

MODEL TD8E
CRAWLER TRACTOR

FORM
PC-TD 8E-2

APRIL, 1980
With Partial Revision No. 1

(Supersedes Form PC-TD 8E-1)

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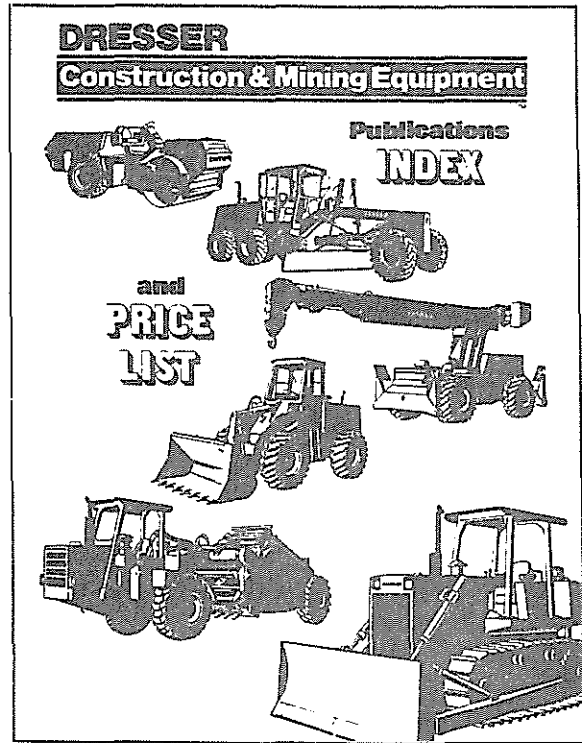
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()	1 019 104 R13 (or later)	PAY LINE Index and Price List	2.00
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TO THE OWNER

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

When ordering parts, always give the following information.

1. The IH part number, including suffix or prefix letters, the name of the part and the quantity needed. Do not include the illustration reference number.
2. The complete chassis or engine serial number of the machine including the Kind, Variation, and Country of Origin codes, and the serial sequence number. (Refer to par. 8 of "INTRODUCTION.")
3. When ordering parts for units which may have their own serial number such as transmission, torque converter, blade or bucket, drive axle, etc., also include the serial number of such units.

We suggest that you write the serial numbers for your machine in the spaces provided below, for ready reference when parts are needed.

Chassis Serial No.

(Stamped on the serial number plate located on the left side of the seat support, also on upper right hand side near rear face of rear main frame)

Engine Serial No.

(Stamped on a pad on the right side (the center) of the engine crankcase)

ROPS Canopy

Hydraulic Bulldozer

INTRODUCTION

(1) **GENERAL.** This catalog contains a list of chassis service parts for the following crawler:

TD-8 (Series E) Power Shift
TD-8 (Series E) Power Shift with Backhoe

This crawler is equipped with a DT-239 four cylinder turbo-charged diesel engine. For service parts information covering the engine, refer to the EPC-239 parts catalog.

(2) **ILLUSTRATIONS.** Parts in this catalog are illustrated by the "exploded view" method. Individual parts in each illustration are shown where they belong in relation to one another. Parts illustrated are of typical parts and not necessarily detailed drawings. Reference numbers only are shown in each illustration. These numbers correspond with numbers in the Reference Number column in the accompanying list of parts. Parts in illustrations without reference numbers are the same as duplicate parts with reference numbers.

NOTE: When ordering parts do not include the reference number. Use only the IH part number and description.

(3) **METHOD OF LISTING.** This catalog is divided into major sections which, in turn, are subdivided into units. Parts are listed in order according to reference number shown in the illustration, followed by a full description based upon the "noun first" method--i.e., the noun name of the part is listed first then the modifying descriptive information which serves to specifically identify the item. For example: SHAFT w/two PLUGS, valve lever. Parts not shown in illustrations appear at end of list in alphabetical sequence by noun name. Parts listed will work on all units covered in this catalog unless a serial number or other qualifying designation is given for purpose of identification.

Throughout this catalog the terms LEFT, RIGHT, FRONT and REAR indicate the sides of the machine when facing forward in the operator's seat.

(4) **ASSEMBLIES.** Whenever possible the component parts of assemblies are indicated in the illustrations by the use of boxes, brackets or arrows. When this cannot be done, the component parts of an assembly will be shown in the list. To avoid duplicate listings of similar assemblies or attachments, several of them may be combined in one list. In these cases, the assemblies or attachments are shown at the beginning of the parts list and identified with the letters A,

B, C, etc. Individual parts in the list will have corresponding letters after their descriptions to identify which assembly or attachment it is used in. Individual parts without identifying letters are used in all of the assemblies or attachments shown at the beginning of the list.

(5) **QUANTITIES.** The quantity of each individual part follows its description. Where no quantity is shown it is understood to mean that only (1) is used. In most cases, the quantity indicates the total required per machine. The only exception to this rule is when an assembly is shown at the beginning of the list which consists of all the individual parts in the list following it. In these cases, quantities shown with individual parts are the total required per assembly.

(6) **NOTES AND SYMBOLS.** Throughout this catalog, numbered notes and symbols are used to designate certain recurring peculiarities. The explanation of these are as follows:

NOTE 1 - Field Application - Order through regular service parts channels.

NOTE 2 - Field Application - Order on Machine Order Form.

NOTE 3 - Attachment no longer available, service parts will be furnished.

\$ - Individual parts of an assembly, kit, package or attachment, which are not available for service. In these cases, the complete assembly, kit, package or attachment must be ordered for service.

- Serial number not available.

X - As required. (Used when quantities are variable.)

Appropriate notations are made throughout the parts listings, when necessary, to explain all other peculiarities.

(7) **MISCELLANEOUS PARTS.** Standard bolts, screws, nuts, etc.-- are not identified by a reference number. These parts are known as COMMON HARDWARE items and appear in abbreviated nomenclature and are shown indented under the major items with which they are used. They should be ordered as listed, since they are not component parts of the pieces they attach. Hardware parts with six digit C1 or R1 part numbers are designed for a specific use and should not be substituted with common hardware parts.

INTRODUCTION

(8) SERIAL NUMBERS.

Machine Model	Model Code (Kind)	Variation Code	Country of Origin	Serial Sequence No.
TD-8E Power Shift	442	0007	U (U.S.A.)	005001
TD-8E Power Shift w/ Backhoe	442	0008	U (U.S.A.)	005001
TD-8E Power Shift w/ G8H Bullgrader	442	0009	U (U.S.A.)	005001

Usually, only sequence numbers without preceding zeros are shown in the parts list. When necessary Country of Origin and Variation Code may also be shown, in which case the preceding zeros of the sequence numbers will be included.
Example:

Sequence number - 5075
Country of Origin - U005075
Variation - 7U005075

Refer to Section Two for "Quick Reference List for Filter Elements and Belts."

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REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

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The following list of attachments are available for the TD-8E

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REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

MISCELLANEOUS

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MISCELLANEOUS

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MISCELLANEOUS

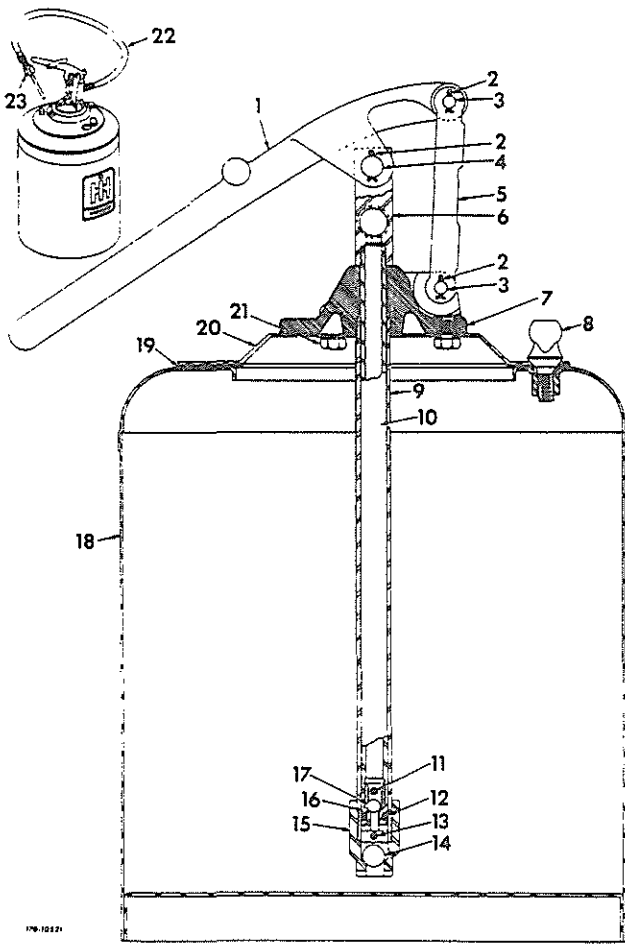
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION			
PRODUCT GRAPHICS			626 271 C1	PRODUCT GRAPHIC, dozer control (For all Units w/one or two spool equipment control valves)				
636 117 C91	PACKAGE, identification product graphics (Consists of -		715 896 C1	PRODUCT GRAPHIC, pressure filter indicator (Part of ATTACHMENT, 636 807 C91 and ATTACHMENT, 679 042 C91)				
	\$ 2 PRODUCT GRAPHIC, "International" (on hood)		1 124 918	PRODUCT GRAPHIC, general caution				
	\$ 1 PRODUCT GRAPHIC, "International" (on rear stripe)							
	\$ 1 PRODUCT GRAPHIC, "IH" monogram (on fuel tank)							
	\$ 1 PRODUCT GRAPHIC, "IH" monogram (on instrument panel guard)							
	\$ 2 PRODUCT GRAPHIC, "TD-8E" model symbol)							
622 805 C91	PACKAGE, instructional product graphics (Consists of -		TOOLS AND TOOL BOX					
	\$ 1 NAMEPLATE, ether injector							
	\$ 1 NAMEPLATE, start switch							
	\$ 1 PRODUCT GRAPHIC, air cleaner instruction							
	\$ 1 PRODUCT GRAPHIC, alternator instruction							
	\$ 1 PRODUCT GRAPHIC, angle control							
	\$ 1 PRODUCT GRAPHIC, backhoe mounting warning							
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	\$ 1 PRODUCT GRAPHIC, diesel							
	\$ 1 PRODUCT GRAPHIC, diverter angle and ripper control							
	\$ 1 PRODUCT GRAPHIC, diverter control							
	\$ 1 PRODUCT GRAPHIC, diverter clam and ripper control							
	\$ 1 PRODUCT GRAPHIC, dozer control							
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	\$ 1 PRODUCT GRAPHIC, ether start warning (diesel)							
	\$ 1 PRODUCT GRAPHIC, engine fan position for backhoe							
	\$ 1 PRODUCT GRAPHIC, "Hydraulic Oil"							
	\$ 1 PRODUCT GRAPHIC, loader control							
	\$ 1 PRODUCT GRAPHIC, master switch "on-off"							
	\$ 1 PRODUCT GRAPHIC, "Made in U.S.A."							
	\$ 1 PRODUCT GRAPHIC, ripper control							
	\$ 1 PRODUCT GRAPHIC, safety bar							
	\$ 1 PRODUCT GRAPHIC, safety lock)							
626 239 C1	PRODUCT GRAPHIC, angle control (For all Units w/three spool equipment control valve)					1	621 577 C1	BOX, tool
622 808 C1	PRODUCT GRAPHIC, backhoe diverter control					2	310 944 R91	NOZZLE, track roller lubricator
626 238 C1	PRODUCT GRAPHIC, dozer control (For all Units w/three spool equipment control valve)					3	645 240 C1	TOOL, fan reversing (for backhoe models)
						4	999 677 R91	LUBRICATOR, hand type (15 oz. size) (Part of ATTACHMENT, 999 677 R91)
			622 242 C1	EXTENSION, 12 in. curved grease gun				
			999 819 R91	COUPLER, hydraulic				
			715 423 C1	COUPLING, female (Used w/quick disconnect PLUG, 715 370 C1)				
			543 965 R91	ATTACHMENT, stabilizer check valve (Consists of one VALVE 543 965 R91) (See NOTE 3)				
			999 677 R91	ATTACHMENT, lubricator hand type (Consists of LUBRICATOR, 999 677 R91) (See NOTE 3)				

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MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION
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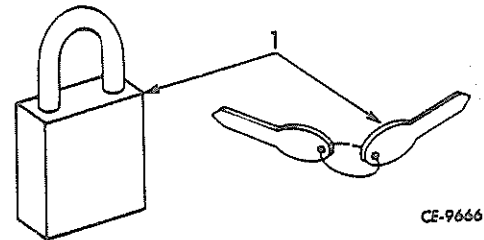
LUBRICATOR



REF. NO.	PART NUMBER	DESCRIPTION
----------	-------------	-------------

12	53 203 D	PACKING, piston
13	53 201 D	PIN, foot valve
14	17 014 R1	BALL, check (Replaces 16 014 R1)
15	53 199 D	BODY, foot valve
16	53 198 D	PISTON, plunger
17	39 659 D	BALL, pump check
18	53 209 D	CONTAINER w/GASKET, 278 919 R1 and three SCREW, 179 790
19	278 919 R1	GASKET, container cover
20	310 924 R91	COVER, container
21	179 790 115 547	SCREW, hex-hd cap (3) WASHER, internal-tooth lock (3)
22	53 207 D	HOSE, lubricator (3 ft. long)
23	310 944 R91	NOZZLE, lubricator

PADLOCK WITH KEYS



	309 015 R91	LUBRICATOR ASSY (Composed of -
1	55 482 D	HANDLE, lever
2	103 372	PIN, cotter (3)
3	40 638 D	PIN, toggle (2)
4	40 635 D	PIN, handle
5	277 153 R1	TOGGLE
6	53 202 D	OUTLET, pump
7	310 923 R1	BODY, pump
8	55 479 D	SCREW, container cover (3)
9	53 206 D	TUBE, pump
10	53 205 D	ROD, piston
11	53 200 D	PIN, piston

1	650 382 C91	PADLOCK w/KEYS
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MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FORESTRY PACKAGE					
632 757 C91		PACKAGE, Forestry (Machine must be equipped with ROPS canopy, blower fan, armored core radiator and radiator cap lock) (Not used with backhoe) (See NOTE 2) (Consists of -			
	1	ATTACHMENT, roof extension 632 563 C91			
	1	ATTACHMENT, canopy rear screen 632 564 C91			
	1	ATTACHMENT, canopy front sweeps 632 565 C92			
	1	ATTACHMENT, exhaust pipe extension 632 748 C92			
	1	ATTACHMENT, engine enclosure 632 751 C91			
	1	ATTACHMENT, heavy duty radiator door 706 089 C91			
	1	ATTACHMENT, fuel tank bottom guard 706 165 C91)			

AIR

NOT USED ON THIS MACHINE

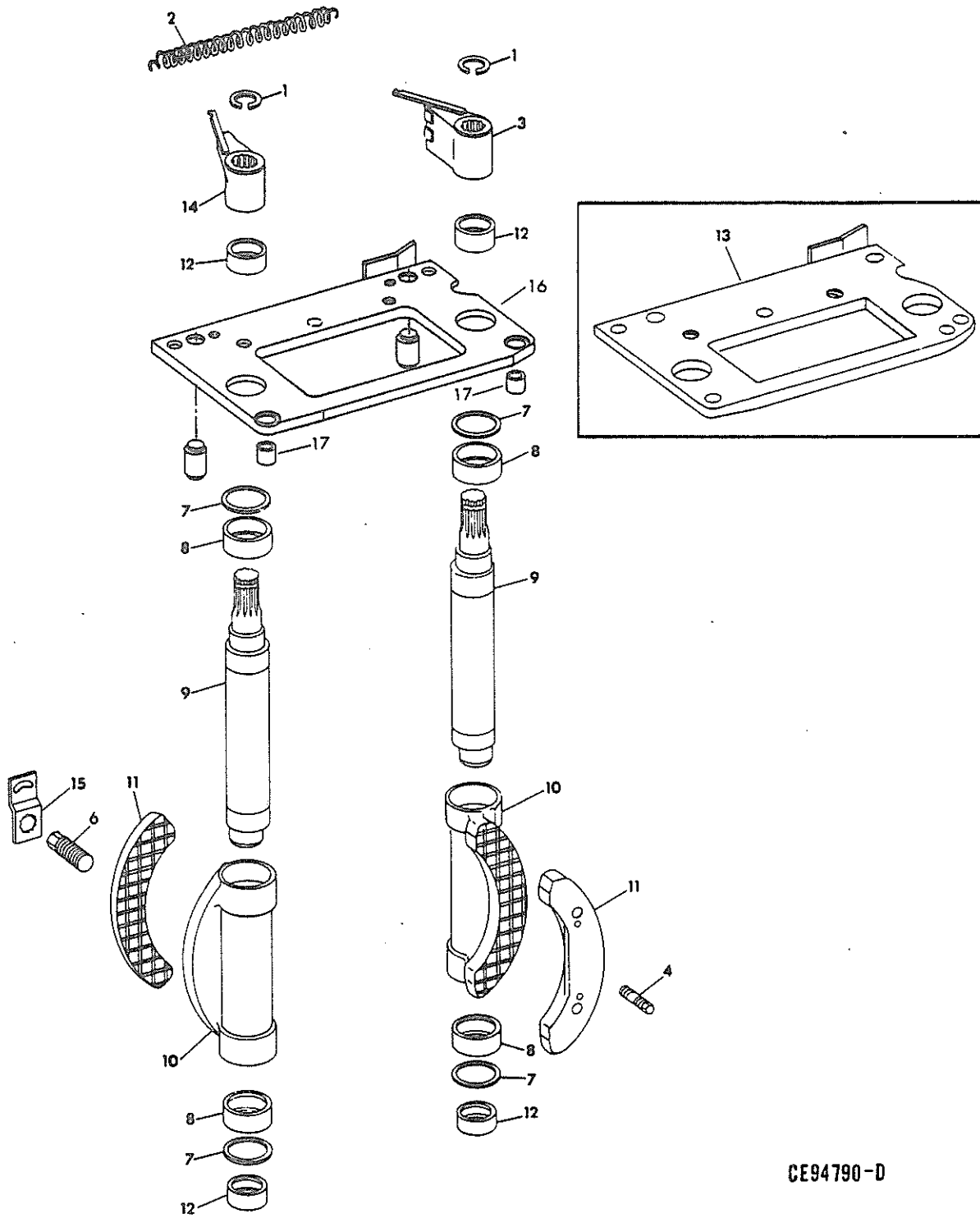


**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

BRAKES

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BRAKE SHOES AND LEVERS



CE94790-D

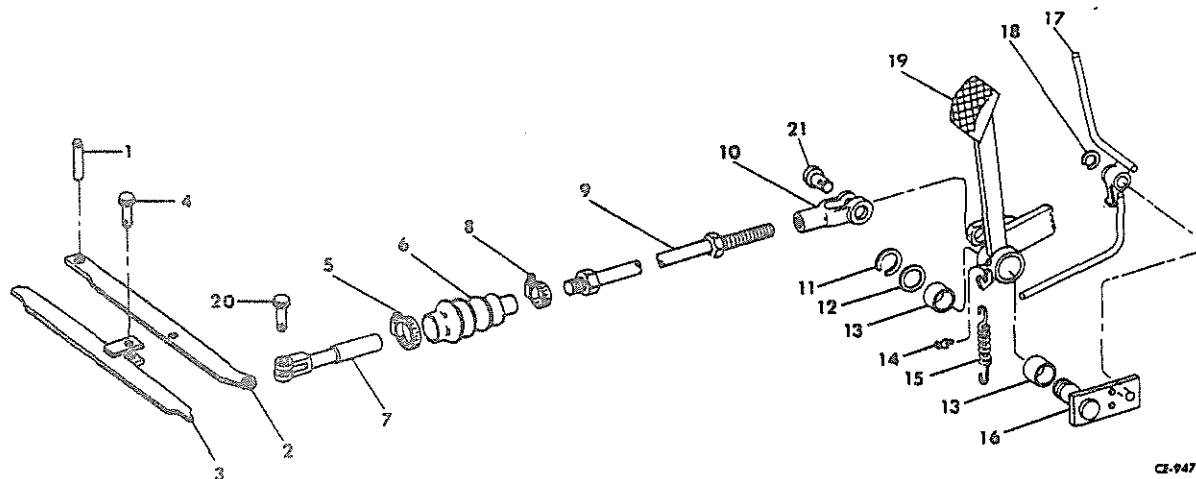
BRAKES

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BRAKE SHOES AND LEVERS - Continued					
1	621 036 C1	RING, lever retaining (4)			
2	360 677 R1	SPRING, shoe return (2)			
3	621 032 C1	LEVER-LH, steering brake			
3	621 033 C1	LEVER-RH, steering brake			
4	621 040 C1 219 760	SCREW, brake back-up shoe seal (2) NUT, jam (2)			
5	621 087 C1	DOWEL (4)			
6	621 039 C1	SCREW, clutch back-up shoe adjustment (2)			
7	621 026 C1	WASHER, actuating shoe thrust (8)			
8	675 708 R91	BEARING, needle (8)			
9	621 025 C1	SHAFT, brake and clutch actuating shoe eccentric (4)			
10	621 021 C91	SHOE, w/two BEARING, 675 708 R91, brake clutch actuating (4)			
11	621 037 C1	SHOE, brake and clutch back-up (4)			
12	621 090 C91	BEARING, needle (8)			
13	622 026 C92	PLATE w/two BEARING, 621 090 C91 and two Dowel, 621 087 C1, RH, steering shaft support (Used w/REAR MAIN FRAME ASSY, 621 544 C93)			
13	622 025 C92	PLATE w/two BEARING, 621 090 C91 and two DOWEL, 621 087 C1, LH, steering shaft support (Used w/REAR MAIN FRAME ASSY, 621 544 C93)			
	24 864 R1	BOLT (4)			
	25 546 R1	WASHER (4)			
14	621 027 C1	LEVER-LH, steering clutch			
14	621 028 C1	LEVER-RH, steering clutch			
15	621 822 C1	PLATE, lock (2)			
	24 839 R1	SCREW, hex-hd cap (2)			
	120 930	WASHER, external tooth lock (2)			
16	733 233 C91	PLATE w/two BEARING, 621 090 C91 and two DOWEL, 621 087 C1, LH, steering shaft support (Used w/REAR MAIN FRAME ASSY, 733 288 C91)			
16	733 234 C91	PLATE w/two BEARING, 621 090 C91 and two DOWEL, 621 087 C1, RH, steering shaft support (Used w/REAR MAIN FRAME ASSY, 733 288 C91)			
	24 864 R1	BOLT (4)			
	25 546 R1	WASHER (4)			
17	733 227 C1	SPACER (4)			

BRAKES

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BRAKE CONTROLS (FOOT PEDAL)



CE-94739

1	621 319 C1	PIN, brake actuator pivot	19	621 300 C91	PEDAL w/two BUSHING, 621 307 C1, brake
2	621 318 C1	BAR, brake actuator	20	103 499 103 385	PIN, rod end PIN, cotter
3	621 310 C1	BAR, brake equalizer	21	103 498 103 385	PIN, rod end PIN, cotter
4	103 498 103 385	PIN, brake actuator rod end PIN, cotter			
5	681 896 C1	CLAMP, brake boot (large)			
6	621 317 C1	BOOT, brake			
7	621 313 C1 114 496	CLEVIS, brake rod rear NUT, NF jam			
8	27 702 R1	CLAMP, brake boot (small)			
9	621 316 C2	ROD, brake			
10	19 457 R1 145 406	CLEVIS, rod end adjustment, (short L-H) NUT, NF L-H jam			
11	347 421 R1	RING, brake pedal shaft snap			
12	514 161 R1	WASHER, brake pedal shaft			
13	621 307 C1	BUSHING (2)			
14	126 152	FITTING, brake pedal lubrication			
15	333 074 R1	SPRING, brake pedal return			
16	621 302 C1 25 274 R1 116 121	PLATE, brake pedal mounting SCREW, hex-hd cap (3) WASHER, lock (3)			
17	632 350 C1 25 536 R1	PAWL, brake lock WASHER, flat			
18	269 192 R1	RING, brake lock pawl snap (2)			

NOT USED ON THIS MACHINE



REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

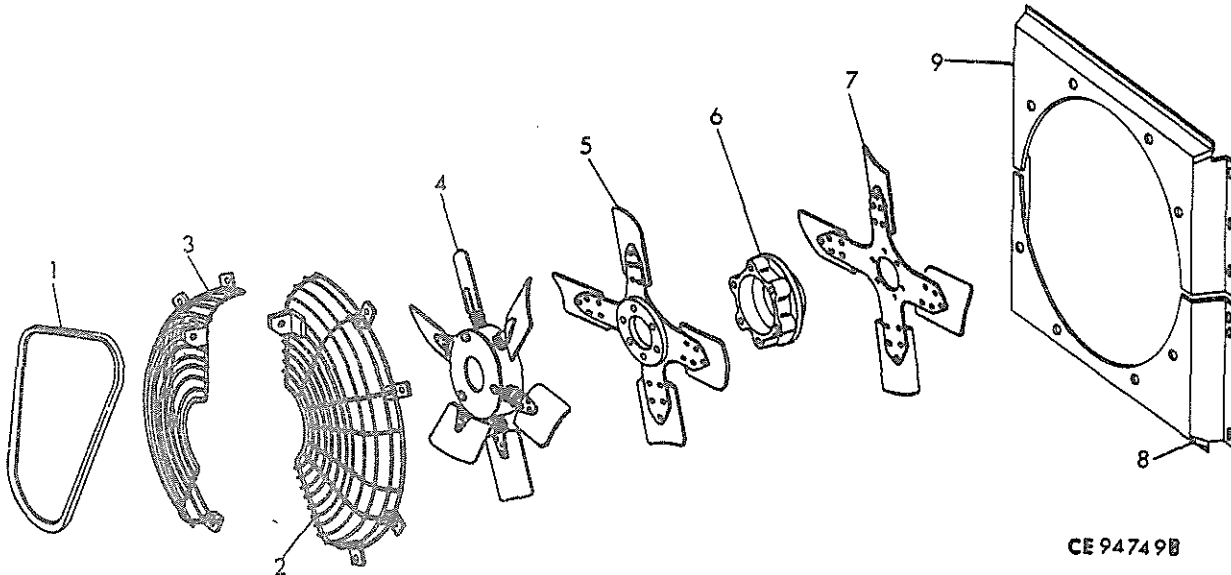
COOLING

6

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FAN, FAN BELT AND RELATED PARTS



CE 94749B

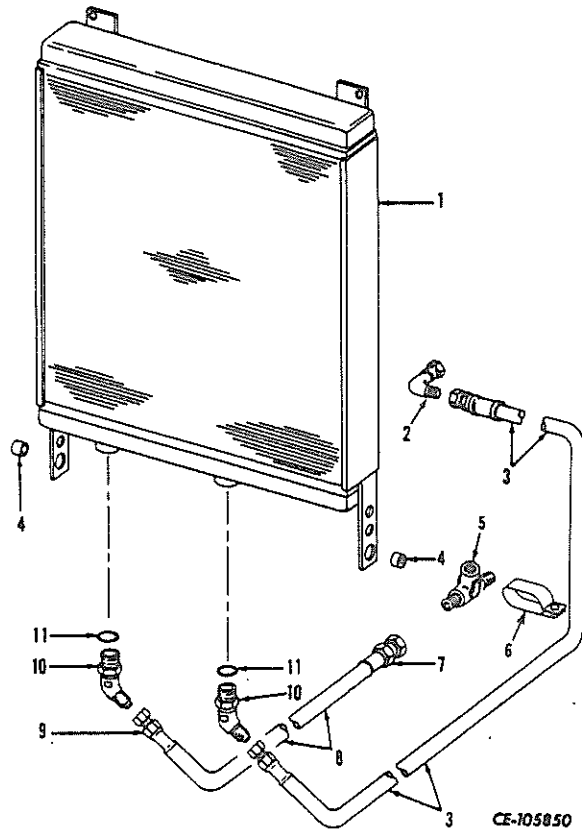
1	621 770 C1	BELT, fan, and water pump	8	701 482 C1	HOUSING, lower fan (Optional w/ HOUSING 701 483 C1) (Replaces 630 237 C1 and 713 123 C1)
2	622 514 C1	GUARD, RH fan	9	701 483 C1	HOUSING, upper fan (Optional w/ HOUSING 701 482 C1) (Replaces 619 922 C91 and 713 124 C1)
	25 522 R1	NUT		24 839 R1	SCREW, hex-hd cap (10)
	24 839 R1	SCREW, hex-hd cap (5)		115 093	WASHER, lock (10)
	115 093	WASHER, lock (5)		103 341	WASHER, flat (10)
	103 341	WASHER, flat (5)			
3	622 513 C1	GUARD, LH fan			
	24 839 R1	SCREW, hex-hd cap (4)			
	115 093	WASHER, lock (4)			
	103 341	WASHER, flat (4)			
4	619 985 C1	FAN, reversible			
	25 751 R1	SCREW, hex-hd cap (6)			
	116 120	WASHER, lock (6)			
5	625 383 C1	FAN, blower (not used on backhoe models)			
	25 493 R1	SCREW, hex-hd cap (6)			
	116 120	WASHER, lock (6)			
6	3 055 300 R1	SPACER, fan (for use with suction fan)			
7	619 921 C1	FAN, suction (not used on backhoe models)			
	25 750 R1	SCREW, hex-hd cap (6)			
	116 120	WASHER, lock (6)			

(Rev. No. 1)

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION OIL COOLER AND PIPING



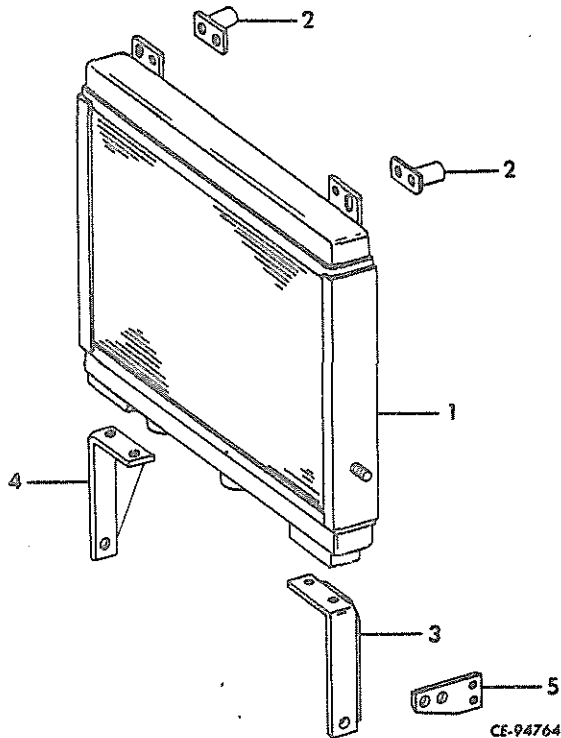
7		FITTING, female swivel hose (Order HOSE ASSY, 656 554 C2)
8	656 554 C2	HOSE w/FITTING, tee to oil cooler, (HOSE 5/8" ID x 26" long including FITTINGS) 6177 and below
8	713 372 C1	HOSE w/FITTINGS, torque converter to oil cooler (HOSE 5/8" ID x 55" long including FITTINGS) 6178 and up
9		FITTING, female swivel hose (Order HOSE ASSY, 656 554 C2)
10	9 411 107	ELBOW, cooler inlet and outlet (2)
11	368 269 R1	RING, cooler elbow sealing (2)
	622 749 C1	BRACKET, cooler cable anchor
	24 839 R1	SCREW, hex-hd cap
	115 093	WASHER, lock
	622 450 C1	CABLE, oil cooler support
	9 413 979	NUT, lock
	25 534 R1	WASHER, flat (2)
	308 576 R1	CLAMP, oil cooler hose
	525 820 R1	SPACER, oil cooler hose clamp
	24 842 R1	SCREW, hex-hd cap (Replaces screw on converter housing cover)
	327 273 R91	STRAP, cooler inlet and outlet hose

1	661 182 C91	COOLER, transmission oil (Optional w/COOLER 637 360 C2)
1	637 360 C2	COOLER, transmission oil (Optional w/COOLER 661 182 C91)
	24 861 R1	SCREW, 1/2" dia. hex-hd cap (2)
	24 840 R1	SCREW, 3/8" dia. hex-hd cap (2)
	25 526 R1	NUT (2)
	116 121	WASHER, lock (2)
	25 536 R1	WASHER, flat (4)
	142 127 R1	WASHER, hardened (2)
2	9 410 256	ELBOW, 45° oil cooler hose in regulator lube tee
3	656 553 C1	HOSE w/two FITTINGS, cooler to regulator lube port (HOSE 5/8" ID x 75" long including FITTINGS)
4	474 047 R1	SPACER, cooler hinge (2)
5	9 403 062	TEE, oil cooler hose 6177 and below
6	317 262 R1	CLAMP, oil cooler hose
	24 839 R1	SCREW, hex-hd cap
	115 093	WASHER, lock
	103 341	WASHER, flat

COOLING

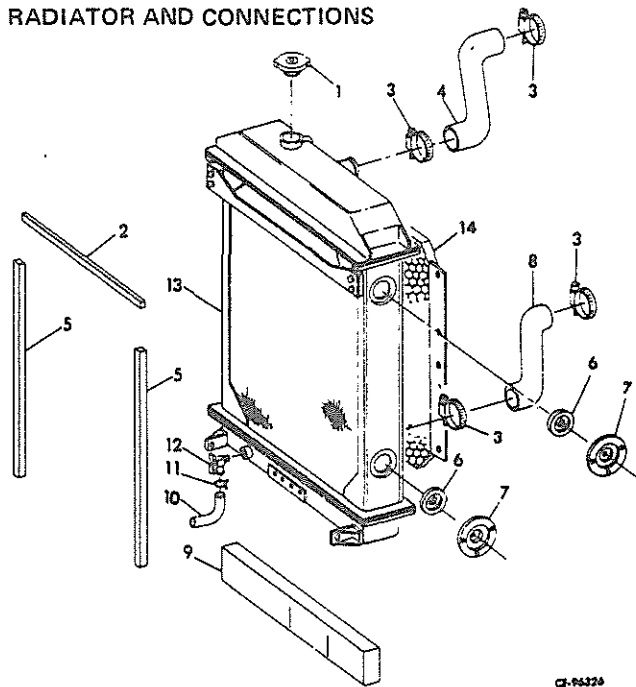
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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HYDRAULIC OIL COOLER (For All Backhoe Models)



1	661 451 C91 24 840 R1 115 093	COOLER, hydraulic oil (Optional with COOLER, 619 933 C2) SCREW, hex-hd cap (2) WASHER, lock (2)
2	645 253 C1 275 804 R1 25 544 R1	SPACER (2) SCREW, hex-hd cap (2) WASHER, hardened (2)
3	622 744 C1 24 849 R1 115 314	BRACKET, LH cooler bottom SCREW, hex-hd cap (2) WASHER, lock (2)
4	622 745 C1 24 849 R1 115 314	BRACKET, RH cooler bottom SCREW, hex-hd cap (2) WASHER, lock (2)
5	645 261 C1 25 522 R1 25 529 R1 24 840 R1 24 886 R1 115 093 28 035 K 551 658 R1	BRACKET, cooler bottom (2) NUT, 3/8" dia. (4) NUT, 3/4" dia. (2) SCREW, 3/8" dia. hex-hd cap (4) SCREW, 3/4" dia. hex-hd cap (2) WASHER, lock (4) WASHER, 13/32" dia. flat (4) WASHER, 25/32" dia. flat (2)

RADIATOR AND CONNECTIONS



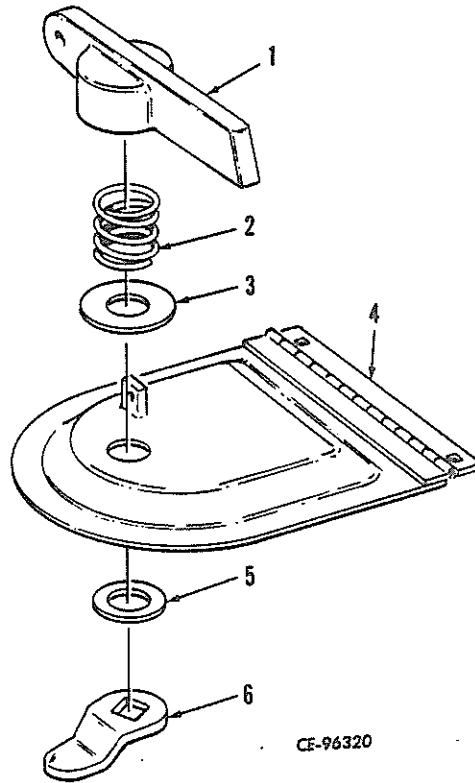
1	713 389 C2	CAP, radiator
2	622 460 C1	SEAL, radiator top air
3	279 038 R91	CLAMP, radiator inlet and outlet hose (4)
4	622 463 C2	HOSE, radiator inlet
5	622 465 C1	SEAL, radiator side air (2)
6	274 287 R2	MOUNTING, radiator rubber (4)
7	622 456 C1 24 859 R1 116 121	BRACKET, radiator mounting (4) SCREW, hex-hd cap (12) WASHER, lock (12)
8	622 464 C1	HOSE, radiator outlet
9	622 461 C1	SEAL, radiator bottom air
10	622 462 C1	HOSE, radiator drain
11	210 511 R1	CLAMP, drain hose
12	148 344	VALVE, radiator drain
13		RADIATOR ASSY, (Refer to "Radiator")
14	619 990 C1 140 581	SHIELD, sand (Not used with Armored Core Radiator) (%) CLAMP, radiator overflow tube (3)

(%) - Two radiators are available. One is manufactured by Modine and the other by Perfex. Modine radiators can be identified by the manufacturer's name tag soldered on the upper radiator tank, next to the water inlet. Perfex radiators can be identified by the manufacturer's name plate located in the middle of the radiator core, on the side facing the engine.

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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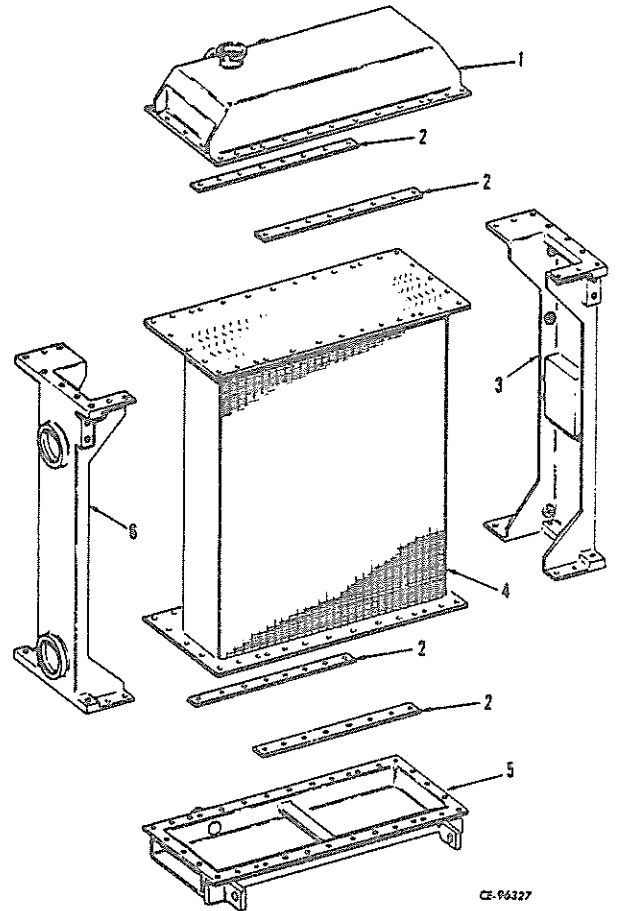
RADIATOR FILLER CAP LOCK



CE-96320

1	622 539 C1	HANDLE, locking
2	562 008 R1	SPRING, handle
3	92 779 R1	WASHER, handle thrust
4	622 535 C2	DOOR, radiator cap access
	24 839 R1	SCREW, hex-hd cap
	25 522 R1	NUT (2)
	115 093	WASHER, lock (2)
5	Q-3481	WASHER, locking pawl spacer
6	622 759 C1	PAWL, access door locking
	24 839 R1	SCREW, hex-hd cap
	114 606	WASHER, ext. tooth
	28 035 K	WASHER, flat

RADIATOR
(Perfex) (%)



CE-96327

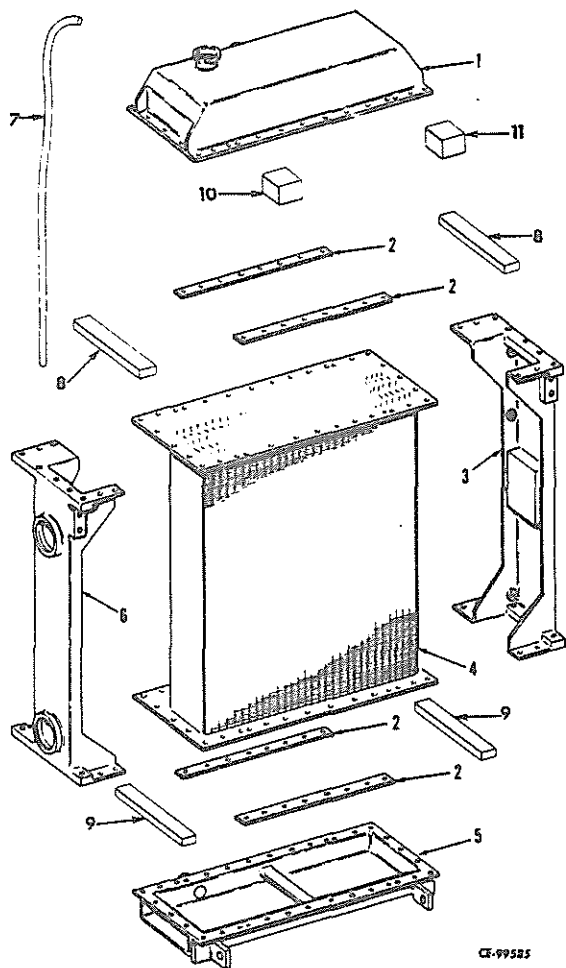
A		Service parts for radiator (Not Armored Core)
B		Service parts for radiator (Armored Core)
1	625 731 C1	TANK, radiator top
	102 634	NUT (18)
	179 818	SCREW, 1" long hex-hd cap (16)
	179 817	SCREW, 7/8" long hex-hd cap (18)
	103 320	WASHER, lock (34)
2	347 844 R1	WASHER, radiator core (4)
3	625 734 C1	MEMBER, L.H. side
4	625 739 C1	CORE, radiator (Radiator A)
4	625 737 C1	CORE, armored radiator (Radiator B)

(%) — Two radiators are available. One is manufactured by Modine and the other by Perfex. Modine radiators can be identified by the manufacturer's name tag soldered on the upper radiator tank, next to the water inlet. Perfex radiators can be identified by the manufacturer's name plate located in the middle of the radiator core, on the side facing the engine.

COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
RADIATOR - Continued (Perfex) (%)			RADIATOR - Continued (Modine) (%)		
5	625 735 C1	TANK, radiator bottom	A		Service parts for radiator (Not Armored Core)
	102 634	NUT (24)	B		Service parts for radiator (Armored Core)
	179 818	SCREW, 1" long hex-hd cap (10)			
	179 817	SCREW, 7/8" long hex-hd cap (24)			
	103 320	WASHER, lock (34)			
6	625 733 C1	MEMBER, R.H. side	1	630 250 C1	TANK, radiator top
	347 845 R1	GASKET, radiator core (Order and cut as required) (4)		25 493 R1	SCREW, hex-hd cap (34)
				103 320	WASHER, lock (34)
				116 120	NUT, (22)
			2	630 257 C1	BAR, tank header (4)
			3	630 259 C1	MEMBER, LH side
			4	630 263 C1	CORE, radiator (Radiator A)
			4	630 266 C1	CORE, armored radiator (Radiator B)

RADIATOR (Modine) (%)



5	630 260 C1	TANK, radiator bottom
	102 634	NUT, (22)
	179 818	SCREW, hex-hd cap (34)
	103 320	WASHER, lock (34)
6	630 258 C1	MEMBER, RH side
7	864 794 R1	HOSE, radiator overflow
8	630 252 C1	BAR, top tank end (2)
9	630 261 C1	BAR, bottom tank end (2)
10	630 253 C1	BLOCK, RH mounting
11	630 254 C1	BLOCK, LH mounting
	630 255 C1	GASKET, strip (4)
	630 256 C1	GASKET, top end strip (2)
	630 262 C1	GASKET, bottom end strip (2)

(%) — Two radiators are available. One is manufactured by Modine and the other by Perfex. Modine radiators can be identified by the manufacturer's name tag soldered on the upper radiator tank, next to the water inlet. Perfex radiators can be identified by the manufacturer's name plate located in the middle of the radiator core, on the side facing the engine.

REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

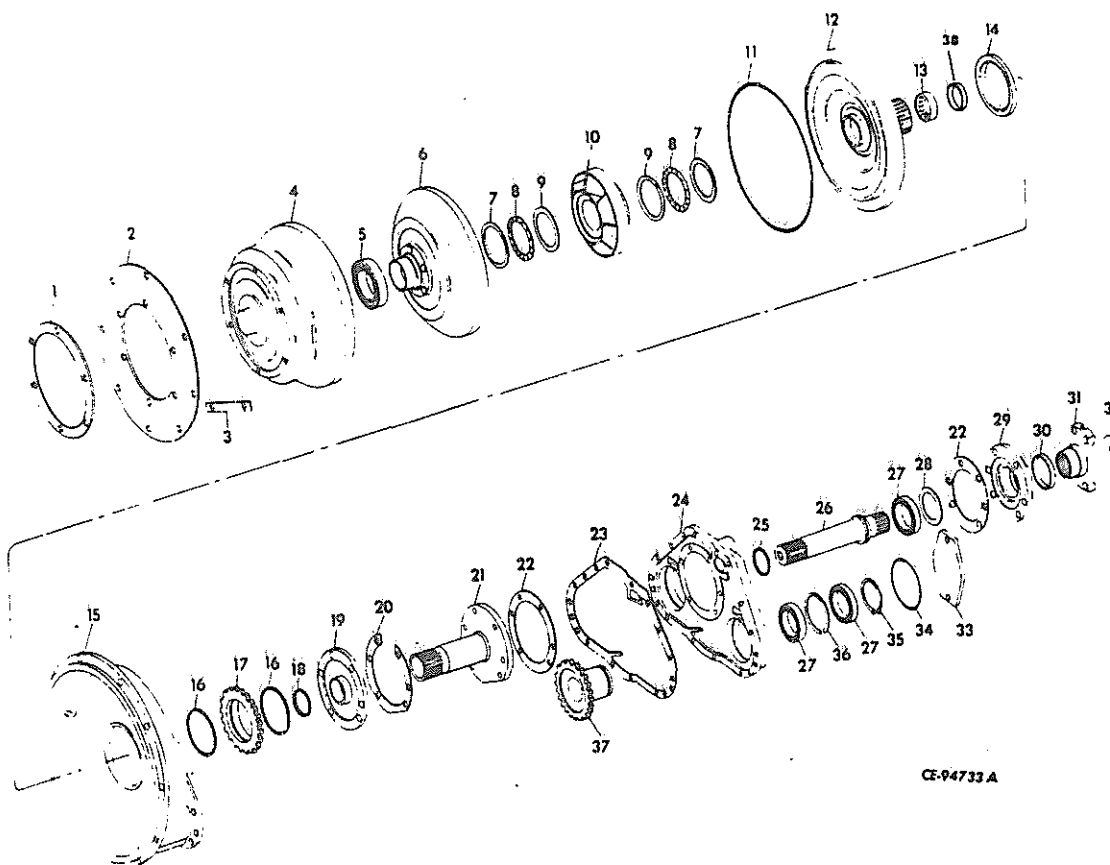
DRIVE TRAIN

7

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TORQUE CONVERTER AND RELATED PARTS



CE-94733A

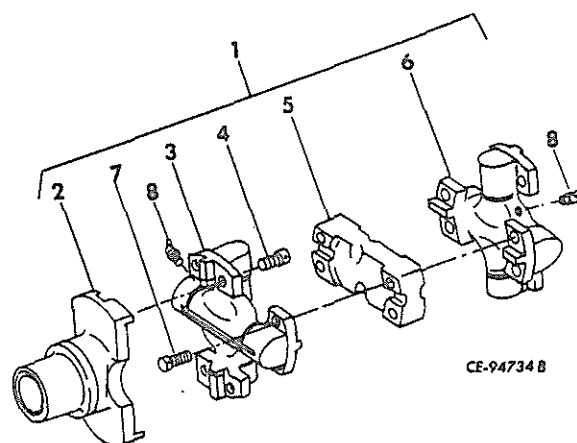
	619 916 C91	CONVERTER ASSY, torque		10	619 974 C1	STATOR
	26 316 R1	SCREW, 1/2" dia. hex-hd cap (8)		11	627 193 C1	RING, seal
	25 497 R1	SCREW, 3/8" dia. hex-hd cap (12)		12	619 960 C91	IMPELLER w/BEARING, 625 885 C91 converter
	25 534 R1	WASHER, lock (12)			161 132 H1	BOLT (12)
	25 336	WASHER, flat (12)		13	625 885 C91	BEARING, impeller hub
1	619 951 C1	RING, clamp		14	619 621 C91	SEAT, oil
	25 769 R1	BOLT (6)		15	619 968 C1	HOUSING, converter
2	619 966 C2	DISC, flexible flywheel			149 212 H1	PIN, dowel (2)
3	619 952 C1	STRIP, clamp (4)		16	202 451 H1	RING, output shaft external snap (2)
4	619 963 C1	HOUSING, converter drive		17	619 954 C1	GEAR, accessory drive
5	606 265 C91	BEARING, turbine hub		18	625 062 C1	RING, output shaft piston hook type seal
6	619 975 C91	TURBINE		19	619 958 C1	BLOCK, retainer
7	374 041 R1	WASHER, thrust (2)				
8	625 060 C91	BEARING, thrust (2)				
9	619 893 C1	WASHER, thrust (2)				

(Rev. No. 1)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TORQUE CONVERTER AND RELATED PARTS - Continued			625 879 C93	KIT, torque converter shim, seal, and gasket (Consists of -	
20	619 957 C1	GASKET, ground sleeve	2	GASKET	619 956 C1
21	619 964 C1	HUB, ground sleeve (30T)	1	GASKET	619 957 C1
22	619 956 C1	GASKET, output shaft bearing retainer (2)	1	GASKET	619 965 C1
23	619 965 C1	GASKET, power take-off cover	2	RING	202 451 H1
24	619 967 C1	COVER, power take-off	1	RING	619 972 C1
	101 896 R1	SCREW, hex-hd cap (15)	1	RING	625 062 C1
	123 920	WASHER, lock (15)	1	RING	627 193 C1
25	619 972 C1	RING, ground sleeve hub seal	1	SEAL	619 621 C91
26	619 959 C1	SHAFT, turbine output	1	SEAL	619 982 C91
27	ST-205A	BEARING, output shaft ball (5)	\$ 2	SHIM (.005")	
28		SHIM, output shaft bearing (Order KIT, 625 879 C93)	\$ 2	SHIM (.010")	
29	619 961 C1	RETAINER, output shaft bearing	\$ 1	SHIM (.020")	
	21 318 R1	SCREW, hex-hd cap (6)	\$ 1	SLEEVE	
	273 062 R1	WASHER, seal (6)			
30	619 982 C91	SEAL, output shaft bearing oil			
31	619 962 C1	FLANGE, output			
	140 483 H	SCREW, hex-hd cap			
	115 314	WASHER, lock			
32	619 899 C1	WASHER, flange retainer			
33	621 269 C1	COVER, equipment pump drive (Not part of "Converter Assembly")			
	24 861 R1	SCREW, hex-hd cap (2)			
	116 121	WASHER, lock (2)			
34	468 339 R1	RING, pump drive cover seal (Not part of "Converter Assembly")			
35	659 380 R1	RING, external snap (2)			
36	625 916 C1	RING, internal snap (2)			
37	619 955 C1	GEAR, accessory driven (2)			
38		SLEEVE, impeller wear (Order KIT, 625 879 C93)			

UNIVERSAL JOINT

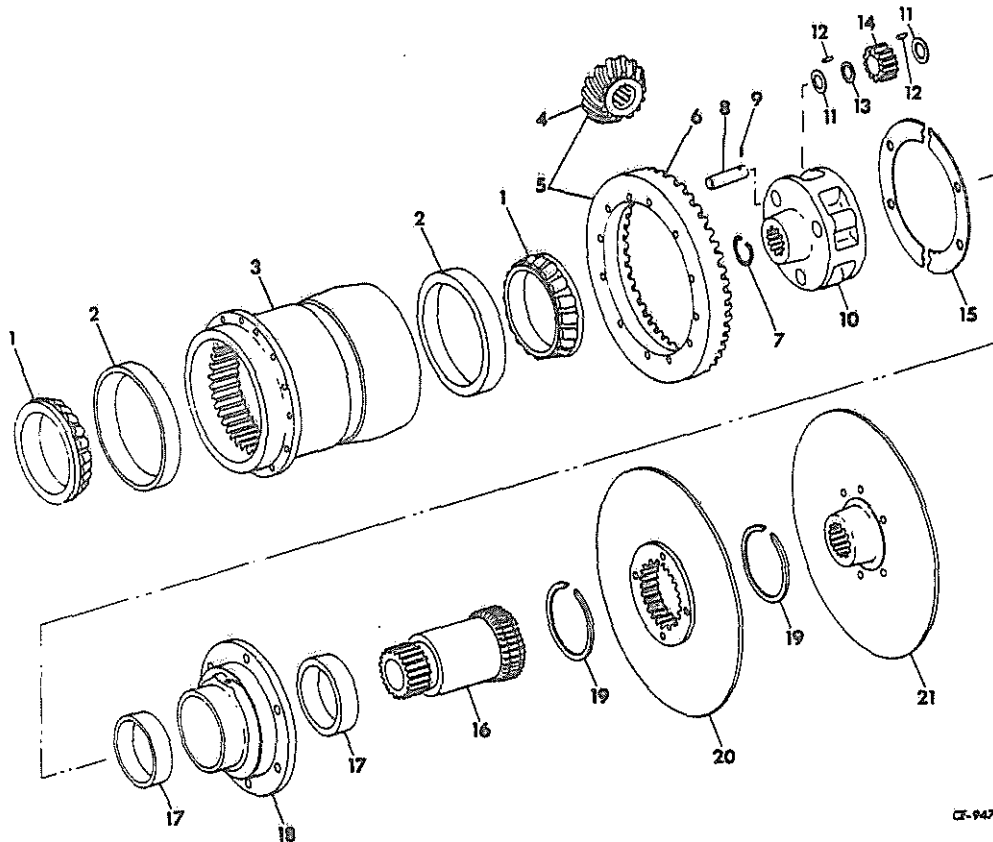


1	619 919 C92	"U" JOINT ASSY
	20 207 R1	SCREW, hex-soc-hd cap (4)
2	625 809 C2	YOKE, universal joint
3	627 879 C1	SPIDER w/BEARINGS
4	625 884 C1	SCREW, hex-soc-hd cap (4)
5	625 297 C1	PLATE, coupling
6	627 879 C1	SPIDER w/BEARING
7	20 208 R1	SCREW, hex-soc-hd cap (Replaces 111 587 H1) (4)
8	630 104 C1	FITTING, lube (2)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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PLANETARY AND STEERING DRIVE



CR-94751

1	ST 2094	CONE, bevel gear carrier roller bearing (2)	8	629 837 C2	SHAFT, planet gear (Order SHAFT 716 939 C1 and PIN 19 955 R1) (See NOTE at end of list) (6)
2	ST 983	CUP, bevel gear carrier roller bearing (2)	8	716 939 C1	SHAFT, planet gear (6)
3	621 059 C1 26 973 R1	CARRIER, bevel gear SCREW, bevel gear carrier (12)	9	20 258 R1	PIN, planet gear shaft roll (Used w/SHAFT, 629 837 C2) (6)
4	622 333 C1	GEAR, drive bevel pinion shaft (Also Listed With "Speed Clutch Pack and Related Parts")	9	19 955 R1	PIN, planet gear shaft (Used w/SHAFT, 716 939 C1) (6)
5	622 476 C91	PACKAGE, drive bevel gear and pinion shaft gear (Matched set) (Also Listed With "Speed Clutch Pack and Related Parts")	10	629 840 C2	CARRIER, planet gear (Order CARRIER, 716 938 C1, 3-SHAFT, 716 939 C1 and 3-PIN, 19 955 R1) (2)
6	621 054 C1	GEAR, drive bevel (Also Listed With "Speed Clutch Pack and Related Parts")	10	716 938 C1	CARRIER, planet gear (2)
7	194 298 R1	RING, snap (Replaces 654 093 C1) (2)	11	659 543 C1	WASHER, planet gear thrust (12)
			12	629 836 C91	PACKAGE, planet gear needle bearing service (Consists of twenty-four needle BEARINGS) (Two required to service one planet GEAR)
			13	629 838 C1	SPACER, planet gear needle bearing (6)

DRIVE TRAIN

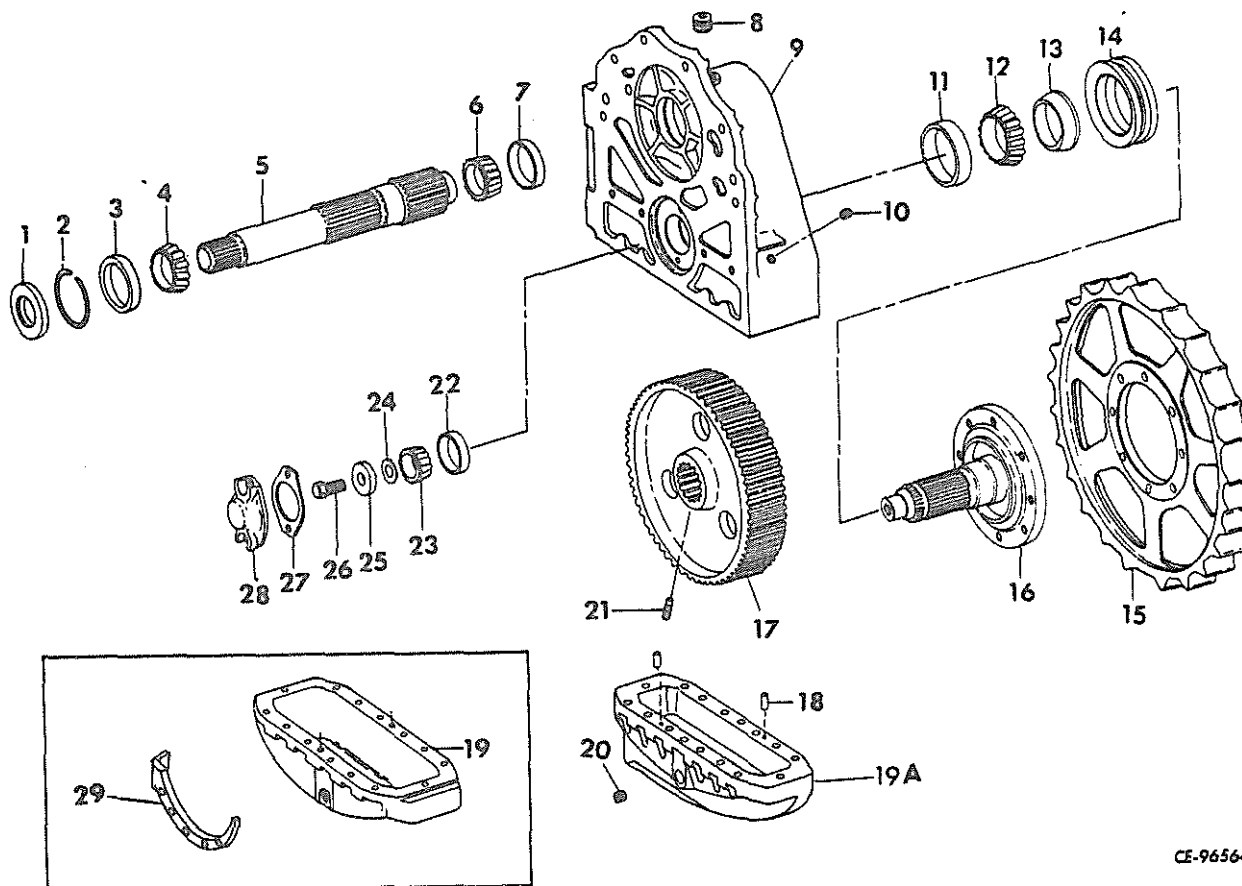
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
PLANETARY AND STEERING DRIVE - Continued					
14	629 839 C1	GEAR, planet (6)			
15		SHIM-half, bevel gear bearing carrier (.005") (Order PACKAGE, 622 781 C91) (12)			
15		SHIM-half, bevel gear bearing carrier (.020") (Order PACKAGE, 622 781 C91) (32)			
16	621 068 C2	GEAR, sun (2)			
17	621 066 C1	BUSHING, sun gear (4)			
18	621 064 C91	CAGE w/two BUSHING, 621 066 C1, bevel gear carrier bearing (2)			
	26 974 R1	SCREW, bevel gear cage (12)			
	25 545 R1	WASHER, flat hardened (12)			
19	621 069 C1	RING, sun gear retainer (4)			
20	621 070 C91	DISC, steering clutch (2)			
21	621 073 C91	DISC, steering brake (2)			
	622 781 C91	PACKAGE, bevel gear bearing carrier shim (Consists of six half-SHIM (.005"), eight half-SHIM (.007") and sixteen half-SHIM (.020")) (For servicing one bevel gear bearing carrier)			

NOTE- When ordering SHAFT 716 939 C1 only, increase the three holes in old CARRIER, 629 840 C2 to .250" DIA.

