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MODEL 125E  
CRAWLER LOADER

FORM PC-L125E-2

APRIL, 1980  
With Partial Revision No. 1

(Supersedes Form PC-L125E-1)

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## INTRODUCTION

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

125 (Series E) Power Shift

125 (Series E) Power Shift with Backhoe

These loaders are equipped with a DT-239, four cylinder turbocharged diesel engine. For service parts information covering these engines, 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.
125E Power Shift	450	0005	U (U.S.A.)	006001
125E Power Shift w/ Backhoe	450	0006	U (U.S.A.)	006001
125E Power Shift w/ Standard Bucket	450	0007	U (U.S.A.)	006001
125E Power Shift w/ Multi-Purpose Bucket	450	0008	U (U.S.A.)	006001

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 - 6075  
Country of Origin - U006075  
Variation - 5U006075

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

## ATTACHMENTS

The following is a list of attachments available for the 125E Loader.

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Canopy		
Protective w/Seat Belt .....	Refer to Section 13	H1
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Guard, Fuel Tank Bottom .....	Refer to Section 12	G13
Horn, Warning .....	Refer to Section 8	C15
Indicator, Transmission Pressure Filter .....	Refer to Section 11	G5
Light, Electric .....	Refer to Section 8	C15
Logging Arch (Model 78) .....	Refer to Section 17	H21
Mount, Canopy .....	Refer to Section 13	H1
Multi-Purpose Bucket Plumbing .....	Refer to Section 17	H21
Ripper .....	Refer to Section 17	H21
Roof Extension .....	Refer to Section 13	H1
Screen, Rear .....	Refer to Section 13	H1
Sweeps, Canopy .....	Refer to Section 13	H1
Tooth, Additional Ripper .....	Refer to Section 17	H21
Track		
Frame Cover .....	Refer to Section 14	H8
Roller and Sprocket Shield .....	Refer to Section 14	H8
Winch, Gearmatic (No. 19) .....	Refer to Section 17	H21

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

## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>PACKAGES AND KITS</b>					
NOTE: For detail list of parts, refer to page indicated.					
<b>SECTION 2 – MISCELLANEOUS</b>					
			<u>Page</u>	<u>Grid</u>	
636 117	C91	PACKAGE, identification product graphics .....	2-5	A14	
622 805	C91	PACKAGE, instructional product graphics .....	2-5	A14	
632 764	C92	PACKAGE, forestry .....	2-7	A16	
<b>SECTION 7 – DRIVE TRAIN</b>					
655 473	C91	KIT, belleville washer service .....	7-7	B15	
625 878	C91	KIT, seal and spring .....	7-22	C5	
625 877	C91	KIT, seal and spring .....	7-27	C10	
625 879	C93	KIT, torque converter shim, seal and gasket .....	7-3	B11	
622 781	C91	PACKAGE, bevel gear bearing carrier shim .....	7-5	B13	
622 784	C91	PACKAGE, input shaft support shim .....	7-18	C2	
629 836	C91	PACKAGE, planet gear needle bearing service .....	7-4	B12	
622 782	C92	PACKAGE, sprocket carrier shaft shim .....	7-7	B15	
622 783	C91	PACKAGE, transmission case mounting shim .....	7-18	C2	
628 028	C92	PACKAGE, transmission sealing ring .....	7-18	C2	
<b>SECTION 8 – ELECTRICAL</b>					
1 959 833		PACKAGE, ground terminal .....	8-22	D13	
1 945 923		PACKAGE, brush support (For Cranking Motor) .....	8-19	D10	
1 962 629		PACKAGE, voltage regulator shock bracket .....	8-21	D12	
1 959 834		PACKAGE, terminal .....	8-22	D13	
1 959 832		PACKAGE, battery terminal .....	8-22	D13	
668 188	C1	PACKAGE, terminals .....	8-25	D16	
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628 488	C91	PACKAGE, rear bar mounting cap service .....	9-3	E3	
<b>SECTION 10 – HYDRAULICS</b>					
627 170	C1	KIT, accumulator seal service .....	10-21	F7	
625 912	C1	KIT, between sections seal (For Hydraulic Equipment Valves) .....	10-32	F18	
631 233	C91	KIT, diverter valve seal repair .....	10-33	F19	
625 914	C2	KIT, lower anti-cavitation seal (For Hydraulic Equipment Valves) .....	10-32	F18	
625 903	C1	KIT, internal section seal .....	10-28	F14	
67 055	C1	KIT, major seal repair (For Transmission and Torque Converter Pump) .....	10-7	E15	
625 903	C1	KIT, internal section seal .....	10-28,10-30,10-32	F14,F16,F18	
627 275	C1	KIT, major seal repair (For Loader Equipment Pump) .....	10-9	E17	
637 478	C91	KIT, major seal repair (For Loader Equipment Pump) .....	10-8	E16	
627 910	C2	KIT, master seal (For Two-Spool Hydraulic Equipment Valve) .....	10-32	F18	
625 911	C2	KIT, master seal (For Three-Spool Hydraulic Equipment Valve) .....	10-32	F18	
625 915	C1	KIT, master seal relief (For Hydraulic Equipment Valves) .....	10-32	F18	
625 913	C2	KIT, upper optional port seal (For Hydraulic Equipment Valves) .....	10-32	F18	
883 170	C91	KIT, seal repair .....	10-38	F24	
710 267	C91	PACKAGE, hydraulic conversion (For Two-Spool Valve) .....	10-14	E22	
710 268	C91	PACKAGE, hydraulic conversion (For Three-Spool Valve) .....	10-14	E22	
626 232	C2	PACKAGE, cylinder sealing ring .....	10-4	E12	
626 233	C2	PACKAGE, cylinder sealing ring .....	10-3	E11	
626 234	C3	PACKAGE, cylinder sealing ring .....	10-5	E13	
622 829	C91	PACKAGE, pilot control valve sealing ring service .....	10-25	F11	
622 827	C91	PACKAGE, steering cylinder sealing ring .....	10-2	E10	
622 831	C91	PACKAGE, steering control valve sealing ring service .....	10-24	F10	



## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>PACKAGES AND KITS - Continued</b>					
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			<u>Page</u>		<u>Grid</u>
606 252 C91		PACKAGE, idler oil seal field service .....	14-5		H12
606 627 C91		PACKAGE, reunitization band field service (For Track Idler) .....	14-5		H12
606 628 C91		PACKAGE, reunitization band field service (For Track Roller) .....	14-4		H11
622 825 C91		PACKAGE, track adjuster seal .....	14-4		H11
606 133 C91		PACKAGE, oil seal field service .....	14-4		H11
<b>SECTION 17 - MOUNTED EQUIPMENT</b>					
886 015 C1		KIT, brake cylinder repair (For Gearmatic Winch Brake Cylinder) .....	17-19		I 15
893 396 C1		KIT, clutch cylinder repair (For Gearmatic Winch Clutch Cylinder) .....	17-23		I 18
886 014 C1		KIT, master winch control repair .....	17-27		I 22

