pipe .....   | 2    |
|                                 | 103488H1 | ELBOW, St. ....  | 1    |



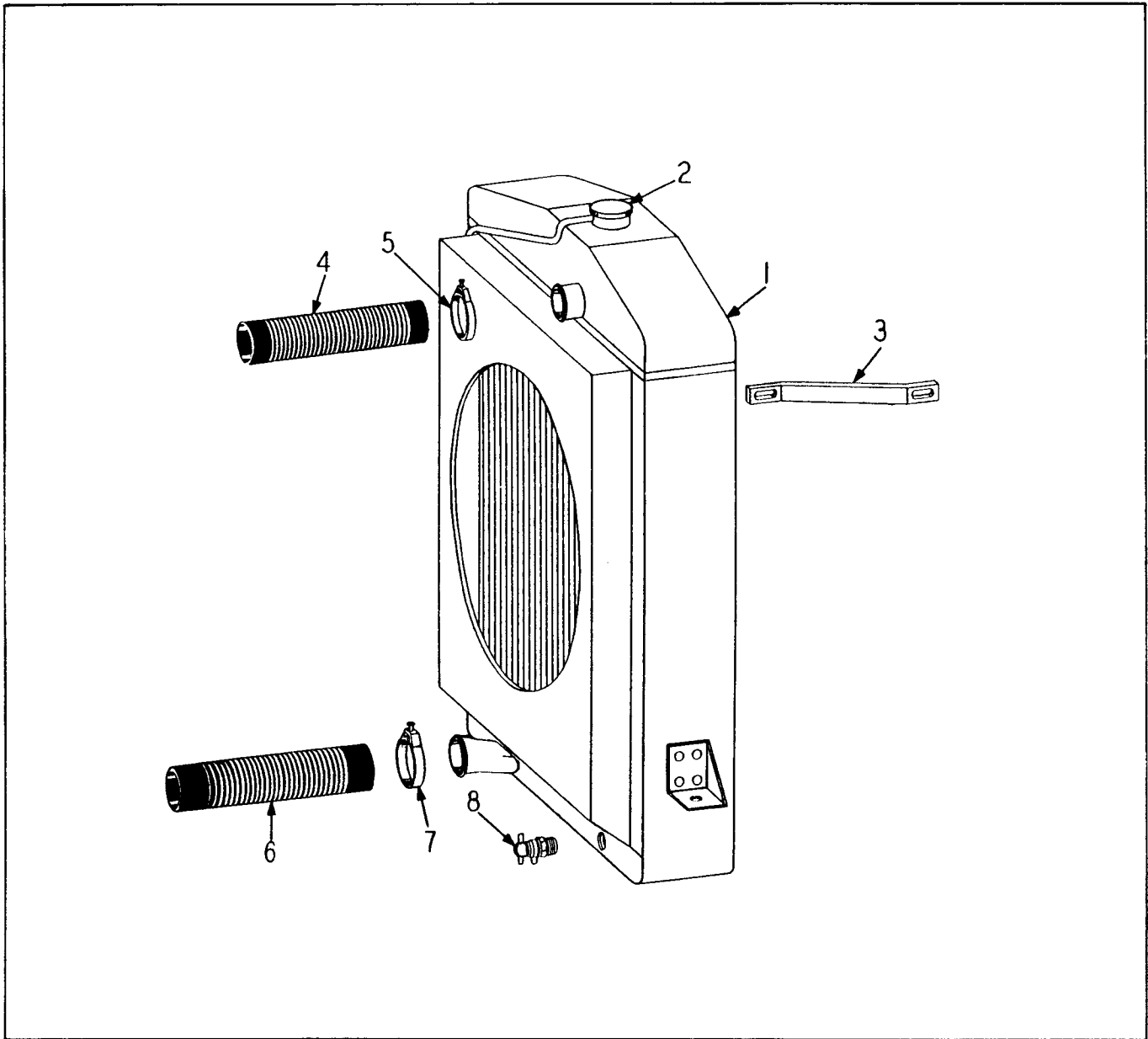
RADIATOR (IH ENGINE)

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 1        | 204588H1 | RADIATOR .....  | 1    |
|          | S-1814   | SCREW, Cap .....  | 2    |
|          | E - 18   | NUT, Esna .....   | 2    |
|          | HA-1274  | CAP, Radiator .....   | 1    |
| 2        | 171735H1 | SUPPORT ARM, Radiator to Hood .....   | 2    |
|          | S-168    | SCREW, Cap .....  | 4    |
|          | WF-16    | WASHER, Flat .....  | 4    |
|          | E - 16   | NUT, Esna .....   | 2    |
| 3        | 204593H1 | TUBE, Top .....   | 1    |
| 4        | 145361H1 | HOSE, Top .....   | 2    |
| 5        | 168812H1 | CLAMP, Top .....  | 4    |
| 6        | 199172H1 | TUBE, Bottom .....  | 1    |
| 7        | 109773H1 | HOSE, Bottom - Radiator .....   | 1    |
| 8        | 109773H1 | HOSE, Bottom - Engine .....   | 1    |
|          | 182491H1 | CLAMP .....   | 4    |
| 9        | 112002H1 | DRAIN COCK, Radiator (Replaces 111493H1) .....  | 1    |
|          | 102928H1 | WASHER, Between Cooler & Radiator .....   | 4    |
|          | WF-16    | WASHER, Flat, Between Cooler & Radiator } Delete on Units with<br>220328H1 Oil Cooler | 8    |



RADIATOR (CUMMINS ENGINE)

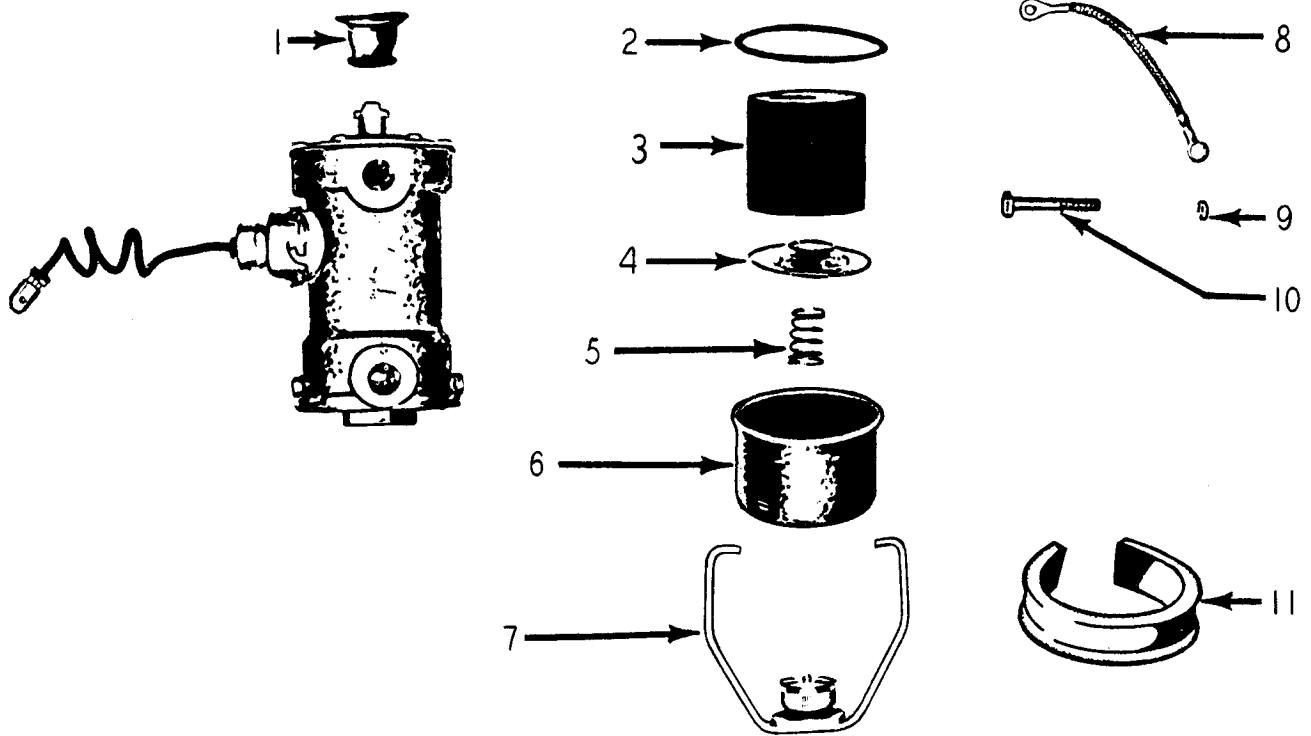
| ITEM NO. | PART NO. | PART NAME                                     | Qty. |
|----------|----------|---|------|
| 1        | 204587H1 | RADIATOR .....                                | 1    |
| 2        | HA-1274  | CAP, Radiator .....                           | 1    |
| 3        | 171735H1 | ARM, Support, Radiator to Hood .....          | 2    |
|          | S-168    | SCREW .....                                   | 4    |
|          | WF-16    | WASHER, Flat .....                            | 4    |
|          | E - 16   | NUT, Esna .....                               | 2    |
| 4        | 128311H1 | HOSE, Radiator Inlet .....                    | 1    |
| 5        | 168813H1 | CLAMP, Hose .....                             | 2    |
| 6        | 175726H1 | HOSE, Radiator Outlet .....                   | 1    |
| 7        | 156384H1 | CLAMP, Hose .....                             | 2    |
| 8        | 112002H1 | DRAIN COCK (Replaces 111493H1) .....          | 1    |
|          | S-1814   | SCREW .....                                   | 2    |
|          | E - 18   | NUT .....                                     | 2    |
|          | 102928H1 | WASHER, Between Cooler & Radiator .....       | 4    |
|          | WF-16    | WASHER, Flat, Between Cooler & Radiator ..... | 8    |



RADIATOR (DETROIT DIESEL ENGINE)

| ITEM NO. | PART NO. | PART NAME                                      | Qty. |
|----------|----------|--|------|
| 1        | 204586H1 | RADIATOR .....                                 | 1    |
|          | 165338H1 | NUT, Weld .....                                | 2    |
| 2        | HA-1274  | CAP, Radiator .....                            | 1    |
| 3        | 171735H1 | ARM, Support - Radiator to Hood .....          | 2    |
|          | S-168    | SCREW .....                                    | 4    |
|          | WF-16    | WASHER, Flat .....                             | 4    |
|          | E - 16   | NUT .....                                      | 2    |
| 4        | 160629H1 | HOSE, Radiator Inlet .....                     | 1    |
| 5        | 168812H1 | CLAMP, Hose .....                              | 2    |
| 6        | 996716R1 | HOSE, Lower Radiator (replaces 160629H1) ..... | 1    |
| 7        | 168813H1 | CLAMP, Hose .....                              | 2    |
| 8        | 112002H1 | DRAIN COCK (Replaces 111493H1) .....           | 1    |
|          | S-1814   | SCREW .....                                    | 2    |
|          | E - 18   | NUT .....                                      | 2    |
|          | 102928H1 | WASHER, Between Cooler & Radiator .....        | 4    |
|          | WF-16    | WASHER, Flat, Between Cooler & Radiator .....  | 8    |
|          |          | Support Arm                                    |      |
|          |          | Radiator to Frame                              |      |
|          |          | Delete on Units with 220328H1 Oil Cooler       |      |





FUEL PUMP (IH ENGINE)

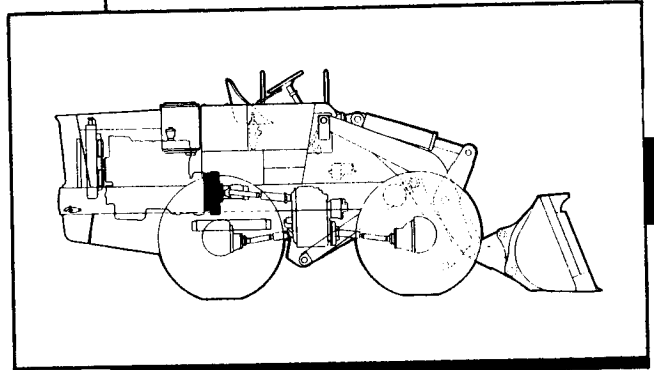
| ITEM NO. | PART NO. | PART NAME                                 | Qty. |
|----------|----------|---|------|
|          | 183021H1 | PUMP, Fuel (Includes the following) ..... | 1    |
| 1        | 186797H1 | PULSE, Chamber .....                      | 1    |
| 2        | 186800H1 | GASKET .....                              | 1    |
| 3        | 186805H1 | FILTER .....                              | 1    |
| 4        | 186806H1 | BASE, Filter .....                        | 1    |
| 5        | 186815H1 | SPRING, Filter .....                      | 1    |
| 6        | 186799H1 | BOWL, Filter .....                        | 1    |
| 7        | 206087H1 | BAIL ASSEMBLY .....                       | 1    |
| 8        |          | GROUND, Lead .....                        | 1    |
| 9        | H - 24   | NUT, 1/4 - 20 .....                       | 1    |
| 10       | S-2412   | SCREW, Cap 1/4 - 20 x 1-1/2 .....         | 1    |
| 11       | 186803H1 | SHOCK, Pad .....                          | 1    |
|          | 206086H1 | BRACKET, Mounting .....                   | 1    |

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NOTES

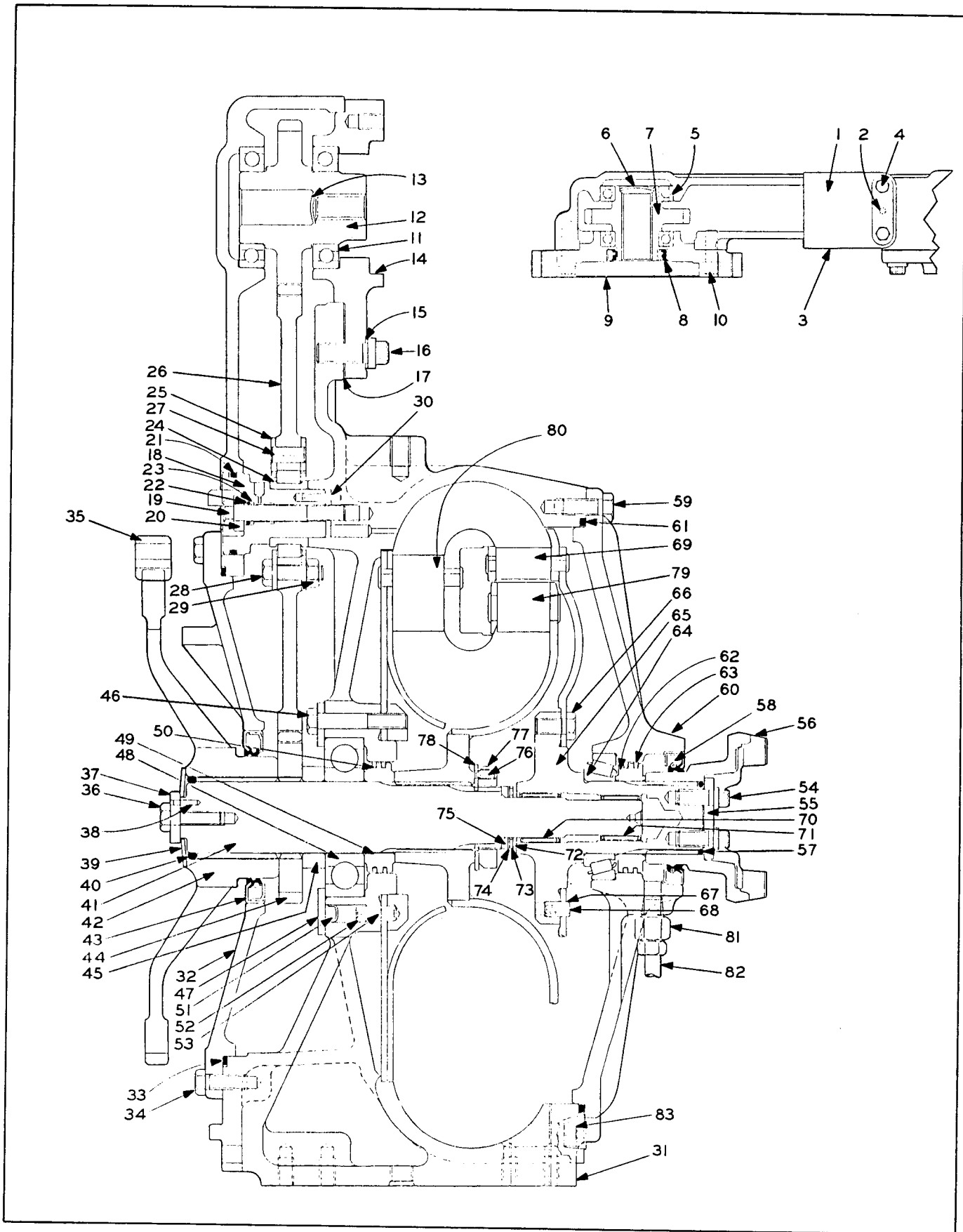
**ACCESSORY  
DRIVE**

**TORQUE  
CONVERTER**



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TORQUE CONVERTER

TORQUE CONVERTER

| ITEM NO. | PART NO. | PART NAME                            | Qty. |
|----------|----------|--------------------------------------|------|
|          | 203980H1 | CONVERTER, Torque .....              | 1    |
| 1        | 200745H1 | COVER .....                          | 1    |
| 2        | 200753H1 | PIN, Roll .....                      | 2    |
| 3        | 200737H1 | GASKET .....                         | 1    |
| 4        | S-2610   | SCREW, Cap .....                     | 4    |
| 5        | 200727H1 | BEARING, Ball .....                  | 2    |
| 6        | 200743H1 | PLUG, Expansion .....                | 1    |
| 7        | 200733H1 | GEAR, PTO Driven .....               | 1    |
| 8        | 200757H1 | SEAL, Oil .....                      | 1    |
| 9        | 200742H1 | PLATE .....                          | 1    |
| 10       | 200756H1 | SCREW, Cap .....                     | 4    |
| 11       | 200727H1 | BEARING, Ball .....                  | 2    |
| 12       | 200734H1 | GEAR, Driven .....                   | 1    |
| 13       | 200744H1 | PLUG, Expansion .....                | 1    |
| 14       | 200739H1 | PLATE, Cover .....                   | 1    |
| 15       | 200769H1 | WASHER, Copper .....                 | 2    |
| 16       | 200756H1 | SCREW, Cap .....                     | 4    |
| 17       | 200731H1 | GASKET, Covers .....                 | 2    |
| 18       | 200759H1 | SHAFT, Idler .....                   | 1    |
| 19       | S-2624   | SCREW, Cap .....                     | 1    |
| 20       | 200768H1 | WASHER .....                         | 2    |
| 21       | 200746H1 | "O" RING, Idler Shaft .....          | 1    |
| 22       | 200752H1 | "O" RING, Idler Shaft Screw .....    | 1    |
| 23       | 200767H1 | WASHER .....                         | 2    |
| 24       | 200726H1 | BEARING, Roller, Idler Gear .....    | 1    |
| 25       | 200842H1 | RETAINER, Bearing .....              | 2    |
| 26       | 200735H1 | GEAR, Idler .....                    | 1    |
| 27       | 200715H1 | PIN, Roll .....                      | 2    |
| 28       | S-1610   | SCREW, Cap .....                     | 4    |
| 29       | H - 16   | NUT .....                            | 4    |
| 30       | 204533H1 | PIN, Roll .....                      | 1    |
| 31       | 200954H1 | HOUSING ASSEMBLY, Converter .....    | 1    |
| 32       | 200740H1 | PLATE, Front Cover .....             | 1    |
| 33       | 200736H1 | GASKET, Front Cover .....            | 1    |
| 34       | S-268    | SCREW, Cap .....                     | 8    |
| 35       | 200749H1 | RING, Drive .....                    | 1    |
| 36       | 204796H1 | SCREW, Special .....                 | 1    |
| 37       | 204536H1 | WASHER, Retainer .....               | 1    |
| 38       | 204534H1 | PIN, Roll .....                      | 1    |
| 39       | 200764H1 | WASHER, Spring .....                 | 1    |
| 40       | 200754H1 | "O" RING .....                       | 1    |
| 41       | 200960H1 | SHAFT, Input .....                   | 1    |
| 42       | 200761H1 | SPIDER, Drive .....                  | 1    |
| 43       | 200762H1 | SEAL, Oil .....                      | 1    |
| 44       | 200732H1 | GEAR, PTO Driving .....              | 1    |
| 45       | 200758H1 | SPACER .....                         | 1    |
| 46       | S-2618   | SCREW, Cap .....                     | 4    |
| 47       | 200755H1 | RETAINER, Bearing .....              | 1    |
| 48       | 200728H1 | BEARING, Ball .....                  | 1    |
| 49       | 200730H1 | CARRIER, Oil Seal .....              | 1    |
| 50       | 200717H1 | RING, Oil Seal .....                 | 2    |
| 51       | 200741H1 | PLUG, Expansion .....                | 5    |
| 52       | 200715H1 | PIN, Roll .....                      | 5    |
| 53       | 200716H1 | PIN, Roll .....                      | 5    |
| 54       | 200722H1 | SCREW, Output Yoke .....             | 2    |
| 55       | 200724H1 | WASHER, Retainer - Output Yoke ..... | 1    |
| 56       | 200725H1 | YOKE, Output .....                   | 1    |
| 57       | 200718H1 | "O" RING, Output Yoke .....          | 1    |
| 58       | 200721H1 | SEAL, Output Yoke .....              | 1    |
| 59       | S-268    | SCREW, Cap .....                     | 16   |
| 60       | 200714H1 | PLATE, End .....                     | 1    |
| 61       | 200713H1 | GASKET, Ring - End Plate .....       | 1    |
| 62       | 200709H1 | CARRIER, Oil Seal .....              | 1    |
| 63       | 200717H1 | RING, Oil Seal .....                 | 2    |

(Continued on following page)

TORQUE CONVERTER (Continued)

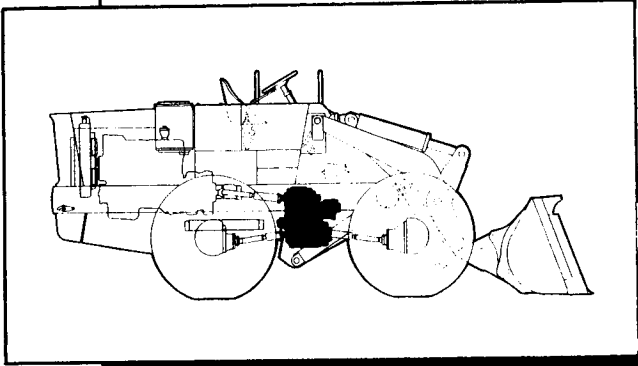
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 64       | 200707H1 | BEARING .....   | 1    |
| 65       | 200711H1 | FLANGE, Output .....  | 1    |
| 66       | 204532H1 | SCREW, Cap .....  | 6    |
| 67       | 200719H1 | PIN, Roll .....   | 6    |
| 68       | 200720H1 | PIN, Roll .....   | 6    |
| 69       | 204798H1 | WHEEL TURBINE ASSEMBLY .....                                  | 1    |
| 70       | 200708H2 | BEARING .....   | 1    |
| 71       | 200706H2 | BEARING .....   | 1    |
| 72       | 200751H1 | RACE, Thrust (.09) .....                                      | 1    |
| 73       | 200729H1 | BEARING .....   | 1    |
| 74       | 200750H1 | RACE, Thrust (.03) .....                                      | 1    |
| 75       | 200766H1 | WASHER, Backing .....   | 1    |
| 76       | 200763H1 | SCREW, Dog Point Set .....                                    | 1    |
| 77       | 200738H1 | NUT, Lock .....   | 1    |
| 78       | 200765H1 | WASHER, Bearing Lock .....                                    | 1    |
| 79       | 204797H1 | WHEEL IMPELLER ASSEMBLY .....                                 | 1    |
| 80       | 200705H1 | WHEEL GUIDE ASSEMBLY .....                                    | 1    |
| 81       | 200712H1 | FITTING, Connector .....                                      | 2    |
| 82       | 200723H1 | TUBING .....  | 1    |
| 83       | P - 46   | PLUG, Pipe - Rear Breather Port & Converter Drain .....       | 2    |
|          | 185213H1 | WASHER, Copper .....  | 2    |
|          | 185192H1 | SCREW, Drive .....  | 4    |
|          | 209755H1 | WASHER, Stamped (Turbine Wheel) .....                         | 6    |
|          | 103488H1 | ELBOW, Street .....   | 1    |
|          | S-2612   | SCREW, Cap - Drive Ring Mounting .....                        | 8    |
|          | S-2610   | SCREW, Cap - Converter Mounting .....                         | 8    |
|          | WL-16    | WASHER, Lock .....  | 18   |
|          | 189953H1 | STUD, Converter Mounting .....                                | 2    |
|          | 125003H1 | WASHER, Dyna Seal .....                                       | 2    |
|          | H - 16   | NUT .....   | 2    |
|          | OR4-8    | "O" RING .....  | 2    |
| *        | 194400H1 | VALVE, Vacuum - Pressure Relief (Includes next 4 items) ..... | 1    |
| *        | 198461H1 | FILTER .....  | 1    |
| *        | 198462H1 | RING, Lock .....  | 2    |
| *        | 198463H1 | SEAL, Sleeve .....  | 1    |
| *        | 198464H1 | SEAL, Poppet .....  | 1    |
| *        | 109820H1 | NIPPLE .....  | 1    |
| *        | 107354H1 | COUPLING .....  | 1    |
|          | 127536H1 | REDUCER .....   | 1    |
|          | 150269H1 | VALVE, Check (Includes next 4 items) .....                    | 1    |
|          | 151557H1 | SWING ASSEMBLY .....  | 1    |
|          | 151558H1 | PIN .....   | 1    |
|          | 151559H1 | SPRING .....  | 1    |
|          | 151560H1 | GASKET .....  | 1    |
|          | 127535H1 | REDUCER .....   | 1    |
|          | 152127H1 | BREATHER .....  | 1    |

Replaced by following 8 items on later units

Replace items marked \*

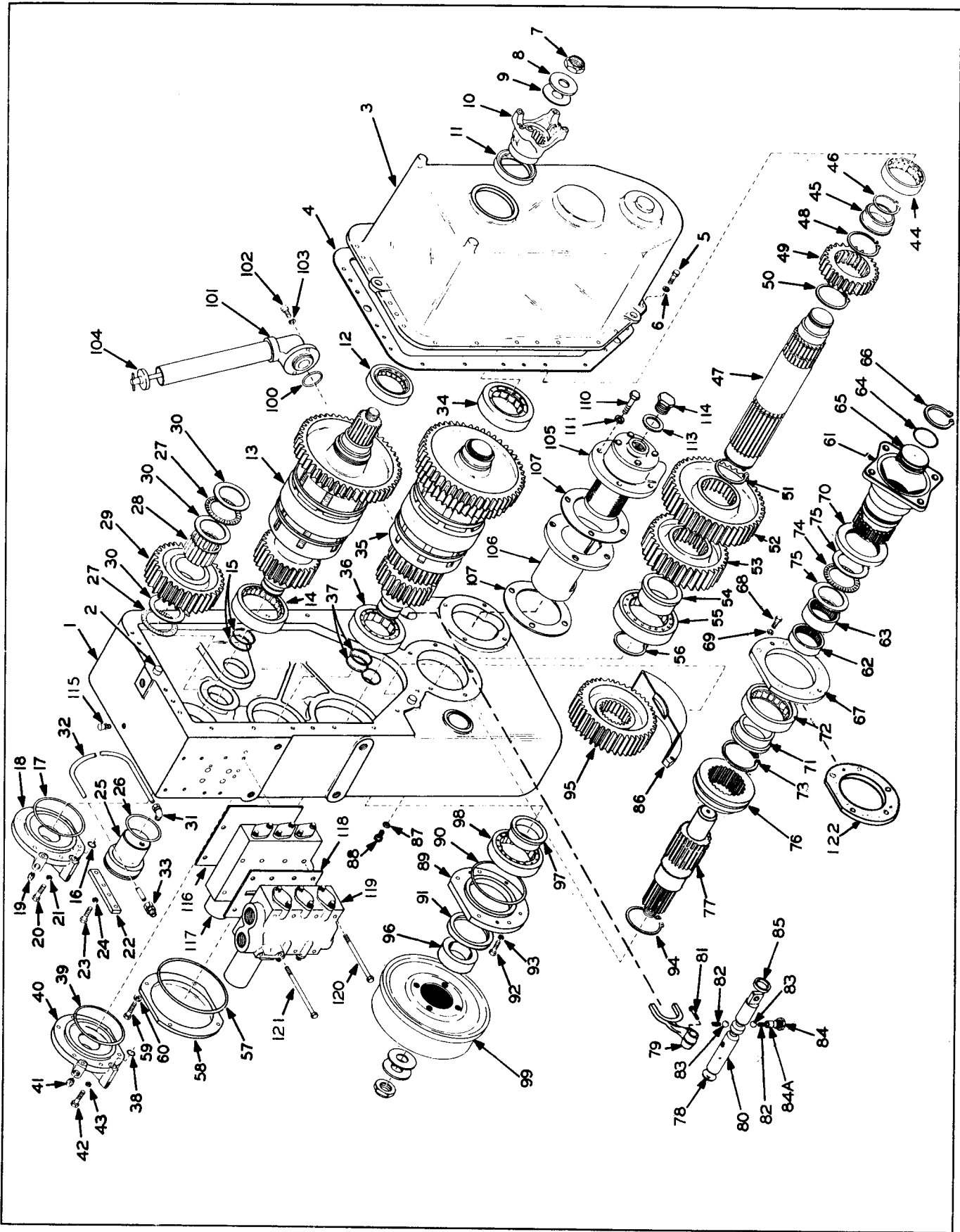
**SECTION 4**

**TRANSMISSION**



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TRANSMISSION  
(P-1500)



TRANSMISSION  
(P-1500)

| ITEM NO.   | PART NO. | PART NAME  | Qty. |
|--|----------|--|------|
|  | 204050H1 | TRANSMISSION ASSEMBLY (S/N's 21F-02901 thru 03240) ..... | 1    |
| 1  | 204103H1 | HOUSING, Main (Includes Item 2) .....                    | 1    |
| 2  | 201877H1 | PIN, Dowel .....   | 2    |
| 3  | 197265H1 | COVER .....  | 1    |
| * 4  | 197266H1 | GASKET, Main Cover to Housing .....                      | 1    |
| 5  | S-267    | SCREW, Cap .....   | 18   |
| 6  | WL-16    | WASHER, Lock .....                                       | 18   |
| 7  | 123298H1 | NUT .....  | 2    |
| 8  | 197215H1 | WASHER .....   | 2    |
| * 9  | 197270H1 | GASKET .....   | 1    |
| 10   | 197268H1 | FLANGE .....   | 1    |
| * 11   | 197267H1 | SEAL, Oil .....  | 1    |
| 12   | 185527H1 | RACE, Bearing Outer .....                                | 1    |
| 13   |          | DIRECTIONAL CLUTCH ASSEMBLY (See Page 4-11) .....        | 1    |
| 14   | 187071H1 | RACE, Bearing Outer .....                                | 1    |
| 15   | 129509H1 | RING, Piston .....                                       | 2    |
| * 16   | OR4-11   | "O" RING .....   | 2    |
| * 17   | OR3-22   | "O" RING .....   | 1    |
| 18   | 197210H1 | CAP, Directional Clutch .....                            | 1    |
| 19   | P - 14   | PLUG, Pipe .....   | 2    |
| 20   | S-267    | SCREW, Cap .....   | 6    |
| 21   | WL-16    | WASHER, Lock .....                                       | 6    |
| 22   | 197232H1 | RETAINER, Idler Shaft .....                              | 1    |
| 23   | S-267    | SCREW, Cap .....   | 4    |
| 24   | WL-16    | WASHER, Lock .....                                       | 4    |
| 25   | 197231H1 | SHAFT, Idler .....                                       | 1    |
| * 26   | OR3-11   | "O" RING .....   | 1    |
| 27   | 197228H1 | BEARING, Thrust .....                                    | 2    |
| 28   | 197230H1 | BEARING, Roller .....                                    | 1    |
| 29   | 197227H1 | GEAR, Reverse Idler 33T .....                            | 1    |
| 30   | 197229H1 | RACE, Thrust .....                                       | 3    |
| 31   | 197233H1 | ELBOW .....  | 1    |
| 32   | 197234H1 | TUBE .....   | 1    |
| 33   | 197235H1 | ADAPTER .....  | 1    |
| 34   | 187071H1 | RACE, Bearing Outer .....                                | 1    |
| 35   |          | RANGE CLUTCH ASSEMBLY (See Page 4-13) .....              | 1    |
| 36   | 187071H1 | RACE, Bearing Outer .....                                | 1    |
| 37   | 129509H1 | RING, Piston .....                                       | 2    |
| * 38   | OR4-11   | "O" RING .....   | 2    |
| * 39   | OR3-22   | "O" RING .....   | 1    |
| 40   | 197210H1 | CAP, Range Clutch .....                                  | 1    |
| 41   | P - 14   | PLUG, Pipe .....   | 2    |
| 42   | S-267    | SCREW, Cap .....   | 6    |
| 43   | WL-16    | WASHER, Lock .....                                       | 6    |
| 44   | 185527H1 | RACE, Bearing Outer .....                                | 1    |
| 45   | 205311H1 | GATHER SHAFT ASSEMBLY (Includes Items 45 thru 55) .....  | 1    |
| 46   | 185526H1 | RACE, Bearing Inner .....                                | 1    |
| 47   | 116719H1 | RING, Snap .....   | 1    |
| 48   | 197217H1 | SHAFT, Gather .....                                      | 1    |
| 49   | 129557H1 | RING, Snap .....   | 1    |
| 50   | 197223H1 | GEAR, 26T .....  | 1    |
| 51   | 129557H1 | RING, Snap .....   | 1    |
| 52   | 129557H1 | RING, Snap .....   | 1    |
| 53   | 197221H1 | GEAR, 45T .....  | 1    |
| 54   | 197219H1 | GEAR, 38T .....  | 1    |
| 55   | 185507H1 | RACE, Bearing Inner .....                                | 1    |
| 56   | 114349H1 | RING, Snap .....   | 1    |
| 57   | 185513H1 | RACE, Bearing Outer .....                                | 1    |
| * 58   | OR3-29   | "O" RING .....   | 1    |
| 59   | 197212H1 | CAP, Gather Shaft .....                                  | 1    |
|  | S-267    | SCREW, Cap .....   | 4    |
| * Note: All parts marked with an asterisk are part of 204061H1<br>"O" Ring, Seal and Gasket Kit. |          |  |      |

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TRANSMISSION (Continued)  
(P-1500)

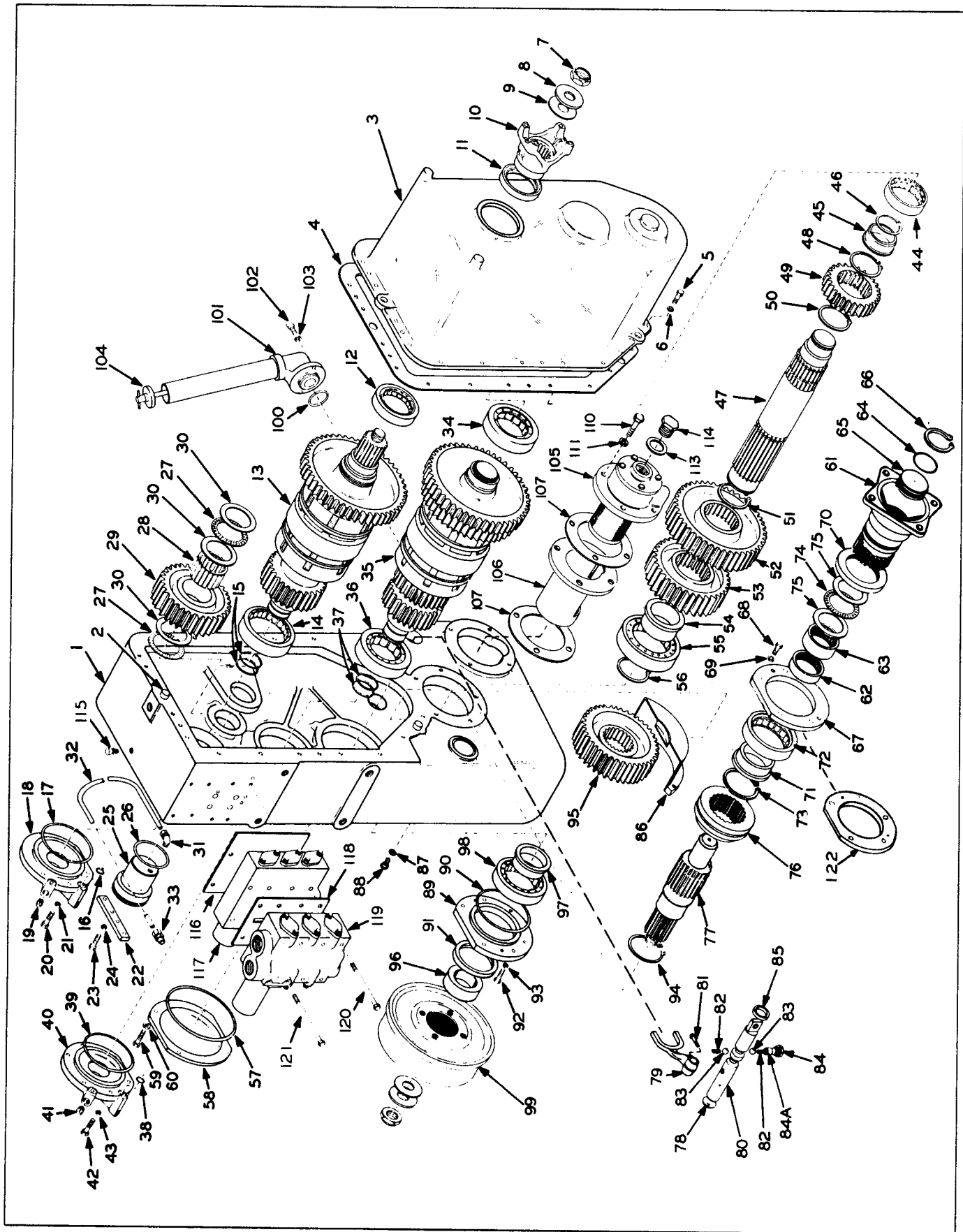
| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
| 60       | WL-16     | WASHER, Lock   | 4    |
| 61       | 204024H1  | FLANGE   | 1    |
| 62       | 146365H1  | BEARING, Needle  | 1    |
| 63       | 204025H1  | BEARING, Needle  | 1    |
| * 64     | OR3-4     | "O" RING   | 1    |
| 65       | 204028H1  | RETAINER   | 1    |
| 66       | 204030H1  | RING, Snap   | 1    |
| 67       | 204029H1  | RETAINER   | 1    |
| 68       | S-267     | SCREW, Cap   | 5    |
| 69       | WL-16     | WASHER, Lock   | 5    |
| * 70     | 194423H1  | SEAL, Oil  | 1    |
| 71       | 204026H1  | RACE, Inner  | 1    |
| 72       | 194415H1  | RACE, Outer  | 1    |
| 73       | 118076H1  | RING, Snap   | 1    |
| 74       | 138470H1  | BEARING, Thrust  | 1    |
| 75       | 201293H1  | RACE, Thrust   | 2    |
| 76       | 204032H1  | COLLAR, Shifting   | 1    |
| 77       | 204031H1  | SHAFT, Output  | 1    |
| 78       | 116595H1  | PLUG, Welch  | 1    |
| 79       | 204040H1  | FORK, Shifting   | 1    |
| 80       | 204038H1  | RAIL, Shifter  | 1    |
| 81       | 204044H1  | SCREW, Cap   | 1    |
| 82       | 116640H1  | SPRING   | 2    |
| 83       | 115451H1  | BALL, Detent   | 2    |
|          | 204041H1  | WASHER, Copper   | 1    |
| 84       | 204042H1  | RETAINER, Spring   | 1    |
| 84A      | 204353H1  | SLEEVE   | 1    |
| * 85     | 204043H1  | SEAL, Oil  | 1    |
| 86       | 197216H1  | BAFFLE, Oil Sump   | 1    |
| * 87     | 125003H1  | WASHER   | 3    |
| 88       | S-267     | SCREW, Cap   | 3    |
| 89       | 204035H2  | ADAPTER (Replaced 204035H1) S/N 21FH-3012, 14, 21, 24 & Up | 1    |
| * 90     | OR3-23    | "O" RING   | 1    |
| * 91     | 204167H1  | SEAL, Oil  | 1    |
| 92       | S-267     | SCREW, Cap   | 8    |
| 93       | WL-16     | WASHER, Lock   | 8    |
| 94       | 118072H1  | RING, Snap   | 1    |
| 95       | 197214H1  | GEAR, 39T  | 1    |
| 96       | 205951H1  | SPACER   | 1    |
| 97       | 185534H1  | RACE, Inner  | 1    |
| 98       | 165637H1  | RACE, Outer  | 1    |
|          | 137660H1  | PIN  | 1    |
| 99       |           | BRAKE, Parking (See Page 4-16)                             | 1    |
| * 100    | OR4-25    | "O" RING   | 1    |
| 101      | 197279H1  | TUBE ASSEMBLY  | 1    |
| 102      | 141095H1  | SCREW, Cap (Replaces 199533H1)                             | 2    |
| 103      | WL-16     | WASHER, Lock   | 2    |
| 104      | 197278H1  | DIPSTICK   | 1    |
| # 105    | 875999C91 | FILTER, Sump (replaces 197271H1 Oil Strainer) (See Note)   | 1    |
| 106      | 211870H1  | BAFFLE, Strainer - S/N 21FH-3010, 12, 14, 21, 24 & Up      | 1    |
| * 107    | 197277H1  | GASKET (Use (1) prior to add baffle)                       | 2    |
| #        | OR3-1     | "O" RING (replaced by 875999C91)                           | 1    |
| #        | 197275H1  | CAP (7/8" overall thickness) (replaced by 875999C91)       | 1    |
| 110      | S-267     | SCREW, Cap   | 4    |
| 111      | WL-16     | WASHER, Lock   | 4    |
| #        | 197272H1  | NUT (replaced by 875999C91)                                | 1    |
| 113      | 114851H1  | WASHER   | 1    |
| 114      | 121508H1  | PLUG   | 1    |
| 115      | 152127H1  | BREATHER   | 1    |
| * 116    | 197299H1  | GASKET, Valve to Housing                                   | 1    |
| 117      | 197284H1  | VALVE, Directional Control (See Page 4-15)                 | 1    |
| * 118    | 197300H1  | GASKET, Valve to Valve                                     | 1    |
| 119      | 197301H1  | VALVE, Pressure Regulator (See Page 4-15)                  | 1    |

\* Part of "O" Ring Kit.

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TRANSMISSION (Continued)  
(P-1500)

| ITEM NO.  | PART NO.                    | PART NAME   | Qty. |          |          |           |                    |          |                             |        |                    |           |                           |
|---|-----------------------------|---|------|----------|----------|-----------|--------------------|----------|-----------------------------|--------|--------------------|-----------|---------------------------|
| 120   | S-2640                      | SCREW, Cap .....  | 6    |          |          |           |                    |          |                             |        |                    |           |                           |
| 121   | S-2644                      | SCREW, Cap .....  | 2    |          |          |           |                    |          |                             |        |                    |           |                           |
|   | WL-16                       | WASHER, Lock .....  | 8    |          |          |           |                    |          |                             |        |                    |           |                           |
| * 122   | 197262H1                    | GASKET .....  | 1    |          |          |           |                    |          |                             |        |                    |           |                           |
|   | 197283H1                    | PLATE, Name .....   | 1    |          |          |           |                    |          |                             |        |                    |           |                           |
|   | 123250H1                    | SCREWS, Drive .....   | 2    |          |          |           |                    |          |                             |        |                    |           |                           |
|   | 204061H1                    | KIT, "O" Ring, Seal and Gasket (Includes all parts marked with an asterisk) ..... | 1    |          |          |           |                    |          |                             |        |                    |           |                           |
| <p># NOTE: 875999C91 Sump Filter replaces 197271H1. Both old and new will be supplied until old is exhausted; then new only will be supplied. The new filter 875999C91 has a built-in check valve and consists of the following items:</p> <table style="margin-left: 40px;"> <tr> <td>876425C1</td> <td>Head (1)</td> </tr> <tr> <td>876426C91</td> <td>Valve Assembly (1)</td> </tr> <tr> <td>876427C1</td> <td>Filter Element Assembly (1)</td> </tr> <tr> <td>OR4-21</td> <td>"O" Ring, Head (1)</td> </tr> <tr> <td>876428C91</td> <td>Capscrew W/Lockwasher (1)</td> </tr> </table> |                             |   |      | 876425C1 | Head (1) | 876426C91 | Valve Assembly (1) | 876427C1 | Filter Element Assembly (1) | OR4-21 | "O" Ring, Head (1) | 876428C91 | Capscrew W/Lockwasher (1) |
| 876425C1  | Head (1)                    |   |      |          |          |           |                    |          |                             |        |                    |           |                           |
| 876426C91   | Valve Assembly (1)          |   |      |          |          |           |                    |          |                             |        |                    |           |                           |
| 876427C1  | Filter Element Assembly (1) |   |      |          |          |           |                    |          |                             |        |                    |           |                           |
| OR4-21  | "O" Ring, Head (1)          |   |      |          |          |           |                    |          |                             |        |                    |           |                           |
| 876428C91   | Capscrew W/Lockwasher (1)   |   |      |          |          |           |                    |          |                             |        |                    |           |                           |



TRANSMISSION  
(P-1508)

TRANSMISSION

(P-1508)

| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
|          | 875001C91 | TRANSMISSION ASSEMBLY (replaces 204050H1 on S/N's 21F-03241 and Up) (See Note) ..... | 1    |
| 1        | 204103H1  | HOUSING, Main (Includes Item 2) .....  | 1    |
| 2        | 201877H1  | PIN, Dowel .....   | 2    |
| 3        | 197265H1  | COVER .....  | 1    |
| * 4      | 197266H1  | GASKET, Main Cover to Housing .....  | 1    |
| 5        | S-267     | SCREW, Cap .....   | 18   |
| 6        | WL-16     | WASHER, Lock .....   | 18   |
| 7        | 123298H1  | NUT .....  | 2    |
| 8        | 197215H1  | WASHER .....   | 2    |
| * 9      | 197270H1  | GASKET .....   | 1    |
| 10       | 197268H1  | FLANGE .....   | 1    |
| * 11     | 197267H1  | SEAL, Oil .....  | 1    |
| 12       | 185527H1  | RACE, Bearing Outer .....  | 1    |
| 13       |           | DIRECTIONAL CLUTCH ASSEMBLY (See Page 4-11) .....                                    | 1    |
| 14       | 187071H1  | RACE, Bearing Outer .....  | 1    |
| 15       | 129509H1  | RING, Piston .....   | 2    |
| * 16     | OR4-11    | "O" RING .....   | 2    |
| * 17     | OR3-22    | "O" RING .....   | 1    |
| 18       | 197210H1  | CAP, Directional Clutch .....  | 1    |
| 19       | P - 14    | PLUG, Pipe .....   | 2    |
| 20       | S-267     | SCREW, Cap .....   | 6    |
| 21       | WL-16     | WASHER, Lock .....   | 6    |
| 22       | 197232H1  | RETAINER, Idler Shaft .....  | 1    |
| 23       | S-267     | SCREW, Cap .....   | 4    |
| 24       | WL-16     | WASHER, Lock .....   | 4    |
| 25       | 197231H1  | SHAFT, Idler .....   | 1    |
| * 26     | OR3-11    | "O" RING .....   | 1    |
| 27       | 197228H1  | BEARING, Thrust .....  | 2    |
| 28       | 197230H1  | BEARING, Roller .....  | 1    |
| 29       | 197227H1  | GEAR, Reverse Idler 33T .....  | 1    |
| 30       | 197229H1  | RACE, Thrust .....   | 3    |
| 31       | 197233H1  | ELBOW .....  | 1    |
| 32       | 197234H1  | TUBE .....   | 1    |
| 33       | 197235H1  | ADAPTER .....  | 1    |
| 34       | 187071H1  | RACE, Bearing Outer .....  | 1    |
| 35       |           | RANGE CLUTCH ASSEMBLY (See Page 4-13) .....  | 1    |
| 36       | 187071H1  | RACE, Bearing Outer .....  | 1    |
| 37       | 129509H1  | RING, Piston .....   | 2    |
| * 38     | OR4-11    | "O" RING .....   | 2    |
| * 39     | OR3-22    | "O" RING .....   | 1    |
| 40       | 197210H1  | CAP, Range Clutch .....  | 1    |
| 41       | P - 14    | PLUG, Pipe .....   | 2    |
| 42       | S-267     | SCREW, Cap .....   | 6    |
| 43       | WL-16     | WASHER, Lock .....   | 6    |
| 44       | 185527H1  | RACE, Bearing Outer .....  | 1    |
|          | 221423H1  | GATHER SHAFT ASSEMBLY (Includes Items 45 thru 55) .....                              | 1    |
| 45       | 185526H1  | RACE, Bearing Inner .....  | 1    |
| 46       | 116719H1  | RING, Snap .....   | 1    |
| 47       | 197217H1  | SHAFT, Gather .....  | 1    |
| 48       | 129557H1  | RING, Snap .....   | 1    |
| 49       | 211013H1  | GEAR, 22T .....  | 1    |
| 50       | 129557H1  | RING, Snap .....   | 1    |
| 51       | 129557H1  | RING, Snap .....   | 1    |
| 52       | 197221H1  | GEAR, 45T .....  | 1    |
| 53       | 221424H1  | GEAR, 35T .....  | 1    |
| 54       | 185507H1  | RACE, Bearing Inner .....  | 1    |
| 55       | 114349H1  | RING, Snap .....   | 1    |
| 56       | 185513H1  | RACE, Bearing Outer .....  | 1    |
| * 57     | OR3-29    | "O" RING .....   | 1    |
| 58       | 197212H1  | CAP, Gather Shaft .....  | 1    |
| 59       | S-267     | SCREW, Cap .....   | 4    |

\*Note: All parts marked with an asterisk are part of 204061H1 "O" Ring, Seal and Gasket Kit.