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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SPROCKET AND SPROCKET DRIVE



CE-96564 A

1	621 129 C92	SEAL, pinion shaft oil (2)	8	601 244 C1	PLUG, pipe (Used w/housing w/cored tapped hole) (2)
2	621 127 C1	RING, pinion shaft inner bearing snap (.109" thick) (2)	9	629 834 C91	HOUSING w/two PIN, 367 478 R1, CORK, 104 939 and PLUG, 270 835 R1, LH sprocket drive
2	621 128 C1	RING, pinion shaft inner bearing snap (Use as required in place of 621 127 C1) (.101" thick) (2)	9	629 835 C91	HOUSING w/two PIN, 367 478 R1, CORK, 104 939 and PLUG, 270 835 R1, RH sprocket drive
2	705 473 C1	RING, pinion shaft inner bearing snap (Use as required in place of 621 127 C1) (.117" thick) (2)		26 322 R1	SCREW, 2" long hex-hd cap (9)
3	13 396 DC	CONE, pinion shaft inner roller bearing (2)		25 680 R1	SCREW, 6" long hex-hd cap
4	13 390 D	CUP, pinion shaft inner roller bearing (2)		25 537 R1	WASHER, flat
5	621 125 C2	SHAFT, sprocket drive pinion (2)		104 939	CORK # 4 (2)
6	ST 954	CUP, pinion shaft outer roller bearing (2)	10	270 835 R1	PLUG, sq-soc filler pipe (2)
7	ST 2005A	CONE, pinion shaft outer roller bearing (2)	11	622 337 C1	CUP, sprocket shaft outer roller bearing (2)
			12	622 336 C1	CONE, sprocket shaft outer roller bearing (2)
			13	622 566 C3	SPACER, sprocket shaft outer bearing locating (2)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
SPROCKET AND SPROCKET DRIVE - Continued			29	654 432 C1	GUARD, LH sprocket drive (Part of Attachment, 632 730 C91 and 628 080 C91) (Used w/COVER, 705 326 C1)
14	716 720 C91	SEAL w/Two wipers and Installation Instructions, sprocket carrier (2)		24 862 R1	SCREW, hex-hd cap (5)
14	655 473 C91	KIT, belleville washer service (Consists of two Washer, two Wiper and Installation Instructions)(x)		116 121	WASHER, lock (5)
15	621 136 C1	SPROCKET (2)	29	654 433 C1	GUARD, RH sprocket drive (Part of Attachment, 632 730 C91 and 628 080 C91) (Used w/COVER, 705 327 C1)
	25 356 R1	SCREW, hex-hd cap (24)		24 862 R1	SCREW, hex-hd cap (5)
	25 538 R1	WASHER, flat (24)		116 121	WASHER, lock (5)
16	622 244 C2	SHAFT, sprocket carrier (2)	29	658 120 C1	GUARD, LH sprocket drive (Part of Attachment, 632 732 C91 & 628 081 C91) (Used w/COVER, 705 326 C1)
17	621 116 C2	GEAR, sprocket drive (2)		24 862 R1	SCREW, 1-1/2" long hex-hd cap (2)
18	367 478 R1	PIN, dowel (4)		24 865 R1	SCREW, 2-1/4" long hex-hd cap (3)
19	705 326 C1	COVER, LH sprocket drive housing (Part of ATTACHMENT, 632 730 C91 and 632 732 C91) (Order COVER, 716 900 C1)		116 121	WASHER, lock (5)
19	705 327 C1	COVER, RH sprocket drive housing (Part of ATTACHMENT, 632 730 C91 and 632 732 C91) (Order COVER, 716 901 C1)	29	658 121 C1	GUARD, RH sprocket drive (Part of Attachment, 632 732 C91 & 628 081 C91) (Used w/COVER, 705 327 C1)
	24 862 R1	BOLT (14)		24 862 R1	SCREW, 1-1/2" long hex-hd cap (2)
	116 121	WASHER (14)		24 865 R1	SCREW, 2-1/4" long hex-hd cap (3)
19A	716 900 C1	COVER, LH sprocket drive housing		116 121	WASHER, 1/2" lock (5)
19A	716 901 C1	COVER, LH sprocket drive housing	628 080 C91	628 080 C91	ATTACHMENT, sprocket drive guard (For use w/14 max. track shoes) (See NOTE 3)
	24 862 R1	BOLT (14)			(Consists of -
	116 121	WASHER (14)			1 GUARD 654 432 C1
20	270 835 R1	PLUG, housing drain (2)			1 GUARD 654 433 C1)
21	621 110 C2	SCREW, sprocket drive gear retaining (2)	628 081 C91	628 081 C91	ATTACHMENT, sprocket drive guard (For use w/15" minimum track shoes)(See NOTE 1)
	454 522 R1	NUT, lock (2)			(Consists of -
22	622 224 C1	CUP, sprocket shaft inner roller bearing (2)			1 GUARD 658 120 C1
					1 GUARD 658 121 C1)
23	622 204 C91	CONE, sprocket shaft inner roller bearing (2)	622 782 C92	622 782 C92	PACKAGE, sprocket carrier shaft shim (Consists of four SHIM (.005"), four SHIM (.007") and six SHIM (.020")(For servicing one sprocket carrier shaft)
24		SHIM, sprocket carrier shaft (.005") (Order PACKAGE, 622 782 C92) (8)			
24		SHIM, sprocket carrier shaft (.007") (Order PACKAGE, 622 782 C92) (8)	632 730 C91	632 730 C91	ATTACHMENT, sprocket drive cover (For use w/14" maximum track shoes) (See NOTE 3)
24		SHIM, sprocket carrier shaft (.020") (Order PACKAGE, 622 782 C92) (8)			(Consists of -
25	621 102 C1	WASHER, sprocket carrier shaft retainer (2)			24 BOLT 24 862 R1
					1 COVER 705 326 C1
					1 COVER 705 327 C1
					1 GUARD 654 432 C1
26	20 672 R1	SCREW, hex-hd cap (2)			1 GUARD 654 433 C1
					24 WASHER 116 121)
27	621 103 C1	GASKET, sprocket carrier shaft cover (2)			
28	621 104 C1	COVER, sprocket carrier shaft (2)			
	70 427 R1	SCREW, hex-hd cap (4)			
	115 314	WASHER, lock (4)			

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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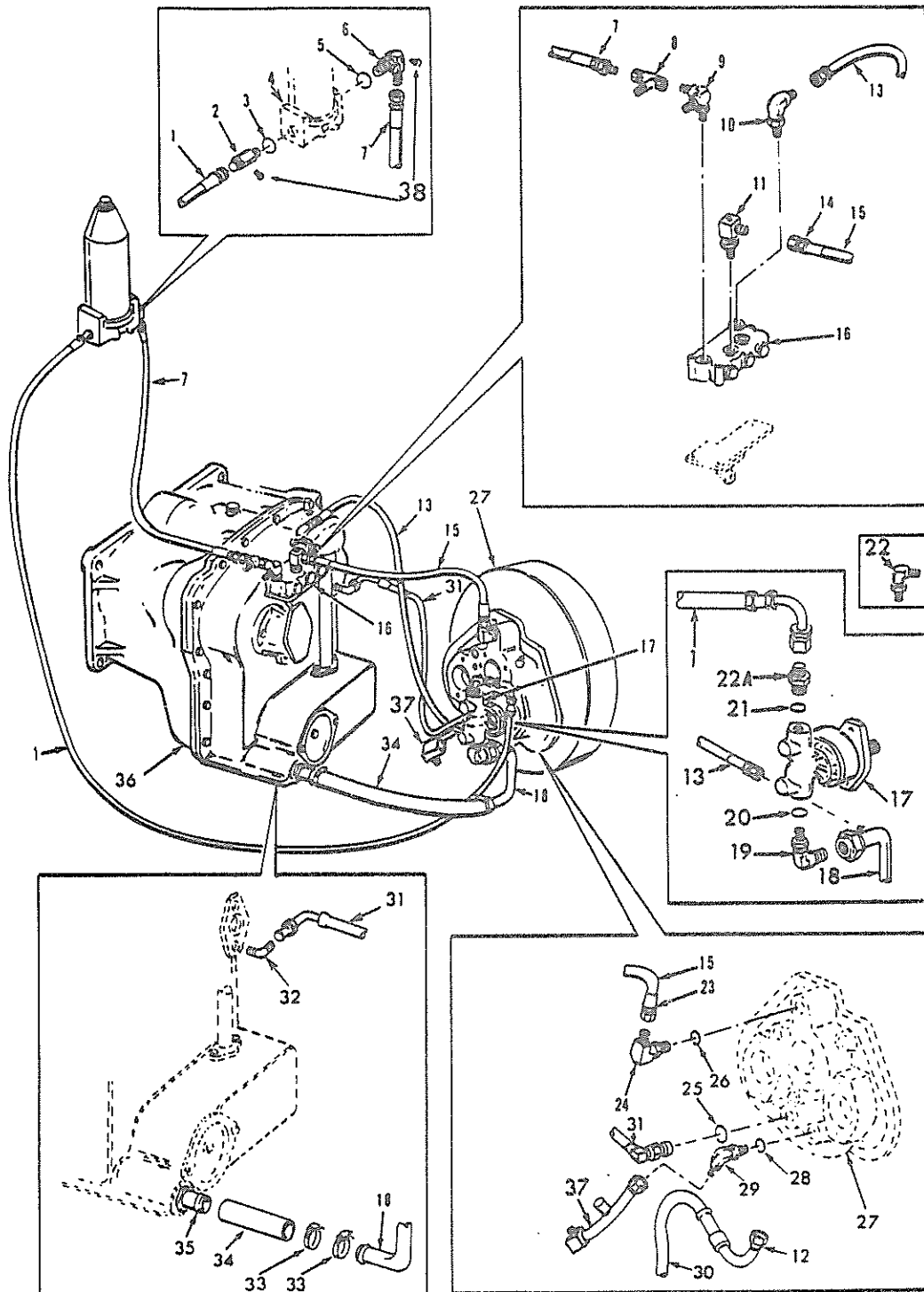
SPROCKET AND SPROCKET DRIVE - Continued

632	732	C91			ATTACHMENT, sprocket drive cover (For use w/15" minimum track shoes) (See NOTE 3) (Consists of -
					24 BOLT 24 862 R1
					1 COVER 705 326 C1
					1 COVER 705 327 C1
					1 GUARD 658 120 C1
					1 GUARD 658 121 C1
					24 WASHER 116 121)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION AND TORQUE CONVERTER PIPING



CE105848 C

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION AND TORQUE CONVERTER PIPING - Continued			16		VALVE, regulator (Refer to "Regulator Valve")
1	656 558 C2	HOSE w/FITTINGS, pump to pressure filter (HOSE, 1" ID x 74" long including FITTINGS) (Order HOSE, 662 217 C1, CONNECTOR, 9 410 207 and DRAWING, IZG 9737)	17		PUMP, transmission hydraulic (Refer to "Transmission Hydraulic Pump")
1	662 217 C1	HOSE w/FITTINGS, pump to pressure filter (HOSE 1" ID x 64" long including FITTINGS)	18	656 533 C1	TUBE, sump outlet to pump inlet
2	9 410 207	CONNECTOR, pressure filter inlet (Order CONNECTOR, 715 886 C1 together w/PLUG 444 614)	19	9 410 982	ELBOW, transmission pump inlet
2	715 886 C1	CONNECTOR, pressure filter inlet (Together w/PLUG, 444 614 will work for CONNECTOR, 9 410 207)	20	307 915 R1	"O" RING, pump inlet elbow sealing
3	296 247 R1	"O" RING, filter inlet connector sealing	21	296 247 R1	"O" RING, pump outlet connector sealing
4		FILTER, transmission pressure (Mounted inside battery box) (Refer to "Transmission Pressure Filter")	22	9 410 981	ELBOW, transmission pump outlet (Used w/HOSE, 656 558 C2)
5	296 247 R1	"O" RING, filter outlet elbow sealing	22A	9 410 207	CONNECTOR, pressure filter outlet (Used w/HOSE, 662 217 C1)
6	150 776 C91	ELBOW, pressure filter outlet (Order ELBOW, 715 885 C1 together w/PLUG 444 614)	23		FITTING, swivel (Order HOSE ASSY, 656 555 C1)
6	715 885 C1	ELBOW, pressure filter outlet (Together w/PLUG, 444 614, will work for ELBOW, 150 776 C91)	24	9 410 979	ELBOW, converter "In"
7	656 556 C1	HOSE, w/FITTINGS, filter outlet elbow to tee on regulator main tee (HOSE, 3/4" ID x 44" long including FITTINGS)	25	368 269 R1	"O" RING, scavenging elbow sealing
8	9 410 335	TEE, filter return on main regulator tee	26	368 269 R1	"O" RING, converter "In" elbow sealing
9		TEE, regulator valve inlet (Refer to "Transmission Piping")	27		TORQUE CONVERTER (Refer to "Torque Converter")
10		ELBOW, regulator valve "out" port (Refer to "Transmission Piping")	28	368 269 R1	"O" RING, converter "Out" elbow sealing
11		ELBOW, regulator valve "A" port (Outlet to torque converter) (Refer to "Transmission Piping")	29	9 410 979	ELBOW, converter "Out"
12		FITTING, 90° swivel (Order HOSE ASSY, 606 433 C91)	30	606 433 C91	HOSE w/FITTINGS, torque converter to oil cooler tee (HOSE 5/8" ID x 32" long including FITTINGS)
13	717 242 C1	HOSE w/two FITTINGS, regulator out port to torque converter pump suction tube (HOSE, 3/4" ID x 29" long including FITTINGS)	31	705 017 C1	HOSE w/FITTINGS, torque converter scavenging elbow to transmission drain inlet (HOSE, 5/8" ID x 17" long w/FITTINGS)
14		FITTING, 90° swivel (Order HOSE ASSY, 656 555 C1)	32		ELBOW, transmission cover drain inlet for torque converter scavenge (Refer to "Transmission Piping")
15	656 555 C1	HOSE w/FITTINGS, regulator "A" port to torque converter "In" (HOSE, 5/8" ID x 10" long, including FITTINGS)	33	690 062 C1	CLAMP, coupling hose (Replaces 338 703 R91) (2)
			34	614 138 C3	HOSE, suction tube coupling (1-1/4" ID x 4" long)
			35		CONNECTOR, sump outlet (Refer to "Transmission Piping")
			36		TRANSMISSION (Refer to "Transmission")
			37	713 371 C1	TUBE, torque converter outlet elbow 6178 and up

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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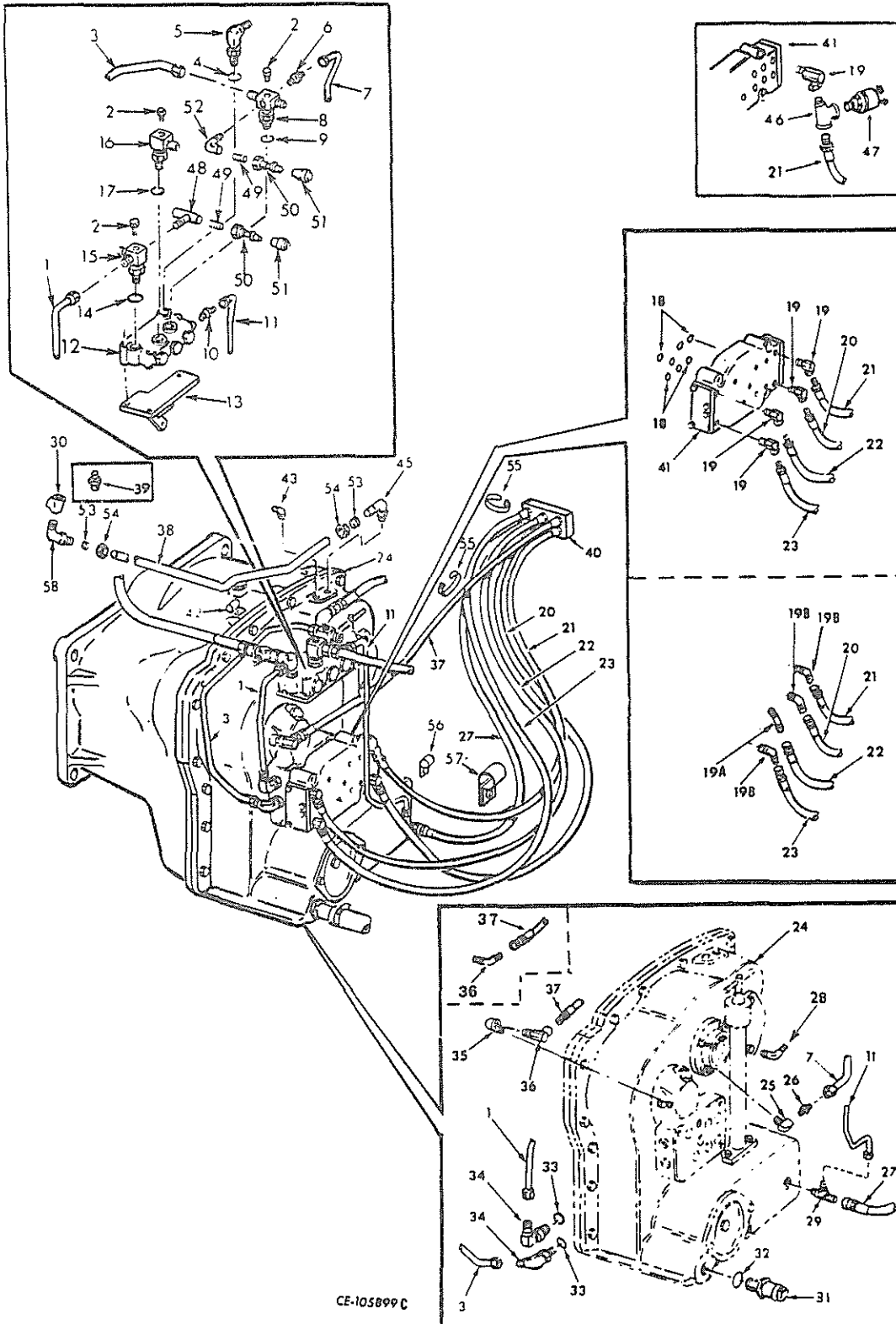
TRANSMISSION AND TORQUE CONVERTER PIPING -
Continued

38	444 614	PLUG, pressure filter inlet and outlet pipe (Not used w/Transmission pressure filter indicator ATTACHMENTS)(2)			
	308 872 R1	CLAMP, torque converter pump to pressure filter hose (On front frame) (Used w/HOSE 656 558 C2)			
	25 657 R1	SCREW, hex-hd cap			
	116 121	WASHER, lock			
	327 273 R91	SPRAP, pressure filter inlet and outlet hose support (3)			
	308 872 R1	CLAMP, pump to pressure filter hose (On RH plate of front frame) (Used w/HOSE 656 558 C2)			
	24 839 R1	BOLT			
	25 544 R1	WASHER, hardened			
	120 382	WASHER, lock			

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION PIPING



CE-105899C

(Rev. No. 1)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION PIPING - Continued			20	656 580 C1	HOSE w/two male FITTINGS, pilot control valve to range selector valve (#2) (Order HOSE, 657 368 C2 and ELBOW, 9 402 862)
1	656 540 C1	TUBE, regulator main port to manifold pressure port			
2	444 613	PLUG, NPTF test ports (3)	20	657 368 C2	HOSE w/male and female FITTINGS, pilot control valve to range selector valve (#2) (3/16" ID x 48" long including FITTINGS)
3	656 539 C1	TUBE, regulator valve port to manifold "L" port			
4	364 885 R1	"O" RING, elbow sealing			
5	9 410 979	ELBOW, regulator valve "out" port	21	656 580 C1	HOSE w/two male FITTINGS, pilot control valve to range selector valve (R) (Order HOSE, 657 368 C2 and ELBOW, 9 402 862)
6	9 402 706	CONNECTOR, regulator valve lube port tee			
7	656 538 C1	TUBE, regulator valve lube port to input shaft support on transmission	21	657 368 C2	HOSE w/male and female FITTINGS, pilot control valve to range selector valve (R) (3/16" ID x 48" long including FITTINGS)
8	658 571 C1	TEE, regulator valve lube port (Order TEE, 658 571 C2 and PLUG, 444 613 5043 and below	22	656 579 C1	HOSE w/two male FITTINGS, pilot control valve to range selector valve (N) (Order HOSE, 715 756 C1 and ELBOW, 9 402 823)
8	658 571 C2	TEE, regulator valve lube port (With PLUG, 444 613, will work for TEE, 658 571 C1) 5044 and up	22	715 756 C1	HOSE w/male and female FITTINGS, pilot control valve to range selector valve (N) (3/16" ID x 57" long including FITTINGS)
9	364 885 R1	"O" RING, tee sealing			
10	9 402 708	CONNECTOR, regulator valve spool drain port	23	656 579 C1	HOSE w/two male FITTINGS, pilot control valve to range selector valve (#3) (Order HOSE, 733 373 C1 and ELBOW, 9 402 862)
11	656 536 C1	TUBE, regulator valve spool drain to transmission drain			
12		VALVE, regulator (Refer to "Regulator Valve")	23	733 373 C1	HOSE w/male and female FITTINGS, pilot control valve to range selector valve (#3) (3/16" ID x 55" long including FITTINGS)
13	622 299 C1 25 524 R1 115 314	SUPPORT, regulator valve NUT (2) WASHER, lock (2)	24		TRANSMISSION (Refer to "Transmission")
14	368 269 R1	"O" RING, tee sealing	25	9 409 931	ELBOW, transmission input shaft support (In elbow)
15	656 529 C1	TEE, regulator valve inlet (Main port)	26	9 402 706	CONNECTOR, transmission input shaft support (In elbow)
16	656 528 C1	ELBOW, regulator valve "A" port (Outlet to torque converter)			
17	368 269 R1	"O" RING, elbow sealing	27	733 375 C1	HOSE w/FITTINGS, pilot control valve to drain (D) (HOSE, 5/16" ID x 42" long including FITTINGS) (Replaces 347 266 R1)
18	350 667 R1	"O" RING, selector valve sealing (7)	28	9 402 866	ELBOW, transmission cover drain inlet for torque converter scavenge
19	307 989 R91	ELBOW, 90° swivel (Used w/HOSE, 656 579 C1 (Port #3 and N) and 656 580 C1 (Port #2 and R) (4)	29	9 403 098	TEE, transmission drain port (For regulator spool and pilot valve)
19A	9 402 823	ELBOW, 45° (Used w/HOSE, 715 756 C1 (Port N))			
19B	9 402 862	ELBOW, 90° (Used w/HOSE, 657 368 C2 (Port #2 and R) and 733 373 C1 (Port #3) (3)	30		TEE, vent (Refer to "Rear Main Frame")

(Rev. No. 1)

DRIVE TRAIN

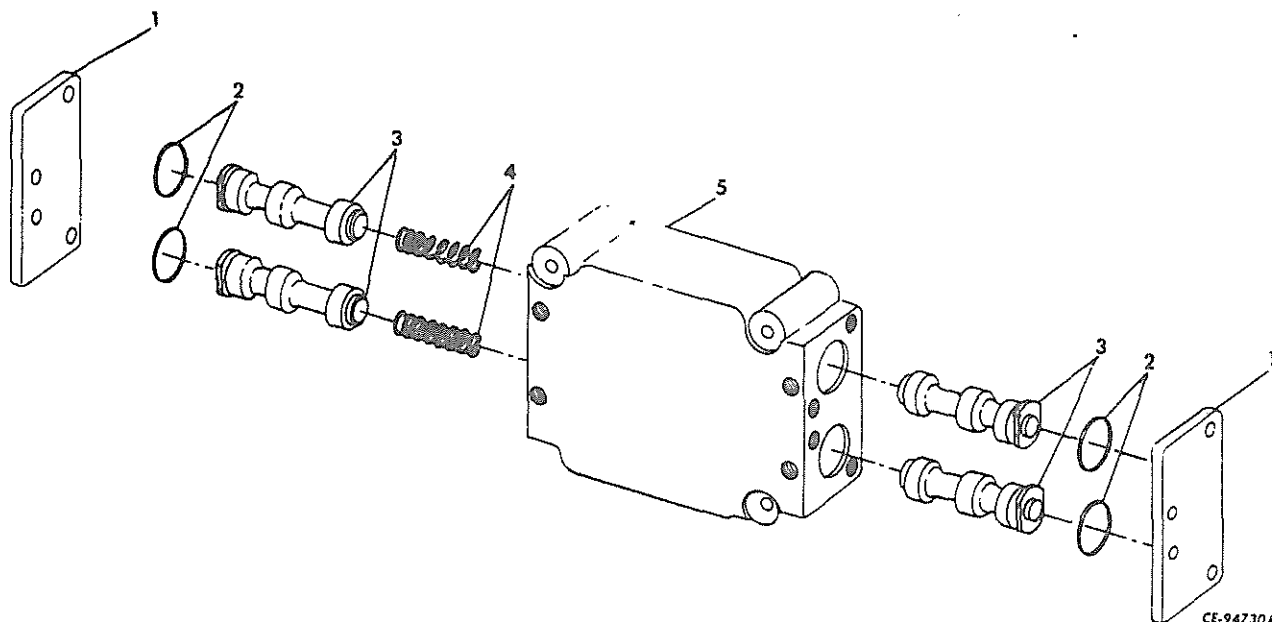
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION PIPING - Continued					
31	325 327 R91	CONNECTOR, sump outlet	43	9 402 866	ELBOW, 90° steering valve drain (In transmission cover)
32	307 915 R1	"O" RING, sump outlet connector sealing	44		NOT USED
33	364 885 R1	"O" RING, elbow sealing (2)	45	606 845 C1	ELBOW, transmission vent (2)
34	9 410 978	ELBOW, manifold pressure and lube port (2)	46		TEE, pressure switch (Refer to Back-up Alarm)
35	580 257 R1	ELBOW, 60° manifold side port for pilot valve pressure	47		SWITCH, pressure (Refer to Back-up Alarm)
36	307 989 R91	ELBOW, 90° swivel (Used w/HOSE, 656 579 C1 (Port M))	48	9 409 942	TEE, pipe 5044 and up
36	9 402 862	ELBOW, 90° (Used w/HOSE, 733 373 C1 (Port M))	49		NIPPLE, pipe (Not Furnished Separately (5044 and up) (2)
37	656 579 C1	HOSE w/two male FITTINGS, pilot control valve to manifold (M) (Order HOSE, 733 373 C1 and ELBOW, 9 402 862)	50	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1) (2) 5044 and up
37	733 373 C1	HOSE w/male and female FITTINGS, pilot control valve to manifold (M) (3/16" ID x 55" long including FITTINGS)	50	715 370 C1	PLUG, quick connective (2) 5044 and up
38	666 369 C92	TUBE, transmission vent (Order TUBE, 710 894 C91 together with one ELBOW, 606 845 C1)	51	715 477 C1	COVER, protective (Replaces 666 101 C1) (2) 5044 and up
38	710 894 C91	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1 (Together w/ELBOW, 606 845 C1 will work for TUBE, 666 369 C92)	52	454 108	ELBOW 5044 and up
39	606 819 C1	CONNECTOR, tube (Used w/TUBE, 666 369 C92)	53	265 204 R1	SLEEVE, transmission vent tube (2)
40	622 313 C1	MANIFOLD, transmission selector	54	265 205 R1	NUT, transmission vent tube (2)
41		VALVE, range selector (Refer to "Range Selector Valve")	55	327 273 R91	STRAP (2)
42	709 154 C1	CLAMP, vent tube (On transmission cover bolt)	56	311 500 R1	CLAMP, main pilot valve hose
			57	317 262 R1	CLAMP, range selector hoses M, N, 3, R and 2
			58	606 845 C1	ELBOW, transmission vent tube (Used with TUBE, 710 894 C91)
			444 613		PLUG (Used with TEE 658 571 C1) 5043 and below

(Rev. No. 1)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RANGE SELECTOR VALVE

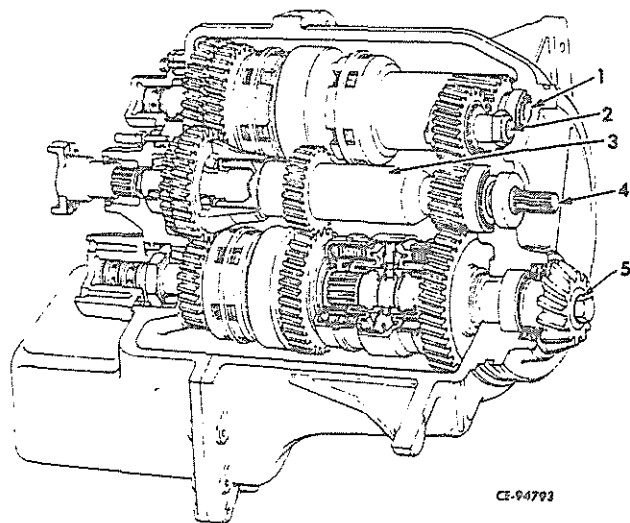


	622 307 C94	VALVE ASSY, range selector	444 688	PLUG, pipe (Pressure pick-up ports) (7)
	24 621 R1	SCREW, hex-hd cap (3)		
	115 093	WASHER, lock (3)		
		(Composed of -		
1	622 311 C1	PLATE, end (2)		
	25 492 R1	SCREW, hex-hd cap (8)		
	116 120	WASHER, lock (8)		
2	372 821 R1	"O" RING, valve sealing (4)		
3		SPOOL, valve (Not Furnished Separately) (4)		
4	622 310 C3	SPRING, spool (2)		
5		HOUSING, valve (Not Furnished Separately)		

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION



CE-94793

622 334 C92 TRANSMISSION ASSY, (Composed of all parts listed on the following pages under "TRANSMISSION," except "TRANSMISSION CONTROLS")

24 842 R1 SCREW, 3/8" dia. hex-hd cap (2)

24 889 R1 SCREW, 3/4" dia. hex-hd cap (4)

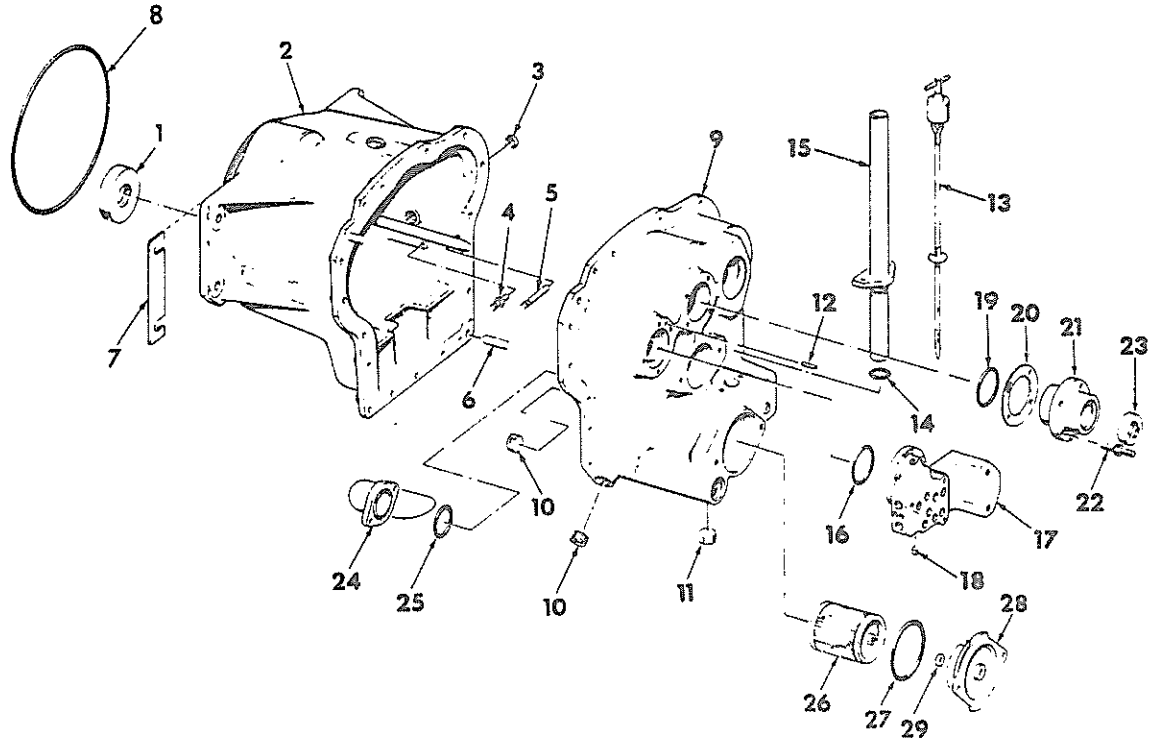
115 093 WASHER, lock (2)

- | | |
|---|---|
| 1 | CLUTCH PACK, direction (Refer to "Direction Clutch Pack") |
| 2 | SHAFT, reverse idler (Refer to "Reverse Idler Shaft") |
| 3 | COUNTERSHAFT (Refer to "Countershaft") |
| 4 | SHAFT, input (Refer to "Input Shaft") |
| 5 | CLUTCH PACK, speed (Refer to "Speed Clutch Pack") |

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION
TRANSMISSION CASE, COVER, OIL STRAINER AND
RELATED PARTS



CE-105846

1	627 875 C92	SEAL, countershaft rear oil	9	632 264 C91	COVER w/DOWEL, 20 040 R1 and two PLUG, 444 709 transmission
2	622 386 C91	CASE w/two PIN, 19 904 R1, PIN, 621 163 C1, PIN, 621 231 C1 and PLUG, 318 300 R1, transmission		24 850 R1	SCREW, hex-hd cap (18)
3	318 300 R1	PLUG, cup		115 314	WASHER, lock (18)
4	621 163 C1	PIN, pivot	10	444 709	PLUG, core support (2)
5	621 231 C1	PIN, spring anchor	11	270 835 R1	PLUG, transmission sump drain
6	19 904 R1	PIN, dowel case	12	20 040 R1	DOWEL, cover
7		SHIM, transmission case mounting (.002") (Order PACKAGE, 622 783 C91) (4)	13	622 145 C1	GAUGE, transmission oil level
7		SHIM, transmission case mounting (.007") (Order PACKAGE, 622 783 C91) (4)	14	372 821 R1	"O" RING, filler tube sealing (Used w/TUBE 621 283 C2)
7		SHIM, transmission case mounting (.020") (Order PACKAGE, 622 783 C91) (8)		OR	
8	22 405 R1	"O" RING, transmission case pilot sealing (Not part of "Transmission Assembly")	14	257 611 R1	"O" RING filler tube sealing (Used w/TUBE 716 829 C1)
			15	621 283 C2	TUBE, oil filler (Used w/RING, 372 821 R1)
				OR	
			15	716 829 C1	TUBE, oil filler (Used w/RING, 257 611 R1)
				24 840 R1	BOLT (2)
				115 093	WASHER, lock (2)
				25 534 R1	WASHER, flat (2)
			16	610 411 C1	"O" RING, manifold sealing

(Rev. No. 11)

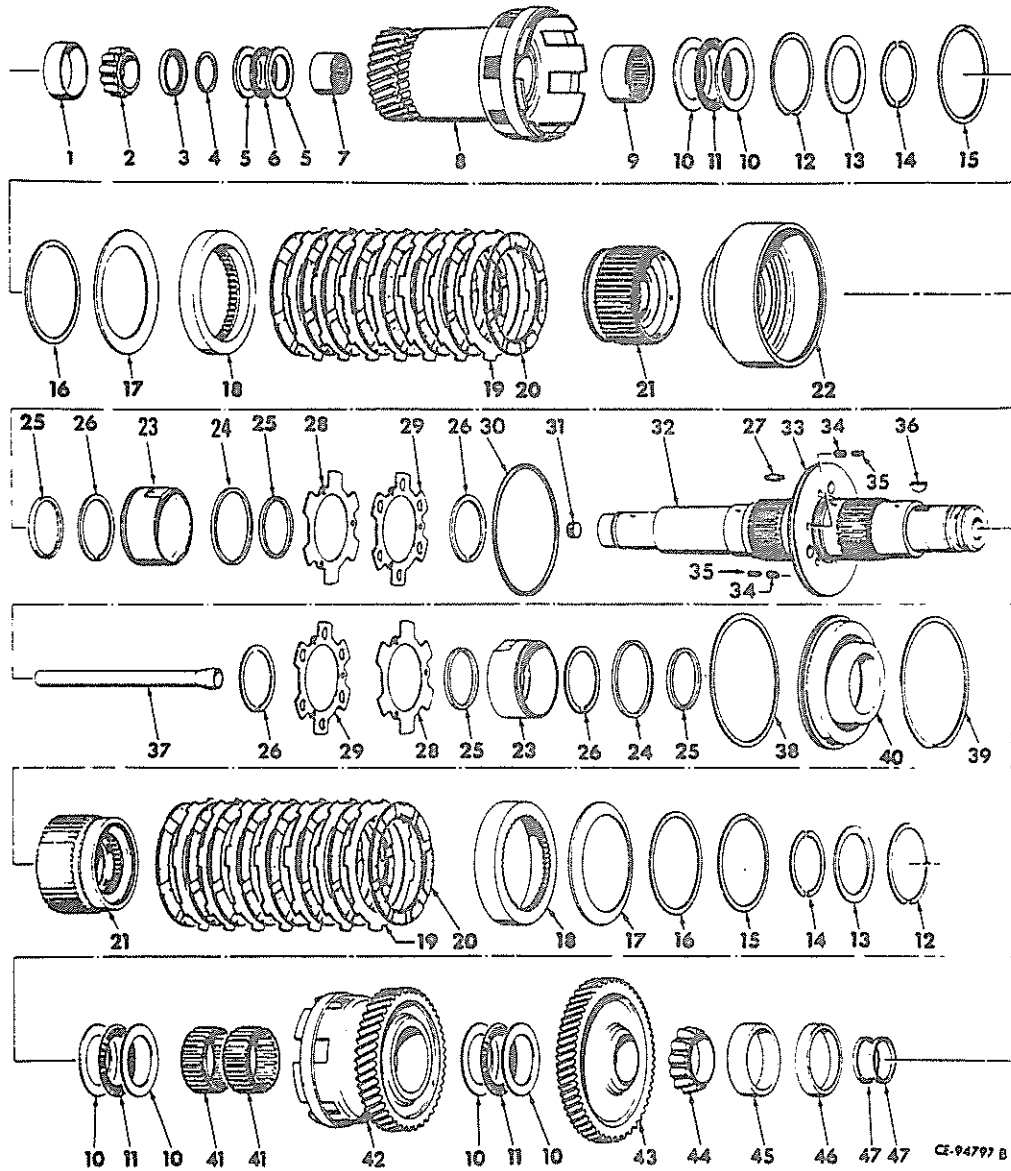
DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION TRANSMISSION CASE, COVER, OIL STRAINER AND RELATED PARTS - Continued			628 028 C92	PACKAGE, transmission sealing ring (Consists of -	
17	622 295 C91	MANIFOLD w/PLUG, 444 613, five PLUG, 444 692, and seven PLUG, 444 619, transmission clutch shaft	1	GASKET	25 352 D
	444 613	PLUG, 1/8" pipe	1	KIT	625 877 C91
	444 692	PLUG, 1/4" pipe (5)	1	KIT	625 878 C91
	70 427 R1	SCREW, 1-1/4" long hex-hd cap (4)	1	"O" RING	22 405 R1
	622 721 C1	SCREW, 2" long hex-hd cap	1	"O" RING	285 253 R1
	115 314	WASHER, lock (5)	1	"O" RING	355 967 R1
18	444 691	PLUG, pipe (12)	1	"O" RING	364 108 R1
19	610 411 C1	"O" RING, input shaft support seal	1	"O" RING	372 821 R1
20		SHIM, input shaft support (.005") (Order PACKAGE, 622 784 C91) (4)	1	"O" RING	610 411 C1
20		SHIM, input shaft support (.007") (Order PACKAGE, 622 784 C91) (4)	1	RING	257 611 R1
20		SHIM, input shaft support (.020") (Order PACKAGE, 622 784 C91) (6)	1	RING	622 302 C1
21	622 281 C1	SUPPORT, input shaft	1	SEAL	627 875 C91
	70 427 R1	SCREW, hex-hd cap (2)	1	SEAL	622 300 C92
	115 314	WASHER, lock (4)	1	SEAL	622 301 C1)
22	622 324 C1	STUD, support mounting (2)			
23	622 301 C91	SEAL, input shaft front oil			
24	621 234 C1	ELBOW, suction			
	24 840 R1	SCREW, hex-hd cap (2)			
	115 093	WASHER, lock (2)			
25	364 108 R1	"O" RING, elbow sealing			
26	622 255 C1	STRAINER, oil			
27	285 253 R1	"O" RING, strainer cover sealing			
28	628 359 C1	COVER, oil strainer			
	140 483 H	SCREW, hex-hd cap (2)			
	115 093	WASHER, lock (2)			
29	32 347 D	SPACER, strainer mounting bolt			
	622 784 C91	PACKAGE, input shaft support shim (Consists of four SHIM (.005"), four SHIM (.007") and six SHIM (.020") (For servicing input shaft support)			
	622 783 C91	PACKAGE, transmission case mount- ing shim (Consists of four SHIM (.002"), four SHIM (.007") and eight SHIM (.020")) (Not part of "Trans- mission Assembly")			

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION DIRECTION CLUTCH PACK



	619 856 C93	PACK ASSY, directional clutch pack (Composed of -		4	625 236 C1	RING, snap (External) (Also Part of KIT, 625 878 C91)	
1	459 456 R91	CC-NE, direction clutch shaft rear bearing (Not part of PACK ASSY, 619 856 C93)		5	625 261 C1	WASHER, thrust (2)	
	2	642 954 R1	CUP, direction clutch shaft rear bearing (Not part of PACK ASSY, 619 856 C93)		6	371 226 R91	BEARING, thrust
	7	625 256 C91	BEARING, roller		8	625 237 C91	BEARING and DRUM w/BEARING, 625 256 C91 and BEARING, 676 871 R91
	3	622 613 C1	RETAINER, reverse gear snap ring (Not part of PACK ASSY, 619 856 C93)		9	676 871 R91	BEARING, roller

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION DIRECTION CLUTCH PACK Continued			33	625 201 C2	PLATE, separator
10	625 260 C1	WASHER, thrust (6)	34	625 206 C1	SPRING, outer compression (Also Part of KIT, 625 878 C91) (6)
11	625 257 C91	BEARING, thrust (3)	35	625 821 C1	SPRING, inner compression (Also Part of KIT, 625 878 C91) (6)
12	324 232 R1	RING, snap (Internal) (2)	36	124 551 KEY	
13	627 420 C1	SPACER, clutch (2)	37		TUBE (Not Furnished Separately)
14	627 419 C1	RING, retainer split (4)	38	324 226 R1	"O" RING, (Lathe cut) (Also Part of KIT, 625 878 C91)
15	333 857 R2	RING, snap (External) (2)	39	347 297 R1	RING, snap (Internal)
16	675 670 R1	RETAINER, snap ring (2)	40	627 687 C2	PISTON, clutch
17	675 669 R1	WASHER, spring (2)	41	625 220 C91	BEARING, roller (2)
18	625 235 C1	PLATE, clutch backing (2)	42	625 238 C1	GEAR and DRUM
19	324 241 R1	PLATE, external splined (18)	43	622 288 C1	GEAR, input driver
20	675 667 R1	PLATE, internal splined (20)	44	663 557 R91	CONE, direction clutch shaft front bearing (Not part of PACK ASSY, 619 856 C93)
21	627 417 C91	HUB ASSY, clutch final (2) (Composed of - \$ 1 HUB 9 PLATE 324 241 R1 1 PLATE 625 235 C2 10 PLATE 675 667 R1 1 RETAINER 675 670 R1 1 RING 333 857 R2 1 WASHER 675 669 R1)	45	663 558 R1	CUP, direction clutch shaft front bearing (Not part of PACK ASSY, 619 856 C93)
22	627 690 C2	HOUSING, piston	46	628 282 C1	SPACER, direction shaft front bearing adjust (.274 to .275" thick) (Not part of PACK ASSY, 619 856 C93)
23	627 689 C2	PISTON, accelerating	46	628 283 C1	SPACER, direction shaft front bearing adjust (.277 to .278" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)
24	200 168 H1	RING, seal (Also Part of KIT, 625 878 C91) (2)	46	628 284 C1	SPACER, direction shaft front bearing adjust (.280 to .281" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)
25	625 946 C2	RING, step joint seal (Also Part of KIT, 625 878 C91) (4)	46	628 285 C1	SPACER, direction shaft front bearing adjust (.283 to .284" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)
26	200 167 H1	RING, snap (External) (Also Part of KIT, 625 878 C91) (4)	46	628 286 C1	SPACER, direction shaft front bearing adjust (.286 to .287" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)
27	627 666 C2	PIN, dowel (3)	46	628 287 C1	SPACER, direction shaft front bearing adjust (.289 to .290" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)
28	610 751 C1	DISC, valve clutch (2)			
29	625 205 C1	DISC, reinforcing clutch (2)			
30	324 227 R1	"O" RING (Also Part of KIT, 625 878 C91)			
31	625 262 C1	PLUG, pipe			
32	625 230 C91	SHAFT ASSY, direction clutch (Composed of - 3 PIN 17 164 R1 1 PLATE 625 201 C2 1 PLUG 625 262 C1 2 RING 200 167 H1 \$ 1 SHAFT \$ 1 TUBE 17 164 R1 PIN, roll (3)	46	628 287 C1	SPACER, direction shaft front bearing adjust (.289 to .290" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION DIRECTION CLUTCH PACK - Continued					
46	628 288 C1	SPACER, direction shaft front bearing adjust (.292 to .293" thick) (Use one tube as required in place of 622 289 C1) (Not part of PACK ASSY, 619 856 C93)			
47	621 210 C2	RING, direction shaft front sealing (Not part of PACK ASSY, 619 856 C93) (2)			

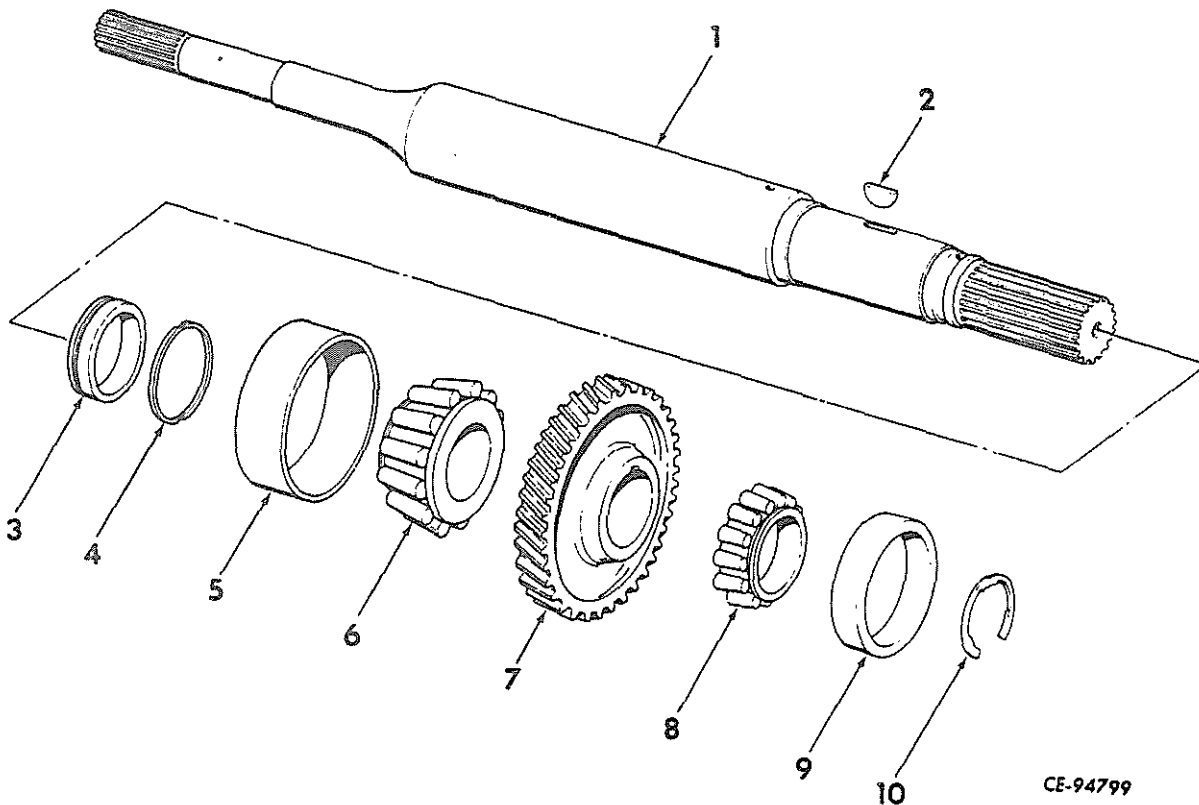
DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**TRANSMISSION
DIRECTION CLUTCH PACK**
Continued

625 878 C91	KIT, seal and spring (Consists of -	
	1 "O" RING	324 226 R1
	1 "O" RING	324 227 R1
	2 RING	200 167 H1
	2 RING	200 168 H1
	1 RING	625 236 C1
	4 RING	625 946 C2
	6 SPRING	625 206 C1
	6 SPRING	625 821 C1)

**TRANSMISSION
INPUT SHAFT**

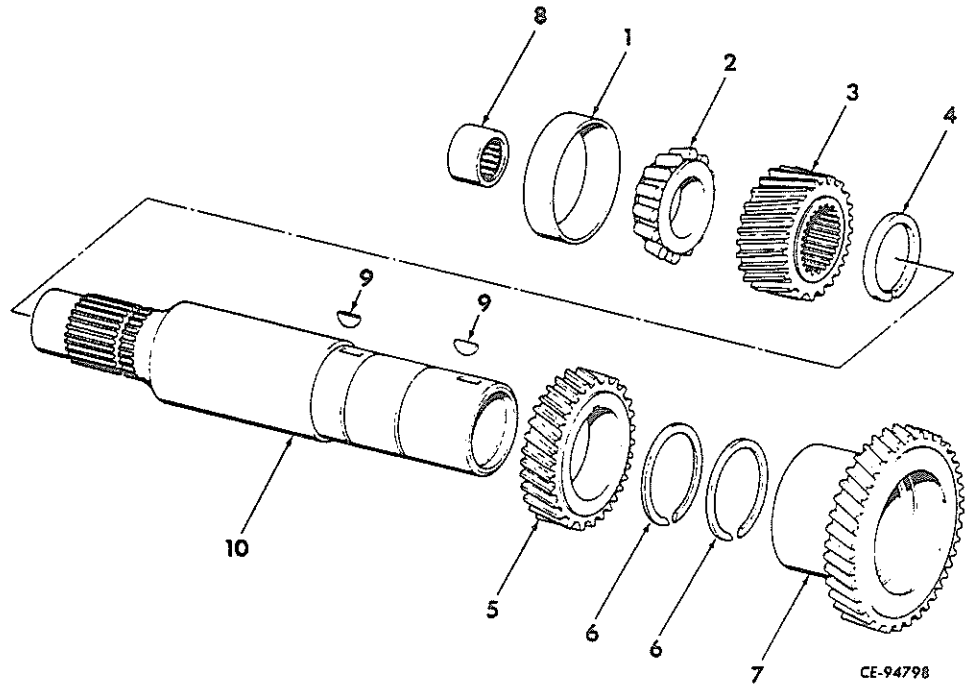


1	622 273 C91	SHAFT, w/CARRIER, 622 275 C1, input	6	290 808 R91	CONE, countershaft front bearing
2	218 211	KEY, input drive gear	7	622 280 C1	GEAR, input drive
3	622 275 C1	CARRIER, seal ring	8	ST 973	CUP, input shaft front bearing
4	622 302 C1	RING, lubrication seal	9	ST 2053	CONE, input shaft front bearing
5	61 336 R1	CUP, countershaft front bearing	10	23 674 R1	RING, front bearing snap

DRAIN TRAIN

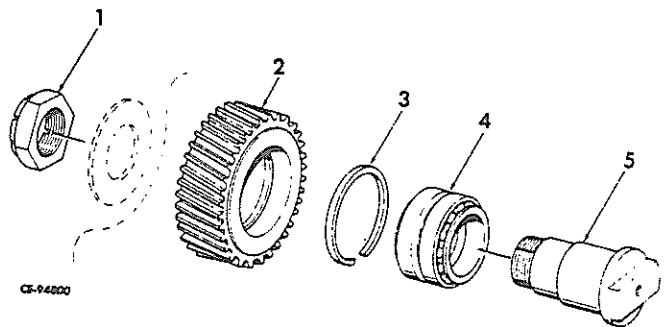
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION COUNTERSHAFT



1	317 706 C1	CUP, countershaft rear bearing
2	317 705 C91	CONE, countershaft rear bearing
3	621 190 C1	GEAR, first drive
4	621 191 C1	RING, countershaft first gear snap
5	622 278 C1	GEAR, second drive
6	324 052 R1	RING, gear retainer (2)
7	622 279 C1	GEAR, third drive
8	308 674 R91	BEARING, input shaft rear
9	124 551	KEY, drive gear (2)
10	622 276 C91	COUNTERSHAFT, w/BEARING, 308 674 R91 and RING, 621 191 C1

TRANSMISSION REVERSE IDLER SHAFT



1	18 615 R1	NUT, lock
2	621 203 C1	GEAR, reverse idler
3	627 095 C1	SPACER, bearing
4	627 094 C91	BEARING, reverse idler gear
5	622 286 C1 257 611 R1	SHAFT, reverse idler "O" RING

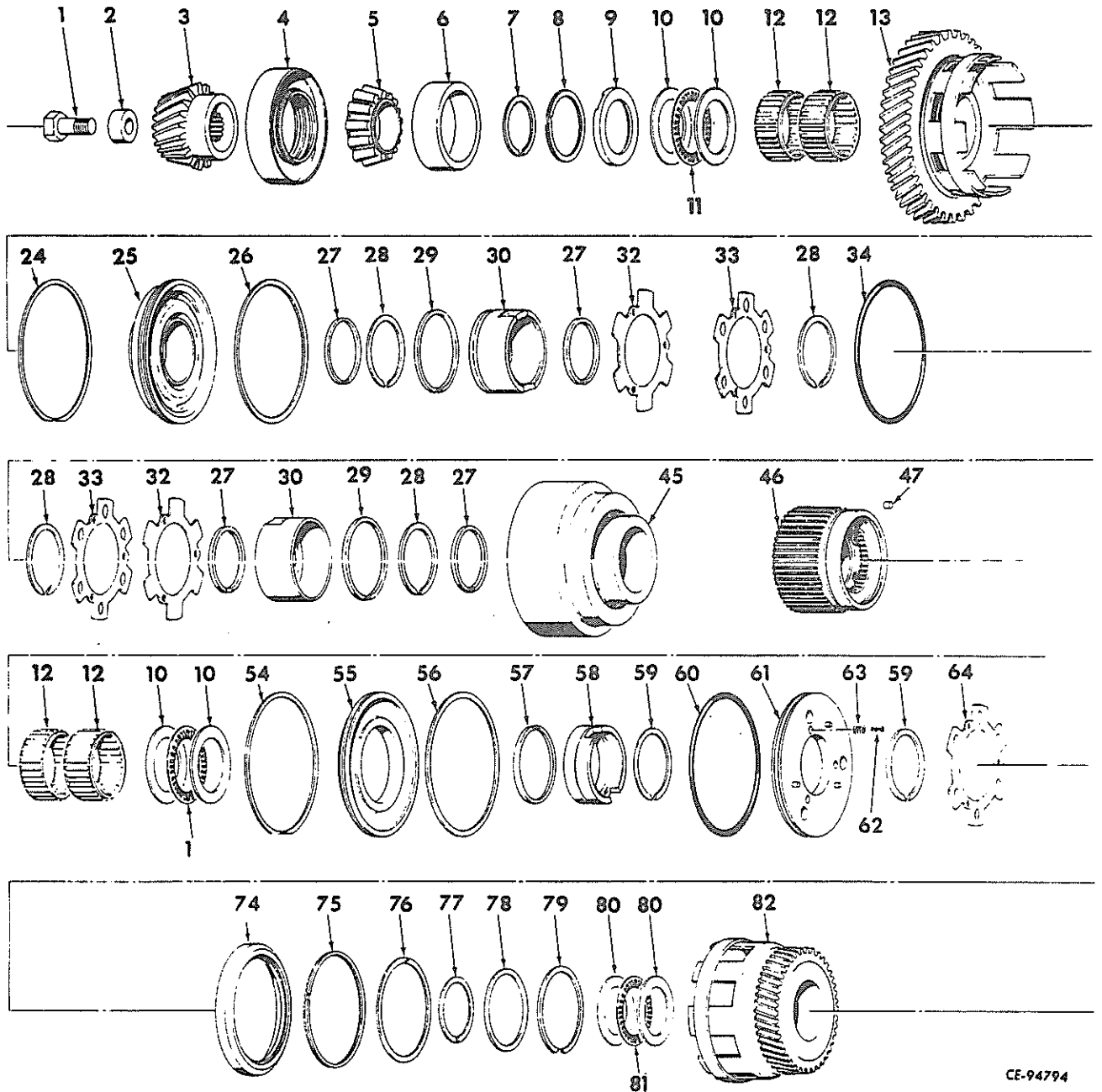
DRIVE TRAIN

MEMORANDA

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION SPEED CLUTCH PACK



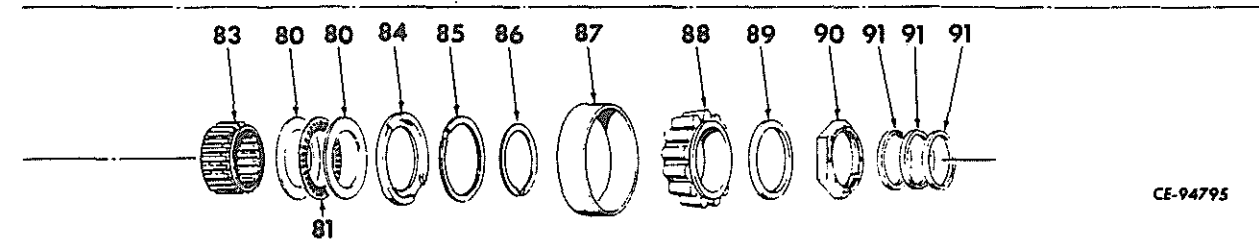
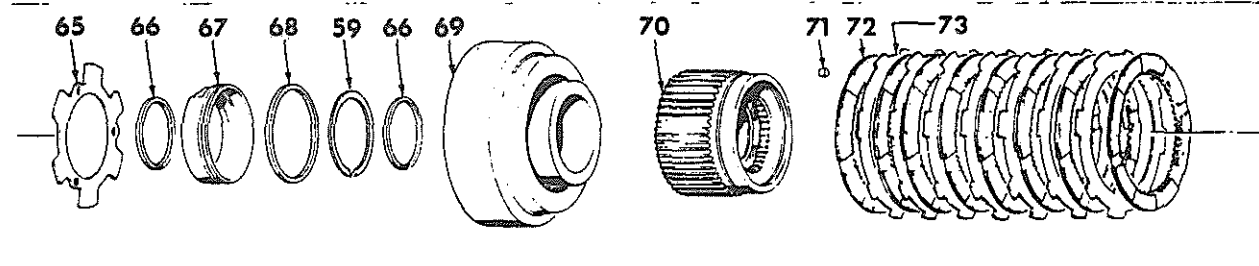
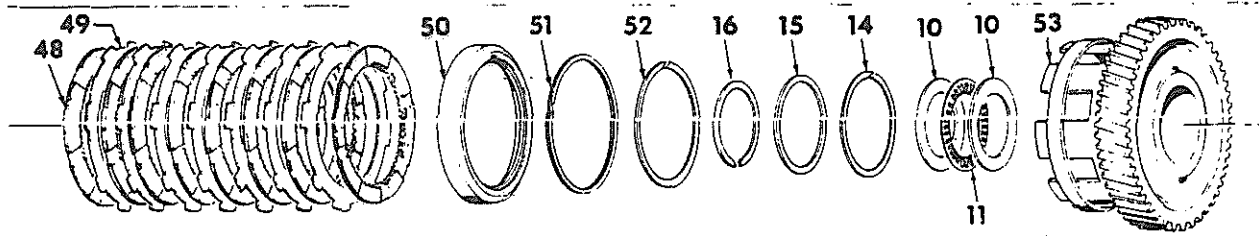
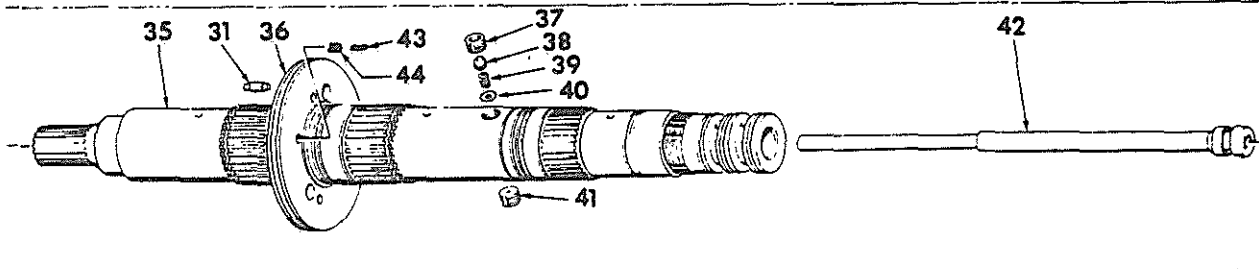
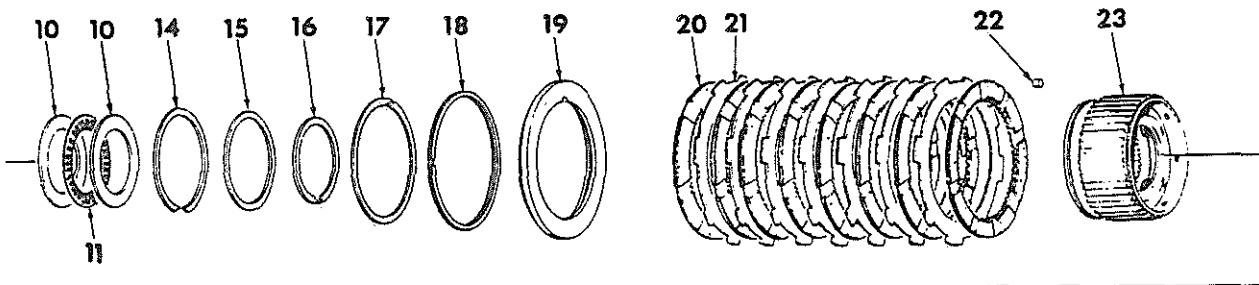
CE-94794

	619 855 C94	PACK ASSY, speed clutch (Composed of -	3	622 333 C1	GEAR, transmission bevel pinion shaft (Not part of PACK ASSY, 619 855 C94) (Also listed and illustrated with "Planetary and Steering Drive")
1	25 749 R1	SCREW, pinion retainer plate (Not part of PACK ASSY, 619 855 C94)			
2	622 260 C1	PLATE, pinion gear retainer (Not part of PACK ASSY, 619 855 C94)	4	622 300 C92	SEAL, bevel pinion shaft oil (Not part of PACK ASSY, 619 855 C94)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION SPEED CLUTCH PACK - Continued



CE-94795

5	625 431 C91	CONE, bevel pinion shaft rear bearing (Not part of PACK ASSY, 619 855 C94)
6	170 234 R1	CUP, bevel pinion shaft rear bearing (Not part of PACK ASSY, 619 855 C94)
7	625 253 C1	RING, snap (External)

8	144 246 H1	RING, snap (Internal)
9	625 225 C1	RETAINER, snap ring
10	625 260 C1	WASHER, thrust (8)
11	625 257 C91	BEARING, thrust (4)
12	625 220 C91	BEARING, roller (4)

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION SPEED CLUTCH PACK - Continued			37	625 231 C1	PLUG, pipe
13	625 936 C1	GEAR and DRUM	38	625 949 C1	BALL
14	324 232 R1	RING, snap (Internal) (2)	39	625 202 C1	SPRING, compression
15	627 310 C1	SPACER, clutch (2)	40	625 232 C1	WASHER, shakeproof (External)
16	627 308 C1	RING, snap (External) (2)	41	625 262 C1	PLUG, pipe
17	627 366 C1	RING, snap (External)	42		TUBE (Not Furnished Separately)
18	627 367 C1	RING, snap (Internal)	43	625 821 C1	SPRING, inner compression (6)
19	627 365 C1	PLATE, clutch backing	44	625 206 C1	SPRING, outer compression (6)
20	675 667 R1	PLATE, internal splined (12)	45	627 690 C2	HOUSING, piston
21	324 241 R1	PLATE, external splined (11)	46	630 282 C91	HUB ASSY, clutch final (Composed of -
22		NOT USED		\$ 1	HUB
23	630 283 C91	HUB ASSY, clutch final (Composed of -		9	PLATE 324 241 R1
		\$ 1 HUB		1	PLATE 627 365 C1
		11 PLATE 324 241 R1		10	PLATE 675 667 R1
		1 PLATE 627 365 C1		1	RING 627 367 C1
		12 PLATE 675 667 R1		1	RING 627 366 C1
		1 RING 627 366 C1			
		1 RING 627 367 C1	47		NOT USED
24	347 297 R1	RING, snap (Internal)	48	675 667 R1	PLATE, internal splined (10)
25	627 687 C2	PISTON, clutch	49	324 241 R1	PLATE, external splined (9)
26	324 226 R1	"O" RING (Lathe cut)	50	627 365 C1	PLATE, clutch backing
27	625 933 C1	RING, step joint seal (4)	51	627 367 C1	RING, snap (Internal)
28	200 167 H1	RING, snap (External) (4)	52	627 366 C1	RING, snap (External)
29	200 168 H1	RING, piston hook type seal (2)	53	625 221 C1	GEAR and DRUM
30	627 689 C2	PISTON, accelerating (2)	54	347 297 R1	RING, snap (Internal)
31	627 666 C2	PIN, dowel (3)	55	625 212 C1	PISTON, return clutch
32	610 751 C1	DISC, valve clutch (2)	56	324 226 R1	"O" RING (Lathe cut)
33	625 205 C1	DISC, reinforcing clutch (2)	57	619 098 C1	RING, piston hook type seal
34	324 227 R1	"O" RING	58	625 214 C1	SLEEVE, clutch
35	625 200 C91	SHAFT ASSY, speed clutch (Composed of -	59	324 222 R1	RING, snap (External) (3)
		1 BALL 625 949 C1	60	324 227 R1	"O" RING
		3 PIN 17 164 R1	61	625 213 C91	PLATE, w/three PIN, 625 263 C1, separator
		1 PLATE 625 201 C2		625 263 C1	PIN, dowel (3)
		1 PLUG 625 231 C1	62	625 821 C1	SPRING, inner compression (3)
		1 PLUG 625 262 C1	63	625 206 C1	SPRING, outer compression (3)
		2 RING 200 167 H1	64	625 205 C1	DISC, reinforcing clutch
		\$ 1 SHAFT	65	610 751 C1	DISC, valve clutch
		1 SPRING 625 202 C1	66	625 937 C1	RING, step joint seal (2)
		\$ 1 TUBE			
		1 WASHER 625 232 C1			
	17 164 R1	PIN, roll (3)			
36	625 201 C2	PLATE, separator			

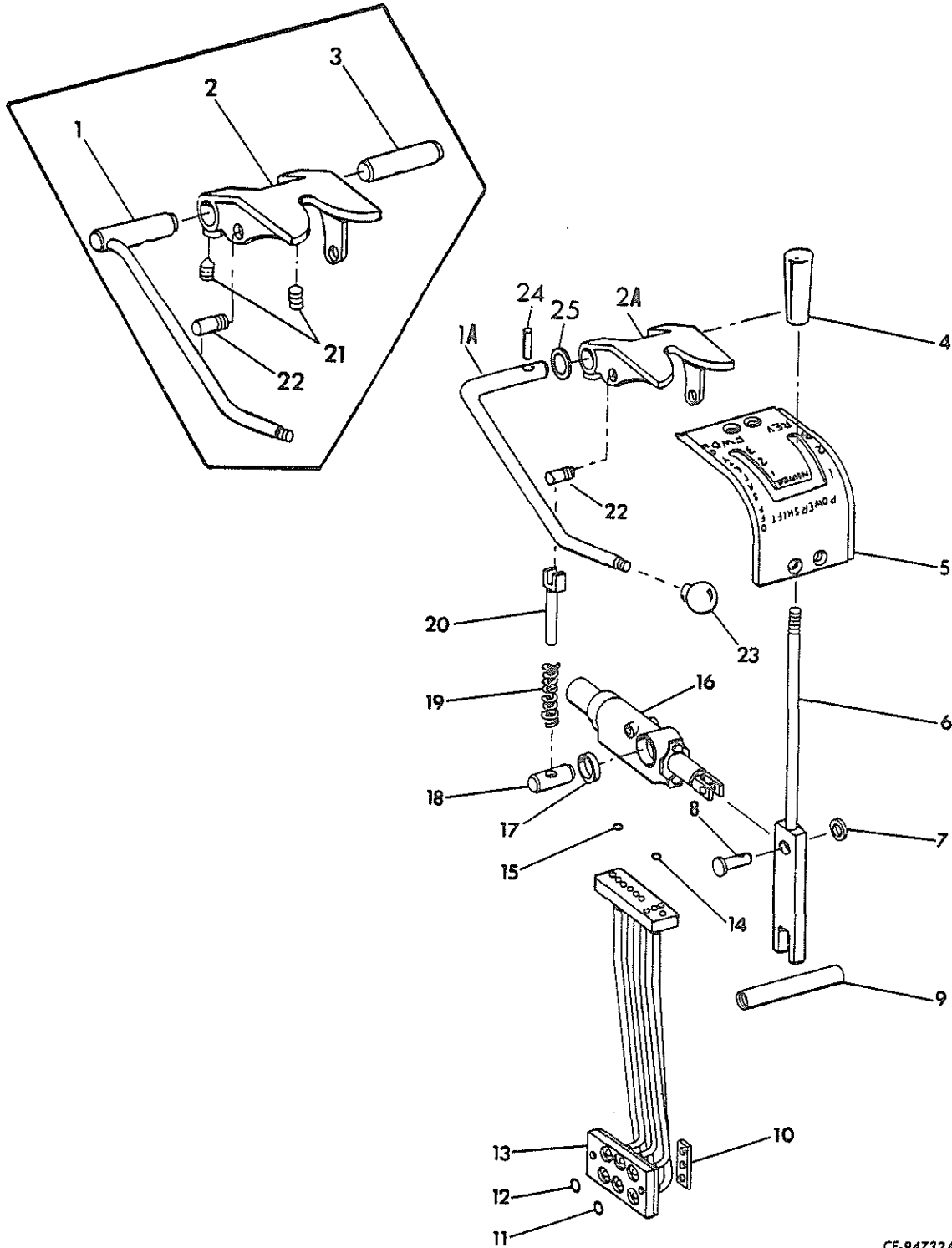
DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION SPEED CLUTCH PACK - Continued			89	628 277 C1	SPACER, pinion shaft front bearing adjusting (.0792 to .0807 thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)
67	627 251 C2	PISTON, accelerating	89	628 278 C1	SPACER, pinion shaft front bearing adjusting (.0822 to .0837" thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)
68	200 168 H1	RING, piston hook type seal	89	628 279 C1	SPACER, pinion shaft front bearing adjusting (.0852 to .0867 thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)
69	625 216 C2	HOUSING, piston	89	628 280 C1	SPACER, pinion shaft front bearing adjusting (.0882 to .0897 thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)
70	630 284 C91	HUB ASSY, clutch final (Composed of - \$ 1 HUB 9 PLATE 324 241 R1 1 PLATE 627 365 C1 10 PLATE 675 667 R1 1 RING 627 367 C1 1 RING 627 366 C1)	89	629 281 C1	SPACER, pinion shaft front bearing adjusting (.0912 to .0927 thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)
71		NOT USED	90	622 272 C1	NUT, pinion shaft front bearing lock (Not part of PACK ASSY, 619 855 C94)
72	675 667 R1	PLATE, internal splined (10)	91	621 210 C2	RING, speed shaft front sealing (Not part of PACK ASSY, 619 855 C94) (3)
73	324 241 R1	PLATE, external splined (9)		621 054 C1	GEAR, drive bevel (Not part of PACK ASSY, 619 855 C94) (Also listed and illustrated with "Planetary and Steering Drive")
74	627 365 C1	PLATE, clutch backing		622 476 C91	GEAR, 621 054 C1 and GEAR, 622 333 C1, drive bevel (Matched set) (Not part of PACK ASSY, 619 855 C94) (Also listed and illustrated with "Planetary and Steering Drive")
75	627 367 C1	RING, snap (Internal)		625 877 C91	KIT, seal and spring (Consists of - 2 "O" RING 324 226 R1 2 "O" RING 324 227 R1 3 RING 200 167 H1 3 RING 200 168 H1 3 RING 324 222 R1 1 RING 619 098 C1 1 RING 625 253 C1 1 RING 625 254 C1 4 RING 625 933 C1 2 RING 625 037 C1 9 SPRING 625 206 C1 9 SPRING 625 821 C1)
76	627 366 C1	RING, snap (External)			
77	625 252 C1	RING, retainer split (2)			
78	625 219 C1	RING, retainer hub			
79	324 232 R1	RING, snap (Internal)			
80	610 769 C1	WASHER, thrust (4)			
81	584 268 R91	BEARING, roller (2)			
82	625 223 C1	GEAR and DRUM			
83	625 258 C91	BEARING, roller			
84	625 224 C1	RETAINER, snap ring			
85	558 383 R1	RING, snap (Internal)			
86	625 254 C1	RING, snap (External)			
87	ST 863	CUP, bevel pinion shaft front bearing (Not part of PACK ASSY, 619 855 C94)			
88	622 265 C91	CONE, bevel pinion shaft front bearing (Not part of PACK ASSY, 619 855 C94)			
89	628 275 C1	SPACER, pinion shaft front bearing adjusting (.0732 to .0747" thick) (Not part of PACK ASSY, 619 855 C94)			
89	628 276 C1	SPACER, pinion shaft front bearing adjusting (.0762 to .0777" thick) (Use one washer as required in place of 622 266 C1) (Not part of PACK ASSY, 619 855 C94)			

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION CONTROLS



CE-94732A

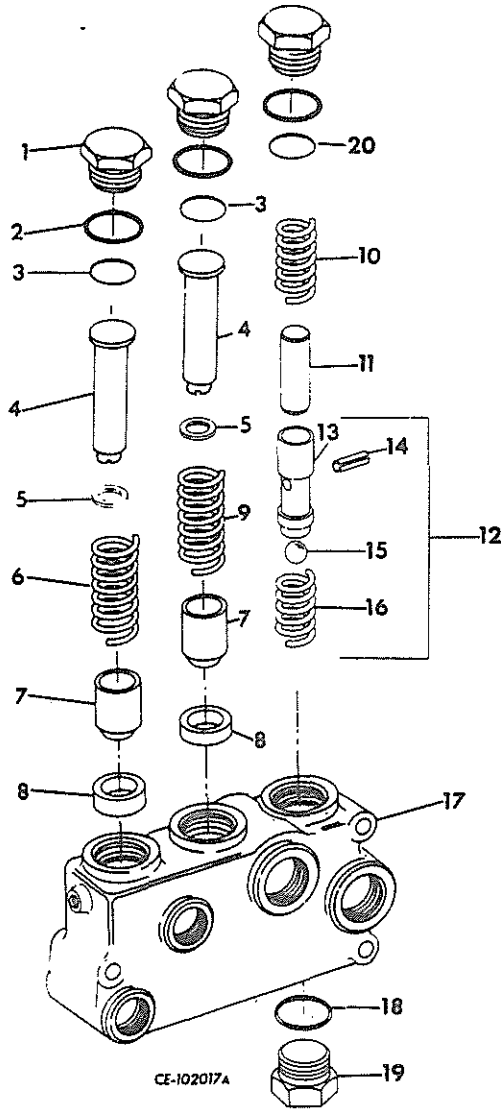
DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION CONTROLS - Continued			12	355 966 R1	"O" RING, pilot control manifold junction sealing (5)
1	622 317 C2	LEVER, safety lock 6082 and below	13	622 321 C1	MANIFOLD, pilot valve to transmission hose junction block
1A	713 209 C1	LEVER, safety lock 6083 and up	616 268 C1	SCREW, (Manifold to pilot valve) (3)	
2	628 314 C91	LOCK w/contact, safety (Order the following parts -- 6082 and below 1 DRAWING CZG 2696 1 LEVER 713 209 C1 1 LOCK 713 259 C91 1 PIN 364 436 R1 2 SCREW 713 215 C1 1 SUPPORT 713 214 C1 2 WASHER 713 274 C1)	116 120	WASHER, lock (3)	
			14	352 219 R1	"O" RING, manifold to valve sealing (7)
			15	355 967 R1	"O" RING, pilot valve drain sealing
			16		VALVE ASSY, pilot control (Refer to "Pilot Control Valve")
2A	713 259 C91	LOCK w/CONTACT & PIN, 616 270 C1 safety (Together w/ONE LEVER, 713 209 C1, one PIN, 364 436 R1, one SUPPOT, 713 214 C1, two SCREW, 713 215 C1 and one WASHER, 713 274 C1 will work for LOCK 628 314 C91) 6083 and up	17	617 068 C1	BUSHING, safety lock pivot
	25 933 R1	NUT, jam	18	327 910 R2	SHAFT, safety lock pivot
	141 036	SCREW, hd-less slotted set dog pt.	19	331 953 R2	SPRING, safety lock
	223 155	SCREW, hd-less hex. soc. set 1/2" dog pt.	20	327 912 R4	GUIDE, safety lock spring
	116 121	WASHER, lock	21	617 256 C1	SCREW, safety lock lever set (2) 6082 and below
3	622 977 C1	SHAFT, safety lock 6082 and below	22	616 270 C1	PIN, safety lock
4	347 768 R1	HANDLE, pilot control hand lever	23	307 839 R1	KNOB, safety lock lever
5	622 323 C2	GATE, power shift transmission control	24	364 436 R1	PIN, spring
	133 901	SCREW, flat-hd mach. (4) 6082 and below (2) 6083 and up	25	713 274 C1	WASHER, lever spring (2) 6083 and up
	713 215 C1	SCREW, flat-hd mach. (2) 6083 and up			
6	622 314 C1	LEVER, pilot control hand			
7	52 917 R1	WASHER, rod end pin			
8	27 128 H 103 384	PIN, rod end (Lever to valve) PIN, cotter			
9	617 112 C1 24 839 R1 115 093	PIN, pilot control lever pivot SCREW, hex-hd cap WASHER, lock			
10	622 322 C1	BRACKET, manifold to battery box mounting (2)			
	25 222 R1	SCREW, 1/4" dia. hex-hd cap (To manifold) (2)			
	25 768 R1	SCREW, 3/8" dia. hex-hd cap (To battery box) (2)			
	115 109	WASHER, 1/4" lock (2)			
	115 093	WASHER, 3/8" lock (2)			
	103 341	WASHER, flat (2)			
11	352 221 R1	"O" RING, junction block drain sealing			

DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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REGULATOR VALVE