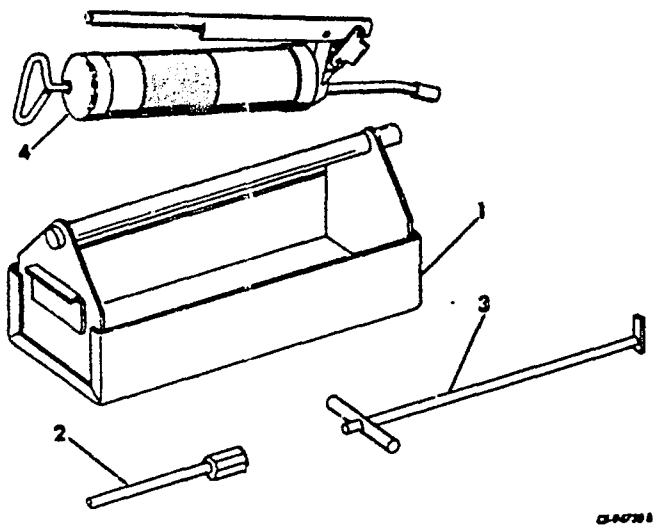
## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>PRODUCT GRAPHICS</b>					\$ 1 PRODUCT GRAPHIC, ripper control
					\$ 1 PRODUCT GRAPHIC, safety bar
					\$ 1 PRODUCT GRAPHIC, safety lock
636 117 C91		PACKAGE, identification product graphics (Consists of -			
		\$ 2 PRODUCT GRAPHIC, "International" (on hood)	622 808 C1		PRODUCT GRAPHIC, backhoe diverter control (For backhoe models)
		\$ 1 PRODUCT GRAPHIC, "International" (on instrument panel)	622 750 C1		NAMEPLATE, start switch
		\$ 1 PRODUCT GRAPHIC, "International" (on radiator guard)	622 751 C1		NAMEPLATE, ether injection
		\$ 1 PRODUCT GRAPHIC, "IH" monogram (on fuel tank)	715 896 C1		PRODUCT GRAPHIC, pressure filter indicator (Part of ATTACHMENT, 636 807 C91 and ATTACHMENT, 679 042 C91)
		\$ 1 PRODUCT GRAPHIC, "IH" monogram (on instrument panel)			
		\$ 2 PRODUCT GRAPHIC, "125E" model symbol	653 169 C2		PRODUCT GRAPHIC, clam opening indicator (Part of Multi-Purpose Bucket ATTACHMENT, 626 064 C92)
		\$ 1 PRODUCT GRAPHIC, "Power Shift"			
622 805 C91		PACKAGE, instructional product graphics (Consists of -			
		\$ 1 NAMEPLATE, ether injector	626 514 C1		PRODUCT GRAPHIC, tilt cylinder instruction (Part of Multi-Purpose Bucket ATTACHMENT, 626 064 C92)
		\$ 1 NAMEPLATE, start switch			
		\$ 1 PRODUCT GRAPHIC, air cleaner instruction	1 124 918		PRODUCT GRAPHIC, general caution
		\$ 1 PRODUCT GRAPHIC, alternator instruction			
		\$ 1 PRODUCT GRAPHIC, angle control			
		\$ 1 PRODUCT GRAPHIC, backhoe mounting warning			
		\$ 1 PRODUCT GRAPHIC, "Be Careful" operator's safety			
		\$ 1 PRODUCT GRAPHIC, clam control			
		\$ 1 PRODUCT GRAPHIC, "Cold Start Position"			
		\$ 1 PRODUCT GRAPHIC, diesel			
		\$ 1 PRODUCT GRAPHIC, diverter angle and ripper control			
		\$ 1 PRODUCT GRAPHIC, diverter clam and ripper control			
		\$ 1 PRODUCT GRAPHIC, diverter control			
		\$ 1 PRODUCT GRAPHIC, dozer control			
		\$ 1 PRODUCT GRAPHIC, dozer control w/tilt			
		\$ 1 PRODUCT GRAPHIC, ether start warning (diesel)			
		\$ 1 PRODUCT GRAPHIC, engine fan position for backhoe			
		\$ 1 PRODUCT GRAPHIC, "Hydraulic Oil"			
		\$ 1 PRODUCT GRAPHIC, IPTO "On-Off"			
		\$ 1 PRODUCT GRAPHIC, master switch "On-Off"			
		\$ 1 PRODUCT GRAPHIC, "Made in U.S.A."			

## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### TOOLS AND TOOL BOX



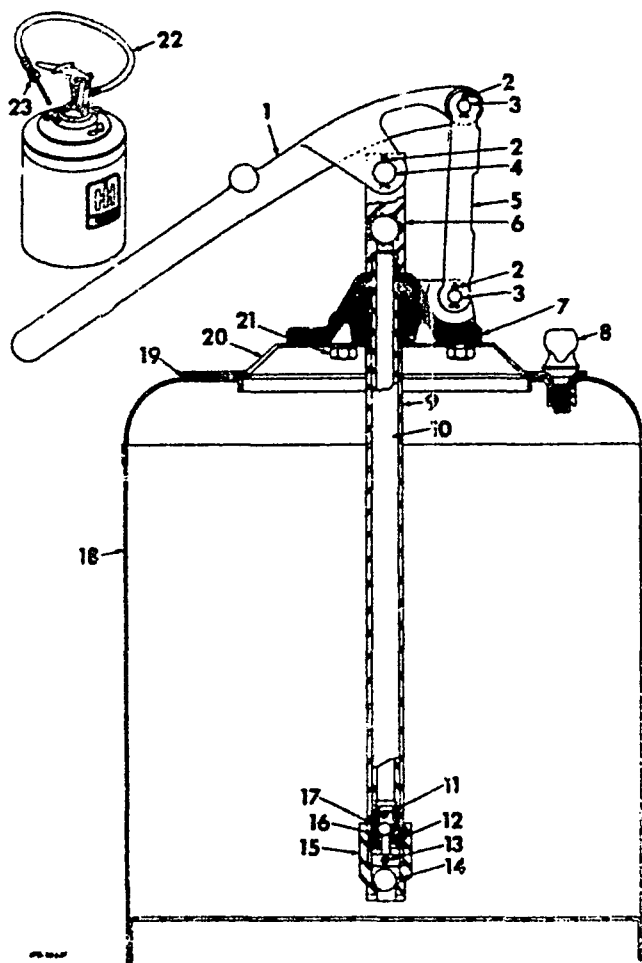
G-6781

- |   |             |   |
|---|-------------|---|
| 1 | 621 577 C1  | BOX, tool   |
| 2 | 310 944 R91 | NOZZLE, track roller lubricator   |
| 3 | 645 240 C1  | TOOL, fan reversing (For backhoe models) (Part of ATTACHMENT, 710 271 C91)          |
| 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)                         |
|   | 999 677 R91 | ATTACHMENT, lubricator hand type (Consists of LUBRICATOR, 999 677 R91) (See NOTE 3) |
|   | 543 965 R92 | ATTACHMENT, stabilizer check valve (Consists of VALVE, 543 965 R92) (See NOTE 3)    |

## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### LUBRICATOR (Tank Type)

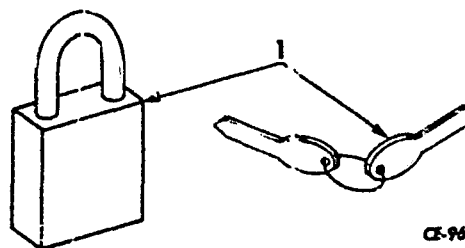


11	53 200 D	PIN, piston
12	53 203 D	PACKING, piston
13	53 201 D	PIN, foot valve
14	17 014 R1	BALL, check (Replaces 16 014 R1)
15	53 199 D	BODY, foot valve
16	53 198 D	PISTON, plunger
17	39 659 D	BALL, pump check
18	53 209 D	CONTAINER w/GASKET, 278 919 R1 and three SCREW, 179 790
19	278 919 R1	GASKET, 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

### 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	55 478 D	SCREW, container cover (3)
9	53 206 D	TUBE, pump
10	53 205 D	ROD, piston

### PADLOCK WITH KEYS



CF-96665

1	650 382 C91	PADLOCK w/KEYS
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## MISCELLANEOUS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>FORESTRY PACKAGE</b>					
632 764 C92		PACKAGE, forestry (Machine must be equipped with R.O.P.S.) (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		635 378 C91	
	1	ATTACHMENT, heavy duty radiator door		706 089 C91	
	1	ATTACHMENT, fuel tank bottom guard		706 165 C91)	