(Continued on following page)

## TRANSMISSION (Continued)

(P-1508)

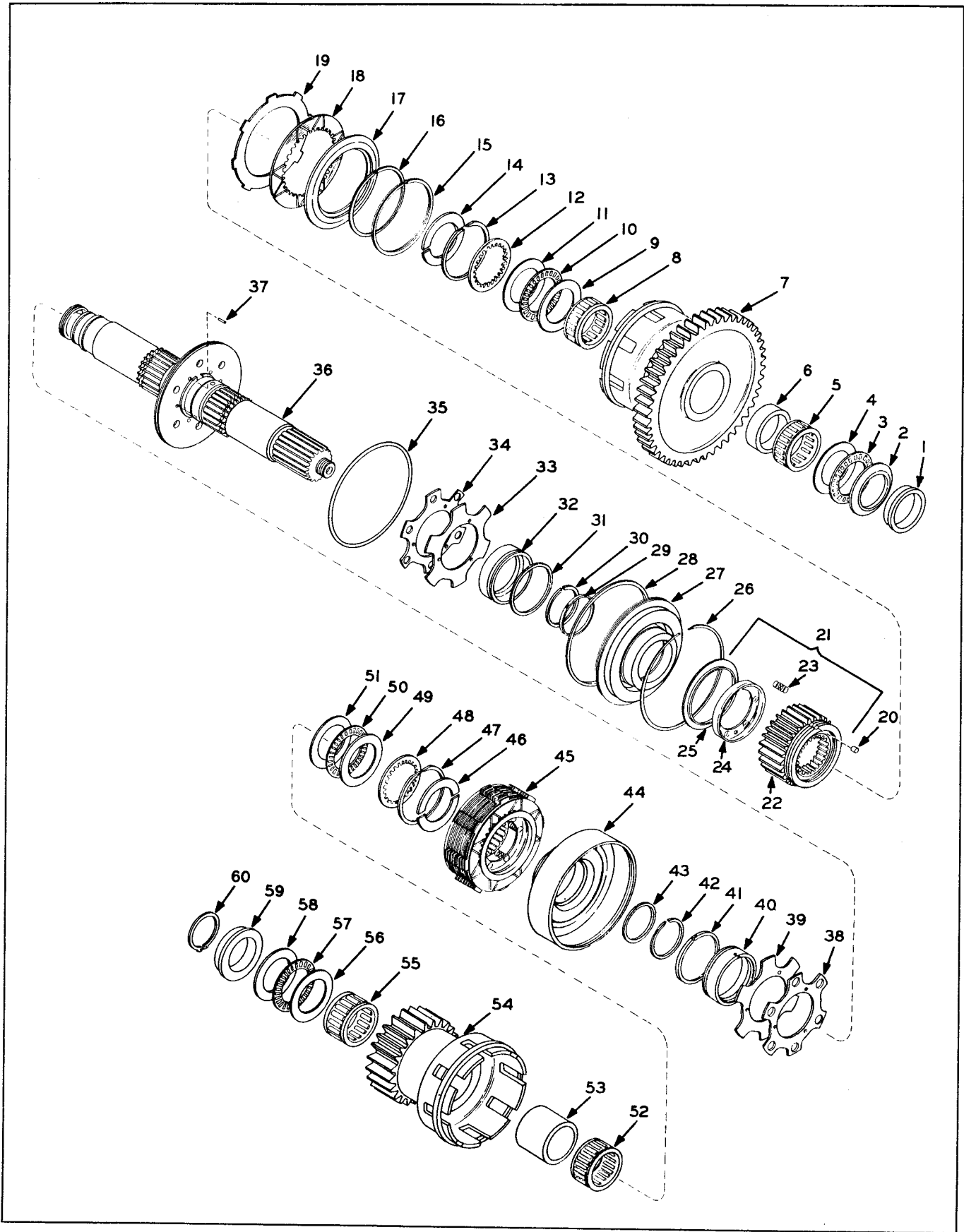
| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
| 60       | WL-16     | WASHER, Lock .....   | 4    |
| 61       | 204024H1  | FLANGE .....   | 1    |
| 62       | 146365H1  | BEARING, Needle .....  | 1    |
| 63       | 204025H1  | BEARING, Needle .....  | 1    |
| * 64     | OR3-4     | "O" RING .....   | 1    |
| 65       | 204028H1  | RETAINER .....   | 1    |
| 66       | 204030H1  | RING, Snap .....   | 1    |
| 67       | 204029H1  | RETAINER .....   | 1    |
| 68       | S-267     | SCREW, Cap .....   | 5    |
| 69       | WL-16     | WASHER, Lock .....   | 5    |
| * 70     | 194423H1  | SEAL, Oil .....  | 1    |
| 71       | 204026H1  | RACE, Inner .....  | 1    |
| 72       | 194415H1  | RACE, Outer .....  | 1    |
| 73       | 118076H1  | RING, Snap .....   | 1    |
| 74       | 138470H1  | BEARING, Thrust .....  | 1    |
| 75       | 201293H1  | RACE, Thrust .....   | 2    |
| 76       | 204032H1  | COLLAR, Shifting .....   | 1    |
| 77       | 204031H1  | SHAFT, Output .....  | 1    |
| 78       | 116595H1  | PLUG, Welch .....  | 1    |
| 79       | 204040H1  | FORK, Shifting .....   | 1    |
| 80       | 204038H1  | RAIL, Shifter .....  | 1    |
| 81       | 204044H1  | SCREW, Cap .....   | 1    |
| 82       | 116640H1  | SPRING .....   | 2    |
| 83       | 115451H1  | BALL, Detent .....   | 2    |
|          | 204041H1  | WASHER, Copper .....   | 1    |
| 84       | 204042H1  | RETAINER, Spring .....   | 1    |
| 84A      | 204353H1  | SLEEVE .....   | 1    |
| * 85     | 204043H1  | SEAL, Oil .....  | 1    |
| 86       | 197216H1  | BAFFLE, Oil Sump .....   | 1    |
| * 87     | 125003H1  | WASHER .....   | 3    |
| 88       | S-267     | SCREW, Cap .....   | 3    |
| 89       | 204035H2  | ADAPTER (Replaced 204035H1) S/N 21FH-3012, 14, 21, 24 & Up ..... | 1    |
| * 90     | OR3-23    | "O" RING .....   | 1    |
| * 91     | 204167H1  | SEAL, Oil .....  | 1    |
| 92       | S-267     | SCREW, Cap .....   | 8    |
| 93.      | WL-16     | WASHER, Lock .....   | 8    |
| 94       | 118072H1  | RING, Snap .....   | 1    |
| 95       | 221425H1  | GEAR, 42T .....  | 1    |
| 96       | 205951H1  | SPACER .....   | 1    |
| 97       | 185534H1  | RACE, Inner .....  | 1    |
| 98       | 165637H1  | RACE, Outer .....  | 1    |
|          | 137660H1  | PIN .....  | 1    |
| 99       |           | BRAKE, Parking (See Page 4-16) .....                             | 1    |
| *100     | OR4-25    | "O" RING .....   | 1    |
| 101      | 197279H1  | TUBE ASSEMBLY .....  | 1    |
| *102     | 141095H1  | SCREW, Cap (Replaces 199533H1) .....                             | 2    |
| *103     | WL-16     | WASHER, Lock .....   | 2    |
| 104      | 197278H1  | DIPSTICK .....   | 1    |
| 105      | 875999C91 | FILTER, Sump (contains the following 5 items) .....              | 1    |
|          | 876425C1  | HEAD .....   | 1    |
|          | 876426C91 | VALVE ASSEMBLY .....   | 1    |
|          | 876427C1  | FILTER ELEMENT ASSEMBLY .....                                    | 1    |
|          | OR4-21    | "O" RING, Head .....   | 1    |
|          | 876428C91 | SCREW, W/Lockwasher .....  | 1    |
| 106      | 211870H1  | BAFFLE, Strainer - S/N 21FH-3010, 12, 14, 21, 24 & Up .....      | 1    |
| *107     | 197277H1  | GASKET (Use (1) prior to add baffle) .....                       | 2    |
| 110      | S-267     | SCREW, Cap .....   | 4    |
| 111      | WL-16     | WASHER, Lock .....   | 4    |
| 113      | 114851H1  | WASHER .....   | 1    |
| 114      | 121508H1  | PLUG .....   | 1    |
| 115      | 152127H1  | BREATHER .....   | 1    |
| *116     | 197299H1  | GASKET, Valve to Housing .....                                   | 1    |
| 117      | 197284H1  | VALVE, Directional Control (See Page 4-15) .....                 | 1    |
| *118     | 197300H1  | GASKET, Valve to Valve .....                                     | 1    |
| 119      | 197301H1  | VALVE, Pressure Regulator (See Page 4-15) .....                  | 1    |
|          |           | * Part of "O" Ring Kit.  |      |

(Continued on following page)

TRANSMISSION (Continued)

(P-1508)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 120      | S-2640   | SCREW, Cap.....  | 6    |
| 121      | S-2644   | SCREW, Cap.....  | 2    |
|          | WL-16    | WASHER, Lock .....   | 8    |
| *122     | 197262H1 | GASKET.....  | 1    |
|          | 197283H1 | PLATE, Name .....  | 1    |
|          | 123250H1 | SCREWS, Drive .....  | 2    |
|          | 204061H1 | KIT, "O" Ring, Seal and Gasket (Includes all parts marked with an asterisk) .....      | 1    |
|          |          | <p>NOTE: 875001C91 and 204050H1 Transmissions are the same except for gear ratios.</p> |      |

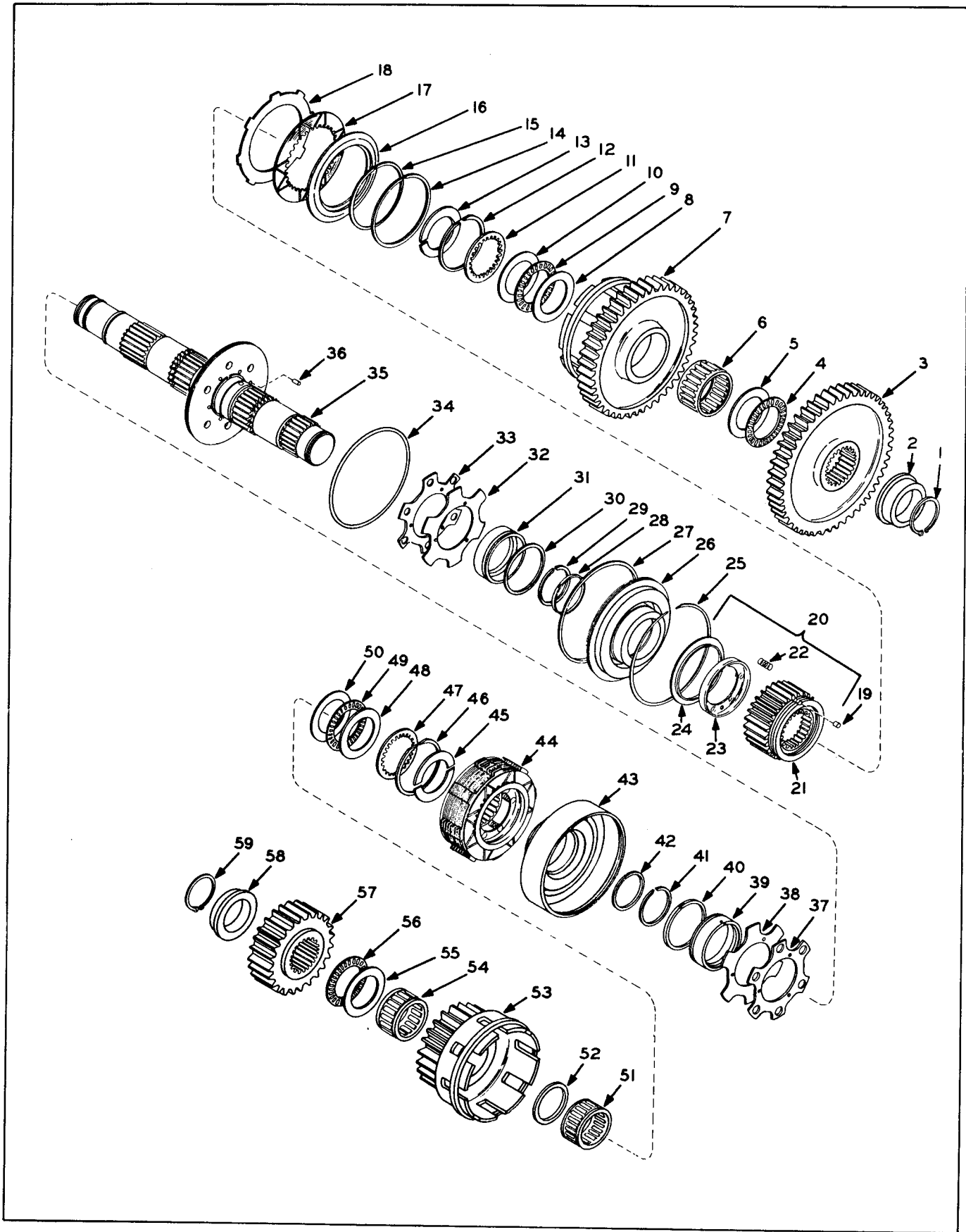


DIRECTIONAL CLUTCH  
(P-1500 & P-1508)



DIRECTIONAL CLUTCH

| ITEM NO.  | PART NO. | PART NAME  | Qty. |
|---|----------|--|------|
|   | 197252H2 | BASIC CLUTCH PACK (Includes items 12 thru 48).....   | 1    |
| 1   | 185526H1 | RACE, Bearing, Inner .....                           | 1    |
| 2   | 197260H1 | RACE, Thrust .....                                   | 1    |
| 3   | 197228H1 | BEARING, Thrust .....                                | 1    |
| 4   | 197229H1 | RACE, Thrust .....                                   | 1    |
| 5   | 197246H1 | BEARING .....  | 1    |
| 6   | 197261H1 | SPACER .....   | 1    |
| 7   | 197253H1 | GEAR & HUB ASSEMBLY, 48T .....                       | 1    |
| 8   | 197246H1 | BEARING .....  | 1    |
| 9   | 197229H1 | RACE, Thrust .....                                   | 1    |
| 10  | 197228H1 | BEARING .....  | 1    |
| 11  | 197229H1 | RACE, Thrust .....                                   | 1    |
| 12  | 205576H1 | SPACER .....   | 1    |
| 13  | 200180H1 | RING, Snap - Int. ....                               | 1    |
| 14  | 200179H2 | RETAINER .....                                       | 2    |
|   | 200172H1 | FINAL HUB ASSEMBLY (Includes Items 15 thru 25) ..... | 1    |
| 15  | 164291H1 | RING, Snap - Int. ....                               | 1    |
| 16  | 200178H1 | RING, Snap .....                                     | 1    |
| 17  | 200176H1 | PLATE, Clutch Back .....                             | 1    |
| 18  | 200174H1 | PLATE ASSEMBLY .....                                 | 13   |
| 19  | 200175H1 | PLATE, Ext. ....                                     | 12   |
| 20  | 200177H1 | PIN, Dowel .....                                     | 1    |
| 21  | 200173H1 | HUB ASSEMBLY (Includes Items 22 thru 25) .....       | 1    |
| 22  | NSS      | HUB .....  | 1    |
| 23  | NSS      | SPRING .....   | 6    |
| 24  | NSS      | RETAINER, Spring .....                               | 1    |
| 25  | NSS      | RETAINER .....                                       | 1    |
| 26  | 200171H1 | RING, Snap .....                                     | 1    |
| 27  | 200169H1 | PISTON, Clutch .....                                 | 1    |
| * 28  | 197304H1 | RING, Seal .....                                     | 1    |
| 29  | 148875H1 | RING, Seal .....                                     | 1    |
| 30  | 200167H1 | RING, Snap .....                                     | 1    |
| 31  | 200168H1 | RING, Seal .....                                     | 1    |
| 32  | 220653H1 | PISTON, Accelerating (replaces 200166H1).....        | 1    |
| 33  | 220652H1 | DISC, Valve (replaces 200165H1) .....                | 1    |
| 34  | 220651H1 | DISC (replaces 200164H1).....                        | 1    |
| * 35  | OR3-34   | RING, Seal .....                                     | 1    |
| 36  | 220649H1 | SHAFT ASSEMBLY (replaces 200181H1) .....             | 1    |
| 37  | 220650H1 | PIN, Dowel (replaces 200163H1) .....                 | 3    |
| 38  | 220651H1 | DISC (replaces 200164H1) .....                       | 1    |
| 39  | 220652H1 | DISC, Valve (replaces 200165H1).....                 | 1    |
| 40  | 220653H1 | PISTON, Accelerating (replaces 200166H1).....        | 1    |
| 41  | 200168H1 | RING, Seal .....                                     | 1    |
| 42  | 200167H1 | RING, Seal .....                                     | 1    |
| 43  | 148875H1 | RING, Seal .....                                     | 1    |
| 44  | 200170H1 | HOUSING, Piston .....                                | 1    |
| 45  | 200172H1 | FINAL HUB ASSEMBLY (Includes Items 15 thru 25) ..... | 1    |
| 46  | 200179H2 | RETAINER .....                                       | 2    |
| 47  | 200180H1 | RING, Snap - Int. ....                               | 1    |
| 48  | 205576H1 | SPACER .....   | 1    |
| 49  | 197229H1 | RACE, Thrust .....                                   | 1    |
| 50  | 197228H1 | BEARING .....  | 1    |
| 51  | 197229H1 | RACE, Thrust .....                                   | 1    |
| 52  | 197246H1 | BEARING, Roller .....                                | 1    |
| 53  | 197259H1 | SPACER .....   | 1    |
| 54  | 197256H1 | GEAR & HUB ASSEMBLY, 28T .....                       | 1    |
| 55  | 197246H1 | BEARING, Roller .....                                | 1    |
| 56  | 197229H1 | RACE, Thrust .....                                   | 1    |
| 57  | 197228H1 | BEARING .....  | 1    |
| 58  | 197229H1 | RACE, Thrust .....                                   | 1    |
| 59  | 187095H1 | RACE, Bearing Inner .....                            | 1    |
| 60  | 116719H1 | RING, Snap .....                                     | 1    |
| * NOTE: All parts marked with an asterisk are part of 197273H1<br>"O" Ring, Seal and Gasket Kit. (See Page 4-4) |          |  |      |

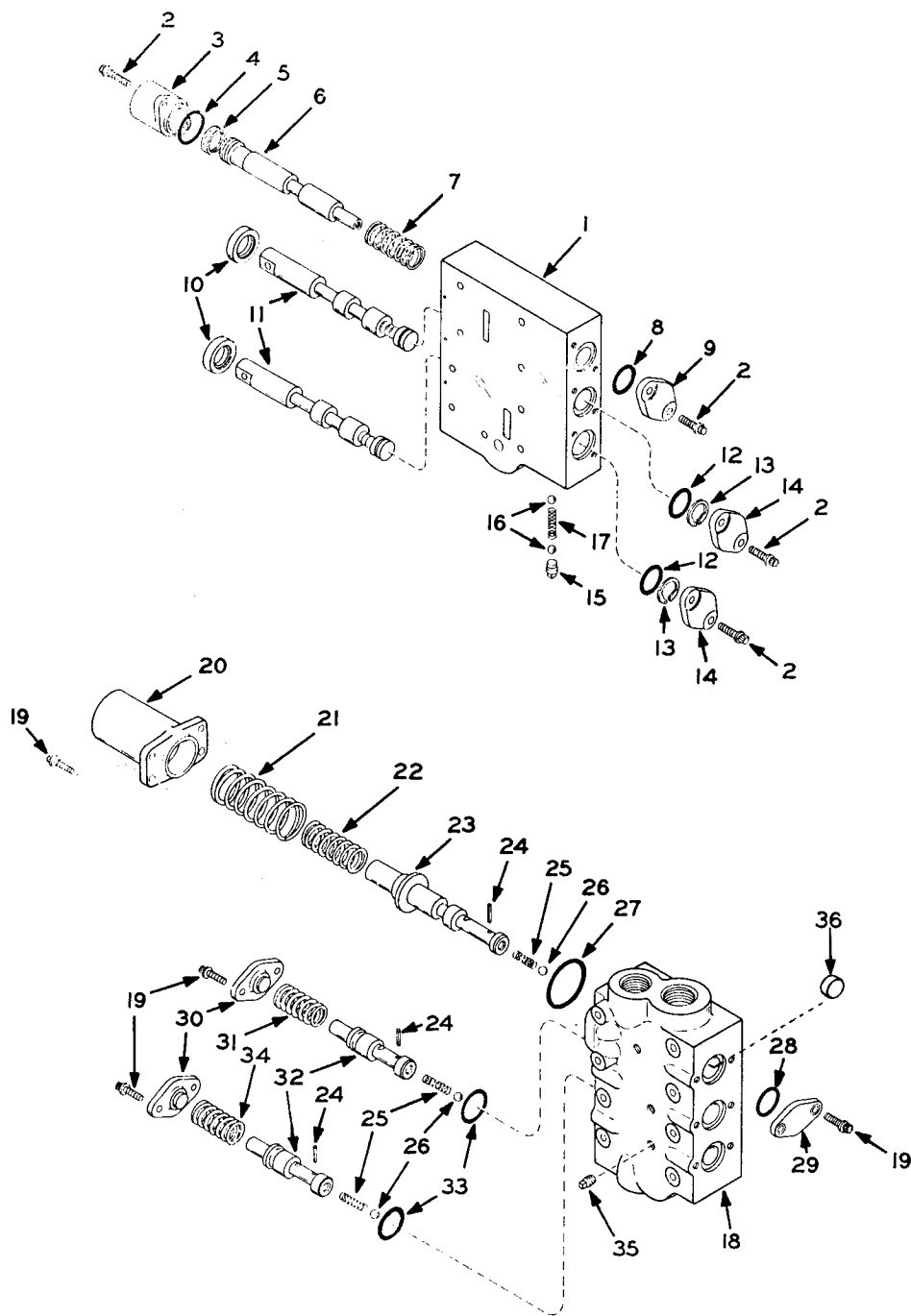


RANGE CLUTCH

RANGE CLUTCH

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
|          | 197237H2 | BASIC CLUTCH PACK (Includes Items 11 thru 47).....         | 1    |
| 1        | 116719H1 | RING, Snap .....   | 1    |
| 2        | 187095H1 | RACE, Bearing Inner .....                                  | 1    |
| 3        | 197250H1 | GEAR, 49T .....  | 1    |
| 4        | 197228H1 | BEARING, Thrust .....                                      | 1    |
| 5        | 197229H1 | RACE, Thrust .....   | 1    |
| 6        | 197230H1 | BEARING, Roller .....                                      | 1    |
| 7        | 197242H1 | GEAR & HUB ASSEMBLY, 45T (p-1500) S/N 21F-02901-03240..... | 1    |
| 7        | 211015H1 | GEAR & HUB ASSEMBLY, 48T (P-1508) S/N 21F-03241 & Up.....  | 1    |
| 8        | 197229H1 | RACE, Thrust .....   | 1    |
| 9        | 197228H1 | BEARING, Thrust .....                                      | 1    |
| 10       | 197229H1 | RACE, Thrust .....   | 1    |
| 11       | 205576H1 | SPACER .....   | 1    |
| 12       | 200180H1 | RING, Snap Internal .....                                  | 1    |
| 13       | 200179H2 | RETAINER .....   | 2    |
|          | 200172H1 | FINAL HUB ASSEMBLY (Includes Items 14 thru 24) .....       | 1    |
| 14       | 164291H1 | RING, Snap Internal .....                                  | 1    |
| 15       | 200178H1 | RING, Snap .....   | 1    |
| 16       | 200176H1 | PLATE, Clutch Back .....                                   | 1    |
| 17       | 200174H1 | PLATE, Assembly .....                                      | 13   |
| 18       | 200175H1 | PLATE, External .....                                      | 12   |
| 19       | 200177H1 | PIN, Dowel .....   | 1    |
| 20       | 200173H1 | HUB ASSEMBLY (Includes Items 21 thru 24) .....             | 1    |
| 21       | NSS      | HUB .....  | 1    |
| 22       | NSS      | SPRING .....   | 6    |
| 23       | NSS      | RETAINER, Spring .....                                     | 1    |
| 24       | NSS      | RETAINER .....   | 1    |
| 25       | 200171H1 | RING, Snap .....   | 1    |
| 26       | 200169H1 | PISTON, Clutch .....                                       | 1    |
| * 27     | 197304H1 | RING, Seal .....   | 1    |
| 28       | 148875H1 | RING, Seal .....   | 1    |
| 29       | 200167H1 | RING, Seal .....   | 1    |
| 30       | 200168H1 | RING, Seal .....   | 1    |
| 31       | 220653H1 | PISTON, Accelerating (replaces 200166H1).....              | 1    |
| 32       | 220652H1 | DISC, Valve (replaces 200165H1).....                       | 1    |
| 33       | 220651H1 | DISC (replaces 200164H1) .....                             | 1    |
| * 34     | OR3-34   | RING, Seal .....   | 1    |
| 35       | 220654H1 | SHAFT ASSEMBLY (replaces 200162H1) .....                   | 1    |
| 36       | 220650H1 | PIN, Dowel (replaces 200163H1) .....                       | 3    |
| 37       | 220651H1 | DISC (replaces 200164H1).....                              | 1    |
| 38       | 220652H1 | DISC, Valve (replaces 200165H1).....                       | 1    |
| 39       | 220653H1 | PISTON (replaces 200166H1).....                            | 1    |
| 40       | 200168H1 | RING, Seal .....   | 1    |
| 41       | 200167H1 | RING, Seal .....   | 1    |
| 42       | 148875H1 | RING, Seal .....   | 1    |
| 43       | 200170H1 | HOUSING, Piston .....                                      | 1    |
| 44       | 200172H1 | FINAL HUB ASSEMBLY (Includes Items 14 thru 24) .....       | 1    |
| 45       | 200179H2 | RETAINER .....   | 2    |
| 46       | 200180H1 | RING, Snap Internal .....                                  | 1    |
| 47       | 205576H1 | SPACER .....   | 1    |
| 48       | 197229H1 | RACE, Thrust .....   | 1    |
| 49       | 197228H1 | BEARING, Thrust .....                                      | 1    |
| 50       | 197229H1 | RACE, Thrust .....   | 1    |
| 51       | 197246H1 | BEARING, Roller .....                                      | 1    |
| 52       | 197245H1 | SPACER .....   | 1    |
| 53       | 197238H1 | GEAR & HUB ASSEMBLY, 26T .....                             | 1    |
| 54       | 197246H1 | BEARING, Roller .....                                      | 1    |
| 55       | 197229H1 | RACE, Thrust .....   | 1    |
| 56       | 197228H1 | BEARING .....  | 1    |
| 57       | 197248H1 | GEAR, 27T .....  | 1    |
| 58       | 187095H1 | RACE, Bearing Inner .....                                  | 1    |
| 59       | 116719H1 | RING, Snap .....   | 1    |

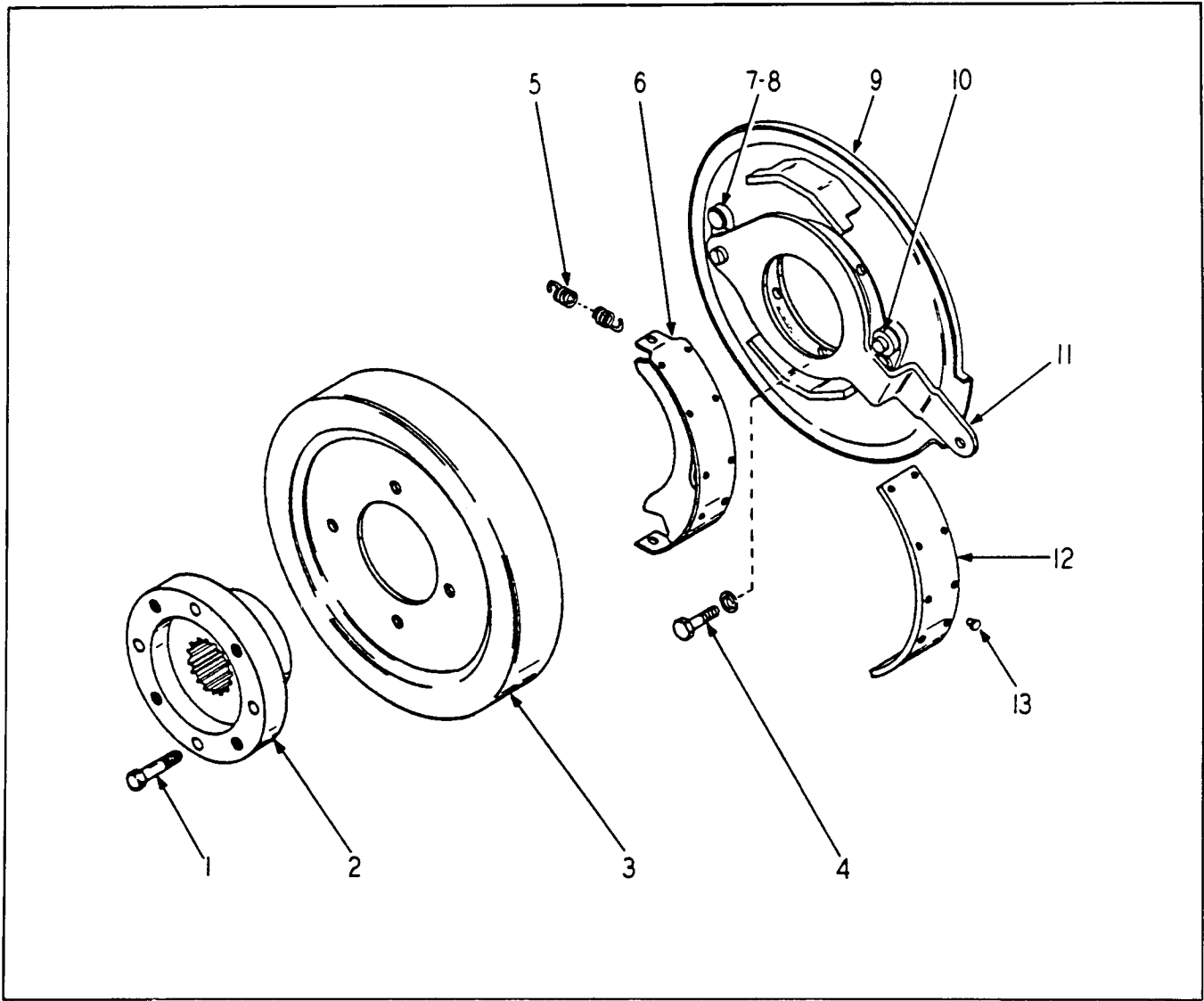
\* NOTE: All parts marked with an asterisk are part of 197273H1 "O" Ring, Seal and Gasket Kit. (See Page 4-4)



DIRECTIONAL VALVE & PRESSURE REGULATOR VALVE

DIRECTIONAL VALVE & PRESSURE REGULATOR VALVE

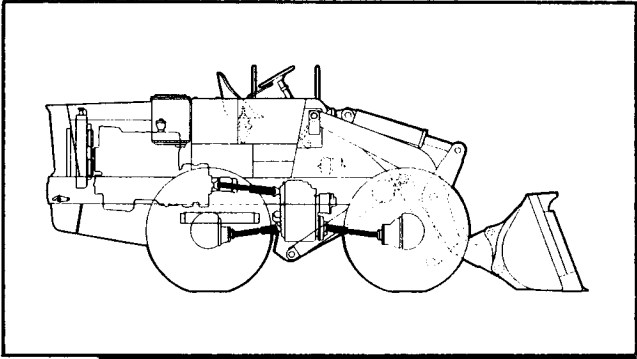
| ITEM NO.  | PART NO. | PART NAME   | Qty. |
|---|----------|---|------|
|   | 197284H1 | VALVE, Directional (Includes Items 1 thru 17) .....         | 1    |
| 1   | 197286H1 | BODY .....  | 1    |
| 2   | 197292H1 | SCREW, Cap .....  | 8    |
| 3   | 197296H1 | CAP, Air Cylinder .....                                     | 1    |
| * 4   | OR4-25   | "O" RING .....  | 1    |
| * 5   | 197297H1 | RING, Seal, Disconnect Return .....                         | 1    |
| 6   | 197294H1 | SPOOL, Disconnect .....                                     | 1    |
| 7   | 197298H1 | SPRING, Disconnect Return .....                             | 1    |
| * 8   | OR4-15   | "O" RING .....  | 1    |
| 9   | 197269H1 | CAP, Disconnect .....                                       | 1    |
| * 10  | 177431H1 | SEAL, Oil .....   | 2    |
| 11  | 197287H1 | SPOOL .....   | 2    |
| * 12  | OR4-19   | "O" RING .....  | 2    |
| 13  | 164778H1 | RING, Snap .....  | 2    |
| 14  | 197291H1 | CAP, Spools .....   | 2    |
| 15  | P - 14   | PLUG .....  | 1    |
| 16  | 131526H1 | BALL .....  | 4    |
| 17  | 197289H1 | SPRING .....  | 3    |
| PRESSURE REGULATOR VALVE  |          |   |      |
|   | 197301H1 | VALVE, Pressure Regulator (Includes Items 18 thru 35) ..... | 1    |
| 18  | 197303H1 | BODY .....  | 1    |
| 19  | 197292H1 | SCREW, Cap .....  | 14   |
| 20  | 197311H1 | CAP, Spring Retainer .....                                  | 1    |
| 21  | 197309H1 | SPRING, Main Pressure O. D. ....                            | 1    |
| 22  | 197308H1 | SPRING, Main Pressure I. D. ....                            | 1    |
| 23  | 197305H1 | SPOOL, Main Pressure .....                                  | 1    |
| 24  | 197307H1 | PIN, Roll .....   | 3    |
| 25  | 197306H1 | SPRING .....  | 3    |
| 26  | 200074H1 | BALL .....  | 3    |
| * 27  | OR3-1    | "O" RING .....  | 1    |
| * 28  | OR4-15   | "O" RING .....  | 3    |
| 29  | 197315H1 | CAP .....   | 3    |
| 30  | 197313H1 | CAP .....   | 2    |
| 31  | 197318H1 | SPRING, T. C. Pressure .....                                | 1    |
| 32  | 197317H1 | SPOOL, T. C. & Lube .....                                   | 2    |
| * 33  | OR4-18   | "O" RING .....  | 2    |
| 34  | 197319H1 | SPRING .....  | 1    |
| 35  | P - 12   | PLUG, Pipe .....  | 3    |
| 36  | 210166H1 | SLUG - S/N 21FH-2901 & Up .....                             | 1    |
| * NOTE: All parts marked with an asterisk are part of 204061H1 "O" Ring, Seal and Gasket Kit. |          |   |      |



PARKING BRAKE

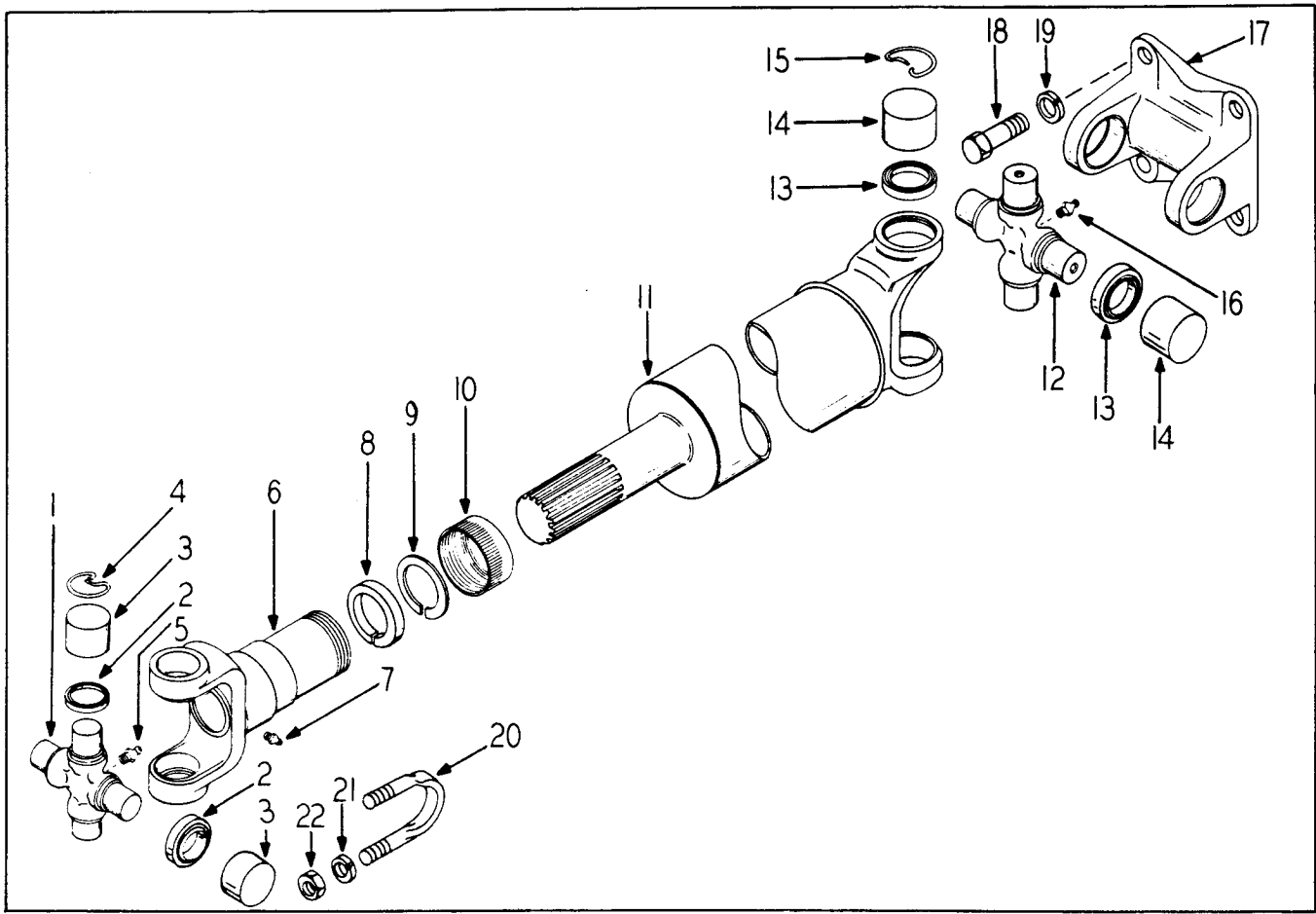
| ITEM NO. | PART NO. | PART NAME                                   | Qty. |
|----------|----------|---|------|
| 1        | 130536H1 | BRAKE, Shoe Type (Includes Items 5 thru 13) | 1    |
|          | S-1614   | SCREW, Cap                                  | 4    |
|          | WL-16    | WASHER, Lock                                | 4    |
|          | H - 16   | NUT   | 4    |
| 2        | 151804H1 | FLANGE                                      | 1    |
| 3        | 130539H1 | DRUM  | 1    |
| 4        | S-266    | SCREW, Cap                                  | 4    |
|          | WL-16    | WASHER, Lock                                | 4    |
| 5        | 139038H1 | SPRING                                      | 2    |
|          | 139037H1 | BRAKE SHOE SET (Includes Items 6, 12 & 13)  | 2    |
| 6        | NSS      | SHOE  | 2    |
| 7        | 139342H1 | PAWL  | 2    |
| 8        | 139343H1 | RIVET                                       | 2    |
| 9        | 139035H1 | PLATE ASSEMBLY (Includes Items 7 & 8)       | 1    |
| 10       | 139040H1 | ROLLER                                      | 1    |
| 11       | 139039H1 | LEVER                                       | 1    |
| 12       | NSS      | LINING                                      | 2    |
| 13       | NSS      | RIVET                                       | 2    |
|          |          | } Brake Plate Attach.                       |      |
|          |          | } Order #139037H1 Brake Shoe Set            | 20   |

**DRIVE SHAFT**



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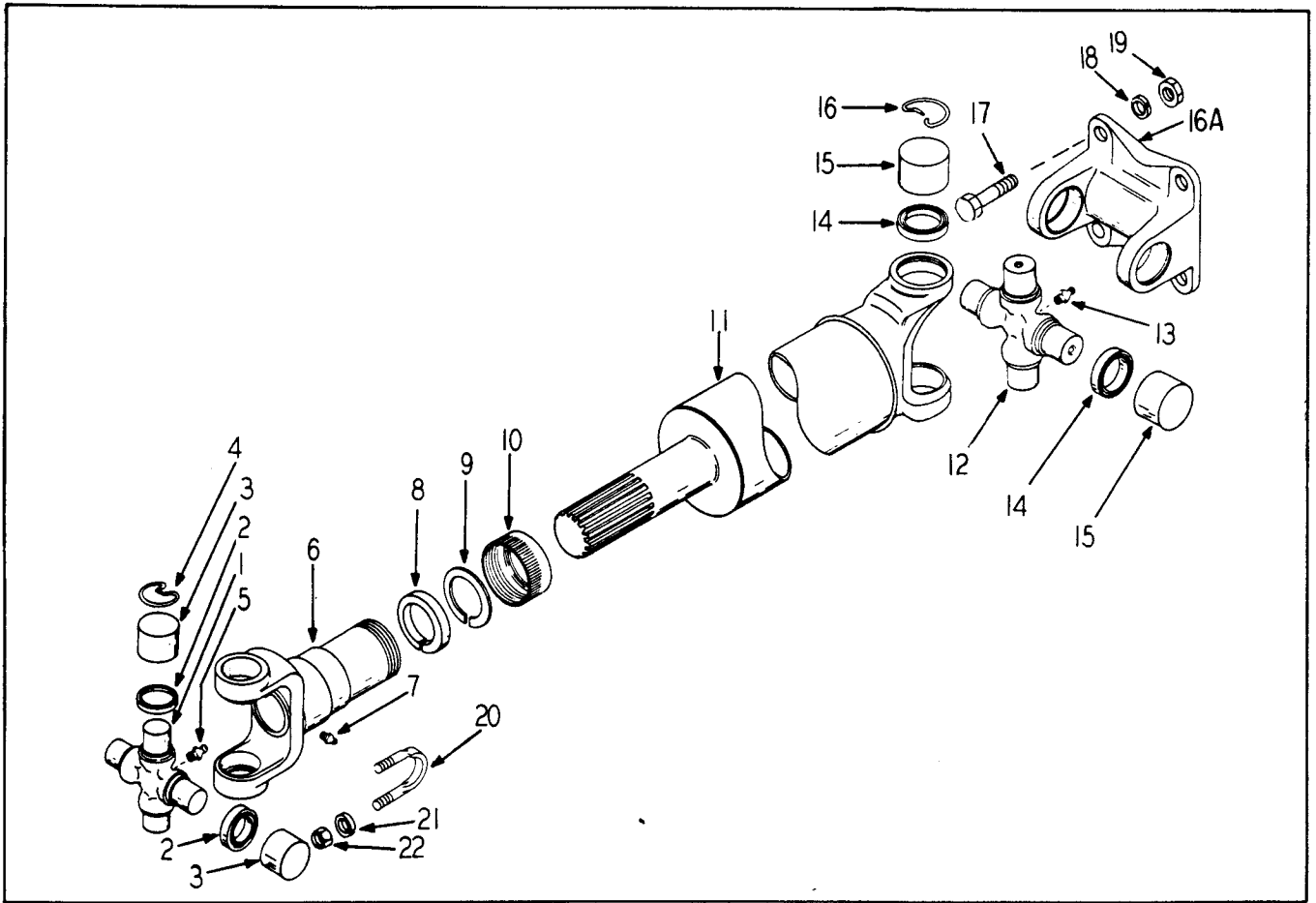
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| SHAFT, DRIVE, LOWER REAR .....  | 5-3         |
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DRIVE SHAFT (Lower Front)

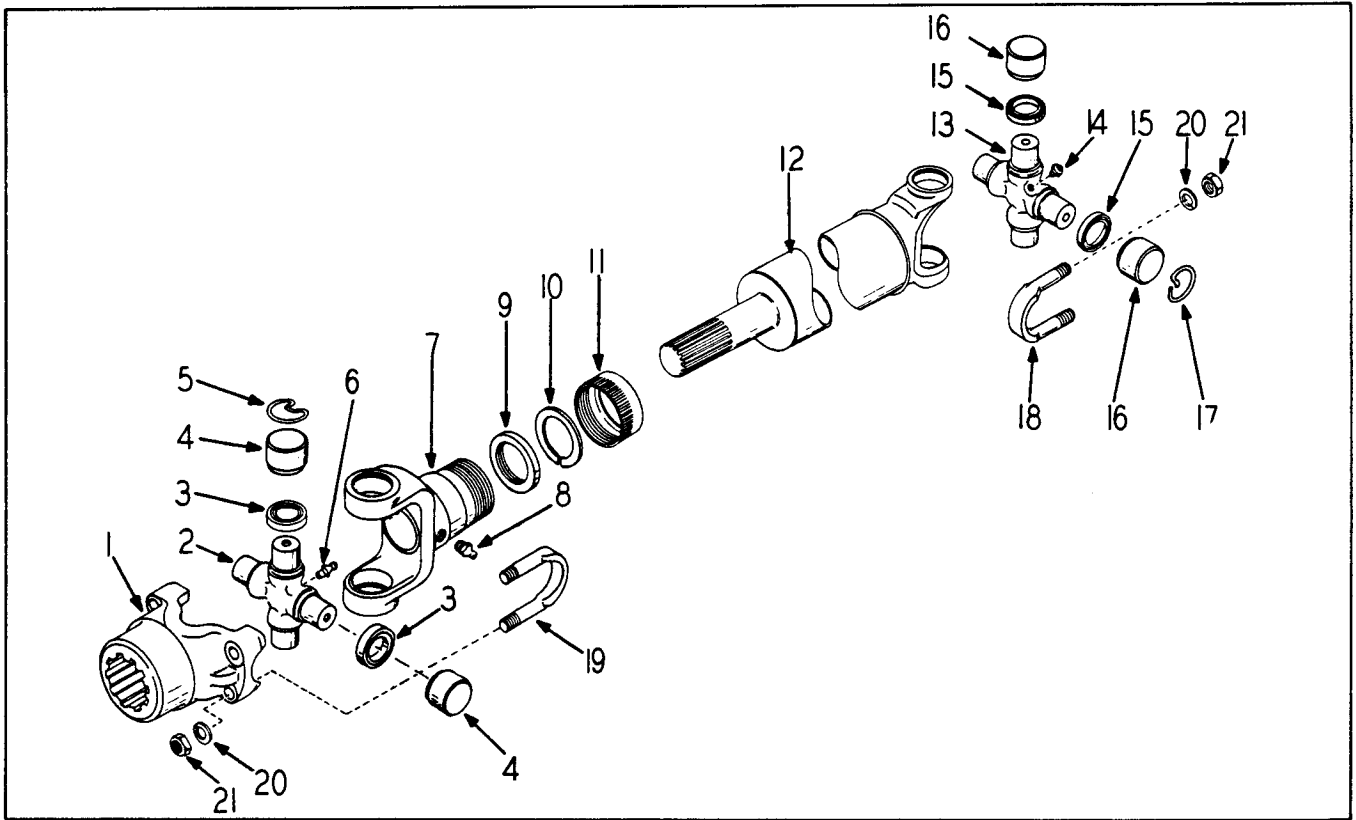
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 204310H1 | DRIVE SHAFT, Lower Front .....                                | 1    |
|          | 154073H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 1 thru 5) .....    | 1    |
| 1        |          | JOURNAL CROSS ASSEMBLY .....                                  | 1    |
| 2        | 154075H1 | GASKET .....  | 4    |
| 3        |          | BEARING ASSEMBLY .....  | 4    |
| 4        | 154074H1 | RING, Retaining .....   | 4    |
| 5        | 118493H1 | FITTING, Grease .....   | 1    |
|          | 200544H1 | SLEEVE YOKE & SHAFT ASSEMBLY (Includes Items 6 thru 11) ..... | 1    |
| 6        |          | SLEEVE, Yoke Assembly .....                                   | 1    |
| 7        | 118491H1 | FITTING, Grease .....   | 1    |
| 8        | 154078H1 | WASHER, Cork .....  | 1    |
| 9        | 154077H1 | WASHER, Steel .....   | 1    |
|          | 198716H1 | PLUG, Sleeve Yoke .....                                       | 1    |
| 10       | 154076H1 | CAP, Dust .....   | 1    |
| 11       |          | SHAFT ASSEMBLY .....  | 1    |
|          | 154073H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 12 thru 16) .....  | 1    |
| 12       |          | JOURNAL CROSS ASSEMBLY .....                                  | 1    |
| 13       | 154075H1 | GASKET .....  | 4    |
| 14       |          | BEARING ASSEMBLY .....  | 4    |
| 15       | 154074H1 | RING, Retaining .....   | 4    |
| 16       | 118493H1 | FITTING, Grease .....   | 1    |
| 17       | 158031H1 | YOKE, Flange .....  | 1    |
| 18       | S-1811   | SCREW, Cap .....  | 4    |
| 19       | WL-18    | WASHER, Lock .....  | 4    |
| 20       | 151803H1 | BOLT, "U" .....   | 2    |
| 21       | WL-17    | WASHER, Lock .....  | 4    |
| 22       | H - 17   | NUT .....   | 4    |