6	657 503 C1	SPRING, lubricating valve
7	622 658 C1	VALVE, poppet (2)
8	622 661 C1	SEAT, poppet valve (2)
9	622 663 C2	SPRING, cooler valve
10	738 162 C1	SPRING, spool (Replaces 657 548 C1)
11	738 163 C1	PIN, spool spring guide (Replaces 657 703 C2)
12	657 543 C91	SPOOL ASSY
13	\$	SPOOL
14	19 397 R1	PIN, spring
15	346 509 R1	BALL
16	347 243 R1	SPRING
17	\$	BODY, regulator valve
18	368 269 R1	"O" RING, spool plug
19	656 958 C1	PLUG, spool
20	656 466 C1	SHIM (6 maximum)

657 701 C93	VALVE ASSY, regulator
21 318 R1	SCREW, hex-hd cap (3)
115 093	WASHER, lock (3)
103 341	WASHER, (3)
	(Composed of -
1	622 659 C1 PLUG, valve retaining (3)
2	297 459 R1 RING, plug sealing (3)
3	656 466 C1 SHIM (4 maximum per port)
4	622 660 C1 PISTON (2)
5	657 891 C1 SHIM, valve lube and converter port (2 maximum per piston)

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REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

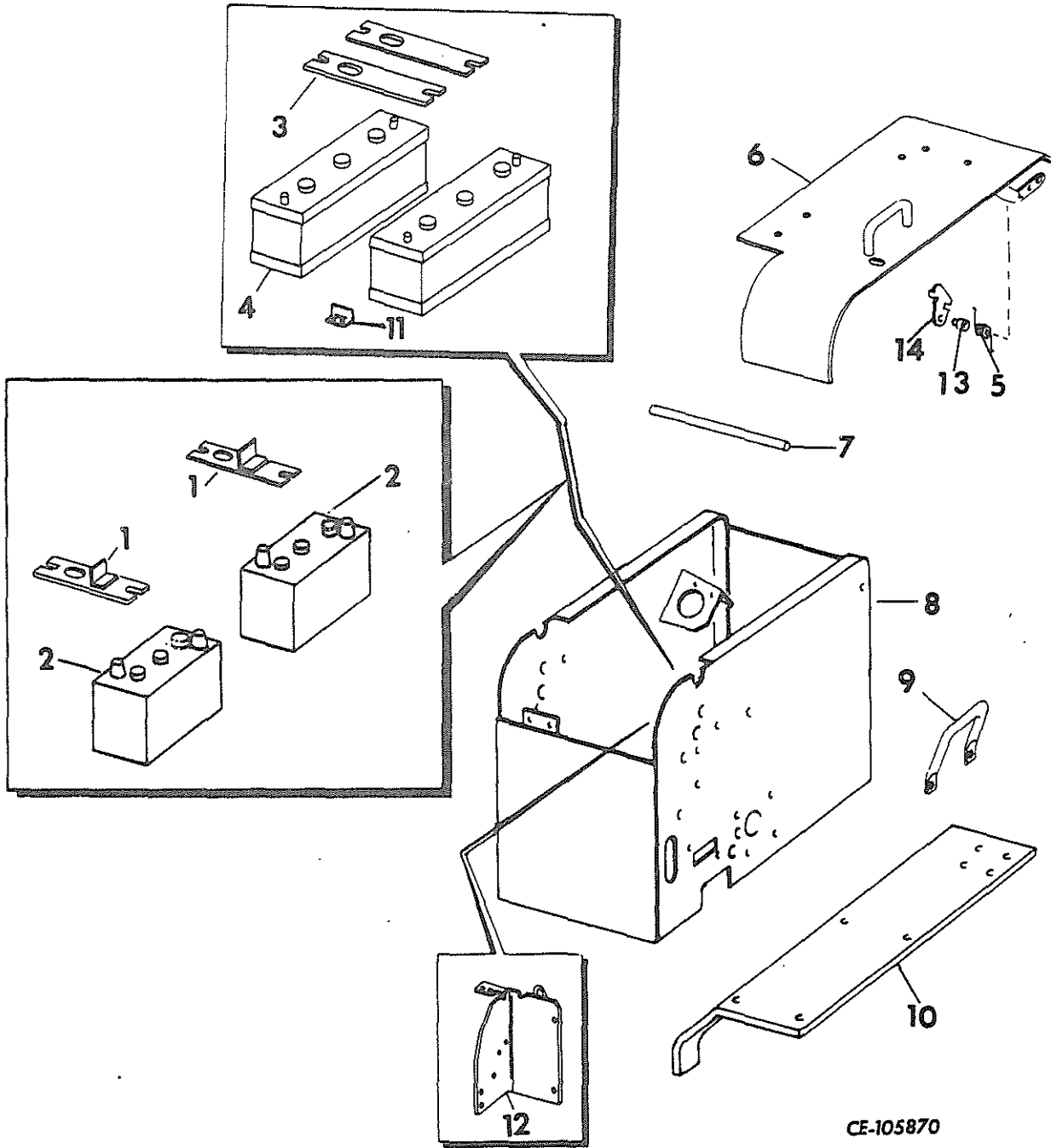
ELECTRICAL

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ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BATTERIES AND MOUNTING



CE-105870

1	663 130 C1	BAR, battery holddown (For models not equipped w/cold starting BATTERIES) (2)	2	1H PF2	BATTERY (Not cold starting) (6 volt dry charged) (2)
	24 841 R1	SCREW, hex-hd cap (4)			

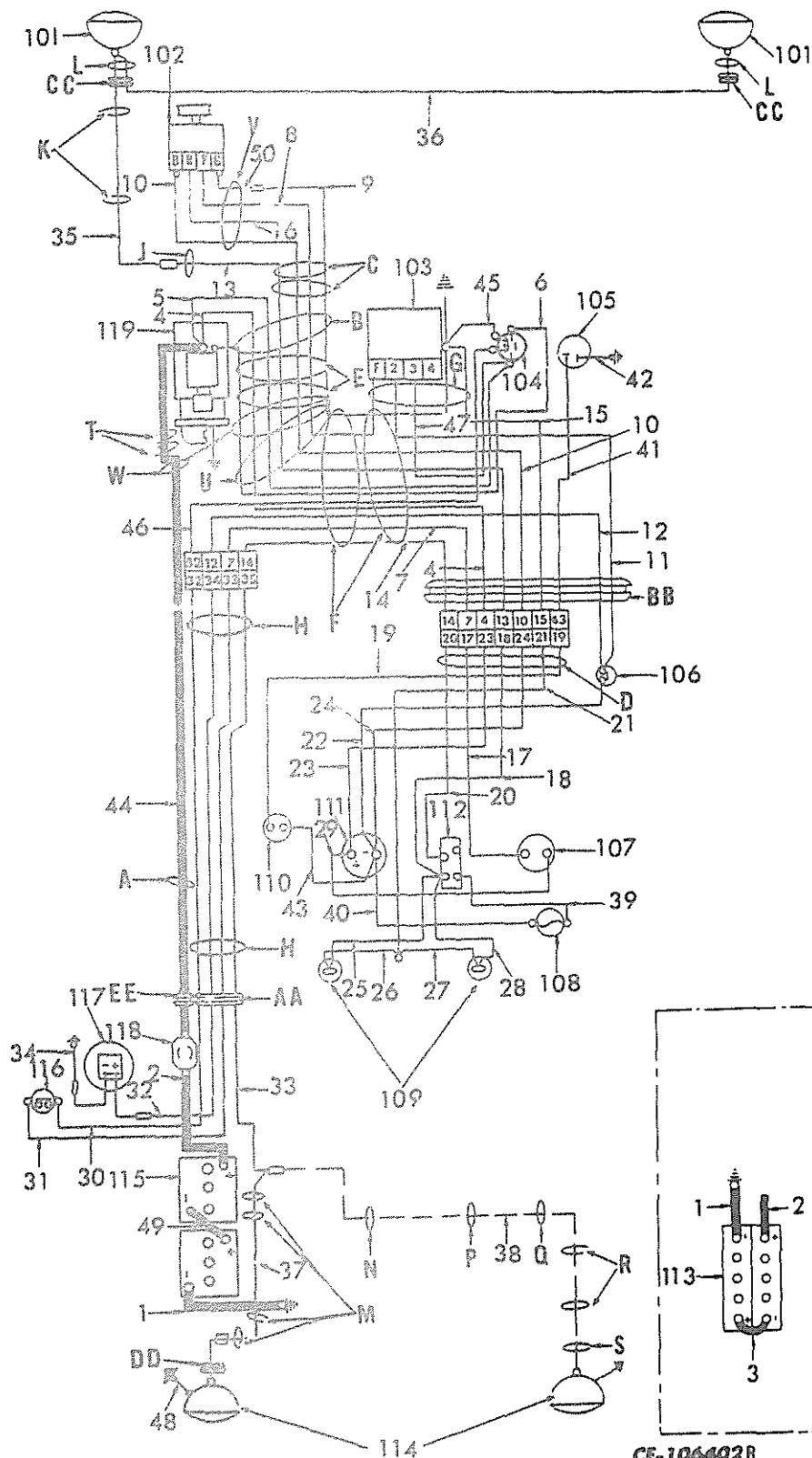
ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BATTERIES AND MOUNTING - Continued					
3	663 131 C1	CHANNEL, battery holddown (For models equipped w/cold starting BATTERIES) (2)			
	24 843 R1	SCREW, hex-hd cap (4)			
4	IH PR4 EH	BATTERY (Cold starting) (6 volt dry charged) (2)			
5	628 207 C1	SPRING, cover latch torsion			
6	621 752 C1	COVER, battery box			
7	621 757 C1	SHAFT, battery box hinge			
8	668 319 C91	BOX w/COVER (Order Box, 668 319 C93 and BRACKET, 706 473 C1 w/two BOLT, 20 834 R1 and w/two WASHER, 120 382 also two SCREWS, 713 215 C1)			
8	668 319 C92	BOX, w/COVER (Order BOX, 668 319 C93 and two SCREWS, 713 215 C1)			
8	668 319 C93	BOX, w/COVER, 621 752 C1 SHAFT, 621 757 C1 and two WASHER, 103 343, battery (Together w/BRACKET, 706 473 C1, two BOLT, 20 834 R1, two WASHER, 120 382 and two SCREW, 713 215 C1 will work for BOX, 668 319 C91)(Together w/two SCREW, 713 215 C1 will work for BOX, 668 319 C92)			
	24 873 R1	BOLT (4)			
	25 537 R1	WASHER, flat (4)			
9	621 741 C1	HANDLE, assist			
	24 861 R1	SCREW, hex-hd cap (2)			
	116 121	WASHER, lock (2)			
	25 526 R1	NUT (2)			
10	668 198 C3	BRACKET, battery box support			
	24 890 R1	BOLT (4)			
	25 548 R1	WASHER, hardened (4)			
11	621 760 C1	ANGLE, front battery locating (For models equipped w/cold starting BATTERIES)			
	179 839	SCREW, hex-hd cap (2)			
	103 341	WASHER (2)			
	103 321	WASHER, lock (2)			
12	628 312 C1	PLATE, battery box divider			
	24 840 R1	SCREW, hex-hd cap (4)			
	106 263	WASHER (4)			
	115 093	WASHER, lock (4)			
13	628 208 C1	SPACER, cover latch			
14	628 206 C3	LATCH, battery box cover			
	25 927 R1	SCREW, hex-hd cap			
	25 534 R1	WASHER, flat			
	25 520 R1	NUT			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ELECTRIC STARTING AND LIGHTING
(6062 and below)



CE-106402B

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6062 and below)			17		CABLE, dash connector to starting switch (White) (Part of instrument panel HARNESS)
CABLES					
1	330 823 R91	CABLE, negative terminal on battery to ground	18		CABLE, dash connector single to "H" terminal on light switch (Dark green) (Part of instrument panel HARNESS)
	179 839	SCREW, hex-hd cap			
	180 358	WASHER, lock (2)			
2	703 056 C2	CABLE, positive terminal on battery to master switch	19		CABLE, ether starting switch to dash connector (Pink) (Part of instrument panel HARNESS)
3	266 854 R92	CABLE, battery to battery (For models equipped w/cold starting BATTERIES)	20		CABLE, dash connector to "R" terminal on light switch (Dark blue) (Part of instrument panel HARNESS)
4		CABLE, "B" terminal on solenoid to dash connector (Red) (Part of dash HARNESS)	21		CABLE, dash connector to ground screw on instrument panel (Black) (Part of instrument panel HARNESS)
5		CABLE, "B" terminal on solenoid to magnetic switch (Orange) (Part of dash HARNESS)	22		CABLE, engine oil pressure switch to negative terminal on ammeter (Yellow) (Part of instrument panel HARNESS)
6		CABLE, "S" terminal on solenoid to magnetic switch (White) (Part of dash HARNESS)	23		CABLE, dash connector to positive terminal on ammeter (Red) (Part of instrument panel HARNESS)
7		CABLE, safety switch connector to dash connector (White) (Part of dash HARNESS)	24		CABLE, dash connector to negative terminal on ammeter (Brown) (Part of instrument panel HARNESS)
8		CABLE, "F" terminal on alternator to "F" terminal on regulator (Light green) (Part of dash HARNESS)	25		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
9		CABLE, alternator "G" terminal connector mounting bolt of regulator (Black) (Part of dash HARNESS)	26		CABLE, instrument panel ground screw to instrument panel lamp (Part of instrument panel lamp)
10		CABLE, "B" terminal on alternator to dash connector (Brown) (Part of dash HARNESS)	27		CABLE, instrument panel ground screw to instrument panel lamp (Part of instrument panel lamp)
11		CABLE, number 2 terminal on regulator to engine oil pressure switch (Light blue) (Part of dash HARNESS)	28		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
12		CABLE, safety switch connector to engine oil pressure switch (Purple) (Part of dash HARNESS)	29	266 098 R91	CABLE, positive terminal on ammeter to start switch
13		CABLE, front lamp connector to dash connector (Dark green) (Part of dash HARNESS)	30		CABLE, safety starting switch to safety switch connector (White) (Part of safety starting switch HARNESS)
14		CABLE, safety switch connector to dash connector (Dark blue) (Part of dash HARNESS)	31		CABLE, safety starting switch to safety switch connector (White) (Part of safety starting switch HARNESS)
15		CABLE, mounting bolt of regulator to dash connector (Black) (Part of dash HARNESS)	32		CABLE, hourmeter connector positive to safety switch connector (Purple) (Part of safety starting switch HARNESS)
16		CABLE, "R" terminal on alternator to dummy cable (Black) (Part of dash HARNESS)			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6062 and below)			tor to magnetic switch (Orange) (Part of dash HARNESS)		
<u>CABLES - Continued</u>			48	622 999 C1	CABLE, lamp brush guard to top rear bolt of canopy rear support LH side (Part of ATTACHMENT, 632 660 C91 and 706 274 C91)
33		CABLE, rear lamp connector to safety switch connector (Dark blue) (Part of safety starting switch HARNESS)		21 176 R1	BOLT, 3/4" long
				211 216 R1	BOLT, 4" long
				21 330 R1	NUT (2)
34	271 065 R91	CABLE, negative ground terminal on hourmeter to ground		25 645 R1	WASHER, hardened
	110 633	NUT		120 384	WASHER, lock (2)
	436 378	SCREW, mach	49	621 821 C2	CABLE, battery to battery (For models not equipped w/cold starting BATTERIES)
	178 378	WASHER, int-ext tooth lock	50	650 894 C1	CABLE, alternator "G" terminal to connector (Used w/HARNESS, 621 819 C3)
35	621 834 C1	CABLE, front lamp connector to LH front lamp (Part of ATTACHMENTS 632 660 C91 and 632 661 C91)	<u>MAIN COMPONENTS</u>		
35	624 647 C1	CABLE, front lamp connector to LH front lamp (Part of ATTACHMENTS 706 273 C91 and 706 274 C91)	101		LIGHT ASSEMBLY, RH and LH front (Refer to "Headlight and Rearlight")
36	703 060 C1	CABLE, LH front lamp to RH front lamp (Part of ATTACHMENTS 632 660 C91 and 632 661 C91)	102		ALTERNATOR ASSY (Refer to "Alternator")
36	663 113 C1	CABLE, LH front lamp to RH front lamp (Part of ATTACHMENTS 706 273 C91 and 706 274 C91)	103		REGULATOR, voltage (Refer to "Voltage Regulator")
37		CABLE, LH rear lamp to rear lamp connector (Dark blue) (Part of safety starting switch HARNESS)	104	706 124 C2	SWITCH, magnetic
				120 214	WASHER, 5/16" lock (2)
				120 376	NUT, 5/16" (2)
				120 217	WASHER, No. 10 lock (2)
				120 614	NUT, No. 10 (2)
38	621 844 C1	CABLE, rear lamp connector to RH rear lamp (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)		25 222 R1	SCREW, hex-hd cap (2)
				115 109	WASHER, lock (2)
39	604 893 C91	CABLE, fuse housing to "B" terminal on light switch	105		INJECTOR, electric ether (Refer to "Ether Injector, Bracket and Nozzle")
40	621 813 C1	CABLE, fuse housing to negative terminal on ammeter	106		SWITCH, hourmeter (Refer to "Instruments and Instrument Panel")
41		CABLE, ether injector to dash connector (Pink) (Part of dash HARNESS)	107		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
42		CABLE, ether injector to ether injector mounting bolt (Black) (Part of dash HARNESS)	108	376 852 R91	HOUSING, fuse
				432 644	FUSE
43	266 098 R91	CABLE, ether starting switch to negative terminal on ammeter	109	621 774 C91	LAMP, instrument panel (2)
44	622 189 C1	CABLE, master switch to "B" terminal on solenoid	110		SWITCH, ether starting (Refer to "Starting and Ether Starting Switch")
45		CABLE, magnetic switch to regulator mounting bolt (Black) (Part of dash HARNESS)	111		AMMETER (Refer to "Instruments and Instrument Panel")
46		CABLE, safety starting switch connector to magnetic switch (White) (Part of dash HARNESS)	112		SWITCH, lighting (Refer to "Lighting Switch")
47		CABLE, number 3 terminal on regula-	113		BATTERIES (cold starting) (Refer to "Batteries and Mounting")
			114		LIGHT ASSY, rear and auxiliary (Refer to "Headlight and Rearlight")

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6062 and below)			P	311 500 R1	CLAMP, rear lamp cable (On top fifth from left, front bolt of rear frame cover) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)
115		BATTERIES (Refer to "Batteries and Mounting")	Q	311 500 R1	CLAMP, rear lamp cable (On top second from right, front bolt of rear frame cover) (Part of ATTACHMENT 668 352.C91 and 668 353 C91)
116	621 771 C91	SWITCH, safety starting	R	320 180 R1	CLAMP, rear lamp cable (On front of seat back mounting bolts on angle welded to side of hydraulic box) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91) (2)
117		HOURMETER (Refer to "Hourmeter")	S	299 609 C1	CLAMP, rear lamp cable (On LH tapped hole on rear hydraulic tank) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)
118		SWITCH, master (Refer to "Master Switch")	T	622 963 C1	CLIP, master switch to solenoid cable (On lower two inspection cover mounting bolts) (2)
119		MOTOR ASSY, cranking (Refer to "Cranking Motor")	U	363 444 R1	CLIP, dash harness (On second and third bolt from top LH side of torque converter rear housing) (2)
CLIPS AND CLAMPS					
A	622 963 C1	CLIP, master switch to solenoid cable (On pivot pin mounting block on frame)	V	363 444 R1	CLIP, dash harness (On back of alternator pivot mounting bolt)
B	363 444 R1	CLIP, dash harness (On rear ether injector mounting bolt)	W	363 660 R1	CLIP, battery cable and dash harness (On bottom LH side of dash)
C	363 444 R1	CLIP, dash harness (On forward two crankcase bosses - LH side)(2)		25 522 R1	NUT
	24 838 R1	SCREW, hex-hd cap		24 839 R1	SCREW, hex-hd cap
	115 093	WASHER, lock		115 093	WASHER, lock
D		CLIP, welded		299 609 C1	CLIP on RH rear hole on top of battery box (Part of ATTACHMENT, 632 660 C91, 632 661 C91, 706 273 C91 and 706 274 C91)
E	363 444 R1	CLIP, dash harness (On top two inspection cover mounting bolts)(2)		24 859 R1	BOLT
F		CLIP, welded		25 526 R1	NUT
G		CLIP, welded		116 121	WASHER, lock
H	363 444 R1	CLIP, safety starting switch harness (On forward and reverse pivot pin mounting bolt)(2)		299 609 C1	CLIP, on bottom of rear lamp bracket (Part of 632 660 C91, 632 661 C91, 668 352 C91, 668 353 C91, 706 273 C91 and 706 274 C91)
	24 838 R1	SCREW, hex-hd cap (2)		211 216 R1	BOLT
	115 093	WASHER, flat (2)		25 526 R1	NUT
J	384 554 R1	CLIP, dash harness (On LH outer upper bolt of crankcase front cover)		25 645 R1	WASHER, flat
K	366 460 R1	CLIP, front lamp cable (On fan shroud LH top and bottom fan guard mounting bolts)(2)		299 609 C91	CLIP, on bottom hole of ROPS rear post (Part of ATTACHMENT, 632 660 C91, 632 661 C91, 706 273 C91 and 707 274 C91)
L	263 717 R91	CLIP, on lower inside mounting hole front lamp guards (Part of ATTACHMENT 632 660 C91 and 632 661 C91) (Replaces 622 967 C1) (2)			
L	276 956 R91	CLIP, on lower inside mounting hole front lamp guards (Part of ATTACHMENT, 706 273 C91 and 706 274 C91) (2)			
M		CLIP, welded		20 654 R1	BOLT
N	311 500 R1	CLAMP, rear lamp cable (On top, second from left, front bolt of rear frame cover) (Part of ATTACHMENT 668 352 C91 and 668 353 C91)		102 637	NUT
				25 673 R1	WASHER, flat
				702 093 C1	STRAP, for unused cables (4)

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ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ELECTRICAL STARTING AND LIGHTING - Continued
(6062 and below)

GROMMETS

AA	63 323 D	GROMMET, lower RH corner battery box
BB	176 027 H1	GROMMET, dash (Near center)
CC	53 324 R1	GROMMET, LH and RH side of radiator guard (Part of ATTACHMENT, 632 660 C91 and 632 661 C91)
CC	117 962	GROMMET, on radiator guard header (Part of ATTACHMENT, 706 273 C91)
CC	617 259 C91	GROMMET, on radiator guard header (Part of ATTACHMENT 706 274 C91)
DD	267 630 C1	GROMMET, on radiator guard header (Part of ATTACHMENT, 632 660 C91, 632 661 C91, 706 273 C91 and 706 274 C91)
EE	52 062 D	GROMMET, lower RH corner battery box

HARNESSES

621 819 C3 HARNESS, dash (Consists of ref. nos. 4 thru 16, 41, 42, 45, 46 and 47)

HARNESS TO CRANKING MOTOR

120 377 NUT, 3/8"
120 614 NUT, No. 10 NF
120 382 WASHER, 3/8" lock
120 217 WASHER, No. 10 lock

HARNESS TO ALTERNATOR

120 614 NUT, 10 NF
121 743 NUT, No. 12
120 217 WASHER, No. 10 lock
121 744 WASHER, No. 12 lock

621 820 C1 HARNESS, instrument panel
(Consists of ref. nos. 17 thru 24)

120 361 NUT (2)
436 734 SCREW, hex-hd cap
178 378 WASHER, int-ext tooth lock (2)
120 217 WASHER, lock

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6062 and below)			668 352 C91 ATTACHMENT, electric lighting auxiliary RH rear (For use w/ROPS canopy w/o backhoe) (See NOTE 3)		
HARNESSES - Continued			(Consists of -		
621 814 C2	HARNESS, safety starting switch (Consists of cables 30 thru 33 and 37)		2	BOLT	20 288 R1
			1	BOLT	20 654 R1
			1	BOLT	179 890
			1	BRACKET	709 314 C1
			1	CABLE	621 844 C1
			3	CLAMP	311 500 R1
			2	CLAMP	320 180 R1
			3	CLIP	299 609 C1
			1	LAMP	625 657 C91
			4	NUT	102 637 R1
			1	NUT	120 378
			1	SWIVEL	303 706 R1
			3	WASHER	25 673 R1
			1	WASHER	118 975
			1	WASHER	120 384)
MISCELLANEOUS			668 353 C91 ATTACHMENT, electric lighting auxiliary RH rear (For use w/Roll-Over Protective Canopy Structure and backhoe) (See NOTE 3)		
632 660 C91	ATTACHMENT, Electric lighting (For use w/ROPS canopy w/o backhoe) (See NOTE 1)		(Consists of -		
	(Consists of -		1	BOLT	20 654 R1
	1 BOLT	21 176 R1	4	BOLT	179 881
	2 BOLT	21 329 R1	1	BOLT	179 890
	1 BOLT	24 859	1	CABLE	621 844 C1
	1 BOLT	211 216 R1	3	CLAMP	311 500 R1
	3 BOLT	436 485 R1	2	CLAMP	320 180 R1
	4 BOLT	454 998	3	CLIP	299 609 C1
	1 BRACKET	709 314 C1	1	GUARD	668 262 C1
	1 CABLE	621 834 C1	1	LAMP	625 657 C91
	1 CABLE	622 999 C1	2	NUT	102 637
	1 CABLE	703 060 C1	1	NUT	120 378
	1 CABLE	709 063 C1	1	PLATE	668 294 C1
	3 CLAMP	299 609 C1	1	SWIVEL	303 706 R1
	2 CLIP	263 717 R91	1	WASHER	25 673
	1 GROMMET	617 259 C1	5	WASHER	118 975
	2 GROMMET	53 324 R1	1	WASHER	120 384)
	2 GUARD	668 262 C1			
	3 LAMP	625 657 C1	706 412 C91 ATTACHMENT, electric rear light (For use w/ROPS w/rear screen, w/o backhoe) (See NOTE 1)		
	8 NUT	21 330 R1	(Consists of -		
	2 NUT	25 526 R1	1	LAMP	668 292 C91
	3 SWIVEL	303 706 R1	1	NUT	21 330 R1
	6 WASHER	25 645 R1	1	WASHER	102 384)
	1 WASHER	116 121			
	4 WASHER	120 384			
	3 WASHER	138 530			
	5 WASHER	180 447)			
632 661 C91	ATTACHMENT, electric lighting (For use w/ROPS canopy w/backhoe) (See NOTE 1)		(Consists of -		
	(Consists of -		1	BOLT	24 859 R1
	1 BOLT	211 216 R1	1	BOLT	211 216 R1
	3 BOLT	236 485 R1	3	BOLT	236 485 R1
	8 BOLT	454 998	8	BOLT	454 998
	1 CABLE	621 834 C1	1	CABLE	621 834 C1
	1 CABLE	703 060 C1	1	CABLE	703 060 C1
	1 CABLE	709 063 C1	1	CABLE	709 063 C1
	3 CLAMP	299 609 C1	3	CLAMP	299 609 C1
	2 CLIP	263 717 R91	2	CLIP	263 717 R91
	1 GROMMET	617 259 C1	1	GROMMET	617 259 C1
	2 GROMMET	53 324 R1	2	GROMMET	53 324 R1
	3 GUARD	668 262 C1	3	GUARD	668 262 C1
	3 LAMP	625 657 C91	3	LAMP	625 657 C91
	6 NUT	21 330 R1	6	NUT	21 330 R1
	2 NUT	25 526 R1	2	NUT	25 526 R1
	1 PLATE	668 294 C1	1	PLATE	668 294 C1
	3 SWIVEL	303 706 R1	3	SWIVEL	303 706 R1
	3 WASHER	25 645 R1	3	WASHER	25 645 R1
	1 WASHER	116 121	1	WASHER	116 121
	3 WASHER	120 384	3	WASHER	120 384
	3 WASHER	138 530	3	WASHER	138 530
	9 WASHER	180 447)	9	WASHER	180 447)

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ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6062 and below)					
706 273 C91		ATTACHMENT, electric light (For use on machines equipped w/backhoe, ROPS, sweeps) (See NOTE 1) (Consists of -			
	1	BOLT 24 859 R1		4	WASHER 120 384
	4	BOLT 25 007 R1		3	WASHER 138 530
	3	BOLT 186 277		1	WASHER 180 447)
	1	BOLT 211 216 R1	104 941		CORK, No. 5 head lamp guard mounting hole (On radiator guard) (Not used on models equipped with headlights) (4)
	4	BOLT 454 998			
	1	CABLE 624 647 C1	106 623		CORK, No. 8 front lamp cable grommet hole (On radiator guard) (Not used on models equipped with headlights) (2)
	1	CABLE 663 113 C1			
	1	CABLE 709 063 C1			
	2	CLIP 276 956 R91			
	3	CLAMP 299 609 C1			
	1	GROMMET 117 962			
	1	GROMMET 617 259 C1			
	1	GUARD 663 061 C1			
	1	GUARD 668 262 C1			
	3	LAMP 625 657 C91			
	2	NUT 25 526 R1			
	3	NUT 21 330 R1			
	3	NUT 102 635			
	1	PAD 668 460 C1			
	1	PLATE 668 294 C1			
	3	SWIVEL 303 706 R1			
	1	WASHER 25 645 R1			
	4	WASHER 25 846 R1			
	3	WASHER 111 328			
	1	WASHER 116 121			
	4	WASHER 120 383			
	3	WASHER 120 384			
	3	WASHER 138 530			
	4	WASHER 180 447)			
706 274 C91		ATTACHMENT, electric light (for use on machines equipped w/ROPS, sweeps w/o backhoe) (See NOTE 1) (Consists of -			
	1	BOLT 21 176 R1			
	1	BOLT 21 329 R1			
	1	BOLT 24 859 R1			
	4	BOLT 25 007 R1			
	2	BOLT 186 277			
	2	BOLT 211 216 R1			
	1	BOLT 236 485 R1			
	1	BRACKET 709 314 C1			
	1	CABLE 822 999 C1			
	1	CABLE 624 647 C1			
	1	CABLE 663 113 C1			
	1	CABLE 706 063 C1			
	2	CLIP 276 956 R91			
	3	CLAMP 299 609 C1			
	1	GUARD 663 061 C1			
	2	GROMMET 617 259 C1			
	3	LAMP 625 657 C91			
	2	NUT 21 330 R1			
	6	NUT 25 526 R1			
	2	NUT 102 635			
	1	PAD 668 460 C1			
	3	SWIVEL 303 706 R1			
	3	WASHER 25 645 R1			
	4	WASHER 25 846 R1			
	2	WASHER 111 328			
	1	WASHER 116 121			
	4	WASHER 120 383			
	4	WASHER 120 384			

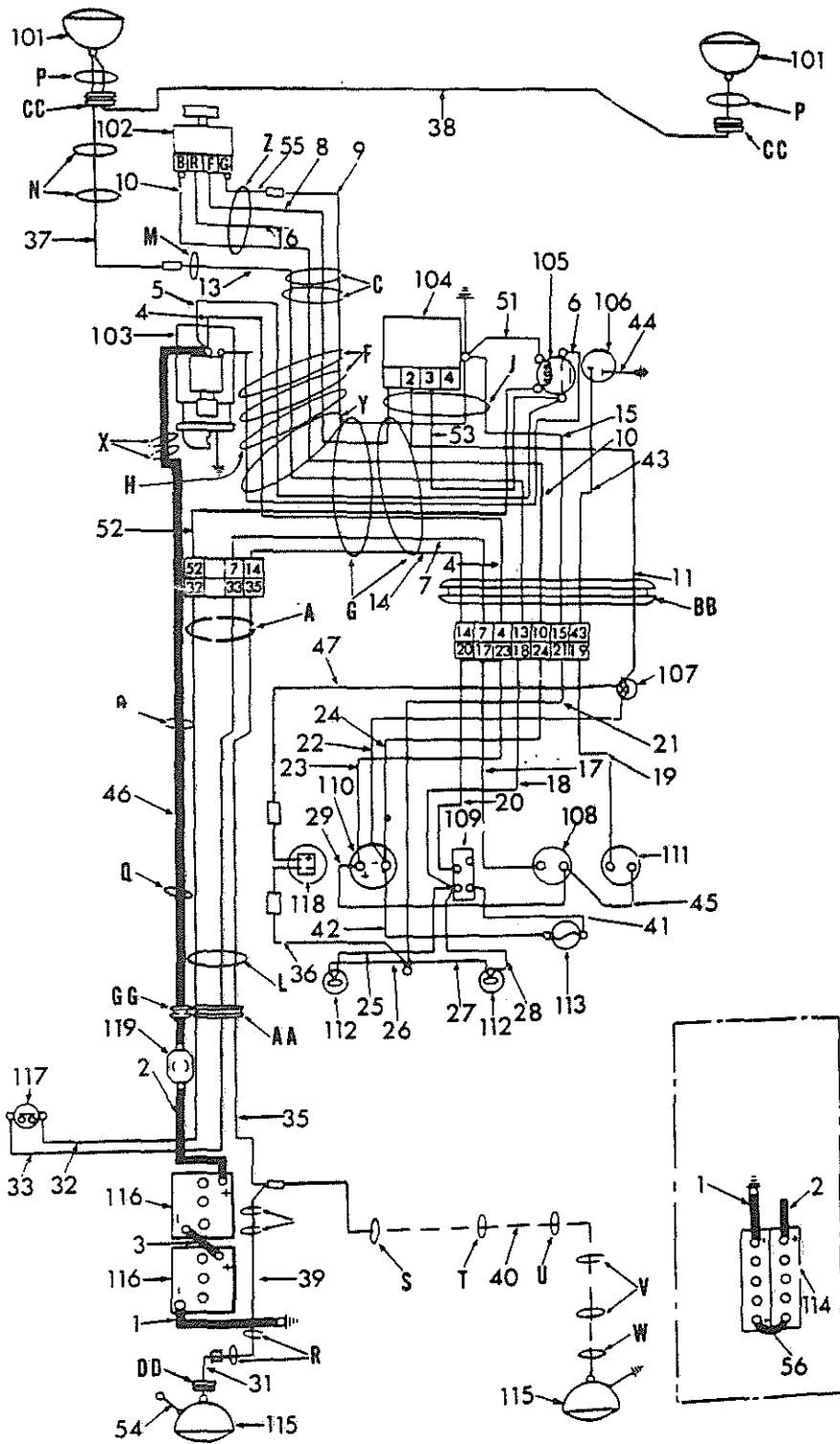
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ELECTRICAL

MEMORANDA

ELECTRICAL

ELECTRIC STARTING AND LIGHTING
(6063 and up)



CE-113379A

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRICAL STARTING AND LIGHTING - Continued (6063 and up)			18		CABLE, dash connector single to "H" terminal on light switch (Dark green)(Part of instrument panel HARNESS)
<u>CABLES</u>					
1	330 823 R91	CABLE, negative terminal on battery to ground	19		CABLE, ether starting switch to dash connector (Pink)(Part of instrument panel HARNESS)
	179 839	SCREW, hex-hd cap			
	180 358	WASHER, lock (2)			
2	703 056 C2	CABLE, positive terminal on battery to master switch	20		CABLE, dash connector to "R" terminal on light switch (Dark blue) (Part of instrument panel HARNESS)
3	621 821 C2	CABLE, battery to battery (Not cold starting)	21		CABLE, dash connector to ground screw on instrument panel (Black) (Part of instrument panel HARNESS)
4		CABLE, "B" terminal on solenoid to dash connector (Red)(Part of dash HARNESS)	22		CABLE, engine oil pressure switch to negative terminal on ammeter (Yellow)(Part of instrument panel HARNESS)
5		CABLE, "B" terminal on solenoid to magnetic switch (Orange)(Part of dash HARNESS)	23		CABLE, dash connector to positive terminal on ammeter (Red)(Part of instrument panel HARNESS)
6		CABLE, "S" terminal on solenoid to magnetic switch (White)(Part of dash HARNESS)	24		CABLE, dash connector to negative terminal on ammeter (Brown)(Part of instrument panel HARNESS)
7		CABLE, safety switch connector to dash connector (White)(Part of dash HARNESS)	25		CABLE "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
8		CABLE, "F" terminal on alternator to "F" terminal on regulator (Light green)(Part of dash HARNESS)	26		CABLE, instrument panel ground screw to instrument panel lamp (Part of instrument panel lamp)
9		CABLE, alternator "G" terminal connector to mounting bolt of regulator (Black)(Part of dash HARNESS)	27		CABLE, instrument panel ground screw to instrument panel lamp (Part of instrument panel lamp)
10		CABLE, "B" terminal on alternator to dash connector (Brown)(Part of dash HARNESS)	28		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
11		CABLE, No. 2 terminal on regulator to engine oil pressure switch (Light blue)(Part of dash HARNESS)	29	266 098 R91	CABLE, positive terminal on ammeter to start switch
13		CABLE, front lamp connector to dash connector (Dark green)(Part of dash HARNESS)	31	709 063 C1	CABLE, armored (LH rear lamp to connector w/ROPS canopy)(Part of ATTACHMENTS, 632 660 C91, 632 661 C91, 706 273 C91, 706 274 C91)
14		CABLE, safety switch connector to dash connector (Dark blue)(Part of dash HARNESS)	31	709 064 C1	CABLE, armored (LH rear lamp to connector w/o ROPS canopy)
15		CABLE, mounting bolt of regulator to dash connector (Black)(Part of dash HARNESS)	32		CABLE, safety starting switch to safety switch connector (White) (Part of safety starting switch HARNESS)
16		CABLE, "R" terminal on alternator to dummy cable (Black)(Part of dash HARNESS)	33		CABLE, safety starting switch to safety switch connector (White) (Part of safety starting switch HARNESS)
17		CABLE, dash connector to starting switch (White)(Part of instrument panel HARNESS)			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6063 and up)			53		CABLE, No. 3 terminal on regulator to magnetic switch (Orange)(Part of dash HARNESS).
CABLES - Continued			54	622 999 C1	CABLE, lamp connector bottom hole of LH ROPS rear post to-hole on battery box (Part of ATTACHMENTS; 632 660 C91 and 706 274 C91)
35		CABLE, rear lamp connector to safety switch connector (Dark blue) (Part of safety starting switch HARNESS)		21 176 R1	BOLT, 3/4" long
36	709 268 C1	CABLE, ground screw on instrument panel to negative terminal on hour-meter connector		211 216 R1	BOLT, 4" long
37	621 834 C1	CABLE, front lamp connector to LH front lamp (Part of ATTACHMENTS 632 660 C91 and 632 661 C91)		21 330 R1	NUT (2)
37	624 647 C1	CABLE, front lamp connector to LH front lamp (Part of ATTACHMENTS 706 273 C91 and 706 274 C91)		25 645 R1	WASHER, hardened
38	703 060 C1	CABLE, LH front lamp to RH front lamp (Part of ATTACHMENTS 632 660 C91 and 632 661 C91)	55	650 894 C1	CABLE, alternator "G" terminal to connector (Used w/HARNESS, 709 270 C1)
38	663 113 C1	CABLE, LH front lamp to RH front lamp (Part of ATTACHMENTS 706 273 C91 and 706 274 C91)	56	266 854 R92	CABLE, battery to battery (Cold starting)
39		CABLE, LH rear lamp to rear lamp connector (Dark blue)(Part of safety starting switch HARNESS)	MAIN COMPONENTS		
40	621 844 C1	CABLE, rear lamp connector to RH rear lamp (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91)	101		LIGHT, LH and RH front (Refer to "Headlight and Rear Light")
41	604 893 C91	CABLE, fuse housing to "B" terminal on light switch	102		ALTERNATOR ASSY (Refer to "Alternator")
42	621 813 C1	CABLE, fuse housing to negative terminal on ammeter	103		MOTOR ASSY, cranking (Refer to "Cranking Motor")
43		CABLE, ether injector to dash connector (Pink)(Part of dash HARNESS)	104		REGULATOR ASSY, voltage (Refer to "Voltage Regulator")
44		CABLE, ether injector to ether injector mounting bolt (Black)(Part of dash HARNESS)	105	706 124 C2	Switch, magnetic
45	266 098 R91	CABLE, ether starting switch to start switch		25 222 R1	SCREW, hex-hd cap (2)
46	622 189 C1	CABLE, master switch to "B" terminal on solenoid		115 109	WASHER, lock (2)
47	709 267 C1	CABLE, engine oil pressure switch to positive terminal of hourmeter connector (Red)		120 214	WASHER, 5/16" lock (2)
51		CABLE, magnetic switch to regulator mounting bolt (Ground)(Part of dash HARNESS)		120 376	NUT, 5/16" (2)
52		CABLE, safety starting switch connector to magnetic switch (White) (Part of dash HARNESS)		120 217	WASHER, No. 10 lock (2)
				120 614	NUT, No. 10 (2)
			106		INJECTOR, electric ether (Refer to "Bracket and Nozzles")
			107		SWITCH, engine oil pressure and (Refer to "Instrument and Instrument Panel")
			108		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
			109		SWITCH, lighting (Refer to "Lighting Switch")
			110		AMMETER (Refer to "Instruments and Instrument Panel")
			111		SWITCH, ether starting (Refer to "Starting and Ether Starting Switch")
			112	621 774 C91	LAMP, instrument panel (2)
			113	376 852 R91	HOUSING, fuse
				432 664	FUSE
			114		BATTERIES (Cold starting)(Refer to "Batteries and Mounting")

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6063 and up)			R		CLIP, welded
<u>MAIN COMPONENTS - Continued</u>			S	311 500 R1	CLAMP, rear lamp cable (On top, second from left, front bolt of rear frame cover) (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91)
115		LIGHT ASSY, rear and auxiliary (Refer to "Headlight and Rear Light")	T	311 500 R1	CLAMP, rear lamp cable (On top, fifth from left, front bolt or rear frame cover) (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91)
116		BATTERIES (Refer to "Batteries and Mounting")	U	311 500 R1	CLAMP, rear lamp cable (On top, second from right, front bolt of rear frame cover) (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91)
117	621 771 C91	SWITCH, safety starting	V	320 180 R1	CLAMP, rear lamp cable (On front of seat back mounting bolts on angle welded to side of hydraulic box) (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91) (2)
118		HOURMETER (Refer to "Hour-meter")	W	299 609 C1	CLAMP, rear lamp cable (On LH tapped hole on rear of hydraulic tank) (Part of ATTACHMENTS, 668 352 C91 and 668 353 C91)
119		SWITCH, master (Refer to "Master Switch")	X	622 963 C1	CLIP, master switch to solenoid cable (On lower two inspection cover mounting bolts) (2)
<u>CLIPS AND CLAMPS</u>			Y	622 963 C1	CLIP, dash harness (On top LH side of torque converter rear housing)
A	267 787 R91	CLIP, safety start switch harness (On front mounting bolt of LH platform support)	Z	363 444 R1	CLIP, dash harness (On back of alternator pivot mounting bolt)
C	363 444 R1	CLIP, dash harness (On forward two crankcase bosses LH side)(2)		299 609 C1	CLIP (On RH rear hole on top of battery box) (Part of ATTACHMENTS, 632 660 C91, 632 661 C91, 706 273 C91, 706 274 C91)
	24 838 R1	BOLT		24 859 R1	BOLT
	115 093	WASHER, lock		25 526 R1	NUT
F	622 963 C1	CLIP, dash harness (On top two inspection cover mounting bolts)(2)		116 121	WASHER, lock
G		CLIP, welded		299 609 C1	CLIP, on bottom of rear lamp bracket (Part of ATTACHMENTS, 632 660 C91, 632 661 C91, 668 352 C91, 663 353 C91, 706 273 C91 and 706 274 C91)
H	363 660 R1	CLIP, battery cable and dash harness (On bottom LH side of dash)		211 216 R1	BOLT
	24 839 R1	BOLT		25 526 R1	NUT
	115 093	WASHER, lock		25 645 R1	WASHER, flat
	25 522 R1	NUT		299 609 C1	CLIP (On bottom hole on ROPS rear post) (Part of ATTACHMENTS, 632 660 C91, 932 661 C91, 706 273 C91, 706 273 C91, 706 274 C91)
J		CLIP, welded		20 654 R1	BOLT
L	363 444 R1	CLIP, safety starting switch harness (LH side of front frame)		102 637	NUT
	24 838 R1	BOLT		25 673 R1	WASHER, flat
	115 093	WASHER, lock		702 093 C1	STRAP, for unused cables (4)
M	384 554 R1	CLIP, dash harness (On LH outer upper bolt of crankcase front cover)			
N	366 460 R1	CLIP, front lamp cable (On fan shroud LH top and bottom mounting bolts on fan guard) (2)			
P	263 717 R91	CLIP, on lower inside mounting hole front lamp guards (Part of ATTACHMENTS, 632 660 C91 and 632 661 C91)(Replaces 622 967 C1) (2)			
P	276 956 R91	CLIP, on lower inside mounting hole front lamp guards (Part of ATTACHMENTS 706 273 C91 and 706 274 C91) (2)			
Q	622 963 C1	CLIP, master switch to solenoid cable (On two tapped blocks on LH side of front frame)(2)			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6063 and up)					
GROMMETS					
AA	63 323 D	GROMMET, lower RH corner battery box			1 BOLT 211 216 R1 3 BOLT 236 485 R1 4 BOLT 454 998 1 BRACKET 709 314 C1 1 CABLE 621 834 C1 1 CABLE 622 999 C1 1 CABLE 703 060 C1 1 CABLE 709 063 C1 3 CLAMP 299 609 C1 2 CLIP 263 717 R91 1 GROMMET 617 259 C1 2 GROMMET 53 324 R1 2 GUARD 668 262 C1 3 LAMP 625 657 C1 8 NUT 21 330 R1 2 NUT 25 526 R1 3 SWIVEL 303 706 R1 6 WASHER 25 645 R1 1 WASHER 116 121 4 WASHER 120 384 3 WASHER 138 530 5 WASHER 180 447)
BB	176 027 H1	GROMMET, dash (Near center)			
CC	53 324 R1	GROMMET (On LH and RH side of radiator guard) (Part of ATTACHMENTS, 632 660 C91 and 632 661 C91) (2)			
CC	117 962	GROMMET, on radiator guard header (Part of ATTACHMENT, 706 274 C91)			
CC	617 259 C1	GROMMET, on radiator guard header (Part of ATTACHMENT, 706 274 C91)			
DD	617 259 C1	GROMMET, top rear of battery box cover (Part of ATTACHMENTS, 632 660 C91, 632 661 C91, 706 273 C91 and 706 274 C91)	632 661 C91		ATTACHMENT, electric lighting (For use w/ROPS canopy w/backhoe (See NOTE 1) (Consists of - 1 BOLT 24 859 R1 1 BOLT 211 216 R1 3 BOLT 236 485 R1 8 BOLT 454 998 1 CABLE 621 834 C1 1 CABLE 703 060 C1 1 CABLE 709 063 C1 3 CLAMP 299 609 C1 2 CLIP 263 717 R91 1 GROMMET 617 259 C1 2 GROMMET 53 324 R1 3 GUARD 668 262 C1 3 LAMP 625 657 C91 6 NUT 21 330 R1 2 NUT 25 526 R1 1 PLATE 668 294 C1 3 SWIVEL 303 706 R1 3 WASHER 25 645 R1 1 WASHER 116 121 3 WASHER 220 384 3 WASHER 138 530 9 WASHER 180 447)
GG	52 062 D	GROMMET, lower RH corner battery box			
HARNESSES					
	709 270 C1	HARNESS, dash (Consists of cables 4 thru 16, 43, 44, 51, 52 and 53) (For mounting harness to cranking motor			
	25 522 R1	NUT, 3/8			
	120 614	NUT, No. 10 NF			
	120 382	WASHER, 3/8 lock			
	120 217	WASHER, No. 10 lock			
	120 614	For mounting harness to alternator			
	121 743	NUT, No. 10 NF			
	120 217	NUT, No. 12			
	121 744	WASHER, No. 10 lock			
	121 744	WASHER, No. 12 lock			
	621 820 C1	HARNESS, instrument panel (Consists of cables 17 thru 24)			
	120 361	NUT, No. 10 (2)			
	436 734	SCREW, No. 10			
	178 378	WASHER, No. 10 int-ext tooth lock (2)	668 352 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/ROPS canopy w/o backhoe) (See NOTE 3) (Consists of - 2 BOLT 20 288 R1 1 BOLT 20 654 R1 1 BOLT 179 890 1 BRACKET 709 314 C1 1 CABLE 621 844 C1 3 CLAMP 311 500 R1 2 CLAMP 320 180 R1 3 CLIP 299 609 C1 1 LAMP 625 657 C91 4 NUT 102 637 R1 1 NUT 120 378 1 SWIVEL 303 706 R1 3 WASHER 25 673 R1 1 WASHER 118 975 1 WASHER 120 384)
	120 217	WASHER, No. 10 lock			
	709 269 C1	HARNESS, safety starting switch (Consists of cables 32, 33, 35 and 39)			
MISCELLANEOUS					
	632 660 C91	ATTACHMENT, Electric lighting (For use w/ROPS canopy w/o backhoe) (See NOTE 1) (Consists of - 1 BOLT 21 176 R1 2 BOLT 21 329 R1 1 BOLT 24 859			

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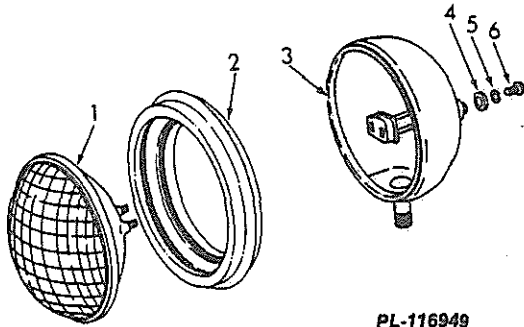
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6063 and up)			706 274 C91 ATTACHMENT, electric light (for use on machines equipped w/ROPS, sweeps w/o backhoe) (See NOTE 1)		
MISCELLANEOUS - Continued			(Consists of -		
668 353 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/ROPS canopy w/backhoe) (See NOTE 3)			1 BOLT 21 176 R1
		(Consists of -			1 BOLT 21 329 R1
		1 BOLT 20 654 R1			1 BOLT 24 859 R1
		4 BOLT 179 881			4 BOLT 25 007 R1
		1 BOLT 179 890			2 BOLT 186 277
		1 CABLE 621 844 C1			2 BOLT 211 216 R1
		3 CLAMP 311 500 R1			1 BOLT 236 485 R1
		2 CLAMP 320 180 R1			1 BRACKET 709 314 C1
		3 CLIP 299 609 C1			1 CABLE 622 999 C1
		1 GUARD 668 262 C1			1 CABLE 624 647 C1
		1 LAMP 625 657 C91			1 CABLE 663 113 C1
		2 NUT 102 637			1 CABLE 709 063 C1
		1 NUT 120 378			2 CLIP 276 956 R91
		1 PLATE 668 294 C1			3 CLIP 299 609 C1
		1 SWIVEL 303 706 R1			1 GUARD 663 061 C1
		1 WASHER 25 673			2 GROMMET 167 259 C1
		5 WASHER 118 975			3 LAMP 625 657 C91
		1 WASHER 120 384)			2 NUT 21 330 R1
706 412 C91		ATTACHMENT, electric rear light (For use w/ROPS w/rear screen, w/o backhoe) (See NOTE 1)			6 NUT 25 526 R1
		(Consists of -			2 NUT 102 635
		1 LAMP 668 292 C91			1 PAD 668 460 C1
		1 NUT 21 330 R1			3 SWIVEL 303 706 R1
		1 WASHER 102 384)			3 WASHER 25 645 R1
706 273 C91		ATTACHMENT, electric light (For use on machine equipped w/backhoe, ROPS, sweeps) (See NOTE 1)			4 WASHER 25 846 R1
		(Consists of -			2 WASHER 111 328
		1 BOLT 24 859 R1			1 WASHER 116 121
		4 BOLT 25 007 R1			4 WASHER 120 383
		3 BOLT 186 277			4 WASHER 120 384
		1 BOLT 211 216 R1			3 WASHER 138 530
		4 BOLT 454 998			1 WASHER 180 447)
		1 CABLE 624 647 C1	104 941		CORK, No. 5 head lamp guard mounting hole (On radiator guard) (Not used on models equipped with headlights) (4)
		1 CABLE 663 113 C1	106 623		CORK, No. 8 front lamp cable grommet hole (On radiator guard) (Not used on models equipped with headlights) (2)
		1 CABLE 709 063 C1			
		2 CLIP 76 956 R91			
		3 CLAMP 299 609 C1			
		1 GROMMET 117 962			
		1 GROMMET 167 259 C1			
		1 GUARD 663 061 C1			
		1 GUARD 668 262 C1			
		3 LAMP 625 657 C91			
		2 NUT 25 526 R1			
		3 NUT 21 330 R1			
		3 NUT 102 635			
		1 PAD 668 460 C1			
		1 PLATE 668 294 C1			
		3 SWIVEL 303 706 R1			
		1 WASHER 25 645 R1			
		4 WASHER 25 846 R1			
		3 WASHER 111 328			
		1 WASHER 116 121			
		4 WASHER 120 383			
		3 WASHER 120 384			
		3 WASHER 138 530			
		4 WASHER 180 447)			

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ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION
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HEAD LIGHT AND REAR LIGHT

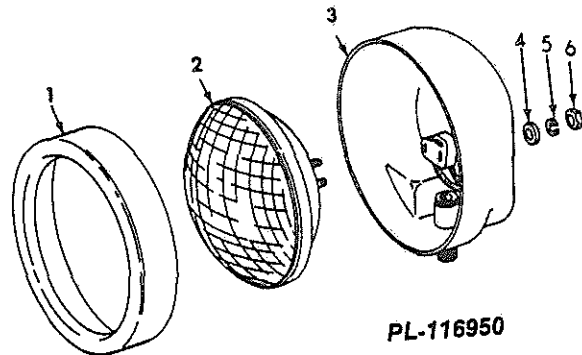


PL-116949

A	668 292 C1	LIGHT ASSY., rear (Part of ATTACHMENT, 706 412 C91)
	21 330 R1	NUT
	120 384	WASHER, lock
B	625 657 C91	LIGHT ASSY., Front and rear (Part of 632 660 C91, 632 661 C91, 706 273 C91, ATTACHMENT, 706 274 C91 and 715 510 C91) (3) (Optional w/LIGHT, 621 827 C91) (3)
	21 330 R1	NUT (3)
	120 384	WASHER, lock (3)
C	625 657 C91	LIGHT ASSY., RH rear auxiliary (Part of ATTACHMENT 668 352 C91 and 668 353 C91) (Optional w/LIGHT, 621 827 C91)
	120 378	NUT
	120 384	WASHER, lock (Composed of -
1	27 133 R1	UNIT, sealed (12 volt) (A)
1	373 662 R91	UNIT, sealed (12 volt) (B and C) (Replaces 21 521 R1)
2	631 595 C1	RETAINER, sealed unit (A)
2	625 679 C1	RETAINER, sealed unit (B and C)
3	\$	BODY
4	\$	WASHER, lock
5	138 530	WASHER, lock (Not Part of LIGHT ASSY)
6	\$	SCREW

REF. NO.	PART NUMBER	DESCRIPTION
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HEADLIGHT AND REAR LIGHT



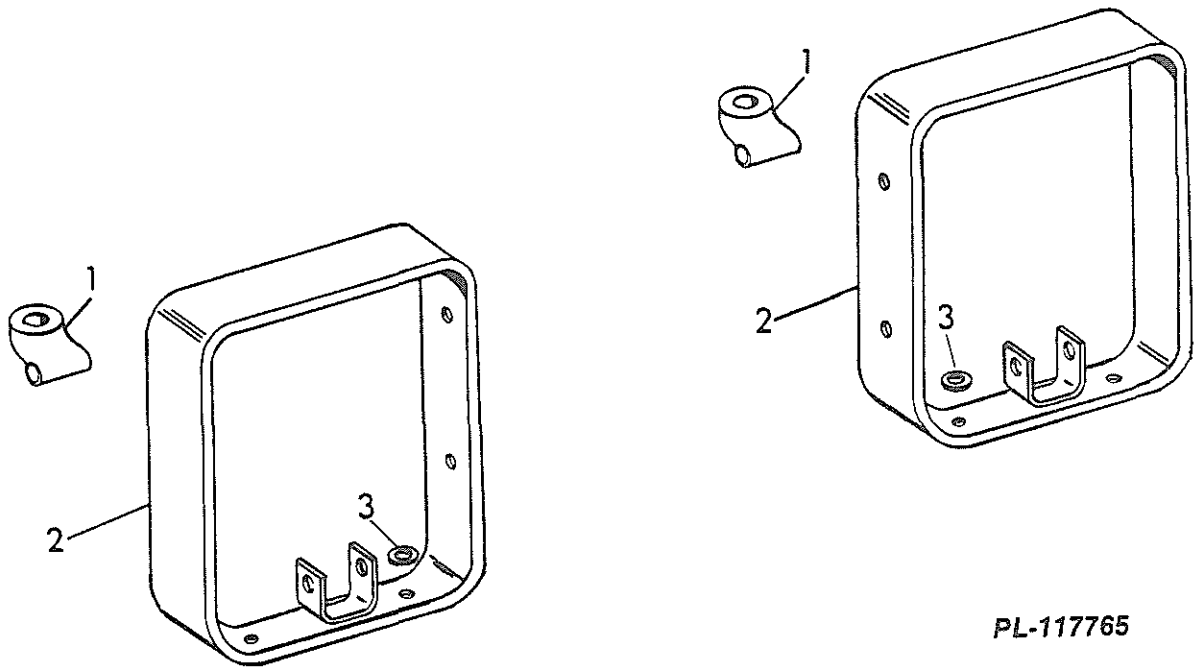
PL-116950

A	621 827 C91	LIGHT ASSY., Front and rear (Part of ATTACHMENT 632 660 C91, 632 661 C91, 706 273 C91, 706 274 C91 and 715 510 C91) (Optional w/LIGHT 625 657 C91) (3)
	21 330 R1	NUT (3)
	120 384	WASHER, lock (3)
B	621 827 C91	LIGHT ASSY., RH near auxiliary (Part of ATTACHMENT, 668 352 C91 and 668 353 C91) (Optional w/625 657 C91)
	21 330 R1	NUT
	120 384	WASHER, lock (Composed of -
1	676 078 R1	RETAINER, light
2	373 662 R91	UNIT, sealed (12 volt) (Replaces 21 521 R1)
3	\$	BODY
4	\$	WASHER, lock
5	138 530	WASHER, lock (Not Part of LIGHT ASSY)
6	\$	NUT

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FRONT LAMP GUARDS
(Part of ATTACHMENT, 632 660 C91 and 632 661 C91)



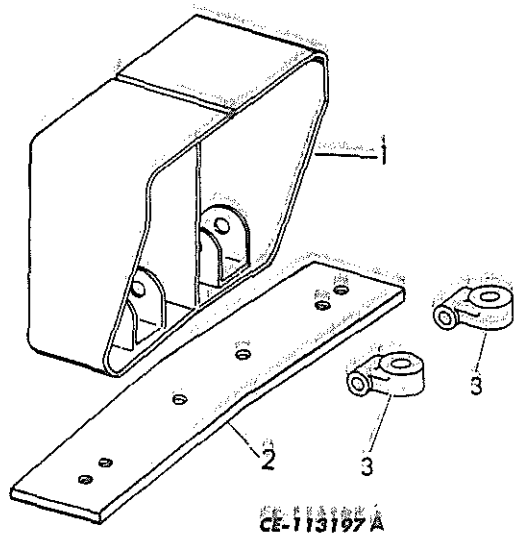
PL-117765

1	303 706 R1	SWIVEL, lamp (2)
	236 485 R1	BOLT (2)
	21 330 R1	NUT (2)
	180 447	WASHER, lock (2)
2	668 262 C1	GUARD, lamp (2)
	454 998	BOLT (4)
	21 330 R1	NUT (4)
	180 447	WASHER, lock (4)
3	25 645 R1	WASHER, flat (For CLIP, 632 967 C1) (2)

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FRONT LAMP GUARD
 (Part of Attachment 706 273 C91 and
 706 274 C91)

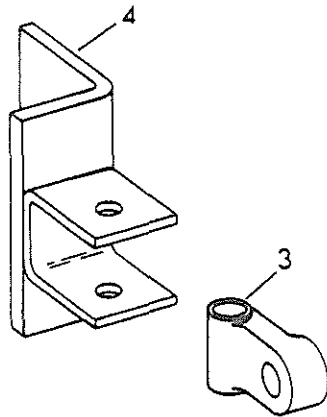
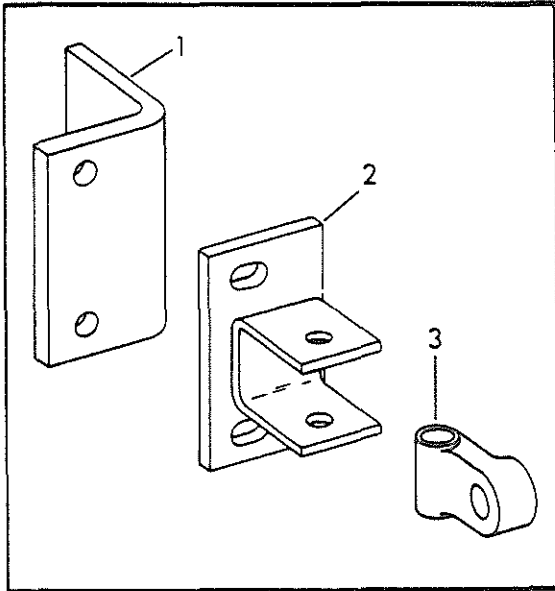


1	663 061 C1	GUARD, front lamp
	25 007 R1	BOLT (4)
	120 383	WASHER, lock (4)
	25 846 R1	WASHER, flat (4)
2	668 460 C1	PAD, lamp guard mounting
3	303 706 R1	SWIVEL, lamp (2)
	186 277	BOLT (2)
	102 635	NUT (2)
	111 328	WASHER, lock (2)

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LH REAR LAMP MOUNTING
 (Part of ATTACHMENT 632 660 C91 and 706 174 and 706 274 C91)



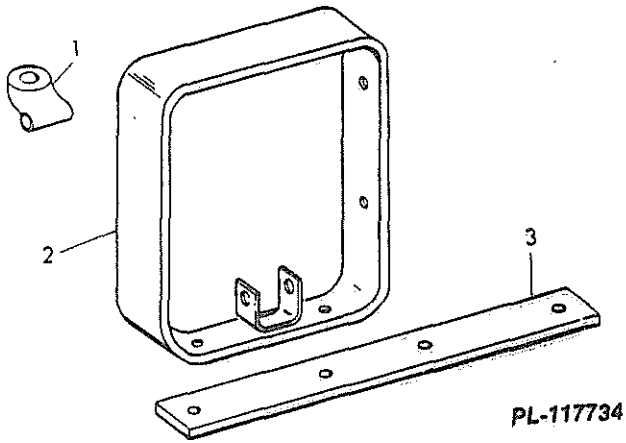
PL-117733

1	668 456 C1	BRACKET, rear lamp mounting 6275 and below	3	303 706 R1	SWIVEL, lamp
	20 288 R1	BOLT (2)		236 485 R1	BOLT
	102 637 R1	NUT (2)		21 330 R1	NUT
	25 673 R1	WASHER (2)		180 447	WASHER, lock
2	651 948 C1	BRACKET, rear lamp mounting 6275 and below	4	709 314 C1	BRACKET, rear lamp mounting 6276 and up
	20 834 R1	BOLT (2)		21 329 R1	BOLT (2)
	541 437 R1	WASHER (2)		21 330 R1	NUT (2)
				25 645 R1	WASHER (2)

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LH REAR LAMP GUARD
 (Part of Attachment 632 661 C91 and 706 273 C91)



1	303 706 R1	SWIVEL, lamp (Part of ATTACHMENT, 632 661 C91)
	236 485 R1	BOLT
	21 330 R1	NUT
	180 447	WASHER, lock
1	303 706 R1	SWIVEL, lamp (Part of ATTACHMENT, 706 273 C91)
	186 277	BOLT
	102 635	NUT
		WASHER, lock
2	668 262 C1	GUARD, lamp (Part of ATTACHMENT, 632 661 C91)
	454 998	BOLT (2)
2	668 262 C1	GUARD, lamp (Part of ATTACHMENT, 706 273 C91)
	454 998	BOLT (2)
	180 447	WASHER, lock (2)
3	668 294	PLATE, rear lamp mounting
	454 998	BOLT (2)
	180 447	WASHER (2)

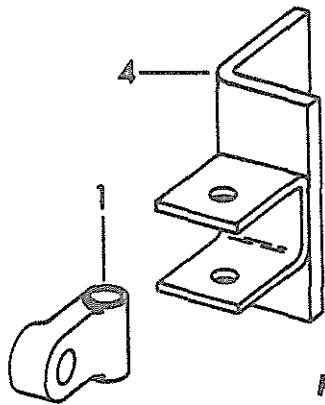
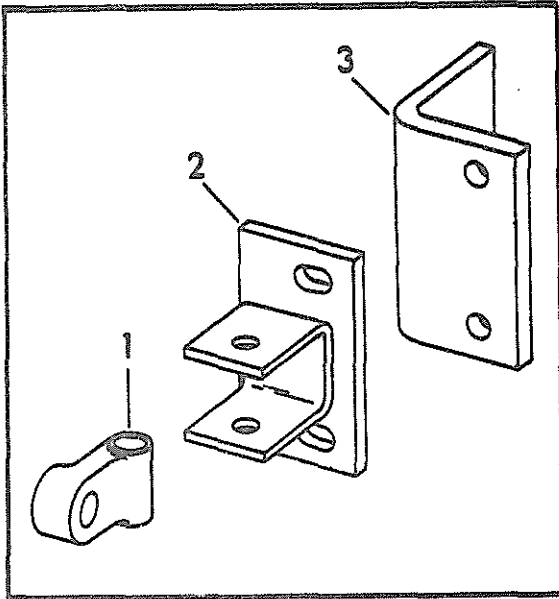
ELECTRICAL

MEMORANDA

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RH REAR LAMP MOUNTING
(Part of ATTACHMENT 668 352 C91)

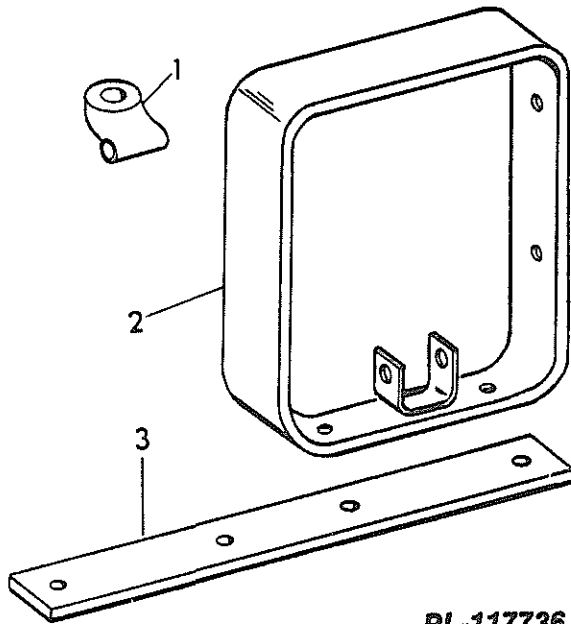


PL-117735

1	303 706 R1 179 890 102 637 118 975	SWIVEL, lamp BOLT NUT WASHER, lock	4	709 314 C1 20 288 R1 102 637 R1 25 673 R1	BRACKET, rear lamp mounting BOLT (2) NUT (2) WASHER (2) 6276 and up
2	651 948 C1 20 834 R1 541 437 R1	BRACKET, rear lamp mounting 6275 and below BOLT (2) WASHER (2)			
3	668 456 C1 20 288 R1 102 637 R1 25 673 R1	BRACKET, rear lamp mounting 6275 and below BOLT (2) NUT (2) WASHER (2)			

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RH REAR LAMP GUARD
(Part of ATTACHMENT 668 353 C91)



PL-117736

1	303 706 R1 179 890 102 637 118 975	SWIVEL, lamp BOLT NUT WASHER, lock
2	668 262 C1 179 881 118 975	GUARD, lamp BOLT (2) WASHER, lock (2)
3	668 294 C1 179 881 118 975	PLATE, rear lamp mounting BOLT (2) WASHER, lock (2)