AIR

3

**NOT USED ON THIS MACHINE**

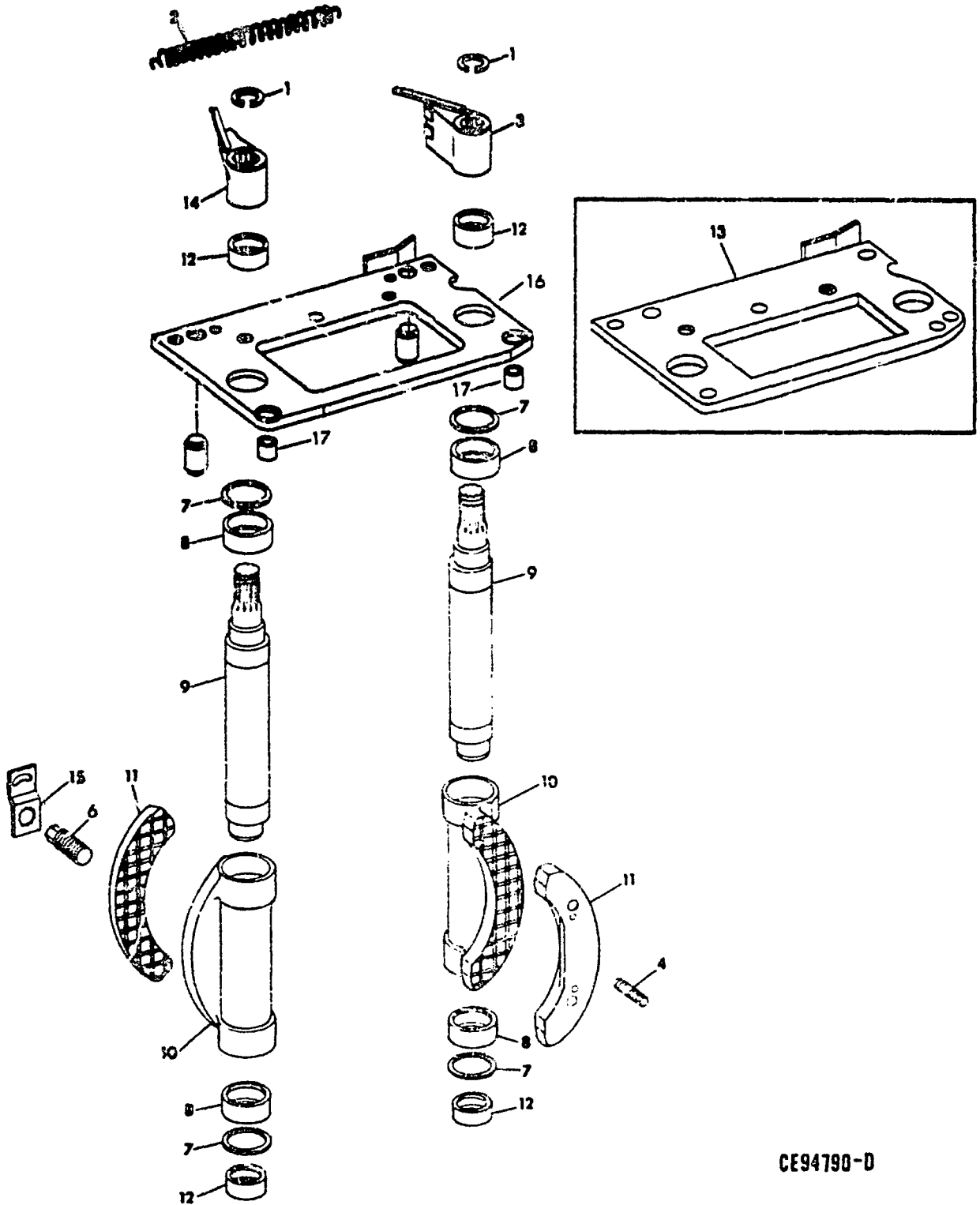
**BRAKES**

**4**

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

# BRAKES

## BRAKE SHOES AND LEVERS



CE94790-D



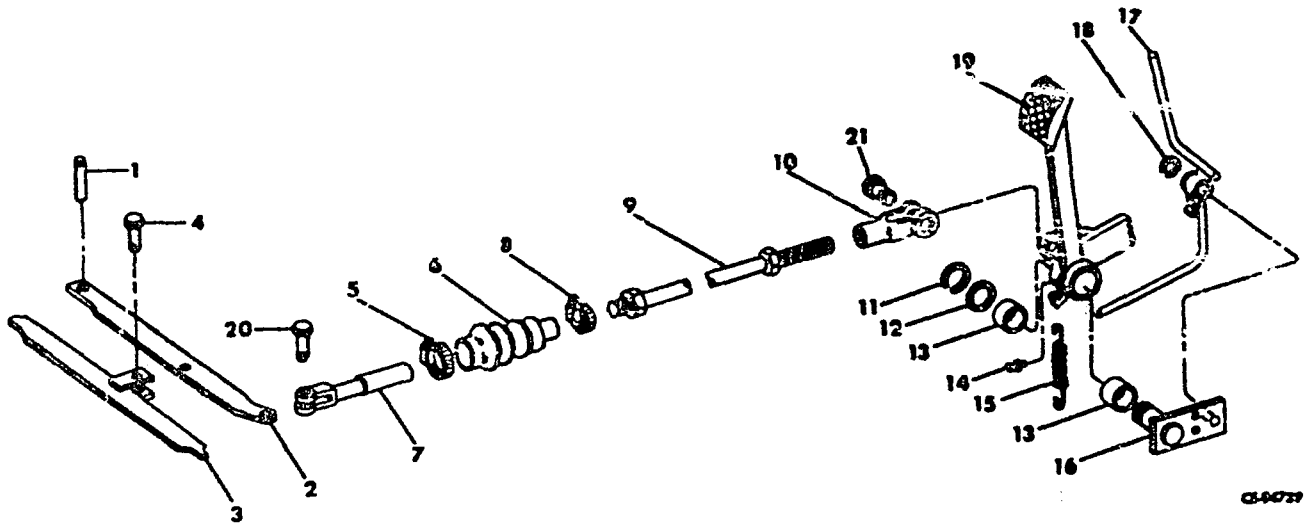
## BRAKES

REF. NO.	PART NUMBER	DESCRIPTION
<b>BRAKE SHOES AND LEVERS – Continued</b>		
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, hex 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 C91	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 24 839 R1 120 930	PLATE, lock (2) SCREW, hex-hd cap (2) 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
	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)



1	621 319 C1	PIN, brake actuator pivot	19	821 300 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	103 488 103 385	PIN, rod end PIN, cotter
4	103 498 103 385	PIN, brake actuator rod end PIN, cotter			
5	631 896 C1	CLAMP, brake boot (large)			
6	621 317 C1	BOOT, brake			
7	621 313 C1 114 496	CLEVIS, brake rod rear NUT, 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 LH) NUT, jam LH			
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 (2) WASHER, lock (2)			
17	621 350 C1 25 536	PAWL, brake lock WASHER, flat			
18	269 192 R1	RING, brake lock pawl snap (2)			



**NOT USED ON THIS MACHINE**

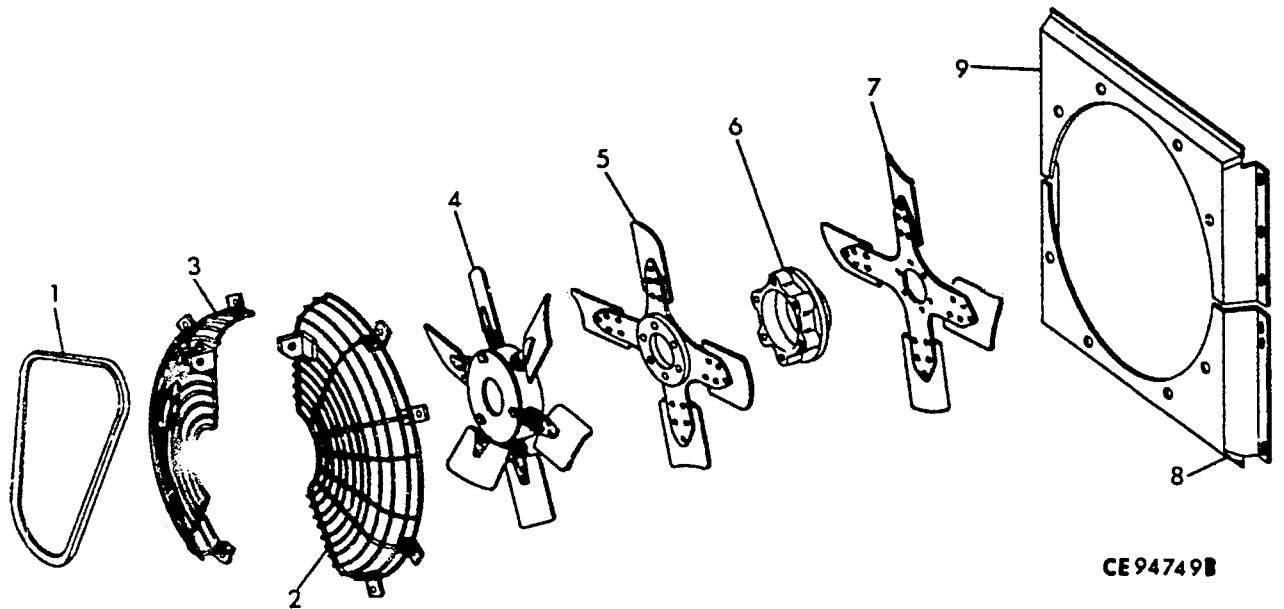
**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**

**COOLING 6**

## COOLING

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

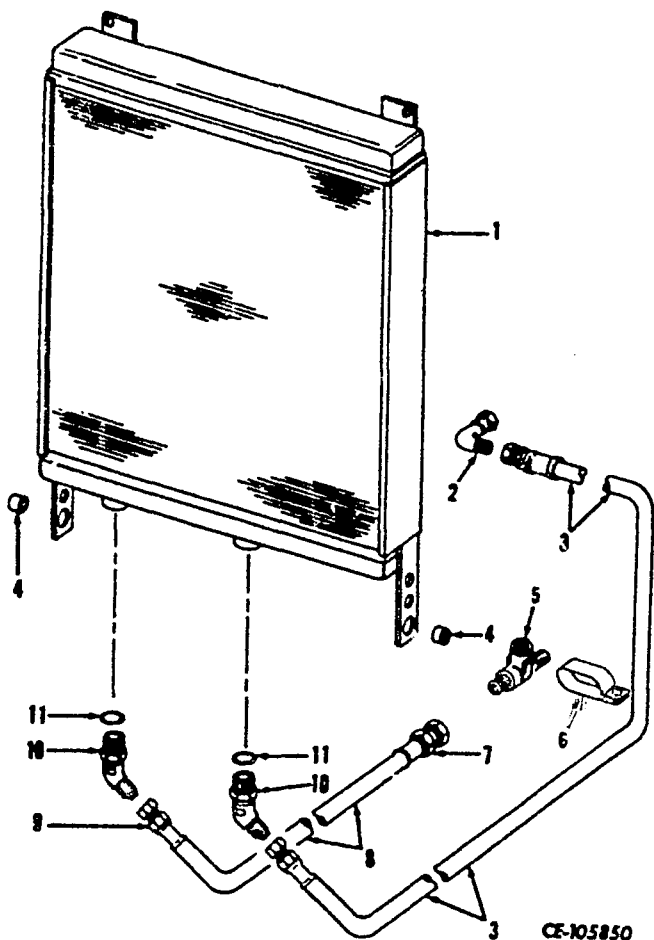


1	621 770 C1	BELT, fan, alternator and water pump	9	701 482 C1	HOUSING, upper fan (Optional w/ HOUSING, 701 483 C1) (Replaces, 619 922 C1 and 713 123 C1)
2	622 514 C1 25 522 R1 24 839 R1 115 093 103 341	GUARD, RH fan NUT SCREW, hex-hd cap (5) WASHER, lock (5) WASHER, flat (5)			SCREW, hex-hd cap (5)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