DRIVE SHAFT (Lower Rear)

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 204311H1 | DRIVE SHAFT, Lower Rear .....                                 | 1    |
|          | 154073H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 1 thru 5) .....    | 1    |
| 1        |          | JOURNAL CROSS ASSEMBLY .....                                  | 1    |
| 2        | 154075H1 | GASKET .....  | 4    |
| 3        |          | BEARING ASSEMBLY .....  | 4    |
| 4        | 154074H1 | RING, Retaining .....   | 4    |
| 5        | 118493H1 | FITTING, Grease .....   | 1    |
|          | 205222H1 | SLEEVE YOKE & SHAFT ASSEMBLY (Includes Items 6 thru 11) ..... | 1    |
| 6        |          | SLEEVE YOKE ASSEMBLY .....                                    | 1    |
| 7        | 118491H1 | FITTING, Grease .....   | 1    |
| 8        | 154078H1 | WASHER, Cork .....  | 1    |
| 9        | 154077H1 | WASHER, Steel .....   | 1    |
|          | 198716H1 | PLUG, Sleeve Yoke .....                                       | 1    |
| 10       | 154076H1 | CAP, Dust .....   | 1    |
| 11       |          | SHAFT ASSEMBLY .....  | 1    |
|          | 154073H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 12 thru 16) .....  | 1    |
| 12       |          | JOURNAL CROSS ASSEMBLY .....                                  | 1    |
| 13       | 118493H1 | FITTING, Grease .....   | 1    |
| 14       | 154075H1 | GASKET .....  | 4    |
| 15       |          | BEARING ASSEMBLY .....  | 4    |
| 16       | 154074H1 | RING, Retaining .....   | 4    |
| 16A      | 158031H1 | FLANGE, Yoke .....  | 1    |
| 17       | S-1810   | SCREW, Cap .....  | 4    |
| 18       | WL-18    | WASHER, Lock .....  | 4    |
| 19       | H - 38   | NUT .....   | 4    |
| 20       | 151803H1 | BOLT, "U" .....   | 2    |
| 21       | WL-17    | WASHER, Lock .....  | 4    |
| 22       | H - 17   | NUT .....   | 4    |

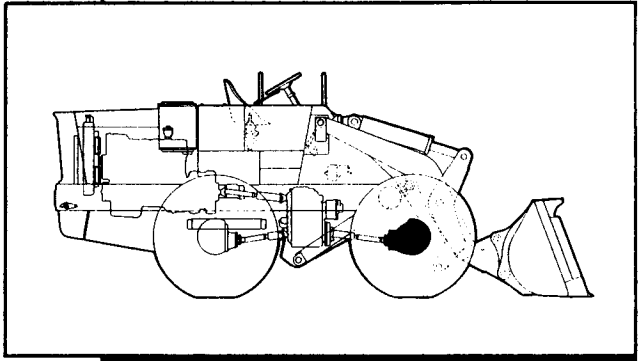


DRIVE SHAFT (Upper Rear)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 204309H1 | DRIVE SHAFT ASSY, Upper Rear (IH Engine).....  | 1    |
|          | 207197H1 | DRIVE SHAFT ASSY, Upper Rear (Cummins Engine).....                                   | 1    |
|          | 207198H1 | DRIVE SHAFT ASSY, Upper Rear (Detroit Diesel Engine).....                            | 1    |
|          | 154080H1 | YOKE .....   | 1    |
| 2        | 154081H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 2 thru 6) .....                           | 1    |
|          |          | JOURNAL CROSS ASSEMBLY .....   | 1    |
| 3        | 154083H1 | GASKET .....   | 4    |
| 4        |          | BEARING ASSEMBLY .....   | 4    |
| 5        | 154082H1 | RING, Retainer .....   | 4    |
| 6        | 118493H1 | FITTING, Grease .....  | 1    |
|          | 207161H1 | SLEEVE YOKE & SHAFT ASSEMBLY (I. H. Engine) (Includes Items 7 thru 12) .....         | 1    |
| 7        |          | SLEEVE YOKE ASSEMBLY .....   | 1    |
| 8        | 118491H1 | FITTING, Grease .....  | 1    |
| 9        | 158544H1 | WASHER, Cork .....   | 1    |
| 10       | 154085H1 | WASHER, Steel .....  | 1    |
|          | 169515H1 | PLUG, Sleeve Yoke .....  | 1    |
|          | 208970H1 | SLEEVE YOKE & SHAFT ASSEMBLY, Cummins Engine (Includes Items 7 thru 12) .....        | 1    |
|          | 208971H1 | SLEEVE YOKE & SHAFT ASSEMBLY, Detroit Diesel Engine (Includes Items 7 thru 12) ..... | 1    |
| 11       | 154084H1 | CAP, Dust .....  | 1    |
| 12       |          | SHAFT ASSEMBLY .....   | 1    |
|          | 154081H1 | JOURNAL & BEARING ASSEMBLY (Includes Items 13 thru 17) .....                         | 1    |
| 13       |          | JOURNAL CROSS ASSEMBLY .....   | 1    |
| 14       | 118493H1 | FITTING, Grease .....  | 1    |
| 15       | 154083H1 | GASKET .....   | 4    |
| 16       |          | BEARING ASSEMBLY .....   | 4    |
| 17       | 154082H1 | RING, Retainer .....   | 4    |
| 18       | 151799H1 | BOLT, "U" .....  | 2    |
| 19       | 151799H1 | BOLT, "U" .....  | 2    |
| 20       | WL-16    | WASHER, Lock .....   | 8    |
| 21       | H - 16   | NUT .....  | 8    |

# SECTION 6

## SOLID AXLE

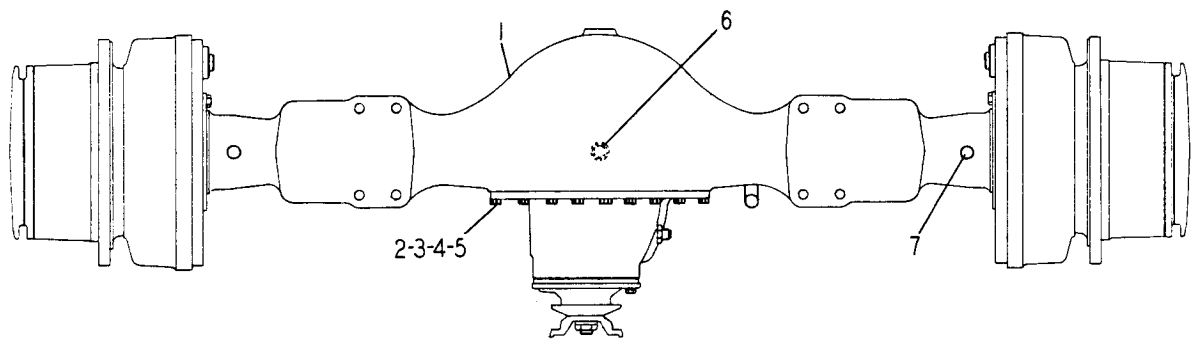


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| HOUSING .....      | 6-3         |
| SHAFT & HUB .....  | 6-7         |

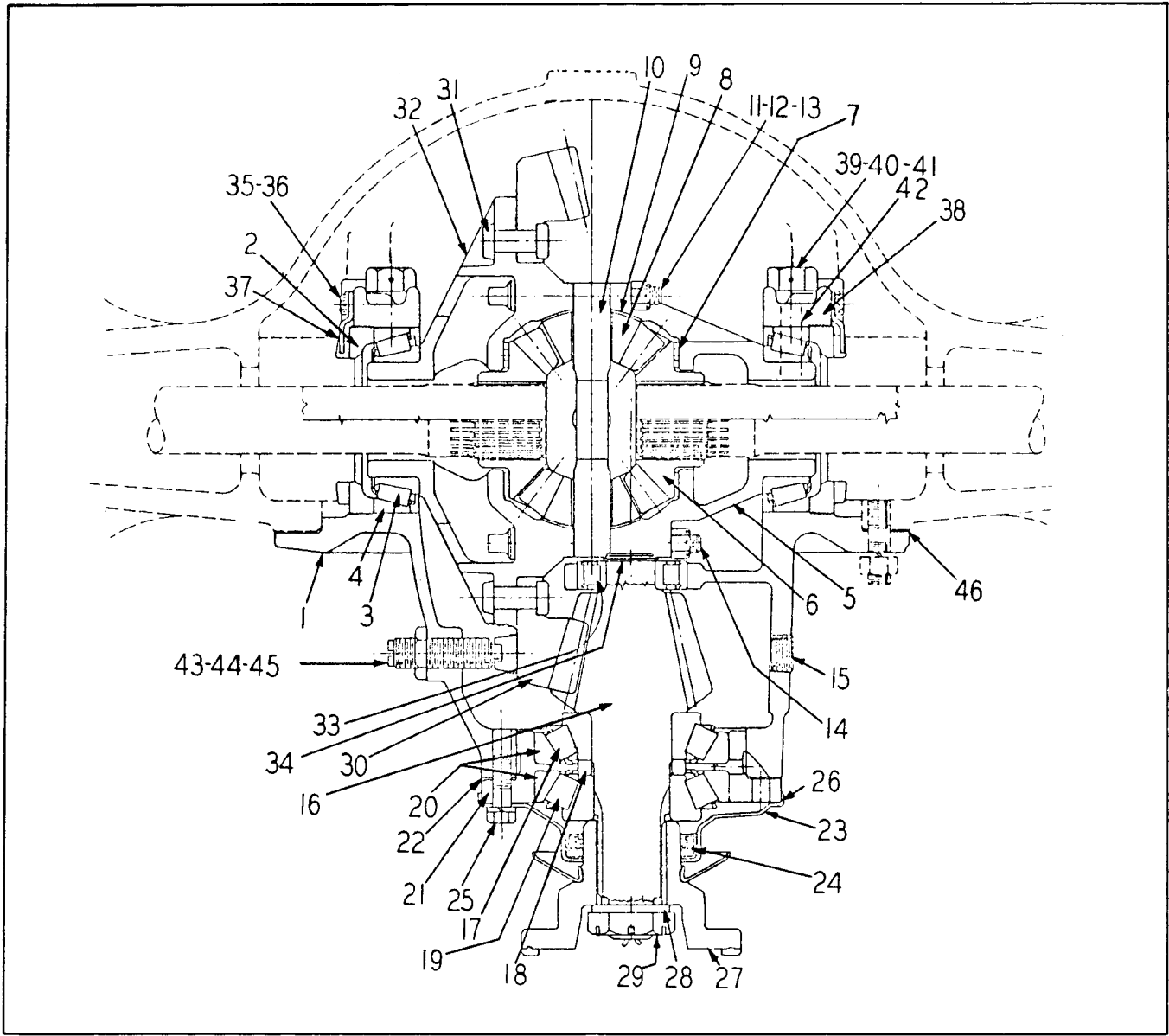
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NOTES



SOLID AXLE-HOUSING

| ITEM NO. | PART NO.             | PART NAME  | Qty. |                      |  |                     |  |
|----------|----------------------|--|------|----------------------|--|---------------------|--|
|          | 204197H1             | FRONT DRIVE AXLE (PR-204-HX12) .....   | 1    |                      |  |                     |  |
| 1        | 175502H1             | HOUSING, Includes Item 6 .....   | 1    |                      |  |                     |  |
| 2        | 132783H1             | STUD, Carrier to Housing - Short .....   | 10   |                      |  |                     |  |
| 3        | 214460H1             | STUD, Carrier to Housing - Long (Replaces 135993H1) .....  | 4    |                      |  |                     |  |
| 4        | WL-110               | WASHER, Lock .....   | 14   |                      |  |                     |  |
| 5        | H-110                | NUT .....  | 14   |                      |  |                     |  |
| 6        | P-220                | PLUG, Oil Drain .....  | 1    |                      |  |                     |  |
| 7        | 152127H1             | OIL BREATHER, Axle Housing .....   | 3    |                      |  |                     |  |
|          |                      | <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <table style="border: none;"> <tr> <td style="font-size: 2em;">}</td> <td>Replaced by 141843H1</td> </tr> <tr> <td></td> <td>Nuts on later units</td> </tr> </table> </div> </div> | }    | Replaced by 141843H1 |  | Nuts on later units |  |
| }        | Replaced by 141843H1 |  |      |                      |  |                     |  |
|          | Nuts on later units  |  |      |                      |  |                     |  |



SOLID AXLE-DIFFERENTIAL

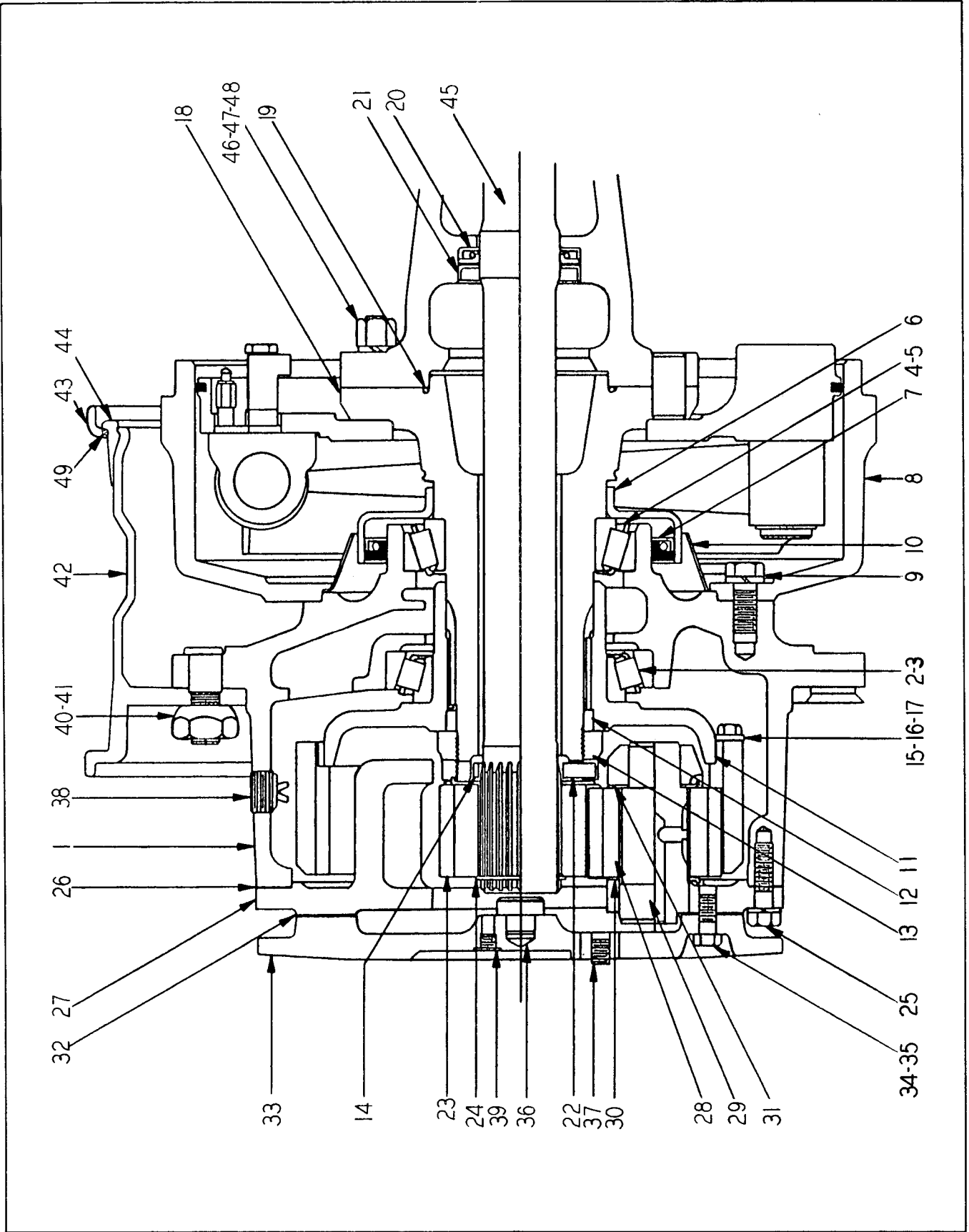
| ITEM NO.                      | PART NO. | PART NAME   | Qty. |
|-------------------------------|----------|---|------|
|                               | 218247H1 | DIFFERENTIAL CARRIER ASSEMBLY (Replaces 175486H1) .....   | 1    |
|                               | 136296H1 | DIFFERENTIAL CASE ASSEMBLY, Includes Items 5 and 32 .....                                       | 1    |
|                               | 136294H1 | DIFFERENTIAL & CONE ASSEMBLY, Includes 136296H1 and Items 3 & 6 thru 14 .....                   | 1    |
|                               | 205039H1 | GEAR, Pinion and Bearing Assembly, Includes Items 16 and 30 (Replaces 137000H1) .....           | 1    |
| 1                             | 216400H1 | DIFFERENTIAL CARRIER & CAP ASSEMBLY, Includes Items 38, 40, 41 and 42 (Replaces 132913H1) ..... | 1    |
| 2                             | 132912H1 | RING, Differential Bearing Adjusting .....  | 2    |
| 3                             | 132863H1 | CONE, Differential Bearing .....  | 2    |
| 4                             | 132862H1 | CUP, Differential Bearing .....   | 2    |
| 5                             |          | CASE, Differential (Plain Half) Order 136296H1 .....  | 1    |
| 6                             | 132911H1 | GEAR, Differential Side .....   | 2    |
| 7                             | 132892H1 | WASHER, Thrust Differential Side Gear .....   | 2    |
| (Continued on following page) |          |   |      |

SOLID AXLE-DIFFERENTIAL (Continued)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 8        | 132910H1 | PINION, Differential   | 4    |
| 9        | 132893H1 | WASHER, Thrust Differential Pinion   | 4    |
| 10       | 132929H1 | SPIDER, Differential   | 1    |
| 11       | 136276H1 | BOLT, Case Differential - Short  | 4    |
| 12       | H - 78   | NUT, Case Bolt   | 12   |
| 13       | LW-1612  | LOCKWIRE   | 4    |
| 14       | 136275H1 | BOLT, Case Differential - Long   | 8    |
| 15       | P-212    | PLUG, Filler and Oil Level Hole  | 1    |
| 16       |          | DRIVE PINION, Order Gear & Pinion Assembly 205039H1  | 1    |
|          | 136292H1 | PINION FORWARD BEARING CAGE, Bearing and Spacer Assembly, Includes Items 17, 18, 19, 21 and 26 | 1    |
| 17       | 136299H1 | CONE, Inner  | 1    |
| 18       | 136278H1 | SPACER - .220  | AR   |
|          | 136279H1 | SPACER - .221  | AR   |
|          | 136280H1 | SPACER - .222  | AR   |
|          | 136281H1 | SPACER - .223  | AR   |
|          | 136282H1 | SPACER - .224  | AR   |
|          | 136283H1 | SPACER - .225  | AR   |
|          | 136284H1 | SPACER - .231  | AR   |
|          | 136285H1 | SPACER - .237  | AR   |
|          | 136286H1 | SPACER - .243  | AR   |
|          | 136287H1 | SPACER - .249  | AR   |
|          | 136288H1 | SPACER - .255  | AR   |
| 19       | 132864H1 | CONE, Outer  | 1    |
| 20       | 132866H1 | CUP  | 2    |
| 21       | 136291H1 | PINION FORWARD, Bearing Cage & Cup Assembly (Includes Item 20)                                 | 1    |
| 22       | 132902H1 | SHIM - .005  | 1    |
|          | 132903H1 | SHIM - .010  | 3    |
|          | 132901H1 | SHIM - .003  | 1    |
| 23       | 136297H1 | COVER & OIL SEAL ASSEMBLY, Includes Item 24  | 1    |
| 24       | 136277H1 | OIL SEAL ASSEMBLY  | 1    |
| 25       | S-2812-8 | CAPSCREW, Forward Bearing Cage   | 8    |
| 26       | 137058H1 | GASKET, Pinion Bearing Cage & Cover  | 1    |
| 27       | 175501H1 | YOKE & SLINGER ASSEMBLY  | 1    |
| 28       | 132894H1 | WASHER   | 1    |
| 29       | 117559H1 | NUT (Replaces 132885H1)  | 1    |
|          | CP-418   | COTTER   | 1    |
| 30       |          | DRIVE GEAR, Order Gear & Pinion Assembly 205039H1  | 1    |
| 31       | 132871H1 | RIVET, Drive Gear to Case Differential Flange Half   | 12   |
| 32       |          | CASE DIFFERENTIAL FLANGE HALF, Order 136296H1  | 1    |
| 33       | 137001H1 | BEARING, Drive Pinion Rear   | 1    |
| 34       | 136999H1 | LOCK RING, Bearing Drive Pinion Rear   | 1    |
| * 35     | 132780H1 | SCREW, Cap, Ring Lock  | 4    |
| * 36     | LW-166   | LOCKWIRE, Bearing Adj.   | 2    |
| * 37     | 132900H1 | LOCK, Bearing Adj. Ring  | 2    |
| 38       |          | CAP, Bearing - Order Item 1  | 2    |
| 39       | LW-1615  | LOCKWIRE, Bearing Cap Capscrew   | 2    |
| 40       | 132876H1 | CAPSCREW, Bearing Cap  | 4    |
| 41       | 161368H1 | WASHER   | 4    |
| 42       | 132793H1 | DOWEL, Bearing Cap   | 4    |
| 43       | 132804H1 | BLOCK, Thrust  | 1    |
| 44       | 132787H1 | NUT, Thrust Block Adj. Screw   | 1    |
| 45       | 132786H1 | SCREW, Thrust Block Adj.   | 1    |
| 46       | 132908H1 | GASKET, Carrier to Housing   | 1    |

Use as required in combination

\*NOTE: Items 35, 36 & 37 have been replaced by 179094H1 Cotter Pin. Check your axle before ordering these parts.

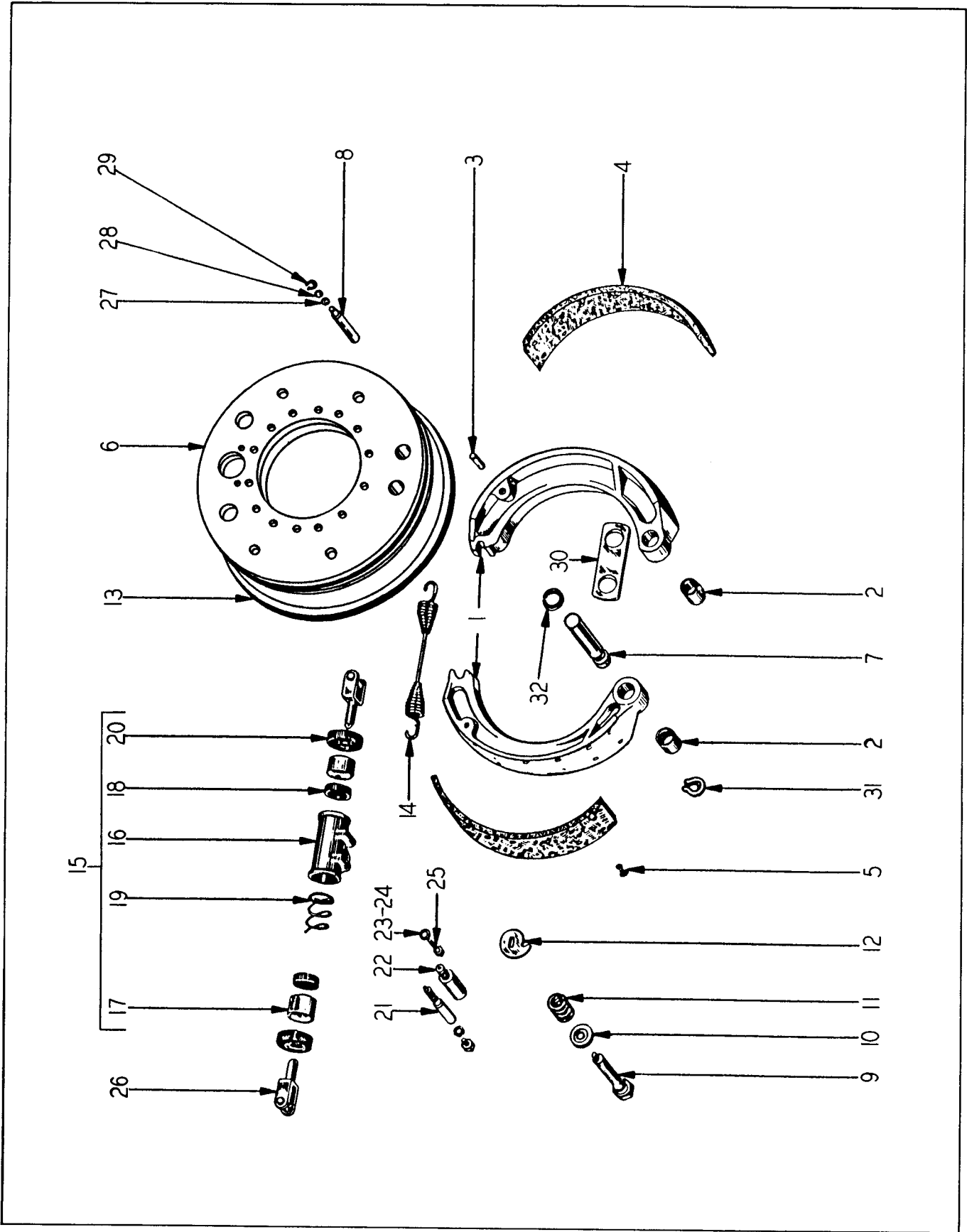


SOLID AXLE - SHAFT AND HUB



SOLID AXLE-SHAFT & HUB

| ITEM NO. | PART NO.  | PART NAME   | Qty.                    |
|----------|-----------|---|-------------------------|
| 1        | 175508H1  | HUB & CUP ASSEMBLY, Includes Items 2 & 4                    | 2                       |
| 2        | 136032H1  | CUP, Hub Bearing - Outer                                    | 2                       |
| 3        | 136031H1  | CONE, Hub Bearing - Outer                                   | 2                       |
| 4        | 136030H1  | CUP, Hub Bearing - Inner                                    | 2                       |
| 5        | 109309H1  | CONE, Hub Bearing - Inner                                   | 2                       |
| 6        | 138396H1  | RETAINER, Hub Oil Seal Assembly, Includes Item 7            | 2                       |
| 7        | 135999H1  | OIL SEAL, Hub Bearing                                       | 2                       |
| 8        | 149448H1  | BRAKE DRUM  | 2                       |
| 9        | 152163H1  | CAPSCREW, Drum to Hub                                       | 20                      |
|          | LW-1650   | LOCKWIRE  | 2                       |
| 10       | 136029H1  | OIL SLINGER   | 2                       |
| 11       | 136026H1  | HUB, Planetary Ring Gear - Includes Item 12                 | 2                       |
| 12       |           | SLEEVE, Planetary Ring Gear Hub - Order Item 11             | 2                       |
| 13       | 136004H1  | NUT, Hub Planetary Ring Gear                                | 2                       |
| 14       | 136013H1  | LOCK, Hub Nut   | 4                       |
| 15       | 136023H1  | GEAR, Planetary Ring  | 2                       |
| 16       | S-266-D-8 | CAPSCREW, Planetary Ring Gear                               | 16                      |
| 17       | 136003H1  | LOCK, Planetary Ring Gear                                   | 8                       |
|          | LW-166    | LOCKWIRE, Planetary Ring Gear Capscrew                      | 8                       |
| 18       | 149447H1  | SPINDLE, Wheel Bearing                                      | 2                       |
| 19       | OR3-26    | SEAL, Spindle to Housing                                    | 2                       |
| 20       | 136002H1  | OIL SEAL, Housing Axle Shaft                                | 2                       |
| 21       | 136001H1  | RETAINER, Oil Seal  | 2                       |
| 22       | 136005H1  | WASHER, Sun Gear  | 2                       |
| 23       | 136024H1  | SUN GEAR, Planetary   | 2                       |
| 24       | 136239H1  | SNAP RING   | 2                       |
| 25       | 132776H1  | CAPSCREW, Hub to Planetary Spider                           | 28                      |
|          | WL-18     | LOCKWASHER  | 28                      |
| 26       | 183214H1  | GASKET, Spider to Hub                                       | 2                       |
| 27       | 175506H1  | SPIDER, Planetary Gear                                      | 2                       |
| 28       | 136025H1  | PINION, Planetary   | 6                       |
| 29       | 204067H1  | SHAFT, Pinion Gear (Replaces 136002H1)                      | 6                       |
| 30       | 136006H1  | WASHER, Planetary Pinion Thrust - Outer                     | 6                       |
| 31       | 198031H1  | WASHER, Planetary Pinion Thrust - Inner (Replaces 136007H1) | 6                       |
| 32       | 136016H1  | GASKET, Planetary Gear Spider Cover                         | 2                       |
| 33       | 144024H1  | COVER, Planetary Gear Spider - Includes Item 36             | 2                       |
| 34       | S-279-8   | CAPSCREW, Cover   | 16                      |
| 35       | WL-17     | WASHER, Lock  | 16                      |
| 36       | 136012H1  | BUTTON, Thrust  | 2                       |
| 37       | P - 24    | PLUG, Planetary Drive Oil Filler                            | 2                       |
| 38       | 136009H1  | PLUG, Planetary Drive Oil Drain                             | 2                       |
| 39       | P - 32    | PLUG, Gear Spider Cover                                     | 2                       |
| 40       | 135996H1  | STUD, Wheel   | 24                      |
| 41       | 209564H1  | NUT, Cap (Replaces 102430H1)                                | 24                      |
| 42       | 150415H1  | WHEEL   | 2                       |
| 43       | 138546H1  | FLANGE  | 2                       |
| 44       | 138547H1  | LOCKRING  | 2                       |
| 45       | 175509H1  | SHAFT, Axle Drive   | 2                       |
| 46       | S-11028-8 | BOLT, Spindle to Housing                                    | 28                      |
| 47       | 158183H1  | NUT   | 28                      |
| 48       | 141842H1  | LOCKWASHER  | 28                      |
| 49       | 138548H1  | "O" RING  | 2                       |
|          |           | VALVE - Rim #TF-623   | } Buy From Local Dealer |
|          |           | TIRE - 16:00 x 24-12 Ply                                    |                         |
|          |           | TUBELESS  |                         |



SOLID AXLE - BRAKE

SOLID AXLE - BRAKE

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 152871H1 | BRAKE SHOE & LINING ASSEMBLY, Includes Items 2, 3, 4 and 5 ...                           | 4    |
| 2        | 149994H1 | BUSHING .....  | 4    |
| 3        | 149995H1 | PIN, Stop .....  | 4    |
| 4        | 153322H2 | LINING (Replaces 153322H1).....  | 4    |
| 5        | 121083H1 | RIVET, Lining .....  | 64   |
| 6        | 175510H1 | SPIDER BRAKE SEAL, Pins & Adj. Cam Assembly (Includes Items 7 thru 13 and Item 32) ..... | 2    |
| 7        | 157457H1 | PIN, Brake Anchor .....  | 4    |
| 8        | 150177H1 | PIN, Brake Shoe Guide .....  | 8    |
| 9        | 150093H1 | PIN, Brake Shoe Adj. Cam (Includes Item 10) .....  | 4    |
| 10       | 121725H1 | WASHER, Brake Shoe Adj. Cam .....  | 4    |
| 11       | 150179H1 | SPRING, Brake Shoe Adj. Cam .....  | 4    |
| 12       | 116278H1 | CAM, Brake Shoe Adj. ....  | 4    |
| 13       | 150180H1 | SEAL, Brake Drum .....   | 2    |
| 14       | 150102H1 | SPRING, Brake Shoe Return .....  | 2    |
| 15       | 151963H1 | WHEEL CYLINDER ASSEMBLY, Includes Items 16 thru 20 (Replaces 105750H1) .....             | 2    |
| 16       |          | CASTING, Cylinder (Order Item 15) .....  | 2    |
| 17       | 109538H1 | PISTON .....   | 4    |
| 18       | 109539H1 | CUP .....  | 4    |
| 19       | 109540H1 | SPRING .....   | 2    |
| 20       | 109541H1 | BOOT .....   | 4    |
| 21       | 118418H1 | BLEEDERSCREW, Wheel Cylinder .....   | 2    |
| 22       | 132830H1 | INLET CONNECTION .....   | 2    |
| 23       | HA-884   | GASKET, Inlet Connection .....   | 2    |
| 24       | HA-883   | GASKET, Inlet Connection .....   | 2    |
| 25       | 107589H1 | BOLT, Inlet Connection .....   | 2    |
| 26       | 107591H1 | LINK, Connecting .....   | 4    |
| 27       | 150099H1 | WASHER .....   | 16   |
| 28       | 150100H1 | WASHER, Spring .....   | 8    |
| 29       | 150101H1 | "C" WASHER .....   | 8    |
| 30       | 175511H1 | LINK, Anchor Pin .....   | 2    |
| 31       | 124242H1 | "C" WASHER, Anchor Pin .....   | 4    |
| 32       | 157451H1 | SNAP RING, Anchor Pin .....  | 4    |
|          | S-269-8  | CAPSCREW .....   | 4    |
|          | WL-16    | WASHER, Lock .....   | 4    |
|          | 107587H1 | REPAIR KIT, Wheel Cylinder (Includes 2 of Items 18 & 20) .....                           | Ref  |
|          | 166282H1 | LINING SERVICE KIT (Includes the following).....   | 1    |
|          | 121083H1 | RIVETS .....   | 72   |
|          | 153322H2 | LINING .....   | 4    |

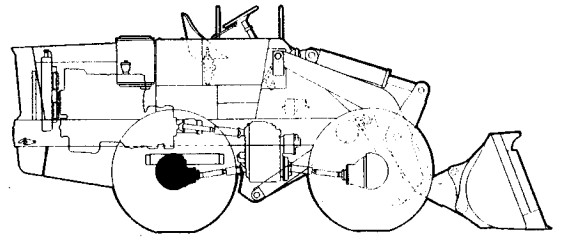
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NOTES



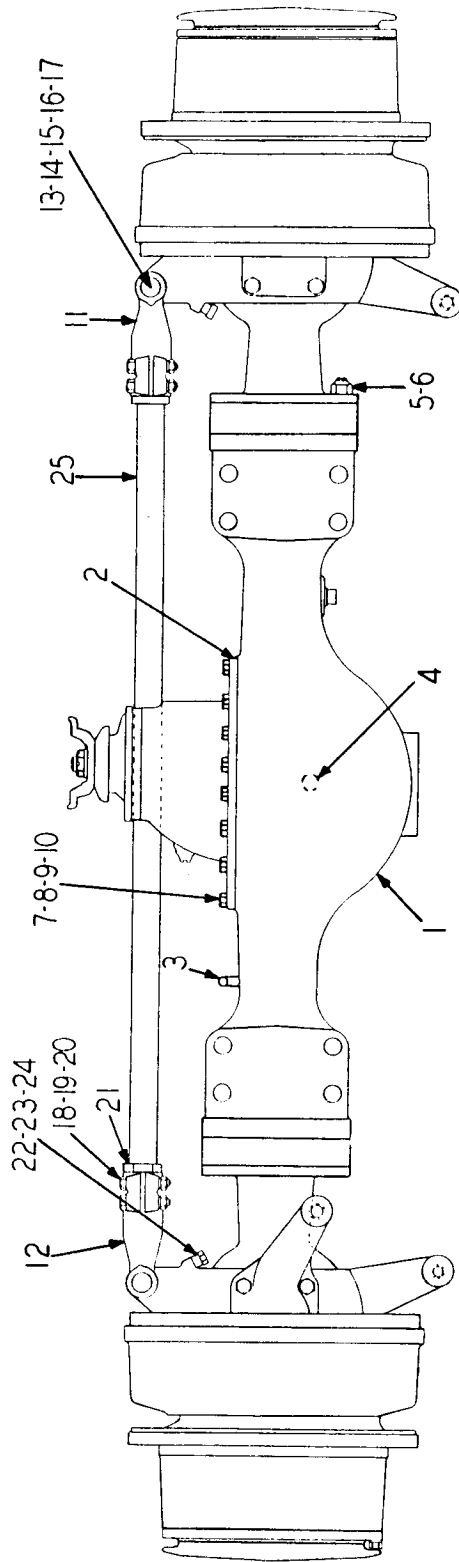
# SECTION 7

## STEERING AXLE



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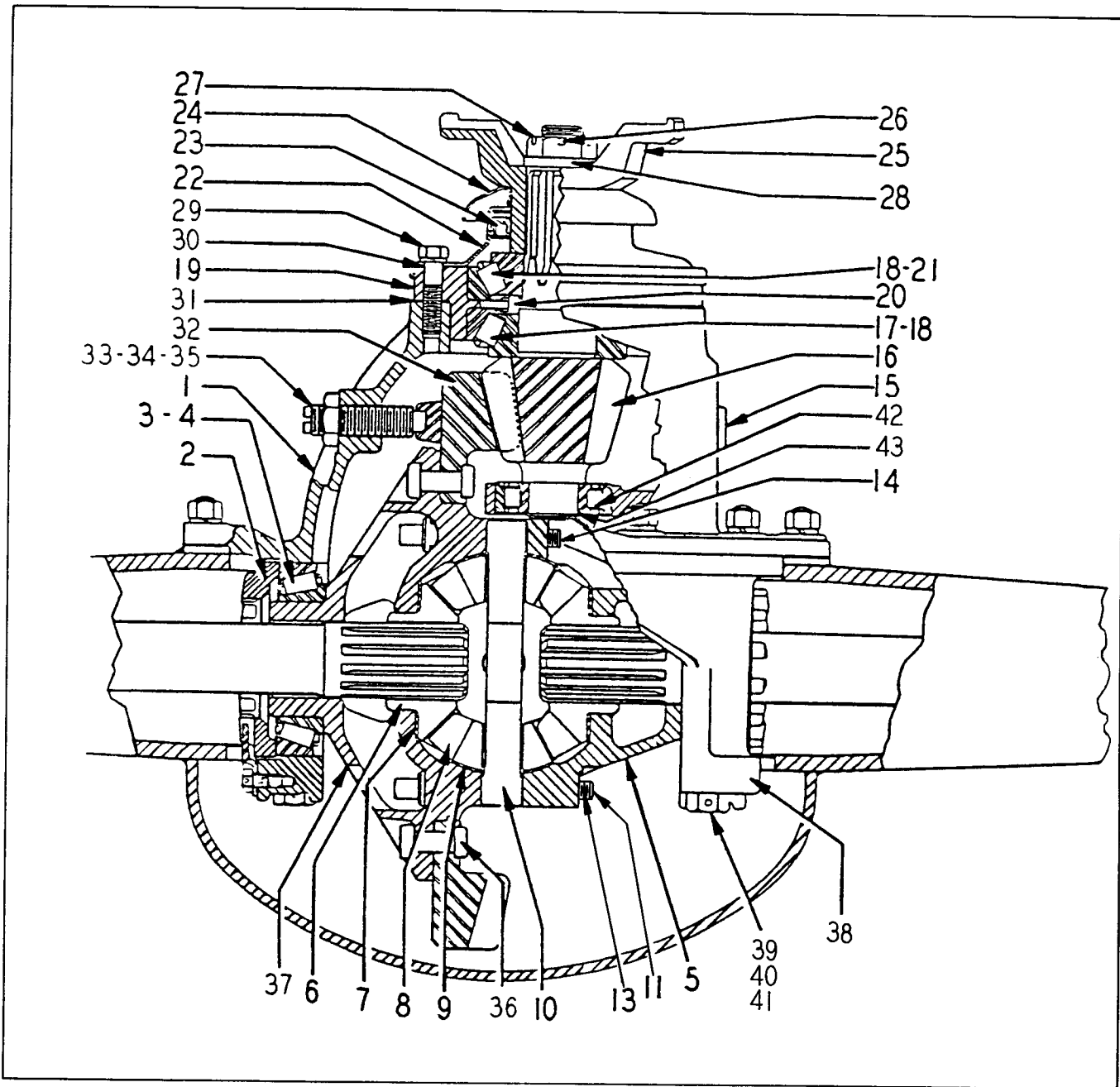
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STEERING AXLE - HOUSING

STEERING AXLE-HOUSING

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 204195H1 | STEERING AXLE COMPLETE (PS-150-HX10) .....                | 1    |
| 1        | 175528H1 | HOUSING (Includes Items 4, 5, 7 & 8) .....                | 1    |
| 2        | 137317H1 | GASKET, Carrier to Housing .....                          | 1    |
| 3        | 116584H1 | BREATHER, Oil, Axle Housing .....                         | 1    |
| 4        | P-220    | PLUG, Oil Drain .....                                     | 1    |
| 5        | 175514H1 | STUD, Trunnion Socket to Housing .....                    | 20   |
| 6        | 141407H1 | NUT, Socket to Housing Stud .....                         | 20   |
| 7        | 136727H1 | STUD, Carrier to Housing - Long .....                     | 4    |
| 8        | 136726H1 | STUD, Carrier to Housing - Short .....                    | 10   |
|          | 191941H1 | SPACER .....  | 2    |
| 9        | H-18-8   | NUT, Housing Stud .....                                   | 14   |
| 10       | WL-18    | WASHER, Lock .....  | 14   |
| 11       | 109495H1 | YOKE, Tie Rod (12 Thd.) R. H. .... } Replaced by 216085H1 | 1    |
| 12       | 109494H1 | YOKE, Tie Rod (16 Thd.) L. H. .... } Nuts                 | 1    |
| 13       | 109386H1 | BUSHING .....   | 2    |
| 14       | 109354H1 | BOLT, Tie Rod Yoke .....                                  | 2    |
| 15       | 109384H1 | NUT .....   | 2    |
| 16       | CP-412   | PIN, Cotter .....   | 2    |
| 17       | 109377H1 | PIN, Lock .....   | 2    |
| 18       | S-1822-8 | BOLT, Clamp .....   | 4    |
| 19       | H-18-1   | NUT .....   | 4    |
| 20       | WL-18    | WASHER, Lock .....  | 4    |
| 21       | 109385H1 | NUT, Lock, Tie Rod .....                                  | 1    |
| 22       | 109355H1 | SCREW .....   | 2    |
| 23       | 115917H1 | SPACER .....  | 2    |
| 24       | 109471H1 | SHIM .....  | 12   |
| 25       | 175534H1 | ROD, Tie .....  | 1    |



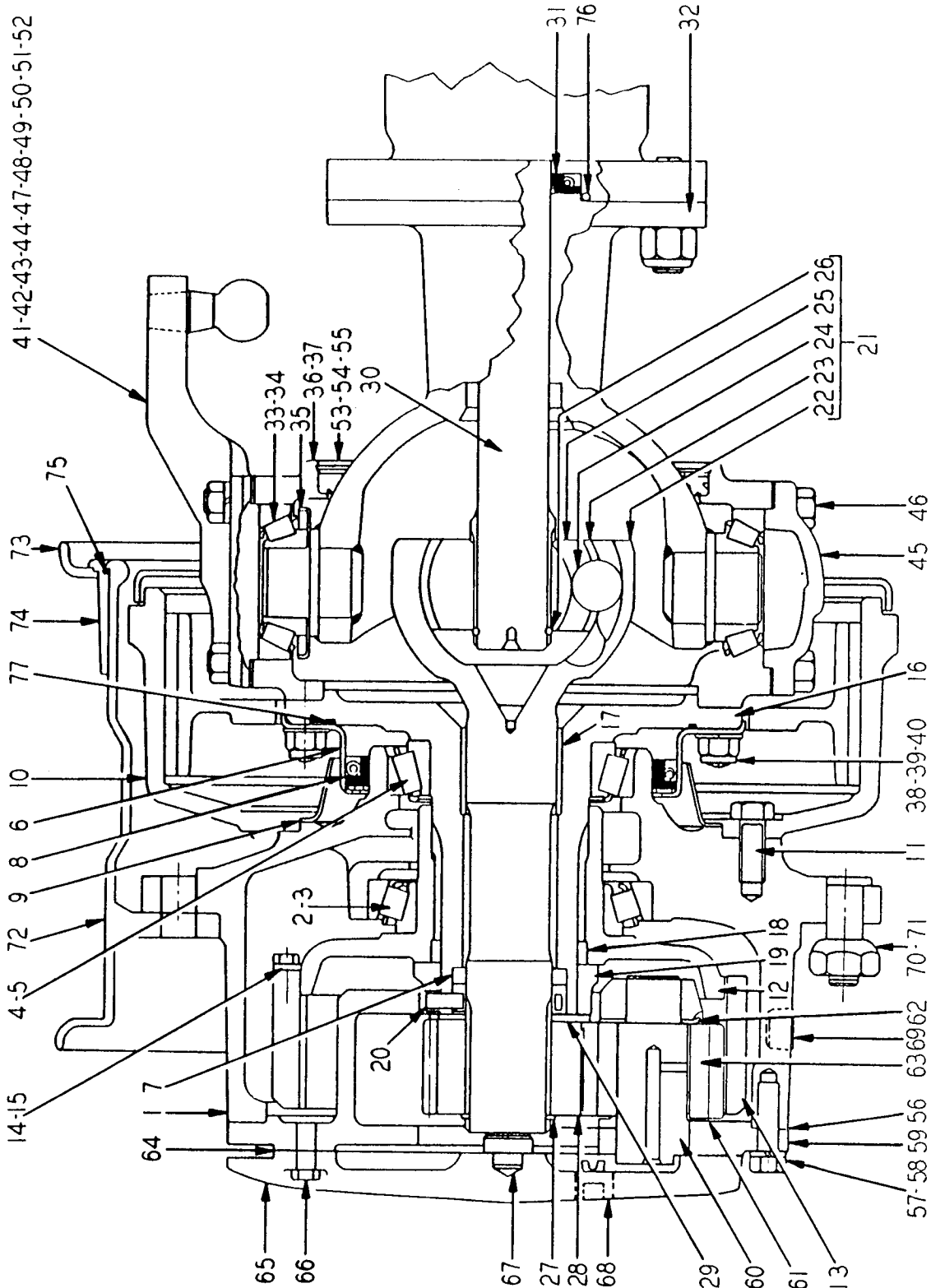
STEERING AXLE-DIFFERENTIAL

| ITEM NO.                      | PART NO. | PART NAME  | Qty. |
|-------------------------------|----------|--|------|
|                               | 221398H1 | DIFFERENTIAL CARRIER ASSEMBLY (Replaces 205013H1) . . . . .  | 1    |
|                               | 127047H2 | DIFFERENTIAL CASE ASSEMBLY, Includes Items 5, 11, 12, 14<br>and 37 (replaces 127047H1) . . . . .     | 1    |
|                               | 137216H2 | DIFFERENTIAL ASSEMBLY, Includes 127047H2 and Items 6 thru 10<br>and 13 (replaces 137216H1) . . . . . | 1    |
|                               | 205014H1 | GEAR & PINION SET, Includes Items 16 and 32 . . . . .  | 1    |
|                               | 216839H1 | DIFFERENTIAL CARRIER & CAP ASSEMBLY, Includes Items 38,<br>40 and 41 (Replaces 137215H1) . . . . .   | 1    |
| 2                             | 136783H1 | RING, Bearing Adjusting . . . . .  | 2    |
| 3                             | 117548H1 | CONE, Differential Bearing . . . . .   | 2    |
| (Continued on following page) |          |  |      |



STEERING AXLE-DIFFERENTIAL (Continued)

| ITEM NO. | PART NO. | PART NAME  | Qty.              |
|----------|----------|--|-------------------|
| 4        | 127262H1 | CUP, Differential Bearing .....                            | 2                 |
| 5        |          | CASE, Plain Half (Part of 127047H1, See Assembly) .....    | 1                 |
| 6        | 136780H1 | GEAR, Side .....   | 2                 |
| 7        | 127056H1 | WASHER, Thrust .....                                       | 2                 |
| 8        | 136778H1 | PINION .....   | 4                 |
| 9        | 136779H1 | WASHER, Thrust .....                                       | 4                 |
| 10       | 127057H1 | SPIDER, Differential .....                                 | 1                 |
| 11       | 876417C1 | BOLT, Long, Differential (replaces 127049H1) .....         | 8                 |
| 13       | LW-1626  | LOCKWIRE, Differential Case Bolt .....                     | 2                 |
| 14       | 876416C1 | BOLT, Short, Differential Case (replaces 127050H1) .....   | 4                 |
| 15       | P-212    | PLUG, Filler & Oil Level Hole .....                        | 1                 |
| 16       |          | DRIVE PINION (Order 205014H1) .....                        | 1                 |
| 17       | 216779H1 | CONE, Inner (Replaces 127027H1) .....                      | 1                 |
| 18       | 127028H1 | CUP, Bearing, Pinion .....                                 | 2                 |
| 19       | 137501H1 | PINION BEARING CAGE & CUP ASSEMBLY, Includes Item 18 ..... | 1                 |
| 20       | 127067H1 | SPACER, .219 .....   | } Use as required |
|          | 127068H1 | SPACER, .220 .....   |                   |
|          | 127069H1 | SPACER, .221 .....   |                   |
|          | 127070H1 | SPACER, .222 .....   |                   |
|          | 127071H1 | SPACER, .223 .....   |                   |
|          | 127072H1 | SPACER, .224 .....   |                   |
|          | 127073H1 | SPACER, .230 .....   |                   |
|          | 127074H1 | SPACER, .236 .....   |                   |
|          | 127075H1 | SPACER, .242 .....   |                   |
|          | 127076H1 | SPACER, .248 .....   |                   |
|          | 127077H1 | SPACER, .254 .....   |                   |
| 21       | 215440H1 | CONE, Outer (Replaces 127026H1) .....                      | 1                 |
| 22       | 127064H1 | COVER & OIL SEAL ASSEMBLY, Includes Item 23 .....          | 1                 |
| 23       | 127063H1 | OIL SEAL ASSEMBLY .....                                    | 1                 |
| 24       |          | SLINGER, Order Item 25 .....                               | 1                 |
| 25       | 156773H1 | YOKE & SLINGER ASSEMBLY .....                              | 1                 |
| 26       | CP-414   | PIN, Cotter .....  | 1                 |
| 27       | 104078H1 | NUT, Drive Pinion .....                                    | 1                 |
| 28       | 127079H1 | WASHER .....   | 1                 |
| 29       | S-2714-8 | SCREW, Cap, Pinion Bearing Cage .....                      | 8                 |
| 30       | 127078H1 | GASKET, Cover .....  | 1                 |
| 31       | 127251H1 | SHIM, Pinion Bearing Cage .005 .....                       | } Use as required |
|          | 136784H1 | SHIM, Pinion Bearing Cage .010 .....                       |                   |
|          | 127250H1 | SHIM, Pinion Bearing Cage .003 .....                       |                   |
| 32       |          | DRIVE GEAR (Order 205014H1) .....                          | 1                 |
| 33       | 132804H1 | BLOCK, Thrust .....  | 1                 |
| 34       | 136786H1 | NUT .....  | 1                 |
| 35       | 136785H1 | SCREW, Thrust Block .....                                  | 1                 |
| 36       | 127406H1 | RIVET, Differential & Drive Gear .....                     | 12                |
| 37       |          | CASE, Flange Half (Part of 127047H2) .....                 | 1                 |
|          | 179094H1 | PIN, Cotter (Bearing Adjusting Ring) .....                 | 1                 |
| 38       |          | CAP, Differential Bearing (Order Item 1) .....             | 1                 |
| 39       | LW-1612  | WIRE, Lock .....   | 2                 |
| 40       | 136770H1 | SCREW, Cap, Differential Bearing Cap .....                 | 4                 |
|          | 184210H1 | WASHER .....   | 4                 |
| 41       | 132793H1 | DOWEL, Differential Bearing Cap .....                      | 4                 |
| 42       | 184211H1 | BEARING, Drive Pinion .....                                | 1                 |
| 43       | 136999H1 | RING, Snap, Bearing .....                                  | 1                 |