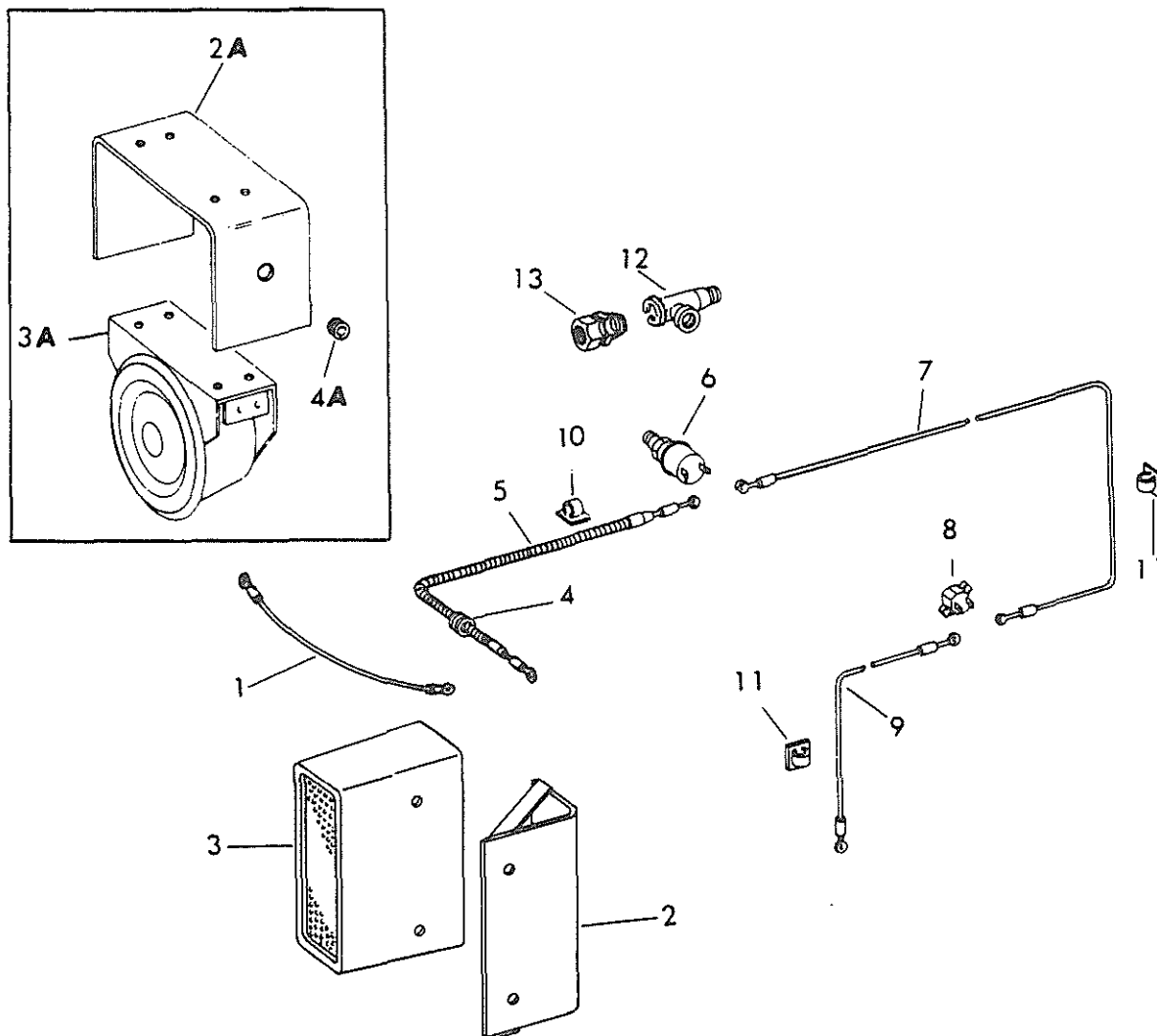
ELECTRICAL

MEMORANDA

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BACK-UP ALARM



PL-117737

	706 045 C91	ATTACHMENT, back-up alarm (See NOTE 1) (Consists of -	3	736 131 C1	ALARM, back-up (Used w/BRACKET 740 293 C1)
				27 606 R1	BOLT (2)
				25 534 R1	WASHER, flat (2)
1	266 770 R91	CABLE, alarm to alarm mounting bolt	3A	663 478 C1	ALARM, back-up (Used w/GUARD 663 484 C1)
2	740 293 C1	BRACKET, alarm mounting (Used w/ALARM, 715 662 C1)		179 795	BOLT (4)
	455 000	BOLT (2)		109 084	NUT (4)
	21 330 R1	NUT (2)		120 392	WASHER, flat (8)
	25 710 R1	WASHER, hardened (4)		103 319	WASHER, lock (4)
2A	663 484 C1	GUARD, assembly alarm (Used w/ALARM 663 478 C1)	4	109 390	GROMMET (On battery box) (Used w/BRACKET, 740 293 C1)
3	737 188 C1	ALARM, back-up (Used w/BRACKET 740 293 C1) (Replaces 715 662 C1)	4A	108 827 R1	GROMMET (On RH side of alarm guard) (Used w/GUARD 663 484 C1)
	OR		5	663 186 C1	CABLE, alarm to pressure switch

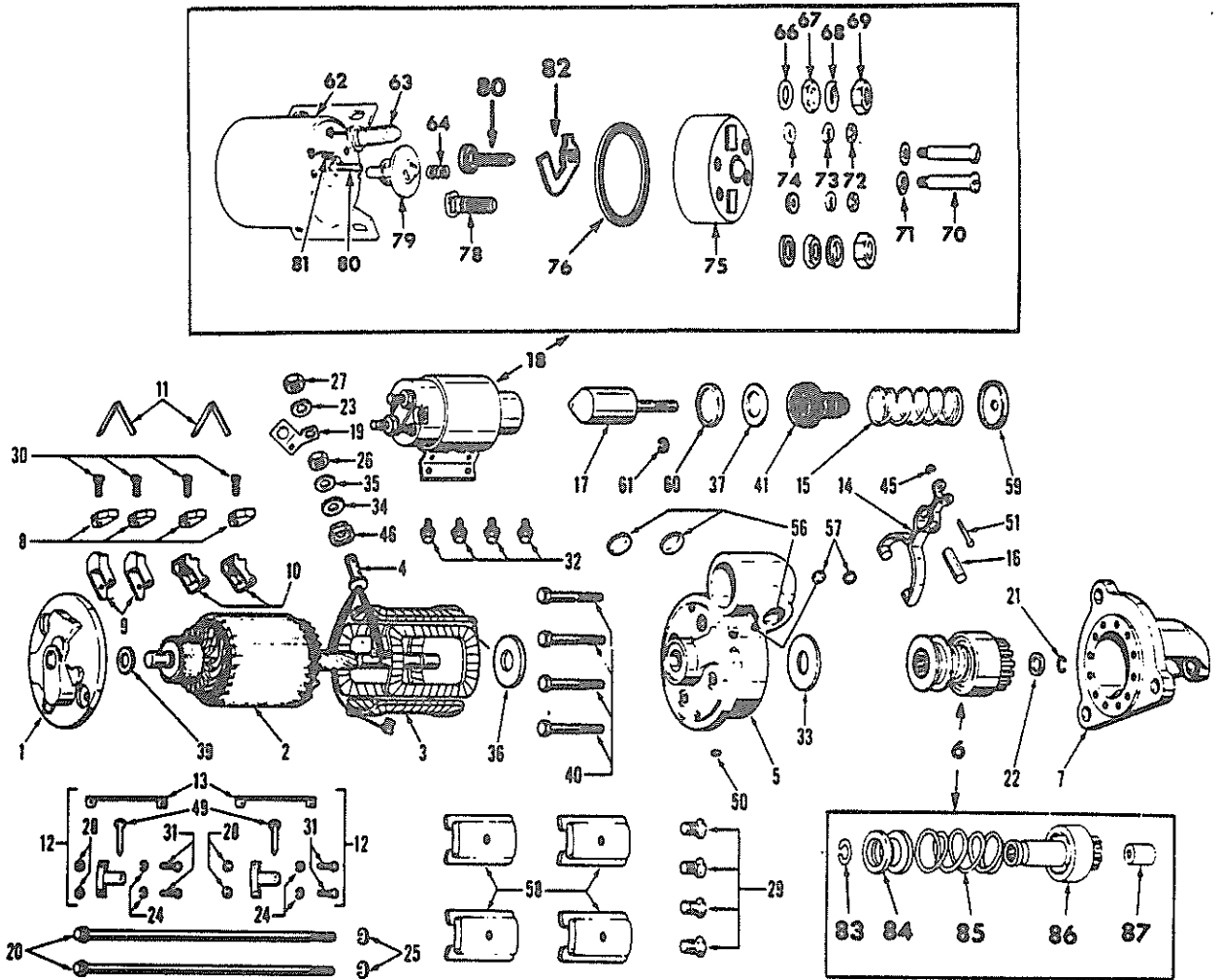
ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BACK-UP ALARM - Continued					
6	740 985 C1	SWITCH, pressure (Replaces 651 828 C1)			
7	663 187 C1	CABLE, pressure switch to circuit breaker			
8	740 150 C1	BREAKER, circuit (Replaces 683 072 C1)			
	110 495	SCREW, hex-hd cap (2)			
	106 497	WASHER, lock (2)			
	120 391	WASHER, flat (2)			
	110 633	NUT (2)			
9	663 187 C1	CABLE, circuit breaker to power source			
10	663 185 C1	CLAMP (10)			
11	663 189 C1	CLAMP (15)			
12	444 253	TEE, pressure switch			
13	294 134 R1	ADAPTER, swivel			
	663 188 C1	PACKAGE, terminals			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CRANKING MOTOR



CE-94872

1	113 690	MOTOR ASSY, cranking (12 volt) (Always Give CRANKING MOTOR ASSY NUMBER When Ordering Parts)	5	1942 241	HOUSING ASSY, lever (Composed of -
	140 483 H	SCREW, hex-hd cap (3)			1 BUSHING 1933 999
	115 093	WASHER, lock (3)			2 PLUG 9411 375
		(Composed of -			2 PLUG 9419 572
1	1945 617	FRAME ASSY, commutator end	6	1877 355	DRIVE ASSY, motor
2	1967 045	ARMATURE	7	1947 803	HOUSING w/PLUG, 9 427 882 and WICK, 1916 439, drive
3	1946 386	COIL w/STUD, 1 933 879, field (Four coils)	8	1906 987	BRUSH (4)
4	1933 879	STUD, terminal	9	1940 477	HOLDER, brush ground (2)
					1 PLUG 9427 882
					1 WICK 1947 350)

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR - Continued			39	1 914 842	WASHER, spacer, commutator end
10	1 950 546	HOLDER, brush insulated (2)	40	122 077	BOLT, drive housing attaching (4)
11	1 945 620	SPRING, brush (2)	41	801 077	BOOT
12	1 945 923	PACKAGE, brush support (2) (Consists of -	45	1 938 376	RING, lever attaching pin snap
	1	LEAD 1 930 694	46	1 931 783	BUSHING, insulating terminal stud
	2	NUT 120 361	49	1 938 058	PIN, brush holder (2)
	1	PIN 1 938 058	50	809 593	PIN, dowel, drive housing
	2	SCREW 445 639	51	1 942 253	PIN, lever attaching
	2	WASHER 453 435)	56	9 411 375	PLUG, expansion, lever housing (1-3/16" dia) (2)
13	1 930 694	LEAD, ground (2)	57	9 419 572	PLUG, expansion lever housing (1/2" dia) (2)
14	1 942 245	LEVER, shift	58	1 934 478	SHOE, pole (4)
15	1 948 521	SPRING, lever	59	1 948 526	RETAINER, spring (13/32" hole)
16	1 942 255	SHAFT, lever	60	1 942 256	RETAINER, spring (1-13/64" hole)
17	1 942 250	PLUNGER	61	9 415 235	RING, spring retainer snap
18	1 115 510	SWITCH ASSY, solenoid starting	62		CASE and COIL (Not Furnished Separately)
19	1 946 394	CONNECTOR, switch	63	1 956 427	STUD, motor terminal
20	1 883 865	BOLT, thru (2)	64	1 853 342	SPRING, contact return
21	1 928 022	RING, pinion stop retainer	66	805 790	WASHER, insulating terminal (2)
22	1 928 021	COLLAR, pinion stop	67	1 904 419	NUT, 3/8" terminal (2)
23	9 421 425	WASHER, lock, terminal stud	68	9 421 425	WASHER, 3/8" terminal lock (2)
24	453 435	WASHER, lock (4)	69	134 566	NUT, 3/8" terminal (2)
25	9 421 424	WASHER, thru bolt lock (2)	70	1 943 225	SCREW, cover attaching (2)
26	805 258	NUT, terminal stud (5/32" thick)	71	1 923 935	WASHER, cover attaching screw (2)
27	134 566	NUT, terminal stud (5/32" thick)	72	453 996	NUT, No. 8 hex terminal (2)
28	120 361	NUT (4)	72	453 284	NUT, No. 10 NF (2)
29	1 968 396	SCREW, pole shoe (4)	73	1 946 143	WASHER, No. 8 terminal lock
30	1 959 514	SCREW, brush attaching (4)	73	453 435	WASHER, No. 10 lock
31	445 639	SCREW (4)	74	1 950 071	WASHER, insulating
32	1 917 084	SCREW, switch attaching (4)	74	1 950 063	WASHER, insulating
33	821 453	WASHER, brake (Between lever hous- ing and motor drive)	75	1 965 624	COVER
34	1 950 029	WASHER, insulating terminal stud (2)	76	1 965 625	GASKET, cover
35	805 790	WASHER, terminal stud plain			
36	1 946 395	WASHER, space (Between lever hous- ing and armature)			
37	1 942 259	WASHER, retainer spring			

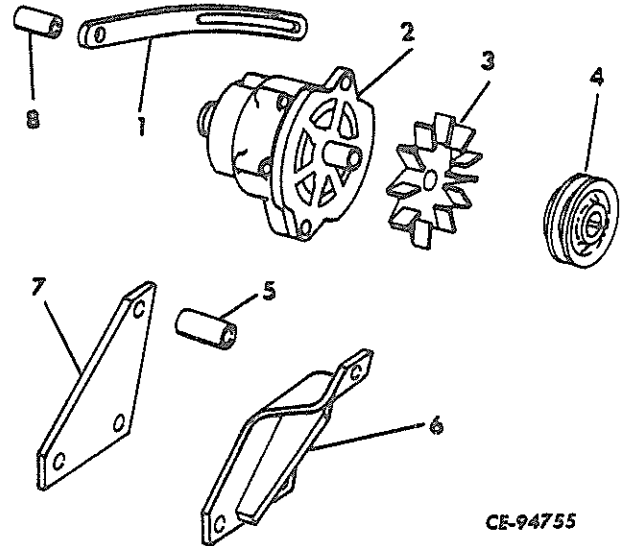
ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION
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CRANKING MOTOR - Continued

78	800 487	STUD, battery terminal
79	1 917 119	CONTACT and ROD
80	1 960 248	STUD, terminal switch
80	1 961 333	STUD, resistor or return terminal
81	1 958 278	CLIP, terminal
82	1 935 645	BLADE, contact
83	1 904 436	LOCKWIRE
84		COLLAR, motor drive (Not Furnished Separately)
85	801 198	SPRING, motor drive
86		GEAR and SHAFT (Not Furnished Separately)
87	1 873 796	BUSHING
	1 872 678	BUSHING, commutator end
	1 933 999	BUSHING, lever housing
	1 914 873	INSULATION, field coil
	134 566	NUT, connector attaching
	9 427 882	PLUG, commutator end pipe
	9 427 882	PLUG, drive end pipe
	9 427 882	PLUG, lever housing pipe (1/8" dia)
	810 819	PLUG, commutator end expansion
	9 421 425	WASHER, connector attaching nut
	815 540	WASHER, No. 8 lock
	1 856 056	WASHER, No. 10 lock
	1 950 064	WASHER, terminal stud sealing (2)
	1 916 439	WICK, oil (2)
	1 947 350	WICK, lever housing oil

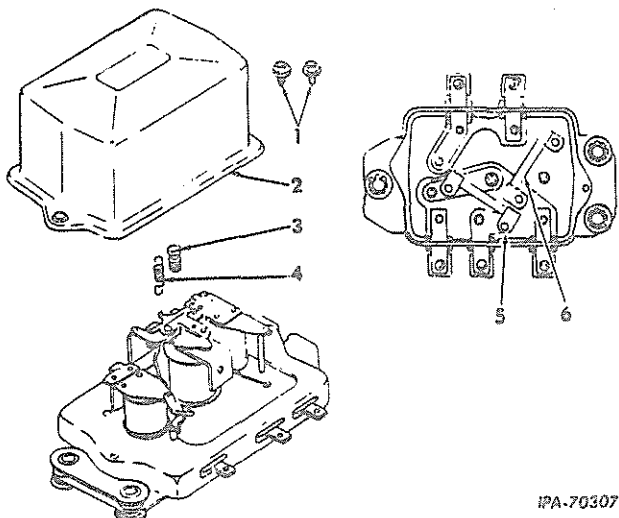
ALTERNATOR AND CONNECTIONS



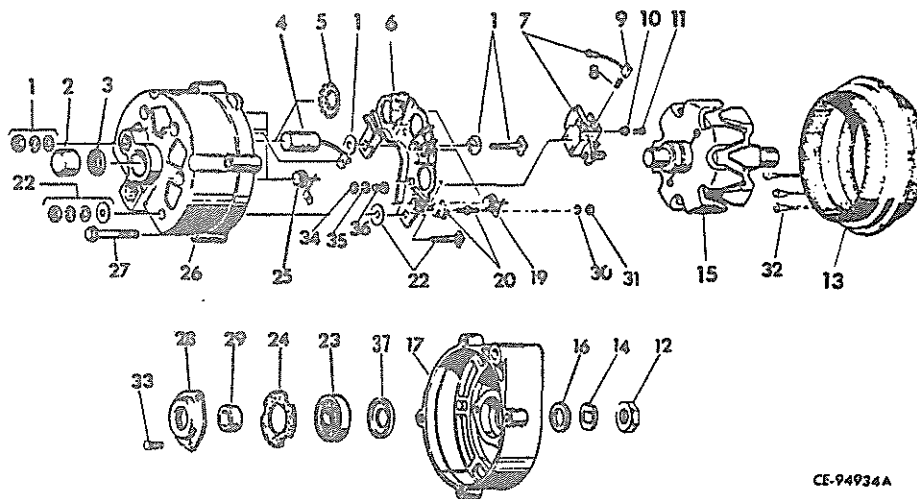
1	621 764 C1	BRACE, alternator
	26 031 R1	SCREW, 5/16" dia hex hd cap
	24 849 R1	SCREW, 7/16" dia hex hd cap
	116 120	WASHER, 5/16" lock
	115 314	WASHER, 7/16" lock
	280 185 R1	WASHER, flat
2		ALTERNATOR ASSY (Refer to "ALTERNATOR")
	24 817 R1	SCREW, 3/8" dia. hex hd cap
	25 709 R1	WASHER, 3/8" lock
	17 044 R1	NUT
	25 751 R1	SCREW, 5/16" dia hex hd cap
	25 708 R1	WASHER, 5/16" lock
3	221 425 R1	FAN, alternator
4	273 226 R1	PULLEY, alternator
	120 377	NUT
	25 500 R1	SCREW, hex hd cap
	115 093	WASHER, lock
5	621 769 C1	SPACER, alternator support
6	621 765 C1	BRACKET, alternator front
	277 732 R1	SCREW, hex hd cap (2)
	25 522 R1	NUT (2)
	115 093	WASHER, lock (2)
7	621 768 C1	BRACKET, alternator rear
8	359 105 R1	SPACER, alternator

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
VOLTAGE REGULATOR			1	119 513	REGULATOR w/PACKAGE, 1962 629 and REGULATOR ASSY, 119 507, voltage
				120 375	NUT (2)
				120 423	WASHER, int-tooth lock
				120 380	WASHER, lock (2)
			1	119 507	REGULATOR ASSY, voltage (Always Give VOLTAGE REGULATOR ASSY Number When Ordering Parts) (Consists of ref. nos. 1 thru 6) (Furnished as part of REGULATOR, 119 513)
			1	1943 386	SCREW, cover attaching (2)
			2	1958 151	COVER, regulator
			3	1958 148	SCREW, adjusting
			4	1958 137	SPRING, adjusting screw
			5	1941 431	RESISTOR
			6	1960 347	RESISTOR
				1962 629	PACKAGE, shock bracket
				9 421 423	WASHER, terminal screw lock

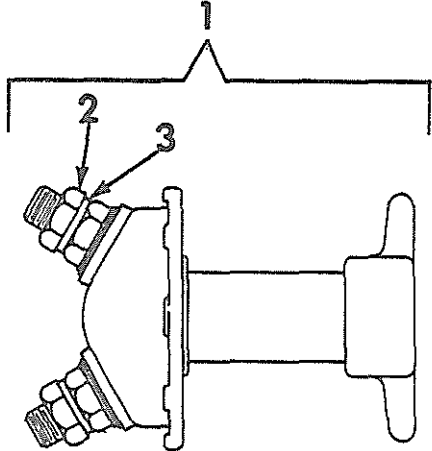


ALTERNATOR



1	100 812	ALTERNATOR ASSY (12V - 22 Amp.) (Always Give ALTERNATOR ASSY Number When Ordering Parts) (Composed of -	4	1959 455	CAPACITOR
		PACKAGE, ground terminal		1959 523	WASHER, capacitor screw insulator
1	1959 833		5	1960 750	RETAINER, capacitor retaining
2	7 451 763	BEARING, slip ring end			
3	1959 790	SEAL, slip ring end			

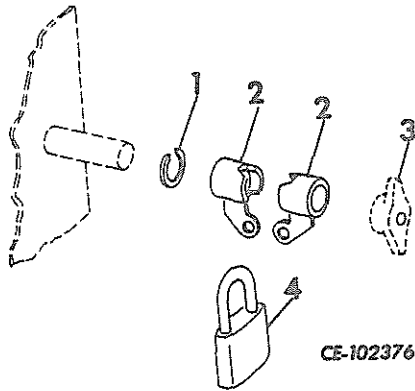
ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ALTERNATOR - Continued			34	815 540	WASHER, plain capacitor terminal screw
6	1 959 828	HEAT SINK ASSY (Composed of -	35	9 419 392	WASHER, capacitor terminal screw lock
		3 DIODE 1 964 353	36	132 768	SCREW, capacitor terminal
		1 NUT 453 434	37	800 832	SLINGER, grease
		1 TERMINAL PACKAGE 1 959 834		1 970 033	SEAL, slip ring end terminal
		1 WASHER 9 419 392)			
7	1 964 682	BRUSH HOLDER and BRUSH ASSY	<hr/>		
8	1 964 117	SPRING	MASTER SWITCH		
9		BRUSH (Not Furnished Separately)	 <p style="text-align: right;">CE-99944</p>		
10	1 959 389	INSULATOR, brush holder - screw			
11	1 957 501 9 419 392	SCREW, brush holder WASHER, spring, brush holder attaching screw			
12	1 915 172	NUT, shaft			
13	1 959 381	STATOR ASSY, w/three CLIP, 1 959 532			
14	1 941 978	WASHER, shaft nut drive end lock			
15	1 966 614	ROTOR ASSY			
16	1 959 991	COLLAR			
17	1 970 595	FRAME, drive end			
19	1 964 353	DIODE, positive (3)			
20	1 959 834	PACKAGE, terminal	1	728 154 C1	SWITCH ASSY, master
22	1 959 832	PACKAGE, battery terminal		25 519 R1	NUT (2)
23	904 751	BEARING, drive end		25 222 R1	SCREW, hex-hd cap (2)
24	1 912 008	GASKET		115 109	WASHER, lock (2)
25	1 964 354	DIODE, negative (3)	2	\$	NUT, terminal (2)
26	800 396	FRAME, slip ring - end (Composed of -	3	\$	WASHER, terminal nut lock (2)
		1 BEARING 7 451 763			
		3 DIODE 1 964 354			
		1 RETAINER 1 960 750			
		1 SEAL 1 959 790)			
27	1 956 975	BOLT (4)			
28	1 955 494	RETAINER ASSY			
29	1 963 139	COLLAR			
30	9 419 392	WASHER, lock			
31	453 434	NUT, diode junction terminal			
32	1 959 532	CLIP (3)			
33	1 965 104	SCREW (3)			

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION
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MASTER SWITCH LOCK AND PADLOCK WITH KEYS

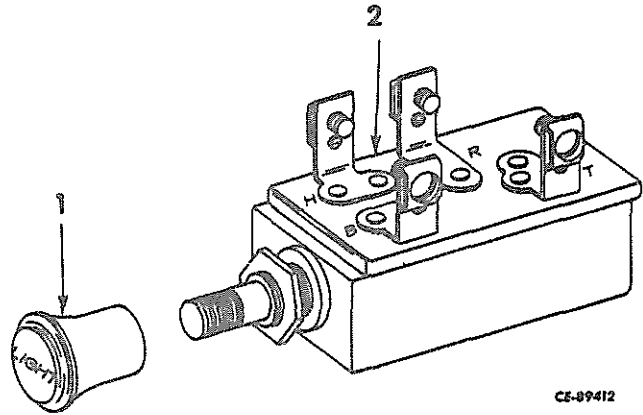


CE-102376

- 1 NOT USED
- 2 650 937 C1 SLEEVE, lock (2)
- 3 KNOB, master switch (Reference only)
- 4 650 382 C91 PADLOCK w/KEYS

REF. NO.	PART NUMBER	DESCRIPTION
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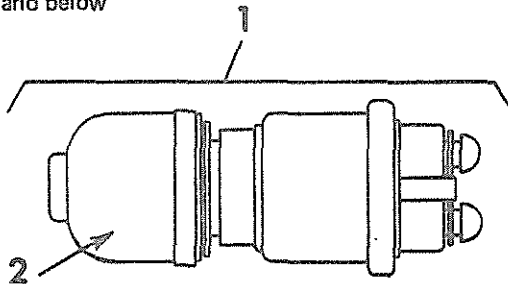
LIGHTING SWITCH



CE-89412

- 1 606 299 C91 KNOB, lighting switch
- 2 606 298 C91 SWITCH, lighting
131 718 WASHER, internal-tooth lock

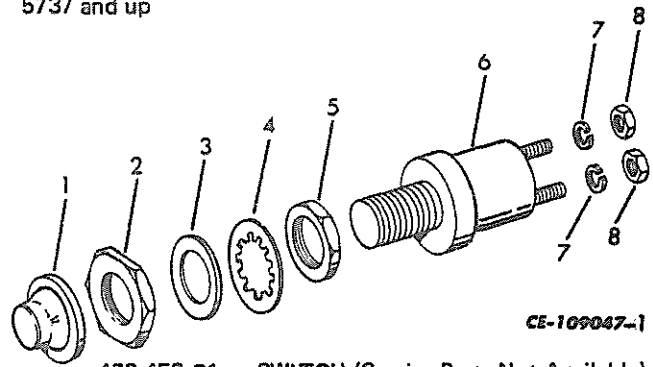
STARTING AND ETHER STARTING SWITCH
5736 and below



CE-89409

- 1 700 395 C91 SWITCH w/CAP and face NUT, 702 268 C1) (2)
- 2 702 268 C1 CAP and FACE NUT

STARTING AND ETHER STARTING SWITCH
5737 and up



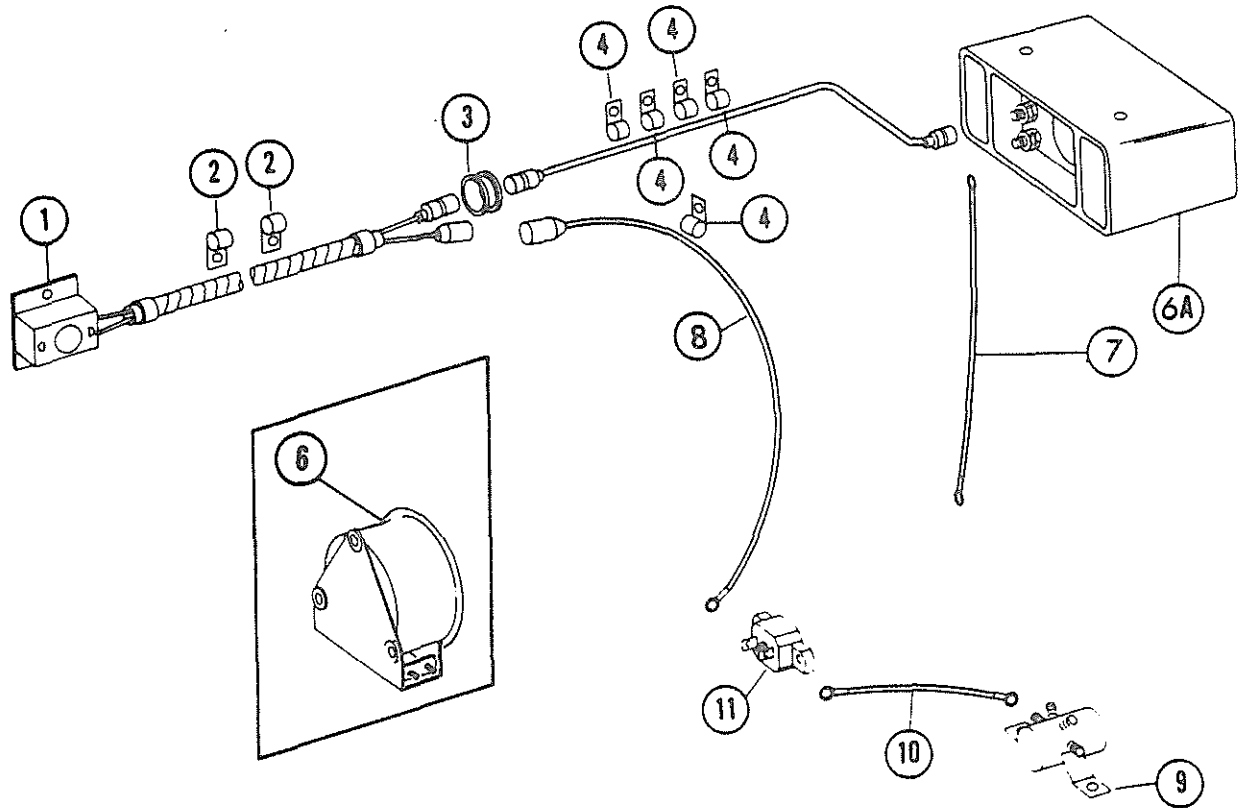
CE-109047-1

- 1 453 453 C1 SWITCH (Service Parts Not Available)
OR
1 996 098 SWITCH ASSY., starting
(Consists of the following parts -
CAP (Not Furnished Separately)
- 2 1 968 171 NUT
- 3 1 913 828 WASHER
- 4 138 557 WASHER, internal tooth lock
- 5 1 914 379 NUT, hex
- 6 BODY (Not Furnished Separately)
- 7 453 435 WASHER, terminal lock (2)
- 8 453 433 NUT, terminal hex (2)

ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ELECTRICAL WARNING HORN



CE-105841A

	663 104 C91	ATTACHMENT, electrical warning horn (See NOTE 1) (Consists of -	6A	737 365 C1	HORN warning (Replaces 740 363 C1)
1	663 101 C1	SWITCH, push button		189 295	BOLT (2)
	171 716	SCREW, pan-hd tapping (2)		21 622	NUT (2)
	120 217	WASHER, lock (2)		25 534 R1	WASHER (2)
2	362 121 R1	CLIP, cable (2)	7	663 063 C1	CABLE, alarm ground terminal to mounting bolt
3	617 259 C1	GROMMET	8	651 835 C1	CABLE, circuit breaker to push button switch ground
4	362 120 R1	CLIP, cable (5)		1 085 599 R2	PAMPHLET, installation
5	663 103 C1	CABLE, push button switch connector to horn terminal	9		SWITCH, magnetic (Not furnished as part of Attachment)
6	668 080 C1	HORN, warning	10	624 231 C1	CABLE, "H" terminal on magnetic switch to circuit breaker
	179 799	SCREW, hex-hd cap (4)			
	174 878	WASHER, lock (4)	11	740 150 C1	BREAKER, circuit (Replaces 683 072 C1)
	120 392	WASHER, flat (4)		110 495	SCREW, hex-hd cap (2)
	109 084	NUT (4)		106 497	WASHER, lock (2)
6A	736 130 C1	HORN, warning		120 391	WASHER (2)
	OR			110 633	NUT (2)

1

REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

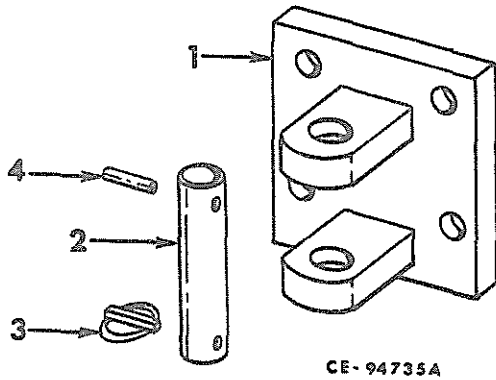
FRAME

9

FRAME

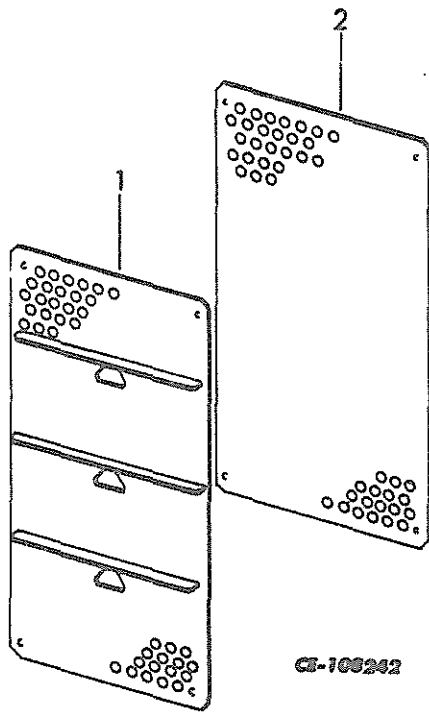
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RIGID DRAWBAR



A	621 786 C91	ATTACHMENT, rigid drawbar (For all models except backhoe and industrial equipped w/ripper) (See NOTE 1)
B	622 618 C91	ATTACHMENT, rigid drawbar (For backhoe and models equipped w/ripper) (See NOTE 1) (Consists of -
1	621 018 C1	DRAWBAR
	24 889 R1	BOLT (4 for A)
	25 515 R1	BOLT (4 for B)
	25 538 R1	WASHER (4 for A)
2	621 005 C1	PIN, drawbar clevis
3	621 006 C1	PIN, quick attaching
4	19 998 R1	PIN, coiled spring

HEAVY DUTY RADIATOR DOOR



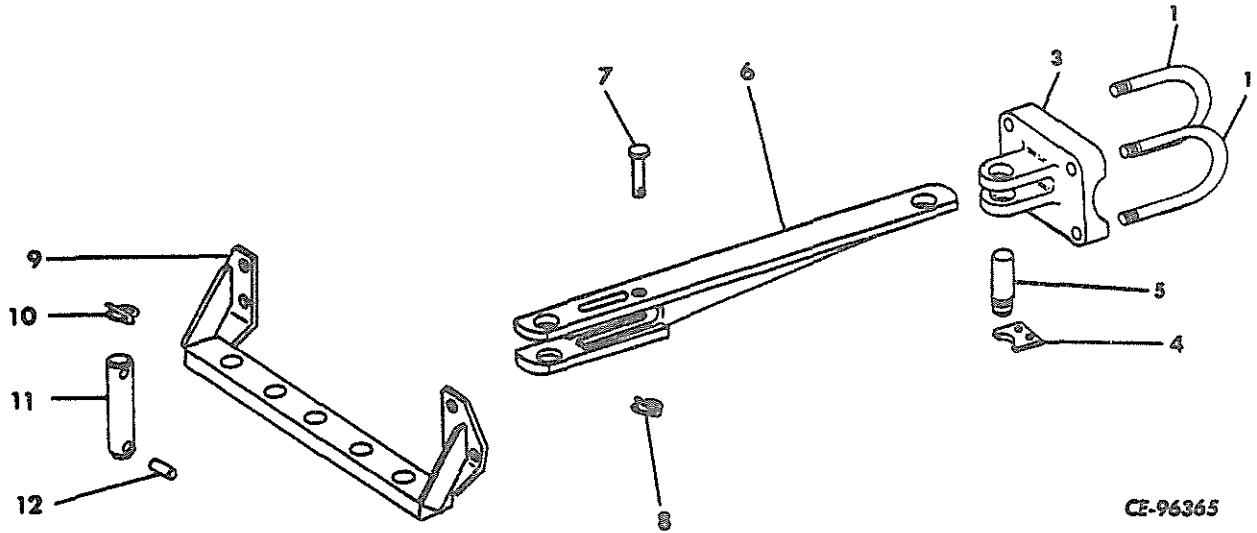
	706 089 C91	ATTACHMENT, heavy duty radiator door (Part of forestry package 632 757 C91) (See NOTE 1)
1	706 057 C91	DOOR, w/plate 706 058 C1, heavy duty radiator
	26 317 R1	BOLT (4)
2	706 058 C1	PLATE, rad. door lap

(Rev. No. 1)

FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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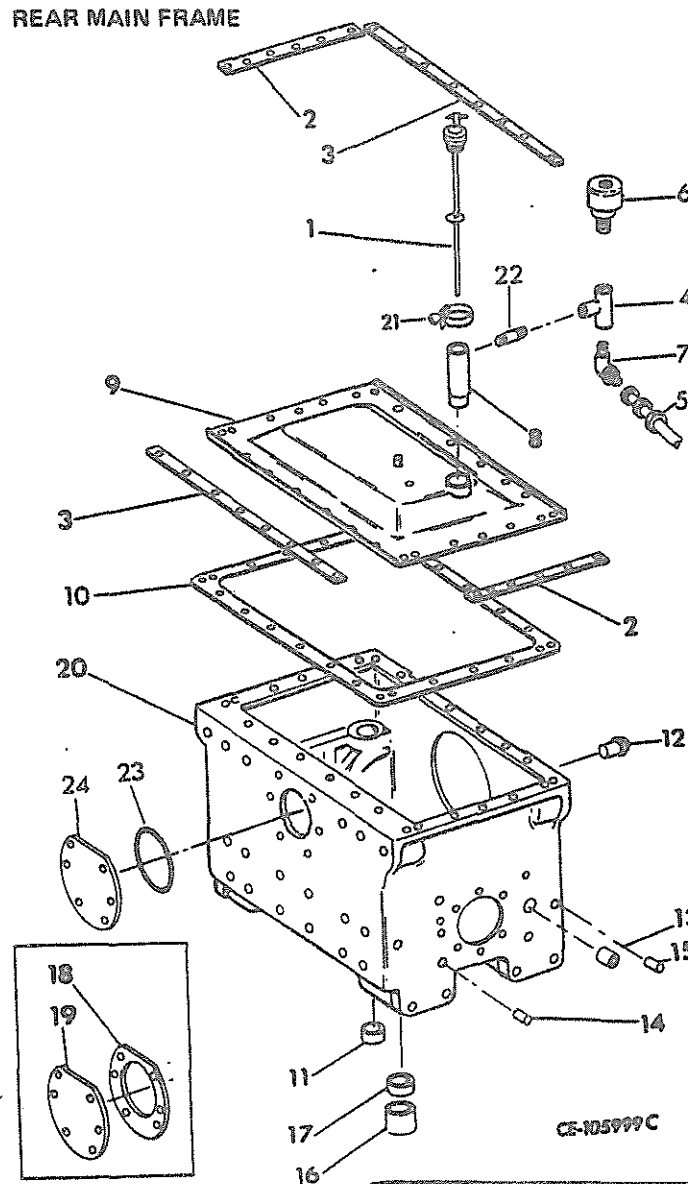
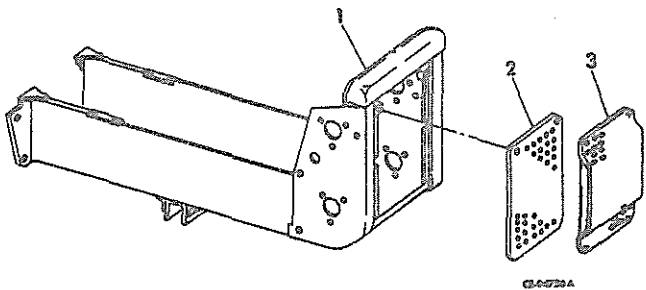
SWINGING DRAWBAR



	621 789 C91	ATTACHMENT, swinging drawbar (For all models except backhoe and industrial equipped w/ripper) (See NOTE 3) (Consists of -	6	621 000 C1	DRAWBAR, swinging
1	621 017 C1 25 528 R1	"U" BOLT, pivot bracket (2) NUT (4)	7	955 169 R1 103 347	PIN, drawbar stop WASHER
3	621 016 C1	BRACKET, drawbar pivot	8	373 025 R91	PIN, quick attaching
4	345 552 R1 115 093 25 840 R1	PLATE, pivot pin lock WASHER, lock (2) BOLT (2)	9	621 011 C1 24 888 R1	BRACKET, drawbar guide BOLT (6)
5	621 010 C1	PIN, drawbar pivot	10	621 006 C1	PIN, quick attaching
			11	621 005 C1	PIN, drawbar clevis
			12	19 998 R1	PIN, coiled spring

FRAME

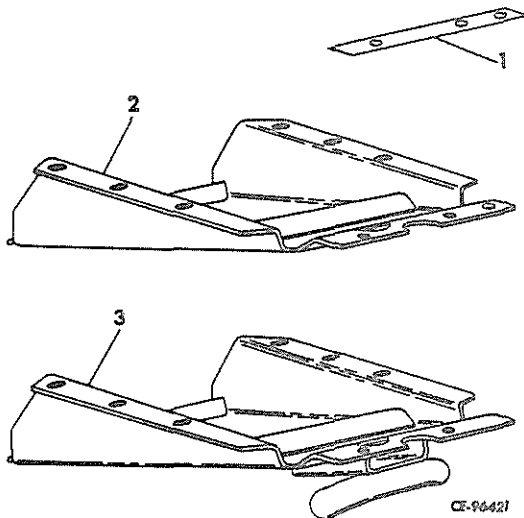
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FRONT FRAME			1		FRAME, front (Service frame will be available on special order only on clearance with engineering department)
				25 738 R1	SCREW, hex-hd cap (6)
			2	621 616 C1	DOOR, radiator guard (For all models except backhoe)
				26 316 R1	BOLT, (4)
				25 710 R1	WASHER, (4)
			3	645 267 C1	DOOR, radiator guard (For backhoe models)(Part of ATTACHMENT, 710 271 C91)
				26 316 R1	BOLT (4)
				116 121	WASHER, lock (4)
				103 343	WASHER (4)
REAR MAIN FRAME			1	621 569 C2	GAUGE, rear main frame oil level (Not for use w/LOCK)
			1	652 445 C1	GAUGE, rear main frame oil level (For use w/LOCK)
			2	621 575 C1	STIFFENER-side, rear main frame cover (2)
			3	621 576 C1	STIFFENER-front and rear, rear main frame cover (2)
			4	105 417	TEE, transmission vent tube
			5		TUBE, transmission vent (Refer to "Transmission Piping")
			6	666 134 C1	BREATHER, rear frame
				OR	
			6	662 250 C1	BREATHER, rear frame
				OR	
			6	666 156 C1	BREATHER, rear frame
			7		ELBOW, tube (Refer to "Transmission Piping")
			8	628 071 C2	TUBE, rear main frame oil filler
			9	621 565 C2	COVER, rear main frame
				24 841 R1	SCREW, hex-hd cap (26)
				25 534 R1	WASHER, hardened (26)
			10	717 260 C1	GASKET, rear main frame cover
			11	621 090 C91	BEARING, eccentric shaft (4)
			12	621 548 C2	TUBE, brake rod
			13	621 549 C1	INSERT, brake adjusting screw (2)
			14	621 546 C1	DOWEL, brake shoe (8)
			15	621 547 C1	DOWEL, sprocket drive (4)
			16	271 647 R1	PLUG, drain
			17	613 908 C1	PLUG, NPTF
			18	621 571 C1	GASKET, rear P.T.O. (Used w/COVER, 621 570 C1 only)



FRAME

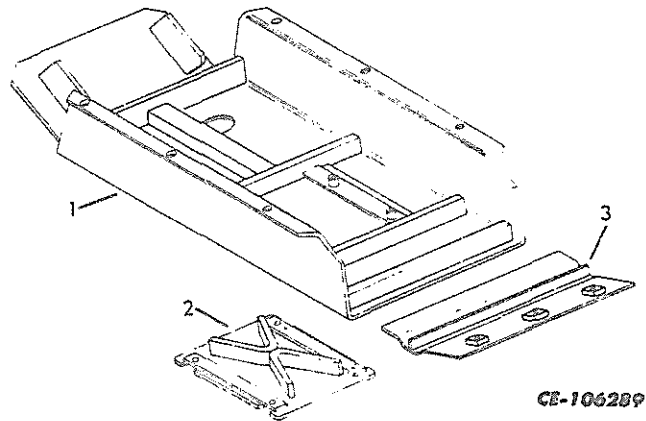
REF. NO.	PART NUMBER	DESCRIPTION
REAR MAIN FRAME - Continued		
19	621 570 C1 25 871 R1	COVER, rear P.T.O. (Order COVER, 733 040 C1, RING 259 190 R1 and six BOLT 26 957 R1) BOLT, hex-hd (6)
20	621 544 C93	FRAME ASSY, rear main (Order the following parts - 1 DRAWING IZG 9720 1 FRAME 733 288 C91 1 PLATE 733 233 C91 1 PLATE 733 234 C91 4 SPACER 733 227 C1)
20	733 288 C91	FRAME ASSY, rear main (Composed of - 4 BEARING 621 090 C91 8 CORK 104 942 4 CORK 117 926 8 DOWEL 621 546 C1 4 DOWEL 621 547 C1 \$ 1 FRAME 2 INSERT 621 549 C1 1 PLUG 217 647 R1 4 PLUG 613 908 C1 1 TUBE 621 548 C2)
21	623 761 C1 104 942 117 926	CLAMP, rear main frame oil level gauge lock (Used w/GAUGE, 652 445 C1) CORK, #6 (8) CORK, #12 (4)
22	105 407	NIPPLE
23	259 190 R1	RING, sealing (rear P.T.O.) (Used w/COVER, 733 040 C1 only)
24	733 040 C1 26 957 R1	COVER, rear P.T.O. BOLT

CRANKCASE GUARDS



REF. NO.	PART NUMBER	DESCRIPTION
A		Service parts for crankcase guard without pull hook
B	622 854 C92	ATTACHMENT, crankcase guard w/pull hook (See NOTE 3) (Consists of -
1	621 691 C1	SHIM, crankcase guard front (Used with GUARD, 621 670 C1 and GUARD, 621 675 C1)
2	621 675 C2 24 861 R1 25 546 R1	GUARD, crankcase (Guard A) SCREW, hex-hd cap (9) WASHER, hardened (9)
3	621 670 C2 24 861 R1 25 546 R1	GUARD w/pull hook, crankcase (Guard B) SCREW, hex-hd cap (9) WASHER, hardened (9)

TRANSMISSION GUARD

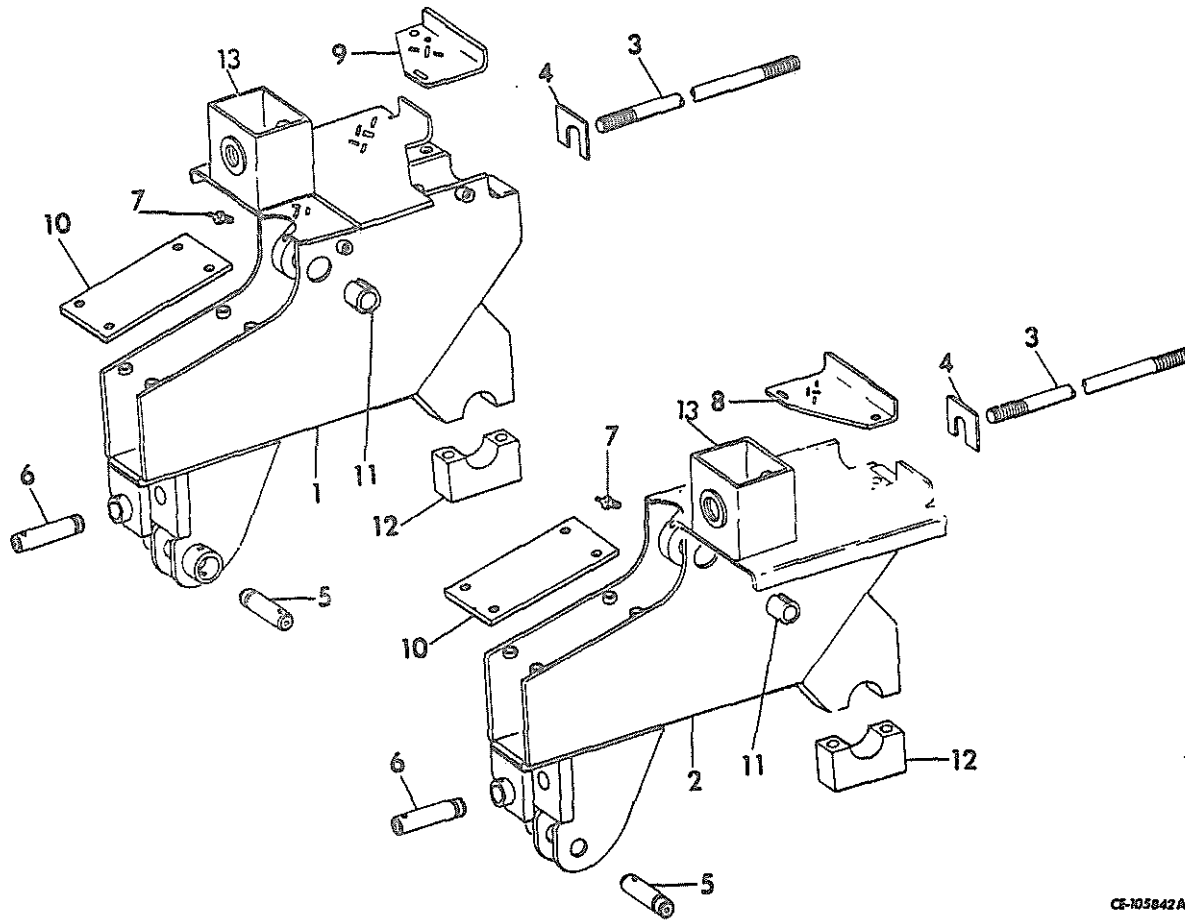


1	661 383 C1 24 861 R1 25 546 R1	GUARD, transmission SCREW, hex-hd cap (6) WASHER, hardened (6)
2	621 688 C1 24 861 R1 116 121	DOOR, access SCREW, hex-hd cap (4) WASHER, lock (4)
3	621 694 C1 24 861 R1 116 121	GUARD, connecting SCREW, hex-hd cap (3) WASHER, lock (3)

FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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MOUNTING FRAME AND RELATED PARTS (For Model G8H Inside Arm Hydraulic Bulldozer)



CE-105842A

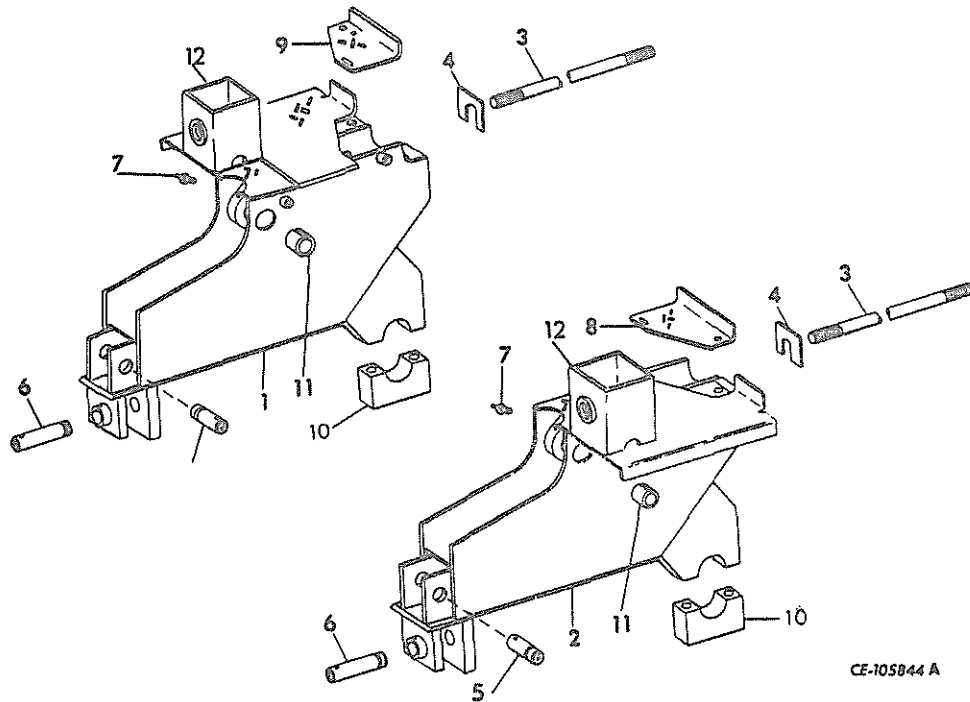
1	620 952 C95	FRAME w/BUSHING, 618 962 C1, Clamp, 628 486 C91, two BOLT, 22 398 R1, and two WASHER, 232 361 R1, RH carrying	5	620 873 C2 25 285 R1 9 412 230	PIN, trunnion (2) BOLT (2) NUT, stover lock (2)
2	620 951 C95	FRAME w/BUSHING, 618 962 C91 CLAMP, 628 486 C91, two BOLT, 22 398 R1, and two WASHER, 232 361 R1, LH carrying	6	620 873 C2 25 285 R1 9 412 230	PIN, frame mounting (2) BOLT (2) NUT (2)
3	620 869 C1 341 811 R1 25 762 R1 620 862 C1	BAR, tie (2) WASHER (4) NUT (4) SPACER (2)	7	102 467 H	FITTING, lubrication (Optional with FITTING, 110 146 R91) (2)
4		SHIM, carrying frame (.0149") (Order shim PACKAGE, 626 174 C1) (6)	7	110 146 R91	FITTING, lubrication (Optional with FITTING, 102 467 H) (2)
4		SHIM, carrying frame (.0598") (Order shim PACKAGE, 626 174 C1) (2)	8	620 863 C1 24 840 R1 115 093 118 775	PLATE, LH access SCREW, hex-hd cap (2) WASHER, lock (2) WASHER (2)
4		SHIM, carrying frame (.0299") (Order shim PACKAGE, 626 174 C1) (2)	9	620 864 C1 24 840 R1 115 093 118 775	PLATE, RH access SCREW, hex-hd cap (2) WASHER, lock (2) WASHER (2)

(Rev. No. 1)

FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
MOUNTING FRAME AND RELATED PARTS - Continued (For Model G8H Inside Arm Hydraulic Bullgrader)			626	174 C1	PACKAGE, tie bar shim (Consists of two shim (.0598"), two shim (.0299") and six shim (.0149")
10	620 950 C2 26 310 R1 115 093	PLATE, cover (2) BOLT (8) WASHER, lock (8)	628	486 C91	PACKAGE, pivot clamp service (Consists of one clamp and eight shims)
11	618 962 C1	BUSHING, carrying frame (2)			
12		CLAMP, (Order PACKAGE, 628 486 C91 (2)			
	22 398 R1 232 361 R1	SCREW, hex-hd cap (4) WASHER, (4)			
13	668 693 C1	SOCKET ASSY.			

MOUNTING FRAME AND RELATED PARTS
(For Model G82 Outside Arm Hydraulic Bullgrader)



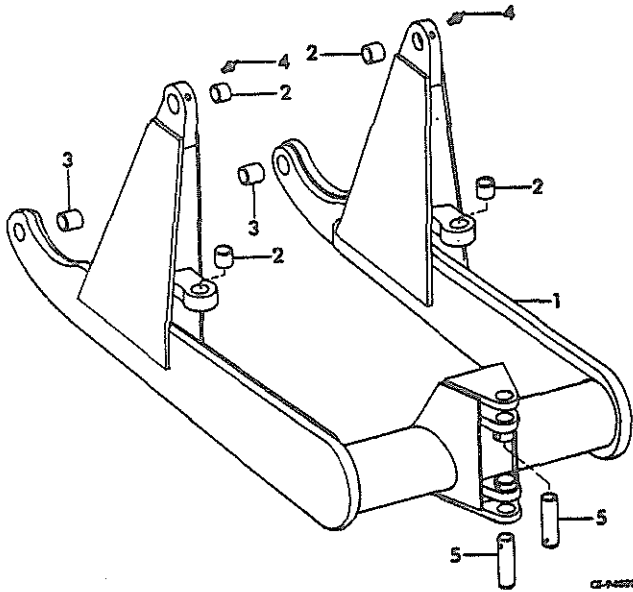
1	645 205 C94	FRAME w/BUSHING, 618 962 C1, CLAMP, 628 486 C91, two SCREW, 22 398 R1 and two WASHER, 232 361 R1 RH carrying	4		SHIM, carrying frame (.0598") (Order shim PACKAGE, 626 174 C1) (2)
2	645 204 C94	FRAME w/BUSHING, 618 962 C1, CLAMP, 628 486 C91, two SCREW, 22 398 R1 and two WASHER, 232 361 R1 LH carrying	4		SHIM, carrying frame (.0299") (Order shim PACKAGE, 626 174 C1) (2)
3	620 869 C1 341 811 R1 25 762 R1 620 862 C1	BAR, tie (2) WASHER (4) NUT (4) SPACER (2)	5	620 562 C1 9 413 979 277 232 R1	PIN, radius arm pivot (2) NUT, stover lock (2) SCREW, hex-hd cap (2)
			6	620 873 C2 9 412 230 25 285 R1	PIN, frame mounting (2) NUT, stover lock (2) SCREW, hex-hd cap (2)
4		SHIM, carrying frame (.0149") (Order shim PACKAGE, 626 174 C1) (6)	7	102 467 H	FITTING, lubrication (Optional with FITTING, 110 146 R91) (2)

(Rev. No. 1)

FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
MOUNTING FRAME AND RELATED PARTS - Continued (For Model 8G2 Outside Arm Hydraulic Bullgrader)			"C" FRAME - Continued (For Model G8H Inside Arm Hydraulic Bullgrader)		
7	110 146 R91	FITTING, lubrication (Optional with FITTING, 102 467 H) (2)	1	620 641 C93	"C" FRAME w/four BUSHING, 618 962 C1, and two BUSHING, 620 665 C1)
8	620 863 C1 24 840 R1 115 093 118 775	PLATE, LH access SCREW, hex-hd cap (2) WASHER, lock (2) WASHER (2)	2	618 962 C1	BUSHING, cylinder lug (4)
9	620 864 C1 24 840 R1 115 093 118 775	PLATE, RH access SCREW, hex-hd cap (2) WASHER, lock (2) WASHER (2)	3	620 665 C1	BUSHING, trunnion (2)
10		CLAMP (Order PACKAGE, 628 486 C91) (2) 22 398 R1 SCREW, hex-hd cap (4) 232 361 R1 WASHER, clamp (4)	4	109 461	FITTING, lubrication (2)
11	618 962 C1	BUSHING, carrying frame (2)	5	620 664 C1 25 285 R1 9 412 230	PIN, angle frame pivot (2) SCREW, hex-hd cap (2) NUT, stover lock (2)
12	668 693 C1	SOCKET ASSY.			
	626 174 C1	PACKAGE, tie bar shim (Consists of two shim (.0598"), two shim (.0299") and six shim (.0149")			
	628 486 C91	PACKAGE, pivot clamp service (Consists of one CLAMP, and eight shims)			

"C" FRAME
(For Model G8H Inside Arm Hydraulic Bullgrader)

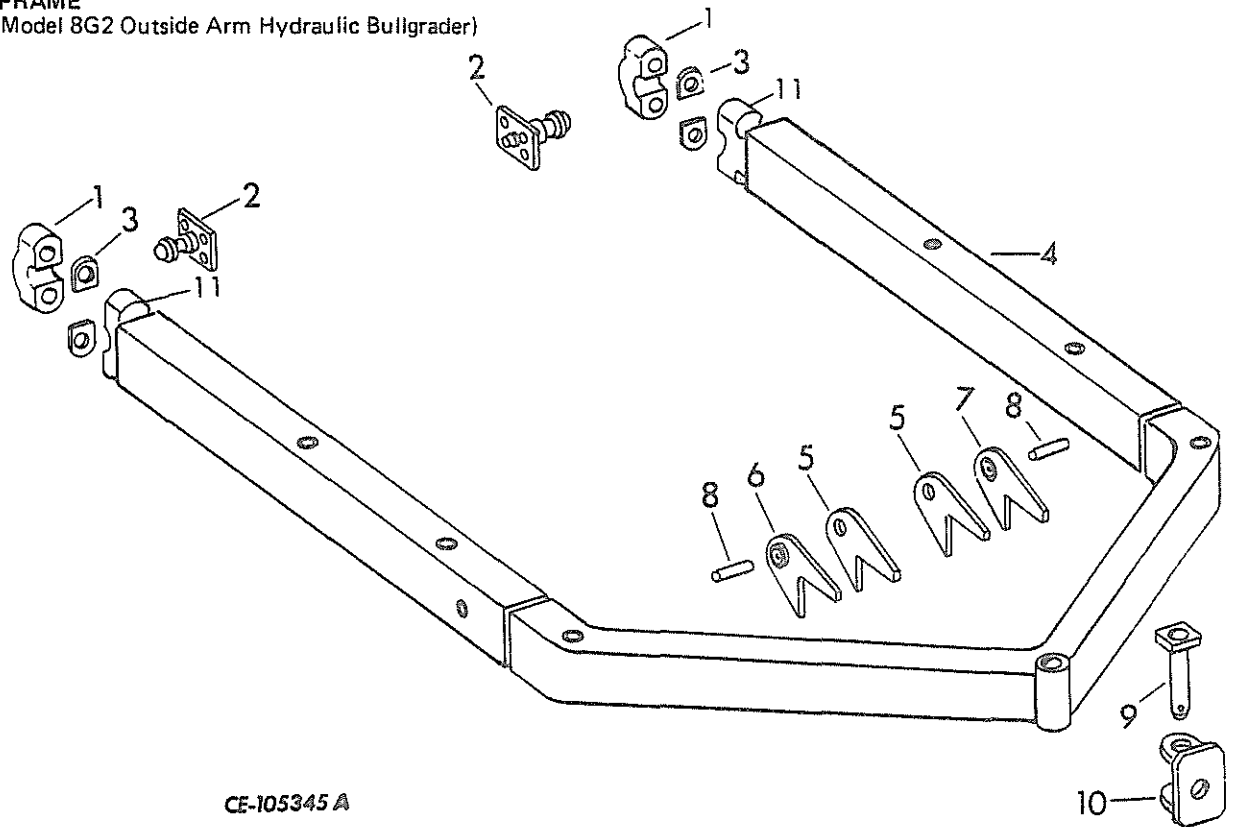


(Rev. No. 1)

FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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"C" FRAME
(For Model 8G2 Outside Arm Hydraulic Bullgrader)



CE-105345 A

1	292 929 R1	CAP, trunnion bearing (2)	9	647 166 C2	PIN, main
				24 843 R1	SCREW, hex-hd cap
2	647 430 C2	TRUNNION (2)		9 413 979	NUT, lock
	26 053 R1	BOLT, hex-hd (8)			
	25 539 R1	WASHER flat (8)			
3	292 931 R1	SHIM, trunnion bearing cap (16)	10	647 158 C1	PIVOT, block
4	647 307 C91	"C" FRAME w/bearing caps (Composed of -	11	647 171 C1	BEARING, trunnion (2)
		2 CAPS			292 929 R1
		2 BEARING			647 171 C1
		1 FRAME			
		1 PLATE			647 164 C2
		1 PLATE			647 165 C2
		2 PLATE			668 550 C1
		16 SHIM			292 931 R1
	24 895 R1	SCREW, hex-hd cap (4)			
	25 538 R1	WASHER, flat (4)			
	292 930 R1	NUT (4)			
5	668 550 C1	PLATE, lift lug (2)			
6	647 165 C2	PLATE, lift lug RH			
7	647 164 C2	PLATE, lift lug LH			
8	620 621 C1	PIN, lift arm mounting (2)			
	21 318 R1	SCREW, hex-hd cap (2)			
	9 413 979	NUT, lock (2)			

1

**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

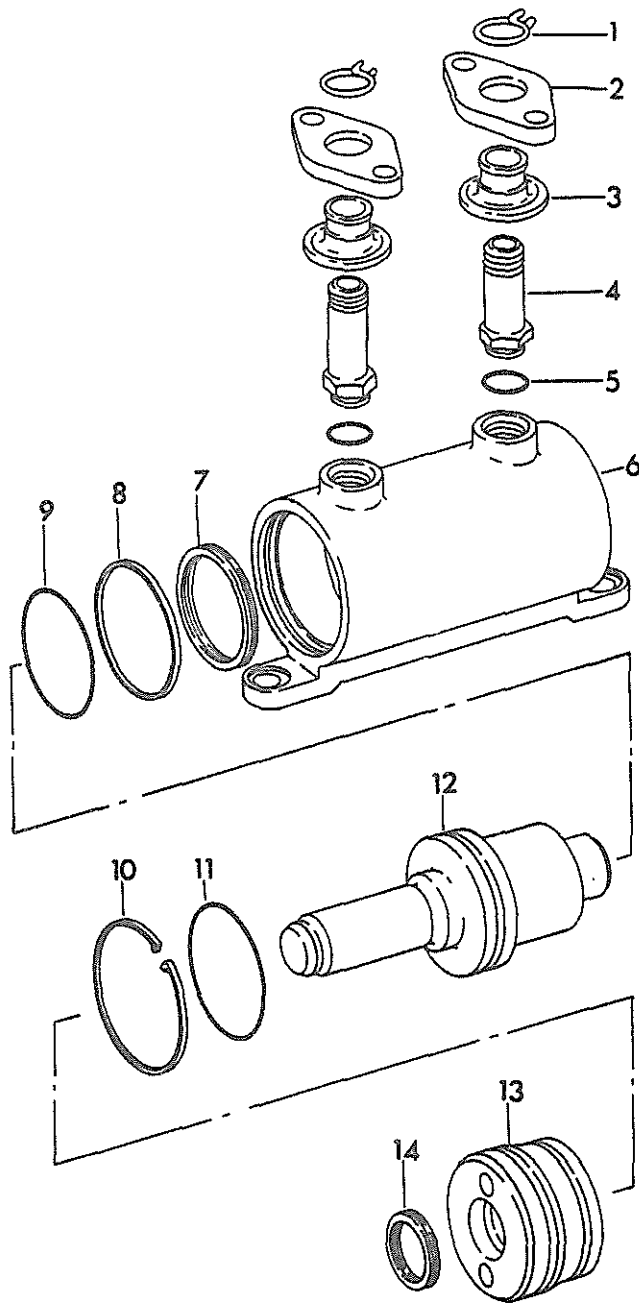
HYDRAULICS

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HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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STEERING CYLINDERS AND PISTONS



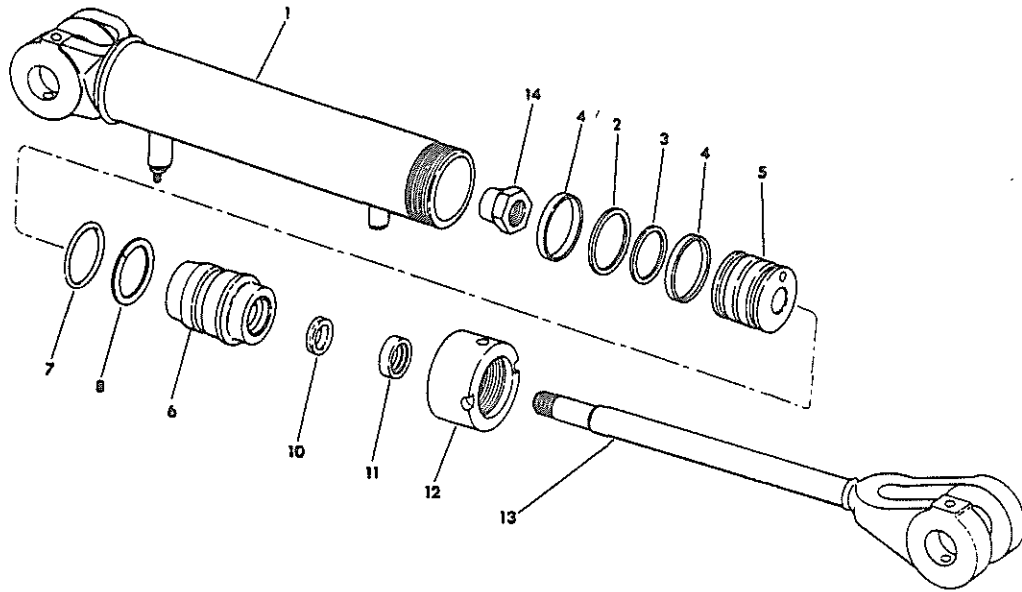
3	652 341 C1	BOOT, steering cylinder hydraulic fitting (Part of PACKAGE, 622 827 C91)(4)
4	9 410 229	UNION, 37° flared tube swivel (4)
5	570 828 R1	RING, fitting sealing (Part of PACKAGE, 622 827 C91)(4)
6	621 799 C2 690 693 R1 24 861 R1 25 536 R1	CYLINDER, steering (2) PIN, spring (2) BOLT (4) WASHER, flat (4)
7		RING, piston sealing quad (Order PACKAGE, 622 827 C91) (2)
8		RING, piston sealing (Order PACKAGE, 622 827 C91) (2)
9		RING, piston seal back-up (Order PACKAGE, 622 827 C91) (2)
10	381 873 R1	RING, end cap retaining (2)
11		RING, end cap sealing (Order PACKAGE, 622 827 C91) (2)
12	621 800 C1	PISTON, steering cylinder (2)
13	621 801 C1	CAP, cylinder end (2)
14		RING, piston sealing (Order PACKAGE, 622 827 C91) (2)
	622 827 C91	PACKAGE, steering cylinder sealing ring (Services one cylinder) (x) (Consists of - 2 BOOT 652 341 C1 2 CLAMP 112 700 R1 \$ 1 RING, end cap sealing 2 CLAMP 112 780 R1 1 RING 570 828 R1 \$ 1 RING, piston seal back-up \$ 1 RING, piston seal quad \$ 1 RING, piston seal quad \$ 1 RING, piston sealing)

1	112 700 R1	CLAMP, fitting boot (Part of PACKAGE, 622 827 C91)(4)
2	628 095 C1	FLANGE, steering cylinder fitting sealing (4)
	9413 979	NUT (8)
	25 534 R1	WASHER, hardened (8)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BLADE LIFT CYLINDERS
 (For Model G8H Inside Arm Hydraulic Bullgrader)
 (For Model 8G2 Outside Arm Hydraulic Bullgrader)