## COOLING

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



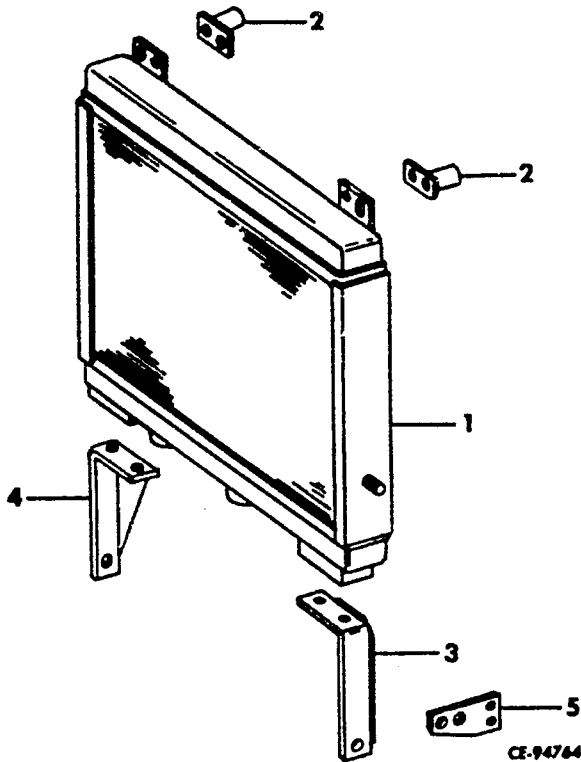
6	317 262 R1 24 839 R1 115 093 103 341	CLAMP, oil cooler hose SCREW, hex-hd cap WASHER, lock WASHER, flat
7		FITTING, female swivel hose (Order HOSE ASSY, 656 554 C2)
8	656 554 C2	HOSE w/FITTINGS, tee to oil cooler (HOSE, 5/8" ID x 26" long including FITTINGS) 6732 and below
8	713 372 C1	HOSE w/FITTINGS, torque converter to oil cooler (HOSE, 5/8" ID x 55" long including FITTINGS) 6733 and up
9		FITTING, female swivel hose (Order HOSE ASSY, 656 554 C2)
10	9 411 107	ELBOW, 45° cooler inlet and outlet (2)
11	368 269 R1	RING, cooler elbow sealing (2)
	622 749 C1 24 839 R1 115 093	BRACKET, cooler cable anchor SCREW, hex-hd cap WASHER, lock
	622 450 C1 9 413 979 103 341	CABLE, oil cooler support NUT, lock WASHER, flat (2)
	308 576 R1 525 820 R1 24 842 R1	CLAMP, oil cooler hose SPACER, oil cooler hose clamp 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 24 861 R1 116 121 103 343 25 526 R1 24 840 R1 25 544 R1	COOLER, transmission oil (Optional w/COOLER 661 182 C91) SCREW, 1/2" dia. hex-hd cap (2) WASHER, lock (2) WASHER, flat (4) NUT (2) SCREW, 3/8" dia. hex-hd cap (2) 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 6732 and below

## COOLING

REF. NO.	PART NUMBER	DESCRIPTION
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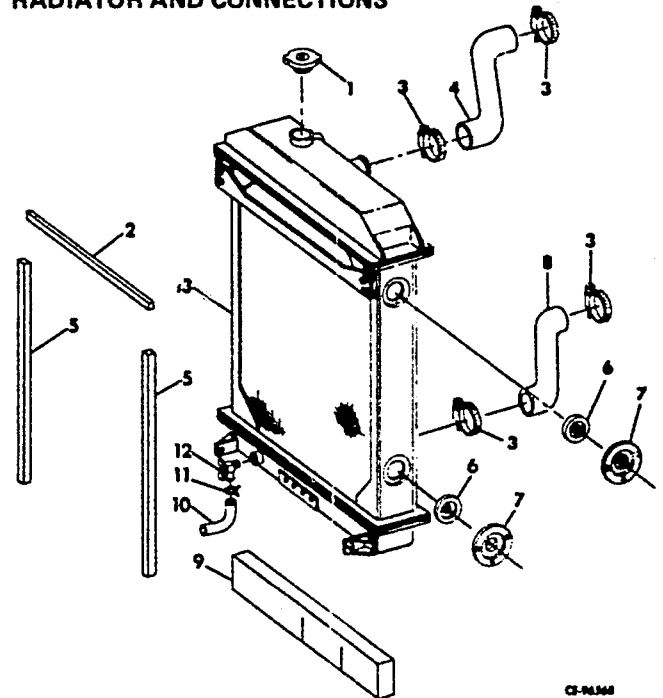
**HYDRAULIC OIL COOLER**  
(For Model 840 Hydraulic Control Unit)  
(For All Backhoe Models)



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

REF. NO.	PART NUMBER	DESCRIPTION
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**RADIATOR AND CONNECTIONS**



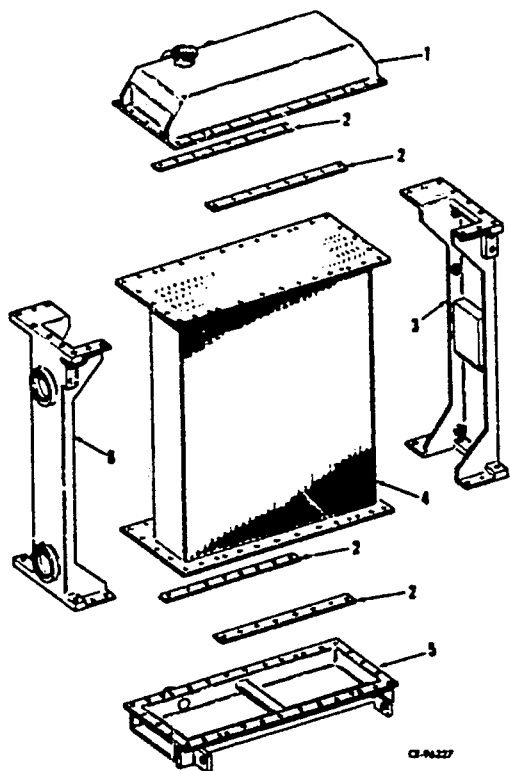
1	713 389 C2	CAP, radiator
2	622 460 C1	SEAL, radiator top air
3	279 038 R91	CLAMP, radiator inlet and outlet hose (4)
4	622 463 C2	HOSE, radiator inlet
5	622 465 C1	SEAL, radiator side air (2)
6	274 287 R2	MOUNTING, radiator rubber (4)
7	622 456 C1	BRACKET, radiator mounting (4)
	24 859 R1	SCREW, hex-hd cap (12)
	116 121	WASHER, lock (12)
8	622 404 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 (Refer to "Radiator") (%)
	140 581	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.