STEERING AXLE - SHAFT & HUB

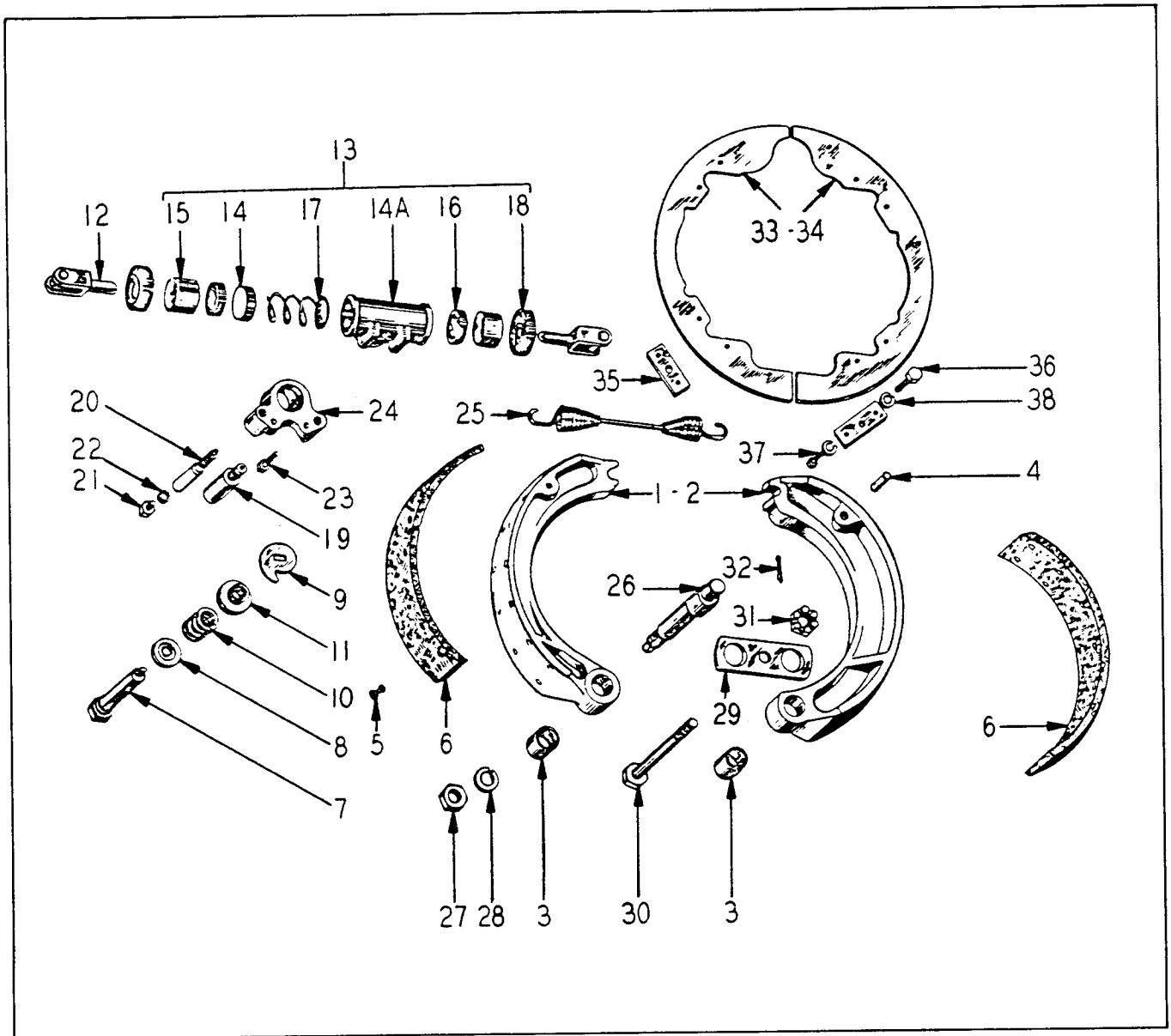
STEERING AXLE-SHAFT & HUB

| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
| 1        | 175531H1  | HUB & CUP ASSEMBLY, Includes Items 2 & 4   | 2    |
| 2        | 136032H1  | CUP, Hub Bearing (Outer)   | 2    |
| 3        | 136031H1  | CONE, Hub Bearing (Outer)  | 2    |
| 4        | 136030H1  | CUP, Hub Bearing (Inner)   | 2    |
| 5        | 148525H1  | CONE, Hub Bearing (Inner)  | 2    |
| 6        | 148522H2  | RETAINER, Hub Oil Seal, Includes Item 8  | 2    |
| 7        | 136234H1  | SEAL, Oil  | 2    |
| 8        | 136233H2  | SEAL, Oil, Hub Bearing   | 2    |
| 9        | 136251H1  | SLINGER, Oil   | 2    |
| 10       | 141538H2  | DRUM, Brake  | 2    |
| 11       | 152163H1  | SCREW, Cap   | 20   |
|          | LW-1650   | WIRE, Lock   | 2    |
| 12       | 136026H1  | HUB, Ring Gear, Includes Item 18   | 2    |
| 13       | 136023H1  | GEAR, Planetary Ring 52T   | 2    |
| 14       | S-266-D8  | SCREW, Cap, Ring Gear  | 16   |
|          | LW-166    | WIRE, Lock   | 8    |
| 15       | 136003H1  | LOCK, Ring Gear  | 8    |
| 16       | 148521H1  | HUB, Spindle, Includes Item 17   | 2    |
| 17       | 136237H1  | BUSHING  | 2    |
| 18       |           | SLEEVE, Not serviceable, Order Item 12   | 2    |
| 19       | 136004H1  | NUT, Hub Bearing   | 2    |
| 20       | 136013H1  | LOCK, Hub Bearing Nut  | 4    |
| 21       | 146995H1  | CAGE ASSEMBLY, Universal Joint, Includes Items 22 thru 26  | 2    |
| 22       | 150967H1  | RACE, Universal Joint (Outer)  | 2    |
| 23       | 127227H1  | CAGE   | 2    |
| 24       | 127226H1  | BALL   | 12   |
| 25       | 132451H1  | RACE, Inner  | 2    |
| 26       | 132452H1  | RING, Snap, Axle Shaft Retainer  | 2    |
| 27       | 136239H1  | RING, Snap, Drive Joint Retainer   | 2    |
| 28       | 136024H1  | GEAR, Planetary Sun (20T)  | 2    |
| 29       | 136005H1  | WASHER, Sun Gear   | 2    |
| 30       | 175536H1  | SHAFT, Axle Drive  | 2    |
|          | 187016H1  | GUIDE, Axle Drive Shaft  | 2    |
| 31       | 136735H1  | SEAL, Oil, Drive Shaft   | 2    |
| 32       | 175535H1  | SOCKET & PIN ASSEMBLY, Trunnion  | 2    |
| 33       | 104559H1  | CONE, Steering Bearing   | 4    |
| 34       | 109310H1  | CUP, Steering Bearing  | 4    |
| 35       | 109379H1  | RETAINER, Grease   | 2    |
| *36      | 192346H1  | STEERING KNUCKLE FLANGE & STUD ASSEMBLY R.H., Includes 12 of Item 39, 2 of Items 79, 80 & 81, Items 13, 22, 23, 24 in Housing Group & Items 7 thru 11 in Brake Group (see note)            | 1    |
| *37      | 192347H1  | STEERING KNUCKLE FLANGE & STUD ASSEMBLY L.H., Includes 12 of Item 39, Items 49 & 50, 2 of Items 79, 80 & 81, Items 13, 22, 24 in Housing Group & Items 7 thru 11 in Brake Group (see note) | 1    |
| 38       | 141933H1  | NUT  | 24   |
| 39       | 152138H1  | STUD   | 24   |
| 40       | 148528H1  | WASHER, Lock   | 24   |
| 41       | 109485H1  | CAP, Steering Bearing, Upper   | 1    |
| 42       | S-21012-8 | SCREW, Cap   | 4    |
|          | WL-110    | WASHER, Lock   | 4    |
| 43       | 109470H1  | SHIM, Steering Bearing Cap, Thick  | 4    |
| 44       | 109469H1  | SHIM, Steering Bearing Cap, Thin   | 20   |
| 45       | 109486H1  | CAP, Steering Bearing, Lower   | 2    |
| 46       | S-21012-8 | SCREW, Cap   | 8    |
|          | WL-110    | WASHER, Lock   | 8    |
| 47       | 147761H1  | ARM, Steering  | 1    |
| 48       | 109376H1  | DOWEL, Steering Arm Stud   | 2    |
| 49       | 136229H1  | STUD, Steering Arm, Inner  | 2    |
| 50       | 109350H1  | STUD, Steering Arm, Outer  | 2    |
| 51       | 109356H1  | NUT, Steering Arm Stud, Inner  | 2    |
| 51       | H-110-1   | NUT, Steering Arm Stud, Outer  | 2    |
| 52       | WL-110    | WASHER, Lock   | 4    |

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STEERING AXLE-SHAFT & HUB (Continued)

| ITEM NO.  | PART NO. | PART NAME                                   | Qty. |
|---|----------|---|------|
| 53  | 149446H1 | RING, Snap, Trunnion Socket                 | 2    |
| 54  | 178795H1 | RETAINER                                    | 2    |
| 55  | 149444H1 | SEAL  | 2    |
| 56  | 183214H1 | "O" RING, Spider to Hub                     | 2    |
| 57  | 132776H1 | SCREW, Cap                                  | 28   |
| 58  | WL-18    | WASHER, Lock                                | 28   |
| 59  | 175506H1 | SPIDER                                      | 2    |
| 60  | 204067H1 | SHAFT, Planetary Pinion (Replaces 136022H1) | 6    |
| 61  | 136006H1 | WASHER, Pinion Thrust, Outer                | 6    |
| 62  | 198031H1 | WASHER, Pinion Thrust, Inner                | 6    |
| 63  | 136025H1 | PINION, Planetary (16T)                     | 6    |
| 64  | 136016H1 | GASKET, Spider Cover                        | 2    |
| 65  | 144024H1 | COVER, Spider, Includes Item 67             | 2    |
| 66  | S-279-8  | SCREW, Cap, w/Lockwasher, Cover             | 16   |
| 67  | 136012H1 | BUTTON, Thrust                              | 2    |
| 68  | P - 24   | PLUG, Planetary Drive Oil Filler            | 2    |
| 69  | 136009H1 | PLUG, Planetary Drive Oil Drain             | 2    |
| 70  | 209564H1 | NUT, Cap (Replaces 102430H1)                | 24   |
| 71  | 135996H1 | STUD, Wheel                                 | 24   |
| 72  | 150415H1 | WHEEL                                       | 2    |
| 73  | 138546H1 | FLANGE                                      | 2    |
| 74  | 138547H1 | RING, Lock                                  | 2    |
| 75  | 138548H1 | "O" RING                                    | 2    |
| 76  | OR3-18   | "O" RING                                    | 2    |
| 77  | OR3-47   | "O" RING                                    | 2    |
|   | WL-18    | WASHER, Lock                                | 16   |
|   | 109323H1 | NUT   | 4    |
|   | 116374H1 | SCREW, Cap                                  | 4    |
|   | S-2810-8 | SCREW, Cap                                  | 12   |
|   | P - 32   | PLUG  | 2    |
|   | W - 17   | WASHER, Lock                                | 16   |
|   |          | VALVE, Rim #TR-623                          |      |
|   |          | TIRE, 16:00 x 24-12 Ply                     |      |
|   |          | Grader Tubeless                             |      |
|   |          | Spider to Hub                               |      |
|   |          | Steering Knuckle Flange Halves Attaching    |      |
|   |          | Buy from Local Dealer                       |      |
| <p>* NOTE:<br/>Assemblies include 197378H1 Steering Knuckle Assembly, 191211H1 Bushing (2), and 197379H1 Flange Assembly.</p> |          |   |      |



STEERING AXLE-BRAKE

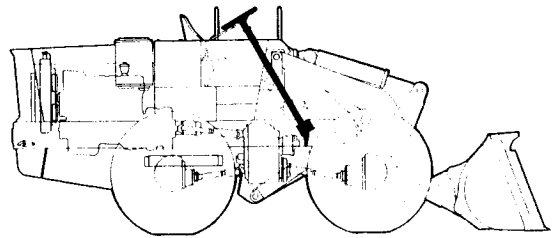
| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 150916H2 | SHOE & LINING ASSEMBLY, L.H. Fwd. R.H. Rev. ....         | 2    |
| 2        | 150917H2 | SHOE & LINING ASSEMBLY, R.H. Fwd. L.H. Rev. ....         | 2    |
|          |          | Items 1 & 2 include the following 4 items                |      |
| 3        | 120679H1 | BUSHING .....  | 4    |
| 4        | 112277H2 | PIN .....  | 4    |
| 5        | 121083H1 | RIVET .....  | 64   |
| 6        | 161087H1 | LINING KIT, Includes 4 linings & 72 rivets .....         | AR   |
| 7        | 116287H1 | BOLT, Brake Adjusting Cam .....                          | 4    |
| 8        | 121725H1 | WASHER, Adjusting Cam .....                              | 4    |
| 9        | 121726H1 | CAM, Brake Shoe Adjusting .....                          | 4    |
| 10       | 116290H1 | SPRING, Adjusting Cam .....                              | 4    |
| 11       | 116289H1 | RETAINER, Adjusting Cam Spring .....                     | 4    |
| 12       | 107591H1 | LINK, Connecting .....                                   | 4    |
| 13       | 121728H1 | WHEEL CYLINDER ASSEMBLY, Includes Items 14 thru 18 ..... | 2    |

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STEERING AXLE-BRAKE (Continued)

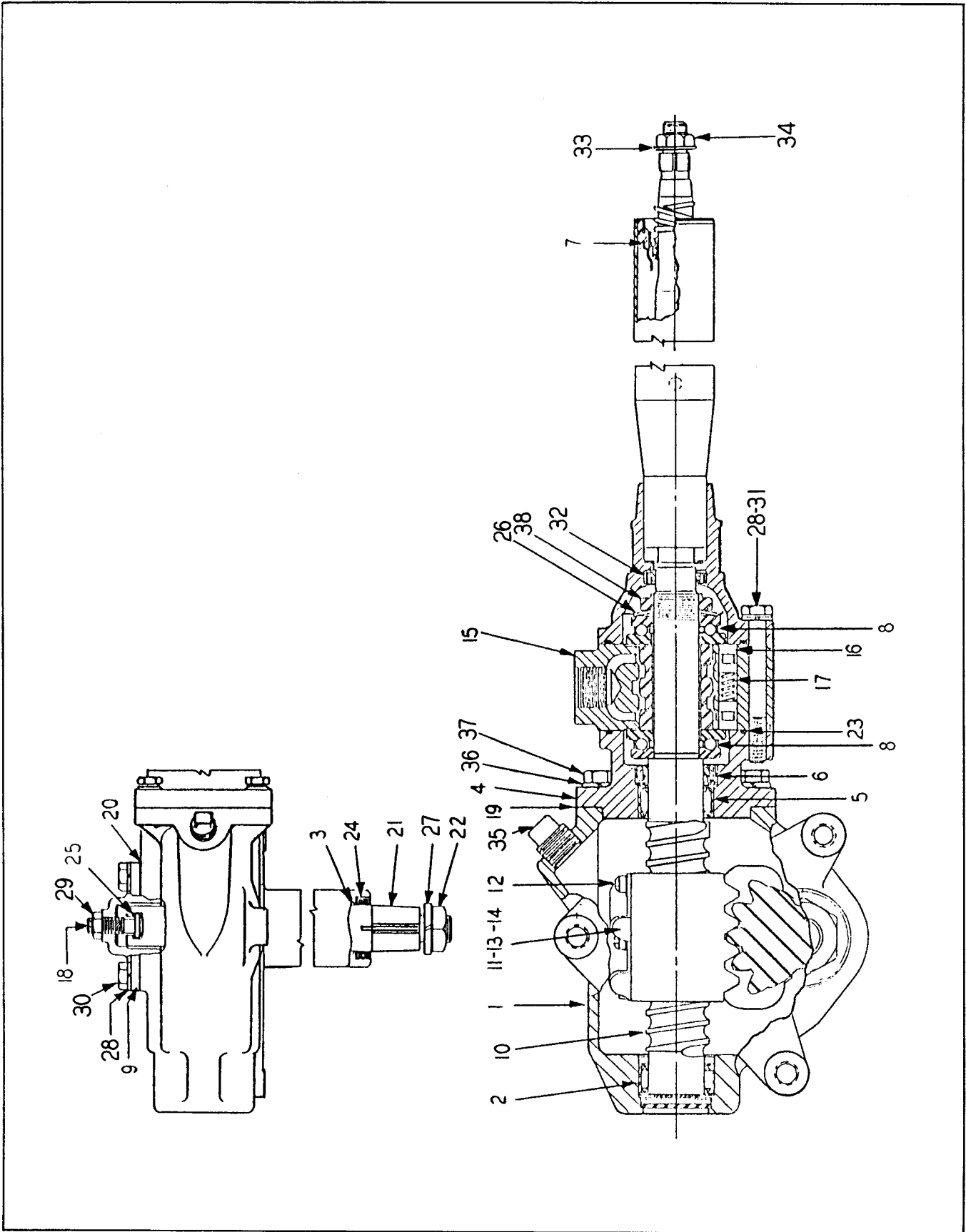
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 14       | 151453H1 | RETAINER, Spring                                    | 4    |
| 14A      |          | CASTING, Cylinder, Order Item 13                    | 2    |
| 15       | 109538H1 | PISTON  | 2    |
| 16       | 109539H1 | CUP   | 4    |
| 17       | 122008H1 | SPRING  | 2    |
| 18       | 109541H1 | BOOT  | 4    |
| 18A      | 121729H1 | FITTING, Inlet, Wheel Cylinder                      | 2    |
| 19       | 121730H1 | EXTENSION, Inlet Fitting                            | 2    |
| 20       | 121731H1 | SCREW, Bleeder                                      | 2    |
| 21       | S-144    | SCREW, Cap, Bleeder Screw                           | 2    |
| 22       | WL-14    | WASHER, Lock  | 2    |
| 23       | 174957H1 | SCREW, Cap, Wheel Cylinder                          | 4    |
| 24       | 174956H1 | ADAPTER, Wheel Cylinder                             | 2    |
|          | S-2816-8 | SCREW, Cap  | 4    |
|          | WL-18    | WASHER, Lock  | 4    |
|          |          | } Adapter to Flange                                 | 4    |
| 25       | 120689H1 | SPRING, Brake Shoe Return                           | 2    |
| 26       | 120683H1 | PIN, Brake Shoe                                     | 4    |
| 27       | 120675H1 | NUT, Brake Shoe Pin                                 | 4    |
| 28       | WL-116   | WASHER, Lock  | 4    |
| 29       | 120680H1 | LINK, Brake Shoe                                    | 2    |
| 30       | 151135H1 | BOLT, Brake Shoe Link                               | 2    |
| 31       | H-78-1   | NUT, Link Bolt                                      | 2    |
| 32       | CP-38    | COTTER, Link Bolt                                   | 2    |
| 33       | 138785H1 | SHIELD, Dust  | 2    |
| 34       | 138786H1 | SHIELD, Dust  | 2    |
| 35       | 120684H1 | PLATE, Dust Shield Mounting                         | 4    |
| 36       | S-267-8  | SCREW, Cap, Shield Plate to Flange                  | 4    |
| 37       | S-264    | SCREW, Cap, Dust Shield                             | 12   |
| 38       | WL-16    | WASHER, Lock  | 16   |
|          | HA-884   | GASKET  | 4    |
|          | 107587H1 | KIT, Repair, Wheel Cylinder, Includes Items 16 & 18 | AR   |

# STEERING GEAR



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| VALVE, STEERING .....         | 8-3  |



STEERING GEAR



SAGINAW STEERING GEAR

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 197191H1 | STEERING GEAR CHUCK (Includes Items 1 thru 38)                    | 1    |
| 1        | 186474H1 | HOUSING ASSEMBLY (Includes Items 2 & 3)                           | 1    |
| 2        | 158296H1 | BEARING   | 1    |
| 3        | 186475H1 | BUSHING   | 2    |
| 4        | 186468H1 | ADAPTER ASSEMBLY (Includes Items 5 & 6)                           | 1    |
| 5        | 158296H1 | BEARING   | 1    |
| 6        | 186469H1 | SEAL  | 1    |
|          | 198526H1 | COVER ASSEMBLY, Jacket, Bearing and Seal, Includes Items 7 and 32 | 1    |
| 7        | 193155H1 | BEARING ASSEMBLY, Upper   | 1    |
| 8        | 158297H1 | BEARING, Thrust   | 2    |
| 9        | 186470H1 | COVER ASSEMBLY  | 1    |
| 10       | 195667H1 | SHAFT ASSEMBLY (Includes Items 11 thru 14)                        | 1    |
| 11       | HS-911   | BALL  | 106  |
| 12       | 107940H1 | BOLT & WASHER   | 3    |
| 13       | 107941H1 | CLAMP, Guide  | 1    |
| 14       | 107942H1 | GUIDE   | 4    |
|          | 107943H1 | NUT, Ball   | 1    |
| 15       | 158302H1 | VALVE ASSEMBLY (Includes Items 16 & 17)                           | 1    |
| 16       | 158303H1 | PLUNGER   | 6    |
| 17       | 158304H1 | SPRING  | 3    |
| 18       | HS-914   | ADJUSTER, Lash  | 1    |
| 19       | 186480H1 | GASKET  | 1    |
| 20       | 186481H1 | GASKET  | 1    |
| 21       | 186482H1 | GEAR  | 1    |
| 22       | 161810H1 | NUT   | 1    |
| 23       | 186483H1 | SEAL  | 2    |
| 24       | 186484H1 | SEAL  | 1    |
| 25       | 122511H1 | KIT, Shim (Includes next four items)                              | 1    |
|          | HA-1440  | SHIM, (.063)  | 1    |
|          | HA-1441  | SHIM, (.065)  | 1    |
|          | HA-1445  | SHIM, (.067)  | 1    |
|          | HA-1446  | SHIM, (.069)  | 1    |
| 26       | 172352H1 | SPRING  | 1    |
| 27       | WL-214   | WASHER, Lock  | 1    |
| 28       | WL-16    | WASHER, Lock  | 6    |
| 29       | H - 37   | NUT   | 1    |
| 30       | S-266    | SCREW, Cap  | 3    |
| 31       | S-2626   | SCREW, Cap  | 3    |
| 32       | 195666H1 | SEAL, Valve Cover   | 1    |
| 33       | HA-1492  | WASHER  | 1    |
| 34       | HA-1232  | NUT   | 1    |
| 35       | P - 18   | PLUG, Filler  | 1    |
| 36       | WL-17    | WASHER, Lock  | 4    |
| 37       | HS-931   | BOLT  | 4    |
| 38       | 158336H1 | NUT   | 1    |
|          | HA-1231  | WHEEL, Steering   | 1    |
|          | 150717H1 | COVER, Wheel  | 1    |
|          | 185952H1 | ARM, Pitman   | 1    |
|          | 153492H1 | BRACKET   | 1    |
|          | S-169    | SCREW, Cap  | 2    |
|          | WF-16    | WASHER, Flat  | 4    |
|          | WL-16    | WASHER, Lock  | 2    |
|          | H - 16   | NUT   | 2    |
|          | 144079H1 | "U" BOLT  | 1    |
|          | 144068H1 | BLOCK   | 1    |
|          | E - 26   | NUT   | 2    |
|          | S-2812   | SCREW, Cap  | 3    |
|          | WL-18    | WASHER, Lock  | 3    |
|          | S-11216  | SCREW, Cap  | 4    |
|          | WL-112   | WASHER, Lock  | 4    |
|          | H-112    | NUT   | 4    |

} Steering Shaft

} Adapter

} S/N 21FH-2901 thru 3011,  
3013 thru 3021  
Bracket to Frame

} Steering Gear Mounting

} Support to Frame

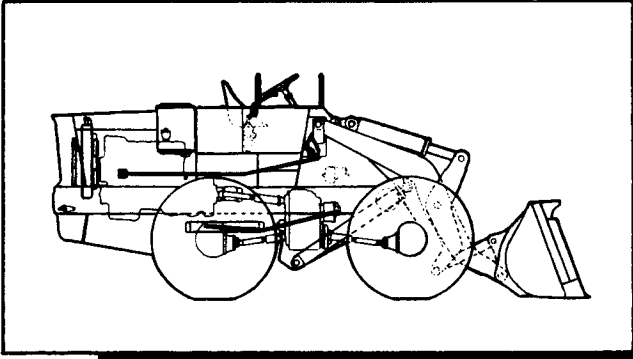
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NOTES



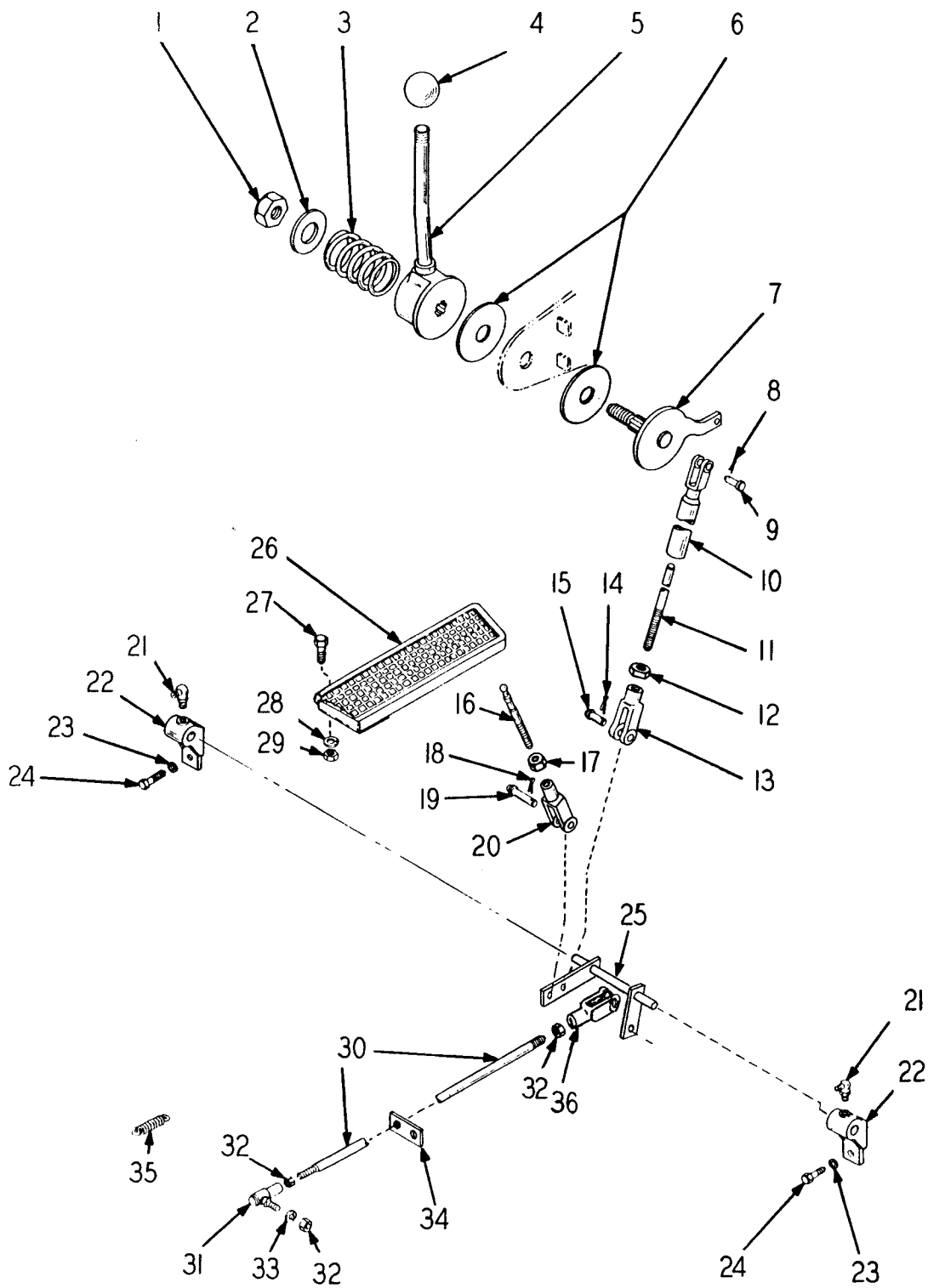
**SECTION 9**

**LINKAGE**



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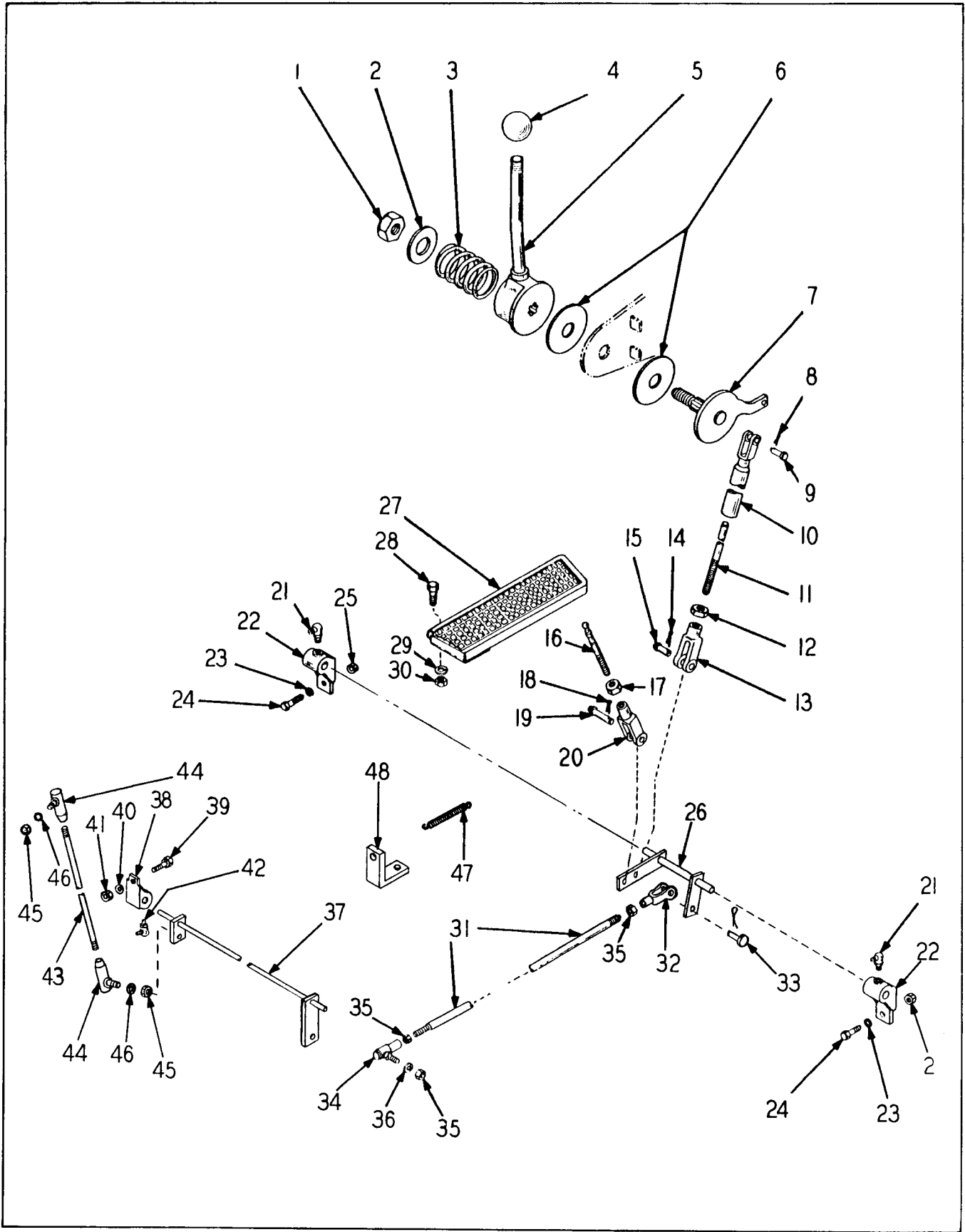


ACCELERATOR LINKAGE (I. H. & CUMMINS ENGINE)

ACCELERATOR LINKAGE (I. H. & CUMMINS ENGINE)

| ITEM NO. | PART NO. | PART NAME                               | Qty. |
|----------|----------|---|------|
| 1        | H - 18   | NUT .....                               | 1    |
| 2        | 113694H1 | WASHER, Flat .....                      | 1    |
|          | WL-18    | WASHER, Lock .....                      | 1    |
| 3        | 108650H1 | SPRING .....                            | 1    |
| 4        | HL-3343  | KNOB .....                              | 1    |
| 5        | 214604H1 | LEVER (Replaced 140960H1) .....         | 1    |
| 6        | 108651H1 | DISC .....                              | 2    |
| 7        | 125098H1 | SHAFT, Throttle .....                   | 1    |
| 8        |          | PIN, Cotter .....                       | 1    |
| 9        | HA-845   | PIN, Assembly .....                     | 1    |
| 10       | 109046H1 | TUBE ASSEMBLY .....                     | 1    |
| 11       | 206088H1 | ROD .....                               | 1    |
| 12       | H - 15   | NUT .....                               | 1    |
| 13       | HL-1263  | CLEVIS .....                            | 1    |
| 14       |          | PIN, Cotter .....                       | 1    |
| 15       | HL-1264  | PIN ASSEMBLY .....                      | 1    |
| 16       | 141689H1 | PIN, Pedal .....                        | 1    |
| 17       | H - 15   | NUT .....                               | 1    |
| 18       |          | PIN, Cotter .....                       | 1    |
| 19       | HL-1264  | PIN ASSEMBLY .....                      | 1    |
| 20       | HL-1263  | CLEVIS, Rod End .....                   | 1    |
| 21       | 118494H1 | FITTING, Grease .....                   | 2    |
| 22       | HA-800   | BEARING .....                           | 2    |
| 23       | WL-14    | WASHER, Lock .....                      | 4    |
|          | H - 14   | NUT .....                               | 4    |
| 24       | S-148    | SCREW, Cap .....                        | 4    |
| 25       | 172215H1 | SHAFT, Cross .....                      | 1    |
| 26       | 155596H1 | PEDAL, Accelerator .....                | 1    |
| 27       | S-148    | SCREW, Cap .....                        | 2    |
| 28       | WL-14    | WASHER, Lock .....                      | 2    |
| 29       | H - 14   | NUT .....                               | 2    |
| 30       | 172218H1 | ROD, Accelerator (Cummins Engine) ..... | 1    |
| 30       | 205848H1 | ROD, Accelerator (I. H. Engine) .....   | 1    |
| 31       | 158396H1 | BALL JOINT .....                        | 1    |
| 32       | H - 15   | NUT .....                               | 2    |
| 33       | WL-15    | WASHER, Lock .....                      | 2    |
| 34       | 103763H1 | SUPPORT, Acc. Rod .....                 | 1    |
|          | S-168    | SCREW, Cap .....                        | 1    |
|          | WL-16    | WASHER, Lock .....                      | 1    |
|          | H - 16   | NUT .....                               | 1    |
| 35       | 117256H1 | SPRING (Cummins Engine) .....           | 1    |
| 35       | 190154H1 | SPRING (I. H. Engine) .....             | 1    |
| 36       | HL-1263  | CLEVIS .....                            | 1    |
|          | HL-1264  | PIN, Clevis .....                       | 1    |

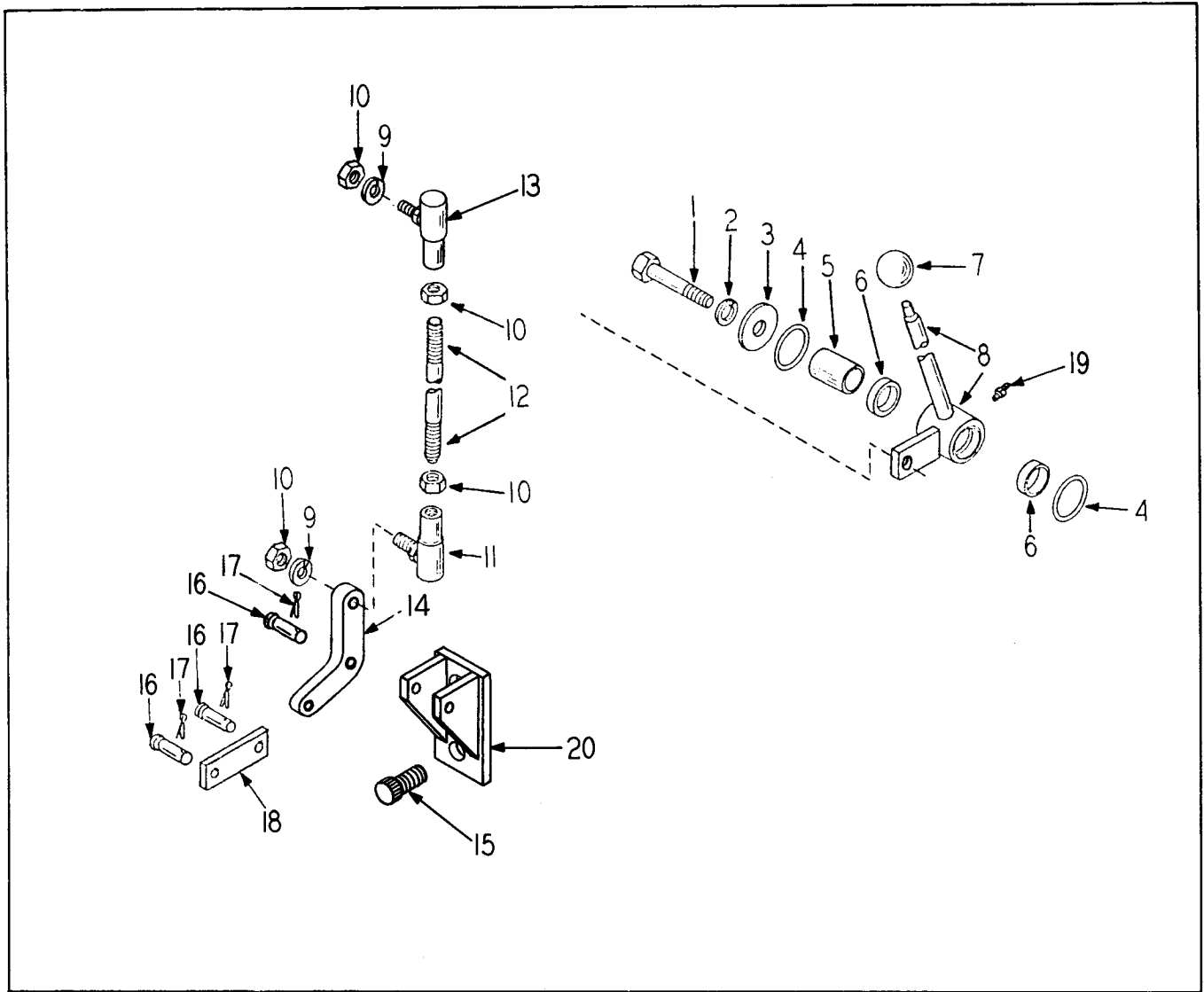
} Support to Frame



ACCELERATOR LINKAGE (DETROIT DIESEL ENGINE)

ACCELERATOR LINKAGE (DETROIT DIESEL ENGINE)

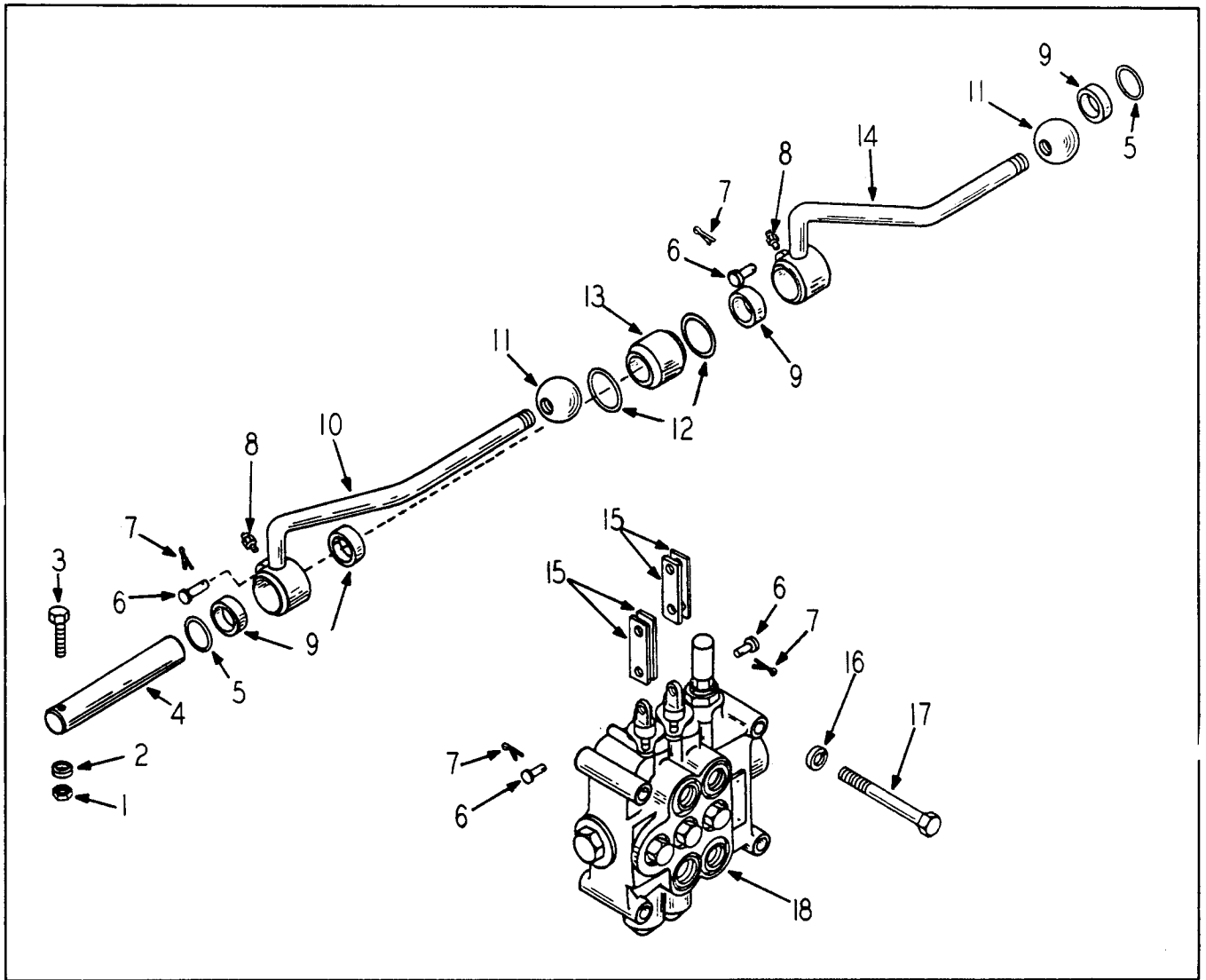
| ITEM NO. | PART NO. | PART NAME                    | Qty. |
|----------|----------|------------------------------|------|
| 1        | H - 18   | NUT                          | 1    |
| 2        | 113694H1 | WASHER, Flat                 | 1    |
|          | WL-18    | WASHER, Lock                 | 1    |
| 3        | 108650H1 | SPRING                       | 1    |
| 4        | HL-3343  | KNOB                         | 1    |
| 5        | 214604H1 | LEVER (Replaced 140960H1)    | 1    |
| 6        | 108651H1 | DISC                         | 2    |
| 7        | 125098H1 | SHAFT, Throttle              | 1    |
| 8        |          | PIN, Cotter                  | 1    |
| 9        | HA-845   | PIN, Assembly                | 1    |
| 10       | 109046H1 | TUBE ASSEMBLY                | 1    |
| 11       | 206088H1 | ROD                          | 1    |
| 12       | H - 15   | NUT                          | 1    |
| 13       | HL-1263  | CLEVIS                       | 1    |
| 14       |          | PIN, Cotter                  | 1    |
| 15       | HL-1264  | PIN, Assembly                | 1    |
| 16       | 141689H1 | PIN, Pedal                   | 1    |
| 17       | H - 15   | NUT                          | 1    |
| 18       |          | PIN, Cotter                  | 1    |
| 19       | HL-1264  | PIN ASSEMBLY                 | 1    |
| 20       | HL-1263  | CLEVIS, Rod End              | 1    |
| 21       | 118494H1 | FITTING, Grease              | 2    |
| 22       | HA-800   | BEARING                      | 2    |
| 23       | WL-14    | WASHER, Lock                 | 4    |
| 24       | S-148    | SCREW, Cap                   | 4    |
| 25       | H - 14   | NUT                          | 4    |
| 26       | 172215H1 | SHAFT, Cross                 | 1    |
| 27       | 155596H1 | PEDAL, Accelerator           | 1    |
| 28       | S-148    | SCREW, Cap                   | 2    |
| 29       | WL-14    | WASHER, Lock                 | 2    |
| 30       | H - 14   | NUT                          | 2    |
| 31       | 179606H1 | ROD, Pedal End, Accelerator  | 1    |
| 32       | HL-1263  | CLEVIS                       | 1    |
| 33       | HL-1264  | PIN ASSEMBLY                 | 1    |
|          |          | PIN, Cotter                  | 1    |
| 34       | 158396H1 | BALLJOINT                    | 1    |
| 35       | H - 15   | NUT                          | 3    |
| 36       | WL-15    | WASHER, Lock                 | 1    |
| 37       | 179601H1 | SHAFT, Cross                 | 1    |
| 38       | HA-800   | BEARING                      | 2    |
| 39       | S-148    | SCREW, Cap                   | 4    |
| 40       | WL-14    | WASHER, Lock                 | 4    |
| 41       | H - 14   | NUT                          | 4    |
| 42       | 118494H1 | FITTING, Grease              | 2    |
| 43       | 179605H1 | ROD, Engine End, Accelerator | 1    |
| 44       | 158396H1 | BALLJOINT                    | 2    |
| 45       | H - 15   | NUT                          | 4    |
| 46       | WL-15    | WASHER, Lock                 | 2    |
| 47       | 157756H1 | SPRING, Accelerator Return   | 1    |
| 48       | 165151H2 | CLIP, Accelerator Return     | 1    |