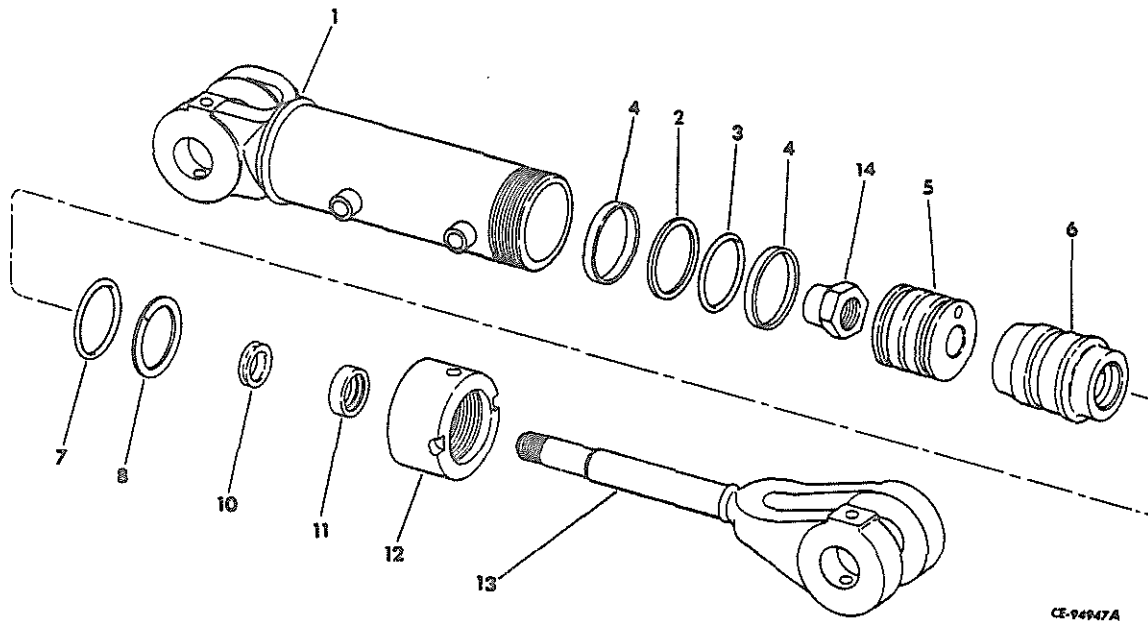
	620 622 C92	CYLINDER, blade lift (2)			
	645 351 C1	PIN, cylinder mounting (4)	13	620 626 C1	ROD, piston
	24 856 R1	SCREW, hex-hd cap (4)			
	9413 981	NUT, lock (4) (Composed of -	14	25 126 R1	NUT, piston rod lock
1	620 623 C1	HOUSING, cylinder		626 230 C3	PACKAGE, cylinder sealing ring (Services one cylinder) (x) (Consists of -
2		RING, seal (Order PACKAGE, 626 230 C3)		\$ 2	RING
3		"O" RING (Order PACKAGE, 626 230 C3)		\$ 1	RING
4		RING, wear (Order PACKAGE, 626 230 C3) (2)		\$ 1	RING
5	620 629 C1	PISTON		\$ 1	RING
6	715 006 C1	HEAD, front cylinder (Replaces 387 353 R1)		\$ 1	SEAL
7		"O" RING (Order PACKAGE, 626 230 C3)		\$ 1	SEAL)
8		RING, back-up (Order PACKAGE, 626 230 C3)			
10		SEAL, rod (Order PACKAGE, 626 230 C3)			
11		SEAL (Order PACKAGE, 626 230 C3)			
12	381 089 R1	RING, retainer			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BLADE TILT CYLINDER

(For Model G8H Inside Arm Hydraulic Bullgrader)

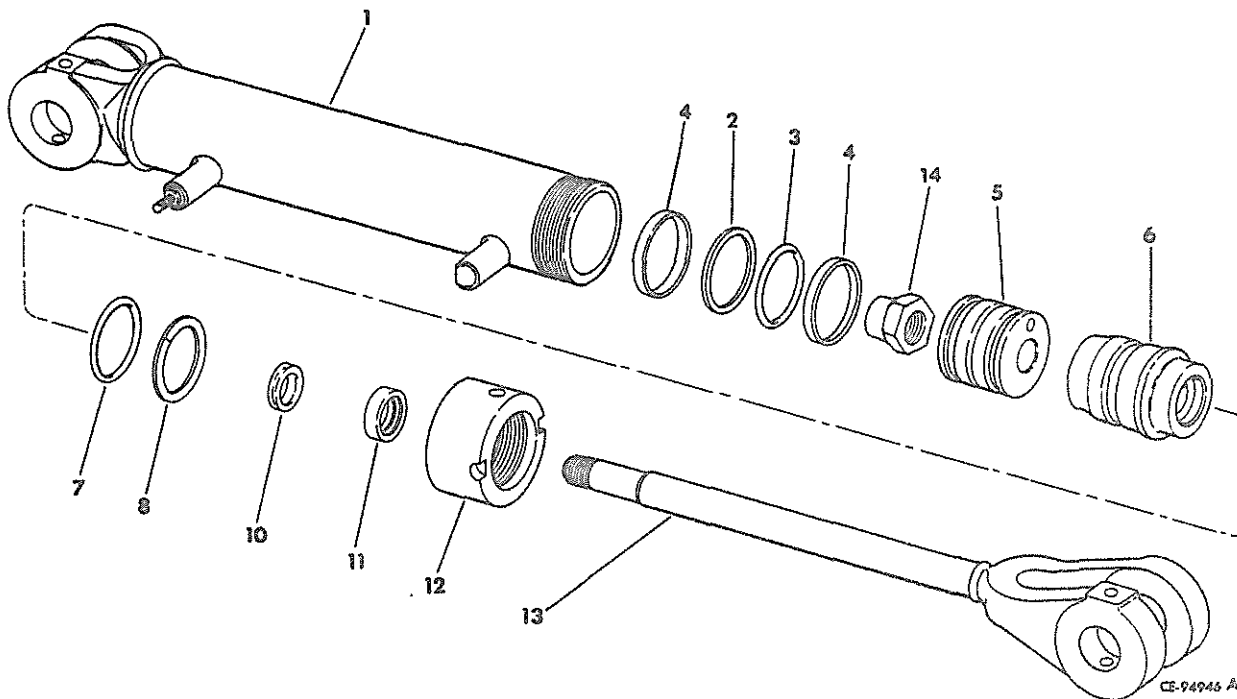


	620 635 C92	CYLINDER, blade tilt	13	620 638 C1	ROD, piston
	645 351 C1	PIN, cylinder mounting (2)		25 126 R1	NUT, piston rod lock
	24 856 R1	SCREW, hex-hd cap (2)		626 230 C3	PACKAGE, cylinder sealing ring (x)
	9 413 981	NUT (2)			(Consists of -
		(Composed of -			\$ 2 RING
1	620 636 C1	HOUSING, cylinder			\$ 1 RING
2		RING, seal (Order PACKAGE, 626 230 C3)			\$ 1 RING
3		"O" RING (Order PACKAGE, 626 230 C3)			\$ 1 RING
4		RING, wear (Order PACKAGE, 626 230 C3) (2)			\$ 1 SEAL
5	620 629 C1	PISTON			\$ 1 SEAL)
6	715 006 C1	HEAD, front cylinder (Replaces 387 353 R1)			
7		"O" RING (Order PACKAGE, 626 230 C3)			
8		RING, back-up (Order PACKAGE, 626 230 C3)			
10		SEAL, rod (Order PACKAGE, 626 230 C3)			
11		SEAL (Order PACKAGE, 626 230 C3)			
12	381 089 R1	RING, retainer			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BLADE TILT CYLINDER (For Model G8H Inside Arm Hydraulic Bullgrader)

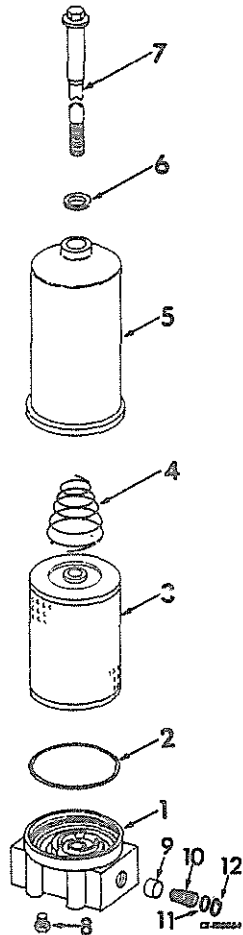


	620 630 C92	CYLINDER, blade angle (2)			
	645 351 C1	PIN, cylinder mounting (4)			
	24 856 R1	SCREW, hex-hd cap (4)			
	9413 981	NUT (4)			
		(Composed of -			
1	620 631 C1	HOUSING, cylinder	11		SEAL (Order PACKAGE, 626 230 C3)
2		RING, seal (Order PACKAGE, 626 230 C3)	12	381 089 R1	RING, retainer
3		"O" RING (Order PACKAGE, 626 230 C3)	13	620 638 C1	ROD, piston
4		RING, wear (Order PACKAGE, 626 230 C3) (2)	14	25 126 R1	NUT, piston rod lock
5	620 629 C1	PISTON		626 230 C3	PACKAGE, cylinder sealing ring (x)
6	715 006 C1	HEAD, front cylinder (Replaces 387 353 R1)			(Consists of -
7		"O" RING (Order PACKAGE, 626 230 C3)			\$ 2 RING
8		RING, back-up (Order PACKAGE, 626 230 C3)			\$ 1 RING
10		SEAL, rod (Order PACKAGE, 626 230 C3)			\$ 1 RING
					\$ 1 RING
					\$ 1 SEAL
					\$ 1 SEAL)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION PRESSURE FILTER



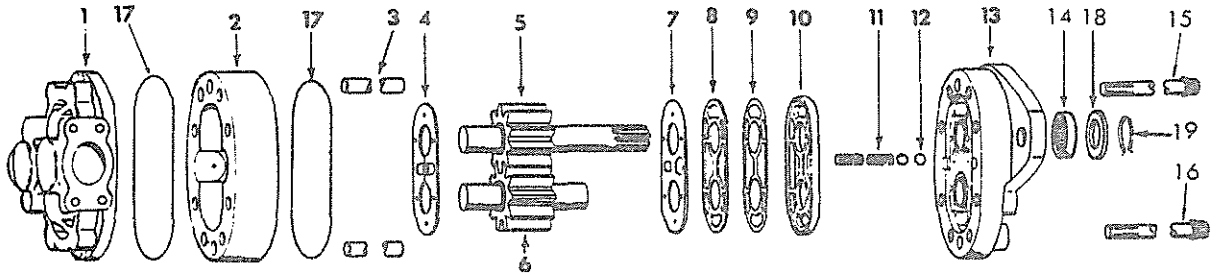
5	615 443 C1	BODY
6	619 814 C1	WASHER, seal
7	615 446 C1	BOLT
8	444 820	PLUG, filter back face outlet (Not part of FILTER ASSEMBLY)
9	381 625 R1	VALVE (FILTER A)
9	706 950 C1	VALVE (FILTER B)
10	619 815 C1	SPRING (FILTER A)
10	622 663 C2	SPRING (FILTER B)
11	392 953 R1	WASHER (FILTER A)
11	103 343	WASHER (FILTER B)
12	338 835 R1	RETAINER

A	621 930 C91	FILTER, transmission pressure, order Filter Assembly 665 728 C94
B	665 728 C94	FILTER, transmission pressure
	24 840 R1	SCREW, hex-hd cap (4)
	115 093	WASHER, lock (4) (Composed of -
1	619 809 C92	BASE ASSEMBLY Order Filter Assembly 665 728 C94 (FILTER A)
1		BASE (Not Furnished Separately) (FILTER B)
2	343 912 R1	"O" RING (FILTER A)
2	304 934 R1	"O" RING (FILTER B)
3	615 447 C2	ELEMENT
4	615 444 C1	SPRING (FILTER A)
4	471 033 R1	SPRING (FILTER B)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION AND TORQUE CONVERTER PUMP



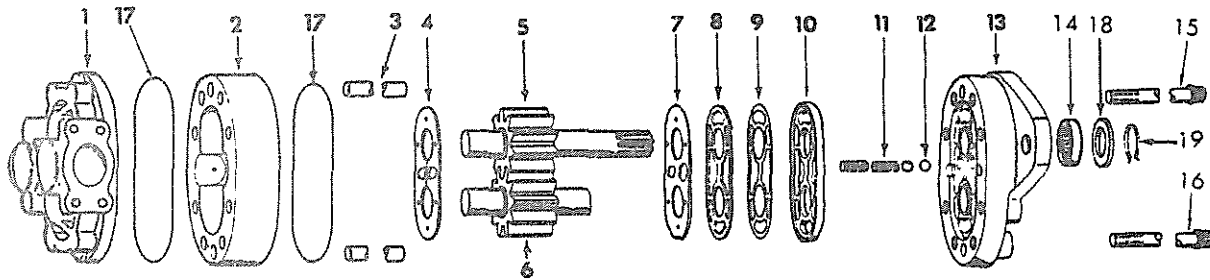
PL-117723

	625 000 C92	PUMP, transmission and torque converter hydraulic	18		WASHER, special (Order KIT, 67 055 C1)
	468 339 R1	"O" RING	19		RING, retaining (Order KIT, 67 055 C1)
	25 506 R1	SCREW, hex-hd cap (2)			
	103 343	WASHER (2)			
	116 121	WASHER, lock (2)			
		(Composed of -	67 055 C1		KIT, major seal repair
1		PLATE, back (Not Furnished Separately)			(Consists of -
2		BODY (Not Furnished Separately)			\$ 2 BALL
3		PIN, dowel (Not Furnished Separately)			\$ 1 DIAPHRAGM
4		PLATE, thrust (Order KIT, 67 055 C1)			\$ 1 GASKET, back-up
5		GEAR, drive (Not Furnished Separately)			\$ 1 GASKET, protector
6		GEAR, idler (Not Furnished Separately)			\$ 2 "O" RING
7		DIAPHRAGM (Order KIT, 67 055 C1)			\$ 1 PLATE, thrust
8		GASKET, back-up (Order KIT, 67 055 C1)			\$ 1 RING, retaining
9		GASKET, protector (Order KIT, 67 055 C1)			\$ 1 SEAL, diaphragm
10		SEAL, diaphragm (Order KIT, 67 055 C1)			\$ 1 SEAL, shaft
11		SPRING, check (Order KIT, 67 055 C1) (2)			\$ 2 SPRING
12		BALL, steel (Order KIT, 67 055 C1) (2)			\$ 1 WASHER)
13		PLATE, front (Not Furnished Separately)			
14		SEAL, shaft (Order KIT, 67 055 C1)			
15	210 538 H1	SCREW, cap (4)			
16	182 561 H1	SCREW, cap (4)			
17		"O" RING (Order KIT, 67 055 C1) (2)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PUMP
(For all Machines without Backhoe and Backhoe Models 6258 and up)



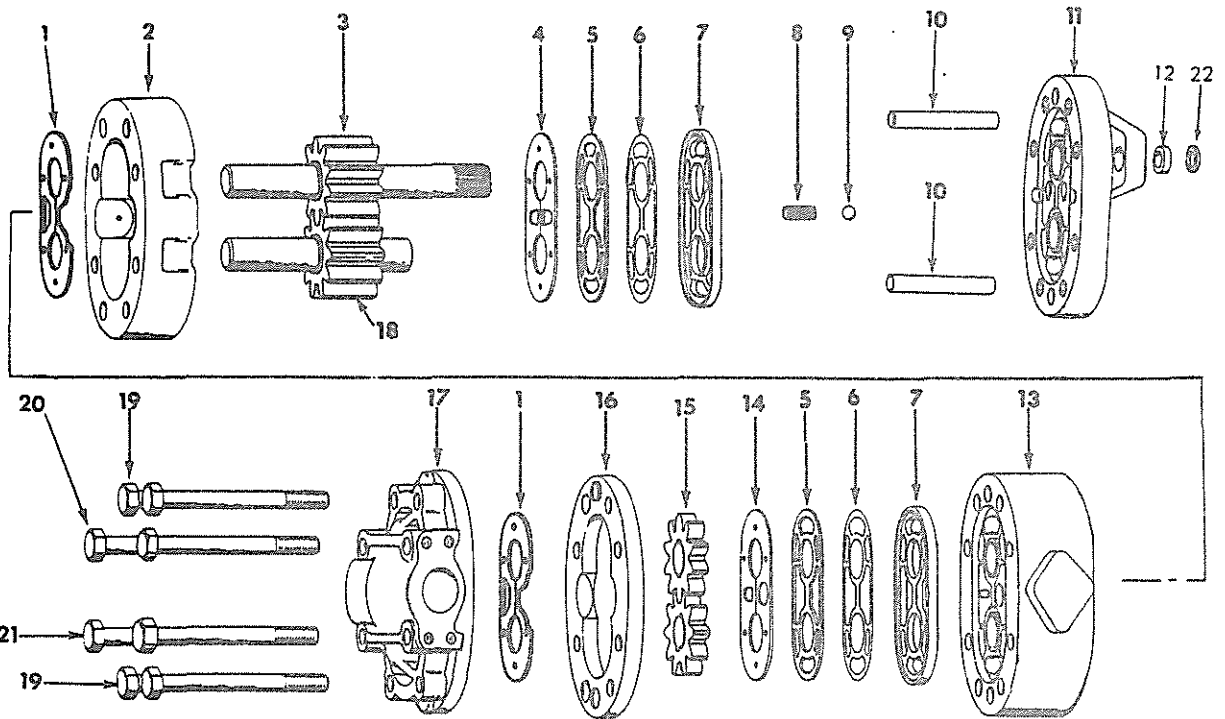
PL-117723

	623 084 C92	PUMP, tractor equipment	18		WASHER, special (Order KIT, 67 055 C1)
	468 339 R1	"O" RING			
	25 506 R1	SCREW, hex-hd cap (2)			
	116 121	WASHER, lock (2)	19		RING, retaining (Order KIT, 67 055 C1)
	103 343	WASHER, flat (2)			
1		PLATE, back (Not Furnished Separately)	67 055 C1		KIT, major seal repair (Consists of -
2		BODY (Not Furnished Separately)			\$ 2 BALL
3		PIN, dowel (Not Furnished Separately) (2)			\$ 1 DIAPHRAGM
4		PLATE, thrust (Order KIT, 67 055 C1)			\$ 1 GASKET, back-up
5		GEAR, drive (Not Furnished Separately)			\$ 1 GASKET, protector
6		GEAR, idler (Not Furnished Separately)			\$ 2 "O" RING
7		DIAPHRAGM (Order KIT, 67 055 C1)			\$ 1 PLATE, thrust
8		GASKET, back-up (Order KIT, 67 055 C1)			\$ 1 RING, retaining
9		GASKET, protector (Order KIT, 67 055 C1)			\$ 1 SEAL, diaphragm
10		SEAL, diaphragm (Order KIT, 67 055 C1)			\$ 1 SEAL, shaft
11		SPRING, check (Order KIT, 67 055 C1) (2)			\$ 2 SPRING
12		BALL, steel (Order KIT, 67 055 C1) (2)			\$ 1 WASHER)
13		PLATE, front (Not Furnished Separately)			
14		SEAL, shaft (Order KIT, 67 055 C1)			
15	202 207 H1	SCREW, cap (4)			
16	25 635 R1	SCREW, cap (4)			
17		"O" RING (Order KIT, 67 055 C1) (2)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PUMP (For Backhoe Models 6257 and below)



CE-98226 A

	656 913 C91	PUMP, tractor equipment	11		PLATE, front (Not Furnished Separately)
	468 339 R1	"O" RING			
	25 506 R1	SCREW, hex-hd cap (2)			
	116 121	WASHER, lock (2)	12		SEAL, shaft (Order KIT, 627 275 C1)
	103 343	WASHER, flat (2)			
1		(Composed of - PLATE, thrust (Order KIT, 627 275 C1) (2)	13		PLATE, adapter (Not Furnished Separately)
2		BODY, (Not Furnished Separately)	14		DIAPHRAGM (Order KIT, 627 275 C1)
3		GEAR, drive (Not Furnished Separately)	15		GEAR, slip fit (Not Furnished Separately) (2)
4		DIAPHRAGM (Order KIT, 627 275 C1)	16		BODY (Not Furnished Separately)
5		GASKET, back-up (Order KIT, 627 275 C1) (2)	17		PLATE, back (Not Furnished Separately)
6		GASKET, protector (Order KIT, 627 275 C1) (2)	18		GEAR, idler (Not Furnished Separately)
7		SEAL, diaphragm (Order KIT, 627 275 C1) (2)	19	187 433	SCREW, hex-hd cap (4)
				103 322	WASHER, lock (4)
8		SPRING (Order KIT, 627 275 C1)	20	187 136	SCREW, hex-hd cap (2)
				103 322	WASHER, lock (2)
9		BALL, steel (Order KIT, 627 275 C1)	21	187 238	SCREW, hex-hd cap (2)
				103 323	WASHER, lock (2)
10		PIN, dowel (Not Furnished Separately) (2)	22		RING, retaining (Order Kit, 627 275 C1)

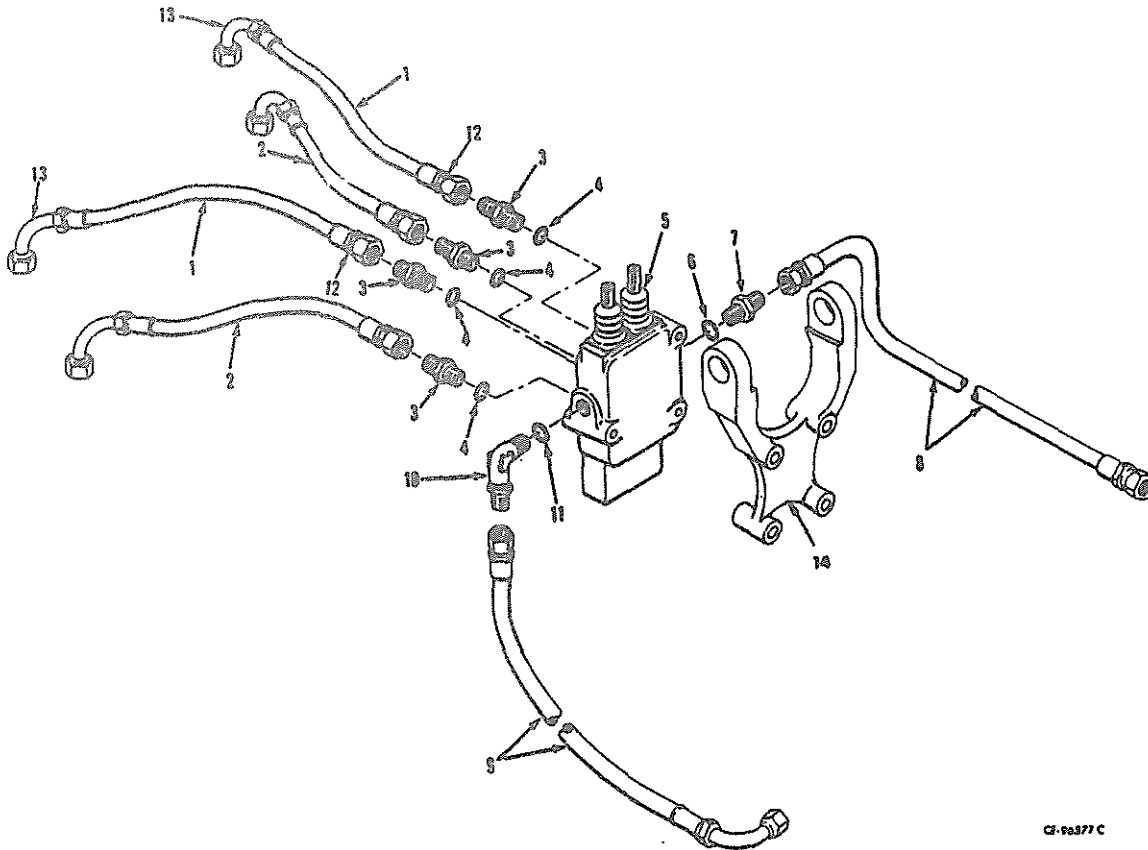
HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PUMP - Continued
(For Backhoe Models 6257 and below)

627 275 C1	KIT, major seal repair	(Consists of -
	\$ 1	BALL
	\$ 1	DIAPHRAGM
	\$ 1	DIAPHRAGM
	\$ 2	GASKET, back-up
	\$ 2	GASKET, protector
	\$ 2	PLATE, thrust
	\$ 2	SEAL, diaphragm
	\$ 1	SEAL, shaft
	\$ 1	SPRING, check
	\$ 1	RING, retaining)

HYDRAULIC STEERING PIPING



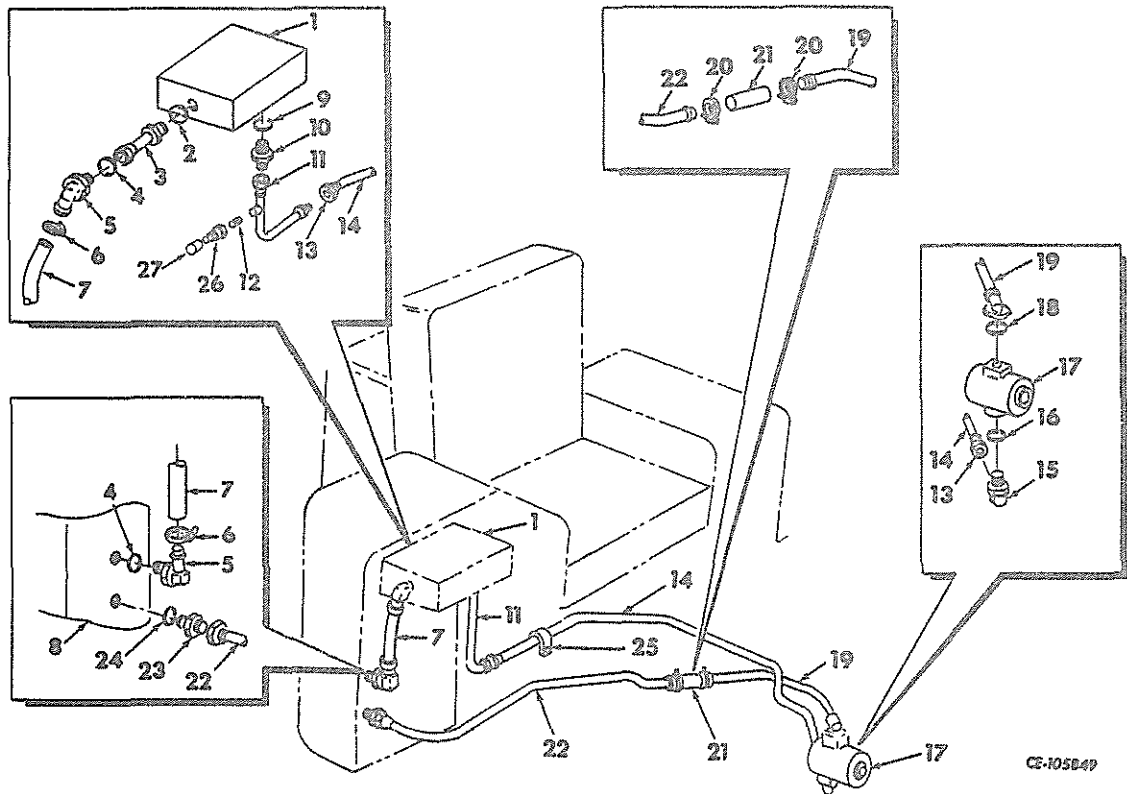
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1	628 097 C1	HOSE w/FITTINGS, steering valve brake port to steering cylinder brake port (HOSE, 13/32" ID x 15" long including FITTINGS) (2)	2	656 707 C1	HOSE w/two FITTINGS, steering valve clutch port to steering cylinder clutch port (HOSE, 3/8" ID x 12" long including FITTINGS) (2)
			3	9 410 203	CONNECTOR, steering valve clutch and brake ports (4)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
HYDRAULIC STEERING PIPING - Continued			10	9 410 977	ELBOW, 90° steering valve inlet
4	570 828 R1	"O" RING, valve port connector sealing (4)	11	570 828 R1	"O" RING, steering valve inlet elbow seal
5		VALVE, steering control (Refer to "Steering Control Valve")	12		FITTING, female swivel hose (Order HOSE ASSY, 628 097 C1) (2)
6	570 828 R1	"O" RING, valve outlet connector sealing	13		FITTING, female swivel hose (Order HOSE ASSY, 628 097 C1) (2)
7	9 410 203	CONNECTOR, steering valve outlet	14	621 803 C1	SUPPORT, steering valve
8	656 547 C1	HOSE w/two FITTINGS, steering valve outlet to drain elbow in transmission cover (HOSE, 1/2" ID x 20" long including FITTINGS)		25 750 R1	NUT
				116 120	SCREW, hex-hd cap
				25 520	WASHER, lock
9	656 549 C1	HOSE w/two FITTINGS, regulator main port tee to steering valve inlet (HOSE, 1/2" ID x 20" long including FITTINGS)			

TRACTOR EQUIPMENT PIPING (For All Models Except Backhoe)



1		VALVE ASSY, tractor equipment control (Refer to "Tractor Equipment Control Valves")	3	645 104 C1	TUBE, return (For models equipped w/one spool valve)
2	296 247 R1	"O" RING (For models equipped w/one spool valve)	4	296 247 R1	"O" RING (2)
			5	391 806 R1	FITTING, 90° (2)

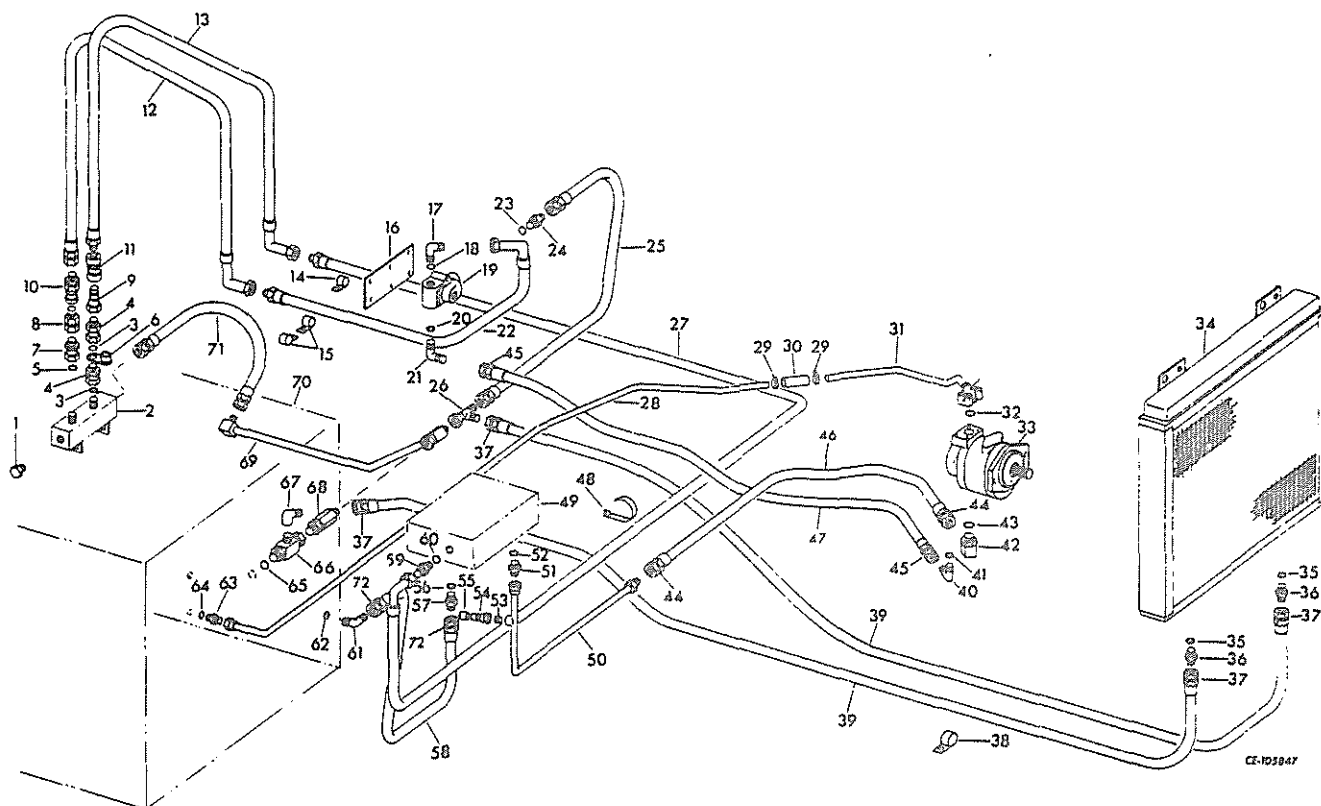
HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued (For All Models Except Backhoe)					
6	690 062 C1	CLAMP, hose (Replaces 23 908 R1) (2)			
7	653 513 C1	HOSE, return			
8		RESERVOIR, tractor equipment hydraulics (Refer to "Reservoir and Related Parts")			
9	296 247 R1	"O" RING			
10	380 633 R1	CONNECTOR, male			
11	645 333 C1	TUBE, pressure			
12		NIPPLE, 1/8" x 3/4" pipe			
13		FITTING, female swivel hose (Order HOSE, 645 334 C1)			
14	645 334 C1	HOSE w/FITTINGS, pump to tube (HOSE, 3/4" ID x 48" long including FITTINGS)			
15	150 776 C91	ELBOW, 90°			
16	296 247 R1	"O" RING			
17		PUMP ASSY, tractor equipment (Refer to "Tractor Equipment Pumps")			
18	707 253 R1	"O" RING			
19	705 613 C1 24 850 R1 115 314	TUBE, suction SCREW, hex-hd cap (4) WASHER, lock (4)			
20	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)			
21	645 097 C1	HOSE, connector			
22	645 096 C1	TUBE, suction			
23	9 410 209	CONNECTOR, male			
24	301 016 R1	"O" RING			
25	122 322 R91 331 775 R91	CLAMP, hose (Replaces 274 088 R91) PAD, rubber (Order STRAP, 610 213 C91)			
26	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1)			
26	715 370 C1	PLUG, quick connective			
27	715 477 C1	COVER, protective (Replaces 666 101 C1)			
	610 213 C91	STRAP, hose (Will work for CLAMP, 122 322 R91 and PAD, 331 775 R91)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PIPING (For Backhoe Models 6257 and Below)



1	444 709	PLUG, pipe	13	668 826 C1	HOSE, pressure (HOSE, 1/2" ID x 58" long including FITTINGS)
2	645 236 C1 140 483 H 115 093 25 522 R1	FITTING, special backhoe SCREW, hex-hd cap (2) WASHER, lock (2) NUT (2)	14	309 929 R1 24 861 R1 116 121 25 526 R1	CLAMP, hose SCREW, hex-hd cap WASHER, lock NUT
3	364 885 R1	"O" RING (2)	15	314 798 R1 24 861 R1 116 121 25 526 R1	CLAMP, hose (2) SCREW, hex-hd cap WASHER, lock NUT
4	485 313 R1	UNION (2)	16	647 092 C1 25 791 R1 115 314	PLATE, relief valve mounting SCREW, hex-hd cap (4) WASHER, lock (4)
5	297 459 R1	"O" RING, union	17	9 410 978	ELBOW, inlet
6	999 599 R1	CAP, dust	18	364 885 R1	"O" RING, elbow
7	485 312 R1	UNION	19		VALVE, relief (Refer to "Relief Valve")
8	1 213 368 C91	COUPLING, male (Replaces 480 745 R91)		277 232 R1 115 093 25 522 R1	SCREW, hex-hd cap (2) WASHER, lock (2) NUT (2)
9	395 149 R1	COUPLING			
10	1 213 367 C91	COUPLING, female (Replaces 480 746 R91)			
11	395 150 R91	COUPLING			
12	668 825 C1	HOSE, pressure (HOSE, 3/4" ID x 58" long including FITTINGS)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued (For Backhoe Models) (6257 and Below)			44		FITTING, female swivel hose (Order HOSE, 645 334 C1) (2)
20	364 885 R1	"O" RING, elbow	45		FITTINGS, female swivel hose (Order HOSE, 647 087 C1) (2)
21	9 410 978	ELBOW, outlet	46	645 334 C1	HOSE, w/FITTINGS, pump to tube (HOSE, 3/4" ID x 48" long including FITTINGS)
22	647 086 C1	HOSE, relief valve to backhoe junction block (HOSE, 1/2" ID x 25" long including FITTINGS)	47	647 087 C1	HOSE w/FITTINGS, pressure (HOSE, 1/2" ID x 45" long including FITTINGS)
23	364 885 R1	"O" RING, connector	48	610 213 C91	STRAP, pressure hose retain
24	9 410 204	CONNECTOR, relief valve return	49		VALVE ASSY, tractor equipment control (Refer to "Tractor Equipment Control Valves")
25	647 084 C1	HOSE, relief valve to reservoir (HOSE 1/2" ID x 20" long including FITTINGS)	50	645 333 C1	TUBE, pressure
26	9 410 335	TEE, reservoir return	51	380 633 R1	CONNECTOR, pressure
27	647 085 C1	HOSE, pressure (HOSE, 3/4" ID x 66" long including FITTINGS)	52	296 247 R1	"O" RING, connector
28	645 096 C1	TUBE, suction	53		NIPPLE, 1/8" x 3/4" pipe
29	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)	54	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1)
30	645 097 C1	HOSE, suction	54	715 370 C1	PLUG, quick connective
31	645 239 C1 25 234 R1	TUBE, suction SCREW, hex-hd cap (3)	55	715 477 C1	COVER, protective (Replaces 666 101 C1)
32	707 253 R1	"O" RING, suction tube	56	296 247 R1	"O" RING, connector
33		PUMP ASSY, tractor equipment (Refer to "Tractor Equipment Pumps")	57	9 410 207	CONNECTOR, return
34		COOLER, tractor equipment oil (Refer to "Hydraulic Oil Cooler")	58	645 233 C1	HOSE w/FITTINGS, return (HOSE, 1" ID x 14" long including FITTINGS)
35	368 269 R1	"O" RING, connector (2)	59	9 410 207	CONNECTOR, hose (For models equipped with one section valves)
36	9 410 205	CONNECTOR, oil cooler inlet and outlet (2)	59	662 225 C1	FITTING, hose (For models equipped with 2 or 3 section valves)
37		FITTING, female swivel hose (Order HOSE ASSY, 645 389 C1)		343 900 R1	"O" RING, hose fitting (For models equipped with 2 or 3 section valves)
38	317 262 R1 24 863 R1 25 526 R1	CLAMP, hose SCREW, hex-hd cap NUT	60	296 247 R1	"O" RING
39	645 389 C1	HOSE w/FITTINGS, cooler to tee (HOSE, 5/8" ID x 120" long including FITTINGS) (2)	61	9 410 981	ELBOW, return hose to tank
40	9 410 978	ELBOW	62	296 247 R1	"O" RING, elbow
41	364 885 R1	"O" RING, elbow	63	9 410 209	CONNECTOR, suction
42	635 768 R91	ELBOW, pump outlet	64	301 016 R1	"O" RING, connector
43	297 459 R1	"O" RING, elbow	65	296 247 R1	"O" RING, tee
			66	645 235 C1	TEE, special
			67	9 410 283	ELBOW, check valve to cooler
			68	656 915 C91	VALVE, check

HYDRAULICS

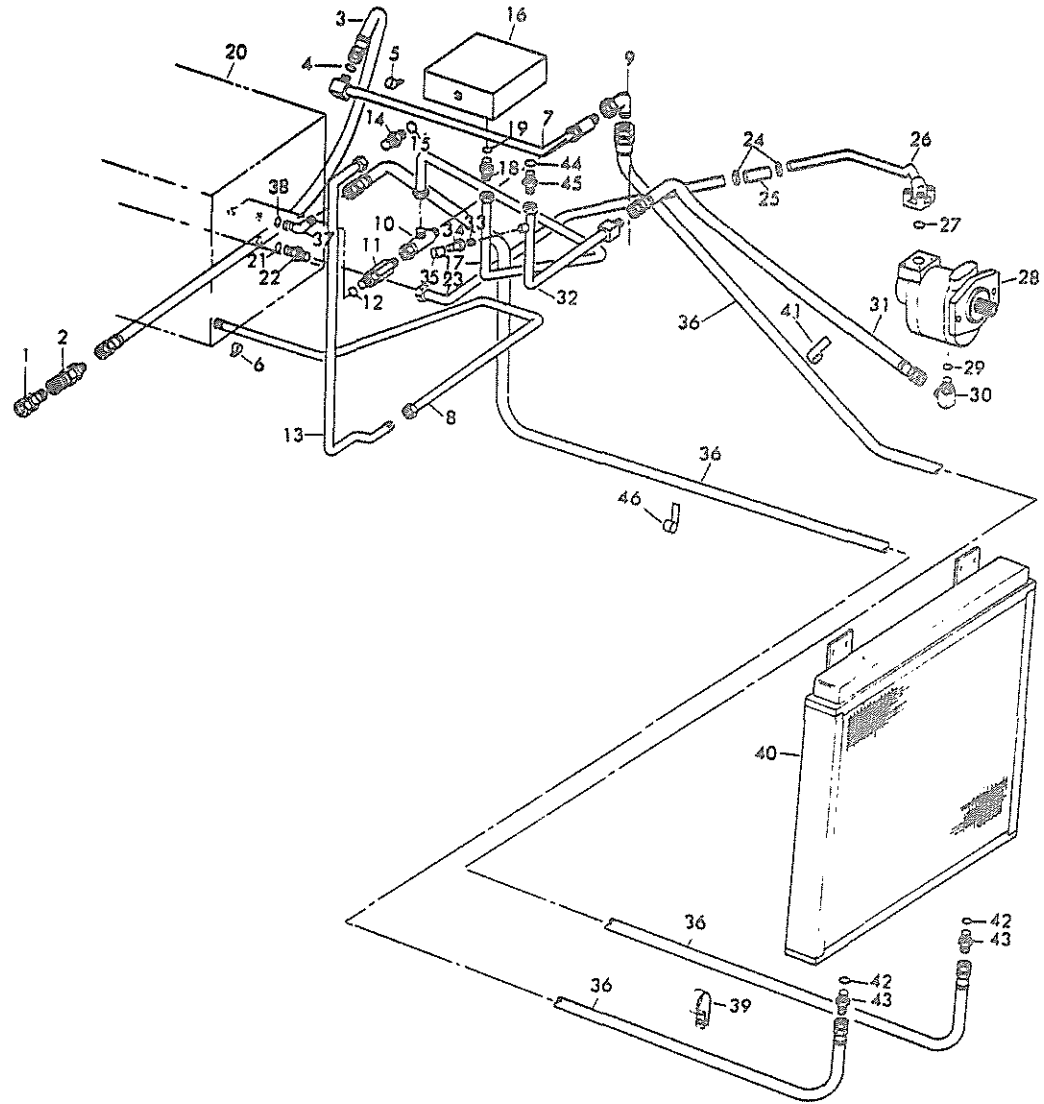
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued (For Backhoe Models) (6257 and Below)			2	HOSE	645 389 C1
			1	HOSE	710 216 C1
			4	NUT	25 522 R1
			3	NUT	25 526 R1
			2	NUT	25 529 R1
69	705 654 C1	TUBE, return (For two or three spool valve)	4	"O" RING	296 247 R1 (B & C)
69	645 234 C1	TUBE, return (For single spool valve)	5	"O" RING	296 247 R1 (A)
70		RESERVOIR, tractor equipment hydraulics (Refer to "Reservoir and Related Parts")	1	"O" RING	343 900 R1 (B & C)
			2	"O" RING	368 269 R1
			2	"O" RING	384 376 R1 (A)
71	668 552 C1	HOSE, return (For two or three spool valve)	1	"O" RING	391 733 R1 (A)
71	645 446 C1	HOSE, return (For one spool valve)	1	PLATE	631 486 C1 (A)
72		FITTING, female swivel hose (Order HOSE ASSY, 645 233 C1)	1	PLATE	707 048 C1 (C)
			2	SPACER	645 253 C1
			1	TEE	9 410 337
			1	TUBE	667 183 C1 (B)
			1	TUBE	667 184 C1 (C)
			1	TUBE	667 185 C1
			1	TUBE	710 219 C1
			1	TUBE	710 220 C1 (A)
			1	TUBE	710 221 C1
			1	VALVE	708 966 C91
			2	WASHER	25 544 R1
			4	WASHER	28 035 K
			6	WASHER	115 093
			4	WASHER	115 314
			2	WASHER	116 121
			2	WASHER	551 658 R1)
BACKHOE HYDRAULIC CONVERSION PACKAGES					
A	710 266 C91	PACKAGE, hydraulic conversion (For one spool valve)(Used w/ATTACHMENT, 710 271 C91)(See NOTE 2)			
B	710 267 C91	PACKAGE, hydraulic conversion (For two spool valve)(Used w/ATTACHMENT, 710 271 C91)(See NOTE 2)			
C	710 268 C91	PACKAGE, hydraulic conversion (For three spool valve)(Used w/ATTACHMENT, 710 271 C91)(See NOTE 2) (Consists of -			
		6 BOLT	24 840 R1		
		4 BOLT	24 849 R1		
		2 BOLT	24 861 R1		
		1 BOLT	24 863 R1		
		2 BOLT	24 886 R1		
		2 BOLT	275 804 R1		
		\$ 1 BOSS			
		1 BRACKET	622 744 C1		
		1 BRACKET	622 745 C1		
		2 BRACKET	645 261 C1		
		1 CLAMP	314 798 R1		
		1 CLAMP	317 262 R1		
		1 CLAMP	345 798 R1		
		2 CONNECTOR	9 410 205		
		1 CONNECTOR	9 410 207		
			(B & C)		
		2 CONNECTOR	9 410 207 (A)		
		1 COOLER	619 933 C1		
		OR			
		1 COOLER	661 451 C91		
		1 DISCONNECT	480 743 R91		
		1 DISCONNECT	480 744 R91		
		1 DRAWING	CZG 2428		
		1 DRAWING	CZG 2432		
			(B & C)		
		1 DRAWING	CZG 2433		
		1 ELBOW	150 776 C91		
		1 ELBOW	9 410 283		
		1 FITTING	662 225 C1		
			(B & C)		

HYDRAULICS

MEMORANDA

HYDRAULICS

TRACTOR EQUIPMENT PIPING (For Backhoe Models 6258 and Up)



CE-113387A

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued (For Backhoe Models 6258 and Up)			20		RESERVOIR, tractor equipment hydraulic (Refer to "Reservoir and Related Parts")
1	1213 369 C91	COUPLING, male (Replaces 480 743 R91)	21	301 016 R1	"O" RING, connector
2	1213 366 C91	COUPLING, female (Replaces 480 744 R91)	22	9 410 209	CONNECTOR, suction tube
3	710 216 C1	HOSE w/FITTINGS, backhoe pressure (HOSE, 1" I.D. x 44" long including FITTINGS)	23	645 096 C1	TUBE, suction (At reservoir)
4	296 247 R1	"O" RING, hose	24	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)
5	314 798 R1 25 526 R1 24 861 R1 116 121	CLAMP, backhoe return tube NUT SCREW, hex-hd cap WASHER, lock	25	645 097 C1	HOSE, suction
6	345 798 R1 25 526 R1 24 861 R1 116 121	CLAMP, backhoe pressure tube NUT SCREW, hex-hd cap WASHER, lock	26	705 613 C1 24 850 R1 115 314	TUBE, suction (At pump) SCREW, hex-hd cap (4) WASHER, lock (4)
7	710 219 C1	TUBE, backhoe return	27	707 253 R1	"O" RING, suction tube
8	667 185 C1	TUBE, backhoe pressure	28		PUMP ASSY, tractor equipment (Refer to "Tractor Equipment Pumps")
9	9 410 283	ELBOW, 90° (Check valve to cooler)	29	296 247 R1	"O" RING, elbow
10	9 410 337	TEE, 90° swivel (check valve to backhoe tube)	30	150 776 C91	ELBOW, 90° pump outlet
11	706 966 C91	VALVE, check	31	645 334 C1	HOSE, w/FITTINGS, pump to pressure tube (HOSE, 3/4" ID x 48" long including FITTINGS)
12	296 247 R1	"O" RING, check valve	32	645 333 C1	TUBE, pressure
13	667 183 C1	TUBE, pressure (For models equipped w/two section valves)	33		NIPPLE, 1/8" x 3/4" pipe
13	667 184 C1	TUBE, pressure (For models equipped w/three section valves)	34	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1)
13	710 220 C1	TUBE, pressure (For models equipped w/one section valves)	34	715 370 C1	PLUG, quick connective
14	9 410 207	CONNECTOR, tube (For models equipped w/one section valves)	35	715 477 C1	COVER, protective (Replaces 666 101 C1)
14	662 225 C1 343 900 R1	FITTING, power beyond (For models equipped w/two or three section valves) "O" RING, power beyond fitting	36	645 389 C1	HOSE, w/FITTINGS, cooler to reservoir (HOSE, 5/8" ID x 120" long including FITTINGS)(2)
15	296 247 R1	"O" RING	37	150 776 C91	ELBOW, 90° cooler to reservoir hose
16		VALVE ASSY, tractor equipment control (Refer to "Tractor Equipment Control Valves")	38	296 247 R1	"O" RING, elbow
17	710 221 C1	TUBE, valve return	39	317 262 R1 25 526 R1 24 863 R1	CLAMP, hose NUT SCREW, hex-hd cap
18	9 410 207	CONNECTOR, return tube to valve	40		COOLER, tractor equipment oil (Refer to "Hydraulic Oil Cooler")
19	296 247 R1	"O" RING, connector	41	122 322 R91 331 775 R1	CLAMP, pressure hose (Replaces 274 088 R91) PAD, rubber (Order STRAP 610 213 C91)
			42	368 269 R1	"O" RING, connector (2)
			43	9 410 205	CONNECTOR, oil cooler inlet and outlet hose (2)

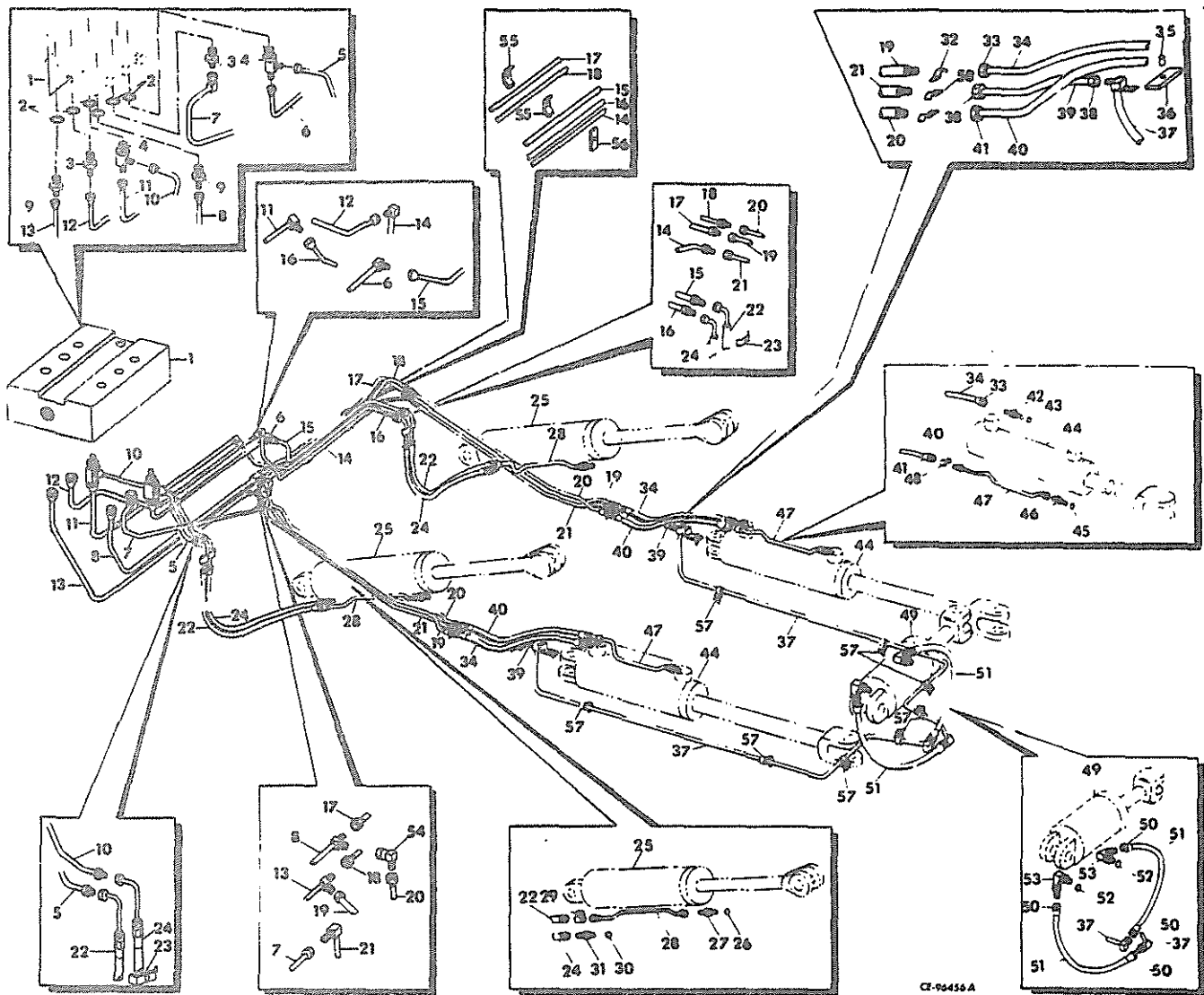
HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued					
(For Model 840 Hydraulic Control Unit)					
(For Backhoe Models 6258 and up)					
44	296 247 R1	"O" RING, connector			
45	380 633 R1	CONNECTOR, pressure tube to pump			
46	317 262 R1	CLAMP, hose			
	25 657 R1	BOLT			
	116 121	WASHER, lock			
	610 213 C91	STRAP, hose clamping (Replaces 327 273 R91)			
	610 213 C91	STRAP, hose (Will work for CLAMP, 274 088 R91 and PAD, 331 775 R1)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PIPING (For Model GBH Inside Arm Hydraulic Bullgrader)



CF-94456 A

1		VALVE, tractor equipment control (Refer to "Tractor Equipment Control Valve")			
2	296 247 R1	"O" RING (6)	12	645 076 C1	TUBE, head end (LH) 5731 and below
3	333 457 R1	CONNECTOR, tilt (Replaces 645 070 R1) (2)	12	705 615 C1	TUBE, head end (LH) 5732 and up
4	645 080 C1	TEE, lift connector (2)	13	645 121 C1	TUBE, valve
5	645 105 C1	TUBE, lift rod port	14	645 077 C1	TUBE, head end crossover
6	645 331 C1	TUBE, rod port at valve	15	645 108 C1	TUBE, rod port crossover
7	645 071 C1	TUBE, rod end (RH) 5731 and below	16	645 109 C1	TUBE, head port crossover
7	705 617 C1	TUBE, rod end (RH) 5732 and up	17	645 118 C1	TUBE, head port crossover
8	645 117 C1	TUBE, valve	18	645 122 C1	TUBE, rod port crossover
9	222 648 H1	CONNECTOR (2)	19	645 120 C1	TUBE, head port (LH)
10	645 107 C1	TUBE, lift head port			
11	645 330 C1	TUBE, head port at valve			

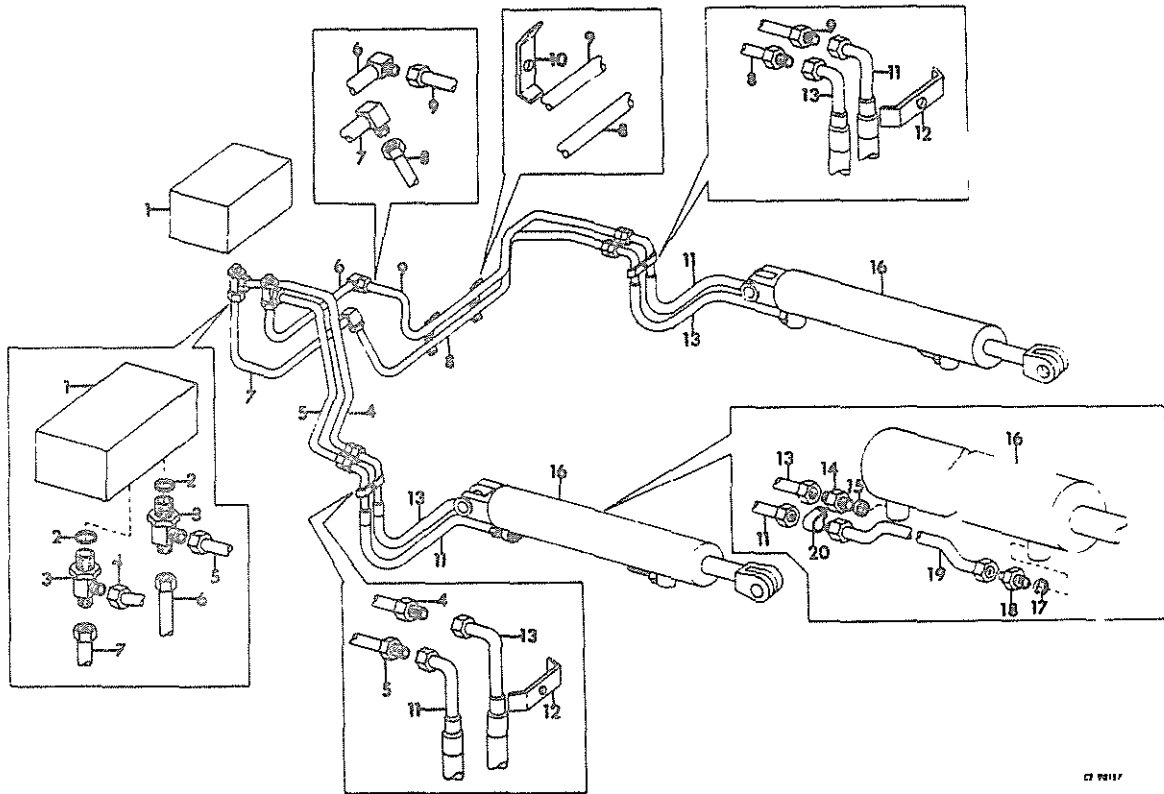
HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT PIPING - Continued (For Model G8H Inside Arm Hydraulic Bullgrader)			37	645 114 C1 24 840 R1 115 093 118 775	TUBE, "C" frame tilt (RH) SCREW, hex-hd cap WASHER, lock WASHER, flat
19	645 123 C1	TUBE, head port (RH)	38		FITTING, jig swivel (Not Furnished Separately)
20	645 124 C1	TUBE, rod port (LH)	39	645 282 C1	HOSE w/two FITTINGS, tilt (HOSE, 1/2" ID x 30-1/2" long including FITTINGS) (2)
20	645 119 C1	TUBE, rod port (RH)	40	645 125 C2	HOSE w/two FITTINGS, angle (HOSE, 1/2" ID x 39-1/2" long including FITTINGS) (2)
21	645 115 C1	TUBE, head end (LH)	41		FITTING, jig swivel (Not Furnished Separately)
21	645 112 C1	TUBE, rod port (RH)	42	9 410 204	CONNECTOR, angle cylinder (2)
22	645 106 C1	HOSE, lift (2)	43	364 885 R1	"O" RING (2)
23	645 093 C1 24 841 R1 115 093	CLAMP, tube (2) SCREW, hex-hd cap (2) WASHER, lock (2)	44		CYLINDER, angle (Refer to "Angle Cylinder") (2)
24	645 106 C1	HOSE, lift (2)	45	364 885 R1	"O" RING (2)
25		CYLINDER, lift (Refer to "Lift Cylinder") (2)	46	9 410 204	CONNECTOR, angle cylinder (2)
26	364 885 R1	"O" RING (2)	47	645 126 C1	TUBE, cylinder extension (LH)
27	9 410 204	CONNECTOR, lift cylinder (2)	47	645 127 C1	TUBE, cylinder extension (RH)
28	645 110 C1	TUBE, cylinder extension (LH)	48	308 581 R1 25 522 R1 115 093	CLAMP, tube (2) NUT (2) WASHER, lock (2)
28	645 111 C1	TUBE, cylinder extension (RH)	49		CYLINDER, tilt (Refer to "Cylinder")
29	645 128 C1 25 522 R1 115 093	CLAMP, tube (2) NUT (2) WASHER, lock (2)	50		FITTING, jig swivel (Not Furnished Separately)
30	364 885 R1	"O" RING (2)	51	645 281 C1	HOSE w/two FITTINGS (HOSE, 1/2" ID x 22" long including FITTINGS) (2)
31	9 410 204	CONNECTOR, lift cylinder (2)	52	364 885 R1	"O" RING (2)
32	308 575 R1 25 522 R1 140 483 H 115 093	CLAMP, tube (4) NUT (4) SCREW, hex-hd cap (4) WASHER, lock (4)	53	9 410 978	ELBOW, tilt cylinder (2)
33		FITTING, jig swivel (Not Furnished Separately)	54	9 410 282	ELBOW, 90° swivel
34	645 125 C2	HOSE w/two FITTINGS, angle (HOSE, 1/2" ID x 39-1/2" long including FITTINGS)	55	645 069 C1 25 522 R1 24 854 R1 115 093 12 201 R1	CLAMP, tube (4) NUT (2) SCREW, hex-hd cap (2) WASHER, lock (2) WASHER, flat (4)
35	645 342 C1	SPACER (2)	56	645 068 C1	SPACER, tube mounting (2)
36	645 347 C1 24 543 R1 115 093	CLAMP, angle hose (2) SCREW, hex-hd cap (2) WASHER, lock (2)	57	308 575 R1 26 099 R1 115 093	CLAMP, tube (8) SCREW, hex-hd cap (8) WASHER, lock (8)
37	645 116 C1 24 840 R1 115 093 118 775	TUBE, "C" frame tilt (LH) SCREW, hex-hd cap WASHER, lock WASHER, flat	58	308 575 R1	CLAMP, tube (2)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT PIPING
(For Model 8G2 Outside Arm Bullgrader)

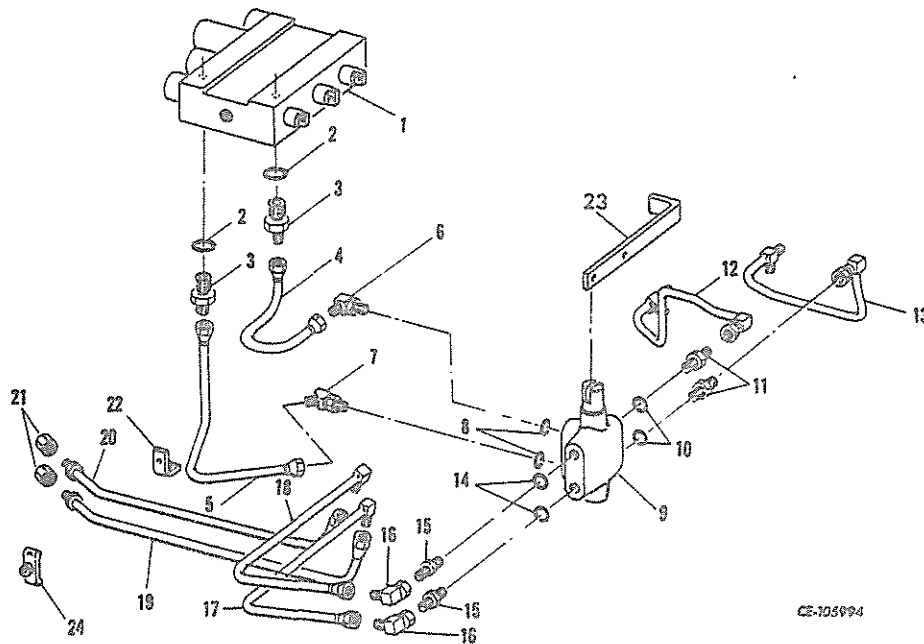


1		VALVE, tractor equipment control (Refer to "Tractor Equipment Control Valve")	12	645 093 C1 24 841 R1 115 093	CLAMP, tube (2) SCREW, hex-hd cap (2) WASHER, lock (2)
2	296 247 R1	"O" RING (2)	13	645 106 C1	HOSE w/FITTINGS, lift (HOSE, 1/2" ID x 29" long including FITTINGS) (2)
3	645 060 C1	TEE, lift connector (2)			
4	645 107 C1	TUBE, lift head port	14	9 410 204	CONNECTOR, lift cylinder (2)
5	645 105 C1	TUBE, lift rod port	15	364 885 R1	"O" RING (2)
6	645 331 C1	TUBE, rod port at valve	16		CYLINDER, lift (Refer to "Lift Cylinder")
7	645 330 C1	TUBE, head port at valve	17	364 885 R1	"O" RING (2)
8	645 109 C1	TUBE, head port crossover	18	9 410 204	CONNECTOR, lift cylinder (2)
9	645 108 C1	TUBE, rod port crossover	19	645 111 C1	TUBE, cylinder extension (RH)
10	645 089 C1 25 522 R1 24 842 R1 115 093 12 201 R1	CLAMP, tube (2) NUT (2) SCREW, hex-hd cap (2) WASHER, lock (2) WASHER, flat (4)	19	645 110 C1	TUBE, cylinder extension (LH)
11	645 106 C1	HOSE w/FITTINGS, lift (HOSE, 1/2" ID x 29" long including FITTINGS) (2)	20	645 128 C1 25 522 R1 115 093	CLAMP, tube (2) NUT (2) WASHER, lock (2)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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REAR AUXILIARY CIRCUIT WITH DIVERTER VALVE (Not used with Backhoe Models)

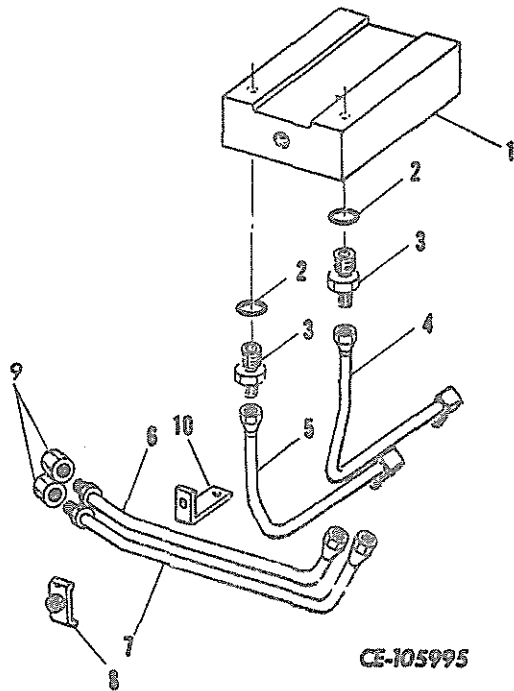


	622 905 C91	ATTACHMENT, rear auxiliary circuit w/Diverter Valve (Used with three Spool Tractor Equipment Control Valve (When used w/ROPS Canopy Arched Canopy Mounts must be used) (See NOTE 2) (Consists of -			
1		VALVE ASSY, equipment control (Refer to "Equipment Control Valve") (Not part of ATTACHMENT)	14	368 269 R1	"O" RING (2)
2	296 247 R1	"O" RING (2)	15	9 410 205	CONNECTOR (2)
3	380 633 R1	CONNECTOR (2)	16	9 410 283	ELBOW, 90° (2)
4	645 129 C1	TUBE, valve to diverter (Main A)	17	645 135 C1	TUBE, converter to ripper circuit
5	645 130 C1	TUBE, valve to diverter (Main B)	18	645 134 C1	TUBE, diverter to ripper circuit
6	9 410 979	ELBOW, 90°	19	645 633 C1	TUBE, ripper
7	9 411 107	ELBOW, 45°	20	645 632 C1	TUBE, ripper
8	368 269 R1	"O" RING (2)	21	9 403 374	CAP, 37° flared tube (2)
9		VALVE, diverter (Refer to "Diverter Valve")	22	653 698 C1	ANGLE, tube clamp
	9 413 953	NUT, stover lock (2)		24 842 R1	SCREW, hex-hd cap
	277 232 R1	SCREW, hex-hd cap (2)		63 115 D	WASHER, flat
10	368 269 R1	"O" RING (2)	23	623 792 C1	LEVER, diverter valve
11	9 410 205	CONNECTOR (2)		42 947 V	PIN, rod end
12	645 141 C1	TUBE, diverter to angle circuit		119 117	PIN, 1/2" cotter
13	645 142 C1	TUBE, diverter to angle circuit		119 981	PIN, 3/8" cotter
			24	653 508 C1	CLAMP, tube
				24 842 R1	SCREW, hex-hd cap
				115 093	WASHER, lock
				626 240 C1	PRODUCT GRAPHIC, diverter control
				626 235 C1	PRODUCT GRAPHIC, ripper control

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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REAR AUXILIARY CIRCUIT
(Not Used With Backhoe Models)



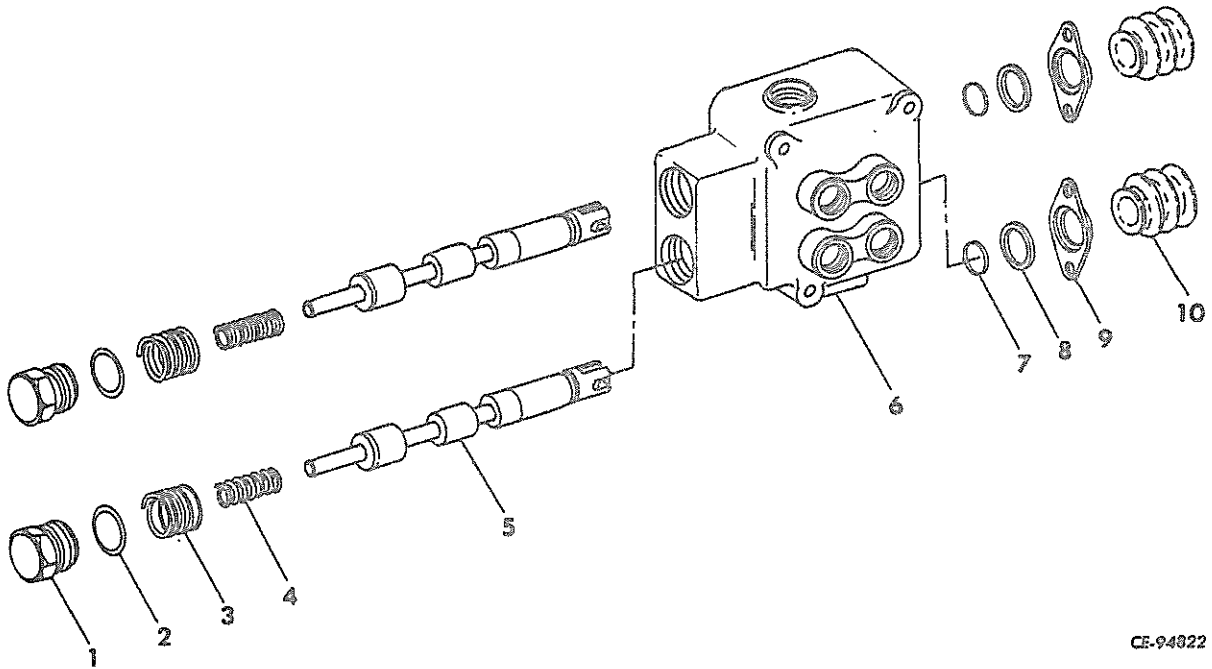
8	653 508 C1 24 842 R1 115 093	CLAMP, tube SCREW, hex-hd cap WASHER, lock
9	9 403 374	CAP, 37° flared tube (2)
10	653 698 C1	ANGLE, tube clamp (A)
10	653 696 C1 24 842 R1 63 115 D	ANGLE, tube clamp (B) SCREW, hex-hd cap WASHER, flat
	IZG-9430	DRAWING, rear auxiliary circuit installation
	626 235 C1	PRODUCT GRAPHIC, ripper control