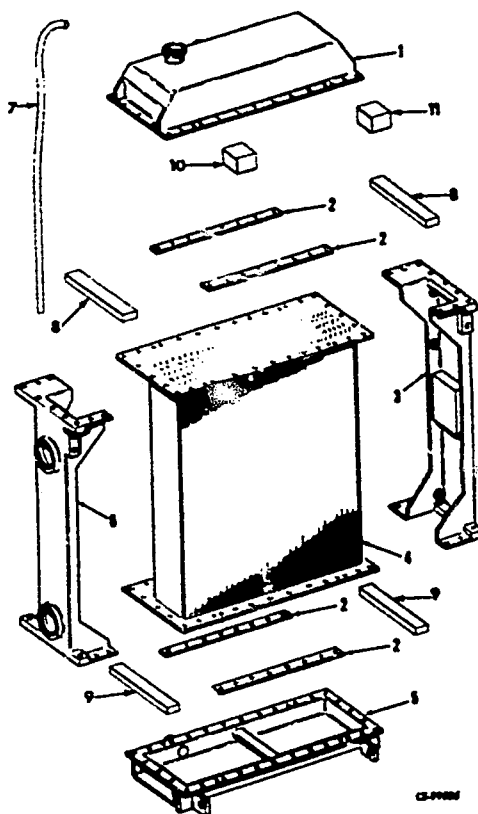
## COOLING

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### RADIATOR (Perfex) (%)



### RADIATOR (Modine) (%)



1	625 731 C1 102 634 179 818 179 817  103 320	TANK, radiator top NUT SCREW, 1" long hex-hd cap (16) SCREW, 7/8" long hex-hd cap (18) WASHER, lock (34)
2	347 844 R1	WASHER, radiator core (4)
3	625 734 C1	MEMBER, LH side
4	625 737 C1	CORE, armored radiator
5	625 735 C1 102 634 179 818 179 817  103 320	TANK, radiator bottom NUT (24) SCREW, 1" long hex-hd cap (10) SCREW, 7/8" long hex-hd cap (24) WASHER, lock (34)
6	625 733 C1  347 845 R1	MEMBER, RH side  GASKET, radiator core (order and cut as required) (4)

1	630 250 C1 25 520 R1 179 818 116 120	TANK, radiator top NUT (22) SCREW, hex-hd cap (34) WASHER, lock (34)
2	630 257 C1	BAR, tank header (4)
3	630 259 C1	MEMBER, LH side
4	630 266 C1	CORE, armored radiator
5	630 260 C1 102 634 179 818 103 320	TANK, radiator bottom NUT (22) SCREW, hex-hd cap (34) 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 (Radiator B)
11	630 254 C1	BLOCK, LH mounting (Radiator B)
	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**