AXLE THROWOUT LINKAGE

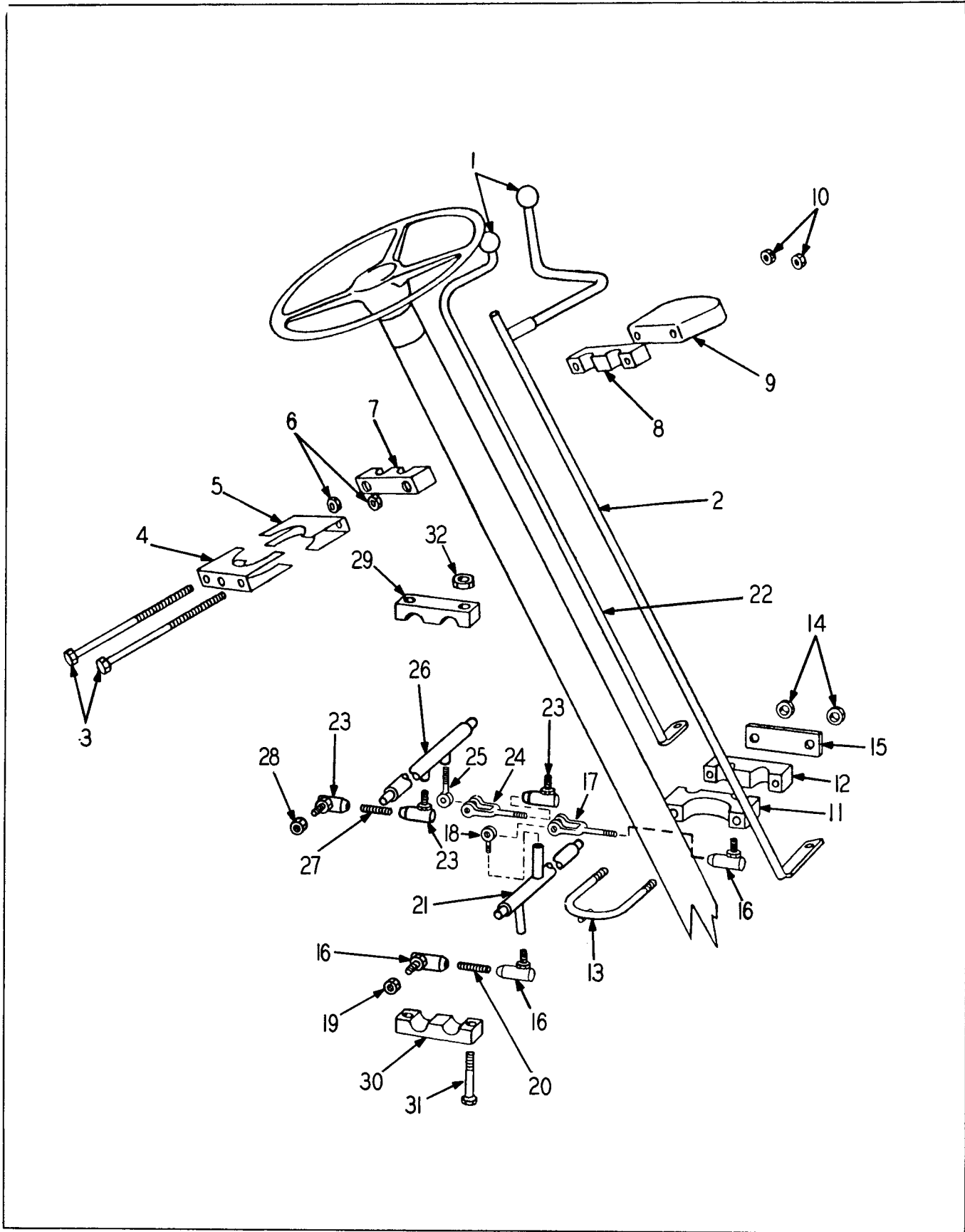
| ITEM NO. | PART NO. | PART NAME              | Qty. |
|----------|----------|------------------------|------|
| 1        | S-21020  | SCREW, Cap             | 1    |
| 2        | WL-110   | WASHER, Lock           | 1    |
| 3        | WF-110   | WASHER, Flat           | 1    |
| 4        | OR4-28   | "O" RING               | 2    |
| 5        | 144301H1 | TUBE, Lever Pivot      | 1    |
| 6        | 144244H1 | BUSHING                | 2    |
| 7        | HL-3343  | KNOB                   | 1    |
| 8        | 207154H1 | LEVER, Includes Item 6 | 2    |
| 9        | WL-18    | WASHER, Lock           | 2    |
| 10       | H - 18   | NUT                    | 4    |
| 11       | 149723H1 | JOINT, Ball            | 1    |
| 12       | 105881H1 | ROD                    | 1    |
| 13       | 149723H1 | JOINT, Ball            | 1    |
| 14       | 207158H1 | BELLCRANK              | 1    |
| 15       | 206169H1 | SCREW, Cap             | 2    |
| 16       | 205422H1 | PIN                    | 3    |
| 17       | CP-47    | PIN, Cotter            | 3    |
| 18       | 207159H1 | LINK                   | 2    |
| 19       | 118491H1 | FITTING, Grease        | 1    |
| 20       | 207157H1 | SUPPORT, Bellcrank     | 1    |





VALVE CONTROL LINKAGE

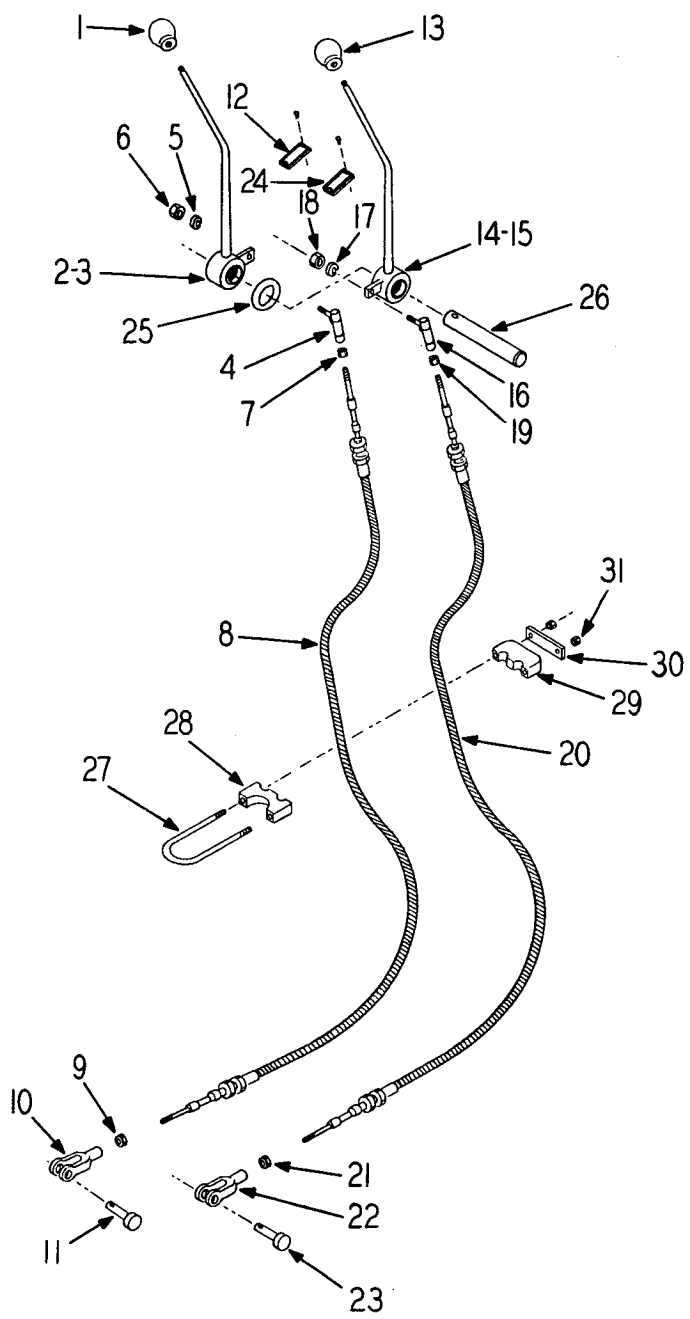
| ITEM NO. | PART NO. | PART NAME                                 | Qty. |
|----------|----------|---|------|
| 1        | H - 15   | NUT .....                                 | 1    |
| 2        | WL-15    | WASHER, Lock .....                        | 1    |
| 3        | S-1520   | SCREW, Cap .....                          | 1    |
| 4        | 171917H1 | PIN, Control Mounting .....               | 1    |
| 5        | OR4-29   | "O" RING .....                            | 2    |
| 6        | GH-212   | PIN ASSEMBLY (Includes Item 7) .....      | 4    |
| 7        |          | PIN, Cotter .....                         | 4    |
| 8        | 118493H1 | FITTING, Grease .....                     | 2    |
| 9        | 144243H1 | BUSHING .....                             | 4    |
| 10       | 176100H1 | BOOM LEVER (Includes 2 of Item 9) .....   | 1    |
| 11       | HL-3343  | KNOB .....                                | 2    |
| 12       | OR4-29   | "O" RING .....                            | 2    |
| 13       | 173786H1 | SPACER .....                              | 1    |
| 14       | 176101H1 | BUCKET LEVER (Includes 2 of Item 9) ..... | 1    |
| 15       | 171918H1 | LINK .....                                | 4    |
| 16       | WL-110   | WASHER, Lock .....                        | 4    |
| 17       | S-21042  | SCREW, Cap .....                          | 4    |
| 18       |          | VALVE (See Page 11-11).....               | 1    |
|          | OR3-2    | "O" RING, Return Port .....               | 1    |



GEARSHIFT LINKAGE

GEARSHIFT LINKAGE  
(Units with S/N's 21FH-2901 thru 3011 and  
3013 thru 3021)

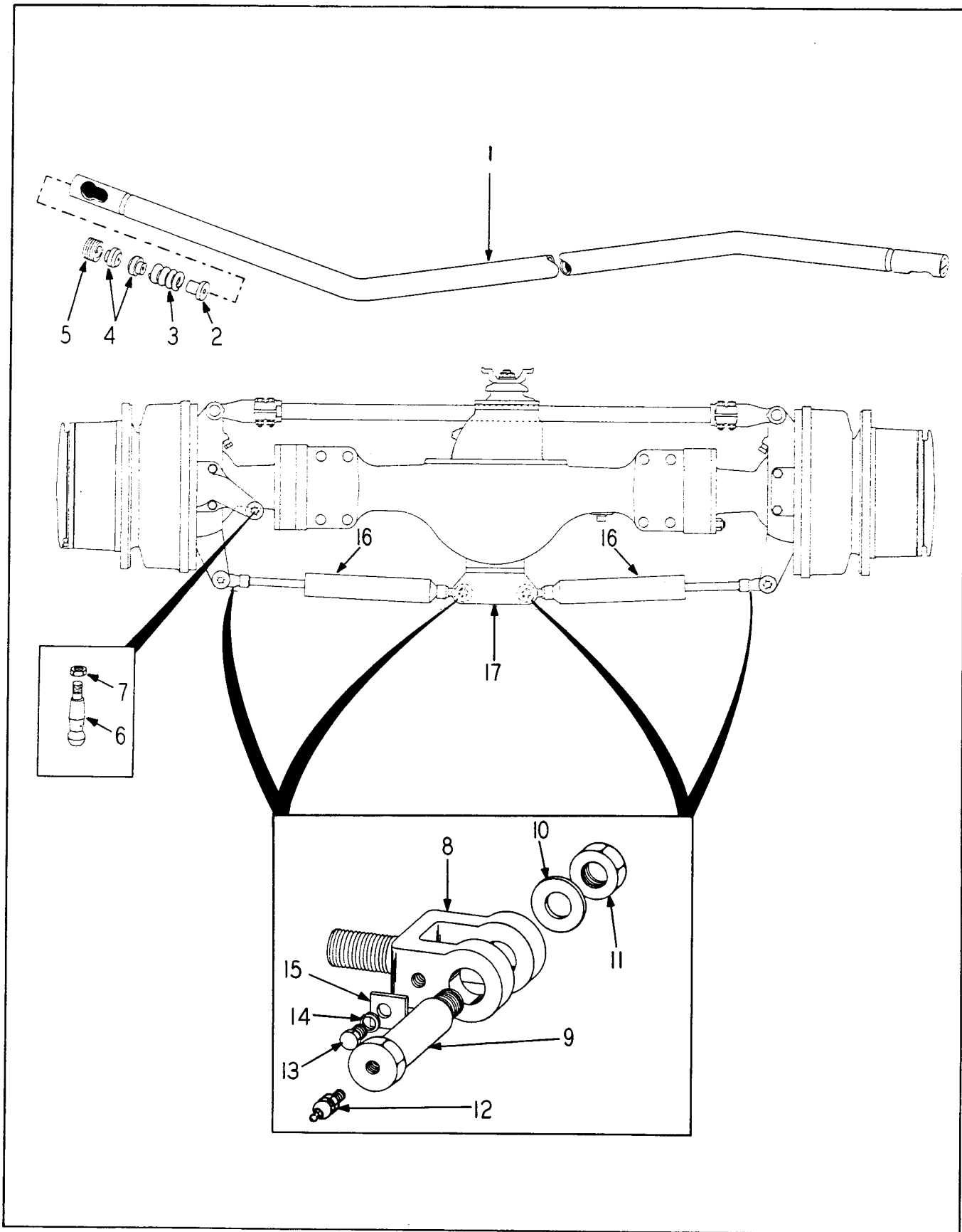
| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | HL-3343  | KNOB .....   | 2    |
| 2        | 207093H1 | LEVER, Range .....   | 1    |
| 3        | 207253H2 | SCREW, Cap .....   | 2    |
| 4        | 181836H1 | CLAMP, Saddle .....  | 1    |
| 5        | 181835H1 | CLAMP, Saddle .....  | 1    |
| 6        | H - 35   | NUT, Jam .....   | 2    |
| 7        | 181837H1 | BLOCK, Bearing .....   | 1    |
| 8        | 144070H1 | BLOCK, Bearing .....   | 1    |
| 9        | 199536H1 | QUADRANT .....   | 1    |
| 10       | E - 15   | NUT .....  | 2    |
| 11       | 144069H1 | BLOCK, Bearing .....   | 2    |
| 12       | 144070H1 | BLOCK, Bearing .....   | 2    |
| 13       | 144405H1 | "U" BOLT (With Pin Weldment) .....                           | 1    |
|          | 144406H1 | "U" BOLT (Without Pin Weldment) .....                        | 1    |
| 14       | E - 25   | NUT .....  | 4    |
| 15       | 146989H1 | PLATE .....  | 2    |
| 16       | 158396H1 | BALL JOINT .....   | 3    |
|          | WL-15    | WASHER, Lock .....   | 4    |
| 17       | 180921H1 | YOKE .....   | 1    |
|          | HL-1264  | PIN & COTTER .....   | 1    |
| 18       | 157311H1 | ROD END .....  | 1    |
| 19       | H - 35   | NUT .....  | 2    |
| 20       | 206940H1 | ROD .....  | 1    |
| 21       | 206938H1 | BELLCRANK .....  | 1    |
| 22       | 207090H1 | LEVER, Forward & Reverse .....                               | 1    |
| 23       | 158396H1 | BALL JOINT .....   | 3    |
|          | WL-15    | WASHER, Lock .....   | 4    |
| 24       | 138408H1 | YOKE (Replaced 206940H1 Rod) - S/N 21FH-2915 & Up .....      | 1    |
|          | HL-1264  | PIN & COTTER .....   | 1    |
| 25       | 212307H1 | ROD END (Replaced 158396H1 Ball Joint) - S/N 2915 & Up ..... | 1    |
| 26       | 206939H1 | BELLCRANK .....  | 1    |
| 27       | 206941H1 | ROD .....  | 1    |
| 28       | H - 35   | NUT .....  | 2    |
| 29       | 181837H1 | BLOCK, Bearing Top .....                                     | 2    |
| 30       | 144070H1 | BLOCK, Bearing Bottom .....                                  | 2    |
| 31       | S-1516   | SCREW, Cap .....   | 4    |
| 32       | E - 15   | NUT .....  | 4    |



GEARSHIFT LINKAGE

GEARSHIFT LINKAGE  
(Units with S/N's 21FH-3012, 3022 & Up)

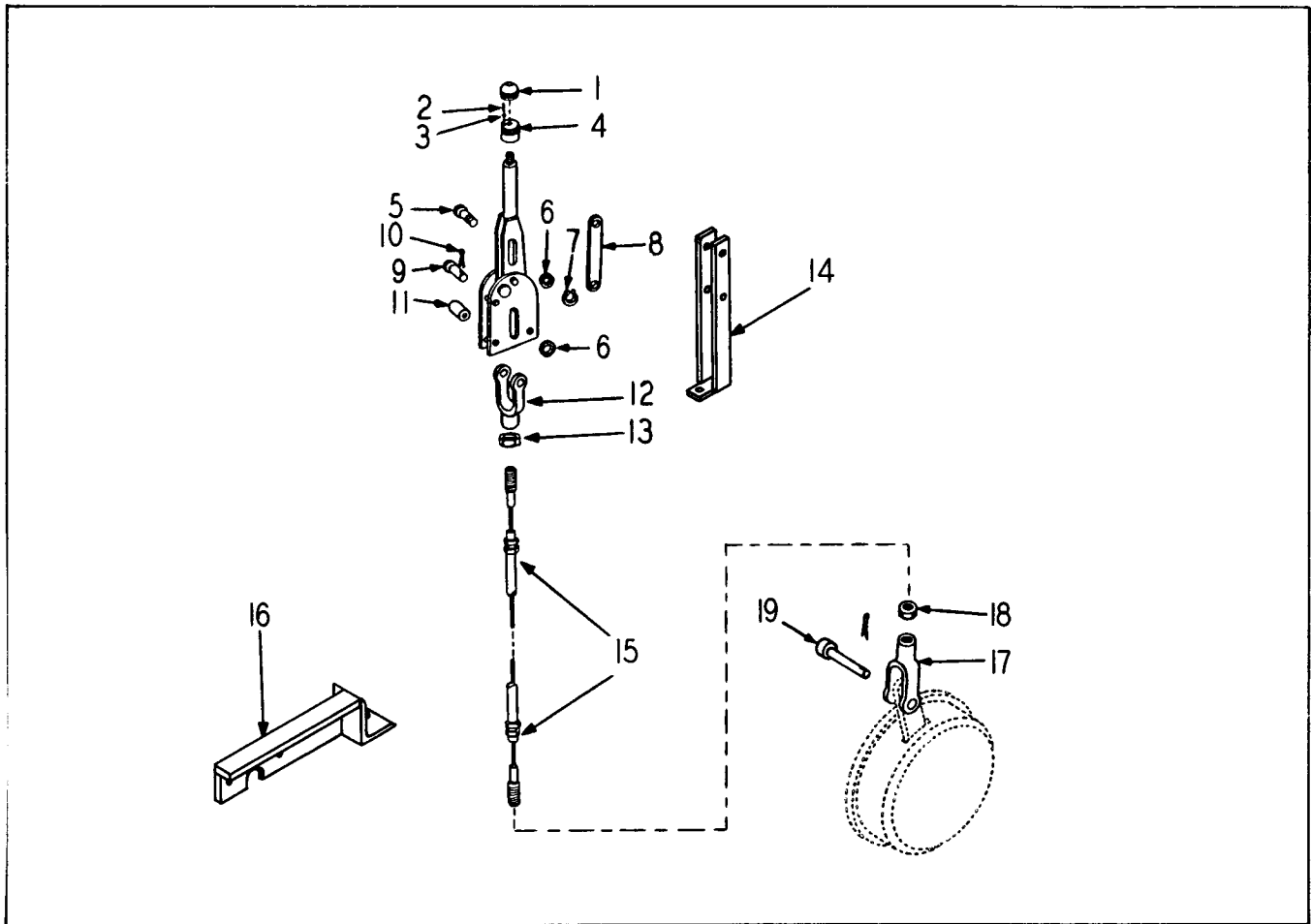
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 1        | HL-3343  | KNOB .....  | 1    |
| 2        | 214295H1 | LEVER, Range (Includes Item 3) .....              | 1    |
| 3        | 144244H1 | BUSHING .....                                     | 2    |
| 4        | 158396H1 | BALL JOINT .....                                  | 1    |
| 5        | WL-15    | WASHER, Lock .....                                | 1    |
| 6        | H - 15   | NUT .....   | 1    |
| 7        | H - 15   | NUT .....   | 1    |
| 8        | 214294H1 | CABLE .....                                       | 1    |
| 9        | H - 15   | NUT .....   | 1    |
| 10       | 213791H1 | YOKE .....  | 1    |
| 11       | HL-3486  | PIN .....   | 1    |
| 12       | 213877H1 | PLATE, Range .....                                | 1    |
|          | 105898H1 | SCREW (Range Plate) .....                         | 2    |
|          | 118492H1 | FITTING, Grease (Range Lever) .....               | 1    |
| 13       | HL-3343  | KNOB .....  | 1    |
| 14       | 214298H1 | LEVER, Forward & Reverse (Includes Item 15) ..... | 1    |
| 15       | 144244H1 | BUSHING .....                                     | 2    |
| 16       | 158396H1 | BALL JOINT .....                                  | 1    |
| 17       | WL-15    | WASHER, Lock .....                                | 1    |
| 18       | H - 15   | NUT .....   | 1    |
| 19       | H - 15   | NUT .....   | 1    |
| 20       | 214294H1 | CABLE .....                                       | 1    |
| 21       | H - 15   | NUT .....   | 1    |
| 22       | 213791H1 | YOKE .....  | 1    |
| 23       | HL-3486  | PIN, Yoke .....                                   | 1    |
| 24       | 213878H1 | PLATE, Forward & Reverse .....                    | 1    |
|          | 105898H1 | SCREW (Forward & Reverse Plate) .....             | 2    |
| 25       | OR4-25   | "O" RING .....                                    | 3    |
| 26       | 213835H1 | PIN .....   | 1    |
|          | S-1518   | SCREW, Cap .....                                  | 1    |
|          | WF-16    | WASHER, Flat .....                                | 1    |
|          | E - 15   | NUT (Replaces H - 15) .....                       | 1    |
| 27       | 144406H1 | "U" BOLT .....                                    | 1    |
| 28       | 144069H1 | BLOCK, Bearing .....                              | 1    |
| 29       | 144070H1 | BLOCK, Bearing .....                              | 1    |
| 30       | 146989H1 | PLATE .....                                       | 1    |
| 31       | E - 25   | NUT .....   | 2    |
|          | 118492H1 | FITTING, Grease (Forward & Reverse Lever) .....   | 1    |
|          | 157808H1 | PLUG, Rubber (Steering Column) .....              | 3    |



STEERING LINKAGE

STEERING LINKAGE

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 171660H1 | DRAG LINK (Includes Items 2 thru 5)                      | 1    |
| 2        | 127676H1 | GUIDE, Spring  | 2    |
| 3        | 127675H1 | SPRING   | 2    |
| 4        | 127673H1 | BEARING  | 4    |
| 5        | 174487H1 | PLUG, Adjusting  | 2    |
|          | 153494H1 | SEAL, Grease - drag link                                 | 2    |
|          | 118491H1 | FITTING, Grease - drag link                              | 2    |
| 6        | 177259H1 | STUD, Ball   | 1    |
| 7        | E-112    | NUT  | 1    |
| 8        | 191208H2 | CLEVIS   | 4    |
| 9        | 191281H1 | PIN  | 4    |
| 10       | WF-312   | WASHER, Flat   | 4    |
| 11       | E-312    | NUT  | 4    |
| 12       | 119694H1 | FITTING, Grease  | 4    |
| 13       | S-165    | SCREW, Cap   | 4    |
| 14       | WL-16    | WASHER, Lock   | 4    |
| 15       | 191282H1 | TAB LOCK   | 4    |
| 16       |          | CYLINDER, Steering (See Page 11-5)                       | 2    |
| 17       | 191317H1 | BRACKET, Steering Cylinder Mounting (Includes next item) | 1    |
|          | 191211H1 | BUSHING  | 2    |
|          | S-21212  | SCREW, Cap   | 4    |
|          | WL-112   | WASHER, Lock   | 4    |

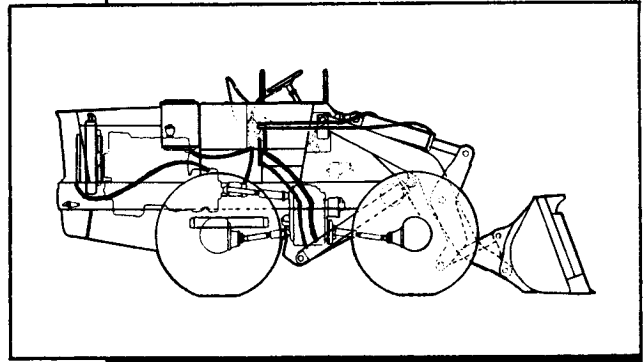


PARKING BRAKE LINKAGE

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 115086H1 | LEVER, Parking Brake Assembly, Includes Items 1 thru 11 | 1    |
| 1        | 160925H1 | CAP, Adjusting Knob                                     | 1    |
| 2        | 160932H1 | SPRING  | 1    |
| 3        | 131525H1 | BALL, Chrome  | 1    |
| 4        | 160926H1 | BASE, Adjusting Knob                                    | 1    |
| 5        | 150742H1 | PIN, Foot   | 1    |
| 6        | WF-35    | WASHER, Flat  | 2    |
| 7        | 150744H1 | RING, Retaining   | 1    |
| 8        | 173775H1 | LINK  | 1    |
| 9        | 141455H1 | PIN   | 1    |
| 10       | CP-36    | PIN, Cotter   | 1    |
| 11       | 134704H1 | SPACER  | 2    |
|          | S-1620   | SCREW, Cap  | 2    |
|          | H - 16   | NUT   | 2    |
|          | WL-16    | WASHER, Lock  | 2    |
| 12       | HL-1263  | CLEVIS  | 1    |
| 13       | H - 15   | NUT   | 1    |
| 14       | 187562H1 | ANCHOR, Lever End                                       | 1    |
| 15       | 204664H2 | CABLE   | 1    |
| 16       | 211925H1 | ANCHOR, Brake End (Replaced 190303H1)                   | 1    |
|          | 137344H1 | SPACER  | 2    |
|          | S-2614   | SCREW, Cap  | 2    |
| 17       | HL-3485  | CLEVIS  | 1    |
| 18       | H - 16   | NUT   | 1    |
| 19       | HL-3486  | PIN & COTTER  | 1    |

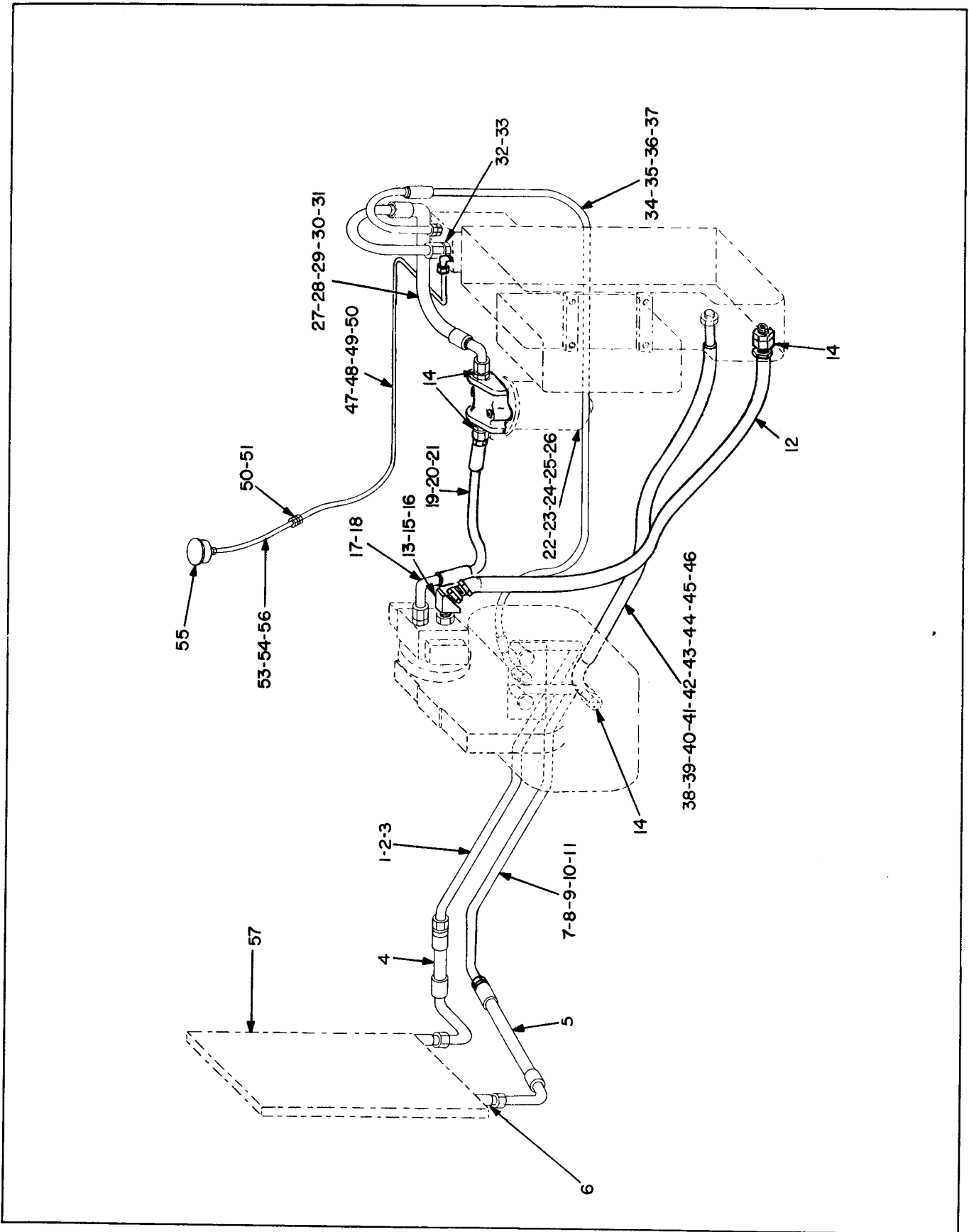


**HYDRAULIC LINES  
& FITTINGS**



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| COOLER LINES .....        | 10-3        |
| STEERING LINES .....      | 10-11       |



TORQUE CONVERTER LINES

TORQUE CONVERTER LINES

| ITEM NO.                               | PART NO. | PART NAME   | Qty. |
|--|----------|---|------|
| LINE-CONVERTER TO COOLER               |          |   |      |
| 1                                      | 206556H1 | TUBE ASSEMBLY, I. H. Engine .....                                   | 1    |
| 1                                      | 206636H1 | TUBE ASSEMBLY, Cummins Engine .....                                 | 1    |
| 1                                      | 206664H2 | TUBE ASSEMBLY, Detroit Diesel Engine .....                          | 1    |
| 2                                      | OR4-24   | "O" RING .....  | 1    |
| 3                                      | 115706H1 | FLANGE, Split .....   | 2    |
|  | S-2610   | SCREW, Cap .....  | 4    |
|  | WL-16    | WASHER, Lock .....  | 4    |
| 4                                      | 206557H1 | HOSE ASSEMBLY .....   | 1    |
| LINE-COOLER TO CONVERTER               |          |   |      |
| 5                                      | 221114H1 | HOSE ASSEMBLY (Replaces 206558H1 on Units with 220328H1 Oil Cooler) | 1    |
| 6                                      | 298-12   | ADAPTER (On units with 220328H1 Oil Cooler) .....                   | 1    |
| 7                                      | 206559H1 | TUBE ASSEMBLY, I. H. Engine .....                                   | 1    |
| 7                                      | 206637H1 | TUBE ASSEMBLY, Cummins Engine .....                                 | 1    |
| 7                                      | 206665H1 | TUBE ASSEMBLY, Detroit Diesel Engine .....                          | 1    |
| 8                                      | OR4-24   | "O" RING .....  | 1    |
| 9                                      | 115706H1 | FLANGE, Split .....   | 2    |
|  | S-2610   | SCREW, Cap .....  | 4    |
|  | WL-16    | WASHER, Lock .....  | 4    |
| 10                                     | 204720H1 | CLAMP, Tubes to Frame Channel .....                                 | 2    |
| 11                                     | 205990H1 | PLATE .....   | 1    |
|  | S-1630   | SCREW, Cap .....  | 1    |
|  | WF-16    | WASHER, Flat .....  | 1    |
|  | E - 16   | NUT .....   | 1    |
| SUCTION LINE - TRANS. TO CONV. PUMP    |          |   |      |
| 12                                     | 131072H1 | HOSE, I. H. Engine (Replaces 209612H1) .....                        | 1    |
| 12                                     | 221015H1 | HOSE, Cummins Engine (Replaces 209563H1) .....                      | 1    |
| 12                                     | 216604H1 | HOSE, Detroit Diesel Engine (replaces 209613H1) .....               | 1    |
| 13                                     | 241-16   | ADAPTER, 45° (Replaces 200327H1 Insert, 90°) ..                     | 1    |
| 14                                     | 205-16   | ADAPTER, Straight .....   | 4    |
| 15                                     | 168815H1 | CLAMP, Hose .....   | 4    |
| 16                                     | 142846H1 | CLAMP, Hose to Bolster Support .....                                | 1    |
|  | S-165    | SCREW, Cap .....  | 1    |
|  | WL-16    | WASHER, Lock .....  | 1    |
| LINE-CONV. PUMP FILTER TO TRANSMISSION |          |   |      |
| 17                                     | OR2-16   | "O" RING .....  | 1    |
| 18                                     | 205-16   | ADAPTER .....   | 1    |
| 19                                     | 209584H1 | HOSE, I. H. Engine .....  | 1    |
| 19                                     | 209562H1 | HOSE, Cummins Engine .....  | 1    |
| 19                                     | 209585H1 | HOSE, Detroit Diesel Engine .....                                   | 1    |
| 20                                     | 206-15   | ADAPTER .....   | 1    |
| 21                                     | OR2-12   | "O" RING .....  | 1    |
| 22                                     | 208952H1 | FILTER (Includes Items 21 thru 24) .....                            | 1    |
| 23                                     | OR3-14   | "O" RING .....  | 1    |
| 24                                     |          | HEAD ASSEMBLY .....   | 1    |
| 25                                     | 185530H1 | HOUSING .....   | 1    |
| 26                                     | 185531H1 | ELEMENT .....   | 1    |
|  | S-2810   | SCREW, Cap .....  | 2    |
|  | WL-18    | WASHER, Lock .....  | 2    |
| 27                                     | OR2-12   | "O" RING .....  | 1    |
| 28                                     | 206-15   | ADAPTER .....   | 1    |
| 29                                     | 204725H2 | HOSE ASSEMBLY .....   | 1    |
| 30                                     | 205-16   | ADAPTER .....   | 1    |
| 31                                     | OR2-16   | "O" RING .....  | 1    |

S/N's 21F-03271  
& Up

} Filter Mounting

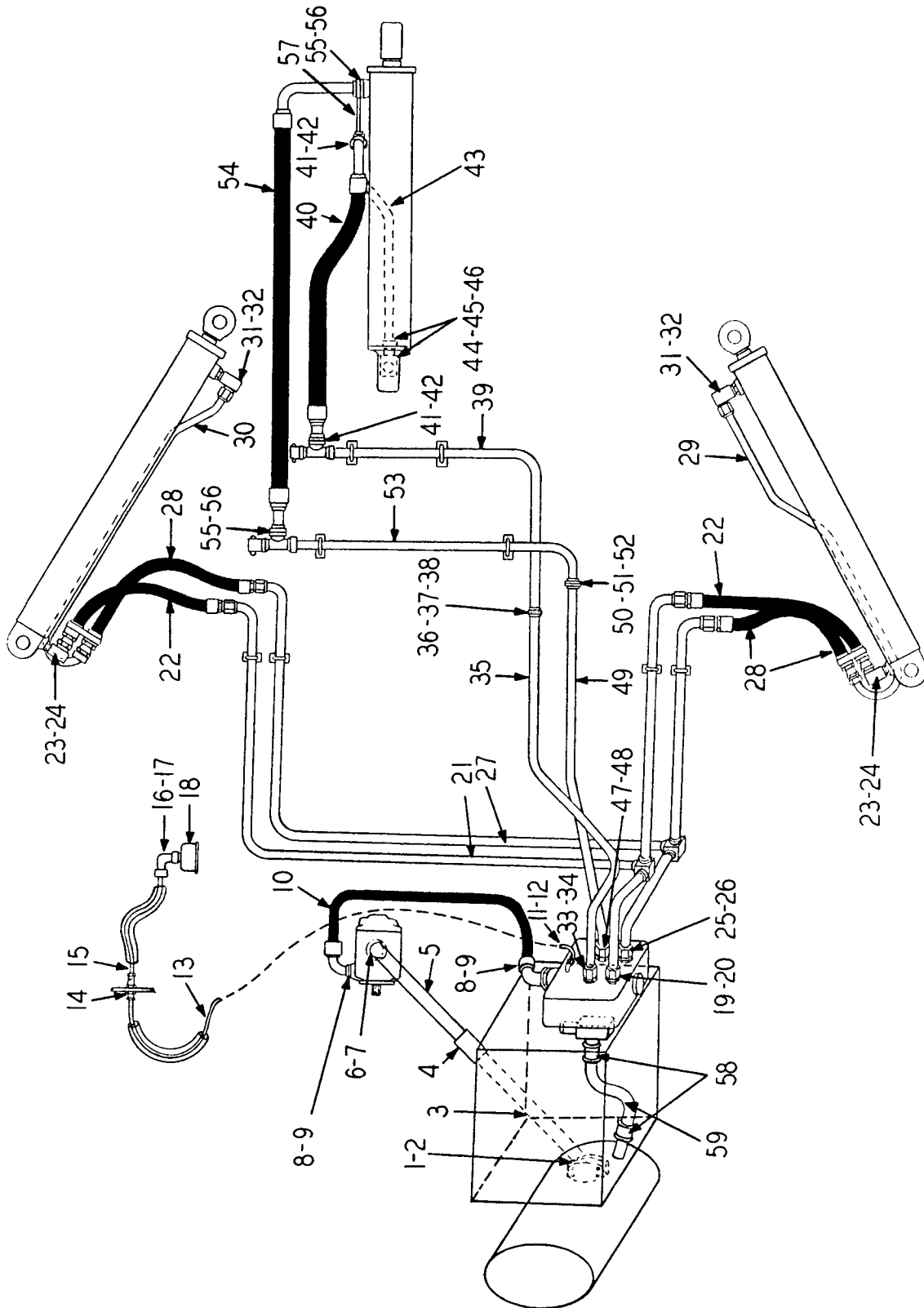
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TORQUE CONVERTER LINES (Continued)

| ITEM NO.  | PART NO.   | PART NAME   | Qty. |
|---|------------|---|------|
| <b>CHARGING LINE-VALVE TO CONVERTER</b>   |            |   |      |
| 32  | 206-21     | ADAPTER .....   | 1    |
| 33  | OR2-12     | "O" RING .....  | 1    |
| 34  | 204743H1   | HOSE ASSEMBLY, I. H. & Cummins Engine .....               | 1    |
| 34  | 206667H1   | HOSE ASSEMBLY, Detroit Diesel Engine.....                 | 1    |
| 35  | 134054H1   | CLIP, Hose to Frame Channel .....                         | 1    |
| 36  | 205-6      | ADAPTER .....   | 1    |
| 37  | OR2-6      | "O" RING .....  | 1    |
| <b>LINE-CONVERTER DRAIN</b>   |            |   |      |
| 38  | 205-16     | ADAPTER .....   | 1    |
| 39  | OR2-16     | "O" RING .....  | 1    |
| 40  | 209518H1   | INSERT, 90° .....   | 1    |
| 41  | 161178H1   | CLAMP .....   | 1    |
| 42  | 183284H1   | HOSE, I. H. & Cummins Engine .....                        | 1    |
| 42  | 209614H1   | HOSE, Detroit Diesel Engine .....                         | 1    |
| 43  | 140860H1   | CLAMP, Hose to Bolster Support.....                       | 1    |
|   | S-165      | SCREW, Cap .....  | 1    |
|   | WL-16      | WASHER, Lock .....  | 1    |
| 44  | 161178H1   | CLAMP .....   | 1    |
| 45  | 177735H1   | ADAPTER .....   | 1    |
| 46  | OR2-16     | "O" RING .....  | 1    |
| <b>LINE-FILTER TO PRESSURE GAUGE</b>  |            |   |      |
| 47  | * 298-1    | ADAPTER, Elbow 90° .....                                  | 1    |
| 48  | * 192507H1 | TUBE ASSEMBLY .....                                       | 1    |
| 49  | * 208-1    | ADAPTER .....   | 1    |
| 50  | * 172835H1 | COUPLING .....  | 1    |
| 51  | * 207106H1 | TUBE .....  | 1    |
| 52  | 172825H1   | BULKHEAD UNION .....                                      | 1    |
| 53  | 180227H1   | TUBE .....  | 1    |
| 54  | 181084H1   | ELBOW .....   | 1    |
| 55  | 188328H1   | GAUGE .....   | 1    |
| 56  | 177748H1   | CLIP, Tube to Frame .....                                 | 2    |
|   | WL-15      | WASHER, Lock .....  | 2    |
|   | H - 25     | NUT .....   | 2    |
| } Not used on later units   |            |   |      |
| <b>OIL COOLER</b>   |            |   |      |
| 57  | 220328H1   | OIL COOLER (Replaces 200075H1) S/N's 21F-03181 & Up ..... | 1    |
|   | S-168      | SCREW, Cap .....  | 4    |
|   | WL-16      | WASHER, Lock .....  | 4    |
|   | WF-16      | WASHER, Flat .....  | 4    |
|   | 112002H1   | PETCOCK, Cooler .....                                     | 1    |
|   | 103487H1   | ELBOW, Street 90° (Cooler to Petcock) .....               | 1    |
| <p>* Items 47 thru 51 were replaced by 172832H1 Elbow (1) and 213777H1 Tube (1) on later units.</p> |            |   |      |

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NOTES



BOOM & BUCKET LINES

BOOM & BUCKET LINES

| ITEM NO.                            | PART NO. | PART NAME   | Qty. |
|-------------------------------------|----------|---|------|
| SUCTION LINE-RESERVOIR TO PUMP      |          |   |      |
| 1                                   | OR3-10   | "O" RING .....  | 1    |
| 2                                   | 135006H1 | FLANGE, Split .....   | 2    |
|                                     | S-2812   | SCREW, Cap .....  | 4    |
|                                     | WL-18    | WASHER, Lock .....  | 4    |
| 3                                   | 215488H1 | TUBE ASSEMBLY (IH & Cummins) Replaced 206516H1<br>- S/N 21FH-3025 & Up .....                      | 1    |
| 3                                   | 215479H1 | TUBE ASSEMBLY (Det. Diesel) Replaced 206521H1 - S/N 21FG-3025 & Up.                               | 1    |
| 4                                   | 176104H3 | COUPLING (Includes next 3 items) (IH & Cummins) Replaced<br>176104H2 - S/N 21FH-2901 & Up .....   | 1    |
|                                     | 180704H2 | COUPLING (Replaced 180704H1 - S/N 21FH-2901 & Up .....  | 2    |
|                                     | 180705H2 | SEAL ASSEMBLY (Replaced 180705H1) - S/N 21FH-2901 & Up .....                                      | 2    |
|                                     | 180706H1 | SLEEVE .....  | 1    |
| 4                                   | 207050H3 | COUPLING (Includes next 2 items) (Detroit Diesel) Replaced 207050H2 -<br>S/N 21F6-2901 & Up ..... | 1    |
|                                     | 180704H2 | COUPLING, Replaced 180704H1 - S/N 21F6-2901 & Up .....  | 1    |
|                                     | 180705H2 | SEAL ASSEMBLY, Replaced 180705H1 - S/N 21F6-2901 & Up .....                                       | 1    |
| 5                                   | 215487H1 | TUBE ASSEMBLY (IH & Det. Diesel) Replaced 206517H2 - S/N<br>21FH-3025 & Up .....                  | 1    |
| 5                                   | 215486H1 | TUBE ASSEMBLY (Cummins) Replaced 206519H2 - S/N<br>21FC-3025 & Up .....                           | 1    |
| 6                                   | OR3-15   | "O" RING .....  | 1    |
| 7                                   | 161586H1 | FLANGE, Split .....   | 2    |
|                                     | S-21014  | SCREW, Cap .....  | 4    |
|                                     | WL-110   | WASHER, Lock .....  | 4    |
| HIGH PRESSURE LINE-PUMP TO VALVE    |          |   |      |
| 8                                   | OR4-27   | "O" RING .....  | 1    |
| 9                                   | 128542H1 | FLANGE, Split .....   | 2    |
|                                     | S-2711   | SCREW, Cap .....  | 4    |
|                                     | WL-17    | WASHER, Lock .....  | 4    |
| 10                                  | 206518H2 | HOSE ASSEMBLY, I.H. Engine .....  | 1    |
| 10                                  | 206520H2 | HOSE ASSEMBLY, Cummins Engine .....   | 1    |
| 10                                  | 206522H1 | HOSE ASSEMBLY, Detroit Diesel Engine .....  | 1    |
| GAUGE LINE-MAIN PRESSURE            |          |   |      |
| 11                                  | 132667H1 | BUSHING, Reducer .....  | 1    |
| 12                                  | 165369H1 | CONNECTOR .....   | 1    |
| 13                                  | 189302H1 | TUBE .....  | 1    |
| 14                                  | 172825H1 | UNION, Bulkhead .....   | 1    |
| 15                                  | 186227H1 | TUBE .....  | 1    |
| 16                                  | 172832H1 | ELBOW .....   | 1    |
| 17                                  | 203425H1 | COUPLING .....  | 1    |
| 18                                  | 205495H1 | GAUGE, Replaces 161609H1 .....  | 1    |
|                                     | 138459H1 | CLIP, Seat Deck to Tube .....   | 2    |
|                                     | S-148    | SCREW, Cap .....  | 2    |
|                                     | WL-14    | WASHER, Lock .....  | 2    |
|                                     | H - 14   | NUT .....   | 2    |
|                                     | 136139H1 | CLIP, Sleeve to Flow Divider .....  | 1    |
|                                     | 175767H1 | TUBE, Sleeve for Gauge Line .....   | 1    |
|                                     | 180118H1 | TUBE, Sleeve for Gauge Line in Battery Box .....  | 1    |
| LINE-VALVE TO BOOM CYLINDER (RAISE) |          |   |      |
| 19                                  | OR4-24   | "O" RING .....  | 1    |
| 20                                  | 115706H1 | FLANGE, Split .....   | 2    |
|                                     | S-2610   | SCREW, Cap .....  | 4    |
|                                     | WL-16    | WASHER, Lock .....  | 4    |
| 21                                  | 194271H1 | TUBE ASSEMBLY .....   | 1    |
| 22                                  | 134577H1 | HOSE .....  | 2    |
| 23                                  | 291-12   | ELBOW .....   | 2    |
| 24                                  | OR2-12   | "O" RING .....  | 2    |