A	622 874 C91	ATTACHMENT, rear auxiliary circuit (Used with two Spool Tractor Equipment Control Valve) (When used w/ROPS Canopy, Arched Canopy Mounts must be used) (See NOTE 2)
B	645 164 C91	ATTACHMENT, rear auxiliary circuit (Used with two Spool Tractor Equipment Control Valve with auxiliary third section valve) (When used w/ROPS Canopy, Arched Canopy Mounts must be used) (See NOTE 2) (Consists of -
1		VALVE, equipment control (Refer to "Equipment Control Valve") (Not part of ATTACHMENT)
2	296 247 R1	"O" RING (2)
3	380 633 R1	CONNECTOR (2)
4	645 146 C1	TUBE, valve to ripper (Port B) (A)
4	645 143 C1	TUBE, valve to ripper (Port B) (B)
5	645 145 C1	TUBE, valve to ripper (Port A) (A)
5	645 144 C1	TUBE, valve to ripper (Port A) (B)
6	645 633 C1	TUBE, ripper
7	645 632 C1	TUBE, ripper

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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STEERING CONTROL VALVE



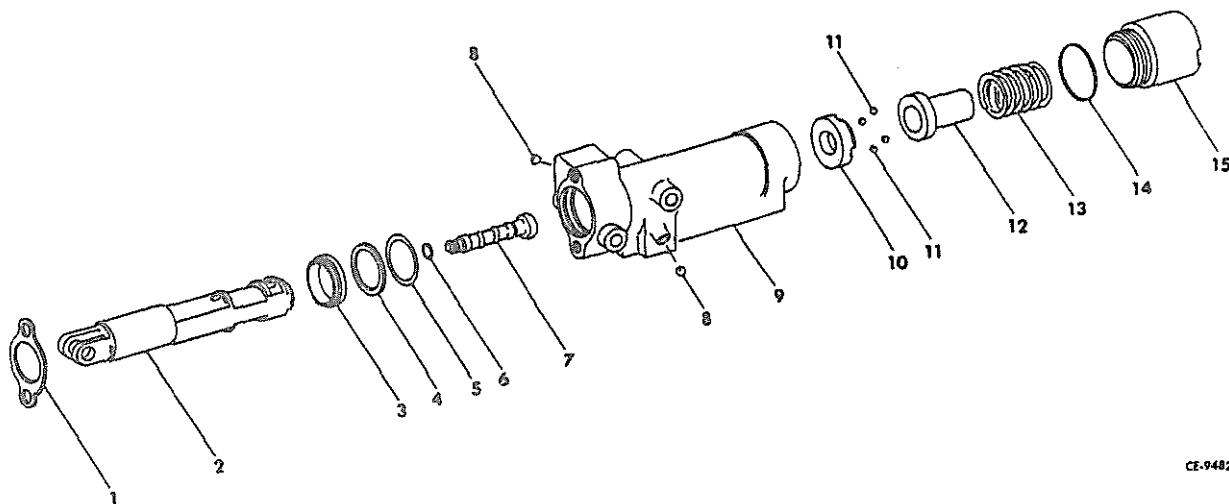
CE-94822

	621 804 C91	VALVE ASSY, steering control	622 831 C91	PACKAGE, steering control valve sealing ring service (x)	
	25 494 R1	NUT (3)		(Consists of -	
	116 120	SCREW, hex-hd cap (3)		\$ 2 BREATHER	
	25 520 R1	WASHER, lock (3)		2 RING	350 667 R1
		(Composed of -		\$ 2 RING	
1	622 684 C1	PLUG, valve (2)		\$ 2 SEAL)	
2	350 667 R1	"O" RING, plug sealing (2)			
3	622 683 C1	SPRING, outer (2)			
4	622 682 C1	SPRING, inner (2)			
5		SPOOL, valve (Not Furnished Separately)			
6		BODY (Not Furnished Separately)			
7		RING, spool sealing (Order PACKAGE, 622 831 C91) (2)			
8		BREATHER (Order PACKAGE, 622 831 C91) (2)			
9	622 680 C1	RETAINER, breather and dust seal (2)			
	20 991 R1	SCREW, pan hd mach (4)			
10		SEAL, dust (Order PACKAGE, 622 831 C91) (2)			

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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PILOT CONTROL VALVE



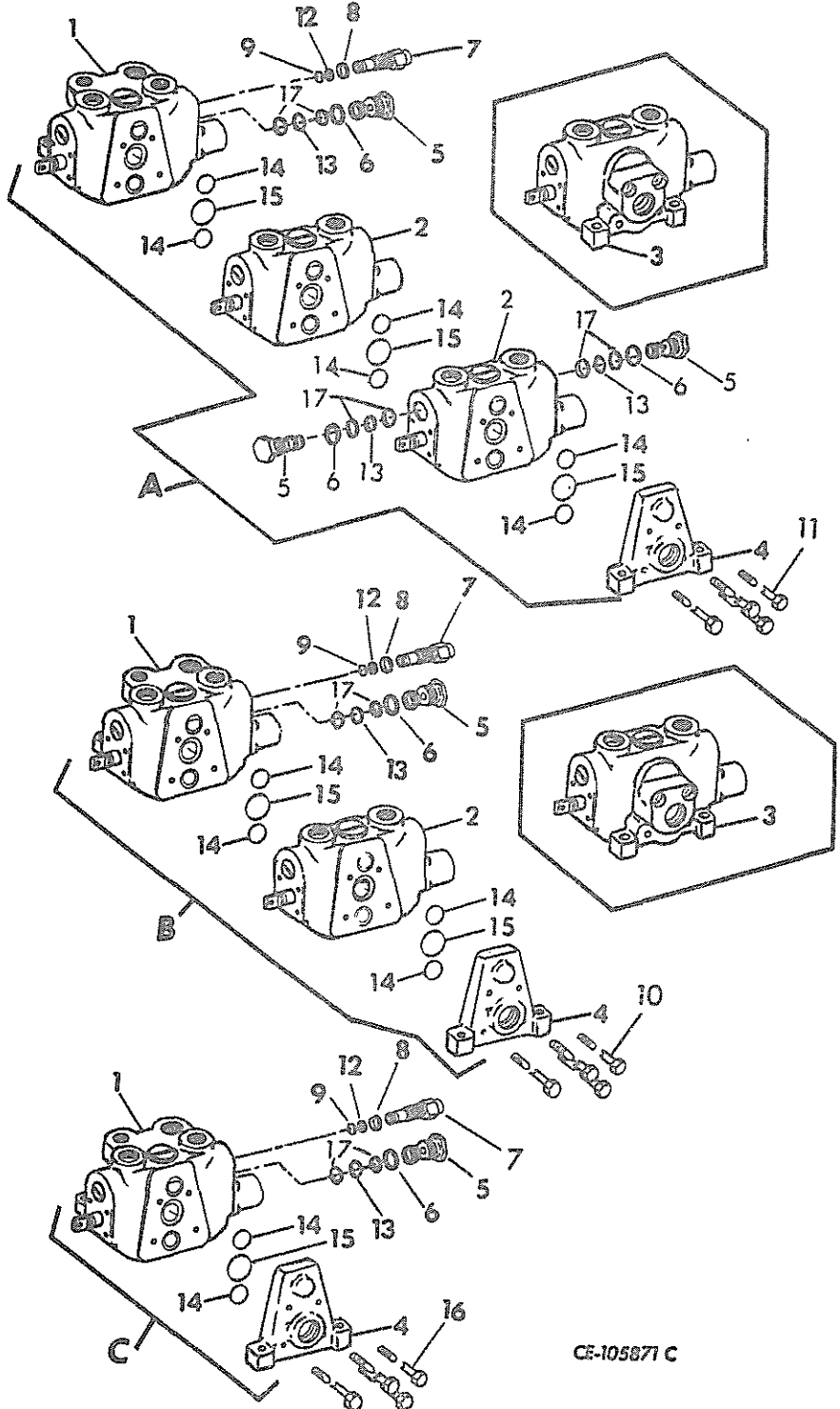
CE-94823

	622 325 C91	VALVE ASSY, pilot control		15	622 332 C1	HOUSING, detent
	617 113 C1	SPACER, mounting (4)			622 829 C91	PACKAGE, pilot control valve sealing ring service (x)
	24 841 R1	SCREW, hex-hd cap (4)				(Consists of -
	115 093	WASHER, lock (4)				\$ 4 RING
		(Composed of -				\$ 1 WIPER)
1	617 051 C1	RETAINER, spool seal				
	25 653 R1	SCREW, hex-hd cap (2)				
2		SPOOL (Not Furnished Separately)				
3		WIPER, spool (Order PACKAGE, 622 829 C91)				
4		RING, square sealing (Order PACKAGE, 622 829 C91)				
5		RING, spool sealing (Order PACKAGE, 622 829 C91)				
6		RING, detent cam sealing (Order PACKAGE, 622 829 C91)				
7	622 328 C1	CAM, detent				
8		BALL, housing sealing (Not Furnished Separately)				
9		HOUSING (Not Furnished Separately)				
10	622 329 C1	RETAINER, detent ball				
11	17 010 R1	BALL, detent (Replaces 16 010 R1) (4)				
12	622 330 C1	SLEEVE, detent				
13	384 492 R1	SPRING, detent				
14		RING, detent housing sealing (Order PACKAGE, 622 829 C91)				

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT CONTROL VALVES



CE-105871 C

HYDRAULICS

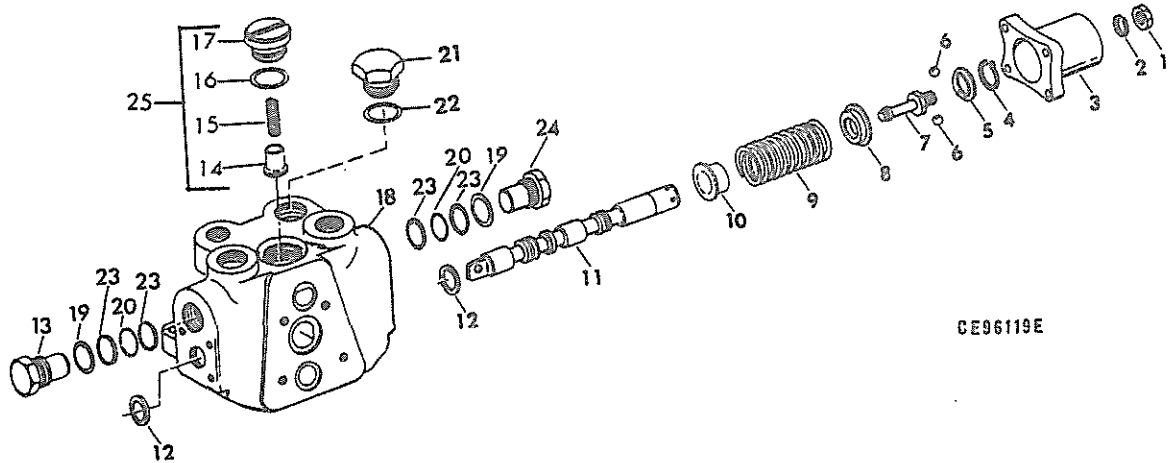
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT CONTROL VALVES - Continued			17	631 240 C1	RING, back-up (See NOTE at end of list)
A		SERVICE PARTS, for three spool equipment control valve	9 410 363		PLUG (Not Furnished As Part of VALVE) (2 VALVE B)
B		SERVICE PARTS, for two spool equipment control valve	296 247 R1		"O" RING (Not Furnished As Part of VALVE) (2 VALVE B)
C		SERVICE PARTS, for single spool equipment control valve			NOTE - Not Furnished Separately. Part Number Listed to Show Location of Part. Order Seal Kit Required. See "Alphabetical Index" for Location of Seal Kits.
	25 526 R1	NUT (3)			
	24 865 R1	SCREW, hex-hd cap (3)			
	116 121	WASHER, lock (3)			
	41 509 D	WASHER, flat (3)			
1	625 900	SECTION, inlet (Refer to "Equipment Control Valve Inlet Section")			
2	631 770 C	SECTION, standard (Refer to "Equipment Control Valve Standard and Outlet Section") (2 for A) (1 for B)			
3		SECTION, outlet (Refer to "Equipment Control Valve Standard and Outlet Section") (A) (B)			
4	631 486 C1	PLATE, end (Backhoe models)			
4	625 194 C91	PLATE, end (Not for Backhoe Models)			
5	631 241 C1	VALVE ASSY, anti-cavitation upper w/two SEAL RINGS, two Back-up RINGS, and one Ball and Seat (1 for B and C, 3 for A)			
6	343 900 R1	RING, seal (See NOTE at end of list)			
7	625 908 C1	CARTIDGE, relief			
8	297 459 R1	RING, seal (See NOTE at end of list)			
9	393 349 R1	RING, seal (See NOTE at end of list)			
10	186 284 120 381	SCREW, hex-hd cap (4) (B) WASHER, lock (4)			
11	187 491 120 381	SCREW, hex-hd cap (4) (A) WASHER, lock (4)			
12	877 737 C1	RING, back-up (See NOTE at end of list)			
13	625 096 C1	RING, seal (See NOTE at end of list)			
14	384 376 R1	RING, seal (See NOTE at end of list) (4 for VALVE B and C; 6 for VALVE A)			
15	391 733 R1	RING, seal (See NOTE at end of list) (2 for VALVE B and C; 3 for VALVE A)			
16	179 847 120 381	SCREW, hex-hd cap (4) (C) WASHER, lock (4)			

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REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT CONTROL VALVE INLET SECTION



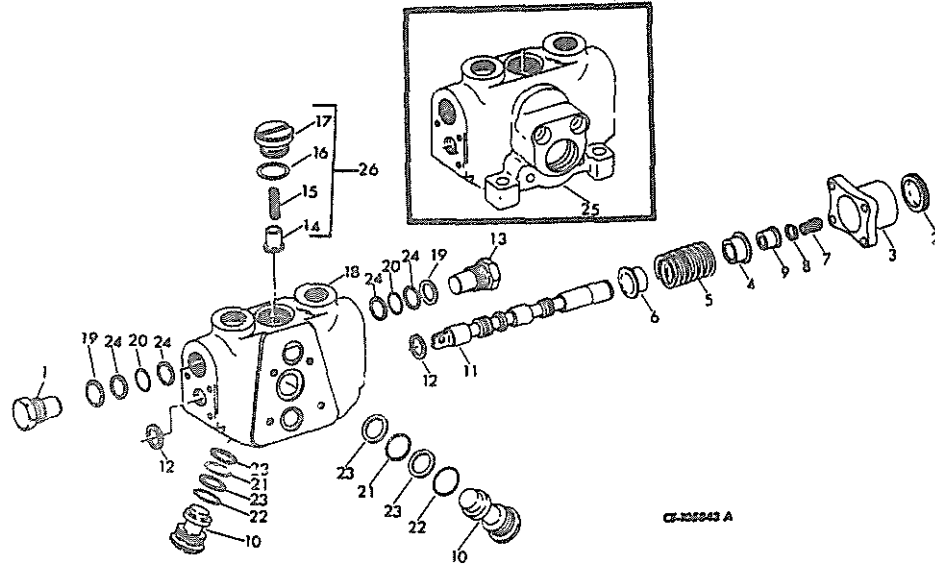
	625 900 C92	SECTION, equipment control valve inlet (Composed of -		16	\$	RING, seal (Order KIT, 625 903 C1)
1	272 122	NUT, jam		17	\$	PLUG, lift check
2	121 621	WASHER, lock		18	\$	BODY, valve
3	625 179 C1 114 357 121 637	BONNET, float SCREW, fl-soc-hd mach (4) WASHER, lock (4)		19	343 900 R1	RING, seal (See NOTE at end of list) (2)
4	269 181 R1	RING, snap		20	625 096 C1	RING, seal (See NOTE at end of list) (2)
5	625 180 C1	RETAINER, detent ball		21	625 191 C1	PLUG, outlet
6	17 007 R1	BALL, detent (4)		22	625 192 C1	RING, back-up
7	625 182 C2	ADAPTER, float detent		23	631 240 C1	RING, back-up (See NOTE at end of list) (4)
8	625 181 C1	COLLAR, detent stop		24	631 924 C1	PLUG, upper port option (shipping)
9	625 183 C1	SPRING, centering			625 903 C1	KIT, internal section seal (Consists of -
10	625 184 C1	COLLAR, stop			\$2	RING 625 176 C1
11	\$	SPOOL, float			\$1	RING 669 588 R1)
12	\$	SEAL, quad ring (Order KIT 625 903 C1) (2)		25	631 932 C92	CHECK VALVE ASSY., load
13	631 924 C1	PLUG, upper port option (if equipped)				
14	\$	POPPET, lift check				
15	\$	SPRING, lift check				

NOTE - Not Furnished Separately.
Part Number Listed to Show Location of Part. Order Seal Kit Required. See "Alphabetical Index" for Location of Seal Kits.

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACTOR EQUIPMENT CONTROL VALVE STANDARD AND OUTLET SECTION



		SECTION A, Outlet (Order the following -	9	625 313 C1	COLLAR, spool
	1	SECTION	10	631 928 C1	PLUG, lower anti-cavitation (if equipped) (2)
	1	KIT			
		Models w/o Backhoe			
	1	PLATE	11	\$	SPOOL, float
		Models w/Backhoe			
	1	PLATE	12	\$	SEAL, quad ring (Order KIT 625 903 C1) (2)
	1	ADAPTER			
	1	RING			
			13	631 924 C1	PLUG, upper port option (if equipped)
	631 770 C91	SECTION B, equipment control valve standard (Composed of -	14	\$	POPPET, lift check
1	631 924 C1	PLUG	15	\$	SPRING, lift check
2	625 309 C1	DIAPHRAGM, bonnet	16	\$	RING, seal (Order KIT, 625 903 C1)
3	625 312 C1	BONNET, float	17	\$	PLUG, lift check
	114 357	SCREW, fl-soc-hd mach (4)	18	\$	BODY, valve (B)
	121 637	WASHER, lock (4)			
4	625 314 C1	COLLAR, stop	19	343 900 R1	RING, seal (See NOTE at end of list) (2)
5	625 319 C1	SPRING, centering	20	625 096 C1	RING, seal (See NOTE at end of list) (2)
6	625 314 C1	COLLAR, stop	21	384 943 R1	RING, seal (See NOTE at end of list) (2)
7	426 368	SCREW, hex-soc-hd			
8	625 317 C1	WASHER, lock			

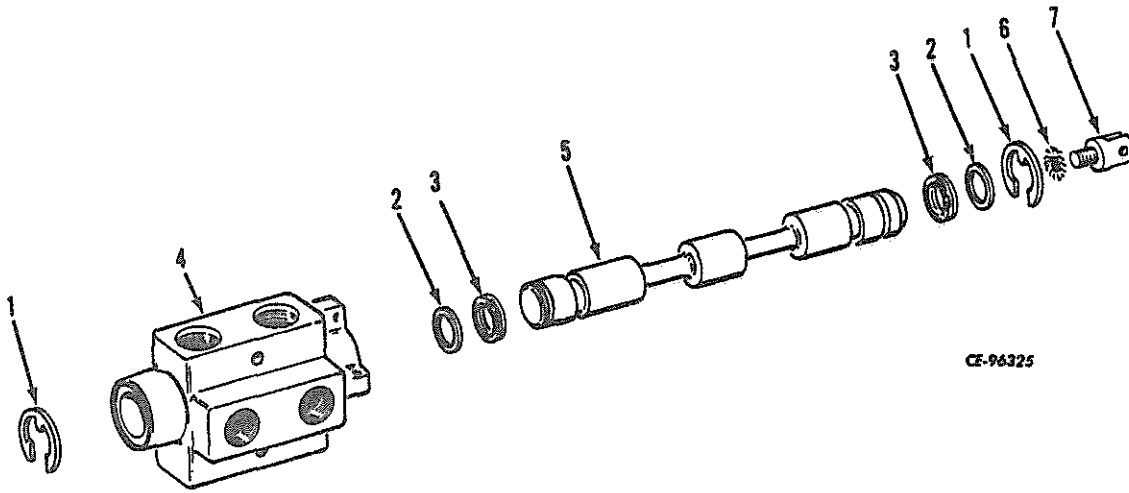
HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACTOR EQUIPMENT CONTROL VALVE STANDARD AND OUTLET SECTION - Continued			625 910 C1	KIT, master seal (For two spool valves) (Consists of -	
				\$1 RING	625 192 C1
				\$3 RING	669 588 R1
22	393 349 R1	RING, seal (See NOTE at end of list) (2)		\$1 RING	625 186 C1
				\$1 RING	355 966 R1
				\$1 RING	877 737 C1
23	631 243 C1	WASHER (See NOTE at end of list) (4)		\$2 RING	187 518 H1
				\$4 RING	343 900 R1
				\$4 RING	625 096 C1
24	631 240 C1	WASHER (See NOTE at end of list) (4)		\$2 RING	384 376 R1
				\$1 RING	391 733 R1
				\$4 RING	625 176 C1
25		BODY, valve (Not Furnished Separately) (A)		\$1 RING	384 943 R1
				\$8 RING	631 240 C1
				\$2 RING	631 243 C1)
26	631 932 C92	CHECK VALVE ASSY., Load			
	625 903 C1	KIT, internal section seal (Consists of -	625 909 C2	KIT, master seal (For one spool valves) (Consists of -	
		\$2 RING 625 176 C1		\$1 RING	625 192 C1
		\$1 RING 669 588 R1		\$2 RING	669 588 R1
				\$1 RING	625 186 C1
				\$1 RING	355 966 R1
				\$1 RING	877 737 C1
				\$1 RING	187 518 H1
				\$2 RING	343 900 R1
				\$2 RING	625 096 C1
				\$2 RING	384 376 R1
				\$1 RING	391 733 R1
				\$2 RING	625 176 C1
				\$4 RING	631 240 C1)
		NOTE - Furnished Separately. Part Number Listed to Show Location of Part. Order Seal Kit Required. See "Alphabetical Index" for Location of Seal Kits.			
TRACTOR EQUIPMENT CONTROL VALVE SEAL KIT					
	625 911 C2	KIT, master seal (For three spool valves) (Consists of -	625 913 C2	KIT, upper option port seal (6 for 3 spool valve; 4 for 2 spool valve; 2 for 1 spool valve) (Consists of -	
		\$1 RING 625 192 C1		\$1 RING	343 900 R1
		\$3 RING 669 588 R1		\$1 RING	625 096 C1
		\$1 RING 625 186 C1		\$2 RING	631 240 C1)
		\$1 RING 355 966 R1			
		\$1 RING 877 737 C1	625 912 C1	KIT, between sections seal (2 for 3 spool; 1 for 2 spool; 1 for 1 spool) (Consists of -	
		\$2 RING 187 518 H1		\$2 RING	384 376 R1
		\$4 RING 343 900 R1		\$1 RING	391 733 R1)
		\$4 RING 625 096 C1			
		\$2 RING 384 376 R1	625 914 C2	KIT, lower anti-cavitation seal (2 for 3 spool; 1 for 2 spool) (Consists of -	
		\$1 RING 391 733 R1		\$1 RING	384 943 R1
		\$4 RING 625 176 C1		\$1 RING	187 518 H1
		\$1 RING 384 943 R1		\$2 RING	631 243 C1)
		\$8 RING 631 240 C1			
		\$2 RING 631 243 C1)	625 915 C1	KIT, master seal relief (Consists of -	
				\$1 RING	625 192 C1
				\$1 RING	669 588 R1
				\$1 RING	625 186 C1
				\$1 RING	355 966 R1
				\$1 RING	877 737 C1
				\$1 RING	187 518 H1)

HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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DIVERTER VALVE
(For Rear Auxiliary Circuit with Diverter Valve Attachment)



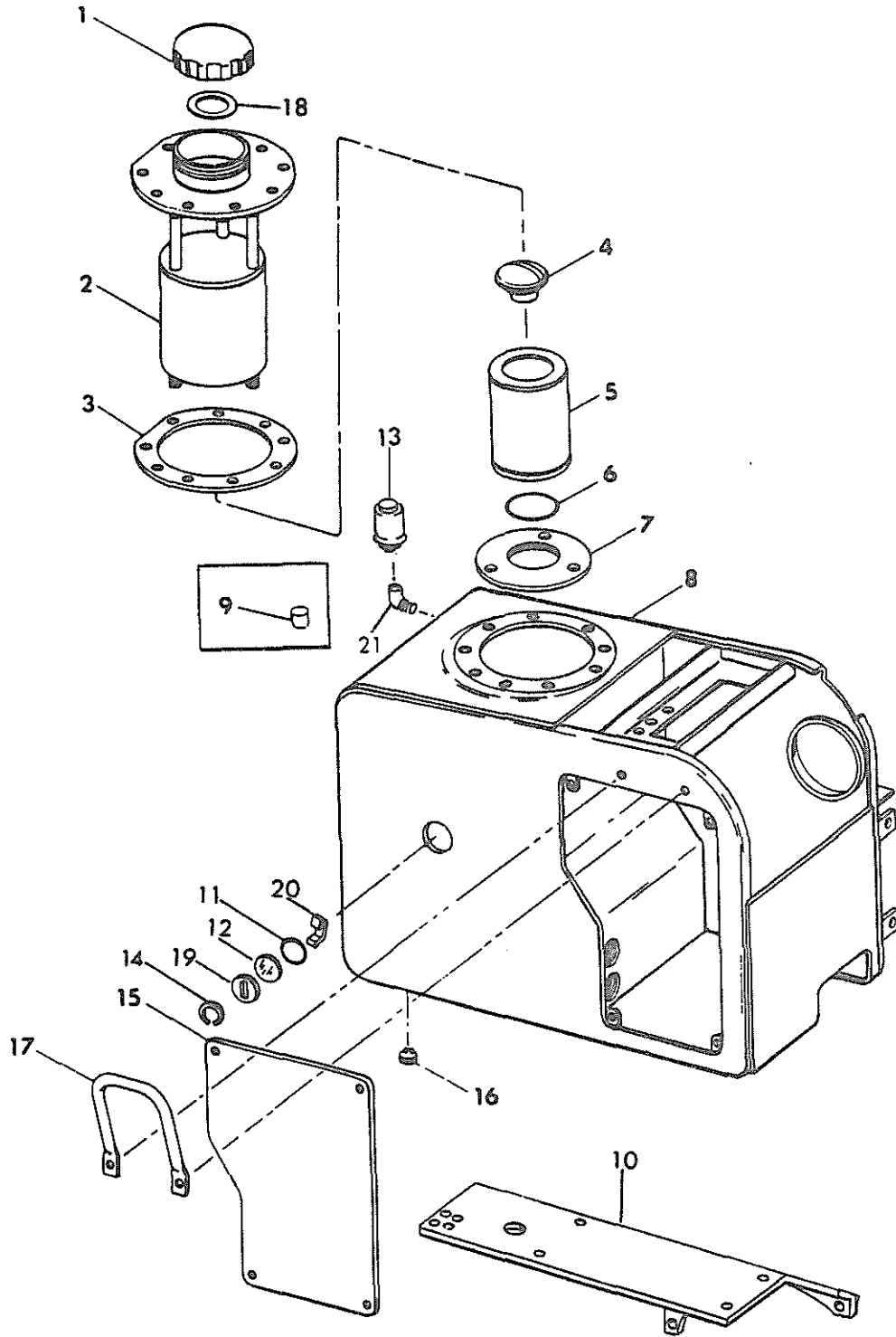
CE-96325

	625 094 C91	VALVE, diverter (For Rear Auxiliary Circuit w/Diverter Valve) (Composed of -
1	669 545 R1	RING, snap (2)
2	634 856 C1	WASHER, back-up (2)
3	669 544 R1	SEAL, quad ring (2)
4		BODY (Not Furnished Separately)
5		SPOOL (Not Furnished Separately)
6	138 489	WASHER, ext. tooth lock
7	669 547 R1	ADAPTER, handle

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REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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HYDRAULIC RESERVOIR



CE-105839A

HYDRAULICS

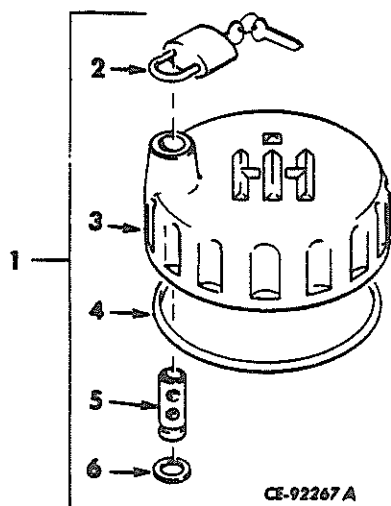
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
HYDRAULIC RESERVOIR - Continued			16	280 668 R91	PLUG, magnetic
			17	621 741 C1	HANDLE, assist
1	701 922 C2	CAP w/GASKET, 618 688 C2, filler		24 860 R1	SCREW, hex-hd cap (2)
				116 121	WASHER, lock (2)
2	623 011 C1	SHROUD, filter	17	334 664 R1	HANDLE, assist
	140 483	SCREW, hex-hd cap (9)		25 496 R1	SCREW, hex-hd cap (2)
	115 093	WASHER, lock (9)		115 093	WASHER, lock (2)
3	623 012 C1	GASKET, shroud	18	618 688 C2	GASKET, filler cap
4	386 121 R92	VALVE, by-pass	19	656 105 C1	WASHER, guard (Replaces 656 475 C1)
5	623 017 C1	ELEMENT, filter	20	656 106 C1	REFLECTOR
6	254 091 R1	"O" RING	21	141 621	ELBOW
					6258 and up
7	656 340 C1	PLATE, filter retainer		883 170 C91	KIT, seal repair (For Valve, 657 882 C91)
	18 423 R1	NUT, Esna lock (3)			(Consists of -
8	666 185 C1	RESERVOIR, hydraulic (For all models w/o backhoe)(Order RESERVOIR, 706 825 C1)			\$ 1 RING, lock
		6257 and below			\$ 1 SEAL, filter
8	666 187 C1	RESERVOIR, hydraulic (For backhoe models)			\$ 1 SEAL, poppet
		6257 and below	9 410 363	PLUG, 1" tube (For all models except backhoe	\$ 1 SEAL, sleeve)
	24 873 R1	SCREW, hex-hd cap (3)			6258 and up
	25 537 R1	WASHER, flat (3)	296 247 R1	"O" RING, plug	
8	706 825 C1	RESERVOIR, hydraulic (Will work for RESERVOIR, 666 185 C1. Also used w/backhoe models 6258 and up)			
	24 873 R1	SCREW, hex-hd cap (4)			
	25 537 R1	WASHER, flat (4)			
9	104 938	PLUG, No. 2 cork (2)			
		6257 and below			
10	668 199 C3	BRACKET, reservoir support			
	24 890 R1	BOLT, (4)			
	25 548 R1	WASHER, hardened (4)			
11	22 288 R1	"O" RING			
12	656 104 C2	LENSE, sight gauge			
13	657 882 C91	VALVE, vacuum pressure relief (See KIT, 883 170 C91)(Optional w/Valve, 659 078 C91)			
13	659 078 C91	VALVE, vacuum pressure relief (Optional w/Valve, 657 882 C91)			
14	23 914 R1	RING, snap			
15	626 378 C1	PLATE, access			
		6257 and below			
	24 839 R1	SCREW, hex-hd cap (5)			
	115 093	WASHER, lock (5)			
15	706 827 C1	PLATE, access (Not used w/three spool backhoe models)			
		6258 and up			
	25 496 R1	SCREW, hex-hd cap (4)			
	115 093	WASHER, lock (4)			
15	707 048 C1	PLATE, access (Used w/Hydraulic Conversion Package 710 268 C91)			

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REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LOCKING CAP

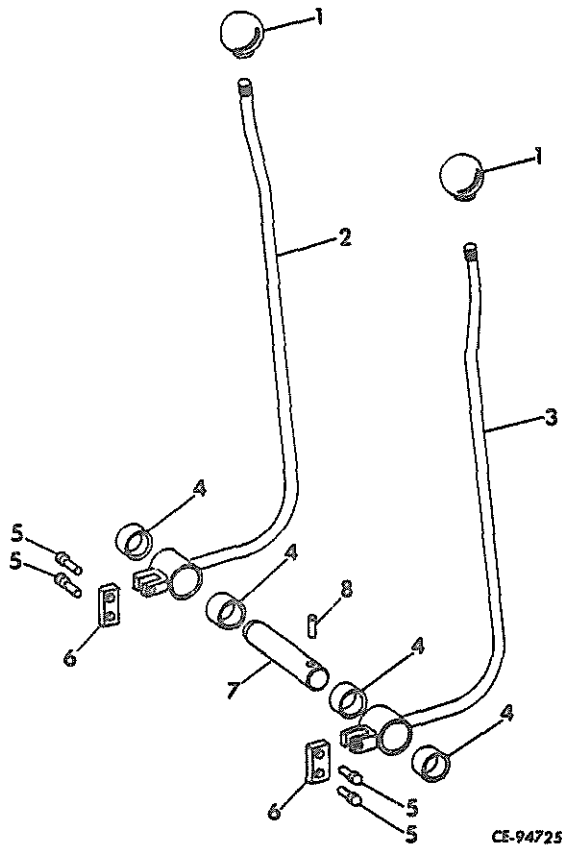


1	628 156 C91	CAP, hydraulic tank filler locking (Used only w/CAP, 701 922 C2)
2	650 382 C91	PADLOCK w/KEYS
3		CAP, outer locking (Not Furnished Separately)
4	309 056 R1 OR	RING, retaining
4	300 027 R1	RING, retaining
5		PIN, locking cap (Not Furnished Separately)
6	23 221 R1	RING, retaining

HYDRAULICS

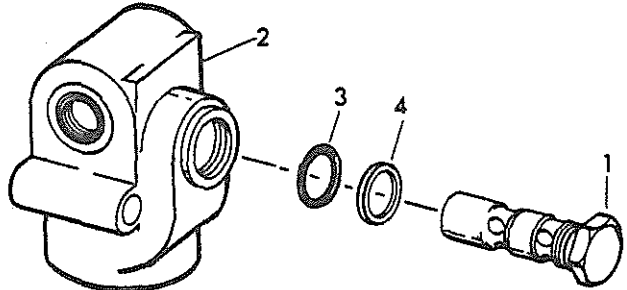
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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STEERING CONTROLS



1	264 097 R2	BALL, hand lever (2)
2	622 033 C91	LEVER w/two BEARING, 621 050 C91 - LH steering hand
3	622 034 C91	LEVER w/two BEARING, 621 050 C91 - RH steering hand
4	621 050 C91	BEARING (4)
5	432 759	PIN, rod end (4)
	435 864	PIN, cotter (4)
6	621 052 C1	LINK, steering lever (2)
7	621 051 R1	SHAFT, hand lever
8	357 557 R1	PIN, coil

RELIEF VALVE (For Backhoe Model 3142 Series A (6257 and Below))



	662 255 C91	VALVE ASSY, relief (Composed of -	
1	537 859 C91	VALVE, relief	
2		BODY (Order VALVE ASSY.)	
3	362 796 R1	"O" RING, 15/16" ID (Part of KIT, 637 441 C91)	
4	535 606 R1	WASHER, back-up (Part of KIT, 637 441 C91)	
	637 441 C91	KIT, "O" ring repair (Consists of -	
	+ \$	1 RING	362 796 R1
		1 RING	
		1 WASHER	535 606 R1)

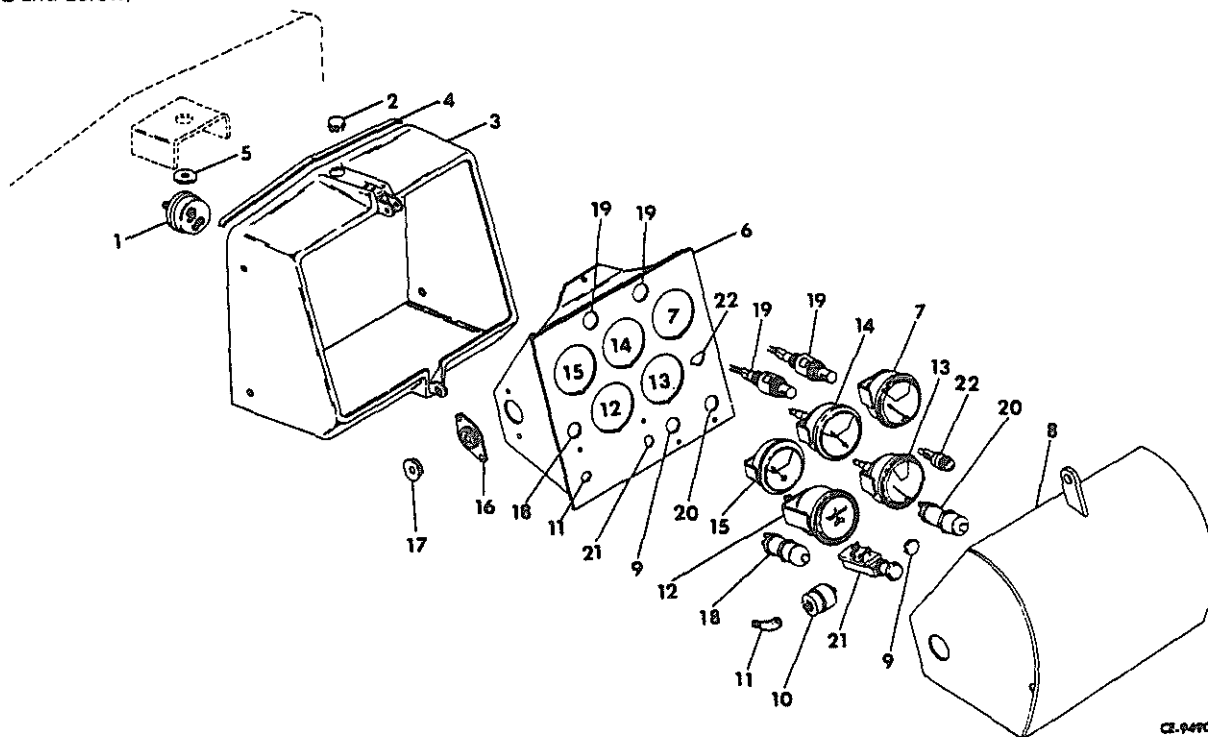
+ - Not used w/Valve Assy, 662 255 C91.

**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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INSTRUMENTS AND INSTRUMENT PANEL (6062 and below)



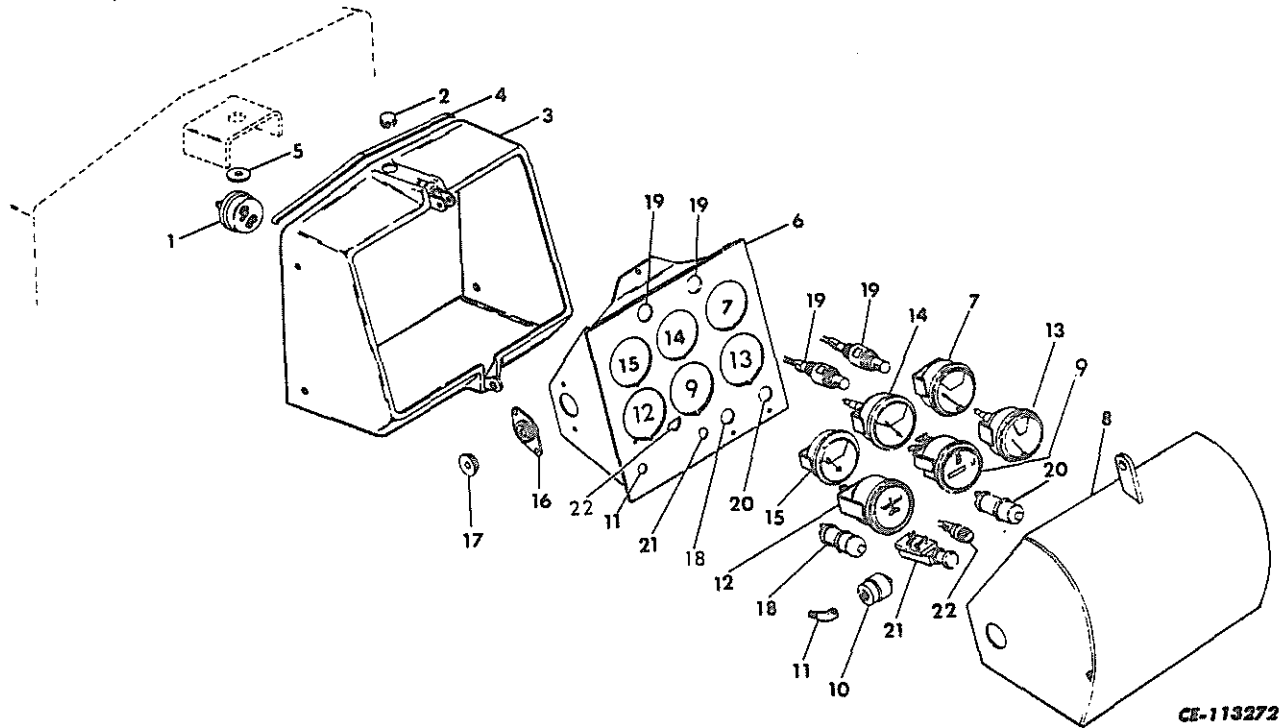
CL 94905

1	663 392 C1	SWITCH, hour meter pressure	13	668 495 C1 OR 713 169 C1 384 554 R1	GAUGE, engine temperature (Replaces 702 221 C1) GAUGE, engine temperature CLIP (On cylinder head cover front and rear bolts) (2) GROMMET (In dash)
2	432 327	PLUG, instrument panel opening	14	706 000 C1	GAUGE, torque converter oil temperature (Replaces 619 817 C91)
3	621 639 C91 26 309 R1 25 534 R1	HOUSING w/SEAL, 621 646 C1, instrument panel BOLT WASHER (4)	OR	715 895 C1	GAUGE, torque converter oil temperature BUSHING, temperature gauge capillary tube to safety filter outlet tee
4	621 646 C1	SEAL, housing	14	715 895 C1	GAUGE, torque converter oil temperature
5	300 657 R1	WASHER, instrument panel	15	706 004 C1	GAUGE, clutch oil pressure (Replaces 619 818 C91)
6	621 647 C1 19 592 R1 25 485 R1 25 487 R1	PANEL, instrument (Order panel, 668 411 C1 together w/PLUG, 432 577) NUT, Esna (3) SCREW, 1-1/4" long hex-hd cap SCREW, 1-1/2" long hex-hd cap (2)	OR	715 669 C1	GAUGE, clutch oil pressure
7	702 027 C1	GAUGE, engine oil pressure	16	621 651 C1 103 092 132 760 115 544	MOUNT, vibration (3) NUT (6) SCREW, hex-hd cap (6) WASHER, lock (6)
8	621 653 C1	GUARD, instrument panel	17	621 652 C1	SPACER, guard (2)
9	432 482	PLUG, ignition switch opening	18		SWITCH, ether starting (Refer to "Starting and Ether Starting")
10	702 686 C1 142 619 H	INDICATOR, air cleaner filter WASHER, flat	19		LAMP, instrument panel (Refer to "Electric Starting and Lighting")
11	444 476	ELBOW, 90°	20		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
12	702 284 C1 (Rev. No. 1)	AMMETER	21		SWITCH, lighting (Refer to "Lighting Switch")
			22		HOUSING, fuse (Refer to "Electric Starting and Lighting")

INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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INSTRUMENTS AND INSTRUMENT PANEL
(6063 and up)



CE-113272

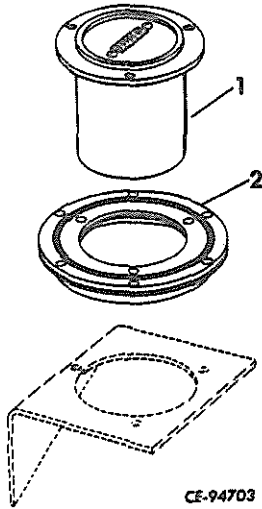
1	663 392 C1	SWITCH, hour meter pressure	14	715 895 C1	GAUGE, torque converter oil temperature 6063 - 6177
2	432 327	PLUG, instrument panel opening	14	668 499 C1	GAUGE, torque converter oil temperature (Replaces 621 659 C91) 6178 and up
3	621 639 C91	HOUSING w/SEAL, 621 646 C1, instrument panel	OR	715 670 C1	GAUGE, torque converter oil temperature 6178 and up
	26 309 R1	BOLT (4)	14	384 559 R1	CLIP, oil temperature gauge capillary tube (On TC housing mounting flange and from top and bottom on LH side) (2)
	25 534 R1	WASHER (4)		118 833	GROMMET, capillary tube
4	621 646 C1	SEAL, housing		706 004 C1	GAUGE, clutch oil pressure OR
5	300 657 R1	WASHER, instrument panel	15	715 669 C1	GAUGE, clutch oil pressure
6	668 411 C1	PANEL, instrument	16	621 651 C1	MOUNT, vibration (3)
	19 592 R1	NUT, Esna (3)		103 092	NUT (6)
	25 485 R1	BOLT, 1-1/4" long		132 760	SCREW, hex-hd cap (6)
	25 487 R1	BOLT, 1-1/2" long (2)		115 544	WASHER, lock (6)
7	713 167 C1	GAUGE, engine oil pressure (Optional with GAUGE, 706 003 C1)	17	621 652 C1	SPACER, guard (2)
7	706 003 C1	GAUGE, engine oil pressure (Optional with GAUGE, 713 167 C1)	18		SWITCH, ether starting (Refer to "Starting and Ether Switch")
8	621 653 C1	GUARD, instrument panel	19		LAMP, instrument panel (Refer to "Electric Starting and Lighting")
9	709 152 C2	HOURMETER	20		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
	OR				
9	740 543 C1	HOURMETER	21		SWITCH, lighting (Refer to "Lighting Switch")
10	702 686 C1	INDICATOR, air cleaner filter	22		HOUSING, fuse (Refer to "Electric Starting and Lighting")
	142 619 H	WASHER, flat		384 554 R1	CLIP (On cylinder head cover front and rear bolts) (2)
11	444 476	ELBOW, 90°		63 323 D	GROMMET (In dash)
12	702 284 C1	AMMETER			
13	668 495 C1	GAUGE, engine temperature (Replaces 702 221 C1)			
	OR				
13	713 169 C1	GAUGE, engine temperature			
14	706 000 C1	GAUGE, torque converter oil temperature (Replaces 619 817 C91)			
	OR				
		6063 to 6177			

(Rev. No. 1)

INSTRUMENTS

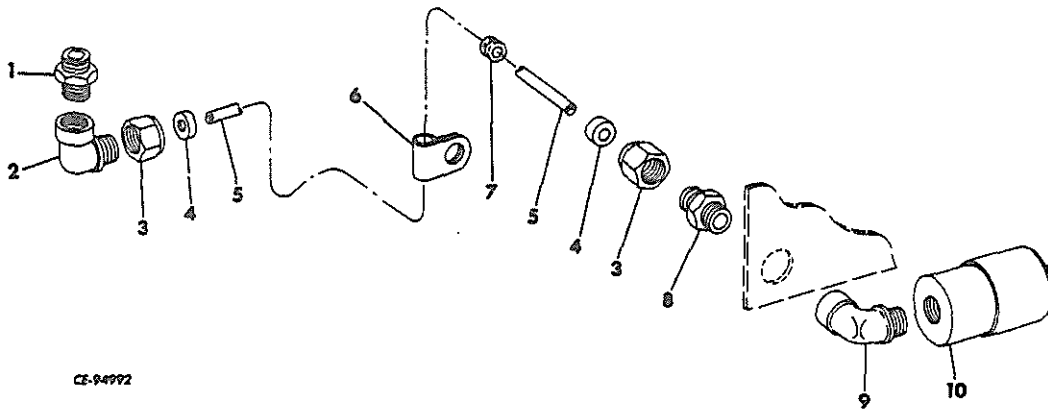
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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HOURMETER
(6062 and below)



1	621 657 C91	HOURMETER (Order one HOUR-METER, 709 152 C1, one CABLE, 709 268 C1 and one CABLE, 709 277 C1) (Mounted inside BATTERY BOX)
	132 705	SCREW, hex-hd cap (3)
	131 044	WASHER, lock (3)
2	116 457 H1	DAMPENER, vibration (Mounted inside BATTERY BOX)

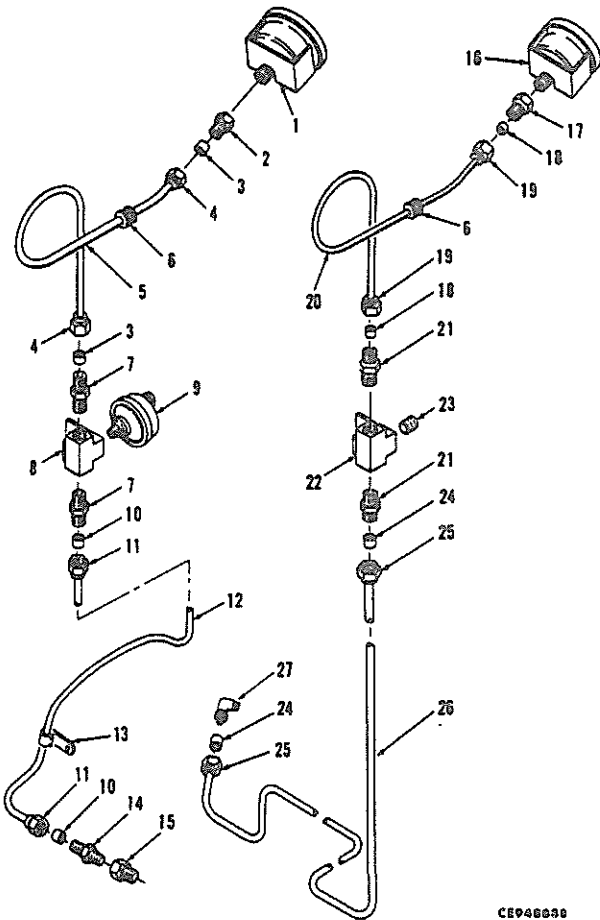
AIR CLEANER INDICATOR PIPING



1	1 104 135 C1	NIPPLE and FILTER, air cleaner indicator	7	63 323 D	GROMMET
2	610 040 C1	ELBOW, air cleaner indicator tube	8	606 999 C1	CONNECTOR
3	606 925 C1	NUT, tube (2)	9		ELBOW (Refer to "Instruments and Instrument Panel")
4	606 926 C1	SLEEVE, tube (2)	10		INDICATOR, air cleaner (Refer to "Instruments and Instrument Panel")
5	624 409 C91	TUBE w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, air cleaner filter indicator			
6	365 584 R1	CLAMP, tube (On top mounting of clamp for turbo inlet) (Replaces 84 611 R1)			

INSTRUMENTS

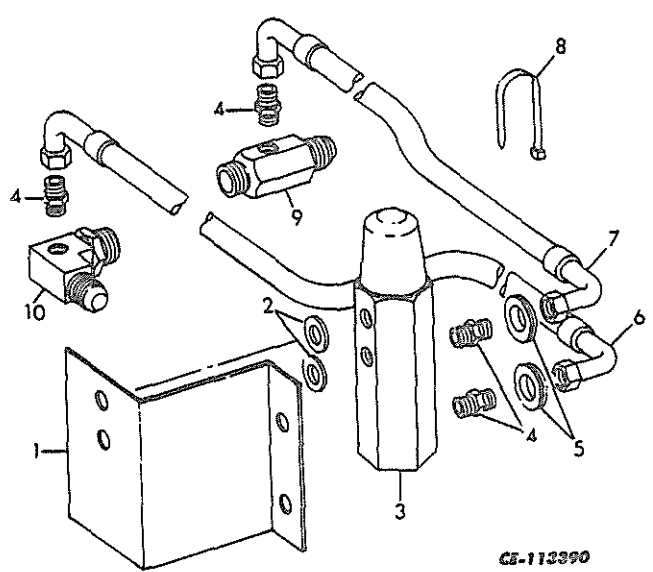
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
INSTRUMENT PIPING			9		SWITCH, hourmeter pressure (Refer to "Instruments and Instrument Panel")
			10	606 926 C1	SLEEVE, tube (2)
			11	606 925 C1	NUT, tube (2)
			12	628 026 C92	TUBE w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, lower engine oil pressure
			13	384 554 R1	CLIP, tube
			14	606 999 C1	CONNECTOR, lower engine oil pressure tube
			15	444 024	BUSHING, reducing
			16		GAUGE, clutch oil pressure (Refer to "Instruments and Instrument Panel")
			17	610 858 C1	ADAPTER, clutch oil pressure gauge
			18	606 926 C1	SLEEVE, tube (2)
			19	606 925 C1	NUT, tube (2)
			20	621 660 C91	TUBE w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, upper clutch oil pressure
			21	606 999 C1	CONNECTOR, clutch oil pressure tube to tee (2)
			22	622 702 C1 25 222 R1 115 109 Q 5001	TEE, clutch oil pressure BOLT WASHER, lock WASHER, flat
			23	444 652	PLUG, sq-soc-hd pipe
			24	606 926 C1	SLEEVE, tube (2)
			25	606 925 C1	NUT, tube (2)
			26	622 994 C92	TUBE w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, lower clutch oil pressure
			27	606 999 C1	CONNECTOR, lower clutch oil pressure tube to regulator valve tee (5044 and up)
			27	606 927 C1	ELBOW, lower clutch oil pressure tube to regulator valve tee (5001 to 5044)
1		GAUGE, engine oil pressure (Refer to "Instruments and Instrument Panel")			
2	610 858 C1	ADAPTER, engine oil pressure gauge			
3	606 926 C1	SLEEVE, tube (2)			
4	606 925 C1	NUT, tube (2)			
5	621 660 C91	TUBE w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, upper engine oil pressure			
6	63 323 D	GROMMET (2)			
7	606 999 C1	CONNECTOR, engine oil pressure tube to tee (2)			
8	622 702 C1 25 752 R1 115 109	TEE, engine oil pressure BOLT WASHER, lock			



INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRANSMISSION PRESSURE FILTER INDICATOR PIPING



CS-113390

8	306 132 C1	STRAP, indicator to filter hose (8)
9		CONNECTOR, pressure filter inlet (Refer to "Transmission and Torque Converter Piping") (A)
10		ELBOW, pressure filter outlet (Refer to "Transmission and Torque Converter Piping") (A)
		PRODUCT GRAPHIC, pressure filter indicator (Refer to "Product Graphics")

- A 636 807 C91 ATTACHMENT, pressure filter indicator (For use on machines built w/o Transmission filter inlet CONNECTOR and Transmission filter outlet ELBOW)(SEE NOTE 1)
- B 679 042 C91 ATTACHMENT, pressure filter indicator (For use on machines built w/ Transmission filter inlet CONNECTOR and Transmission filter outlet ELBOW)(SEE NOTE 1)
(Consists of -
- 1 715 883 C1 BRACKET, indicator mounting
25 222 R1 BOLT, 3/4" long (2)
26 673 R1 BOLT, 1/2" long (2)
25 519 R1 NUT (2)
25 542 R1 WASHER, flat (4)
115 109 WASHER, lock (2)
- 2 715 753 C1 WASHER, insulator (2)
- 3 715 647 C1 INDICATOR, pressure filter
- 4 9 402 706 CONNECTOR, tube at indicator and filter (4)
- 5 617 259 C1 GROMMET, on dash behind indicator (2)
- 6 715 882 C1 HOSE w/FITTINGS, filter inlet to "HI" on indicator (HOSE, 3/16" ID x 110" long including FITTINGS)
- 7 715 884 C1 HOSE w/FITTINGS, filter outlet to "LO" on indicator (HOSE, 3/16" ID x 95" long including FITTINGS)

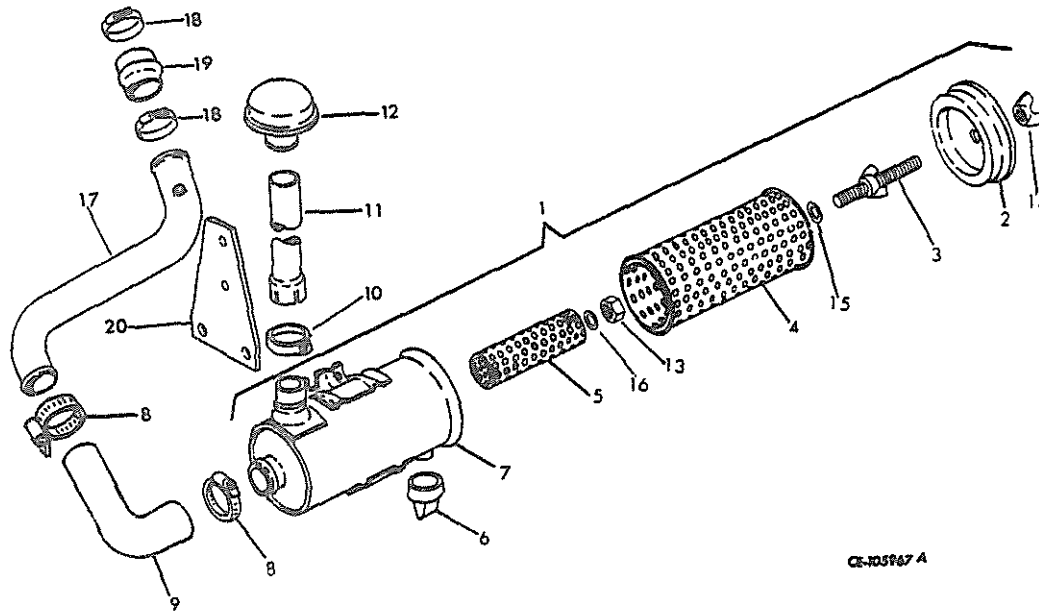
**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

This section does not contain engine
service parts. For a list of service parts
Refer to the EPC-239 Parts Catalog.

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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AIR CLEANER AND CONNECTIONS



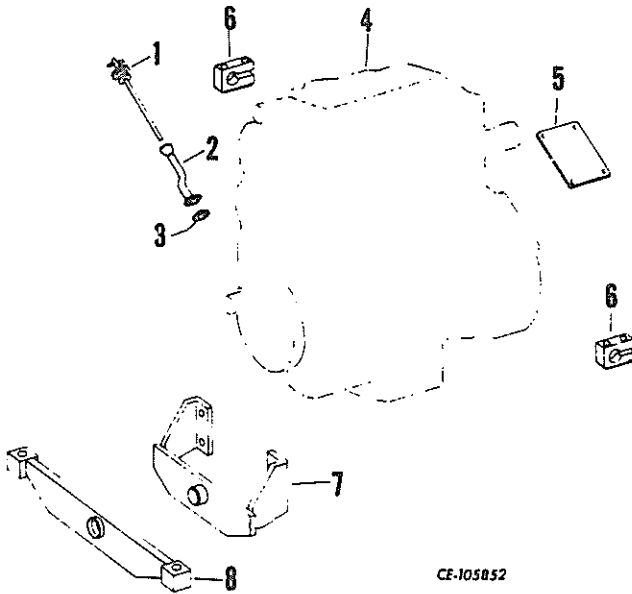
CE-105167 A

1	683 430 C93 25 794 R1 115 314 25 545 R1 24 840 R1 25 544 R1 115 093	CLEANER, air BOLT, 7/16" dia. (2) ap (2) WASHER, 7/16" lock (2) WASHER, 7/16" flat (2) BOLT, 3/8" dia (2) p (2) WASHER, 3/8" flat (2) WASHER, 3/8" lock (2)	14	929 361 C1	NUT, cover wing
2	631 420 C1	COVER, element	15	619 839 C1	SEAL, wing nut
3	929 359 C1	NUT, element wing	16	627 121 C1	WASHER
4	631 421 C1	ELEMENT, primary	17	680 668 C2 139 312 H1 103 341 19 924 R1	PIPE, turbo air inlet SCREW, hex-hd cap WASHER, flat (2) NUT, lock (2)
5	631 422 C1	ELEMENT, safety	18	690 106 C1	CLAMP, hose (2) (Replaces 683 402 C1 and 690 098 C1)
6	615 679 C1	VALVE, dust unloader	19	690 081 C1	HOSE, turbo air inlet pipe (Replaces 303 831 R2)
7		BODY (Not Furnished Separately)	20	663 443 C1	PLATE, turbo air inlet pipe mounting
8	690 106 C1	CLAMP, air cleaner outlet elbow (2) (Replaces 683 402 C1 and 690 098 C1)			
9	622 042 C2	ELBOW, air cleaner outlet			
10	663 432 C1 24 841 R1 115 093 25 522 R1	CLAMP, air intake pipe SCREW, hex-hd cap WASHER, lock NUT			
11	622 043 C1	PIPE, air intake extension			
12	49 464 DA	CAP, weather			
13	929 358 C1	NUT w/GASKET, element wing			

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ENGINE, MOUNTS, OIL FILLER, AND GAUGE



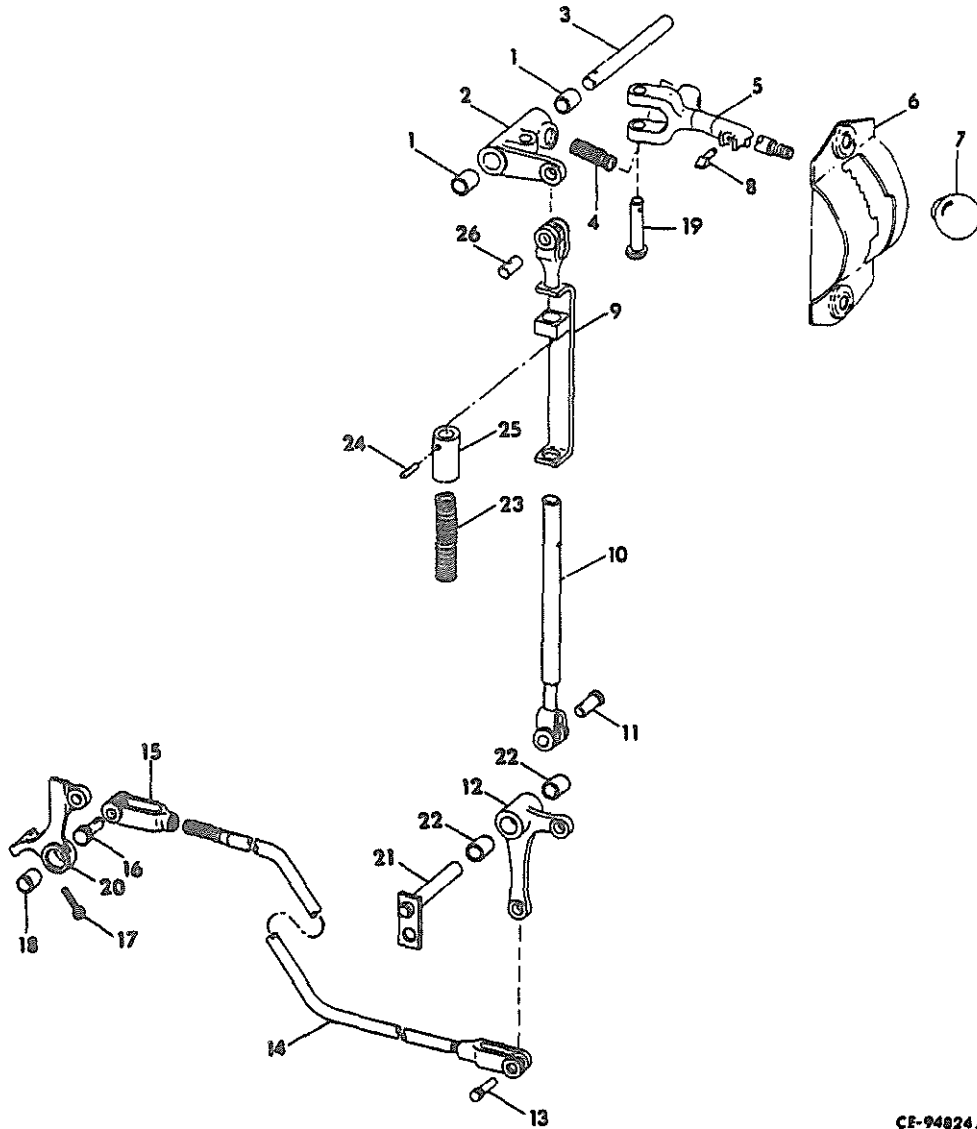
CE-105852

1	672 520 C1	GAUGE, oil level
2	672 512 C1	TUBE, oil filler and oil level gauge dipstick
	24 840 R1	SCREW, hex-hd cap (2)
	115 093	WASHER, lock (2)
3	672 515 C1	GASKET, oil filler tube
4		D-239 ENGINE, for service parts refer to Engine Parts Catalog EPC-239
5	621 711 C1	COVER, flywheel housing inspection
	24 839 R1	SCREW, hex-hd cap (4)
	115 093	WASHER, lock (4)
6	621 719 C1	BLOCK, rear engine mounting (2)
	25 739 R1	SCREW, hex-hd cap (4)
	25 546 R1	WASHER (4)
7	621 712 C2	BRACKET, engine front support
	25 336 R1	SCREW, hex-hd cap (4)
	25 547 R1	WASHER, flat (4)
8	621 720 C1	SUPPORT, front engine
	25 340 R1	SCREW, hex-hd cap (2)
	25 547 R1	WASHER, flat (2)

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ENGINE AND GOVERNOR CONTROLS



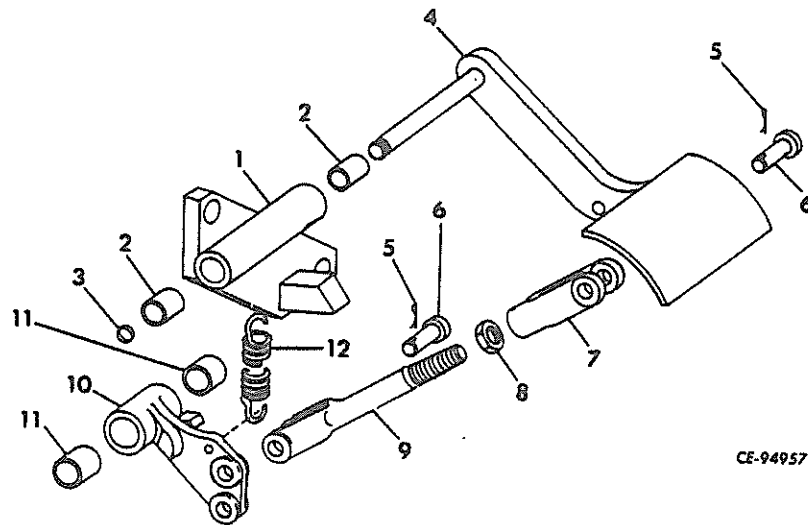
CE-94824 A

1	622 085 C1	BUSHING, hand lever hub (2)	7	264 097 R2	KNOB, governor control hand lever
2	622 083 C91	HUB w/two BUSHING, 622 085 C1, hand lever	8	251 846 R1	PAWL, hand lever
3	622 086 C1 103 386	SHAFT, hand lever hub PIN, cotter	9	622 087 C1	BODY, control lever override
4	261 650 R1	SPRING, hand lever	10	622 143 C1	ROD, governor control lever override
5	622 081 C91	LEVER w/PAWL, 251 846 R1 governor control hand	11	103 496 107 762	PIN, override to bellcrank PIN, cotter
6	622 107 C1 25 524 R1 115 314	HOUSING, governor control NUT (2) WASHER, lock (2)	12	622 112 C91	BELLCRANK w/two BUSHING, 622 085 C1, governor control
			13	103 496 107 762	PIN, injection pump rod at bellcrank PIN, cotter

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ENGINE AND GOVERNOR CONTROLS - Continued					
14	622 116 C1	ROD, injection pump	20	632 717 C91	LEVER w/BUSHING 622 085 C1, injection pump (With WASHER 18927H will work for LEVER 622 118 C91)
15	104 038 25 934 R1	CLEVIS, injection pump rod NUT, NF jam		103 385 18 927 H	PIN, cotter WASHER, flat
16	103 496 107 762	PIN, injection pump rod clevis PIN, cotter	21	622 114 C1 25 522 R1 115 093	SHAFT, bellcrank NUT WASHER, lock
17	652 018 C1 25 930 R1	BOLT, lever adjusting NUT, NF jam	22	622 085 C1	BUSHING, governor control bellcrank (2)
18	622 085 C1	BUSHING, injection pump lever	23	652 435 C1	SPRING, lever override compression
19	35 229 H 107 762	PIN, governor control lever rod end PIN, cotter	24	19 938 R1	PIN, override stop block spring roll
20	622 118 C91	LEVER w/BUSHING 622 085 C1, injection pump (Order LEVER 632 717 C91 and WASHER 18927H)	25	622 093 C1	BLOCK, override spring stop
	103 385 Q 5 035	PIN, cotter WASHER, flat	26	622 090 C1 103 386	PIN, override to control lever PIN, cotter

DECELERATOR



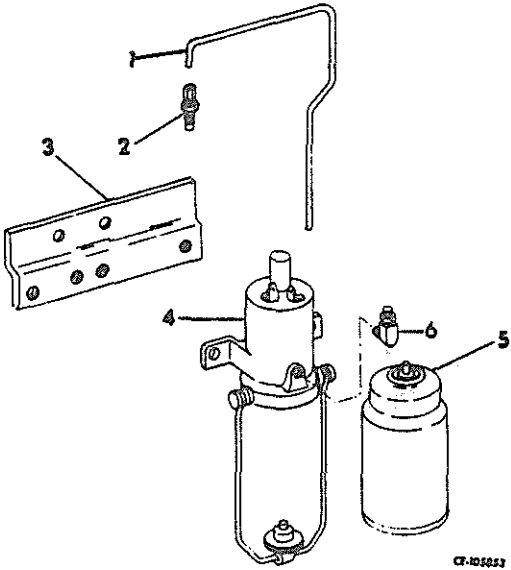
CE-94957

1	622 755 C91 25 526 R1 24 861 R1 116 121	SUPPORT w/two BUSHING, 327 465 R1, decelerator pedal NUT (2) SCREW, hex-hd cap (2) WASHER, lock (2)	7	104 038	CLEVIS, adjustable
2	327 465 R1	BUSHING, support (2)	8	25 934 R1	NUT, NF jam
3	324 653 R1	RING, snap	9	622 127 C1	ROD, foot pedal
4	652 019 C1	PEDAL, decelerator	10	622 129 C91	LEVER w/two BUSHING, 622 085 C1, override actuating
5	107 762	PIN, cotter (2)	11	622 085 C1	BUSHING, lever (2)
6	103 496	PIN, rod end (2)	12	300 486 R1	SPRING, foot pedal return

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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ETHER INJECTOR, BRACKET AND NOZZLE