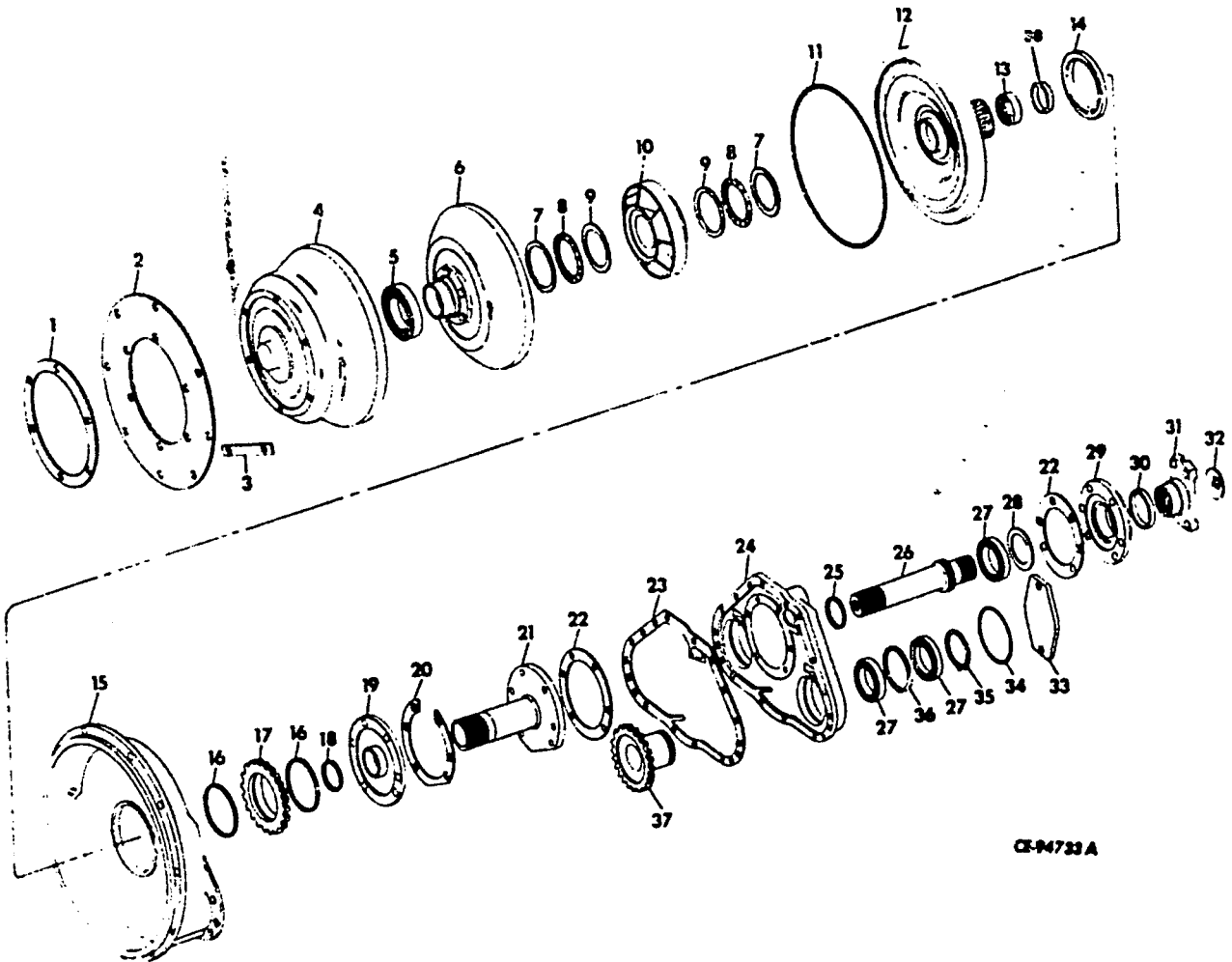
**DRIVE TRAIN**

**7**

## DRIVE TRAIN

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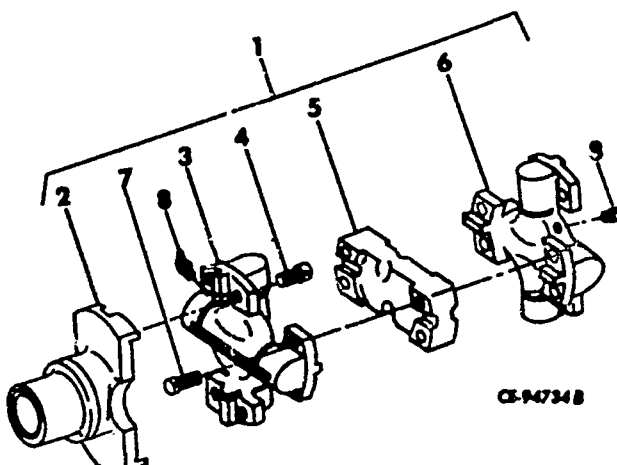
### TORQUE CONVERTER AND RELATED PARTS



CF-14733 A

	619 918 C91	CONVERTER ASSY., torque		9	619 893 C1	WASHER, thrust (2)
	26 316 R1	SCREW, 1/2" dia. hex-hd cap		10	619 980 C1	STATOR
	25 497 R1	SCREW, 3/8" dia. hex-hd cap (12)		11	627 193 C1	RING, seal
	25 F34 R1	WASHER, lock (12)		12	619 979 C91	IMPELLER w/BEARING,
	25 336	WASHER, flat (Composed of -		161 132 H1	625 885 C91	BOLT (12)
1	619 951 C1	RING, clamp		13	625 885 C91	BEARING, impeller hub
	25 769 R1	BOLT (6)		14	619 621 C91	SEAL, oil
2	619 966 C1	DISC, flexible flywheel		15	619 968 C1	HOUSING, converter
3	619 952 C1	STRIP, clamp (4)		149 212 H1	149 212 H1	PIN, dowel (2)
4	619 963 C1	HOUSING, converter drive		16	202 451 H1	RING, output shaft external snap (2)
5	606 265 C91	BEARING, turbine hub		17	619 954 C1	GEAR, accessory drive
6	619 975 C91	TURBINE		18	625 062 C1	RING, output shaft piston hook type seal
7	374 041 R1	WASHER, thrust (2)				
8	625 060 C91	BEARING, thrust (2)				

## DRIVE TRAIN

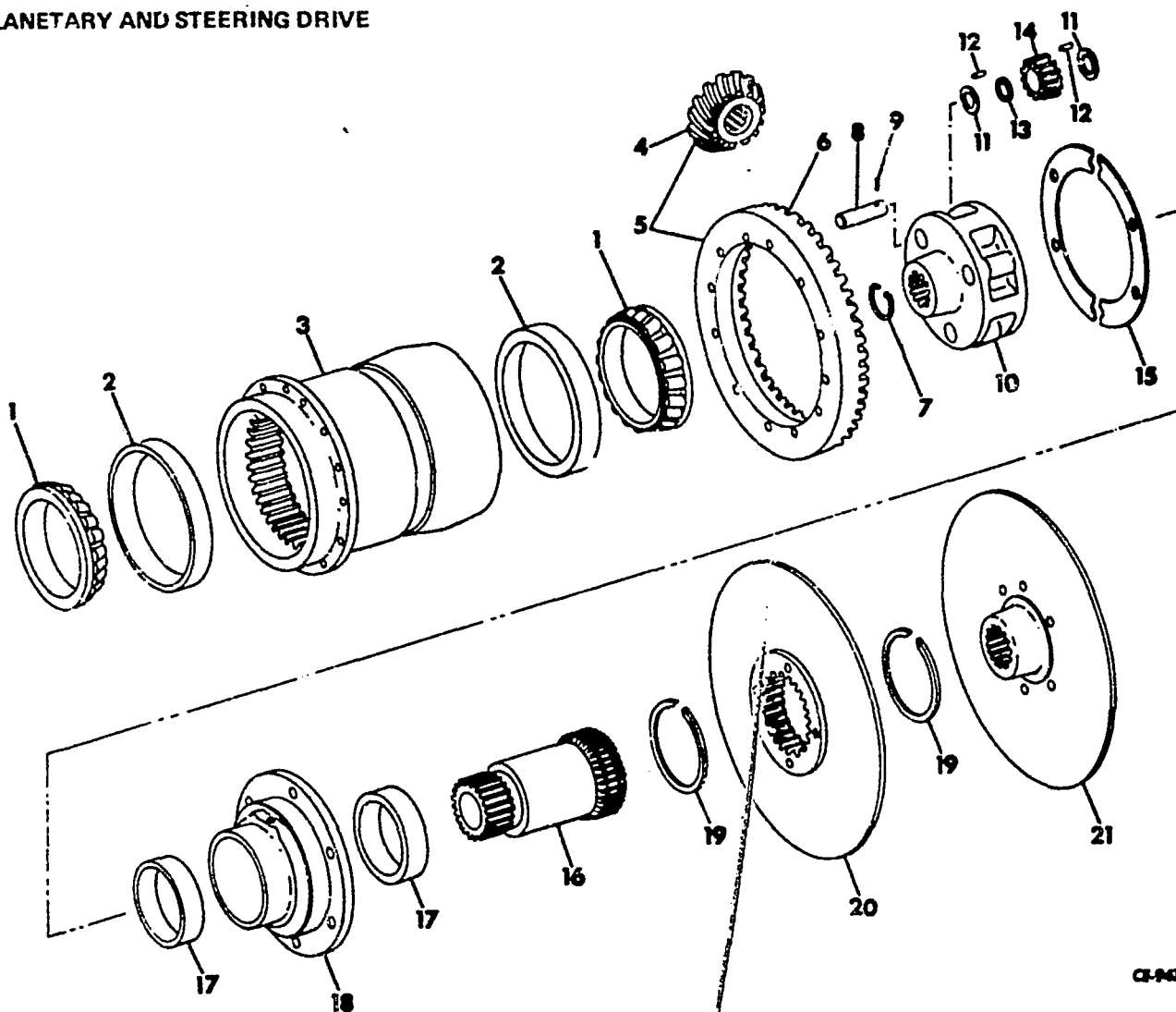
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TORQUE CONVERTER AND RELATED PARTS - Continued</b>			625 879 C93	KIT, torque converter shim, seal, and gasket (Consists of -	
19	619 958 C1	BLOCK, retainer		2 GASKET	619 958 C1
20	619 957 C1	GASKET, ground sleeve		1 GASKET	619 957 C1
21	619 964 C1	HUB, ground sleeve (30T)		1 GASKET	619 965 C1
22	619 956 C1	GASKET, output shaft bearing retainer (2)		2 RING	202 451 H1
23	619 965 C1	GASKET, power take-off cover		1 RING	619 972 C1
24	619 967 C1	COVER, power take-off		1 RING	625 062 C1
	101 896 R1	SCREW, hex-hd cap (15)		1 RING	627 193 C1
	123 920	WASHER, heavy lock (15)		1 SEAL	619 821 C91
				1 SEAL	619 982 C91
				\$ 2 SHIM (.005")	
				\$ 2 SHIM (.010")	
				\$ 1 SHIM (.020")	
				\$ 1 SLEEVE	
25	619 972 C1	RING, ground sleeve hub seal	<hr/>		
26	619 959 C1	SHAFT, turbine output	<b>UNIVERSAL JOINT</b>		
27	ST - 205A	BEARING, output shaft ball (5)			
28		SHIM, output shaft bearing (Order KIT, 625 879 C93)			
29	619 961 C1	RETAINER, output shaft bearing			
	21 318 R1	SCREW, hex-hd cap (6)			
	273 062 R1	WASHER, seal (6)			
30	619 982 C91	OIL SEAL, output shaft bearing			
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	468 335 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)			