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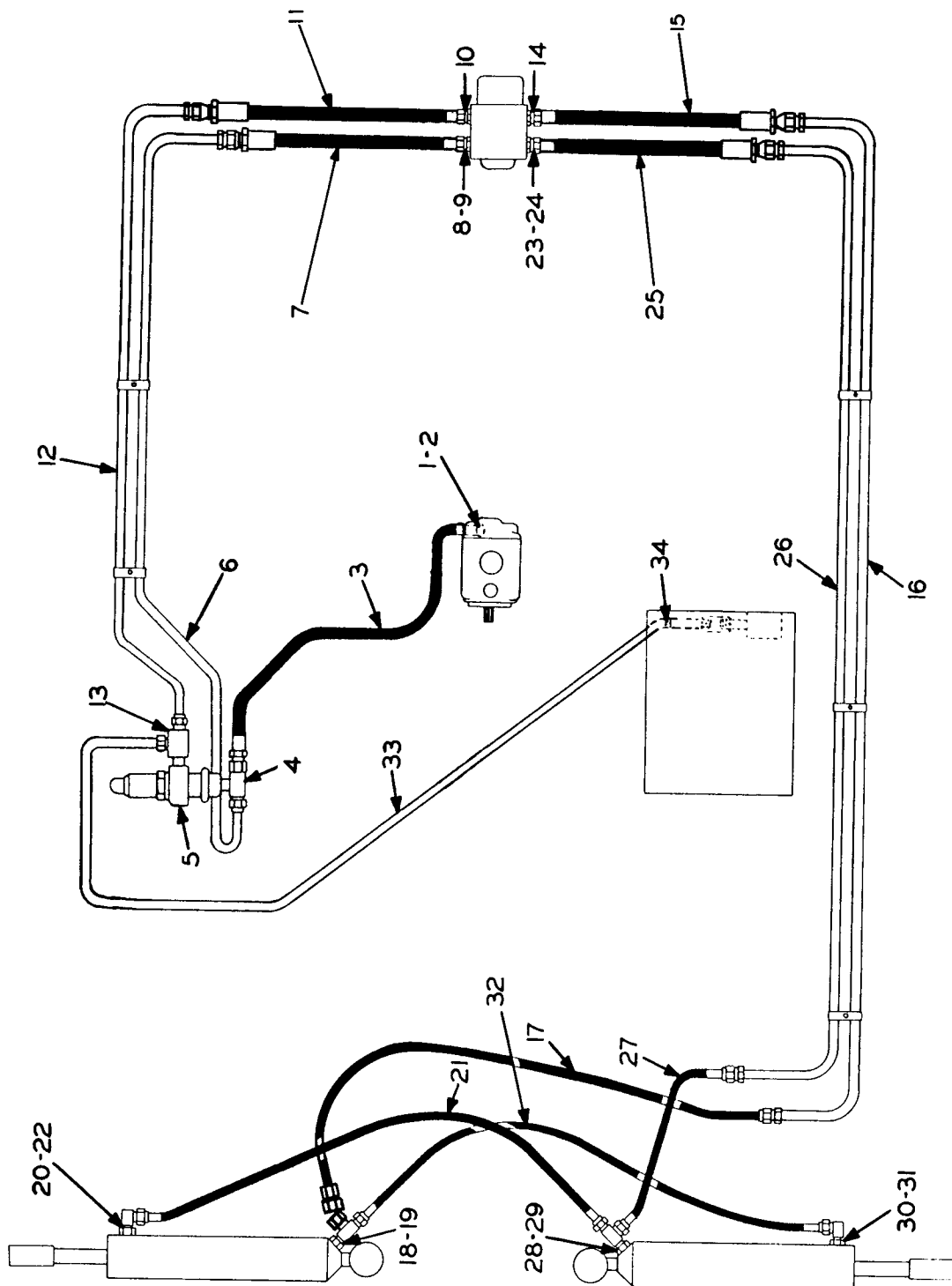
BOOM & BUCKET LINES (Continued)

| ITEM NO.                              | PART NO. | PART NAME  | Qty. |
|---------------------------------------|----------|--|------|
| LINE-VALVE TO BOOM CYLINDER (LOWER)   |          |  |      |
| 25                                    | OR4-24   | "O" RING .....   | 1    |
| 26                                    | 115706H1 | FLANGE, Split .....  | 2    |
|                                       | S-2610   | SCREW, Cap .....   | 4    |
|                                       | WL-16    | WASHER, Lock .....   | 4    |
| 27                                    | 194272H1 | TUBE ASSEMBLY .....  | 1    |
| 28                                    | 134577H1 | HOSE .....   | 2    |
| 29                                    | 172517H1 | TUBE ASSEMBLY, R. H. ....                                    | 1    |
| 30                                    | 172518H1 | TUBE ASSEMBLY, L. H. ....                                    | 1    |
| 31                                    | 291-12   | ELBOW .....  | 2    |
| 32                                    | OR2-12   | "O" RING .....   | 2    |
| LINE-VALVE TO BUCKET CYLINDER (CLOSE) |          |  |      |
| 33                                    | OR4-24   | "O" RING .....   | 1    |
| 34                                    | 115706H1 | FLANGE, Split .....  | 2    |
|                                       | S-2610   | SCREW, Cap .....   | 4    |
|                                       | WL-16    | WASHER, Lock .....   | 4    |
| 35                                    | 193520H1 | TUBE ASSEMBLY .....  | 1    |
| 36                                    | 153680H1 | PLATE, Connector .....                                       | 1    |
| 37                                    | OR4-24   | "O" RING .....   | 2    |
| 38                                    | 115706H1 | FLANGE, Split .....  | 4    |
|                                       | S-1614   | SCREW, Cap .....   | 4    |
|                                       | WL-16    | WASHER, Lock .....   | 4    |
|                                       | H - 16   | NUT .....  | 4    |
| 39                                    | 193521H1 | TUBE ASSEMBLY .....  | 1    |
| 40                                    | 172525H1 | HOSE ASSEMBLY .....  | 1    |
| 41                                    | OR4-24   | "O" RING .....   | 2    |
| 42                                    | 115706H1 | FLANGE, Split .....  | 4    |
|                                       | S-269    | SCREW, Cap .....   | 12   |
|                                       | WL-16    | WASHER, Lock .....   | 12   |
| 43                                    | 875500C1 | TUBE ASSEMBLY (Replaces 194014H1) S/N's 21F-03184 & Up ..... | 1    |
| 44                                    | OR4-24   | "O" RING .....   | 1    |
| 45                                    | S-147    | SCREW, Cap .....   | 2    |
| 46                                    | WL-14    | WASHER, Lock .....   | 2    |
|                                       | H - 14   | NUT .....  | 2    |
| LINE-VALVE TO BUCKET CYLINDER (DUMP)  |          |  |      |
| 47                                    | OR4-24   | "O" RING .....   | 1    |
| 48                                    | 115706H1 | FLANGE, Split .....  | 2    |
|                                       | S-2610   | SCREW, Cap .....   | 4    |
|                                       | WL-16    | WASHER, Lock .....   | 4    |
| 49                                    | 193519H1 | TUBE ASSEMBLY .....  | 1    |
| 50                                    | 153680H1 | PLATE, Connector .....                                       | 1    |
| 51                                    | OR4-24   | "O" RING .....   | 2    |
| 52                                    | 115706H1 | FLANGE, Split .....  | 4    |
|                                       | S-1614   | SCREW, Cap .....   | 4    |
|                                       | WL-16    | WASHER .....   | 4    |
|                                       | H - 16   | NUT .....  | 4    |
| 53                                    | 193521H1 | TUBE ASSEMBLY .....  | 1    |
| 54                                    | 172525H1 | HOSE .....   | 1    |
| 55                                    | OR4-24   | "O" RING .....   | 3    |
| 56                                    | 115706H1 | FLANGE, Split .....  | 4    |
|                                       | S-269    | SCREW, Cap (Tube End) .....                                  | 4    |
|                                       | S-2611   | SCREW, Cap (Cylinder End) .....                              | 4    |
|                                       | WL-16    | WASHER, Lock .....   | 8    |
| 57                                    | 193523H1 | PLATE, Mounting .....  | 1    |
| LINE-VALVE TO RESERVOIR               |          |  |      |
| 58                                    | 158094H1 | CLAMP .....  | 4    |
| 59                                    | 194647H1 | HOSE .....   | 1    |
| (Continued on following page)         |          |  |      |



BOOM & BUCKET LINES (Continued)

| ITEM NO. | PART NO. | PART NAME                          | Qty. |
|----------|----------|------------------------------------|------|
|          |          | TUBE ASSEMBLY CLAMPS-BOOM CYLINDER |      |
|          | 172526H1 | "U" BOLT .....                     | 4    |
|          | 172527H1 | SPACER .....                       | 12   |
|          | E - 25   | NUT .....                          | 8    |
|          |          | CROSSPIPE CLAMPS-BUCKET CYLINDER   |      |
|          | 199276H1 | "U" BOLT .....                     | 4    |
|          | 199277H1 | LUG, Spacer .....                  | AR   |
|          | E - 15   | NUT .....                          | 8    |
|          |          | BOOM CYLINDER TUBE TO HOSES-MTG.   |      |
|          | 172577H2 | CLAMP .....                        | 4    |
|          | S-1612   | SCREW, Cap .....                   | 2    |
|          | E - 16   | NUT .....                          | 2    |



STEERING LINES

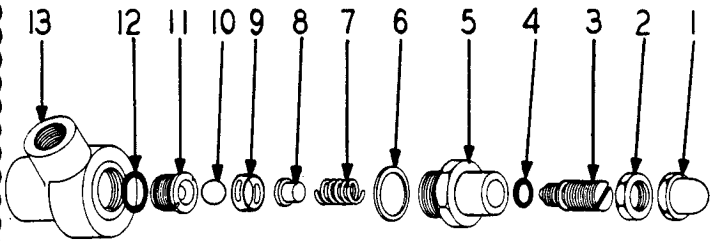
STEERING LINES

| ITEM NO.                                   | PART NO. | PART NAME   | Qty. |
|--|----------|---|------|
| LINE-PUMP TO RELIEF VALVE                  |          |   |      |
| 1  | OR4-19   | "O" RING .....  | 1    |
| 2  | 115701H1 | FLANGE, Split Half .....                                | 2    |
|  | S-269    | SCREW, Cap .....  | 4    |
|  | WL-16    | WASHER, Lock .....                                      | 4    |
| 3  | 206589H1 | HOSE, I. H. Engine .....                                | 1    |
| 3  | 206439H1 | HOSE, G. M. Engine .....                                | 1    |
| 3  | 206441H1 | HOSE, Cummins Engine .....                              | 1    |
| 4  | 181340H1 | TEE .....   | 1    |
|  | 290-10   | ELBOW .....   | 1    |
| 5  | 130167H1 | VALVE, Relief (See End of list for Service Parts) ..... | 1    |
|  | 177020H1 | "U" BOLT .....  | 1    |
|  | E - 24   | NUT .....   | 2    |
| LINE-RELIEF VALVE TO STEERING VALVE        |          |   |      |
| 6  | 181773H1 | TUBE ASSEMBLY .....                                     | 1    |
| 7  | 156436H1 | HOSE .....  | 1    |
| 8  | 291-10   | ELBOW .....   | 1    |
| 9  | OR2-10   | "O" RING .....  | 1    |
| LINE-STEERING VALVE TO RELIEF VALVE        |          |   |      |
| 10   | OR2-10   | "O" RING .....  | 1    |
|  | 206-16   | ADAPTER .....   | 1    |
| 11   | 194434H1 | HOSE .....  | 1    |
| 12   | 194433H1 | TUBE ASSEMBLY .....                                     | 1    |
| 13   | 194436H1 | TEE, Fitting .....                                      | 1    |
| LINE-STEERING VALVE TO CYLINDER R. H. TURN |          |   |      |
| 14   | OR2-8    | "O" RING .....  | 1    |
| 15   | 181884H1 | HOSE .....  | 1    |
| 16   | 181776H1 | TUBE ASSEMBLY .....                                     | 1    |
| 17   | 189212H1 | HOSE .....  | 1    |
| 18   | 216-6    | TEE .....   | 1    |
| 19   | OR2-6    | "O" RING .....  | 1    |
| 20   | 178267H1 | ADAPTER, 90° .....                                      | 1    |
| 21   | 189212H1 | HOSE .....  | 1    |
| 22   | OR2-6    | "O" RING .....  | 1    |
|  | P - 12   | PLUG .....  | 1    |
| LINE-STEERING VALVE TO CYLINDER L. H. TURN |          |   |      |
| 23   | OR2-8    | "O" RING .....  | 1    |
| 24   | 291-8    | ELBOW .....   | 1    |
| 25   | 131147H1 | HOSE .....  | 1    |
| 26   | 181776H1 | TUBE ASSEMBLY .....                                     | 1    |
| 27   | 189212H1 | HOSE .....  | 1    |
| 28   | 216-6    | TEE .....   | 1    |
| 29   | OR2-6    | "O" RING .....  | 1    |
| 30   | OR2-6    | "O" RING .....  | 1    |
| 31   | 178267H1 | ADAPTER, 90° .....                                      | 1    |
| 32   | 189212H1 | HOSE .....  | 1    |
|  | P - 12   | PLUG .....  | 1    |
| LINE-RELIEF VALVE TO RESERVOIR             |          |   |      |
| 33   | 194435H1 | TUBE ASSEMBLY .....                                     | 1    |
| 34   | 134053H1 | CLAMP (Replaces 120418H1) .....                         | 1    |
|  | S-167    | SCREW, Cap .....  | 1    |
|  | WL-16    | WASHER, Lock .....                                      | 1    |
|  | H - 16   | NUT .....   | 1    |
|  | 194437H1 | HOSE .....  | 1    |
|  | 161178H1 | CLAMP .....   | 2    |

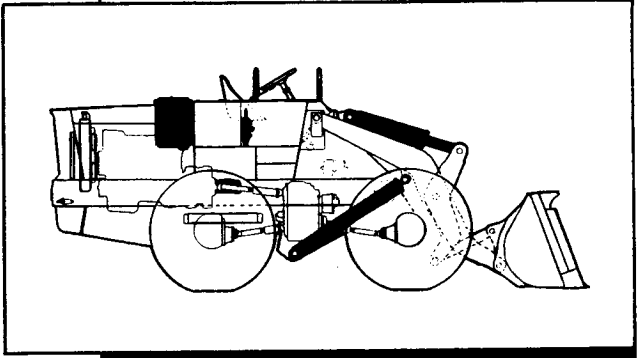
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STEERING LINES (Continued)

| ITEM NO. | PART NO. | PART NAME                                  | Qty. |
|----------|----------|--|------|
|          | 130167H1 | VALVE, Relief (Incls. Items 1 thru 13) (1) |      |
| 1        | 132643H1 | NUT, Acorn (1)                             |      |
| 2        | H-310-P  | NUT (1)                                    |      |
| 3        | 132641H1 | SCREW, Adjust (1)                          |      |
| 4        | OR4-9    | "O" RING (1)                               |      |
| 5        | 132639H1 | BODY (1)                                   |      |
| 6        | 132638H1 | GASKET (1)                                 |      |
| 7        | 132637H1 | SPRING (1)                                 |      |
| 8        | 134461H1 | SPACER, Spring (1)                         |      |
| * 9      | 164711H1 | COLLAR, Jam (1)                            |      |
| 10       | 162112H1 | BALL (1)                                   |      |
| 11       | 166230H1 | SEAT (1)                                   |      |
| 12       | OR2-8    | "O" RING (1)                               |      |
| 13       | NSS      | HOUSING (Order 130167H1) (1)               |      |
|          | 182468H1 | SERVICE REPAIR KIT (includes 4, 6, 12)     |      |
|          |          | * ITEM 9 DELETED ON LATER UNITS.           |      |
|          |          | CLAMPS AND FASTENERS                       |      |
|          | 102818H1 | CLAMP, Tubes to L. H. Channel .....        | 2    |
|          | 120622H1 | CLAMP, Tubes to L. H. Channel .....        | 1    |
|          | S-148    | SCREW, Cap .....                           | 2    |
|          | WL-14    | WASHER, Lock .....                         | 2    |
|          | H - 14   | NUT .....                                  | 2    |
|          | 136198H1 | CLAMP, Tubes to R. H. Channel .....        | 3    |
|          | S-148    | SCREW, Cap .....                           | 3    |
|          | WL-14    | WASHER, Lock .....                         | 3    |
|          | H - 14   | NUT .....                                  | 3    |

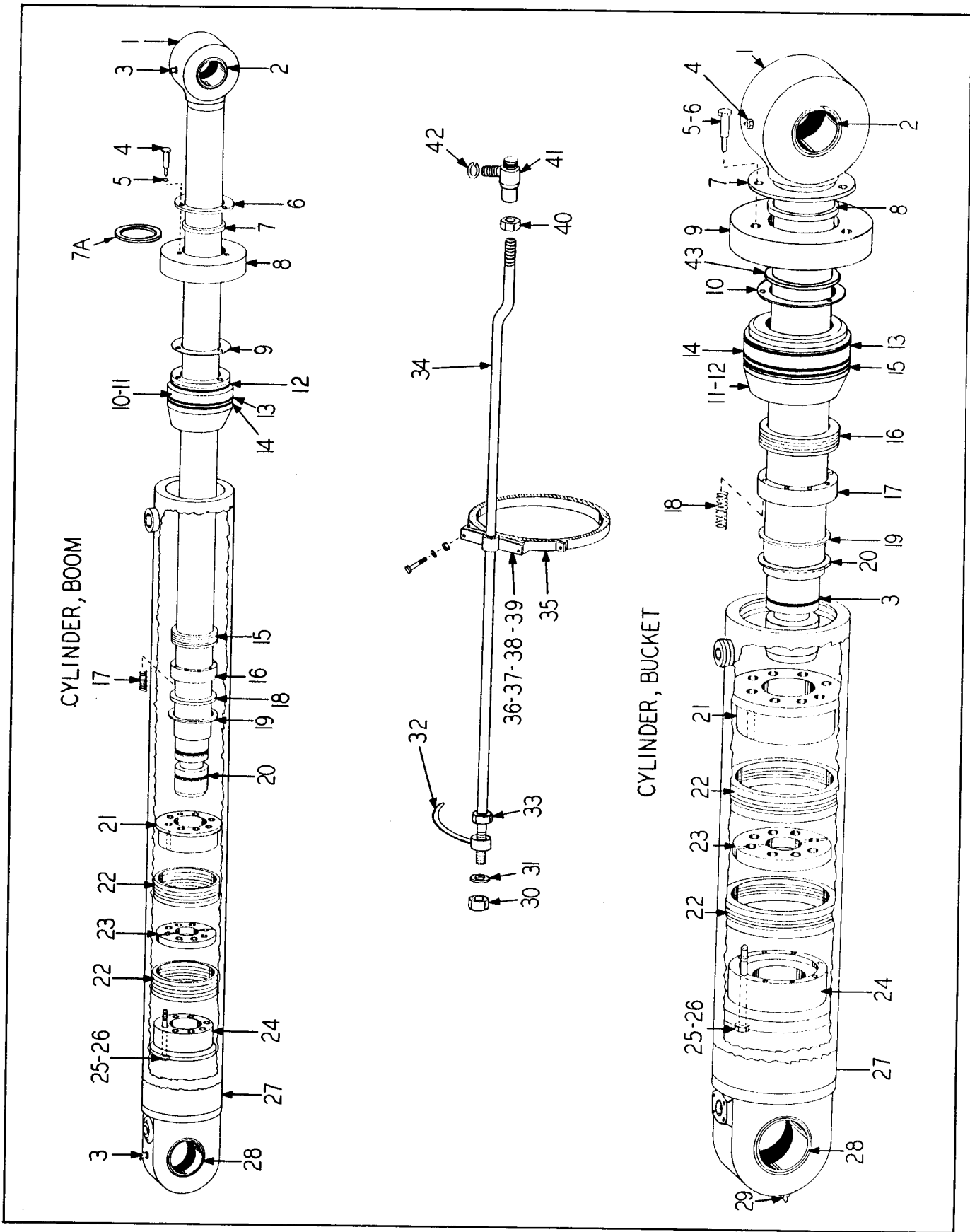


**HYDRAULIC  
COMPONENTS**



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BOOM & BUCKET CYLINDER

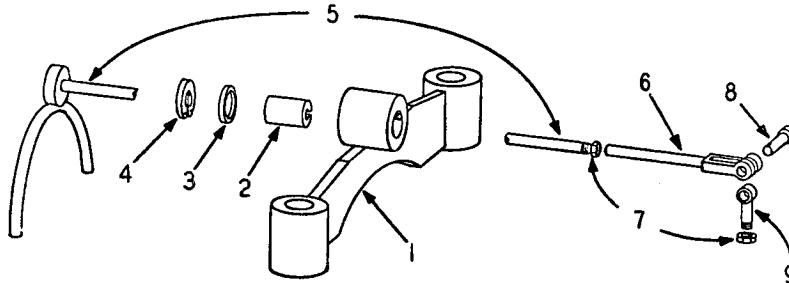
BOOM & BUCKET CYLINDER

| ITEM NO. | PART NO.  | PART NAME   | Qty. |
|----------|-----------|---|------|
|          | 171866H3  | CYLINDER, Boom assembly (Includes Items 1 thru 28) (Replaces 171866H2)  | 2    |
| 1        | 171887H1  | ROD, Piston assembly (Includes Item 2)  | 2    |
| 2        | 171890H1  | BUSHING   | 2    |
| 3        | 118491H1  | FITTING, Grease   | 4    |
| 4        | S-269     | SCREW, Cap  | 12   |
| 5        | 145703H1  | WASHER, Lock  | 12   |
| 6        | 171899H2  | RETAINER, Wiper   | 2    |
| 7        | 174686H1  | WIPER, Seal   | 2    |
| 7A       | 181276H1  | GASKET  | 2    |
| 8        | 171897H2  | CAP   | 2    |
| 9        | 174693H2  | GASKET, Cylinder cap assembly   | 2    |
| 10       | 171892H2  | CAP, Cylinder (Includes Item 11)  | 2    |
| 11       | 171895H1  | BUSHING   | 2    |
| 12       | 155989H1  | RING, Lock (Composed of 3 segments)   | 6    |
| 13       | 155990H1  | WASHER, Back-up   | 2    |
| 14       | OR4-88    | "O" RING  | 2    |
| 15       | 155991H5  | PACKING (Replaces 155991H4)   | 2    |
| 16       | 155993H2  | RING, Gland adj (Replaces 155993H1)   | 2    |
| 17       | 147912H1  | SPRING  | 16   |
| 18       | 171896H1  | RING, Back-up   | 2    |
| 19       | 122144H1  | RING, Retaining   | 2    |
| 20       | OR4-33    | "O" RING  | 4    |
| 21       | 171886H1  | PISTON, Half  | 2    |
| 22       | 176447H3  | PACKING, Piston (Replaces 176447H2)   | 4    |
| 23       | 171885H1  | RING, Lock  | 4    |
| 24       | 171880H1  | PISTON, Half  | 2    |
| 25       | S-2622-D  | SCREW, Cap  | 16   |
| 26       | LW-1614   | LOCKWIRE  | 2    |
| 27       | 171867H1  | CYLINDER, Includes Item 28  | 2    |
| 28       | 171871H1  | BUSHING   | 2    |
|          | 875010C91 | CYLINDER, Bucket Assembly (Includes Items 1-29) (replaces 177283H3 S/N's 21F-03158 thru 03280 except 03159, 69, 70, 79, 80) | 1    |
|          | 875010C92 | CYLINDER, Bucket Assembly (replaces 875010C91) S/N's 21F-03280 & Up   | 1    |
| 1        | 171904H2  | ROD, Piston assembly (Includes Item 2)  | 1    |
| 2        | 169564H1  | BUSHING   | 1    |
| 3        | OR4-37    | "O" RING  | 2    |
| 4        | 118491H1  | FITTING, Grease   | 1    |
| 5        | S-2611    | SCREW, Cap  | 6    |
| 6        | 145703H1  | WASHER, Lock  | 6    |
| 7        | 169560H2  | RETAINER, Wiper   | 1    |
| 8        | 174687H1  | SEAL, Wiper   | 1    |
| 9        | 169555H2  | CAP   | 1    |
| 10       | 174694H2  | GASKET, Cylinder cap assembly   | 1    |
| 11       | 169556H2  | CAP, Cylinder (Includes Item 12)  | 1    |
| 12       | 169559H1  | BUSHING   | 1    |
| 13       | 169566H1  | RING, Lock  | 3    |
| 14       | 141543H1  | WASHER, Back-up   | 1    |
| 15       | OR4-60    | "O" RING  | 1    |
| 16       | 147897H4  | PACKING, Rod (Replaces 147897H3)  | 1    |
| 16       | 147897H5  | PACKING, Rod (Replaces 147897H4 on units using 875010C92 cylinder assembly)   | 1    |
| 17       | 147863H3  | RING, Gland adj (replaces 147863H3 on units using 875010C92 cylinder assembly)  | 1    |
| 18       | 147912H1  | SPRING, Packing gland   | 8    |
| 19       | 169567H1  | RING, Back-up   | 1    |
| 20       | 169581H1  | RING, Retaining   | 1    |
| 21       | 169577H1  | PISTON, Half  | 1    |
| 22       | 176448H3  | PACKING, Piston (replaces 176448H2)   | 2    |
| 23       | 169580H1  | RING, Lock  | 2    |
| 24       | 169576H1  | PISTON, Half  | 1    |
| 25       | S-2830-D  | SCREW, Cap  | 8    |
| 26       | LW-1316   | WIRE, Lock  | 1    |
| 27       | 875011C1  | CYLINDER (Includes Item 28) (S/N 21F-03158 & Up, except 03159, 69, 70, 79, 80) (replaces 177284H1)                          | 1    |
| 28       | 169570H1  | BUSHING   | 1    |
| 29       | 118495H1  | FITTING, Grease   | 1    |
|          | 178905H1  | GASKET  | 1    |

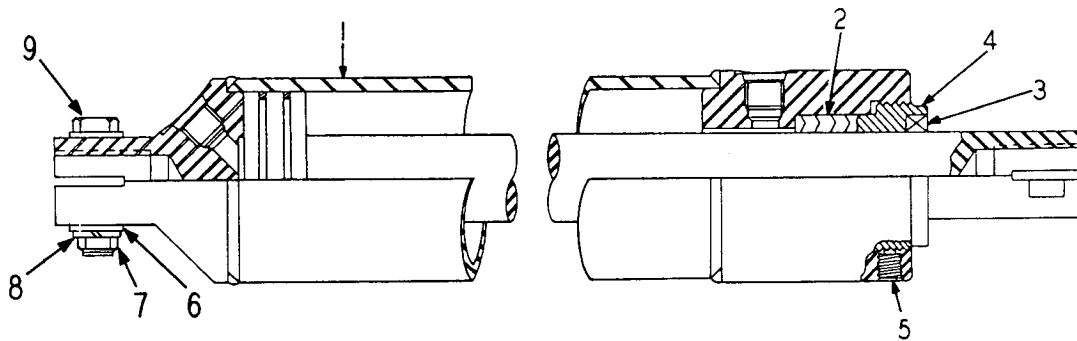
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BOOM & BUCKET CYLINDER (Continued)

| ITEM NO.  | PART NO. | PART NAME  | Qty. |
|---|----------|--|------|
| BUCKET POSITION INDICATOR                             |          |  |      |
| 30  | H-310    | NUT .....  | 1    |
| 31  | WL-110   | WASHER, Lock .....                                 | 1    |
| 32  | 153275H1 | INDICATOR, Bucket position .....                   | 1    |
| 33  | H-310    | NUT .....  | 1    |
|   | WL-110   | WASHER, Lock .....                                 | 1    |
| 34  | 171913H1 | ROD .....  | 1    |
| 35  | 107336H1 | CLAMP .....  | 1    |
|   |          | GUIDE ASSEMBLY, Includes Items 36 thru 39 .        | 1    |
| 36  | 173860H1 | GUIDE .....  | 1    |
| 37  | 171912H1 | BUSHING .....                                      | 1    |
| 38  | 173862H1 | WASHER .....                                       | 2    |
| 39  | 173863H1 | RING, Retaining .....                              | 2    |
|   | S-158    | SCREW, Cap .....                                   | 2    |
|   | WL-15    | WASHER, Lock .....                                 | 2    |
|   | H - 15   | NUT .....  | 2    |
| 40  | H-310    | NUT .....  | 1    |
| 41  | 171914H1 | BALL JOINT .....                                   | 1    |
| 42  | WL-110   | WASHER, Lock .....                                 | 1    |
|   | 132616H1 | STRAP .....  | 1    |
| BUCKET POSITION INDICATOR<br>(See illustration below) |          |  |      |
| 1   | 197004H1 | GUIDE, Indicator Rod (Includes Items 2, 3 & 4) ... | 1    |
| 2   | 171912H1 | BUSHING .....                                      | 1    |
| 3   | 173862H1 | WASHER .....                                       | 2    |
| 4   | 173863H1 | RING, Retaining .....                              | 2    |
|   | 196983H1 | "U" BOLT .....                                     | 1    |
|   | E - 18   | NUT .....  | 2    |
|   | WF-18    | WASHER .....                                       | 2    |
| 5   | 208659H1 | INDICATOR .....                                    | 1    |
| 6   | 102278H1 | CLEVIS .....                                       | 1    |
| 7   | H-310    | NUT, Jam .....                                     | 2    |
| 8   | 102279H1 | PIN .....  | 1    |
| 9   | 196987H1 | BOLT .....   | 1    |



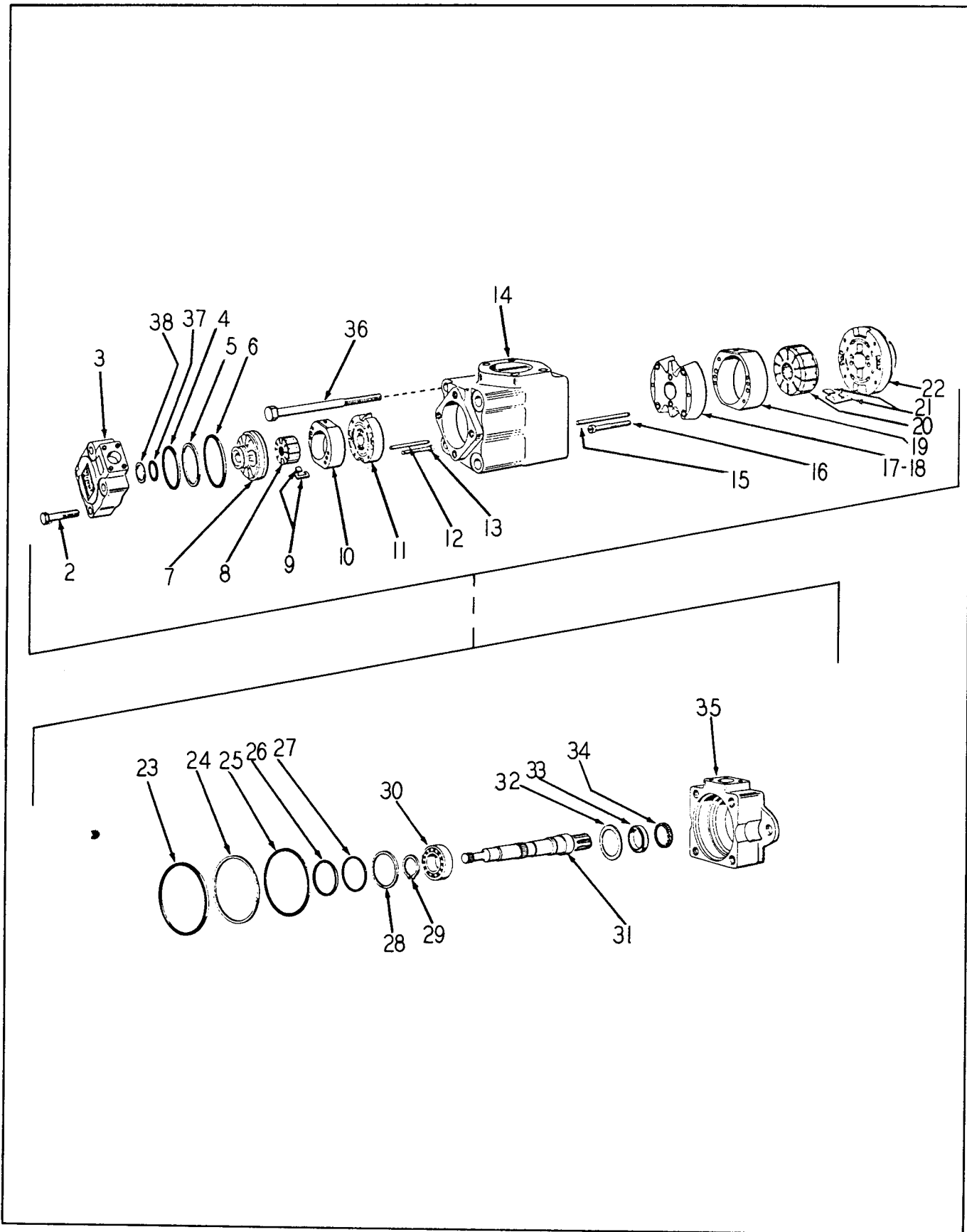




STEERING CYLINDER

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 189070H1 | CYLINDER, Steering (Includes Items 2 thru 5) ..... | 2    |
| 2        | 189072H2 | PACKING .....                                      | 2    |
| 3        | 167055H1 | SEAL, Wiper .....                                  | 2    |
| 4        | 189071H1 | NUT, Gland .....                                   | 2    |
| 5        | 187290H1 | SCREW, Set .....                                   | 2    |
|          | 138926H1 | CLAMP ASSEMBLY (Includes Items 6 thru 9) .....     | 4    |
| 6        | 138925H1 | CLAMP .....  | 1    |
| 7        | H - 18   | NUT .....  | 1    |
| 8        | WL-18    | WASHER, Lock .....                                 | 1    |
| 9        | S-1818   | SCREW, Cap .....                                   | 1    |
|          | E-112    | NUT .....  | 1    |
|          | WF-312   | WASHER, Flat .....                                 | 1    |
|          | S-11218  | SCREW, Cap .....                                   | 1    |
|          | 185085H1 | SUPPORT .....                                      | 1    |

Qty. Shown for 1 Clamp

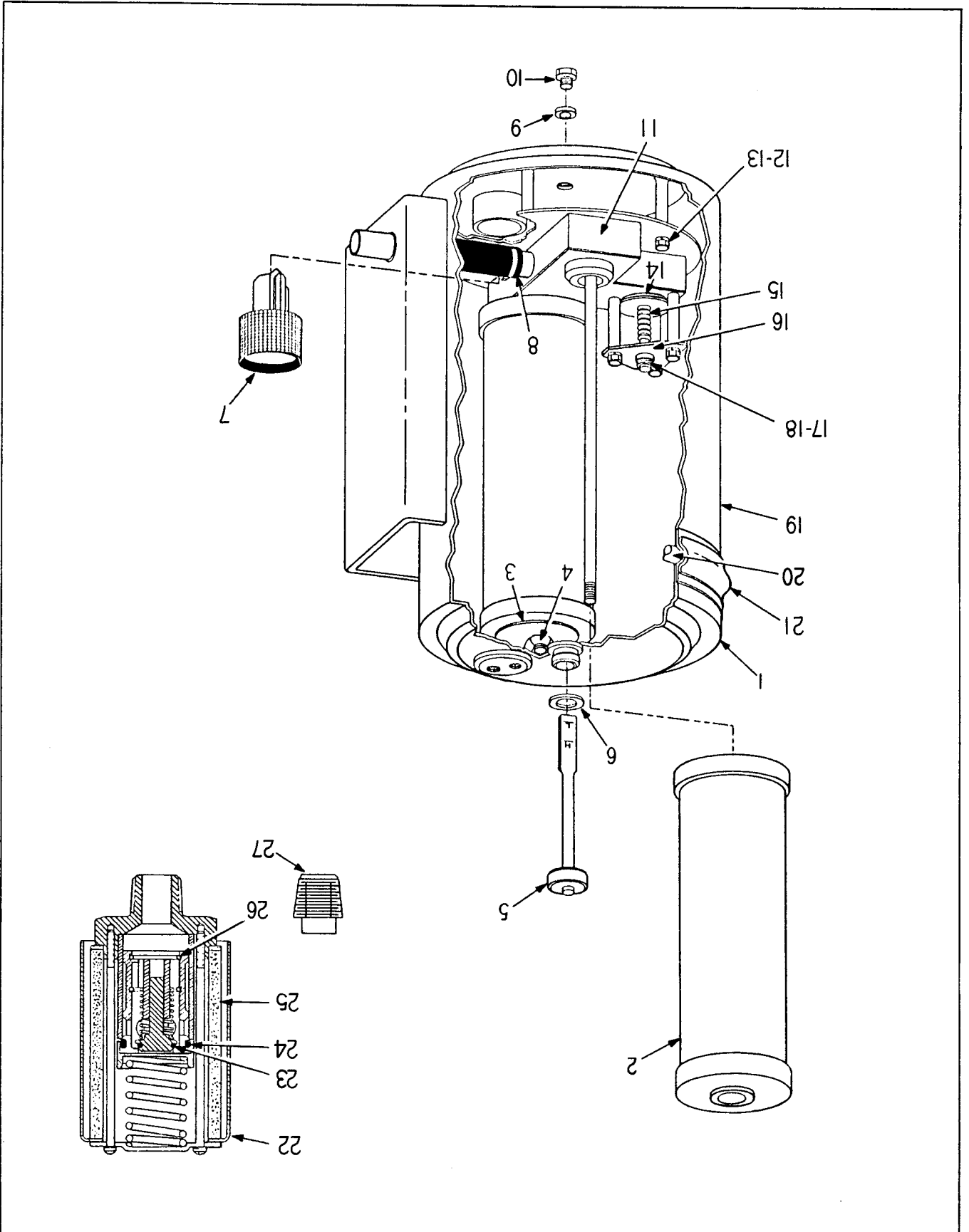


MAIN HYDRAULIC PUMP

MAIN PUMP

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 1        | 206586H3 | PUMP, (Vickers 3520V35-A8-19DD-10)  | 1    |
| 2        | 177600H1 | SCREW   | 4    |
| 3        | 177596H1 | COVER   | 1    |
| 4        |          | "O" RING  | 1    |
| 5        |          | RING, Back-up   | 1    |
| 6        |          | "O" RING, Cover   | 1    |
| 7        |          | PLATE, Pressure   | 1    |
| 8        |          | ROTOR   | 1    |
| 9        |          | KIT, Vane   | 1    |
| 10       |          | RING  | 1    |
| 11       |          | PLATE, Wear   | 1    |
| 12       |          | PIN   | 2    |
| 13       |          | SCREW   | 2    |
| 14       | 177595H1 | HOUSING, Inlet  | 1    |
| 15       |          | PIN, Housing  | 2    |
| 16       |          | SCREW   | 2    |
| 17       |          | PLATE, Wear (Includes Bushing)  | 1    |
| 18       |          | BUSHING   | 1    |
| 19       |          | RING  | 1    |
| 20       |          | ROTOR   | 1    |
| 21       |          | KIT, Vane   | 1    |
| 22       |          | PLATE, Pressure   | 1    |
| 23       |          | "O" RING  | 1    |
| 24       |          | RING, Back-up   | 1    |
| 25       |          | "O" RING  | 1    |
| 26       |          | "O" RING  | 1    |
| 27       |          | RING, Back-up   | 1    |
| 28       | 165002H1 | RING, Snap  | 1    |
| 29       | 148647H1 | RING, Snap  | 1    |
| 30       | 177598H1 | BEARING   | 1    |
| 31       | 187892H1 | SHAFT   | 1    |
| 32       | 165003H1 | WASHER  | 1    |
| 33       |          | SEAL, Oil   | 1    |
| 34       |          | WIPER   | 1    |
| 35       | 164373H1 | BODY  | 1    |
| 36       | 177599H1 | SCREW   | 4    |
| 37       |          | "O" RING  | 1    |
| 38       |          | RING, Back-up   | 1    |
|          | S-21016  | SCREW, Cap  | 2    |
|          | WL-110   | WASHER, Lock  | 2    |
|          | H-410    | NUT   | 2    |
|          |          | } Pump to Adapter Drive   |      |
|          | 187894H2 | KIT, Gasket (Includes Items 4, 5, 6, 23, 24, 25, 26, 27, 33, 34, 37 and 38) | 1    |
|          | 187896H2 | KIT, Cartridge, Small (Includes Items 7 thru 13) (Replaced 194643H1).       | 1    |
|          | 185460H1 | KIT, Cartridge, Large (Includes Items 15 and 22) (Replaced 177590H3)        | 1    |

RESERVOIR



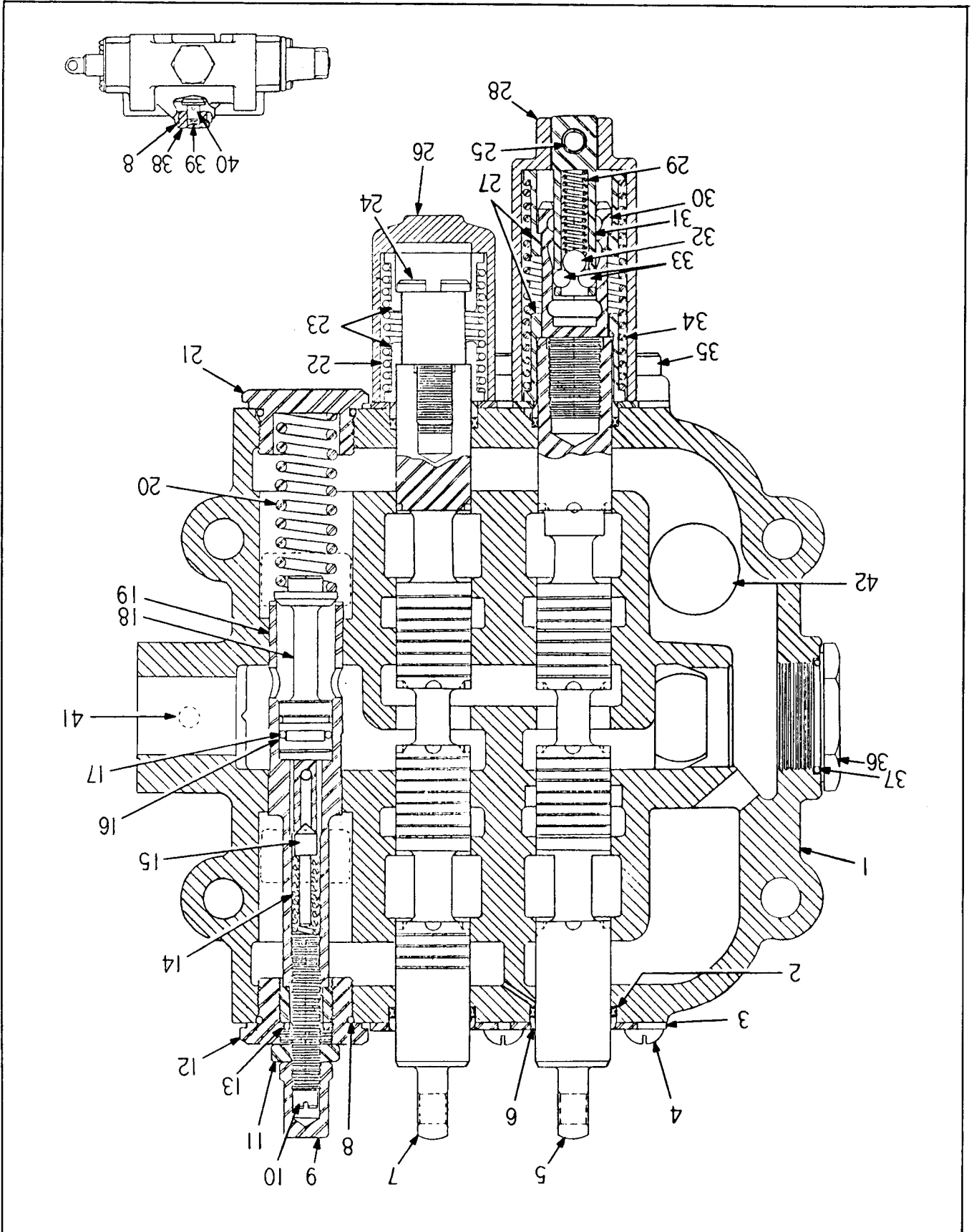
RESERVOIR

| ITEM NO. | PART NO. | PART NAME                                       | Qty. |
|----------|----------|---|------|
|          | 194430H1 | RESERVOIR .....                                 | 1    |
| 1        | 176002H1 | TOP, Reservoir .....                            | 1    |
| 2        | 176028H2 | FILTER .....                                    | 3    |
| 3        | 193845H1 | PLATE, Retainer .....                           | 1    |
| 4        | E - 18   | NUT .....                                       | 3    |
| 5        | 172801H1 | CAP & DIPSTICK .....                            | 1    |
| 6        | 134045H1 | SEAL .....                                      | 2    |
| 7        | 172800H1 | SCREEN .....                                    | 1    |
| 8        | 193836H1 | HOSE, Inlet .....                               | 1    |
|          | 158094H1 | CLAMP, Hose .....                               | 2    |
| 9        | OR2-16   | "O" RING .....                                  | 1    |
| 10       | 210-16   | PLUG, Drain .....                               | 1    |
| 11       | 193829H1 | BAFFLE .....                                    | 1    |
| 12       | S-168    | SCREW, Cap .....                                | 4    |
|          | WF-16    | WASHER, Flat .....                              | 4    |
| 13       | WL-16    | WASHER, Lock .....                              | 4    |
| 14       | 176027H1 | GROMMET .....                                   | 1    |
| 15       | 176026H1 | SPRING .....                                    | 1    |
| 16       | 193843H1 | VALVE, Check .....                              | 1    |
| 17       | E - 16   | NUT .....                                       | 1    |
| 18       | WF-16    | WASHER, Flat .....                              | 1    |
| 19       | 194431H1 | BOTTOM, Reservoir .....                         | 1    |
| 20       | 172803H1 | "O" RING .....                                  | 1    |
| 21       |          | COUPLING (Includes next 3 items) .....          | 1    |
|          | 209608H1 | RETAINER .....                                  | 2    |
|          | 214339H1 | BOLT .....                                      | 2    |
|          | 214338H1 | NUT .....                                       | 2    |
| 22       | 194400H1 | VALVE, Relief (Includes Items 23 thru 26) ..... | 1    |
| 23       | 198464H1 | SEAL, Poppet .....                              | 1    |
| 24       | 198463H1 | SEAL, Sleeve .....                              | 1    |
| 25       | 198461H1 | FILTER .....                                    | 1    |
| 26       | 198462H1 | RING, Lock .....                                | 2    |
| 27       | P - 14   | PLUG .....                                      | 1    |
|          | S-1812   | SCREW, Cap .....                                | 4    |
|          | WL-18    | WASHER, Lock .....                              | 4    |
|          | H - 18   | NUT .....                                       | 4    |

Part of Item 21

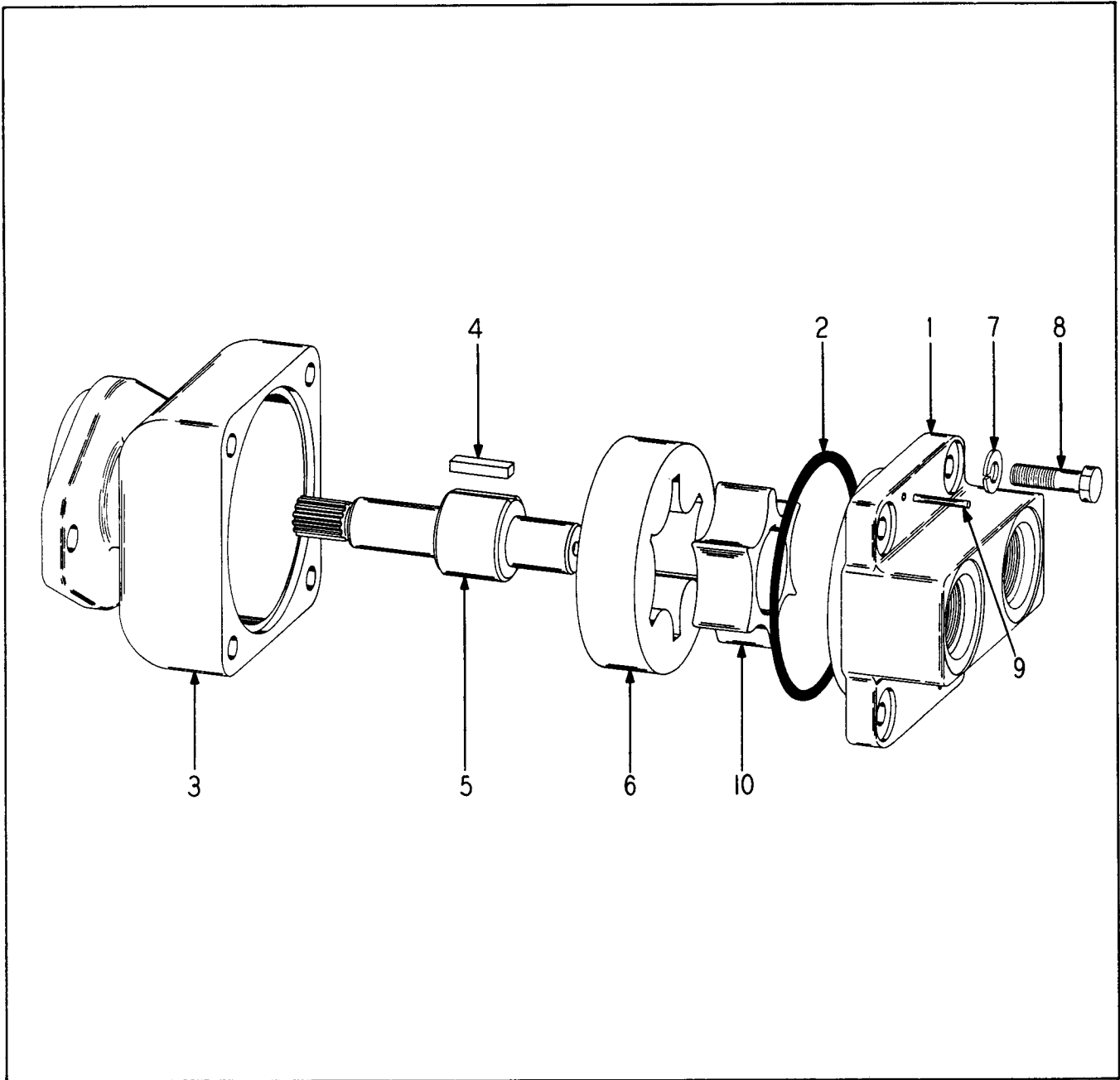
Reservoir to Enclosure

CONTROL VALVE



CONTROL VALVE

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
|          | 193790H3 | VALVE (Includes Items 1-41) (replaces 193790H2 on Houghco Products Std S/N 21F-06187 thru 06195, 06209 and up) ..... | 1    |
| 1        | NSS      | HOUSING .....  | 1    |
| 2        | 220737H1 | "O" RING (Replaces 195243 Quad Ring) .....   | 4    |
| 3        | 205574H1 | PLATE, Seal (Replaces 194946H1) .....  | 4    |
| 4        | 173652H1 | SCREW .....  | 4    |
| 5        | NSS      | PLUNGER, Double Acting Float .....   | 1    |
| 6        | 220736H1 | WIPER .....  | 4    |
| 6        | 220734H1 | SCRAPER, Ring .....  | 2    |
| 6        | 220735H1 | SPACER, Ring .....   | 2    |
| 7        | NSS      | PLUNGER, Double Acting .....   | 1    |
| 8        | OR2-20   | "O" RING .....   | 5    |
| 9        | 111392H1 | NUT, Castle .....  | 1    |
| 10       | 144591H1 | SCREW, Adjusting .....   | 1    |
| 11       | 144598H1 | NUT .....  | 1    |
| 12       | 144588H1 | PLUG, Relief Valve Pilot .....   | 1    |
| 13       | 144587H1 | PLUG, Adjusting .....  | 1    |
| 14       | 173647H1 | SPRING .....   | 1    |
| 15       | 144606H1 | POPPET .....   | 1    |
| 16       | 216057H1 | RING, Back-up (replaces 149947H1) .....  | 1    |
| 17       | OR4-13   | "O" RING .....   | 1    |
| 18       | 144585H1 | POPPET .....   | 1    |
| 19       | 144584H1 | SLEEVE .....   | 1    |
| 20       | 144586H1 | SPRING .....   | 1    |
| 21       | 144589H1 | PLUG .....   | 1    |
| 22       | 205575H1 | SPRING (Replaces 195240H1 on units with 193790H3 valve) .....  | 1    |
| 23       | 195242H1 | SEAT, Spring .....   | 2    |
| 24       | 195241H1 | SCREW, Cap, Special .....  | 1    |
| 25       | 140800H1 | PIN, Drive .....   | 1    |
| 26       | 187433H1 | CAP, Plunger .....   | 1    |
| 27       | 174683H1 | GUIDE, Spring .....  | 2    |
| 28       | 174678H1 | CAP .....  | 1    |
| 29       | 174681H1 | SPRING .....   | 1    |
| 30       | 174684H1 | END, Plunger .....   | 1    |
| 31       | 174679H1 | PIN, Detent Plunger .....  | 1    |
| 32       | 131526H1 | BALL, 3/8" Diameter .....  | 1    |
| 33       | 174682H1 | BALL, 9/32" Diameter .....   | 3    |
| 34       | 205575H1 | SPRING (Replaces 174680H1) .....   | 1    |
| 35       | 157918H1 | SCREW, Cap .....   | 4    |
| 36       | 144601H1 | PLUG .....   | 1    |
| 37       | OR2-24   | "O" RING .....   | 1    |
| 38       | 144599H1 | PLUG, Check Valve .....  | 3    |
| 39       | 144604H1 | SPRING, Check Valve .....  | 3    |
| 40       | 144600H1 | POPPET, Check Valve .....  | 3    |
| 41       | P - 44   | PLUG .....   | 1    |
| 42       | OR3-2    | "O" RING, Valve Mounting .....   | 1    |