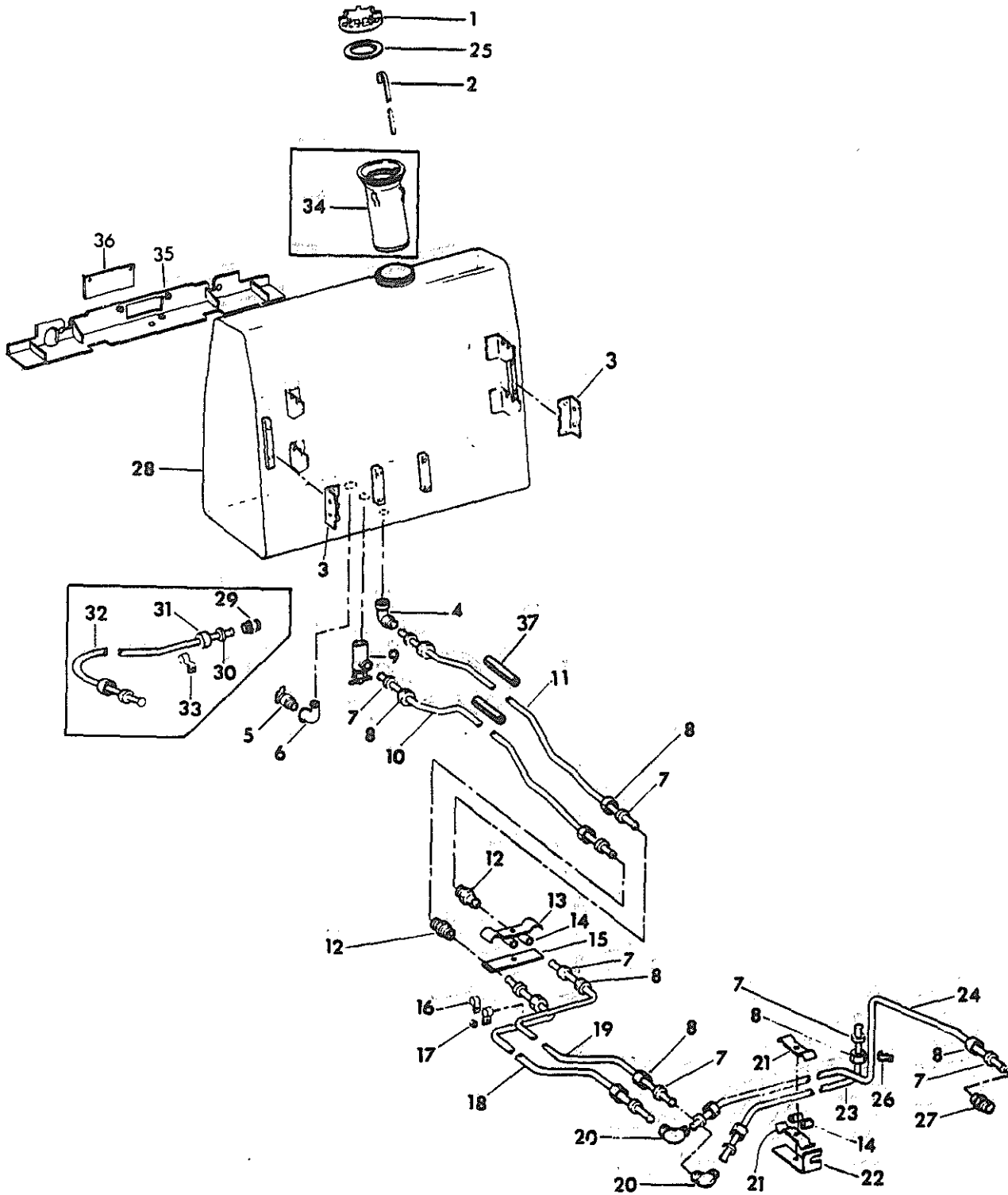
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|----|-------------|--|
| 1 | 622 980 C1 | TUBE, ether |
| 2 | 650 866 C1 | NOZZLE, ether (Mounted on Intake Manifold) |
| 3 | 628 113 C1 | BRACKET, ether injector mounting |
| | 24 841 R1 | SCREW, hex-hd cap (2) |
| | 115 093 | WASHER, lock (2) |
| | 617 113 C1 | SPACER, ether bracket (2) |
| 4 | 533 231 R92 | INJECTOR, electric ether (Order INJECTOR, 736 459 C92) |
| | 25 493 R1 | BOLT (2) |
| | 116 120 | WASHER, lock (2) |
| 5 | | CAN, starting fluid (Pressurized) (Order Part No. 1213 from Precision Specialties Division, 199 East Second Street, Mineola, New York, 11501.) |
| 6 | 140 304 | ELBOW, ball sleeve tube (Used w/INJECTOR, 533 231 R92) |
| 6A | | ELBOW, check valve (Not Furnished Separately) |
| 7 | 736 459 C92 | INJECTOR w/BAIL, 736 473 C1 and check valve ELBOW |
| | | BOLT (2) |
| | | WASHER, lock (2) |
| 8 | 736 473 C1 | BAIL, ether solenoid |

POWER

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FUEL TANK, MOUNTING AND PIPING



CE106245B

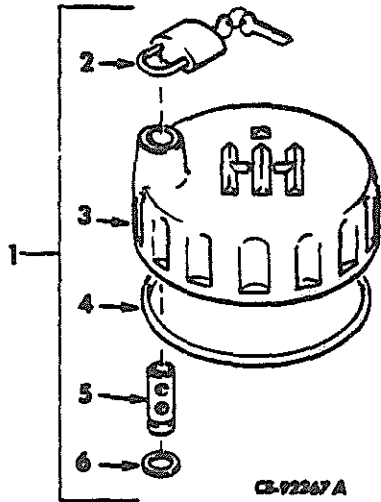
POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL TANK, MOUNTING AND PIPING - Continued			21	66 362 D 262 038 R1 114 355	CLAMP, tube (On bracket) (2) NUT, speed SCREW, slit-fil-hd mach
1	701 922 C2	CAP, w/GASKET, 618 688 C2, fuel tank filler	22	653 701 C1	BRACKET, fuel line clamp mounting (On Engine air cleaner mounting SCREW)
2	611 409 C1	DIPSTICK, fuel tank	23	622 770 C91	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, front fuel return
3	621 626 C1 25 547 R1 24 872 R1	ANGLE, tank mounting (2) WASHER, hardened (8) SCREW, hex-hd cap (8)	24	653 699 C91	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, front fuel supply
4	333 774 R1	ELBOW, fuel return tube at tank	25	618 688 C2	GASKET, fuel tank filler cap
5	31 729 D	VALVE, fuel tank drain	26	263 514 R91	CLAMP, fuel tube (On ether starting bracket on engine)
6	265 024 R1	ELBOW, drain tube at tank (For backhoe models)	27	606 819 C1	CONNECTOR, fuel tube to filter
7	265 204 R1	SLEEVE, tube (12)	28	621 594 C92 24 886 R1 13 611-VA	TANK, w/CAP, 701 922 C2, fuel tank (Not for backhoe models) SCREW, hex-hd cap (2) WASHER, hardened (2)
8	265 205 R1	NUT, tube (12)	28	621 578 C91	TANK, w/CAP, 701 922 C2, fuel tank (For backhoe models)
9	650 443 C92	VALVE, fuel tank shutoff	29	645 304 C1	CONNECTOR, drain tube at drain valve (For backhoe models)
10	622 766 C91	TUBE, w/two NUT, 265 205 R1, two SLEEVE, 265 204 R1 and HOSE, 632 207 C1, rear fuel supply	30	265 066 R1	SLEEVE, tube (2)
11	622 772 C91	TUBE, w/two NUT, 265 205 R1, two SLEEVE, 265 204 R1 and HOSE, 632 207 C1, rear fuel return	31	265 067 R1	NUT, tube (2)
12	603 867 C1	UNION, fuel return or supply tubes (2)	32	624 999 C91	TUBE, w/two NUT, 265 067 R1 and two SLEEVE, 265 066 R1, fuel tank drain extension (For backhoe models)
13	653 702 C1 26 316 R1 32 347 D 103 323	CLAMP, tube (On transmission) SCREW, hex-hd cap (Nylok) WASHER, clamp WASHER, lock	33	645 303 C1 25 522 R1 24 840 R1 115 093	CLIP, fuel tank drain tube (For backhoe models) NUT SCREW, hex-hd cap WASHER, lock
14	272 941 R1	CUSHION, fuel tube (4)	34	621 809 C1	STRAINER, fuel tank filler (Order STRAINER, 732 432 C1 together w/RING, 354 836 R1)
15	653 703 C1	PLATE, clamp	34	732 432 C1 354 836 R1	STRAINER, fuel tank filler "O" RING
16	299 902 R1 25 524 R1 115 314	CLAMP, fuel tubes (On RH upper transmission cover bolt) (2) NUT WASHER, lock	35		COVER, rear sheet (Order ATTACHMENT, 706 165 C91) SCREW, hex-hd cap (2) WASHER, flat (2) SPACER (2)
17		SPACER, clamp (1/2 x 1/2" extra strong pipe - obtain locally)	36	706 158 C1 26 310 R1 25 534 R1	COVER, access (Part of ATTACHMENT, 706 165 C91) SCREW, hex-hd cap (2) WASHER, flat (2)
18	653 556 C91 632 207 C1	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, fuel supply HOSE, tube protector	37	632 207 C1 706 165 C91	HOSE, tube protector (2) ATTACHMENT, fuel tank bottom guard (Part of Forestry Package 632 757 C91) (See NOTE 1)
19	653 557 C91 632 207 C1	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 205 R1, fuel return HOSE, tube protector			
20	610 694 C1	ELBOW, fuel return or supply tubes (2)			

POWER

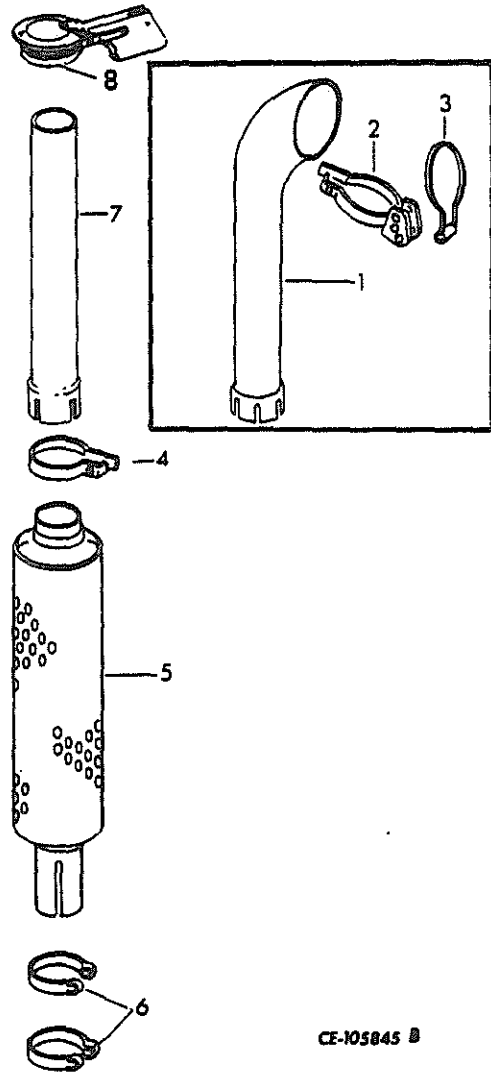
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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LOCKING CAP



- 1 628 156 C91 CAP, fuel tank filler locking (Used only w/CAP, 701 822 C2)
- 2 650 382 C91 PADLOCK, w/KEYS
- 3 CAP, outer locking (Not Furnished Separately)
- 4 309 056 R1 RING, retaining
OR
4 300 027 R1 RING, retaining
- 5 PIN, locking cap
- 6 23 221 R1 RING, retaining

ENGINE EXHAUST



- 1 663 382 C1 PIPE, exhaust (Order PIPE, 706 490 C2)
- 2 622 562 C1 CLAMP, exhaust lock (used w/PIPE, 663 382 C1)
- 24 841 R1 SCREW, hex-hd cap
- 115 083 WASHER
- 25 522 R1 NUT

POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ENGINE EXHAUST - Continued			EXHAUST PIPE EXTENSION		
3	622 564 C1	PLATE, cover (used w/PIPE, 663 382 C1)			
	25 654 R1	SCREW, hex-hd cap			
	9 413 952	NUT			
4	527 704 R2	CLAMP, exhaust pipe (Replaces 663 432 C1)			
	20 153 R1	SCREW, hex-hd cap			
	120 382	WASHER, lock			
5	652 499 C3	MUFFLER			
6	663 384 C1	CLAMP, exhaust muffler (2)			
	275 804 R1	SCREW, hex-hd cap (2)			
	25 544 R1	WASHER, flat (4)			
	115 093	WASHER, lock (2)			
	25 522 R1	NUT (2)			
7	706 490 C2	PIPE, exhaust (will work for PIPE, 663 382 C1)			
8	734 400 C91	CAP, lockable exhaust rain (Used w/ PIPE, 706 490 C2) (Replaces 717 396 C91) (Part of ATTACHMENT, 632 290 C91)			
632 290 C91	ATTACHMENT, lockable exhaust rain cap (Used w/PIPE, 706 490 C2) (Consists of CAP, 717 396 C91) (SEE NOTE 3)				
			632 748 C92	ATTACHMENT, exhaust pipe extension (Machine must be equipped w/ROPS canopy) (Not used w/706 490 C1) (Part of forestry package 632 757 C91) (See NOTE 1) (Consists of -	
			1	706 050 C3 EXTENSION, exhaust pipe	
			2	652 868 C1 CLAMP, exhaust pipe	
				275 804 R1 SCREW, hex hd cap	
				25 544 R1 WASHER, .406" flat (2)	
				709 271 C1 WASHER, .390" spring	
				25 896 R1 WASHER, .406" flat	
				9 413 979 NUT, 3/8" lock	
				25 522 R1 NUT, 3/8" (%)	
			3	652 862 C3 GUARD, exhaust pipe	
				24 861 R1 SCREW, hex hd cap (2)	
				25 536 R1 WASHER, flat (2)	
				25 526 R1 NUT (2)	
			4	708 000 C1 ANGLE, mounting (2)	
				24 861 R1 SCREW, 1-1/4" long hex hd cap (4)	
				25 526 R1 NUT (4)	
				25 546 R1 WASHER, flat (4)	
			5	652 869 C2 PLATE, hanger	
				625 875 C1 MOUNT (%)	
				709 242 C1 BUSHING, hanger plate	
				24 844 R1 SCREW, hex hd cap	
				25 553 R1 WASHER, .406" flat (2)	
				25 538 R1 WASHER, .812" flat	
				103 326 WASHER, 3/8" lock	
				9 413 979 NUT, 3/8" lock	
				25 522 R1 NUT, 3/8" (%)	
				(%) - Used with EXHAUST PIPE EXTENSION ATTACHMENT, 632 748 C91. (Rev. No. 1)	

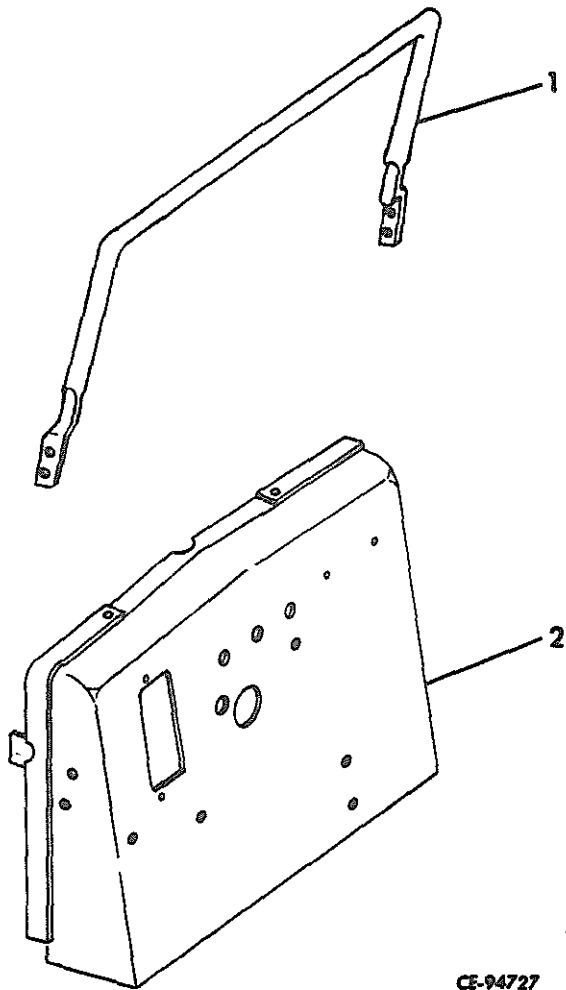


**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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DASH AND ASSIST HANDLE

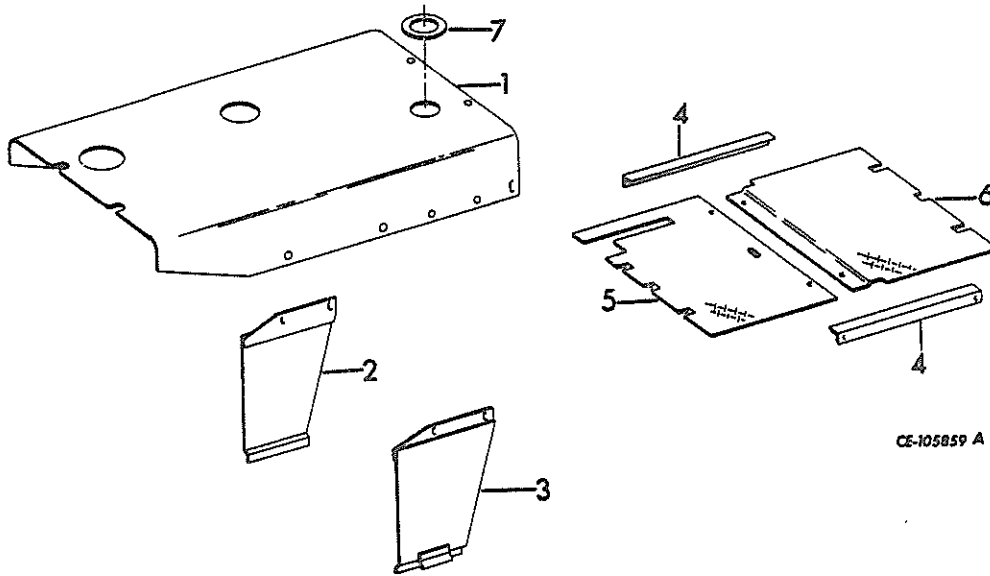


1	622 050 C1 25 524 R1 24 849 R1 115 314	HANDLE, assist NUT (4) SCREW, hex-hd cap (4) WASHER, lock (4)
2	622 086 C3 24 849 R1 397 455 R1	DASH SCREW, hex-hd cap (4) WASHER, hardened (4)
	432 607	PLUG, dash button (Optional w/PLUG, 432 610) (Not used w/ Transmission pressure filter indi- cator ATTACHMENTS) (2)
	432 610	PLUG, dash button (Optional w/PLUG, 432 607) (Not used w/Transmission pressure filter indi- cator ATTACHMENTS) (2)

SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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HOOD AND PLATFORMS



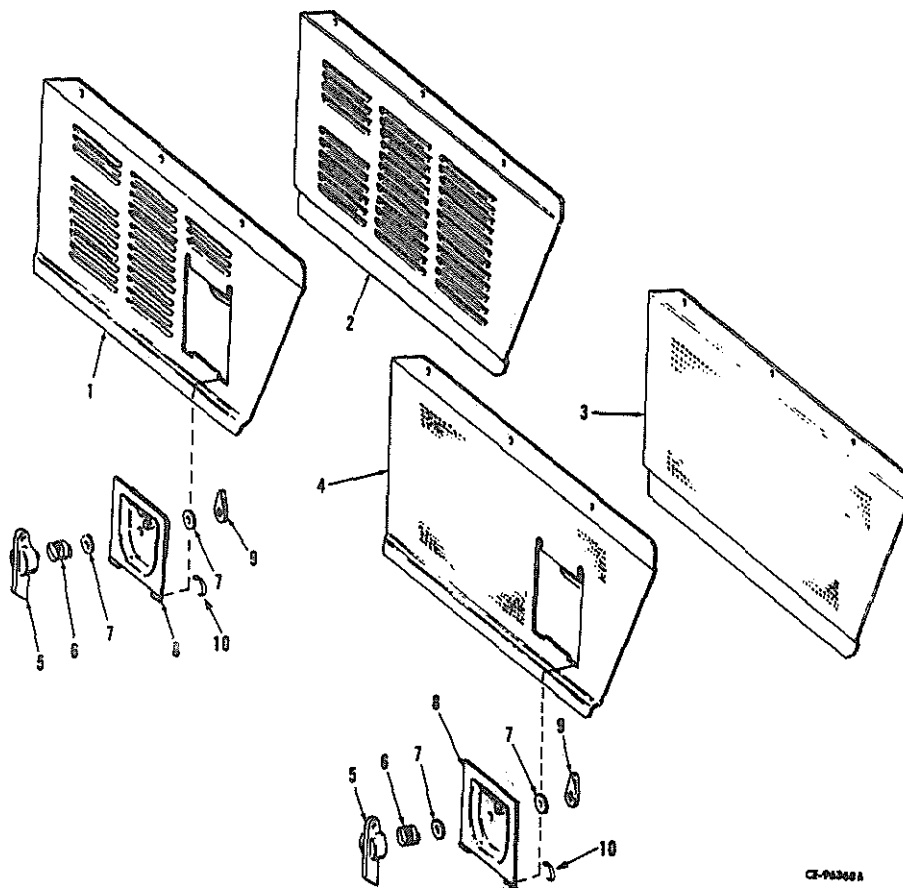
CS-105859 A

1	663 408 C1	HOOD (Not perforated)
1	663 410 C1	HOOD, (perforated) (Part of ATTACHMENT, 632 751 C91) (Not for backhoe models)
	334 951 R1	WASHER, hood sheet pilot (2)
	26 317 R1	BOLT, patch (6)
	116 121	WASHER, lock (4)
	25 555 R1	WASHER, hardened (6)
2	622 071 C1	PANEL-LH, hood rear side (Not used w/HOOD SIDE DOORS)
	24 839 R1	SCREW, hex-hd cap (2) <small>≠ and below</small>
	115 093	WASHER, lock (2)
3	622 072 C1	PANEL-RH, hood rear side (Not used w/HOOD SIDE DOORS)
	24 839 R1	SCREW, hex-hd cap (2) <small>≠ and below</small>
	115 093	WASHER, lock (2)
4	621 984 C1	ANGLE, platform support (2)
	26 316 R1	BOLT (4)
	25 536 R1	WASHER, hardened (4)
5	663 148 C1	PLATFORM, front
	26 316 R1	BOLT (2)
	25 555 R1	WASHER, flat (2)
6	663 147 C1	PLATFORM, rear
7	679 070 C1	SEAL, air stack

SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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HOOD SIDE DOORS



CE-70300A

<p>1 622 471 C91 DOOR-RH, hood side 26 309 R1 SCREW, hex-hd cap (3) 25 553 R1 WASHER, (3)</p> <p>(Composed of - \$ 1 DOOR 1 HANDLE 622 539 C1 1 PAWL 622 541 C1 1 SPRING 562 008 R1 1 SPRING 652 104 C1 2 WASHER 622 540 C1)</p> <p>2 622 470 C2 DOOR-LH, hood side 26 309 R1 SCREW, hex-hd cap (3) 25 553 R1 WASHER, flat (3)</p> <p>3 622 557 C1 DOOR-LH, hood side (For Forestry Enclosure) (Part of ATTACH- MENT, 632 751 C91) (Not for backhoe models) 26 309 R1 SCREW, hex-hd cap (3) 25 553 R1 WASHER, flat (3)</p>	<p>4 622 558 C91 DOOR-RH, hood side (For Forestry Enclosure) (Part of ATTACH- MENT, 632 751 C91) (Not for backhoe models) (Composed of - \$ 1 DOOR 1 PAWL 622 541 C1 1 HANDLE 622 539 C1 1 SPRING 562 008 R1 1 SPRING 652 104 C1 2 WASHER 622 540 C1)</p> <p> 26 309 R1 SCREW, hex-hd cap (3) 25 553 R1 WASHER (3)</p> <p>5 622 539 C1 HANDLE, locking</p> <p>6 562 008 R1 SPRING, locking handle</p> <p>7 92 779 R1 WASHER, locking handle (2)</p>
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(Rev. No. 1)

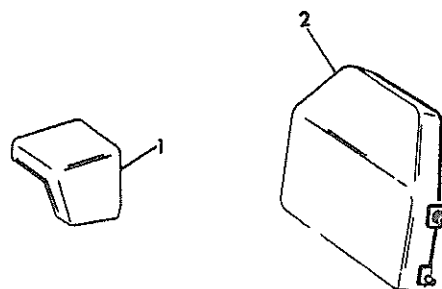
SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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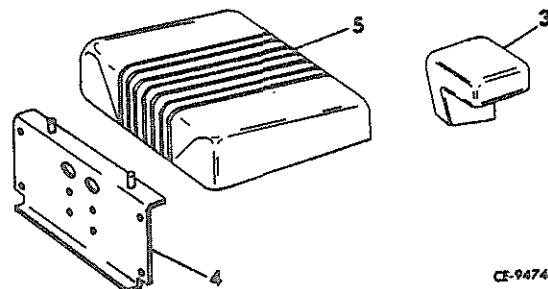
HOOD SIDE DOORS - Continued

8	632 262 C91	DOOR, with hinge, engine side enclosure access			
	24 860 R1	SCREW, hex-hd cap			
	180 491	WASHER, heavy int. tooth lock			
	25 526 R1	NUT			
		(Composed of -			
	\$ 1	DOOR with hinge			
	1	HANDLE	622 539 C1		
	1	PAWL	622 541 C1		
	1	SCREW	24 839 R1		
	1	SPRING	562 008 R1		
	1	WASHER	28 035 K		
	2	WASHER	92 779 R1		
	1	WASHER	114 606		

SEAT AND MOUNTING



9	622 541 C1	PAWL, locking			
	24 839 R1	SCREW, hex-hd cap			
	115 093	WASHER, ext tooth lock			
	28 035 K	WASHER, flat			
10	652 008 R1	SPRING, access door			
	632 751 C91	ATTACHMENT, engine enclosure (Part of forestry package 632 757 C91) (See NOTE 1)			
		(Composed of -			
	6	BOLT	24 839 R1		
	1	DOOR	622 557 C1		
	1	DOOR	622 558 C1		
	1	HOOD	663 410 C1		
	1	PAMPHLET	1 128 085 R1		
	1	SEAL	679 070 C1		
	6	WASHER	P010 532		
	6	WASHER	115 093)		



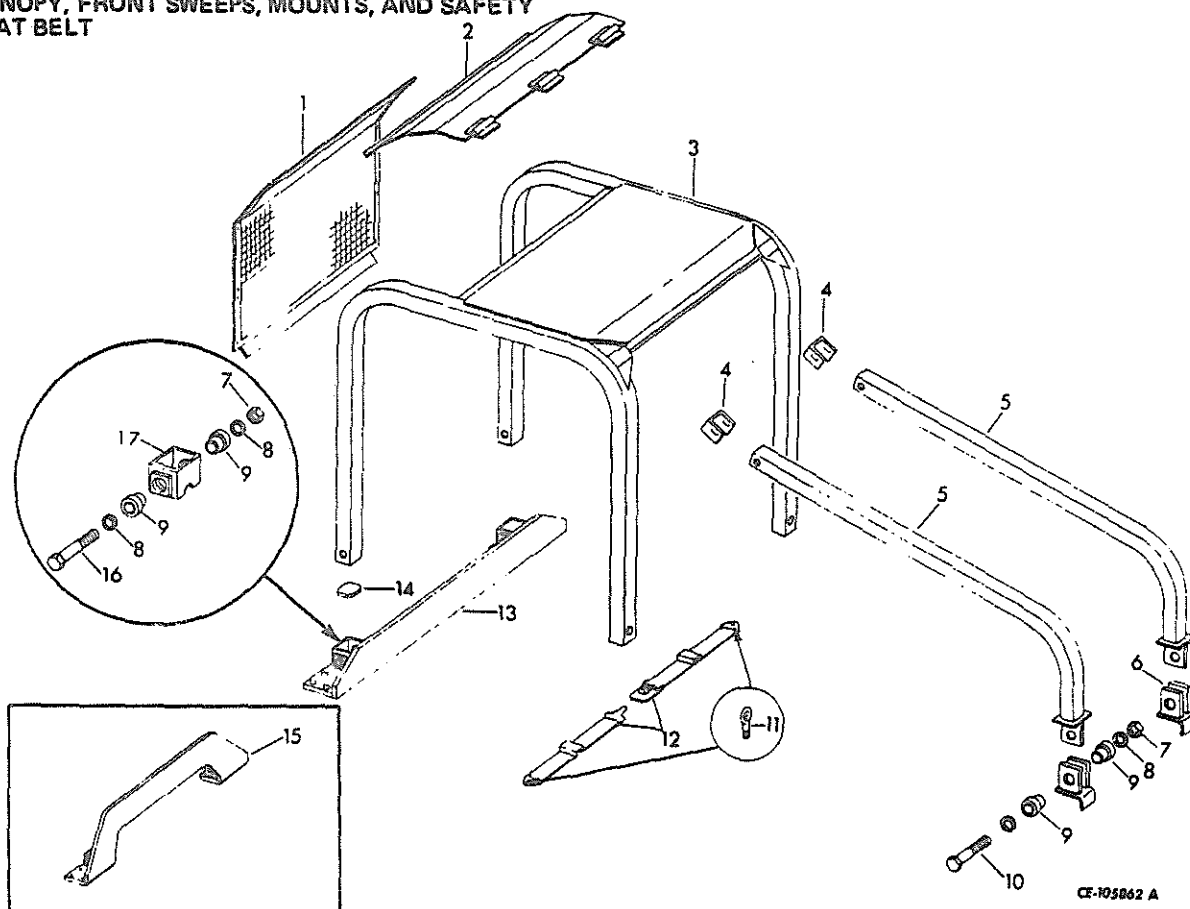
CE-94740A

1	621 622 C1	CUSHION-RH, seat side			
	25 493 R1	SCREW, hex-hd cap (2)			
	116 120	WASHER, lock (2)			
	103 340	WASHER, flat (2)			
2	621 620 C1	CUSHION, seat back			
3	621 621 C1	CUSHION-LH, seat side			
	24 840 R1	SCREW, hex-hd cap (2)			
	115 093	WASHER, lock (2)			
	25 534 R1	WASHER, flat (2)			
4	621 494 C1	SUPPORT front, seat			
	24 860 R1	SCREW, hex-hd cap (4)			
	116 121	WASHER, lock (4)			
	103 343	WASHER, flat (4)			
5	621 619 C1	CUSHION, seat bottom			

SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CANOPY, FRONT SWEEPS, MOUNTS, AND SAFETY SEAT BELT



A	622 509 C91	ATTACHMENT, seat belt (See NOTE 3)	2	705 551 C1 24 869 R1 25 555 R1 25 526 R1	PLATE, roof extension (G) SCREW, hex-hd cap (2) WASHER, flat (6) NUT (2)
B	632 566 C91	ATTACHMENT, canopy (Rollover Protective Structure) w/seat belt (See NOTE 2)	3		CANOPY (Rollover Protective Structure) (Not Furnished Separately) (B)
C	632 561 C91	ATTACHMENT, canopy rear mount (Not for backhoe models) (Standard) (See NOTE 3)	4	668 768 C1	CHANNEL, sweeps (Order the following parts - (2 for E) 1 BOLT 24 896 R1 1 CHANNEL 712 620 C1 1 DRAWING CZG-1917 1 DRAWING CZG-3123 1 NUT 9 413 983 2 WASHER 25 538 R1)
D	632 562 C91	ATTACHMENT, canopy rear mount (Arched) (See NOTE 2)	4	712 620 C1 24 896 R1 9 413 983 25 538 R1	CHANNEL, sweeps (2 for E) BOLT (2) NUT, lock (2) WASHER, flat (4)
E	632 565 C91	ATTACHMENT, front sweeps (Part of forestry package 732 757 C91) (See NOTE 2)	5	668 762 C1	SWEEPS, front (Order the following parts - (2 for E) 1 BOLT 24 896 R1 1 CHANNEL 712 620 C1 1 DRAWING CZG-1917 1 NUT 9 413 983 1 SWEEPS 668 762 C2 1 WASHER 25 538 R1)
F	632 564 C91	ATTACHMENT, rear screen (Not for backhoe models) (Part of forestry package 732 757 C91) (See NOTE 2)	1	705 550 C1 24 869 R1 25 555 R1 25 526 R1	SCREEN, rear (F) SCREW, hex-hd cap (6) WASHER (12) NUT (6)
G	632 563 C91	ATTACHMENT, roof extension (Part of forestry package 632 757 C91) (See NOTE 3)			

(Rev. No. 1)

SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CANOPY, FRONT SWEEPS, MOUNTS, AND SAFETY SEAT BELT – Continued					
5	668 762 C2	SWEEPS, front (2 for E)			
6	668 771 C1	ANGLE, lug (2 for E)			
7	9 412 231	NUT, lock (2 for E) (4 for B)			
8	M 22 352	WASHER (4 for E) (8 for B)			
9	153 343 H1	INSULATOR, socket (4 for E) (8 for B)			
10	24 882 R1	SCREW, hex-hd cap (2 for E)			
11	619 894 C1 273 896 25 555 R1	BOLT, seat belt eye (A and B) (2) NUT, lock (2) WASHER, hardened (2)			
12	636 888 C1 24 860 R1 9 412 230 103 342 25 555 R1	BELT, seat (A and B) (Replaces 702 248 C3) BOLT (2) NUT (2) WASHER, flat (2) WASHER, hardened (2)			
13	668 690 C1 24 892 R1 25 548 R1 25 529 R1	MOUNT, canopy standard (C) SCREW, hex-hd cap (8) WASHER, flat (16) NUT (8)			
14	951 360 R1	PAD, socket (4 for B)			
15	668 753 C1 24 892 R1 25 548 R1 25 529 R1	MOUNT, canopy arched (D) SCREW, hex-hd cap (8) WASHER, flat (16) NUT (8)			
16	25 696 R1	SCREW, hex-hd cap (4 for B)			
17	668 693 C1	SOCKET ASSY. (2 for C and D)			



REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS

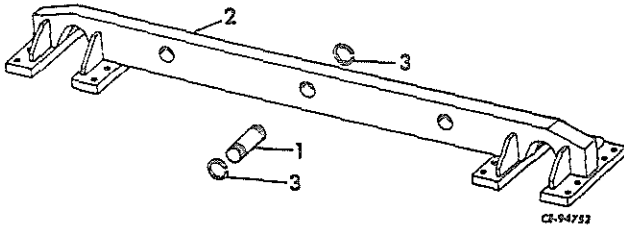
SUSPENSION

14

SUSPENSION

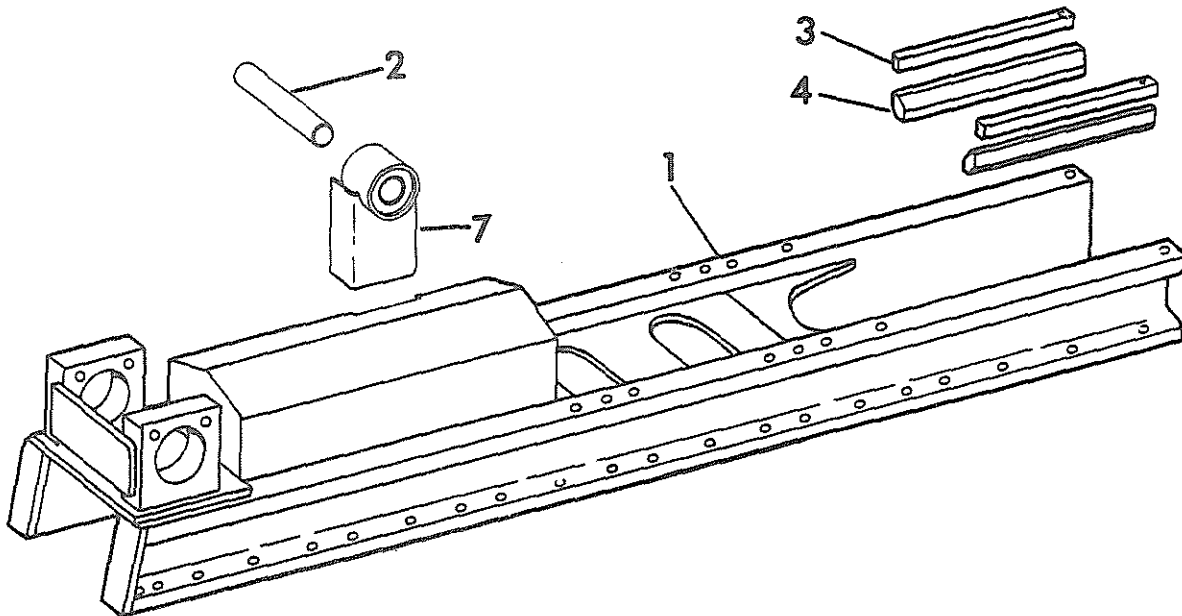
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FRONT CROSSBAR



1	621 554 C1	PIN, front crossbar mounting
2	621 555 C2	CROSSBAR, front
	24 893 R1	SCREW, hex-hd cap (16)
	25 548 R1	WASHER, flat (16)
3	338 159 R1	RING, front crossbar mounting (2)

TRACK FRAME



CE-113361A

1	645 681 C92	FRAME ASSY, LH track	1	645 682 C92	FRAME ASSY, RH track
		(Consists of -			(Consists of -
		2 BAR			2 BAR
		2 BAR			2 BAR
		2 BLOCK			2 BLOCK
		1 BRACKET			1 BRACKET
		\$ 1 FRAME			\$ 1 FRAME
		1 SHAFT			1 SHAFT
		\$ 1 PLATE			\$ 1 PLATE

(Rev. No. 1)

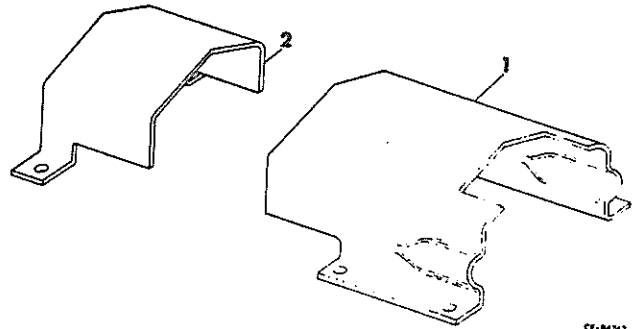
SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACK FRAME – Continued

2	621 383 C1	SHAFT, track idler (2)
3	622 221 C1	BAR, front idler guide (4)
4	621 338 C1	BAR, front idler wear (4)
7	662 651 C1	BRACKET, track idler (2)

TRACK FRAME COVER



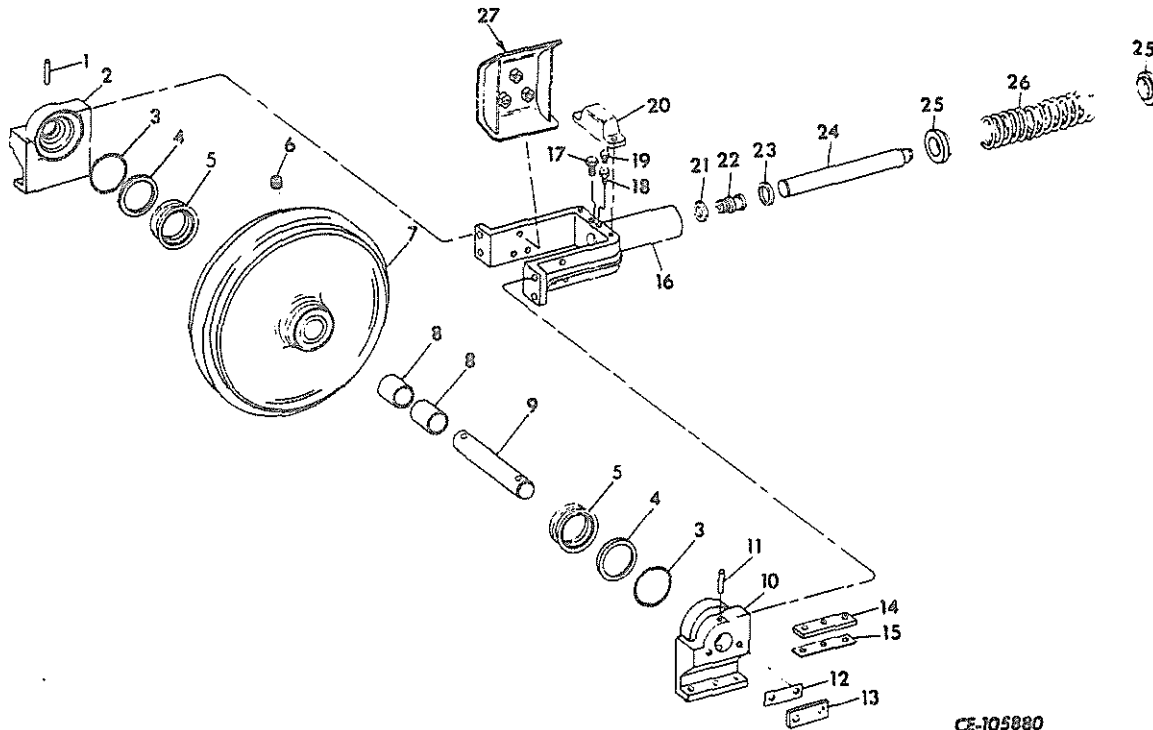
621 525 C91 ATTACHMENT, track frame cover
(See NOTE 3)
(Consists of -

1	621 526 C1 24 860 R1 116 121	COVER-Front, track frame (2) SCREW, hex-hd cap (8) WASHER, lock (8)
2	621 527 C1 24 860 R1 116 121 103 343	COVER-Rear, track frame (2) SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (For use w/bolt for mounting front idler scraper) (4)

SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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FRONT IDLER, FORK, TRACK ADJUSTER AND TRACK SPRING



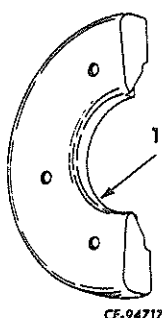
CE-105880

1	19 903 R1	PIN, foiled (2)	11	19 903 R1	PIN, coiled (2)
2	621 444 C1	SUPPORT, front idler (RH) (2)	12	621 446 C1	SHIM, front idler side (12)
3	655 278 C1	"O" RING, support sealing (4)	13	621 445 C1	PLATE, front idler thrust, side (4)
4	621 442 C1	WASHER, thrust (4)		24 872 R1	BOLT, hex-hd (8)
5	604 187 C91	SEAL, w/PAMPHLET 1 085 226 R3, metal face type front idler oil (X)		25 537 R1	WASHER, hardened (8)
5	606 133 C91	PACKAGE, front idler oil seal field service (Consists of two WASHER, two BAND, two WIPER and PAMPHLET, 1 019 085 R1) (For repair of SEAL, 604 187 C91) (X)	14	622 044 C1	BAR, front idler wear (4)
5	606 628 C91	PACKAGE, reunitionization field service (Consists of fifty retainer bands) (For repair of SEAL, 604 187 C91) (X)		870 325 R1	SCREW, hex-hd cap (12)
6	268 996 R1	PLUG (2)		115 314	WASHER, lock (12)
7	621 438 C93	IDLER, w/two BUSHING, 621 440 C4, front (2)	15	621 423 C1	SHIM, front idler bottom (8)
8	621 440 C4	BUSHING, front idler (4)	16	621 447 C1	FORK, front idler (2)
9	621 441 C1	SHAFT, front idler (2)		24 863 R1	SCREW, hex-hd cap (8)
10	621 443 C1	SUPPORT, front idler (LH) (2)		116 121	WASHER, lock (8)
			17	662 799 C1	PLUG, track adjuster bleeder (2)
				OR	
				319 628 R91	VALVE, track adjuster check (2)
				50 410 DA	PLUG, pipe (2)
			18	319 628 R91	VALVE, track adjuster check (2)
			19	109 461	FITTING, lubrication (2)
			20	621 430 C1	SHIELD, track adjuster valve (2)
				24 860 R1	SCREW, hex-hd cap (4)
				116 121	WASHER, lock (4)
			21		SEAL, track adjuster (Order PACKAGE, 622 825 C91) (2)
			22	622 049 C1	BODY, track adjuster piston (2)

SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FRONT IDLER, FORK, TRACK ADJUSTER AND TRACK SPRING - Continued			27	621 535 C1	SCRAPER, front idler (Not used with Front Idler Counterweight)
23		SCRAPER, track adjuster (Order PACKAGE, 622 825 C91) (2)		24 862 R1	SCREW, hex-hd cap (12)
24	621 448 C3	ROD, track adjuster (2)		116 121	WASHER, lock (12)
25	621 453 C1	RETAINER, track spring (4)	622 825 C91		PACKAGE, track adjuster seal (Consists of one SCRAPER and one SEAL) (X)
26	621 452 C1	SPRING, track (2)			

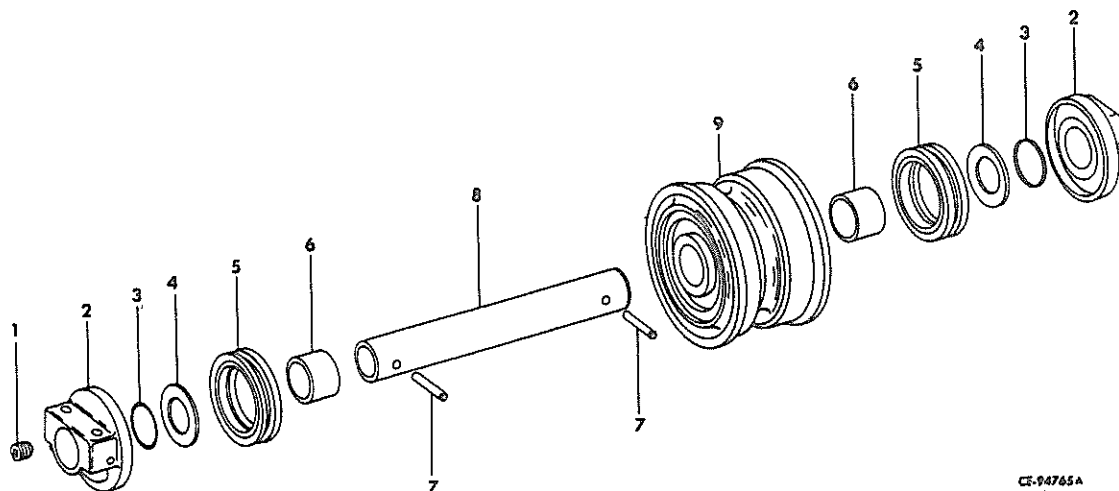
FRONT IDLER COUNTERWEIGHT



CE-94717

	621 542 C91	ATTACHMENT, front idler counterweight (See NOTE 2) (Consists of -
1	621 543 C2	COUNTERWEIGHT, front idler (8)
	9 412 230	NUT (Hardened) (12)
	24 867 R1	SCREW, hex-hd cap (12)
	25 555 R1	WASHER (Hardened) (24)

TRACK ROLLER

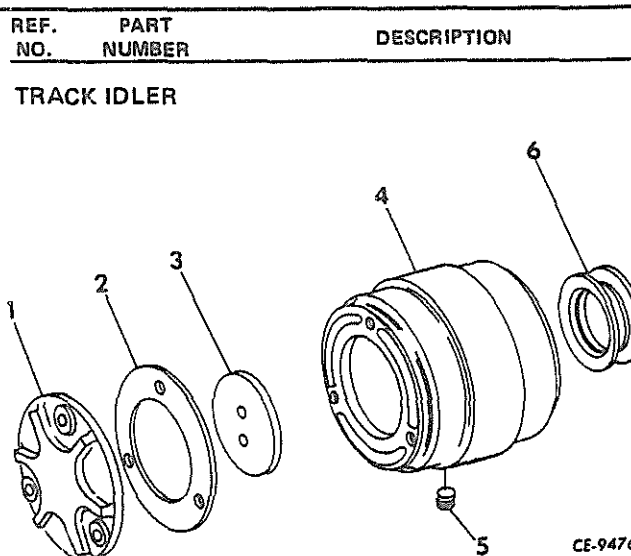


CE-94765A

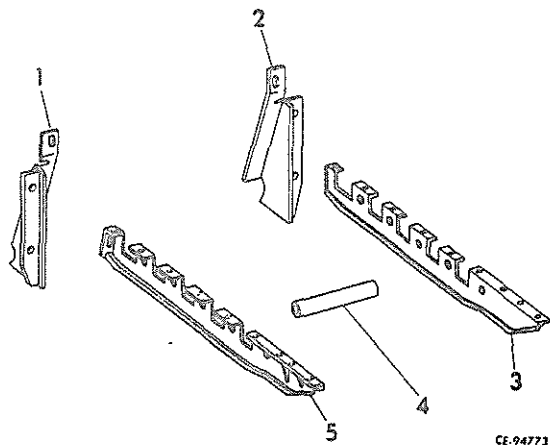
	621 481 C93	ROLLER, track (10)	5	604 187 C91	SEAL w/two WIPER and INSTRUCTION PAMPHLET, 1 085 226 R3, oil (2)
	25 340 R1	SCREW, hex-hd cap (40) (Consists of - -			
1	268 996 R1	PLUG, shaft	5	606 133 C91	PACKAGE, oil seal field service (Consists of two WASHER, two BAND, two WIPER, and PAMPHLET 1 019 085 R2) (For repair of SEAL, 604 187 C91) (x)
2	621 482 C1	BRACKET (2)			
3	655 267 C1	RING, track roller bracket sealing (2)			
4	621 476 C1	WASHER, thrust (2)			

SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION
TRACK ROLLER - Continued		
5	606 628 C91	PACKAGE, reunition band field service (Consists of 50 retaining BANDS)(PACKAGE to be used to service oil SEAL, 606 133 C91)(x)
6	621 474 C3	BUSHING (2)
7	22 390 R1	PIN, coiled spring (2)
8	621 475 C1	SHAFT
9	621 471 C94	ROLLER w/two BUSHING, 621 474 C3, track



TRACK ROLLER AND SPROCKET ROCK SHIELD



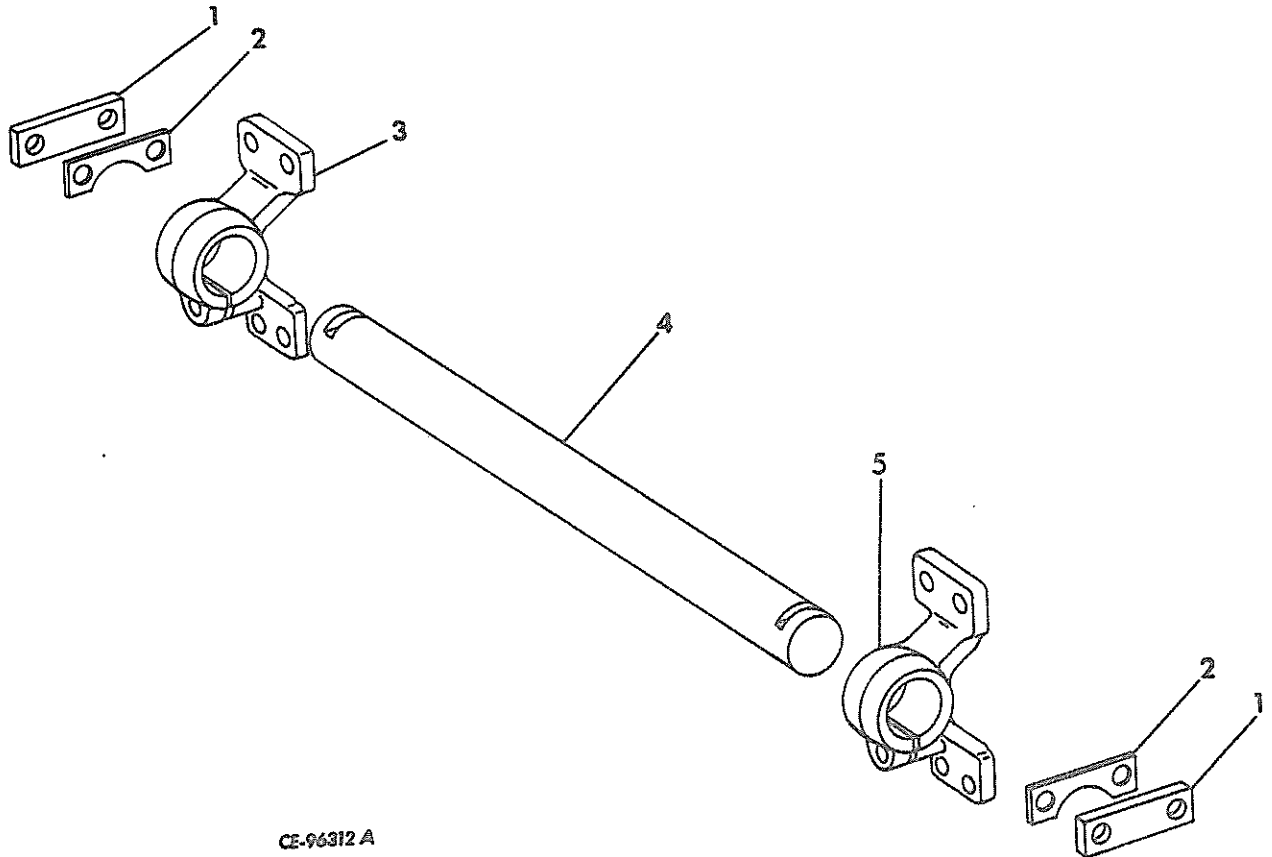
	621 176 C91	ATTACHMENT, track roller and sprocket rock shield (See NOTE 2) (Composed of -
1	621 399 C1 24 874 R1 25 547 R1 25 528 R1	DEFLECTOR - RH, sprocket rock (2) SCREW, hex-hd cap (6) WASHER, hardened (6) NUT (6)
2	621 398 C1 24 874 R1 25 547 R1 25 528 R1	DEFLECTOR - LH, sprocket rock (2) SCREW, hex-hd cap (6) WASHER, hardened (6) NUT (6)
3	621 387 C1 24 872 R1 25 547 R1	SHIELD - LH, track roller (2) SCREW, hex-hd cap (18) WASHER, hardened (18)
4	621 397 C1 25 923 R1 25 529 R1 39 422 D	SPACER, roller shield (10) SCREW, hex-hd cap (10) NUT (10) WASHER, hardened flat (40)
5	621 388 C1 271 556 609 298 C1	SHIELD - RH, track roller (2) SCREW, hex-hd cap (18) WASHER, hardened (18)

1	621 468 C1 101 896 R1 115 093	CAP, track idler (2) SCREW, hex-hd cap (6) WASHER, lock (6)
2	621 467 C1	GASKET, track idler cap (2)
3	621 466 C1 24 849 R1 115 314	PLATE, track idler thrust (2) SCREW, hex-hd cap (4) WASHER, lock (4)
4	621 469 C2	IDLER, track (2)
5	268 996 R1	PLUG, track idler (2)
6	604 412 C91	OIL SEAL w/PAMPHLET, 1 085 226 R3 (2)
	606 627 C91	PACKAGE, reunition band field service (Consists of 50 retainer bands) (For repair of SEAL, 604 412 C91) (X)
	606 252 C91	PACKAGE, idler oil seal field service (Consists of two rubber WASHER, two retainer BAND, two WIPER and PAMPHLET, 1 019 085 R2) (For repair of SEAL, 604 412 C91) (X)

SUSPENSION

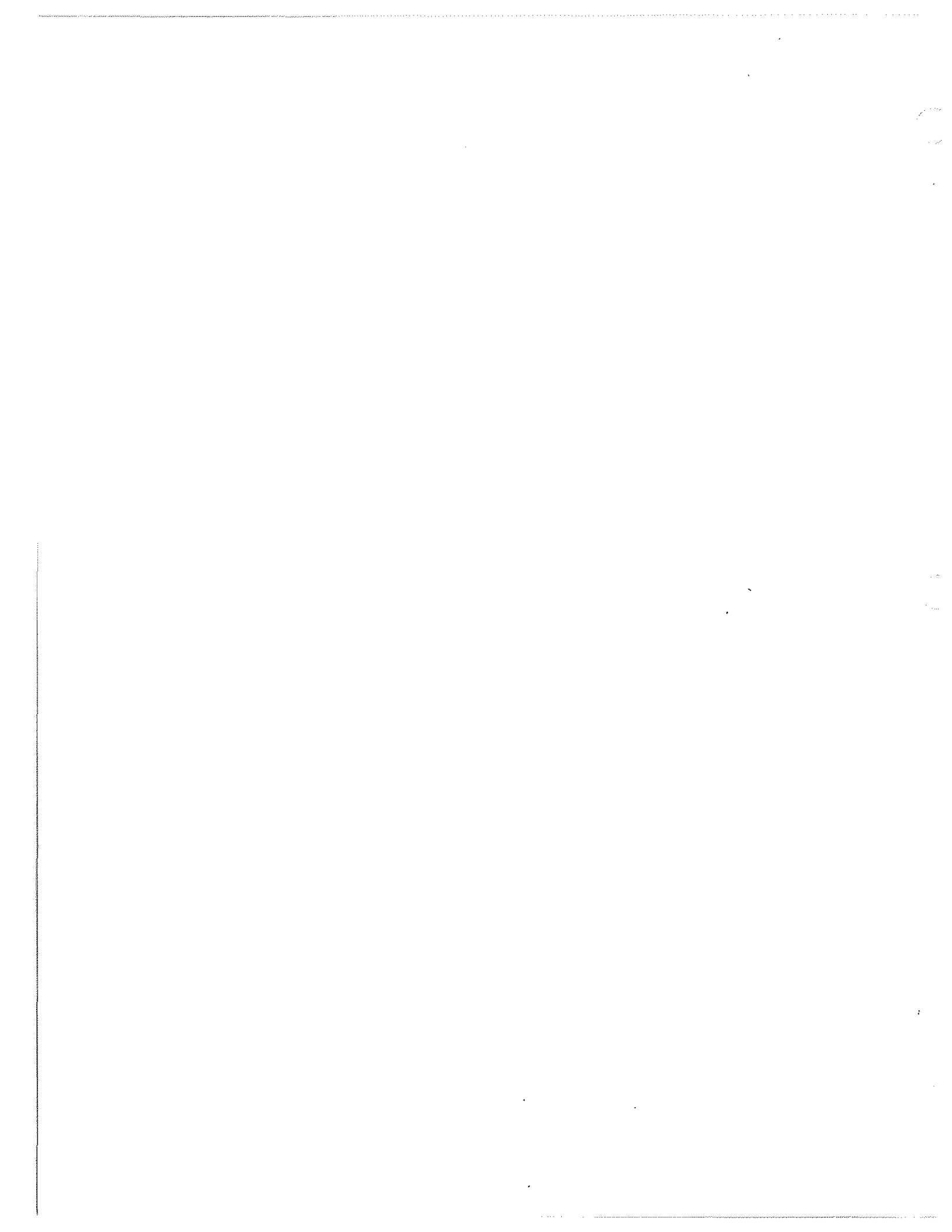
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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REAR CROSSBAR



CE-96312 A

1	621 410 C1	PLATE, crossbar lock (2)
	24 875 R1	BOLT (4)
	25 537 R1	WASHER, flat (4)
2	621 411 C1	SHIM, crossbar lock plate (As Required)
3	621 413 C1	SUPPORT - RH, crossbar
	25 740 R1	SCREW, 2-3/4" long hex-hd cap (4)
	25 741 R1	SCREW, 4" long hex-hd cap
	25 549 R1	WASHER, hardened (4)
	25 550 R1	WASHER, hardened
4	621 409 C1	CROSSBAR, rear rigid
5	621 412 C1	SUPPORT - LH, crossbar
	25 740 R1	SCREW, 7/8" long hex-hd cap (4)
	25 741 R1	SCREW, 1" long hex-hd cap
	25 549 R1	WASHER, hardened (4)
	25 550 R1	WASHER, hardened



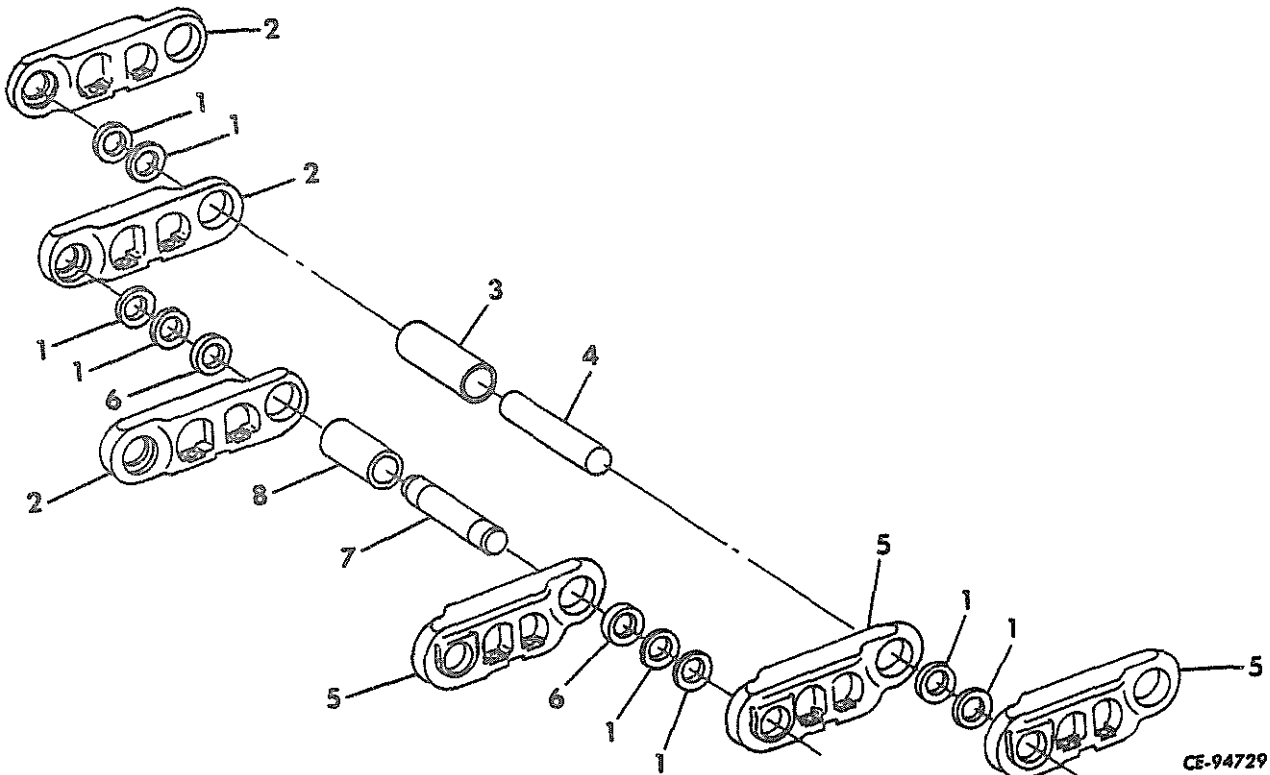
**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

WHEELS AND TRACTION 15

WHEELS AND TRACTION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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TRACK CHAIN



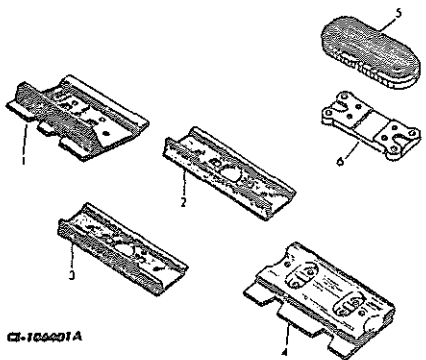
	703 125 C92	CHAIN ASSY, track (2) (Composed of -			
1	616 187 C1	SEAL, track chain (144)			
2	616 185 C2	LINK - LH, track (36)			
3	621 299 C1	BUSHING, track link (35)			
4	263 975 R1	PIN, track link (35)			
5	616 186 C2	LINK - RH, track (36)			
6	616 189 C1	SPACER, master bushing (2)			
7	616 190 C1	PIN, track link master			
8	621 402 C1	BUSHING, track link master			
	636 558 C91	CHAIN ASSY, w/16" track SHOE (Replaces 318 839 C91) (Chains service one side of tractor. When both sides are to be serviced, order two assemblies) (Composed of -			
	1	CHAIN	703 125 C92		
	36	SHOE	49 467 DC		
	144	BOLT	414 053 C1		
	144	NUT	616 192 C1)		

	636 560 C91	CHAIN ASSY, w/16" open center track SHOE (Replaces 662 532 C91) (Chains service one side of tractor. When both sides are to be serviced, order two assemblies) (Composed of -			
	1	CHAIN	703 125 C92		
	36	SHOE	636 565 C1		
	144	BOLT	414 053 C1		
	144	NUT	616 192 C1)		

CE-94729

WHEELS AND TRACTION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACK SHOES			2	270 824 R1	SHOE, staggered lug grouser track - 16" (End lug grouser) (Part of ATTACHMENT, 270 822 R92) (36)
				414 053 C1	BOLT (288)
				616 192 C1	NUT (288)
			3	57 515 DA	SHOE, staggered lug grouser track - 15" (Center lug grouser) (36)
			3	270 823 R1	SHOE, staggered lug grouser track - 16" (Center lug grouser) (Part of ATTACHMENT, 270 822 R92) (36)
				414 053 C1	BOLT (288)
				616 192 C1	NUT (288)
			4	9245 DA	SHOE, flat track - 15" (O - lap flat) (Part of ATTACHMENT, 254 981 R92) (72)
				414 053 C1	BOLT (288)
				616 192 C1	NUT (288)
1	49 471 DD	SHOE, clipped corner track - 13" (Part of ATTACHMENT, 622 607 C91) (Order SHOE, 46 839 DC) (72)	5	19 589 DBY	SHOE ASSY. rubber (Consists of - SHOE, 19 589 DB, four NUT, 25 676 R1 and four STUD, 256 020 R1) (Part of ATTACHMENT, 629 955 C91) (72)
1	46 839 DC	SHOE, square corner track - 13" (Part of ATTACHMENT, 636 542 C91) (72)	5	19 589 DB	SHOE, rubber (Part of SHOE, 19 589 DBY) (72)
1	49 473 DD	SHOE, clipped corner track - 16" (Part of ATTACHMENT, 330 995 R92) (Order SHOE, 49 467 DC) (72)		25 676 R1	NUT (Part of SHOE, 19 589 DBY) (288)
1	49 467 DC	SHOE, square corner track - 16" (Part of ATTACHMENT, 636 548 C91) (72)		256 020 R1	STUD (Part of SHOE, 19 589 DBY) (288)
1	622 375 C1	SHOE, clipped corner track - w/Mud Relief 16" (Part of ATTACHMENT, 622 909 C91) (Order SHOE, 636 555 C1) (72)	6	5 370 D	PLATE, rubber shoe base (Part of ATTACHMENT, 629 955 C91) (72)
1	636 555 C1	SHOE, square corner track - w/Mud Relief 16" (Part of ATTACHMENT, 636 557 C91) (72)		414 053 C1	BOLT (288)
1	662 506 C1	SHOE, clipped corner LH track - 18" (Part of ATTACHMENT, 629 529 C91) (Order SHOE, 636 553 C1) (36)		616 192 C1	NUT (288)
1	636 553 C1	SHOE, square corner LH track - 18" (Part of ATTACHMENT, 636 549 C91) (36)		622 607 C91	ATTACHMENT, clipped 13" track shoe (Includes 72 SHOE, 49 471 DD, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)
1	662 507 C1	SHOE, clipped corner RH track - 18" (Part of ATTACHMENT, 629 529 C91) (Order SHOE, 636 554 C1) (36)		636 542 C91	ATTACHMENT, square corner 13" track shoe (Includes 72 SHOE, 46 839 DC, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)
1	636 554 C1	SHOE, square corner RH track - 18" (Part of ATTACHMENT, 636 549 C91) (36)		330 995 R92	ATTACHMENT, clipped corner 16" track shoe (Includes 72 SHOE, 49 473 DD, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)
	414 053 C1	BOLT (288)		636 548 C91	ATTACHMENT, square corner 16" track shoe (Includes 72 SHOE, 49 467 DC, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)
	616 192 C1	NUT (288)		622 909 C91	ATTACHMENT, 16" clipped corner w/Mud Relief, track shoe (Includes 72 SHOE, 622 375 C1, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)
2	57 516 DA	SHOE, staggered lug grouser track - 15" (End lug grouser) (36)			



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WHEELS AND TRACTION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRACK SHOES - Continued					
636 557	C91	ATTACHMENT, 16" square corner w/Mud Relief, track shoe (Includes 72 SHOE, 636 555 C1, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)			
629 529	C91	ATTACHMENT, 18" offset track shoe (Not used with outside arm bullgrader) (Includes 36 SHOE, 662 506 C1, 36 SHOE, 662 507 C1, 288 BOLT, 414 053 C1 and 288 NUT, 192 C1) (See NOTE 3)			
636 549	C91	ATTACHMENT, 18" offset track shoe (Not used w/outside arm bullgrader) (Includes 36 SHOE, 636 553 C1, 36 SHOE, 636 554 C1, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)			
270 822	R92	ATTACHMENT, 16" staggered lug grouser track shoe (Includes 36 SHOE, 270 824 R1, 36 SHOE, 270 823 R1, 288 BOLT, 414 053 C1, and 288 NUT, 616 192 C1) (See NOTE 3)			
254 981	R92	ATTACHMENT, 15" flat track shoe (Includes 72 SHOE, 9245 DA, 288 BOLT, 616 191 C1 and 288 NUT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)			
629 955	C91	ATTACHMENT, rubber track shoe (Includes 72 SHOE, 19 589 DBY, 72 PLATE, 5 370 D, 288 BOLT, 616 191 C1 and 288 NUT, 414 053 C1) (See NOTE 3)			