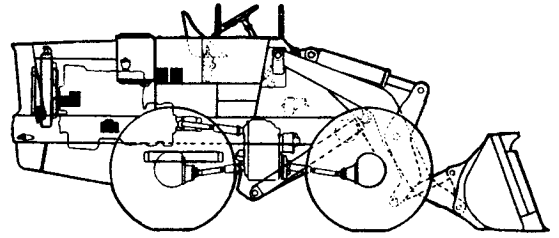
CHARGING PUMP

| ITEM NO. | PART NO. | PART NAME                               | Qty. |
|----------|----------|---|------|
|          | 208860H1 | PUMP, Charging                          | 1    |
| 1        | NSS      | COVER, Select Fit                       | 1    |
| 2        | 185395H1 | "O" RING                                | 1    |
| 3        | NSS      | HOUSING, Select Fit                     | 1    |
| 4        | 185394H1 | KEY                                     | 1    |
| 5        | 185393H1 | SHAFT, Rotor                            | 1    |
| 6        | 185391H1 | GEAR, Driven                            | 1    |
| 7        | NSS      | WASHER, Lock - 3/8"                     | 4    |
| 8        | NSS      | SCREW, Cap - Hex Hd. 3/8-16 NC x 1-1/4" | 4    |
| 9        | NSS      | PIN, Dowel - 1/8 x 1" long              | 2    |
| 10       | 185392H1 | GEAR, Drive                             | 1    |
|          | S-267    | SCREW, Cap                              | 2    |
|          | OR3-12   | "O" RING                                | 1    |
|          |          | } Pump Mounting                         |      |



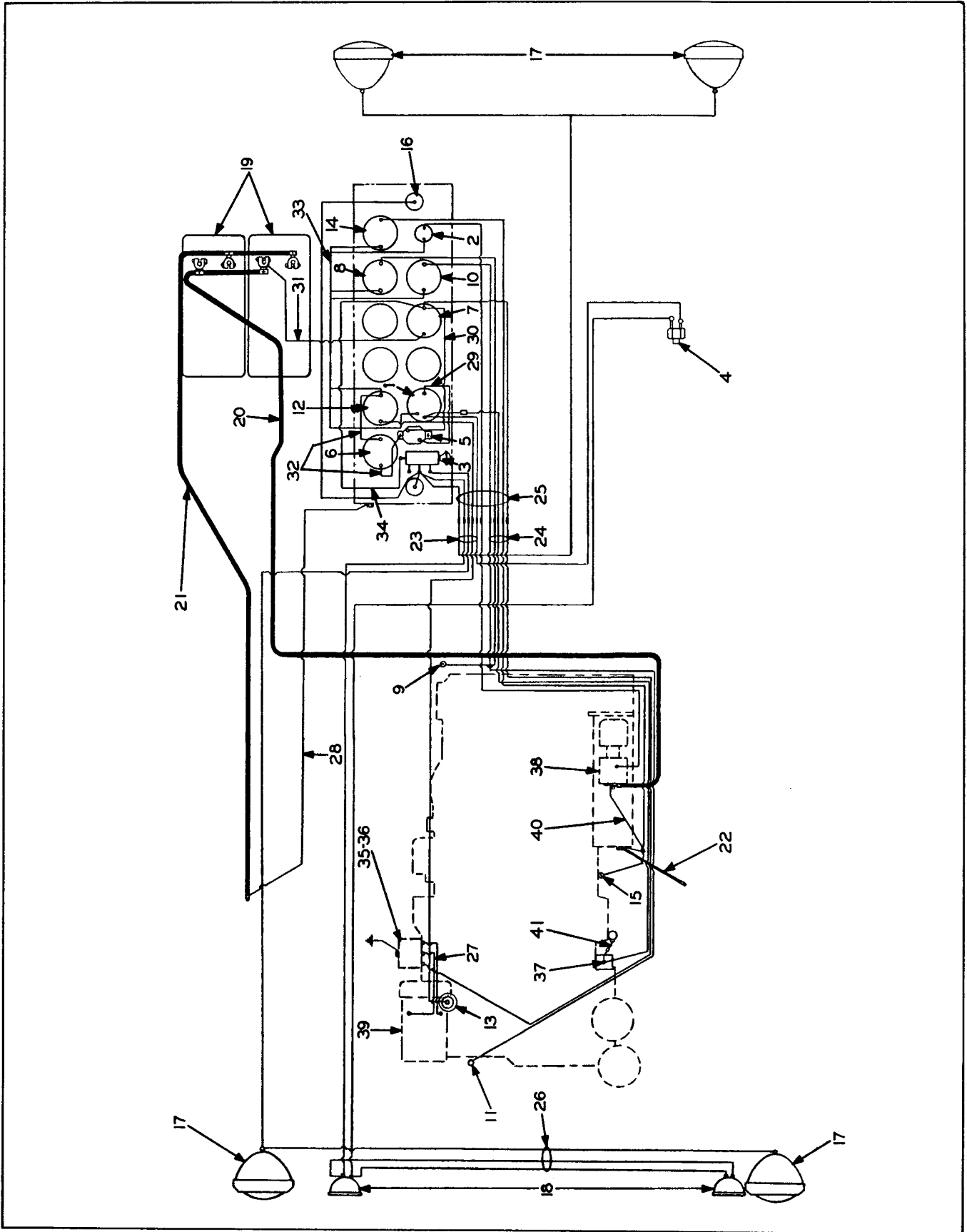
# SECTION 12

# ELECTRICAL SYSTEM



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| WIRING - C-160 .....             | 12-7        |
| WIRING - DETROIT DIESEL 471..... | 12-11       |



ELECTRICAL SYSTEM-IH ENGINE

ELECTRICAL SYSTEM-IH ENGINE

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 190345H1 | SWITCH, Ignition   | 1    |
| 2        | 109214H1 | SWITCH, Starter  | 1    |
| 3        | 107749H1 | SWITCH, Light  | 1    |
| 4        | 112339H2 | SWITCH, Stoplight  | 1    |
| 5        | 128359H1 | CIRCUIT BREAKER  | 1    |
|          | 168752H1 | SCREW, Machine, Round Head                                   | 2    |
|          | 104469H1 | WASHER, Lock   | 2    |
|          | 104467H1 | NUT  | 2    |
| 6        | 167564H2 | HOURMETER  | 1    |
| 7        | 115605H1 | AMMETER (Replaced H-3151)                                    | 1    |
| 8        | 187314H1 | GAUGE, Torque Converter Temperature                          | 1    |
| 9        | 144200H2 | SENDER, Torque Converter                                     | 1    |
| 10       | 187313H1 | GAUGE, Water Temperature                                     | 1    |
| 11       | 144200H2 | SENDER, Engine Temperature                                   | 1    |
|          | 104468H1 | WASHER, Lock   | 2    |
|          | 104466H1 | NUT } Sender Mounting  | 2    |
| 12       | 187315H1 | GAUGE, Fuel  | 1    |
| 13       | 171831H1 | SENDER, Fuel   | 1    |
|          | 104468H1 | WASHER, Lock   | 1    |
|          | 104466H1 | NUT  | 1    |
|          | 107755H1 | GASKET, Fuel Sender  | 1    |
|          | 160975H1 | SCREW, Machine Round Head                                    | 5    |
|          | 108498H1 | WASHER, Lock   | 5    |
| 14       | 187312H1 | GAUGE, Engine Oil Pressure                                   | 1    |
| 15       | 123154H1 | SENDER, Engine Oil Pressure                                  | 1    |
|          | 103495H1 | ELBOW, 45° (Sender)  | 1    |
| 16       | 146568H1 | LAMP, Dash (Bulb, Trade #89)                                 | 2    |
|          | 104469H1 | WASHER, Lock   | 4    |
| 17       | 176751H1 | LAMP, Driving (181355H1 Sealed Beam Unit, 181356H1 Retainer) | 4    |
| 18       | 115602H3 | LAMP, Tail & Stop (Bulb, Trade #67 & 1073)                   | 2    |
|          | 104469H1 | WASHER, Lock (Wires to Tail Light)                           | 2    |
| 19       |          | BATTERY, Exide 4 D 12 Volts, 150 amp.                        | 2    |
| 20       | 189605H1 | CABLE, Battery (+)   | 1    |
| 21       | 189603H1 | CABLE, Battery (-)   | 1    |
| 22       | 183039H1 | STRAP, Starter Ground  | 1    |
| 23       | 174512H2 | HARNESS, Wiring  | 1    |
| 24       | 205291H1 | HARNESS, Wiring  | 1    |
| 25       | 175047H2 | LOOM, Instrument Panel                                       | 1    |
| 26       | 172227H2 | LOOM, Jumper, Stoplights                                     | 1    |
| 27       | 148175H1 | WIRE, Generator to Regulator                                 | 2    |
| 28       | 192357H1 | WIRE, Ground Instrument                                      | 1    |
| 29       | 134319H1 | WIRE, Ignition Switch to Circuit Breaker                     | 1    |
| 30       | 109866H1 | WIRE, Ammeter to Circuit Breaker                             | 1    |
| 31       | 177235H1 | WIRE, Battery to Ammeter                                     | 1    |
| 32       | 187396H1 | WIRE, Hourmeter Connections                                  | 2    |
| 33       | 175353H1 | WIRE, Instrument Jumper                                      | 1    |
| 34       | 109866H1 | WIRE, Ammeter to Light Switch                                | 1    |
| 35       |          | REGULATOR (Furnished W/Engine)                               | 1    |
| 36       | 174313H1 | SHOCK MOUNT KIT (Voltage Regulator)                          | 1    |
| 37       |          | SOLENOID, Fuel Pump (Furnished W/Engine)                     | 1    |
| 38       |          | SOLENOID, Starter (Furnished W/Engine)                       | 1    |
| 39       |          | GENERATOR, (Furnished W/Engine)                              | 1    |
| 40       |          | WIRE, Solenoid to Starter (Furnished W/Engine)               | 1    |
| 41       | 205920H1 | WIRE, Fuel Pump Solenoid to Aux. Fuel Pump                   | 1    |
|          | 129668H1 | CLIP, Attach to Engine                                       | 1    |
|          | S-286    | SCREW, Cap   | 1    |
|          | WL-18    | WASHER, Lock   | 1    |
|          | 139016H1 | STRAP, Outside Battery Box                                   | 1    |
|          | 179095H1 | BRACKET, Stoplight Mounting, R. H.                           | 1    |
|          | 179096H1 | BRACKET, Stoplight Mounting, L. H.                           | 1    |
|          | H - 14   | NUT  | 4    |
|          | WL-14    | WASHER, Lock   | 4    |
|          | 154049H1 | GROMMET, Battery Cables                                      | 1    |
|          | 129668H1 | CLAMP, Loom to Operator's Compartment                        | 1    |
|          | 210463H1 | BRACKET, Voltage Regulator Mounting                          | 1    |

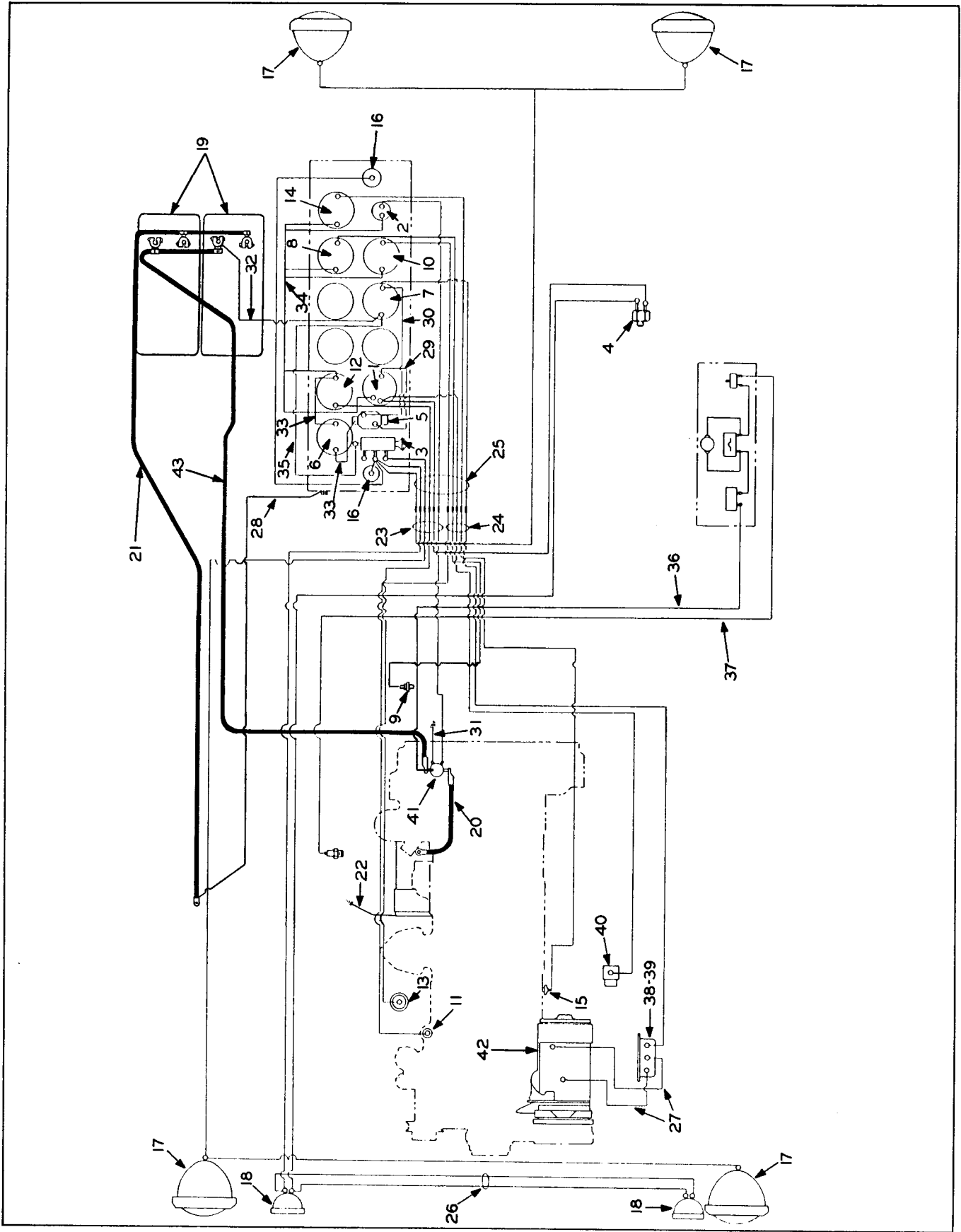
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ELECTRICAL SYSTEM-IH ENGINE (Continued)

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
|          | S-158    | SCREW, Cap .....   | 4    |
|          | WL-15    | WASHER, Lock .....                                       | 4    |
|          | H - 15   | NUT .....  | 4    |
|          | S-1612   | SCREW, Cap .....   | 1    |
|          | WL-16    | WASHER, Lock .....                                       | 1    |
|          | H - 16   | NUT .....  | 1    |
|          | 177360H1 | SUPPORT, Rear Lights .....                               | 2    |
|          | 176750H1 | CLAMP, Driving Lamp .....                                | 4    |
|          | 176752H1 | PLUG, Rubber .....                                       | 6    |
|          | 186928H1 | PLUG, Rubber .....                                       | 2    |
|          | E - 18   | NUT .....  | 4    |
|          | 176749H1 | WASHER .....   | 8    |
|          | H-320    | NUT .....  | 2    |
|          | WL-120   | WASHER, Lock .....                                       | 2    |
|          | 132226H1 | SCREW .....  | 1    |
|          | 104468H1 | WASHER, Lock .....                                       | 1    |
|          | 104466H1 | NUT .....  | 1    |
|          | 138459H1 | CLAMP, Harness to Engine Block R. H. Side .....          | 1    |
|          | 161043H1 | CLAMP, Harness to Solenoid Bracket .....                 | 1    |
|          | 138459H1 | CLAMP, Tail Back Up Light Wires to L. H. Channel .....   | 1    |
|          | S-168    | SCREW, Cap .....   | 6    |
|          | H - 16   | NUT .....  | 6    |
|          | WL-16    | WASHER, Lock .....                                       | 6    |
|          | 161043H1 | CLAMP, Harness to Parking Brake .....                    | 1    |
|          | 138459H1 | CLAMP, Driving Light Wire to Gearshift Lever Clamp ..... | 1    |
|          | 129668H1 | CLAMP, Loom to Flywheel Housing .....                    | 3    |
|          | 139016H1 | STRAP, Battery Cables .....                              | 2    |
|          | 136140H1 | CLAMP, Headlight Wires to Floorboard .....               | 3    |
|          | 193848H1 | WIRE, Instrument Panel Loom to Ignition Switch .....     | 1    |
|          | 173433H1 | SUPPORT, Front Lights .....                              | 2    |
|          | 173443H1 | SETSCREW .....   | 4    |
|          | 129668H1 | CLAMP, Loom to Battery Box Support .....                 | 1    |
|          | 136140H1 | CLAMP, Loom to Flow Control Valve .....                  | 1    |

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NOTES



ELECTRICAL SYSTEM-CUMMINS ENGINE

ELECTRICAL SYSTEM-CUMMINS ENGINE

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
| 1        | 190345H1 | SWITCH, Ignition  | 1    |
| 2        | 109214H1 | SWITCH, Starter   | 1    |
| 3        | 107749H1 | SWITCH, Light   | 1    |
| 4        | 112339H2 | SWITCH, Stoplight   | 1    |
| 5        | 128359H1 | CIRCUIT BREAKER   | 1    |
|          | 168752H1 | SCREW, Machine Round Head   | 2    |
|          | 104469H1 | WASHER, Lock  | 2    |
|          | 104467H1 | NUT   | 2    |
| 6        | 167564H2 | HOURMETER   | 1    |
| 7        | 115605H1 | AMMETER (Replaced HL-3151)  | 1    |
| 8        | 187314H1 | GAUGE, Torque Converter Temperature   | 1    |
| 9        | 144200H2 | SENDER, Torque Converter  | 1    |
| 10       | 187313H1 | GAUGE, Water Temperature  | 1    |
| 11       | 144200H2 | SENDER, Engine Temperature  | 1    |
|          | 104468H1 | WASHER, Lock  | 2    |
|          | 104466H1 | NUT } Sender Mounting   | 2    |
| 12       | 187315H1 | GAUGE, Fuel   | 1    |
| 13       | 171831H1 | SENDER, Fuel  | 1    |
|          | 104468H1 | WASHER, Lock  | 1    |
|          | 104466H1 | NUT   | 1    |
|          | 107755H1 | GASKET, Fuel Sender   | 1    |
|          | 160975H1 | SCREW, Machine Round Head   | 5    |
|          | 108498H1 | WASHER, Lock  | 5    |
| 14       | 187312H1 | GAUGE, Engine Oil Pressure  | 1    |
| 15       | 123154H1 | SENDER, Engine Oil Pressure   | 1    |
| 16       | 146568H1 | LAMP, Dash (Bulb, Trade #89)  | 2    |
|          | 104469H1 | WASHER, Lock  | 4    |
| 17       | 176751H1 | LAMP, Driving (181355H1 Sealed Beam Unit, 181356 Retainer)                          | 4    |
| 18       | 115602H3 | LAMP, Tail & Stop (Bulb, Trade #67 & 1073)  | 2    |
| 19       |          | BATTERY, Exide 4 D. 12 volts, 150 amp.  | 2    |
| 20       | 148167H1 | CABLE, Starter Solenoid to Starter (Deleted S/N 21FC-3012, 3025, 3031 & Up)         | 1    |
| 21       | 189603H1 | CABLE, Battery (-)  | 1    |
| 22       | 183039H1 | CABLE, Starter to Ground  | 1    |
| 23       | 174512H2 | HARNESS, Wiring   | 1    |
| 24       | 174510H3 | HARNESS, Wiring   | 1    |
| 25       | 175047H1 | LOOM, Instrument Panel  | 1    |
| 26       | 172227H1 | LOOM, Jumper, Stoplights  | 1    |
| 27       | 148175H1 | WIRE, Generator to Regulator  | 2    |
| 28       | 192357H1 | WIRE, Ground, Instrument  | 1    |
| 29       | 134319H1 | WIRE, Ignition Switch to Circuit Breaker  | 1    |
| 30       | 109866H1 | WIRE, Ammeter to Circuit Breaker  | 1    |
| 31       | 117240H1 | WIRE, Starter Solenoid to Starter (Deleted S/N 21FC-3012, 3025, 3031 & Up)          | 1    |
| 32       | 177235H1 | WIRE, Battery to Ammeter  | 1    |
| 33       | 187396H1 | WIRE, Hourmeter Connections   | 2    |
| 34       | 175353H1 | WIRE, Instrument Jumper   | 1    |
| 35       | 109866H1 | WIRE, Ammeter to Light Switch   | 1    |
| 36       | 208345H2 | WIRE, Battery to Cold Start Unit (Replaced 208345H1 S/N 21FC-3012, 3025, 3031 & Up) | 1    |
| 37       | 202133H1 | WIRE, Starting Unit to Glow Plug Wire   | 1    |
| 38       |          | REGULATOR (Furnished w/Engine)  | 1    |
| 39       | 174313H1 | SHOCK MOUNT KIT (Voltage Regulator)   | 1    |
| 40       |          | SOLENOID, Fuel Pump (Furnished W/Engine)  | 1    |
| 41       |          | SOLENOID, Starter (Deleted S/N 21FC-3012, 3025, 3031 & Up)                          | 1    |
| 42       |          | GENERATOR (Furnished W/Engine)  | 1    |
| 43       | 189604H2 | BATTERY STARTER, Cable (Replaced 189604H1 - S/N 21FC-3012, 3025, 3031 & Up)         | 1    |
|          | 129668H1 | CLIP, Attach to Engine  | 1    |
|          | S-286    | SCREW, Cap  | 1    |
|          | WL-18    | WASHER, Lock  | 1    |
|          | 139016H1 | STRAP, Outside Battery Box  | 1    |
|          | 179095H1 | BRACKET, Stoplight Mounting R. H.   | 1    |
|          | 179096H1 | BRACKET, Stoplight Mounting L. H.   | 1    |

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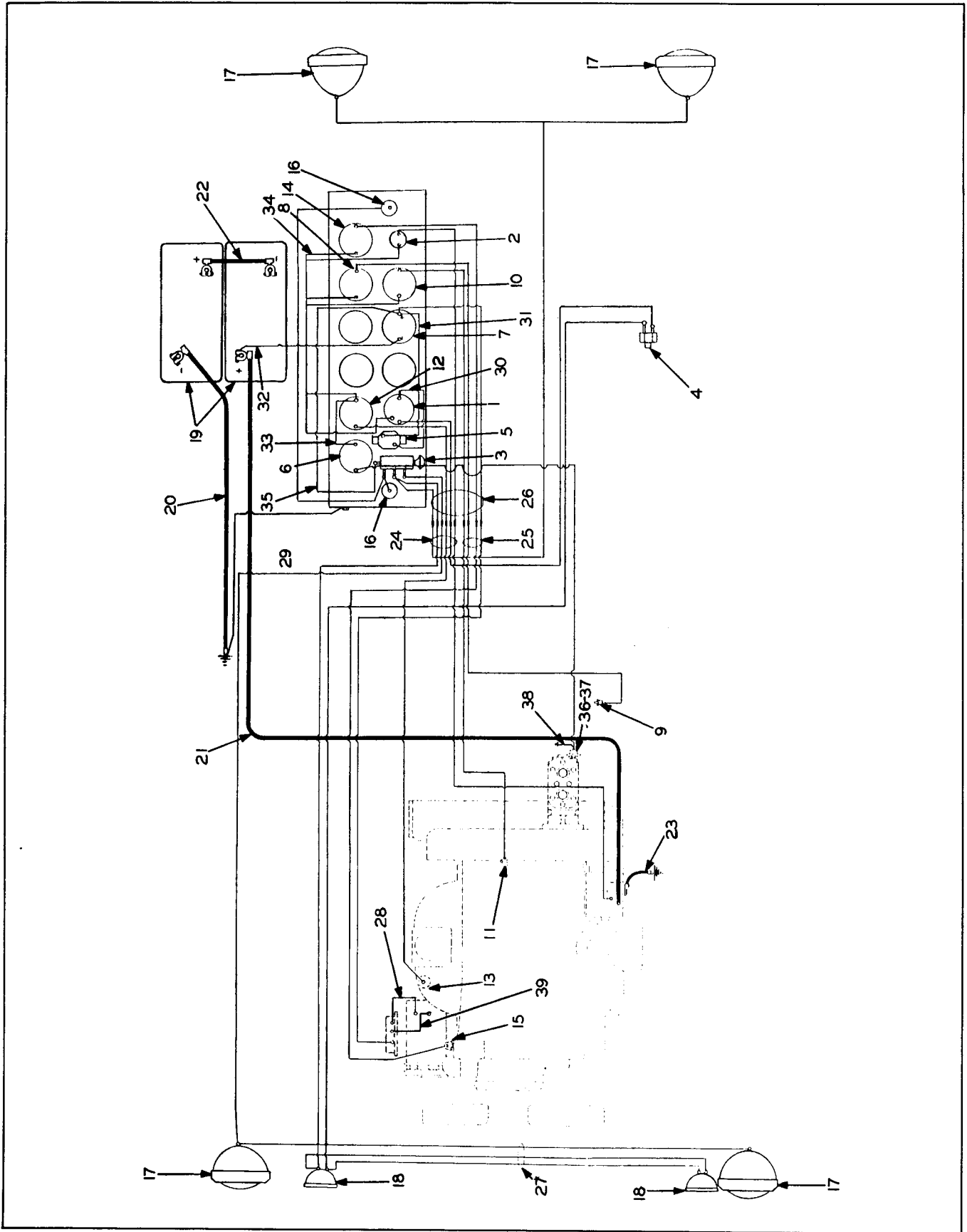
ELECTRICAL SYSTEM-CUMMINS ENGINE (Continued)

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | H - 14   | NUT .....   | 4    |
|          | WL-14    | WASHER, Lock .....  | 4    |
|          | 154049H1 | GROMMET, Battery Cables .....                                       | 1    |
|          | 129668H1 | CLAMP, Loom to Operator's Compartment .....                         | 1    |
|          | 179305H1 | BRACKET, Voltage Regulator Mounting .....                           | 1    |
|          | S-266    | SCREW, Cap .....  | 2    |
|          | WL-16    | WASHER, Lock .....  | 2    |
|          | S-1410   | SCREW, Cap .....  | 4    |
|          | WL-14    | WASHER, Lock .....  | 4    |
|          | H - 14   | NUT .....   | 4    |
|          | S-1612   | SCREW, Cap .....  | 1    |
|          | WL-16    | WASHER, Lock .....  | 1    |
|          | H - 16   | NUT .....   | 1    |
|          | 177360H1 | SUPPORT, Rear Lights .....  | 2    |
|          | 176750H1 | CLAMP, Driving Lamp .....   | 4    |
|          | 176752H1 | PLUG, Rubber .....  | 6    |
|          | 186928H1 | PLUG, Rubber .....  | 2    |
|          | E - 18   | NUT .....   | 4    |
|          | 176749H1 | WASHER .....  | 4    |
|          | H-320    | NUT .....   | 2    |
|          | WL-120   | WASHER, Lock .....  | 2    |
|          | 132226H1 | SCREW .....   | 1    |
|          | 104468H1 | WASHER, Lock .....  | 1    |
|          | 104466H1 | NUT .....   | 1    |
|          | 138459H1 | CLAMP, Harness to Engine Block R. H. Side .....                     | 1    |
|          | 161043H1 | CLAMP, Harness to Solenoid Bracket .....                            | 1    |
|          | 138459H1 | CLAMP, Tail Back Up Light Wires to L. H. Channel .....              | 1    |
|          | 129668H1 | CLAMP, Driving Light Wire to Windshield Strip .....                 | 4    |
|          | S-168    | SCREW, Cap .....  | 6    |
|          | H - 16   | NUT .....   | 6    |
|          | WL-16    | WASHER, Lock .....  | 6    |
|          | 161043H1 | CLAMP, Harness to Parking Brake .....                               | 1    |
|          | 138459H1 | CLAMP, Driving Light Wire to Gearshift Lever Clamp .....            | 1    |
|          | 129668H1 | CLAMP, Loom .....   | 3    |
|          | 139016H1 | STRAP, Battery Cables .....   | 2    |
|          | 136140H1 | CLAMP, Wire .....   | 3    |
|          | 193848H1 | WIRE, Instrument Panel Loom to Ignition Switch .....                | 1    |
|          | 148147H1 | * BRACKET, Solenoid Mounting .....                                  | 1    |
|          | S-145    | * SCREW, Cap .....  | 4    |
|          | WL-14    | * WASHER, Lock .....  | 4    |
|          | H - 14   | * NUT .....   | 4    |
|          | S-268    | * SCREW, Cap .....  | 2    |
|          | WF-16    | * WASHER, Flat .....  | 2    |
|          | WL-16    | * WASHER, Lock .....  | 2    |
|          | 176734H1 | * WASHER .....  | 2    |
|          | 173433H1 | SUPPORT, Front Lights .....   | 2    |
|          | 173443H1 | SETSCREW .....  | 4    |
|          | 129668H1 | CLAMP, Loom to Battery Box Support .....                            | 1    |
|          | 136140H1 | CLAMP, Loom to Flow Control Valve .....                             | 1    |
|          | 161043H1 | CLAMP, Water Temperature Wire to Engine Valve Cover .....           | 1    |
|          | 138459H1 | CLAMP, Wire to Cold Start Bracket .....                             | 1    |
|          |          | * Deleted - S/N 21FC-3012, 3025, 3031 & Up on items asterisk above. |      |



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NOTES



ELECTRICAL SYSTEM - DETROIT DIESEL ENGINE

ELECTRICAL SYSTEM - DETROIT DIESEL ENGINE

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
| 1        | 190345H1 | SWITCH, Ignition .....   | 1    |
| 2        | 109214H1 | SWITCH, Starter .....  | 1    |
| 3        | 107749H1 | SWITCH, Light .....  | 1    |
| 4        | 112339H2 | SWITCH, Stoplight .....  | 1    |
| 5        | 128359H1 | CIRCUIT BREAKER .....  | 1    |
|          | 168752H1 | SCREW, Machine Round Head .....  | 2    |
|          | 104469H1 | WASHER, Lock .....   | 2    |
|          | 104467H1 | NUT .....  | 2    |
| 6        | 167564H1 | HOURLMETER .....   | 1    |
| 7        | 155671H1 | AMMETER (Replaced HL-3151) .....   | 1    |
| 8        | 187314H1 | GAUGE, Torque Converter Temperature .....  | 1    |
| 9        | 144200H2 | SENDER, Torque Converter .....   | 1    |
| 10       | 187313H1 | GAUGE, Water Temperature .....   | 1    |
| 11       | 144200H2 | SENDER, Engine Temperature .....   | 1    |
|          | 104468H1 | WASHER, Lock .....   | 2    |
|          | 104466H1 | NUT .....  | 2    |
| 12       | 187315H1 | GAUGE, Fuel .....  | 1    |
| 13       | 171831H1 | SENDER, Fuel .....   | 1    |
|          | 104468H1 | WASHER, Lock .....   | 1    |
|          | 104466H1 | NUT .....  | 1    |
|          | 107755H1 | GASKET, Fuel Sender .....  | 1    |
|          | 160975H1 | SCREW, Machine Round Head .....  | 5    |
|          | 108498H1 | WASHER, Lock .....   | 5    |
| 14       | 187312H1 | GAUGE, Engine Oil Pressure .....   | 1    |
| 15       | 123154H1 | SENDER, Engine Oil Pressure .....  | 1    |
|          | 103495H1 | ELBOW, 45° (Sender) .....  | 1    |
| 16       | 146568H1 | LAMP, Dash (Bulb, Trade #89) .....   | 2    |
|          | 104469H1 | WASHER, Lock .....   | 4    |
| 17       | 176751H1 | LAMP, Driving (181355H1 Sealed Beam Unit 181356H1 Retainer) .....                  | 4    |
| 18       | 115602H3 | LAMP, Tail & Stop (Bulb, Trade #67 & 1073) .....                                   | 2    |
|          | 104469H1 | WASHER, Lock (Wires to Tail Light) .....   | 2    |
| 19       |          | BATTERY, Exide XF-25 .....   | 2    |
| 20       | 147650H1 | CABLE, Battery to Ground (Replaced 107558H1) .....                                 | 1    |
| 21       | 129323H1 | CABLE, Battery to Solenoid (Replaced 182692H1) .....                               | 1    |
| 22       | 116949H1 | CABLE, Battery Jumper .....  | 1    |
| 23       | 148167H1 | CABLE, Starter Solenoid to Starter .....   | 1    |
| 24       | 174512H2 | HARNESS, Wiring .....  | 1    |
| 25       | 174510H3 | HARNESS, Wiring .....  | 1    |
| 26       | 175047H2 | LOOM, Instrument Panel .....   | 1    |
| 27       | 172227H2 | LOOM, Jumper Stoplights .....  | 1    |
| 28       | 148175H1 | WIRE, Generator to Regulator .....   | 1    |
| 29       | 192357H1 | WIRE, Ground Instrument .....  | 1    |
| 30       | 134319H1 | WIRE, Ignition Switch to Circuit Breaker .....                                     | 1    |
| 31       | 109866H1 | WIRE, Ammeter to Circuit Breaker .....   | 1    |
|          | 117420H1 | WIRE, Starter, Solenoid to Ground (Deleted S/N's 21FG-3012, 3025, 3031 & Up) ..... | 1    |
| 32       | 177235H1 | WIRE, Battery to Ammeter .....   | 1    |
| 33       | 187396H1 | WIRE, Hourmeter Connections .....  | 1    |
| 34       | 175353H1 | WIRE, Instrument Jumper .....  | 1    |
| 35       | 109866H1 | WIRE, Ammeter to Light Switch .....  | 1    |
| 36       | 126287H1 | SWITCH, Pressure .....   | 1    |
| 37       | 103495H1 | ELBOW, 45° - Engine Oil Pressure Switch to Block .....                             | 1    |
| 38       | 143863H1 | WIRE, Hourmeter Pressure Switch to Ground .....                                    | 1    |
| 39       | 182963H1 | WIRE, Armature to Voltage Regulator .....  | 1    |
|          |          | REGULATOR, (Furnished W/Engine) .....  | 1    |
|          | 174313H1 | SHOCK MOUNT KIT (Voltage Regulator) .....  | 1    |
|          |          | SOLENOID, Fuel Pump (Furnished W/Engine) .....                                     | 1    |
|          |          | SOLENOID, Starter, (Furnished W/Engine) .....                                      | 1    |
|          |          | GENERATOR, (Furnished W/Engine) .....  | 1    |
|          |          | WIRE, Solenoid to Starter, (Furnished W/Engine) .....                              | 1    |
|          | 205920H1 | WIRE, Fuel Pump Solenoid to Auxillary Fuel Pump .....                              | 1    |
|          | 129668H1 | CLIP, Attach to Engine .....   | 1    |
|          | S-286    | SCREW, Cap .....   | 1    |
|          | WL-18    | WASHER, Lock .....   | 1    |
|          | 129668H1 | CLAMP, Loom to Operator's Compartment .....  | 1    |
|          | 210463H1 | BRACKET, Voltage Regulator Mounting .....  | 1    |
|          | 152113H1 | PLATE, Voltage Regulator Mounting .....  | 1    |

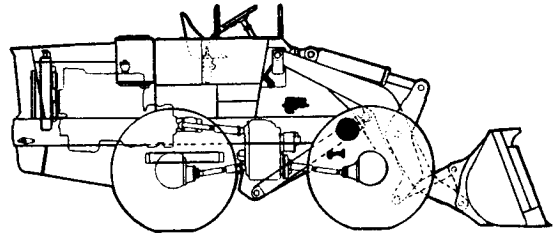
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ELECTRICAL SYSTEM (DETROIT DIESEL ENGINE) (Continued)

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 139016H1 | STRAP, Outside Battery Box                          | 1    |
|          | 179095H1 | BRACKET, Stoplight Mounting R. H.                   | 1    |
|          | 179096H1 | BRACKET, Stoplight Mounting L. H.                   | 1    |
|          | H - 14   | NUT   | 4    |
|          | WL-14    | WASHER, Lock  | 4    |
|          | 154049H1 | GROMMET, Battery Cables                             | 1    |
|          | S-277    | SCREW, Cap  | 4    |
|          | WL-17    | WASHER, Lock  | 4    |
|          | H - 27   | NUT   | 4    |
|          | S-1612   | SCREW, Cap  | 1    |
|          | WL-16    | WASHER, Lock  | 1    |
|          | H - 16   | NUT   | 1    |
|          | 177360H1 | SUPPORT, Rear Lights                                | 2    |
|          | 176750H1 | CLAMP, Driving Lamp                                 | 4    |
|          | 176752H1 | PLUG, Rubber  | 6    |
|          | 186928H1 | PLUG, Rubber  | 2    |
|          | E - 18   | NUT   | 4    |
|          | 176749H1 | WASHER  | 4    |
|          | H-320    | NUT   | 2    |
|          | WL-120   | WASHER, Lock  | 2    |
|          | 132226H1 | SCREW   | 1    |
|          | 104468H1 | WASHER, Lock  | 1    |
|          | 104466H1 | NUT   | 1    |
|          | 138459H1 | CLAMP, Harness to Engine Block R. H. Side           | 1    |
|          | 161043H1 | CLAMP, Harness to Solenoid Bracket                  | 1    |
|          | 138459H1 | CLAMP, Tail Back Up Light Wires to L. H. Channel    | 1    |
|          | 129668H1 | CLAMP, Driving Light Wire to Windshield Strip       | 4    |
|          | S-168    | SCREW, Cap  | 6    |
|          | H - 16   | NUT   | 6    |
|          | WL-16    | WASHER, Lock  | 6    |
|          | 161043H1 | CLAMP, Harness to Parking Brake                     | 1    |
|          | 138459H1 | CLAMP, Driving Light Wire to Gearshift Lever Clamp  | 1    |
|          | 129668H1 | CLAMP, Loom   | 3    |
|          | 139016H1 | STRAP, Battery Cables                               | 2    |
|          | 136140H1 | CLAMP, Wire   | 3    |
|          | 193848H1 | WIRE, Instrument Panel Loom to Ignition Switch      | 1    |
|          | 145703H1 | STARWASHER  | 2    |
|          | S-1610   | SCREW, Cap  | 1    |
|          | H - 16   | NUT   | 1    |
|          | 163839H1 | STARWASHER  | 2    |
|          | S-1810   | SCREW, Cap  | 1    |
|          | H - 18   | NUT   | 1    |
|          | 116983H1 | CLAMP, Battery Cable to Flywheel Blower             | 1    |
|          | 161043H1 | CLAMP, Water Temperature Wire to Engine Valve Cover | 1    |
|          | 173433H1 | SUPPORT, Front Lights                               | 2    |
|          | 173443H1 | SETSCREW  | 4    |
|          | 129668H1 | CLAMP, Loom to Battery Support                      | 1    |
|          | 136140H1 | CLAMP, Loom to Flow Control Valve                   | 1    |

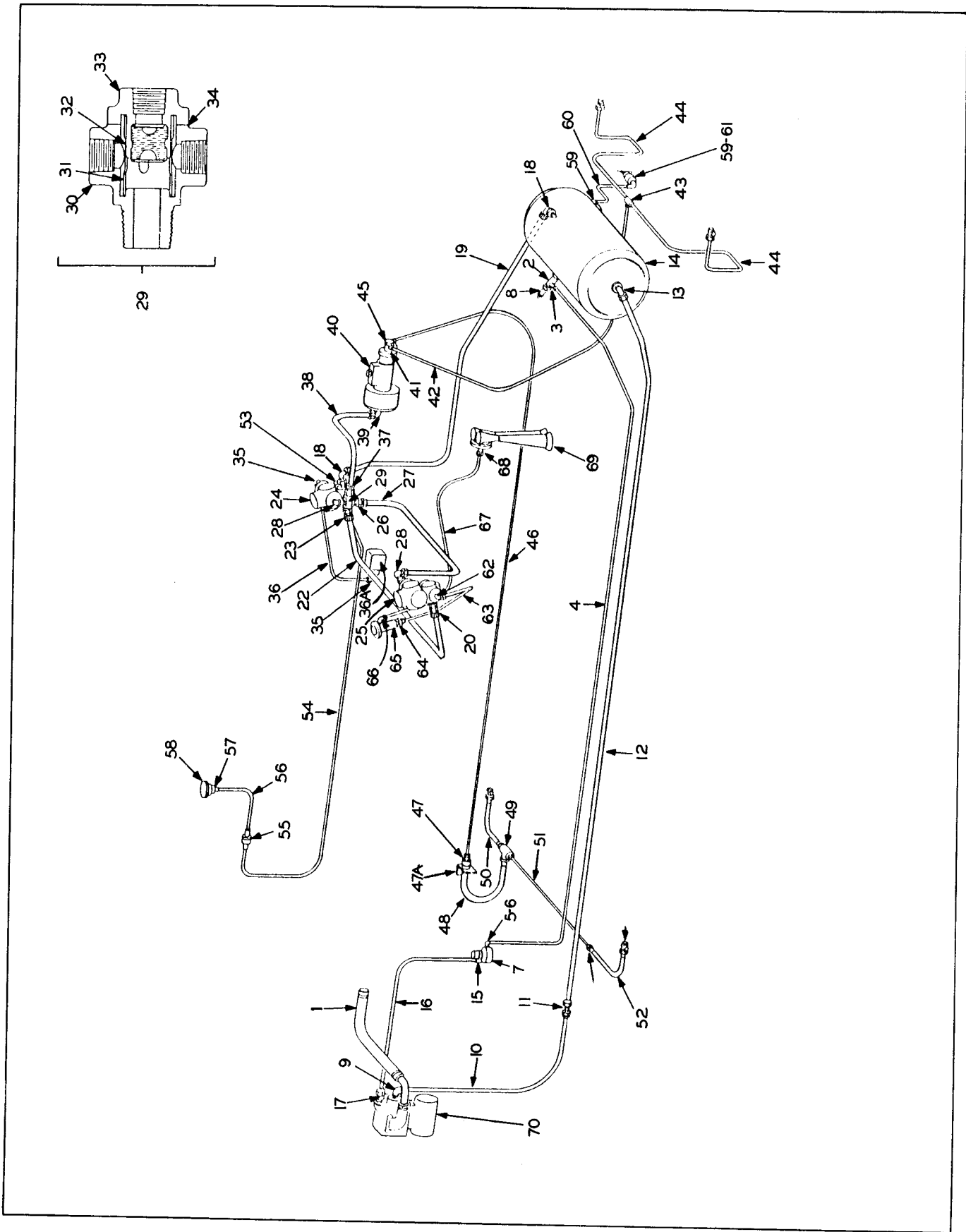
# SECTION 13

# BRAKE SYSTEM



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BRAKE & AIR CONNECTIONS

BRAKE & AIR CONNECTIONS

| ITEM NO. | PART NO. | PART NAME  | Qty. |
|----------|----------|--|------|
|          |          | LINE-TO COMPRESSOR   |      |
| 1        |          | HOSE (See Air Cleaner Groups) .....                        | 1    |
|          |          | LINE-RESERVOIR TO GOVERNOR                                 |      |
| 2        | 175779H1 | TEE .....  | 1    |
| 3        | 175774H1 | CONNECTOR .....  | 1    |
| 4        | 175934H1 | TUBE .....   | 1    |
|          | 144279H1 | CLAMP .....  | 3    |
|          | S-148    | SCREW, Cap .....   | 1    |
|          | H - 14   | NUT .....  | 1    |
|          | WL-14    | WASHER, Lock .....   | 1    |
| 5        | 175773H1 | CONNECTOR .....  | 1    |
| 6        | 175775H1 | ELBOW .....  | 1    |
| 7        | 160446H2 | GOVERNOR (See Page 13-14) .....                            | 1    |
|          | S-1526   | SCREW, Cap .....   | 2    |
|          | WL-15    | WASHER, Lock .....   | 2    |
|          | H - 15   | NUT .....  | 2    |
| 8        | 139434H1 | VALVE, Safety (See Page 13-6) .....                        | 1    |
|          |          | LINE-COMPRESSOR TO RESERVOIR                               |      |
| 9        | 153526H1 | ELBOW, I. H. Engine .....                                  | 1    |
| 9        | 160997H1 | ELBOW, Cummins Engine .....                                | 1    |
| 9        | 180127H1 | ELBOW, Detroit Diesel Engine .....                         | 1    |
| 10       | 179017H1 | TUBING, Cummins Engine .....                               | 1    |
| 10       | 179017H1 | TUBING, I. H. Engine (Replaces 166746H1) .....             | 1    |
| 10       | 215080H1 | TUBE, Detroit Diesel Engine (replaced 182407H1) .....      | 1    |
| 11       | 157919H1 | CONNECTOR .....  | 1    |
|          | 102818H1 | CLAMP .....  | 1    |
| 12       | 179092H1 | TUBE .....   | 1    |
|          | 132159H1 | CLAMP .....  | 2    |
| 13       | 153526H1 | ELBOW .....  | 1    |
| 14       | 153524H1 | RESERVOIR .....  | 1    |
|          | 153525H1 | "U" BOLT .....   | 2    |
|          | E - 16   | NUT .....  | 4    |
|          |          | LINE-GOVERNOR TO COMPRESSOR                                |      |
| 15       | 140367H1 | ELBOW .....  | 1    |
| 16       | 127618H1 | TUBING, I. H. Engine .....                                 | 1    |
| 16       | 127617H1 | TUBING, Cummins Engine .....                               | 1    |
| 16       | 132963H1 | TUBING, Detroit Diesel Engine .....                        | 1    |
|          | 177748H1 | CLAMP .....  | 1    |
| 17       | 140363H1 | ELBOW .....  | 1    |
|          |          | LINE-RESERVOIR TO L. H. BRAKE VALVE                        |      |
| 18       | 188902H1 | ELBOW (Replaces 175778H1 Bushing and 175777H1 Elbow) ..... | 2    |
| 19       | 175768H1 | TUBE (L. H. & Cummins) .....                               | 1    |
| 19       | 213157H1 | TUBE (Detroit Diesel Engine) .....                         | 1    |
|          |          | LINE-L. H. BRAKE VALVE TO R. H. BRAKE VALVE                |      |
| 20       | 188901H1 | CONNECTOR (Replaces 175772H1 & 175778H1 Bushing) .....     | 1    |
| 22       | 175767H1 | TUBE .....   | 1    |
| 23       | 188901H1 | CONNECTOR (Replaces 175772H1 & 175778H1 Bushing) .....     | 1    |
| 24       | 162410H3 | BRAKE, Valve, L. H. (See Page 13-12) .....                 | 1    |
| 25       | 162410H3 | BRAKE, Valve, R. H. (See Page 13-12) .....                 | 1    |
|          | S-158    | SCREW, Cap .....   | 6    |
|          | WL-15    | WASHER, Lock .....   | 6    |
|          |          | (Continued on following page)                              |      |

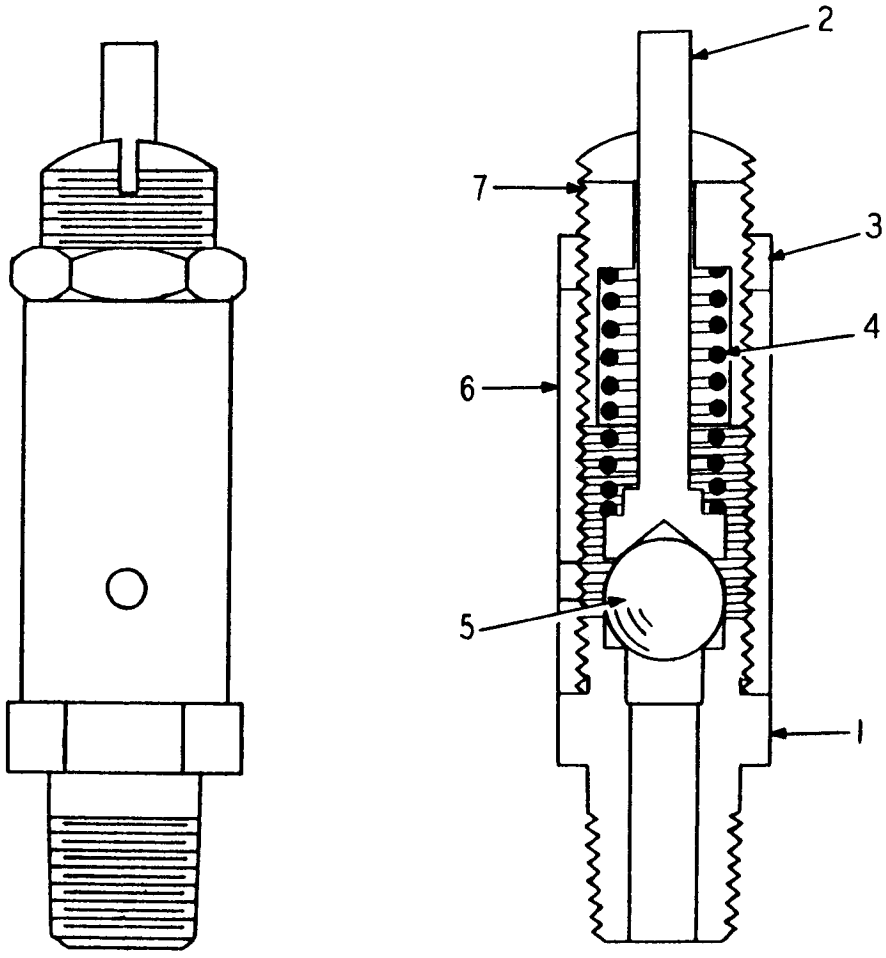
BRAKE & AIR CONNECTIONS (Continued)

| ITEM NO.  | PART NO. | PART NAME   | Qty. |
|---|----------|---|------|
| LINE-L. H. BRAKE VALVE TO R. H. BRAKE VALVE (Cont.) |          |   |      |
|   | H - 15   | NUT .....   | 6    |
|   | P - 14   | PLUG .....  | 2    |
|   | P - 18   | PLUG .....  | 6    |
| LINE-R. H. BRAKE VALVE TO DOUBLE CHECK VALVE        |          |   |      |
| 26  | 188901H1 | CONNECTOR (Replaces 175772H1).....  | 1    |
| 27  | 175766H1 | TUBE .....  | 1    |
| 28  | 188902H1 | ELBOW (Replaces 175777H1 Elbow and 175778H1 Bushing) .....                | 1    |
| 29  | 174923H2 | VALVE, Double Check (Includes Items 30 thru 34) (Replaces 174923H1) ..... | 1    |
|   | P - 16   | PLUG .....  | 1    |
|   | 175081H1 | ELBOW .....   | 1    |
| 30  | 179053H2 | BODY (Replaces 179053H1) .....  | 1    |
| 31  | 179067H1 | GUIDE, Shuttle .....  | 1    |
| 32  | 179068H1 | SHUTTLE .....   | 1    |
| 33  | 179070H2 | CAP (Replaces 179070H1) .....   | 1    |
| 34  | 177625H1 | "O" RING (Replaces 179069H1 Gasket) .....                                 | 1    |
|   | 179071H2 | SCREW, W/Lockwasher (Replaces 179071H1) .....                             | 2    |
|   | WF-14    | WASHER, Flat .....  | 1    |
| LINE-L. H. BRAKE VALVE TO TRANS. DISCONNECT VALVE   |          |   |      |
|   | 151982H1 | BUSHING .....   | 1    |
| 35  | 164839H1 | ELBOW .....   | 2    |
| 36  | 175763H1 | TUBE .....  | 1    |
| 36A   |          | CYLINDER, Air .....   | 1    |
| LINE-DOUBLE CHECK VALVE TO HYDRAIR POWER CLUSTER    |          |   |      |
| 37  | 175772H1 | CONNECTOR .....   | 1    |
| 38  | 180118H1 | TUBE .....  | 1    |
| 39  | 175772H1 | CONNECTOR (Replaces 175777H1 Elbow) .....                                 | 1    |
| 40  | 164057H1 | HYDRAIR, Power Cluster (See Page 13-10) .....                             | 1    |
|   | HL-3552  | PLUG .....  | 1    |
|   | HL-3753  | GASKET .....  | 1    |
| LINE-HYDRAIR UNIT TO FRONT WHEELS                   |          |   |      |
| 41  | HL-3553  | CONNECTOR .....   | 1    |
|   | HL-3753  | GASKET .....  | 1    |
| 42  | 120613H1 | TUBE ASSEMBLY .....   | 1    |
| 43  | 146966H1 | TEE, Front Axle .....   | 1    |
|   | 172848H1 | CLIP .....  | 1    |
|   | S-147    | SCREW, Cap .....  | 1    |
|   | H - 14   | NUT .....   | 1    |
|   | WL-14    | WASHER, Lock .....  | 1    |
| 44  | 121104H1 | TUBE ASSEMBLY, To Front Wheels Cylinder .....                             | 2    |
|   | 139016H1 | STRAP, Tube to Axle Bolt .....  | 2    |
| LINE-HYDRAIR UNIT TO REAR WHEELS                    |          |   |      |
| 45  | HA-884   | GASKET .....  | 1    |
|   | 107689H1 | CONNECTOR .....   | 1    |
|   | HA-883   | GASKET .....  | 1    |
|   | HA-882   | BOLT .....  | 1    |
| 46  | 142852H1 | TUBE ASSEMBLY .....   | 1    |
| (Continued on following page)                       |          |   |      |



BRAKE & AIR CONNECTIONS (Continued)

| ITEM NO.                                     | PART NO. | PART NAME  | Qty. |
|--|----------|--|------|
| LINE-HYDRAIR UNIT TO REAR WHEELS (Continued) |          |  |      |
|  | H - 15   | NUT .....  | 1    |
|  | WL-15    | WASHER, Lock .....                                 | 1    |
| 47   | 169677H1 | REDUCER .....                                      | 1    |
|  | 156609H1 | CLAMP, Transmission Mounting Bolt .....            | 1    |
|  | H-310    | NUT .....  | 1    |
| 47A  | 174919H1 | BRACKET, Hose .....                                | 1    |
|  | S-158    | SCREW, Cap .....                                   | 1    |
| 48   | 175287H1 | HOSE, Frame to Tee .....                           | 1    |
| 49   | 174920H1 | TEE .....  | 1    |
|  | S-1616   | SCREW, Cap .....                                   | 1    |
|  | H - 16   | NUT .....  | 1    |
|  | WL-16    | WASHER, Lock .....                                 | 1    |
|  | HA-1332  | GASKET .....                                       | 1    |
| 50   | 174928H1 | HOSE, Tee to L.H. Brake Cylinder .....             | 1    |
| 51   | 110621H1 | TUBE ASSEMBLY, Tee to R.H. Coupling .....          | 1    |
|  | H-310    | NUT, Jam .....                                     | 1    |
|  | 174919H1 | BRACKET, Hose .....                                | 1    |
|  | S-1510   | SCREW, Cap .....                                   | 1    |
|  | H - 15   | NUT .....  | 1    |
|  | WL-15    | WASHER, Lock .....                                 | 1    |
|  | HA-1332  | GASKET .....                                       | 1    |
| 52   | 174927H1 | HOSE, Tube to R.H. Brake Cylinder .....            | 1    |
|  | 156608H1 | CLAMP .....  | 2    |
| LINE-L.H. BRAKE VALVE TO GAUGE               |          |  |      |
|  | 132667H1 | BUSHING .....                                      | 1    |
| 53   | 172832H1 | ELBOW .....  | 1    |
| 54   | 172833H1 | TUBE .....   | 1    |
| 55   | 172825H1 | UNION .....  | 1    |
| 56   | 180227H1 | TUBE .....   | 1    |
| 57   | 181084H1 | ELBOW .....  | 1    |
| 58   | 154893H1 | GAUGE, Air Pressure .....                          | 1    |
| LINE-RESERVOIR DRAIN                         |          |  |      |
| 59   | 164839H1 | ELBOW .....  | 2    |
| 60   | 182838H1 | TUBE .....   | 1    |
| 61   | 139439H1 | DRAIN COCK .....                                   | 1    |
| LINE-R. H. VALVE TO AIR HORN                 |          |  |      |
| 62   | 164839H1 | ELBOW .....  | 1    |
| 63   | 175765H1 | TUBING .....                                       | 1    |
| 64   | 175774H1 | CONNECTOR .....                                    | 1    |
| 65   | 157140H1 | VALVE, Horn .....                                  | 1    |
|  | S-148    | SCREW, Cap .....                                   | 2    |
|  | H - 14   | NUT .....  | 2    |
|  | WL-14    | WASHER, Lock .....                                 | 2    |
| 66   | 175775H1 | ELBOW .....  | 1    |
| 67   | 175764H1 | TUBING .....                                       | 1    |
| 68   | 175773H1 | CONNECTOR .....                                    | 1    |
| 69   |          | HORN (See Page 13-8) .....                         | 1    |
|  | S-1510   | SCREW, Cap .....                                   | 1    |
|  | H - 15   | SCREW, Cap .....                                   | 1    |
|  | WL-15    | WASHER, Lock .....                                 | 1    |
| 70   |          | AIR COMPRESSOR (Refer to your Engine Manual) ..... | 1    |

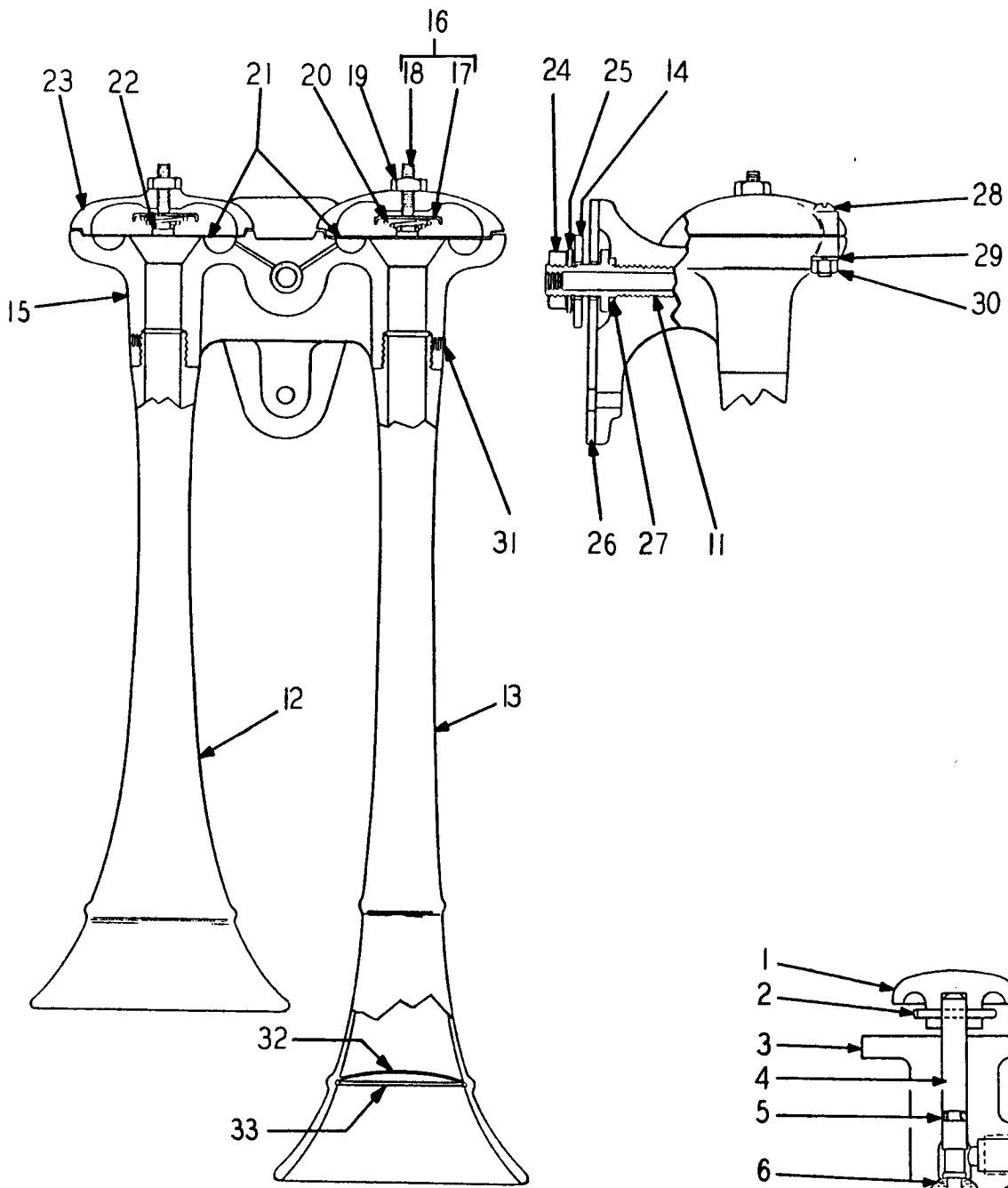


SAFETY VALVE

| ITEM NO. | PART NO. | PART NAME            | Qty. |
|----------|----------|----------------------|------|
| 1        | 139434H1 | VALVE, Safety .....  | 1    |
| 2        | 141244H1 | BODY .....           | 1    |
| 3        | 167871H1 | PIN, Release .....   | 1    |
| 4        | 140280H1 | NUT, Lock .....      | 1    |
| 5        | 140278H1 | SPRING .....         | 1    |
| 6        | 140275H1 | BALL .....           | 1    |
| 7        | 141245H1 | CAGE, Spring .....   | 1    |
|          | 140279H1 | NUT, Adjusting ..... | 1    |

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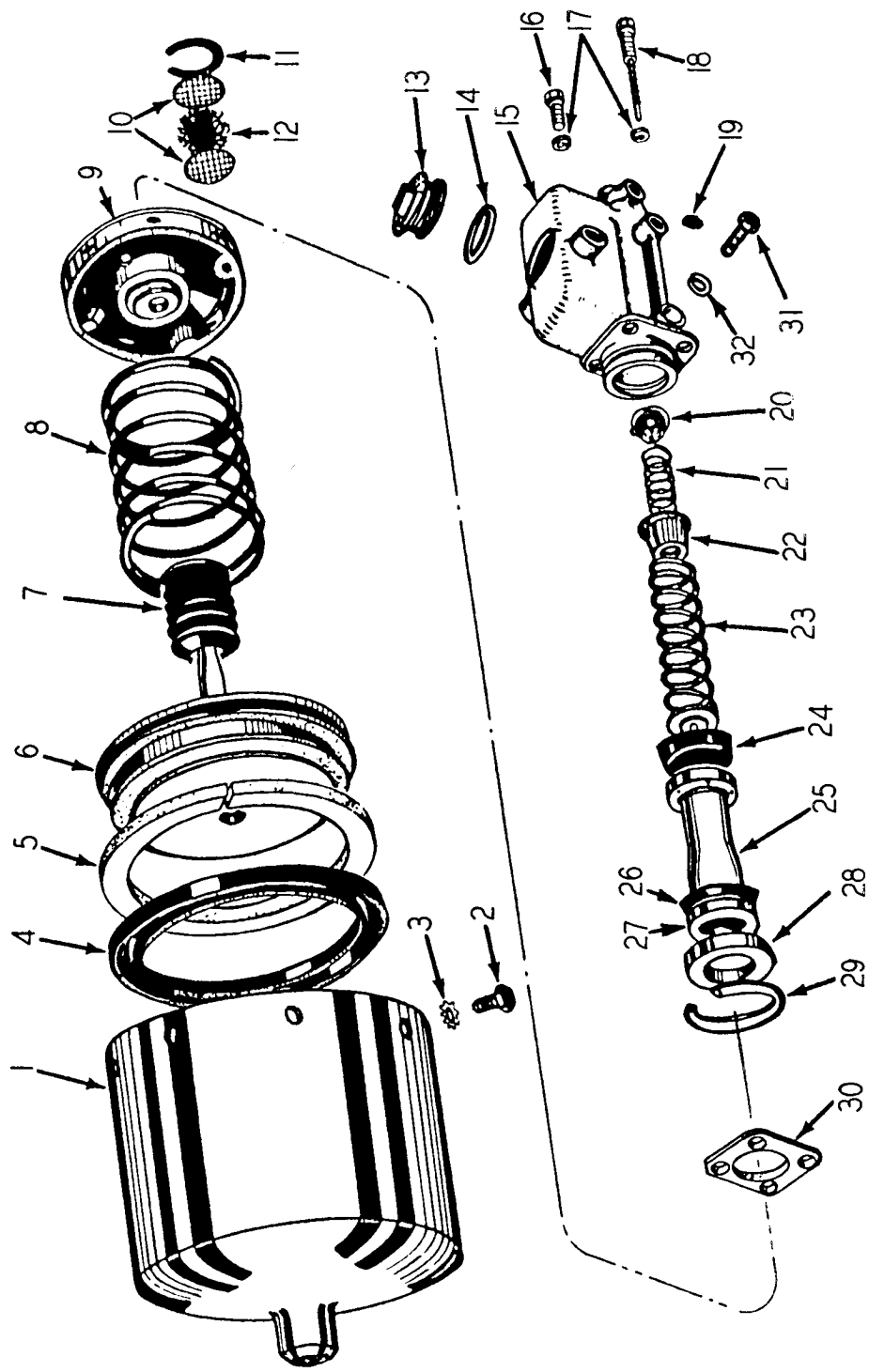
NOTES



AIR HORN

AIR HORN

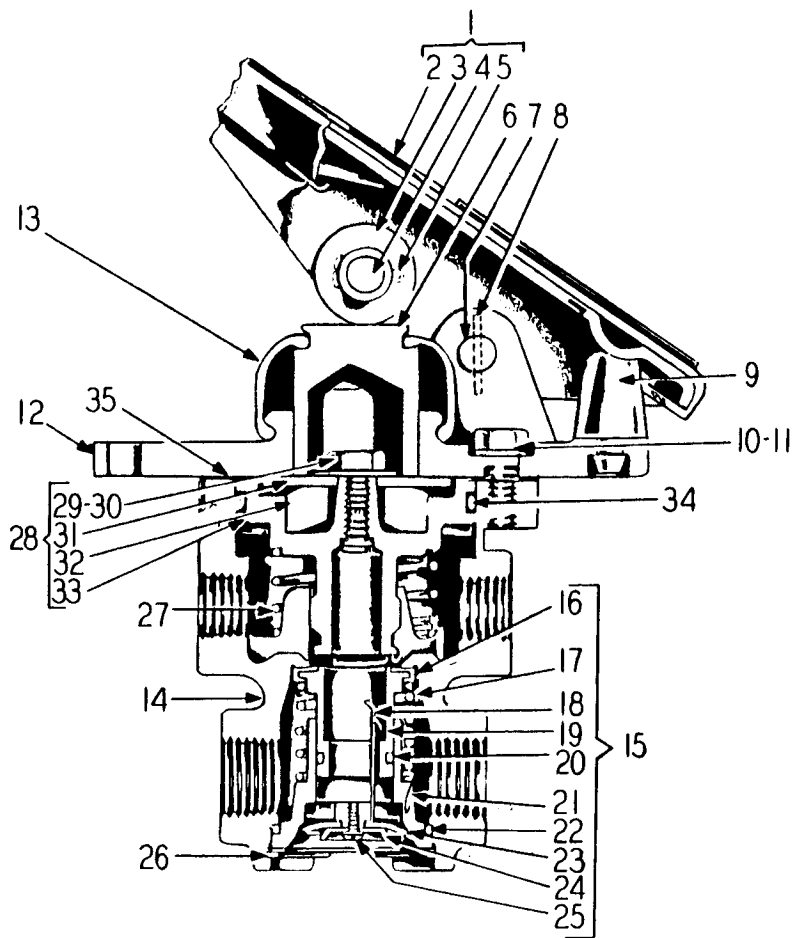
| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 157140H1 | BUTTON ASSEMBLY, Horn .....   | 1    |
| 1        | 158016H1 | BUTTON .....  | 1    |
| 2        | CP-36    | PIN, Cotter, 3/32" x 3/4" Plated .....                              | 1    |
| 3        |          | BODY, NSS .....   | 1    |
| 4        | 158012H1 | STEM .....  | 1    |
| 5        | OR4-1    | GROMMET, Stem .....   | 1    |
| 6        | 158013H1 | VALVE, Inlet .....  | 1    |
| 7        | 158014H1 | SEAT, Spring .....  | 1    |
| 8        | 158015H1 | SPRING .....  | 1    |
| 9        | 145986H1 | PLATE, Strainer .....   | 1    |
| 10       |          | CAP, NSS .....  | 1    |
|          | S-146    | SCREW, Cap .....  | 2    |
|          | H - 14   | NUT .....   | 2    |
|          | WL-14    | WASHER, Lock .....  | 2    |
| *        | 145775H1 | HORN ASSEMBLY .....   | 1    |
|          | 217165H1 | HORN ASSEMBLY .....   | 1    |
| 11       | 145988H1 | COUPLING, Mounting .....  | 1    |
| 11       | 219375H1 | COUPLING, Mounting .....  | 1    |
| 12       | 145989H1 | BELL, Short .....   | 1    |
| 13       | 145990H1 | BELL, Long .....  | 1    |
| 14       | 145991H1 | WASHER, Special .....   | 1    |
| 15       | 145992H1 | BODY .....  | 1    |
| 15       | 219435H1 | BODY .....  | 1    |
| 16       | 145993H1 | SEAT ASSEMBLY, Spring .....   | 2    |
| 17       | 145994H1 | SEAT, Spring .....  | 2    |
| 18       |          | SCREW, Set .....  | 2    |
| 19       | H - 45   | NUT, Lock .....   | 2    |
| 20       | 145995H1 | SPRING .....  | 2    |
| 21       | 145996H1 | DIAPHRAGM .....   | 2    |
| 22       | 145997H1 | CONTACT, Spring .....   | 2    |
| 23       | 145998H1 | COVER .....   | 2    |
| 23       | 219436H1 | COVER .....   | 2    |
| 24       | H-310-P  | NUT, Thin .....   | 1    |
| 25       | 138552H1 | WASHER, Mounting (Shakeproof 1228-04) .....                         | 1    |
| 26       | 145999H1 | GASKET .....  | 1    |
| 27       | OR4-11   | GROMMET .....   | 1    |
| 28       |          | SCREW, 1/4 Hex. 1" Cad. Plated Machine .....                        | 8    |
| 28       | 219437H1 | SCREW, 20 x 7/8" Rd. Head Machine .....                             | 8    |
| 29       | WL-14    | WASHER, Lock .....  | 8    |
| 29       | WL-24    | WASHER, Lock .....  | 8    |
| 30       | H-24-P   | NUT .....   | 8    |
| 31       | 219438H1 | SCREW, Set #10-24 x 1/4" Cad. Plated Socket Cup Point .....         | 2    |
| 32       | 146001H1 | SCREEN .....  | 2    |
| 33       | 146002H2 | RETAINER, Screen .....  | 2    |
|          | S-1510   | SCREW, Cap .....  | 1    |
|          | H - 15   | NUT .....   | 1    |
|          | WL-15    | WASHER, Lock .....  | 1    |
|          |          | *NOTE: 145775H1 - S/N 02901 thru 03134<br>217165H1 - S/N 03134 & UP |      |



POWER CLUSTER

POWER CLUSTER

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 164057H1 | POWER CLUSTER ASSEMBLY (Includes Items 1 thru 30) . . . . .                     | 1    |
|          | 165785H1 | CYLINDER ASSEMBLY, Air (Includes Items 1 thru 12) . . . . .                     | 1    |
| 1        | 165715H1 | SHELL, Air Cylinder . . . . .   | 1    |
| 2        | S-255    | SCREW, Cap . . . . .  | 8    |
| 3        | 138628H1 | WASHER, Lock . . . . .  | 8    |
| 4        | 165716H1 | CUP, Piston Air Cylinder . . . . .  | 1    |
| 5        | 165718H1 | WIPER, Air Cylinder . . . . .   | 1    |
| 6        | 165717H1 | PISTON & ROD, Air Cylinder . . . . .  | 1    |
| 7        | 165719H1 | BOOT, Piston Rod, Air Cylinder . . . . .  | 1    |
| 8        | 165720H1 | SPRING, Piston Return, Air Cylinder . . . . .                                   | 1    |
| 9        | 165721H1 | HEAD, Air Cylinder . . . . .  | 1    |
| 10       | 165722H1 | SCREEN, Head Filter, Air Cylinder . . . . .                                     | 2    |
| 11       | 165724H1 | RING, Head Filter, Air Cylinder . . . . .                                       | 1    |
| 12       | 165723H1 | HAIR, Head Filter, Air Cylinder . . . . .                                       | 1    |
|          | 165727H1 | CYLINDER ASSEMBLY, Hydraulic (Includes Items 13, 14, 15 & 19 thru 29) . . . . . | 1    |
| 13       | 165734H2 | PLUG, Tank Filler . . . . .   | 1    |
| 14       | 107639H1 | GASKET, Tank Filler . . . . .   | 1    |
| 15       | 165733H1 | CASTING, Cylinder & Tank . . . . .  | 1    |
| 16       | S-2612   | SCREW, Cap Hydraulic Cylinder Mounting . . . . .                                | 3    |
| 17       | WL-16    | WASHER, Lock Hydraulic Cylinder Mounting . . . . .                              | 4    |
| 18       | 165726H1 | INDICATOR, Piston Stroke Power Cluster . . . . .                                | 1    |
| 19       | P - 12   | PLUG, Drain . . . . .   | 1    |
| 20       | 165732H1 | VALVE & SEAT, Check . . . . .   | 1    |
| 21       | 165788H1 | SPRING, Check Valve Retainer . . . . .  | 1    |
| 22       | 165787H1 | RETAINER, Check Valve . . . . .   | 1    |
| 23       | 153856H1 | SPRING, Piston Return . . . . .   | 1    |
| 24       | 145943H1 | CUP, Piston Primary . . . . .   | 1    |
| 25       | 165786H1 | PISTON ASSEMBLY . . . . .   | 1    |
| 26       | 165731H1 | CUP, Piston Secondary . . . . .   | 1    |
| 27       | 169034H1 | BOOT . . . . .  | 1    |
| 28       | 165729H1 | PLATE, Piston Stop . . . . .  | 1    |
| 29       | 145946H1 | WIRE, Stop Plate Lock . . . . .   | 1    |
| 30       | 165725H1 | SPACER, Mounting Power Cluster . . . . .  | 1    |
| 31       | S-178    | SCREW, Cap . . . . .  | 3    |
| 32       | WL-17    | WASHER, Lock . . . . .  | 3    |
|          | 165735H1 | KIT, Power Cluster Repair (Includes Items 4, 5, 7, 12, 20, 24 and 25) . . . . . | 1    |

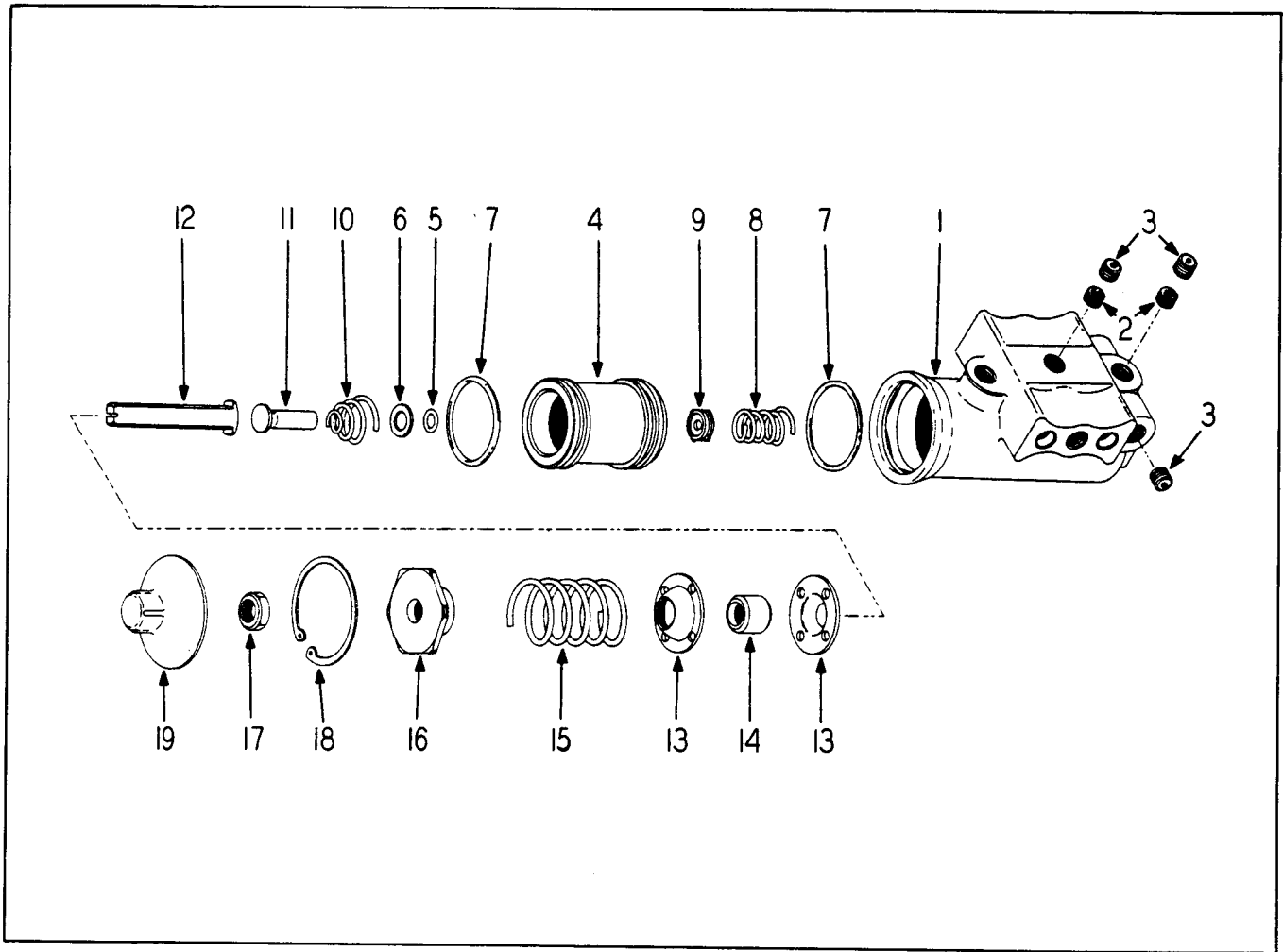


BRAKE TREADLE VALVE



BREAK TREADLE VALVE

| ITEM NO. | PART NO.  | PART NAME  | Qty. |
|----------|-----------|--|------|
|          | 162410H3  | BRAKE VALVE ASSEMBLY (Includes 178964H3 and Items 1 thru 36)<br>(replaces 162410H2)..... | 1    |
|          | 178964H3  | VALVE, Brake (Includes Items 14 thru 36) (replaces 178964H2) .....                       | 1    |
| 1        | 155378H1  | TREADLE ASSEMBLY (Includes Items 2 thru 5) .....   | 1    |
| 2        | 155379H1  | TREADLE .....  | 1    |
| 3        | 145973H1  | ROLLER .....   | 1    |
| 4        | 155380H1  | PIN, Roller .....  | 1    |
| 5        | CP-35     | PIN, Cotter .....  | 1    |
| 6        | 155381H1  | PLUNGER .....  | 1    |
| 7        | 178171H1  | PIN, Fulcrum .....   | 1    |
| 8        | 178172H1  | PIN, Roll .....  | 1    |
| 9        | 155382H1  | BUTTON, Stop .....   | 1    |
| 10       | S-256-P   | SCREW, Cap .....   | 3    |
| 11       | WL-15     | WASHER, Lock .....   | 3    |
| 12       | 155376H1  | PLATE, Mounting .....  | 1    |
| 13       | 155377H1  | BOOT .....   | 1    |
| 14       | 172304H1  | BODY .....   | 1    |
| 15       | 172305H1  | INLET & EXHAUST VALVE ASSEMBLY (Includes Items 16 thru 25)...                            | 1    |
| 16       | 179025H1  | RETAINER, Valve .....  | 1    |
| 17       | 172315H1  | SPRING, Valve .....  | 1    |
| 18       | 172307H1  | SPRING, Inlet Valve Preload .....  | 1    |
| 19       | 172312H1  | VALVE, Inlet & Exhaust.....  | 1    |
| 20       | 172314H1  | GROMMET, Valve .....   | 1    |
| 21       | 303572C1  | SEAT, Exhaust Check Valve (replaces 172306H1) .....                                      | 1    |
| 22       | 172311H1  | GROMMET, Exhaust Check Valve .....   | 1    |
| 23       | 172308H1  | DIAPHRAGM.....   | 1    |
| 24       | 172309H1  | WASHER, Diaphragm .....  | 1    |
| 25       | 164354H1  | SCREW, #8-32 x 3/8" Pan Hd. (replaces 172310H1 Screw<br>and Lockwasher) .....            | 1    |
| 26       | 299470R1  | RING, Snap (replaces 172317H1 Retaining Ring).....                                       | 1    |
| 27       | 172318H1  | SPRING, Piston Return .....  | 1    |
| 28       | 172319H2  | PISTON ASSEMBLY (Includes Items 29 thru 33) .....  | 1    |
| 29       | 179071H2  | SCREW, Special Hex. Hd. (replaces 172324H1 Capscrew).....                                | 1    |
| 30       | 172323H1  | WASHER.....  | 1    |
| 31       | 172322H1  | SEAT, Spring .....   | 1    |
| 32       | 172321H2  | SPRING, Rubber .....   | 1    |
|          | 876158C91 | PISTON, Complete (includes 172320H2 Piston).....   | 1    |
| 33       | 172320H2  | PISTON .....   | 1    |
| 34       | OR3-5     | GROMMET, Piston .....  | 1    |
| 35       | 172326H1  | RETAINER .....   | 1    |
|          | 876157C1  | FILTER, Vent .....   | 1    |
|          | 178170H1  | TREADLE SERVICE KIT (Includes Items 1 thru 5 and Items 7 & 8) ...                        | AR   |

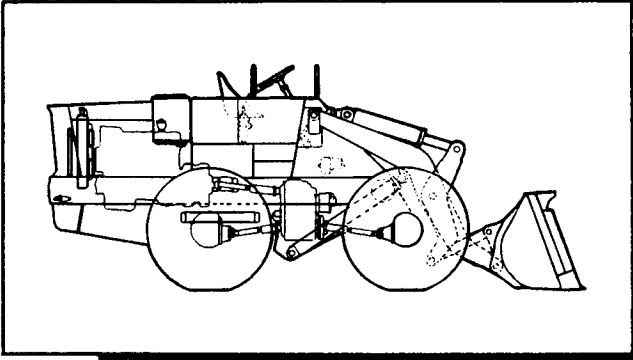


GOVERNOR

| ITEM NO. | PART NO. | PART NAME   | Qty. |
|----------|----------|---|------|
|          | 160446H2 | GOVERNOR ASSEMBLY (Includes the following)                    | 1    |
|          | 177601H1 | BODY ASSEMBLY (Includes Items 1 and 2)                        | 1    |
| 1        | 177618H1 | BODY  | 1    |
| 2        | 177619H1 | FILTER  | 1    |
| 3        | 151425H1 | PLUG, Pipe  | 2    |
|          | 177620H1 | PISTON ASSEMBLY, (Includes Items 4, 5 and 6)                  | 4    |
| 4        | 177621H1 | PISTON  | 1    |
| 5        | OR4-4    | "O" RING  | 1    |
| 6        | 177622H1 | WASHER  | 1    |
| 7        | 177625H1 | GROMMET, Piston   | 1    |
| 8        | 177624H1 | SPRING, Valve   | 2    |
| 9        | 177623H1 | VALVE (W/Insert)  | 1    |
| 10       | 177626H1 | SPRING, Exhaust Stem  | 1    |
| 11       | 177627H1 | STEM, Exhaust   | 1    |
|          | 177628H1 | ADJUSTING SCREW & SPRING ASSEMBLY (Includes Items 12 thru 17) | 1    |
| 12       | 177629H1 | SCREW, Adjusting  | 1    |
| 13       | 177630H1 | SEAT, Spring (Lower)  | 1    |
| 14       | 177631H1 | GUIDE, Spring   | 2    |
| 15       | 177632H1 | SPRING  | 1    |
| 16       | 177633H1 | SEAT, Spring (Upper)  | 1    |
| 17       | H - 24   | NUT   | 1    |
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**SECTION 14**

**ACCESSORIES  
&  
ATTACHMENTS**



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|            | 127607H3 | PLATE, Serial Number .....                                       | 1    |
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|            | 112364H2 | DECAL (Water) .....  | 1    |
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|            | 131850H2 | DECAL (Safety Instruction) .....                                 | 1    |
|            | 145270H2 | DECAL (Air Reservoir) .....                                      | 1    |
|            | 177855H1 | DECAL, Converter Oil Temperature .....                           | 1    |
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BUCKETS

H-70F

All capacities calculated by SAE formula.  
All widths are nominal over-all dimensions.

| BUCKET    | WIDTH   | CAPACITY                                    | EDGE                    | TIP      | SIDE EDGE | TEETH                                |
|-----------|---------|---|-------------------------|----------|-----------|--------------------------------------|
| 179080H1  | 102 in. | 3.59 cu. yd. struck<br>2.971 cu. yd. rated  | 172757H1<br>(Incl. Tip) | 172758H1 | 162251H1  | 178692H1                             |
| 180285H1* | 96 in.  | 2.32 cu. yd. struck<br>2.656 cu. yd. rated  | 171839H1<br>(Incl. Tip) | 171841H1 | 162251H1  | 178692H1                             |
| 181186H1  | 102 in. | 4.67 cu. yd. struck<br>5.203 cu. yd. rated  | 172757H1<br>(Incl. Tip) | 172758H1 | 162251H1  | 178692H1                             |
| 189698H1  | 92 in.  | 3.125 cu. yd. struck<br>3.481 cu. yd. rated | 189835H1<br>(Incl. Tip) | 174263H1 | 162251H1  | 178692H1                             |
| 208291H1  | 102 in. | 2-1/2 cu. yd. struck<br>2-3/4 cu. yd. rated | 208295H1<br>(Incl. Tip) | 208297H1 | 162251H1  | 208331H1 Bolt On<br>215404H1 Weld On |
| 209172H1  | 102 in. | 2-3/4 cu. yd. struck<br>3 cu. yd. rated     | 208295H1<br>(Incl. Tip) | 208297H1 | 162251H1  | 208331H1 Bolt On<br>215404H1 Weld On |
| 211595H1  | 106 in. | 2-1/4 cu. yd. struck<br>2-1/2 cu. yd. rated | 210941H1<br>(Incl. Tip) | 210943H1 | 162251H1  | 208331H1 Bolt On<br>215404H1 Weld On |
| 213941H1  | 106 in. | 2-1/2 cu. yd.<br>(Est. Capacity)            | 213953H1                |          |           | 208331H1 Bolt On<br>215404H1 Weld On |
| 210033H1  | 96 in.  | 2-1/2 cu. yd. rated                         | 216869H1                | 216871H1 | 162251H1  | Same                                 |
| 212110H1  | 102 in. | 3-3/4 cu. yd. rated                         | 208295H1                | 208297H1 | 162251H1  | Same                                 |

\* Standard unless other bucket equipment is specified.

TIRE EQUIPMENT

H-70F

TIRE EQUIPMENT: Standard tire equipment for each "PAYLOADER" is listed in its corresponding parts manual, and will be mounted as standard equipment unless otherwise specified. Below is a list of the most commonly used alternates. For job applications requiring tires not listed below, please contact your local dealer or the Sales Department of International Harvester Company. Tires and tubes are not sold by the Hough Division.

| TIRE SIZE  | WHEEL    | FLANGE   | LOCK RING | TUBELESS ONLY |          | TUBE ONLY      |          |
|------------|----------|----------|-----------|---------------|----------|----------------|----------|
|            |          |          |           | "O" RING      | VALVE    | BEAD SEAT BAND | FLAP     |
| 16:00 x 24 | 150415H1 | 138546H1 | 138547H1  | 138548H1      | 155150H1 |                | 140717H1 |
| 20:50 x 25 | 162774H2 | 139158H1 | 141255H1  | 141253H1      | 171692H1 | 141254H1       |          |
| 16:00 x 25 | 168324H1 | 139158H1 | 141255H1  | 141253H1      | 171692H1 | 142881H1       |          |

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| 201 877 H1  | 4 - 7       | 205 524 H1  | 2 - 11      | 210 463 H1  | 12 - 11     | 875 511 C91  | 1 - 9       |
| 202 133 H1  | 12 - 7      | 205 574 H1  | 11 - 11     | 211 013 H1  | 4 - 7       | 875 512 C1   | 1 - 9       |
| 203 378 H1  | 1 - 9       | 205 575 H1  | 11 - 11     | 211 015 H1  | 4 - 13      | 875 513 C1   | 1 - 9       |
| 203 425 H1  | 10 - 7      | 205 576 H1  | 4 - 11      | 211 662 H1  | 1 - 3       | 875 514 C91  | 1 - 9       |
| 203 980 H1  | 3 - 3       | 205 576 H1  | 4 - 13      | 211 870 H1  | 4 - 4       | 875 515 C1   | 1 - 9       |
| 204 024 H1  | 4 - 4       | 205 848 H1  | 9 - 3       | 211 870 H1  | 4 - 8       | 875 852 C1   | 2 - 20      |
| 204 024 H1  | 4 - 8       | 205 920 H1  | 12 - 3      | 211 925 H1  | 9 - 14      | 875 999 C91  | 4 - 4       |
| 204 025 H1  | 4 - 4       | 205 920 H1  | 12 - 11     | 212 071 H3  | 14 - 2      | 875 999 C91  | 4 - 8       |
| 204 025 H1  | 4 - 8       | 205 946 H2  | 2 - 7       | 212 307 H1  | 9 - 9       | 876 157 C1   | 13 - 13     |
| 204 026 H1  | 4 - 4       | 205 947 H1  | 2 - 7       | 213 157 H1  | 13 - 3      | 876 158 C91  | 13 - 13     |
| 204 026 H1  | 4 - 8       | 205 951 H1  | 4 - 4       | 213 197 H1  | 2 - 11      | 876 416 C1   | 7 - 5       |
| 204 028 H1  | 4 - 4       | 205 951 H1  | 4 - 8       | 213 519 H1  | 2 - 3       | 876 417 C1   | 7 - 5       |
| 204 028 H1  | 4 - 8       | 205 953 H1  | 2 - 7       | 213 791 H1  | 9 - 11      | 876 425 C1   | 4 - 8       |
| 204 029 H1  | 4 - 4       | 205 957 H1  | 2 - 11      | 213 835 H1  | 9 - 11      | 876 426 C91  | 4 - 8       |
| 204 029 H1  | 4 - 8       | 205 961 H1  | 2 - 11      | 213 877 H1  | 9 - 11      | 876 427 C1   | 4 - 8       |
| 204 030 H1  | 4 - 4       | 205 966 H1  | 2 - 3       | 213 878 H1  | 9 - 11      | 876 428 C91  | 4 - 8       |
| 204 030 H1  | 4 - 8       | 205 970 H1  | 2 - 3       | 214 294 H1  | 9 - 11      | 996 716 R1   | 2 - 24      |
| 204 031 H1  | 4 - 4       | 205 990 H1  | 10 - 3      | 214 295 H1  | 9 - 11      | 7 181 773 H1 | 10 - 11     |
| 204 031 H1  | 4 - 8       | 206 076 H2  | 2 - 20      | 214 298 H1  | 9 - 11      |              |             |
| 204 032 H1  | 4 - 4       | 206 086 H1  | 2 - 25      | 214 338 H1  | 11 - 9      |              |             |
| 204 032 H1  | 4 - 8       | 206 087 H1  | 2 - 25      | 214 339 H1  | 11 - 9      |              |             |
| 204 035 H2  | 4 - 4       | 206 088 H1  | 9 - 3       | 214 460 H1  | 6 - 3       |              |             |
| 204 035 P2  | 4 - 8       | 206 088 H1  | 9 - 5       | 214 604 H1  | 9 - 3       |              |             |
| 204 036 H1  | 1 - 8       | 206 168 H1  | 2 - 3       | 214 604 H1  | 9 - 5       |              |             |
| 204 038 H1  | 4 - 4       | 206 169 H1  | 2 - 3       | 214 972 H1  | 2 - 15      |              |             |
| 204 038 H1  | 4 - 8       | 206 169 H1  | 9 - 6       | 215 080 H1  | 2 - 11      |              |             |
| 204 040 H1  | 4 - 4       | 206 439 H1  | 10 - 11     | 215 080 H1  | 13 - 3      |              |             |
| 204 040 H1  | 4 - 8       | 206 441 H1  | 10 - 11     | 215 112 H1  | 14 - 2      |              |             |
| 204 041 H1  | 4 - 4       | 206 518 H2  | 10 - 7      | 215 440 H1  | 7 - 5       |              |             |
| 204 041 H1  | 4 - 8       | 206 520 H2  | 10 - 7      | 215 457 H1  | 1 - 8       |              |             |
| 204 042 H1  | 4 - 4       | 206 522 H1  | 10 - 7      | 215 479 H1  | 10 - 7      |              |             |
| 204 042 H1  | 4 - 8       | 206 556 H1  | 10 - 3      | 215 486 H1  | 10 - 7      |              |             |
| 204 043 H1  | 4 - 4       | 206 557 H1  | 10 - 3      | 215 487 H1  | 10 - 7      |              |             |
| 204 043 H1  | 4 - 8       | 206 559 H1  | 10 - 3      | 215 488 H1  | 10 - 7      |              |             |
| 204 044 H1  | 4 - 4       | 206 586 H3  | 11 - 7      | 216 057 H1  | 11 - 11     |              |             |
| 204 044 H1  | 4 - 8       | 206 589 H1  | 10 - 11     | 216 400 H1  | 6 - 4       |              |             |
| 204 050 H1  | 4 - 3       | 206 636 H1  | 10 - 3      | 216 604 H1  | 10 - 3      |              |             |
| 204 061 H1  | 4 - 5       | 206 637 H1  | 10 - 3      | 216 779 H1  | 7 - 5       |              |             |
| 204 061 H1  | 4 - 9       | 206 664 H2  | 10 - 3      | 216 839 H1  | 7 - 4       |              |             |
| 204 067 H1  | 6 - 7       | 206 665 H1  | 10 - 3      | 216 869 H1  | 1 - 3       |              |             |
| 204 067 H1  | 7 - 8       | 206 667 H1  | 10 - 4      | 217 165 H1  | 13 - 9      |              |             |
| 204 103 H1  | 4 - 3       | 206 938 H1  | 9 - 9       | 217 680 H1  | 2 - 19      |              |             |
| 204 103 H1  | 4 - 7       | 206 939 H1  | 9 - 9       | 217 681 H1  | 2 - 19      |              |             |
| 204 167 H1  | 4 - 4       | 206 940 H1  | 9 - 9       | 217 682 H1  | 2 - 19      |              |             |
| 204 167 H1  | 4 - 8       | 206 941 H1  | 9 - 9       | 218 247 H1  | 6 - 4       |              |             |
| 204 195 H1  | 7 - 3       | 207 043 H1  | 1 - 5       | 219 375 H1  | 13 - 9      |              |             |
| 204 197 H1  | 6 - 3       | 207 050 H3  | 10 - 7      | 219 435 H1  | 13 - 9      |              |             |
| 204 200 H1  | 2 - 3       | 207 080 H1  | 2 - 20      | 219 436 H1  | 13 - 9      |              |             |
| 204 309 H1  | 5 - 4       | 207 081 H2  | 2 - 20      | 219 437 H1  | 13 - 9      |              |             |
| 204 310 H1  | 5 - 2       | 207 090 H1  | 9 - 9       | 219 438 H1  | 13 - 9      |              |             |
| 204 311 H1  | 5 - 3       | 207 093 H1  | 9 - 9       | 219 537 H2  | 1 - 3       |              |             |
| 204 353 H1  | 4 - 4       | 207 106 H1  | 10 - 4      | 220 328 H1  | 10 - 4      |              |             |
| 204 353 H1  | 4 - 8       | 207 154 H1  | 9 - 6       | 220 649 H1  | 4 - 11      |              |             |
| 204 532 H1  | 3 - 4       | 207 157 H1  | 9 - 6       | 220 650 H1  | 4 - 11      |              |             |
| 204 533 H1  | 3 - 3       | 207 158 H1  | 9 - 6       | 220 650 H1  | 4 - 13      |              |             |
| 204 534 H1  | 3 - 3       | 207 159 H1  | 9 - 6       | 220 651 H1  | 4 - 11      |              |             |
| 204 536 H1  | 3 - 3       | 207 161 H1  | 5 - 4       | 220 651 H1  | 4 - 13      |              |             |
| 204 586 H1  | 2 - 24      | 207 197 H1  | 5 - 4       | 220 652 H1  | 4 - 11      |              |             |
| 204 587 H1  | 2 - 23      | 207 198 H1  | 5 - 4       | 220 652 H1  | 4 - 13      |              |             |
| 204 588 H1  | 2 - 22      | 207 203 H2  | 14 - 2      | 220 653 H1  | 4 - 11      |              |             |
| 204 593 H1  | 2 - 22      | 207 204 H2  | 14 - 2      | 220 653 H1  | 4 - 13      |              |             |
| 204 664 H2  | 9 - 14      | 207 218 H1  | 1 - 5       | 220 654 H1  | 4 - 13      |              |             |
| 204 720 H1  | 10 - 3      | 207 253 H2  | 9 - 9       | 220 734 H1  | 11 - 11     |              |             |
| 204 725 H2  | 10 - 3      | 207 396 H1  | 1 - 3       | 220 735 H1  | 11 - 11     |              |             |
| 204 731 H1  | 2 - 3       | 208 345 H2  | 12 - 7      | 220 736 H1  | 11 - 11     |              |             |
| 204 743 H1  | 10 - 4      | 208 659 H1  | 11 - 4      | 220 737 H1  | 11 - 11     |              |             |
| 204 796 H1  | 3 - 3       | 208 860 H1  | 11 - 12     | 221 015 H1  | 10 - 3      |              |             |
| 204 797 H1  | 3 - 4       | 208 952 H1  | 10 - 3      | 221 114 H1  | 10 - 3      |              |             |
| 204 798 H1  | 3 - 4       | 208 970 H1  | 5 - 4       | 221 362 H2  | 1 - 9       |              |             |
| 204 823 H1  | 1 - 5       | 208 971 H1  | 5 - 4       | 221 398 H1  | 7 - 4       |              |             |
| 204 824 H1  | 1 - 5       | 209 134 H1  | 1 - 5       | 221 418 H1  | 2 - 4       |              |             |
| 204 965 H1  | 2 - 16      | 209 135 H1  | 1 - 5       | 221 423 H1  | 4 - 7       |              |             |
| 205 014 H1  | 7 - 4       | 209 518 H1  | 10 - 4      | 221 424 H1  | 4 - 7       |              |             |