NOT USED ON THIS MACHINE

BODY-BOWL

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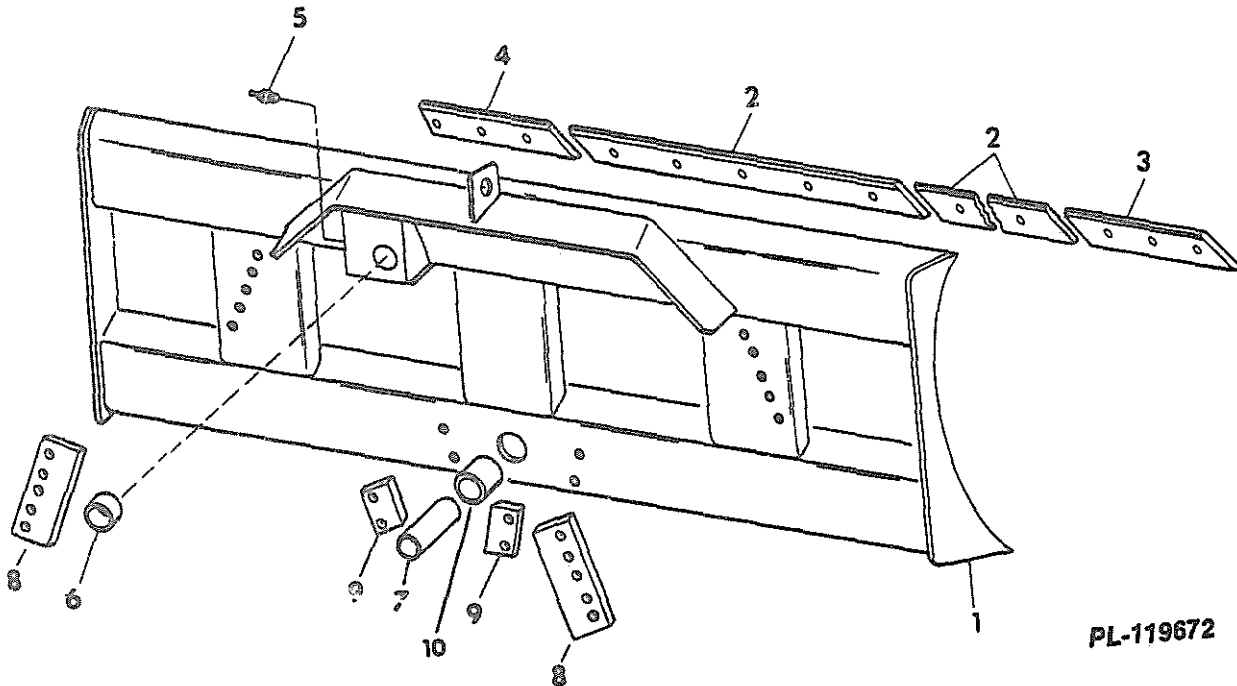
**REFER TO ALPHABETICAL INDEX
FOR COMPLETE LISTING OF PARTS**

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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BLADE

(For Model G8H Inside Arm Hydraulic Bullgrader)



1	620 689 C92	BLADE ASSY. (Order BLADE, 632 767 C91 and PACKAGE, 636 803 C91)	4	627 585 C1	BIT-LH, cast end (Part of cast end bit ATTACHMENT)
				198 560 H1	BOLT, head plow (3)
				25 529 R1	NUT (3)
1	632 767 C92	BLADE ASSY., (Together w/PACKAGE 636 803 C91 will work for BLADE, 620 689 C92) (Composed of -	5	109 461	FITTING, lubrication
		1 BIT 620 691 C1	6	618 962 C1	BUSHING
		1 BIT 620 692 C1	7	620 693 C2	PIN, main
		1 BLADE	8	646 669 C1	PLATE, upper retainer (Used w/ BLADE 620 689 C92) (2)
		1 BUSHING 618 962 C1		24 888 R1	SCREW, hex-hd cap (8)
		2 EDGE 620 690 C1)		646 667 C1	SHIM, side channel (6)
		(Hardware to cover bolt access hole	8	705 760 C1	PLATE, upper retainer (Used w/ BLADE 632 767 C91) (2)
		1 BOLT 25 496 R1		24 888 R1	SCREW, hex-hd cap (10)
		1 NUT 9 413 979		705 761 C1	SHIM, side channel (8)
		2 WASHER 27 701 R1)			
2	620 690 C1	EDGE, cutting (2)	9	646 670 C1	PLATE, lower retainer (2)
	198 560 H1	BOLT, head plow (10)		24 888 R1	SCREW, hex-hd cap (4)
	25 529 R1	NUT (10)		646 669 C1	SHIM
3	620 692 C1	BIT-RH, end			(6) for use w/BLADE, 620 689 C92
3	627 586 C1	BIT-RH, cast end (Part of cast end bit ATTACHMENT)			(4) for use w/BLADE, 632 767 C91
	198 560 H1	BOLT, head plow (3)	10	705 734 C1	BUSHING, main pin
	25 529 R1	NUT (3)		626 569 C91	ATTACHMENT, cast end bit (Consists of BIT, 627 585 C1 and BIT, 627 586 C1) (See NOTE 1)
4	620 691 C1	BIT-LH, end			

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MOUNTED EQUIPMENT

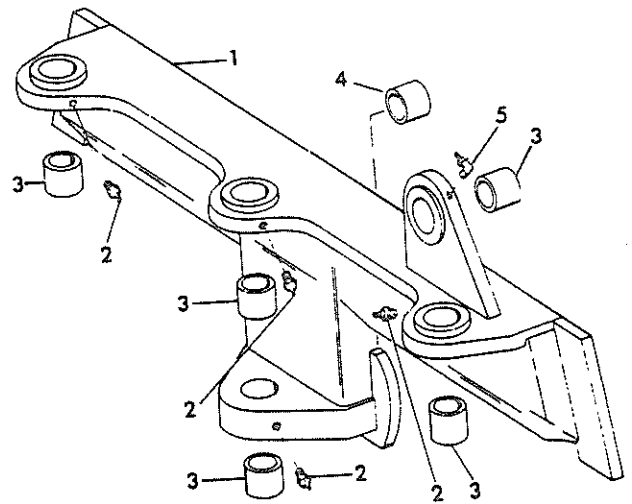
REF. NO.	PART NUMBER	DESCRIPTION
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BLADE – Continued
(For Model G8H Inside Arm Hydraulic Bullgrader)

632 769 C91	PACKAGE, blade and angling frame field improvement (For use on machines equipped w/BLADE, 620 689 C92 and ANGLING FRAME, 618 990 C91) (See NOTE 2)
	(Consists of -
\$ 1	BEAM
\$ 2	BLOCK
2	BUSHING 705 734 C1
\$ 3	CHANNEL
\$ 2	END CASTING
\$ 1	GUSSET
1	PAMPHLET 1 085 841 R1
1	PIN 620 693 C2
\$ 1	PLATE
2	PLATE 646 670 C1
2	PLATE 705 760 C1
6	SHIM 646 669 C1
10	SHIM 705 761 C1
\$ 2	STRIP
\$ 1	TUBE

636 803 C91	PACKAGE, angling frame field improvement (To adapt ANGLING FRAME, 618 990 C91 to BLADE, 632 767 C91)
	(Consists of -
14	BOLT 24 888 R1
1	BUSHING 705 734 C1
\$ 2	END CASTING
1	PAMPHLET 1 085 841 R1
1	PIN 620 693 C2
\$ 1	PLATE
2	PLATE 646 670 C1
2	PLATE 705 760 C1
4	SHIM 646 669 C1
8	SHIM 705 761 C1
\$ 1	TUBE

ANGLING FRAME
(For Model G8H Inside Arm Hydraulic Bullgrader)



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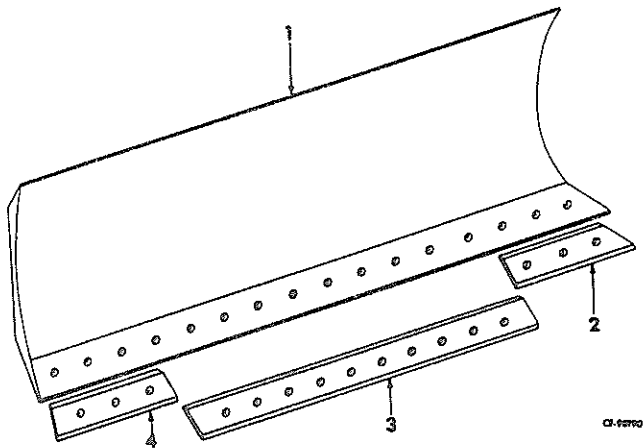
1	618 990 C91	FRAME (Order FRAME, 705 768 C91 and PACKAGE, 636 804 C91)
1	705 768 C91	FRAME w/five BUSHING, 618 962 C1, angling (Together w/PACKAGE 636 804 C91 will work for FRAME 618 990 C91)
2	109 461	FITTING, lube (4)
3	618 962 C1	BUSHING, angling frame (5)
4	705 734 C1	BUSHING, main pin (For use w/FRAME, 705 768 C91)
5	109 462	FITTING, lube
	636 804 C91	PACKAGE, blade field improvement (To adapt BLADE, 620 689 C92 to ANGLING FRAME, 705 768 C91)
		(Consists of -
	\$ 1	BEAM
	\$ 2	BLOCK
	14	BOLT 24 888 R1
	\$ 3	CHANNEL
	\$ 1	GUSSET
	1	PAMPHLET 1 085 841 R1
	1	PIN 620 693 C2
	2	PLATE 646 670 C1
	2	PLATE 705 760 C1
	4	SHIM 646 669 C1
	8	SHIM 705 761 C1
	\$ 2	STRIP

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MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
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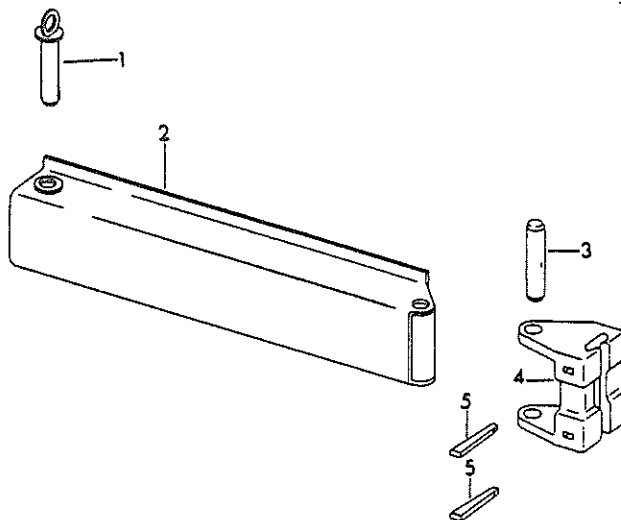
BLADE
(For Model 8G2 Outside Arm Hydraulic Bullgrader)



1	647 282 C91	BLADE, w/CUTTING EDGE ASSY (Composed of - \$ 1 BLADE 1 EDGE 954 489 R1 1 EDGE 954 490 R1 1 EDGE 954 491 R1)
2	954 490 R1 25 529 R1 292 845 R1	EDGE, LH tip cutting NUT (3) BOLT, plow (3)
3	954 489 R1 25 529 R1 292 845 R1	EDGE, center cutting NUT (11) BOLT, plow (11)
4	954 491 R1 25 529 R1 646 534 R1	EDGE, RH tip cutting NUT (3) BOLT (3)

REF. NO.	PART NUMBER	DESCRIPTION
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ANGLE PUSH ARMS
(For Model 8G2 Outside Arm Hydraulic Bullgrader)



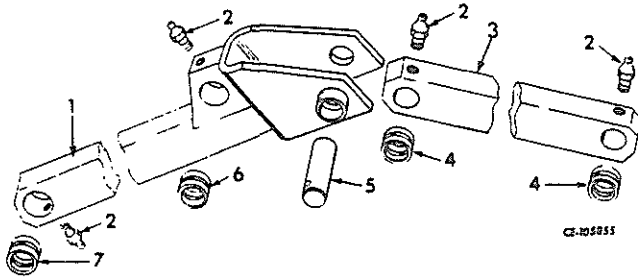
1	647 139 C2	PIN, push arm (2)
2	647 095 C1	ARM, push (2)
3	647 149 C1	PIN (4)
4	9 412 230 275 635	NUT, elastic stop (4) SCREW, hex-hd cap (4)
4	647 180 C2	CASTING, push arm (2)
5	647 012 C1 142 544	WEDGE, tilt adjusting (4) PIN, long groove

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MOUNTED EQUIPMENT

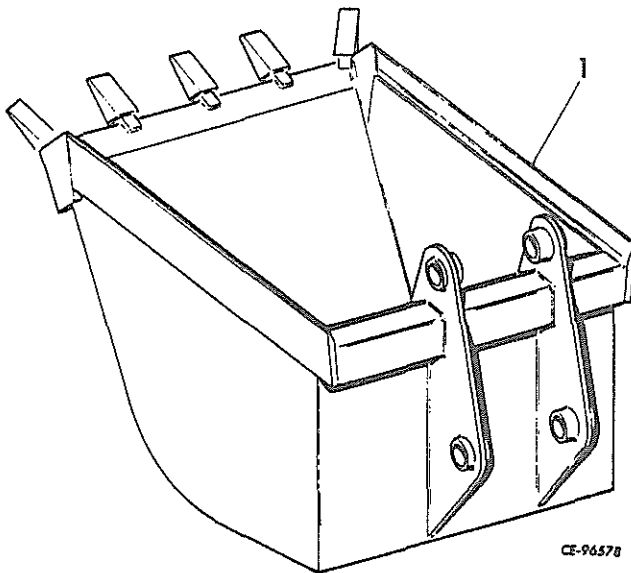
REF. NO.	PART NUMBER	DESCRIPTION
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PIVOT AND LIFT ARMS
(For Model 8G2 Outside Arm Hydraulic Bullgrader)



1	646 401 C94	ARM w/BUSHING, 618 962 C1 and BUSHING, 952 666 R1, LH radius
1	646 402 C94	ARM with BUSHING, 618 962 C1 and BUSHING, 952 666 R1, RH radius
2	110 146 R91	FITTING, lubrication (8)
3	647 021 C91	ARM with two BUSHING, 952 666 R1) (2)
4	952 666 R1	BUSHING (4)
5	620 621 C1	PIN (2)
	9 413 979	NUT, elastic stop (2)
	21 318 R1	SCREW, hex-hd cap (2)
6	618 962 C1	BUSHING (2)
7	952 666 R1	BUSHING (2)

BACKHOE BUCKETS



REF. NO.	PART NUMBER	DESCRIPTION
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BACKHOE BUCKETS - Continued

1	61 527 C91	ATTACHMENT, 24" heavy duty bucket (6.0 cu. ft.) (See NOTE 3)
1	61 526 C91	ATTACHMENT, 30" heavy duty backhoe bucket (7.0 cu. ft.) (See NOTE 2)
1	61 525 C91	ATTACHMENT, 36" heavy duty backhoe bucket (8.4 cu. ft.) (See NOTE 2)
1	61 528 C91	ATTACHMENT, 24" hi-capacity heavy duty backhoe bucket (7.0 cu. ft.) (See NOTE 3)
1	547 117 R91	ATTACHMENT, 24" hi-capacity backhoe bucket (7.0 cu. ft.) (See NOTE 2)
1	547 118 R91	ATTACHMENT, 30" hi-capacity backhoe bucket (10.0 cu. ft.) (See NOTE 2)
1	543 030 R91	ATTACHMENT, 13" standard backhoe bucket (2.5 cu. ft.) (See NOTE 3)
1	547 121 R91	ATTACHMENT, 16" standard backhoe bucket (3.5 cu. ft.) (See NOTE 2)
1	547 122 R91	ATTACHMENT, 18" standard backhoe bucket (4.0 cu. ft.) (See NOTE 3)
1	547 123 R91	ATTACHMENT, 20" standard backhoe bucket (4.5 cu. ft.) (See NOTE 2)
1	547 125 R91	ATTACHMENT, 24" standard backhoe bucket (6.0 cu. ft.) (See NOTE 2)
1	547 128 R91	ATTACHMENT, 30" standard backhoe bucket (8.0 cu. ft.) (See NOTE 2)
1	547 131 R91	ATTACHMENT, 36" standard backhoe bucket (10.0 cu. ft.) (See NOTE 2)
1	547 116 R91	ATTACHMENT, 36" cemetery (bell hole) backhoe bucket (7.0 cu. ft.) (See NOTE 2)

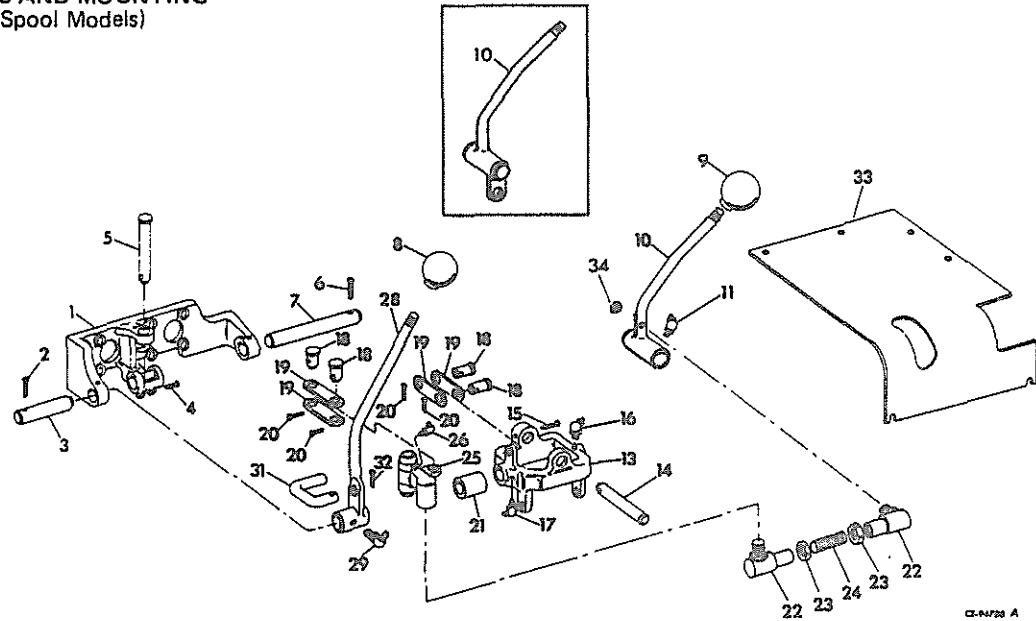
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BACKHOE (MODEL 3142A)					
632 148 C91		ATTACHMENT, backhoe, Model 3142A w/o bucket (Used w/backhoe mounting plate)(For service parts refer to Backhoe Parts Catalog PC 3142A)(See NOTE 3)			
710 271 C91		ATTACHMENT, backhoe w/adaption parts, model 3142A w/o bucket (Not for use on machines equipped w/rigid or swinging drawbar, ripper, winch, canopy roof extension or canopy rear screen)(If R.O.P.S. canopy is to be used with this attachment, only arched canopy mount is compatible. Machine must be equipped w/reversible fan. A hydraulic conversion package must be ordered unless machine is already equipped with a backhoe hydraulic control unit) (See NOTE 2)			
710 265 C91		(Consists of - BACKHOE w/o BUCKET, model 3142A (For service parts Refer to Backhoe Parts Catalog PC 3142A) (See NOTE 3) DOOR, radiator guard (Refer to "Front Frame") TOOL, fan reversing (Refer to "Tools and Tool Box") PLATE, backhoe mounting (Refer to "Backhoe Mounting Plate")			
454 104		ELBOW			
187 396		COUPLING			
12 989 R1		NIPPLE, 3/8" pipe			
CZG 4915		DRAWING			

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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CONTROLS AND MOUNTING
(For Three Spool Models)



1	623 031 C1 25 483 R1 119 109	BRACKET, control mounting SCREW WASHER, lock (4)	20	103 379	PIN, cotter
2	20 328 R1	PIN, cotter	21	623 036 C1	TUBE, spacer
3	623 034 C1	SHAFT, control	22	653 867 C1	JOINT, control ball (Replaces 158 397 H1) (2)
4	119 120	PIN, cotter	23	114 494	NUT, jam (2)
5	623 043 C1	PIN, rod end	24	257 264 C1	ROD, control
6	20 328 R1	PIN, cotter	25	623 041 C2	BELLCRANK, control
7	623 033 C1	SHAFT, control support	26	117 175	FITTING, lubrication
8	264 097 R2	KNOB, lever	28	623 039 C1	LEVER, control
9	264 055 R2	KNOB, lever	28	667 119 C1	LEVER, control
10	623 038 C1	LEVER, control			5731 and below
10	667 010 C1	LEVER, control			5732 and up
11	117 175	FITTING, lubrication	29	16 964 R91	FITTING, lubrication
13	623 032 C1	SUPPORT, linkage	31	623 037 C2	LINK, valve
14	623 035 C1	PIN, lever	32	107 763	PIN, cotter
15	137 209	PIN, cotter	33	623 042 C1	COVER, control linkage (For all models except backhoe)
16	117 175	FITTING, lubrication	33	629 775 C1	COVER, control linkage (For all models except backhoe)
17	16 964 R91	FITTING, lubrication	33	645 207 C1	COVER, control linkage (For backhoe models)
18	103 495	PIN, rod end (4)			5731 and below
19	645 011 C2	LINK, valve (4)			5732 to 6257

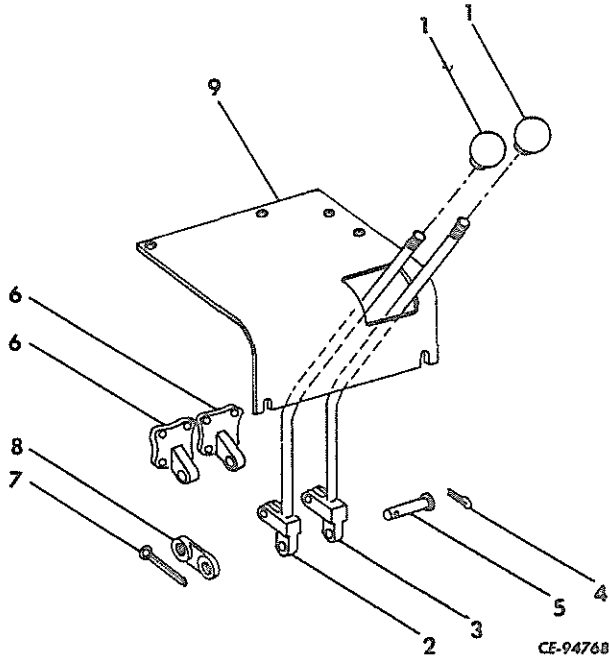
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CONTROLS AND MOUNTING - Continued					
(For Three Spool Models)					
33	667 168 C1	COVER, control linkage (For back- hoe models)			
				5732 to 6257	
	24 939 R1	SCREW, hex hd cap (4)			
	103 341	WASHER, flat (2)			
	115 093	WASHER, lock (4)			
33	705 941 C1	COVER, control linkage			6258 and up
34	9413 980	NUT			

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
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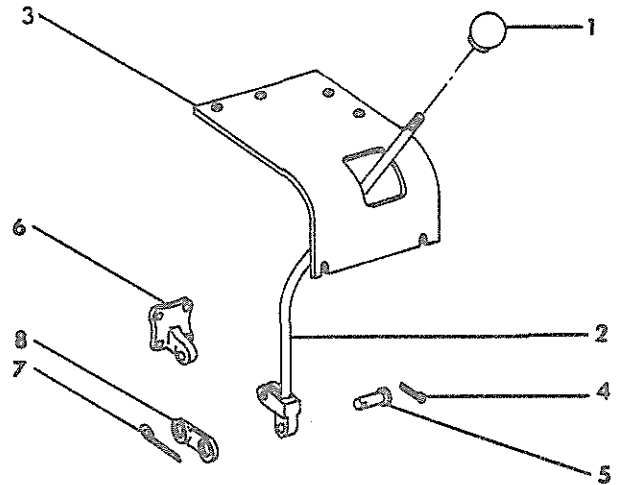
CONTROLS AND MOUNTING
(For Two Spool Models)



1	264 097 R2	KNOB, control lever (2)
2	623 076 C1	LEVER, control
3	623 078 C1	LEVER, control
4	119 117	PIN, cotter (2)
5	139 541 H	PIN, rod end (2)
6	623 074 C1 132 264 721 637	BRACKET, mounting (2) SCREW, hex-hd cap (8) WASHER, lock (8)
7	103 365	PIN, cotter (2)
8	623 079 C1	PIN, link (2)
9	623 082 C1	COVER, control (For all models except backhoe) 6257 and below
9	645 209 C1 24 839 R1 115 093 103 341	COVER, control (For backhoe models) 6257 and below SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (2)
9	710 225 C1	COVER, control 6258 and up

REF. NO.	PART NUMBER	DESCRIPTION
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CONTROLS AND MOUNTING
(For One Spool Models)

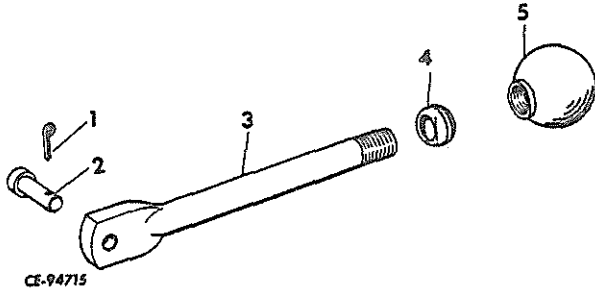


1	264 097 R2	KNOB, control lever
2	623 078 C1	LEVER, control
3	623 081 C1 24 839 R1 115 093 103 341	COVER, control (For all models except backhoe) 6257 and below SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (2)
3	645 208 C1	COVER, control (For backhoe models) 6257 and below
3	710 224 C1	COVER, control 6258 and up
4	119 117	PIN, cotter
5	139 541 H	PIN, rod end
6	623 074 C1 132 264 721 637	BRACKET, control lever SCREW, hex-hd cap (4) WASHER, lock (4)
7	103 365	PIN, cotter
8	623 079 C1	LINK, pin

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
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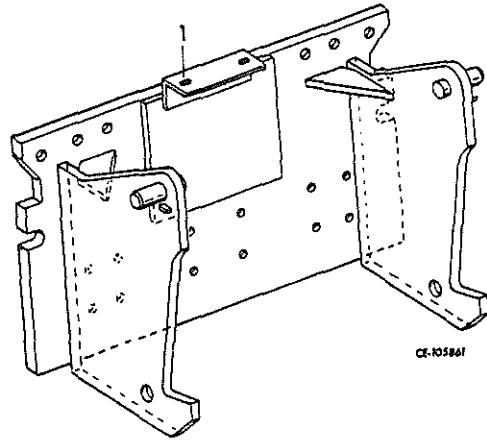
CONTROLS AND MOUNTING
(For Backhoe Models)



1	103 409	PIN, cotter
2	42 947 V	PIN, rod end
3	645 206 C1	LEVER, diverter valve control
4	117 964	GROMMET
5	264 097 R2	KNOB, backhoe control lever

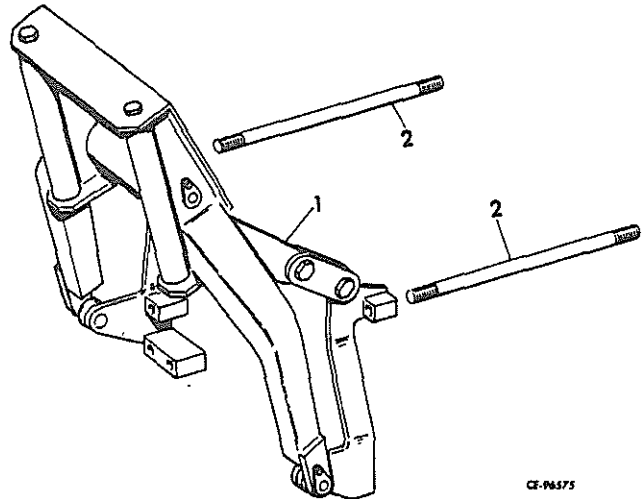
REF. NO.	PART NUMBER	DESCRIPTION
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BACKHOE MOUNTING PLATE



1	59 943 C1	PLATE, backhoe mounting 6257 and below
1	103 347 C2	PLATE, backhoe mounting (Part of ATTACHMENT, 710 271 C91) 6258 and up
	25 848 R1	BOLT, 1-1/8" dia. (4)
	24 890 R1	BOLT, 3/4" dia. (8)

LOGGING ARCH (MODEL 78)

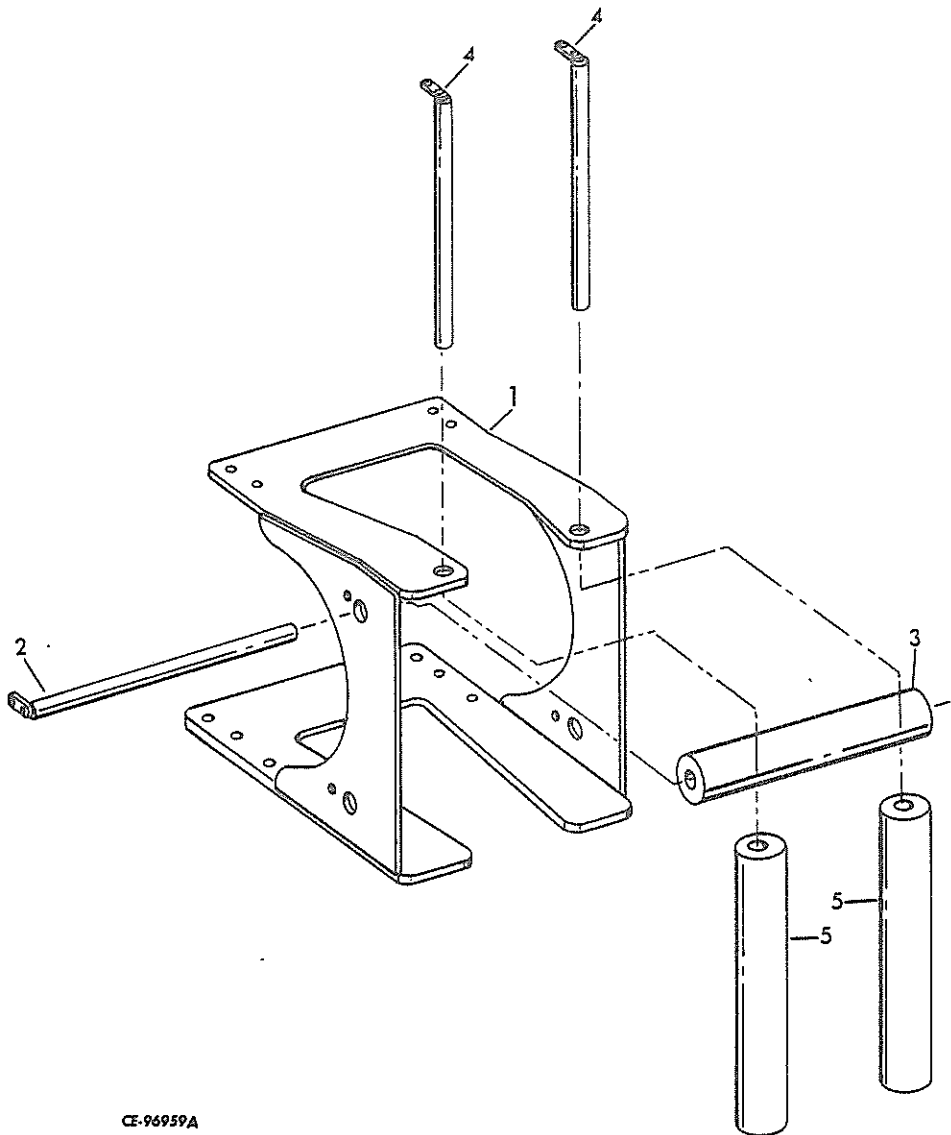


	622 932 C91	ATTACHMENT, logging arch (Model 78) (for use on models equipped with Gearmatic # 19 Winch) (See NOTE 2)
1	622 930 C91	ARCH, Model 78 logging
2	622 429 C1	BAR, tie (2)

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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THREE ROLLER FAIRLEAD



CE-96959A

627 395 C91	ATTACHMENT, gearmatic three roller fairlead (for use on models equipped with Gearmatic # 19 Winch) (Not used on models equipped with Logging Arch) (See NOTE 2)	2	631 847 C91	SHAFT, upper roller
	(Consists of -		179 812	SCREW, hex-hd cap
1	BODY (Order ATTACHMENT, 627 395 C91)		103 320	WASHER
271 611	SCREW, hex-hd cap (10)	3	631 848 C91	ROLLER, upper
103 326	WASHER (10)	4	631 846 C91	SHAFT, side roller (2)
			179 812	SCREW, hex-hd cap (2)
			103 320	WASHER (2)
		5	631 845 C91	ROLLER, side (2)

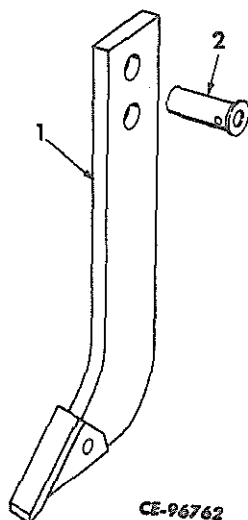
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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RIPPER (MODEL 397)

541 474 R91 ATTACHMENT, ripper w/mounting plate (must be used w/Rear Auxiliary circuit or Rear Auxiliary circuit w/Diverter valve) (Cannot be used w/swinging drawbar or winch) (Not for Backhoe Models) (For service parts, refer to your Scarifier and Ripper Parts catalog SR-1) (See NOTE 2)

ADDITIONAL RIPPER TOOTH

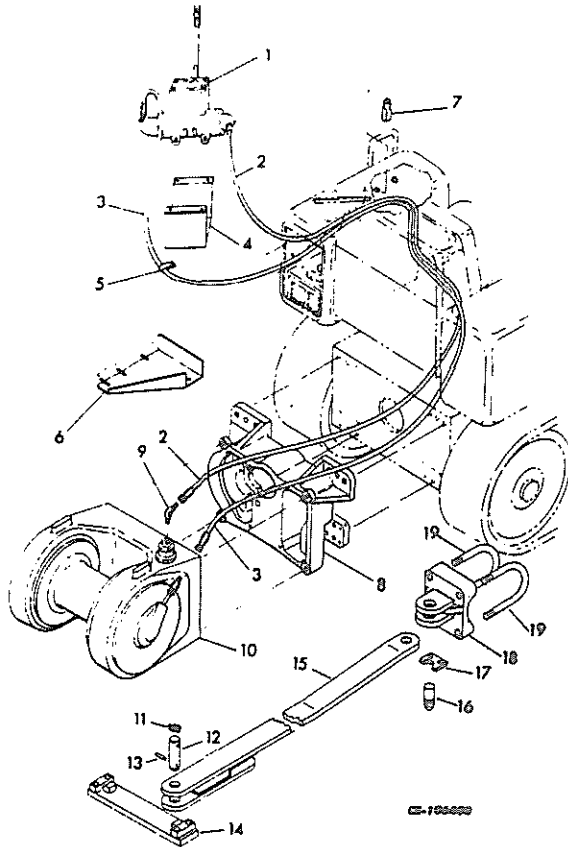


541 086 R92 ATTACHMENT, additional ripper tooth (single tooth) (For use on models equipped w/ripper. A maximum of five teeth total can be mounted on ripper at one time. One or two additional tooth attachments may be used on basic ripper) (See NOTE 1)

- (Consists of -
- 1 540 976 R93 TOOTH, ripper
 - 2 492 472 R2 PIN, headed
 - 180 042 SCREW, hex-hd cap
 - 23 911 R1 NUT, insert

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH AND DRAWBAR					
			3	627 286 C1	HOSE w/FITTINGS, clutch port on control to clutch port on winch (HOSE, 1/4" ID x 102" long including FITTINGS) (A and B)
			4	628 043 C1 25 522 R1 24 840 R1 115 093	SUPPORT, winch control(A and B) NUT (4) BOLT (4) WASHER, flat (4)
			5	308 575 R1	CLAMP, hose (A and B)
			6	628 044 C1 24 840 R1 115 093 103 341	PLATE, battery cover (A and B) BOLT WASHER, lock WASHER, flat
			7	323 413 R1	CLAMP, hose (A and B)
			8		ADAPTER ASSY, winch (Refer to "Gearmatic Winch Adapter") (A and B)
			9	9 402 823	ELBOW, 45° (B port) (A and B)
			10		WINCH ASSY, (Refer to "Gearmatic Winch Housing and Cover, Gearmatic Brake Cylinder and Hydraulic Tube, Gearmatic Winch Drum and Brake Band, Gearmatic Winch Clutch, Gearmatic Winch Ring Gear and Pinion Shaft")(A and B)
			11	621 006 C1	PIN, quick attaching (A and C)
			12	621 005 C1	PIN, drawbar clevis (A and C)
			13	19 998 R1	PIN, coiled spring (A and C)
			14	652 701 C1 652 706 C1 24 896 R1 25 538 R1	HANGER, drawbar (A and C) SPACER, drawbar plate (2) BOLT (4) WASHER (4)
			15	668 726 C1	DRAWBAR (A and C)
			16	621 010 C1	PIN, drawbar pivot (A and C)
			17	345 552 R1 25 534 R1 24 840 R1	PLATE, pivot pin lock (A and C) WASHER, flat (2) BOLT (2)
			18	621 016 C1	BRACKET, drawbar pivot (A and C)
			19	621 017 C1 25 537 R1 25 526 R1	"U" BOLT, pivot bracket (A and C)(2) WASHER, flat (4) NUT (4)
A	652 733 C91	ATTACHMENT, gearmatic No. 19 winch with drawbar. (Not used with backhoe, Ripper, or standard rear canopy mount) (See NOTE 3)			
B	738 607 C91	ATTACHMENT, gearmatic No. 19 winch w/o drawbar (Not used with backhoe, Ripper or standard rear Canopy mount) (See NOTE 2)			
C	738 603 C91	ATTACHMENT, swinging drawbar (Used with winch and no rigid drawbar) (See NOTE 2) (Consists of -			
1		CONTROL ASSY, winch master (Refer to "Gearmatic Winch Master Control") (A and B)			
2	627 286 C1	HOSE w/FITTINGS, brake port on control to brake port on winch (HOSE, 1/4" ID x 102" long including FITTINGS) (A and B)			



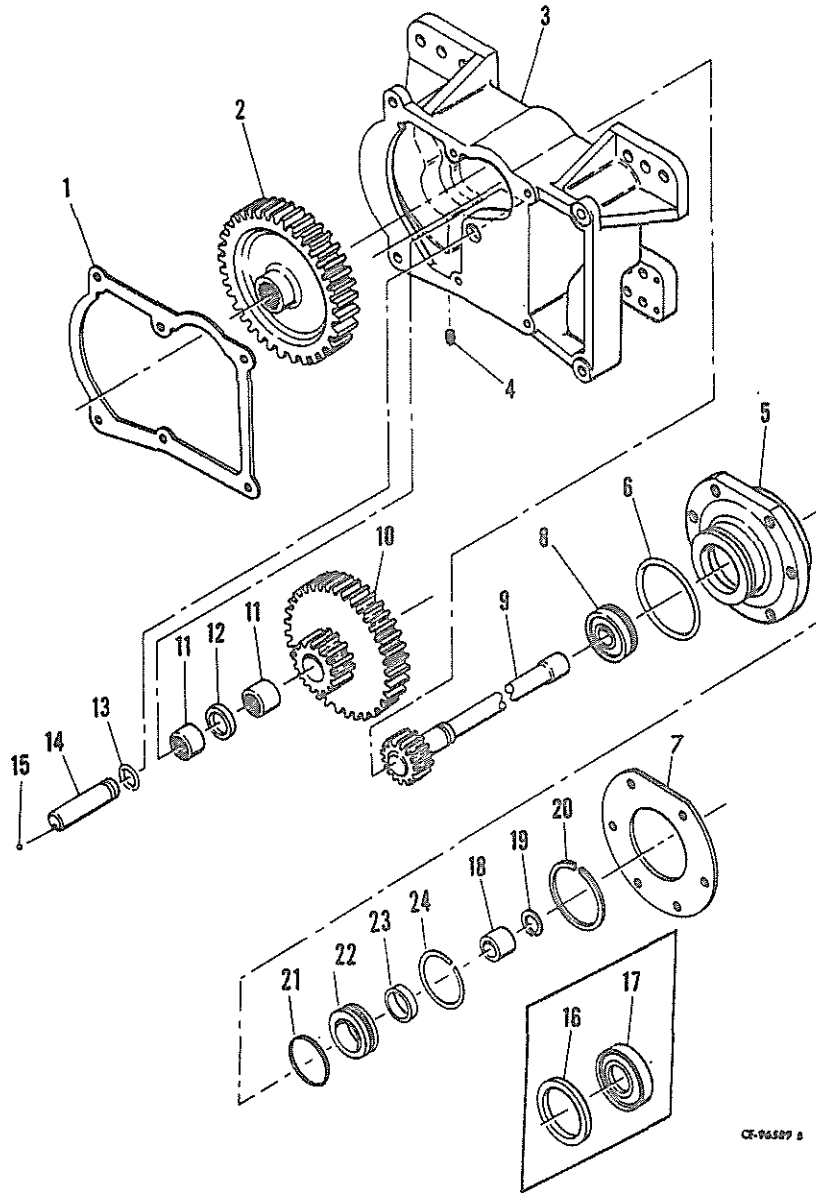
MOUNTED EQUIPMENT

MEMORANDA

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH ADAPTER



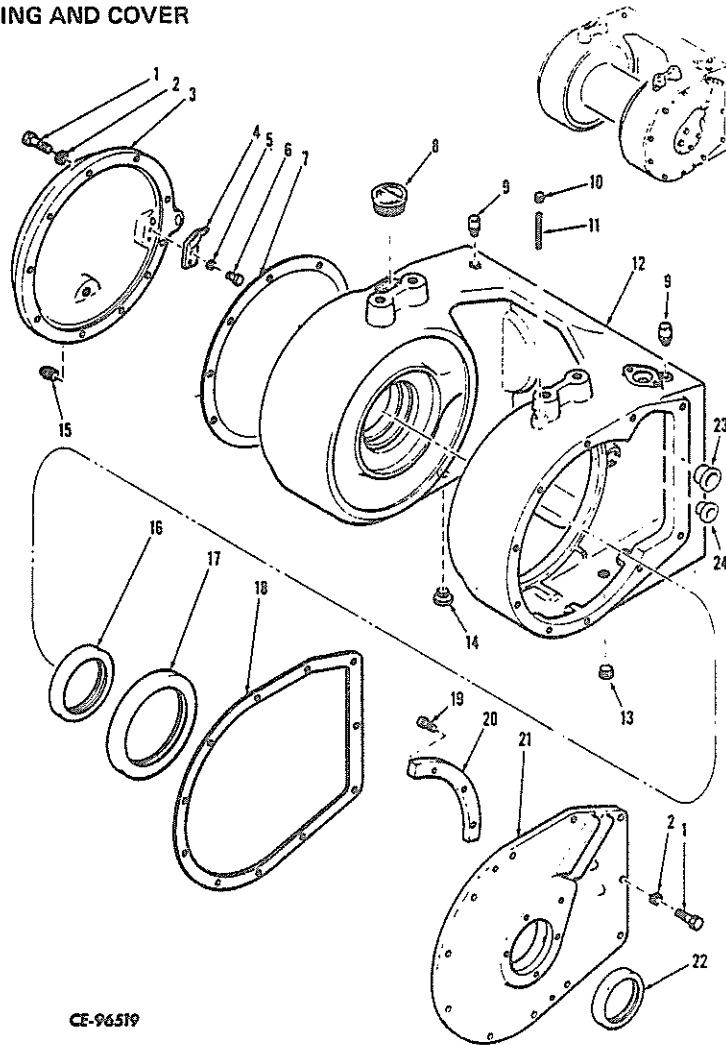
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH ADAPTER - Continued			20	267 743 C1	RING, snap
	627 273 C91	ADAPTER ASSY, winch (Composed of -	21	354 836 R1	"O" RING
1	627 379 C1	GASKET, adapter to winch	22	634 100 C1	RING, seal
2	627 378 C1	GEAR, pinion	23	634 101 C1	SEAL, oil
3	627 380 C1	HOUSING, adapter	24	634 102 C1	RING, snap
	271 635	SCREW, 3/4 x 2-1/4" hex-hd cap (4)			
	271 612	SCREW, 3/4 x 2-1/2" hex-hd cap (4)			
	271 556	SCREW, 5/8" dia. hex-hd cap (6)			
	323 213 R1	SCREW, 1-1/8" dia. hex-hd cap (4)			
	20 094 R1	SCREW, 3/4 x 2-1/2" hex-hd cap (2)			
	218 404	NUT (6)			
	627 387 C1	STUD, mounting (6)			
	103 326	WASHER, 3/4" dia. lock (16)			
	120 731	WASHER, 1-1/8" dia. lock (4)			
	103 325	WASHER, 5/8" dia. lock (4)			
4	444 588	PLUG, sq. hd. (2)			
5	627 381 C1	HOUSING, bearing			
6	257 642 R1	"O" RING			
7	627 382 C1	GASKET, bearing housing			
8	ST 256	BEARING, ball			
9	627 383 C1	SHAFT, PTO			
10	627 377 C1	GEAR, cluster			
11	627 447 C91	BEARING, needle (2)			
12	627 375 C1	SPACER, bearing			
13	293 739 R1	"O" RING			
14	627 376 C1	PIN, idler			
15	17 008 R1	BALL, steel (Replaces 16 008 R1)			
16	627 386 C1	SPACER, bearing (Order the following -			
		1 "O" RING 354 836 R1			
		1 RING 634 100 C1			
		1 RING 634 102 C1			
		1 SEAL 634 101 C1)			
17	627 385 C1	SEAL, oil (Order the following -			
		1 "O" RING 354 836 R1			
		1 RING 634 100 C1			
		1 RING 634 102 C1			
		1 SEAL 634 101 C1)			
18	627 384 C1	RING, oil seal			
19	233 041 R1	RING, snap			

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH HOUSING AND COVER



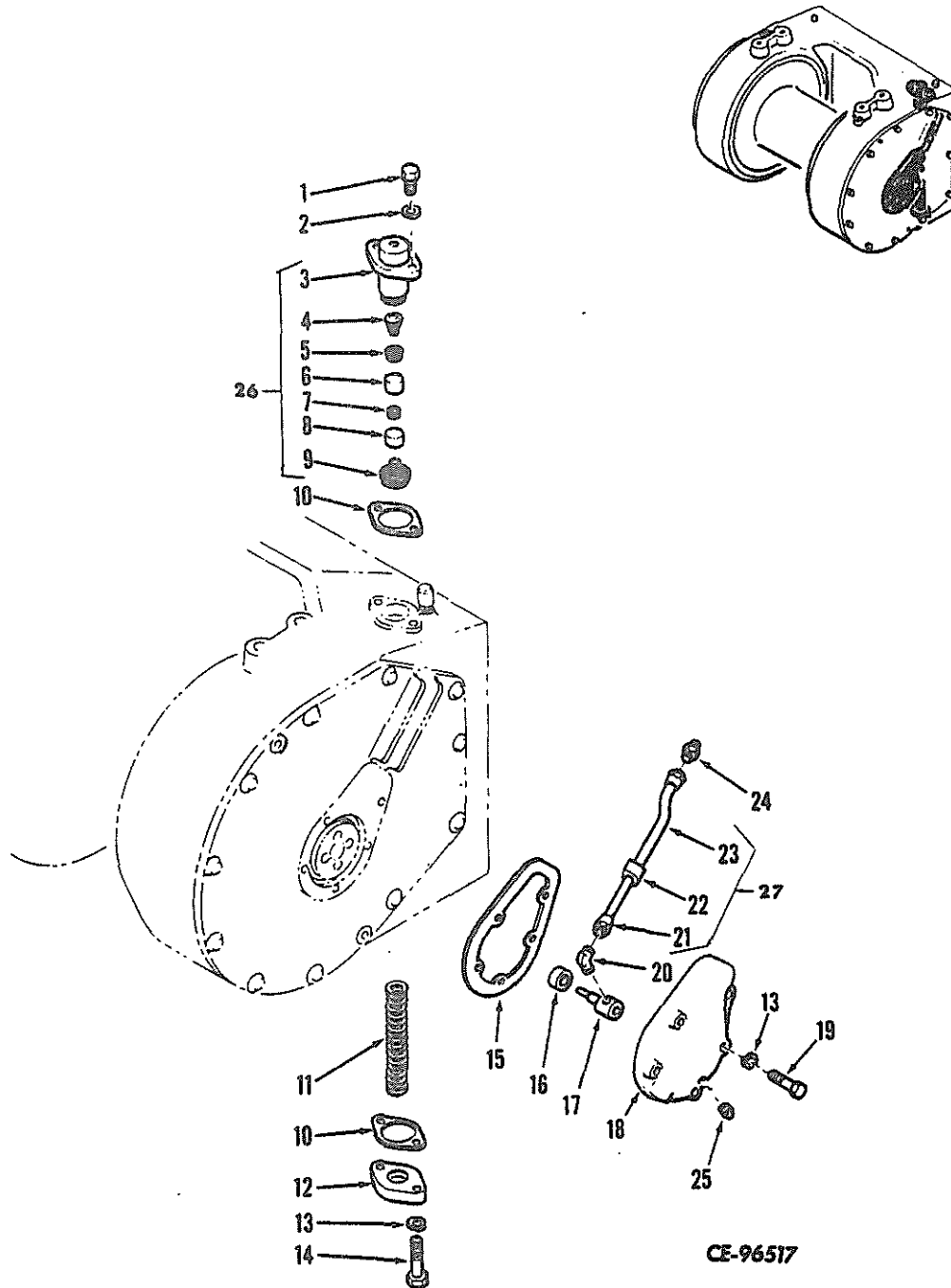
CE-96519

1	179 883	SCREW, hex-hd cap (21)	13	444 538	PLUG, pipe	
2	103 323	WASHER, lock (21)	14	202 491 H1	PLUG, barrel	
3	217 635 H1	COVER, gear	15	444 588	PLUG, pipe	
4	217 638 H1	WIPER, oil	16	217 640 H1	SEAL, oil	
5	120 214	WASHER, lock (2)	17	217 639 H1	SEAL, oil	
6	25 955 R1	SCREW, hex-hd cap (2)	(2)	18	217 653 H1	GASKET, clutch cover
7	217 629 H1	GASKET, gear cover	19	174 589 H1	BOLT, guide ring	
8	202 490 H1	PLUG, barrel	20	217 679 H1	RING, guide	
9	217 503 H1	VENT, housing (2)	21	217 654 H1	COVER, clutch	
10		SCREW, 7/16 x 7/16" hex-soc set	22	876 384 C91	SEAL, oil	
11	876 735 C1	SPRING	23	893 398 C1	PLUG, brake lever	
12	217 424 H1	HOUSING, winch	24	893 397 C1	PLUG, brake lever	

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH BRAKE CYLINDER AND HYDRAULIC TUBE



CE-96517

1	24 840 R1	SCREW, hex-hd cap (2)	5	202 476 H1	"U" CUP, brake cylinder
2	115 093	WASHER, lock (2)	6	217 506 H1	PISTON, primary
3	217 505 H1	CYLINDER, brake	7	217 458 H1	SPRING, piston
4	202 484 H1	SPRING, brake cylinder	8	202 477 H1	PISTON, brake cylinder

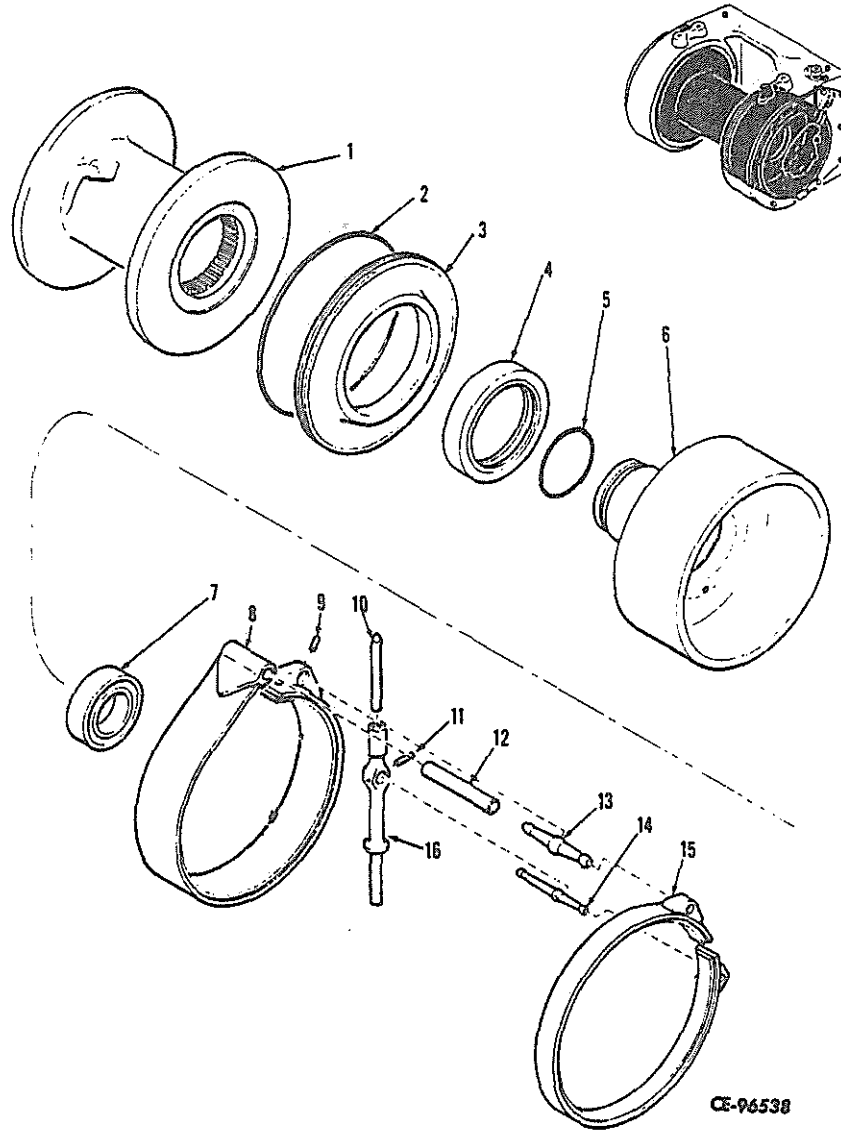
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH BRAKE CYLINDER AND HYDRAULIC TUBE - Continued					
9	202 477 H1	BOOT, brake cylinder			
10	217 504 H1	GASKET, boot (2)			
11	217 516 H1	SPRING, brake			
12	217 515 H1	CAP, spring			
13	115 314	WASHER, lock (7)			
14	217 700 H1	BOLT (2)			
15	217 655 H1	GASKET, end cap			
16	217 661 H1	BEARING, ball			
17	217 662 H1	TUBE, hydraulic			
18	217 664 H1	CAP, end			
19	24 850 R1	SCREW, hex-hd cap (5)			
20	118 753	ELBOW			
21	215 458 H1	NUT, tube (2)			
22	217 524 H1	GROMMET, tube			
23	217 706 H1	TUBE, copper (1/4" OD x 9" long)			
24	217 495 H1	ADAPTER, tube			
25	445 684	PLUG, drain			
26	875 488 C91	CYLINDER ASSY, brake			
27	217 663 H1	TUBE ASSY			
	886 015 C1	KIT, brake cylinder assy repair (Consists of the following parts -			
		1 BOOT		202 492 H1	
		\$ 1 CAPSULE		lubricating fluid	
		1 GASKET		217 504 H1	
		1 PISTON		217 506 H1	
		1 PISTON		202 477 H1	
		1 SPRING		202 484 H1	
		1 SPRING		217 458 H1	
		1 "U" CUP		202 476 H1)	

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH DRUM AND BRAKE BAND

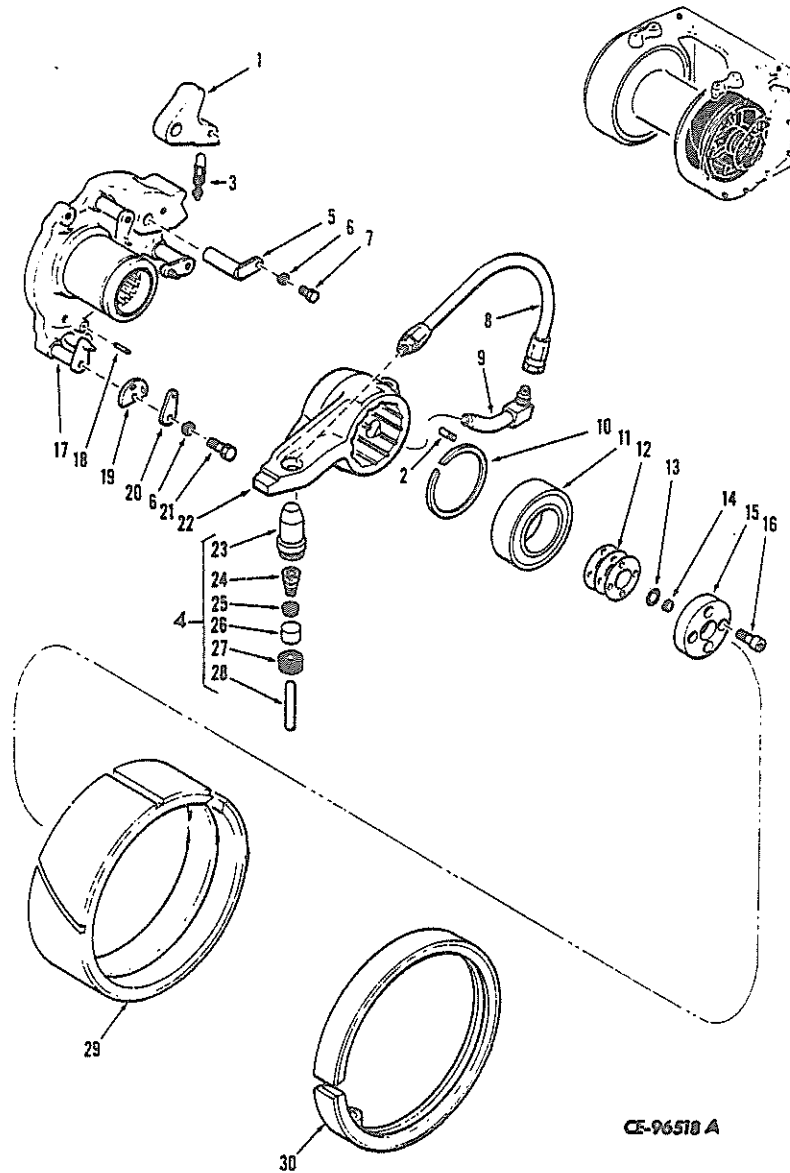


1	893 400 C1	DRUM, cable	9	217 696 H1	PIN, self-lock
2	217 650 H1	"O" RING	10	217 507 H1	ROD, push
3	217 647 H1	HOUSING, oil seal	11	217 689 H1	PIN, self-lock
4	217 646 H1	SEAL, oil	12	217 694 H1	PIN, brake anchor
5	217 643 H1	"O" RING	13	217 695 H1	LEVER, secondary brake
6	217 649 H1 103 389	DRUM, brake PIN, cotter	14	217 688 H1	LEVER, primary brake
7	217 641 H1	BEARING, ball	15	217 686 H1	BAND, primary brake
8	217 687 H1	BAND, secondary brake	16	893 399 C1	BLOCK, lever

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH CLUTCH



1	881 026 C1	ARM, lever	9	890 875 C1	FITTING, hydraulic
2		NOT USED	10	169 121 H1	RING, snap
3	560 928 C91	ROD, clutch adjusting	11	217 656 H1	BEARING, ball
4	893 395 C91	CYLINDER ASSY, clutch	12	217 658 H1	SHIM, set
5	217 666 H1	PIN, pivot	13	217 660 H1	"O" RING
6	115 093	WASHER, lock (7)	14	202 462 H1	"U" SEAL
7	24 839 R1	SCREW, hex-hd cap	15	217 659 H1	CAP, gland
8	217 693 H1	HOSE			

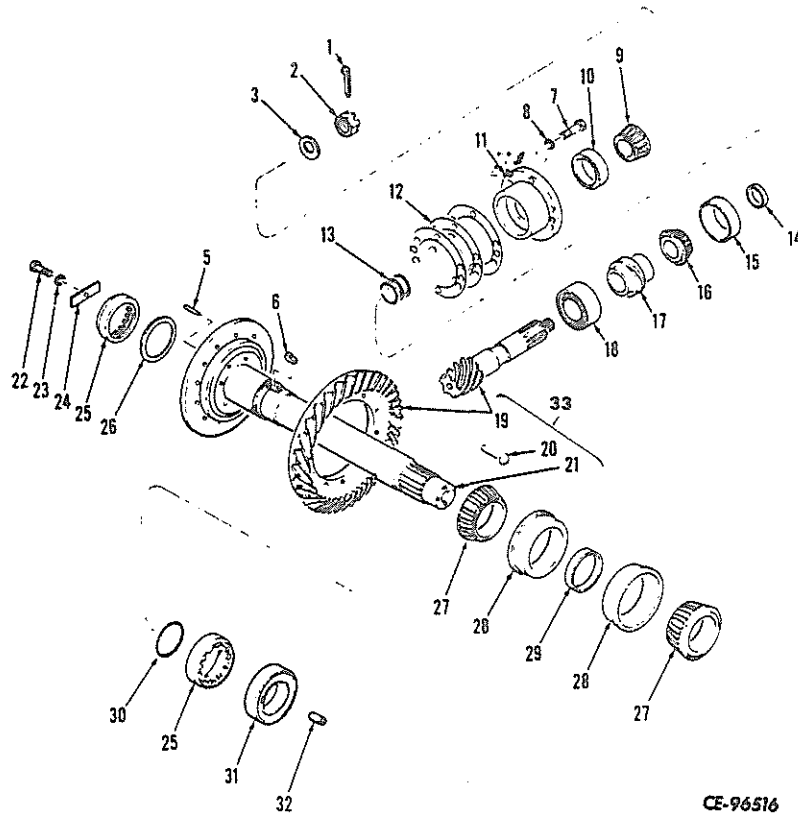
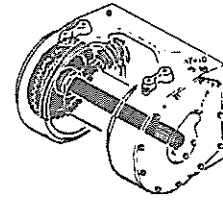
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH CLUTCH - Continued					
16		SCREW, 3/8" NF x 1-1/4" soc-hd cap (4)			
17	217 648 H2	HUB, clutch			
18	17 175 R1	PIN, self-lock (3)			
19	924 234 C1	CAM, adjusting (6)			
20	217 459 H1	PLATE, lock (6)			
21	24 840 R1	SCREW, hex-hd cap (6)			
22	881 028 C1	LEVER, clutch			
23	202 480 H1	CYLINDER, clutch			
24	202 484 H1	SPRING, clutch			
25	177 320 H1	"U" CUP			
26	202 481 H1	PISTON, clutch			
27	202 495 H1	BOOT, clutch cylinder			
28	217 692 H1	ROD, clutch push			
29	217 651 H3	BAND, secondary clutch			
30	217 652 H2	BAND, primary clutch			
	893 396 C1	KIT, clutch cylinder assy (Consists of -			
		1 BOOT	202 495 H1		
		1 PISTON	202 481 H1		
		1 SPRING	202 484 H1		
		1 "U" CUP	177 320 H1)		

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH RING GEAR AND PINION SHAFT



1		PIN, 1/8 x 2-1/4" cotter	11	217 709 H1	HOUSING, bearing
2	217 624 H1	NUT, pinion	12	217 425 H1	SET, shim
3	217 623 H1	WASHER, flat	13	217 711 H1	SET, shim
5	217 631 H1	SET, pinion adjusting (6 matched)	14	217 712 H1	SPACER, bearing
6	217 691 H1	PLATE, lock	15	ST 957	CUP, bearing
7	24 874 R1	SCREW, hex-hd cap (6)	16	49 372 H	CONE, bearing
8		WASHER, 11/16 x 1-3/4" x 10 ga. flat (6)	17	217 627 H1	SLEEVE, spacer
9	ST 954	CUP, bearing	18	495 596 R1	BEARING, roller
10	ST 2005A	CONE, bearing	19	217 703 H1	CROWN GEAR and pinion

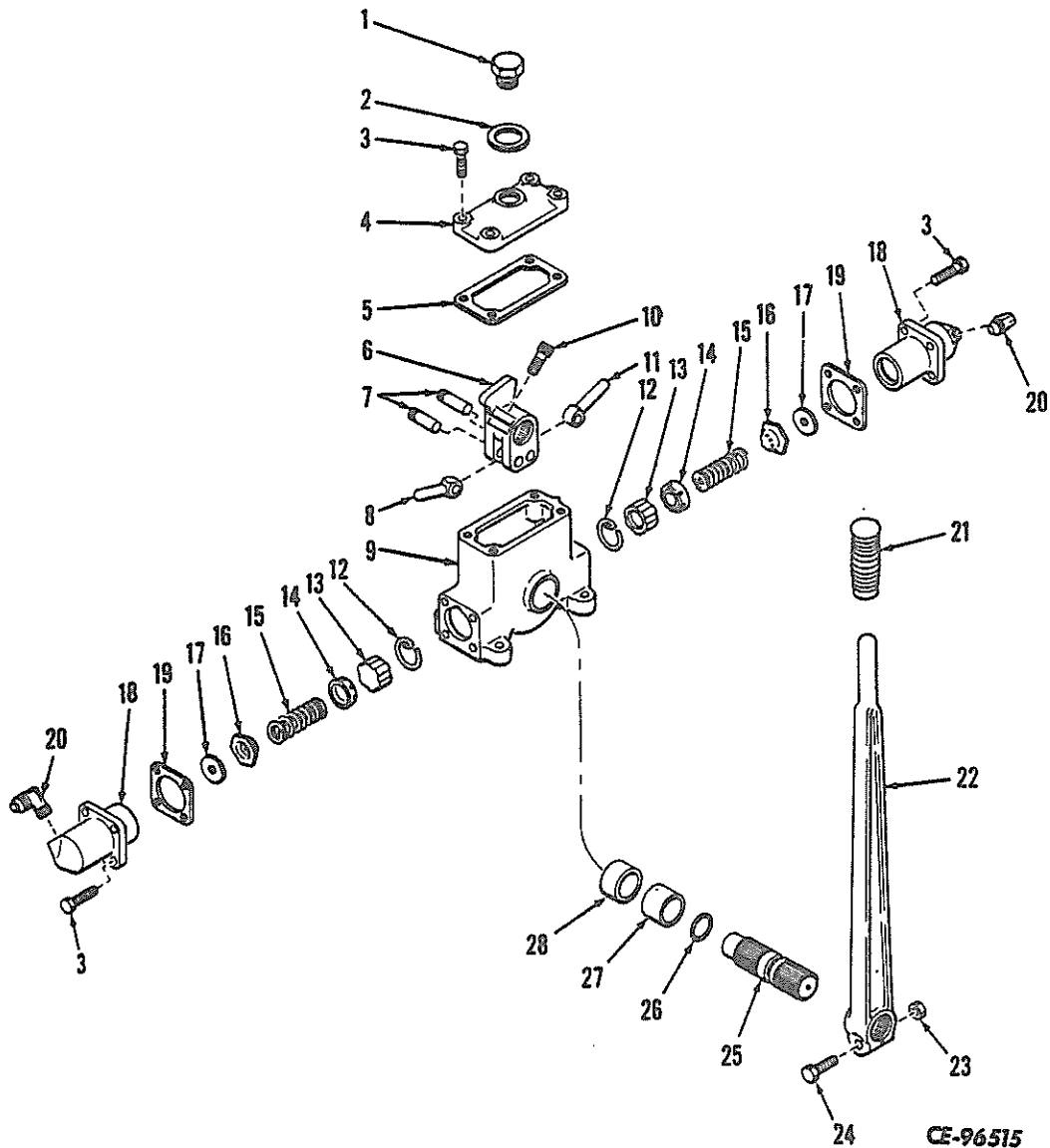
MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH RING GEAR AND PINION SHAFT -					
Continued					
20	217 704 H1	RIVET (16)			
21	217 705 H1	DRUM w/CUP, 217 522 H1, shaft			
22		SCREW, 3/8" NF x 3/4" hex-hd cap			
23	115 093	WASHER, lock			
24	217 634 H1	PLATE, lock			
25	217 633 H1	LOCK NUT (2)			
26	217 632 H1	SPACER, thrust			
27	217 708 H1	CONE, bearing (2)			
28	217 707 H1	CUP, bearing (2)			
29	217 637 H1	SPACER, bearing			
30	217 499 H1	"O" RING			
31	217 641 H1	BEARING, ball			
32	217 522 H1	CUP, retainer (Part of DRUM, 217 705 H1)			
33	217 630 H1	GEAR PINION and SHAFT ASSY			
	217 626 H1	HOUSING ASSY, bearing (Includes ref numbers 9 thru 11 and 13 thru 16)			

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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GEARMATIC WINCH MASTER CONTROL



CE-96515

	215 334 H1	CONTROL ASSY, winch master	6	202 523 H1	ARM, rocker
	25 522 R1	NUT (4)	7	202 524 H1	PIN, push rod (2)
	24 841 R1	SCREW, hex-hd cap (4)	8	892 356 C1	ROD, short push
	115 093	WASHER, lock (4) (Composed of -	9	202 482 H2	HOUSING, winch master control
1	202 516 H1	CAP, filler	10	292 518 H1	BOLT, rocker arm
2	202 461 H1	WASHER, fibre	11	892 357 C1	ROD, long push
3	25 492 R1	SCREW, hex-hd cap (12)	12	202 530 H1	RING, lock (2)
4	202 513 H1	COVER, housing			
5	202 517 H1	GASKET, cover			

MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH MASTER CONTROL - Continued					
13	202 531 H1	PISTON, cylinder (2)			
14	202 532 H1	"U" CUP (2)			
15	202 533 H1	SPRING, cylinder (2)			
16	202 528 H1	VALVE 2/WASHER, 875 429 C1, cylinder (2)			
17	875 429 C1	WASHER, rubber (2)			
18	202 534 H1	CYLINDER (2)			
19	202 529 H1	GASKET, cylinder (2)			
20	166 195 H1	ELBOW, (2)			
21	202 515 H1	GRIP, hand			
22	202 514 H1	HANDLE, control			
23		NUT, 3/8" NF lock			
24		SCREW, 3/8" NF x 1-3/4" hex-hd cap			
25	202 519 H1	SHAFT, control			
26	202 521 H1	"O" RING			
27	202 520 H1	BUSHING, housing			
28	892 377 C1	BUSHING, housing			
	875 485 C91	CYLINDER ASSY, master winch control (2) (Includes ref numbers 12 thru 18)			
	892 529 C91	HOUSING ASSY, master winch control (Includes ref numbers 9, 27 and 28)			
	886 014 C1	KIT, cylinder assy repair (Services one CYLINDER ASSY)			

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NUMERICAL INDEX

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