1	619 919 C92	"U" JOINT ASSY.
	28 207 R1	SCREW, hex-soc-hd cap (4)
2	625 806 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/BEARINGS
7	28 208 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



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) (8)
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, hex-hd cap (12)	9	20 258 R1	PIN, planet gear shaft roll (Used w/SHAFT, 629 837 C2) (8)
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) (8)
5	622 476 C91	GEAR, 621 054 C1 and GEAR, 622 333 C1, drive bevel (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)

CI-9478

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION
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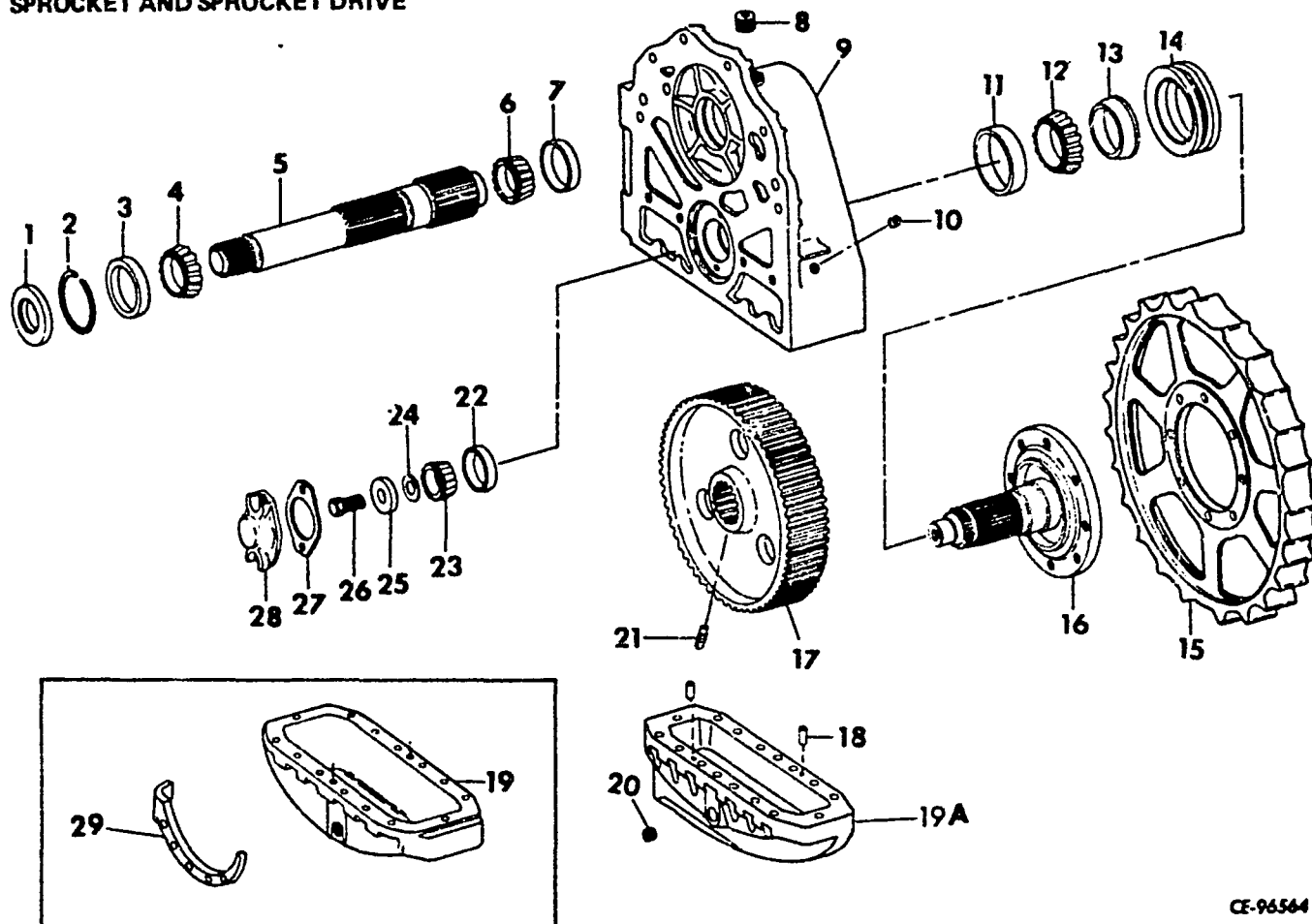
**PLANETARY AND STEERING DRIVE - Continued**

13	629 838 C1	SPACER, planet gear needle bearing (6)
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 (.007") (Order PACKAGE, 622 781 C91) (16)
15		SHIM-half, bevel gear bearing carrier (.020") (Order PACKAGE, 622 781 C91) (32)
16	621 058 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, hex-hd cap (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 service 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

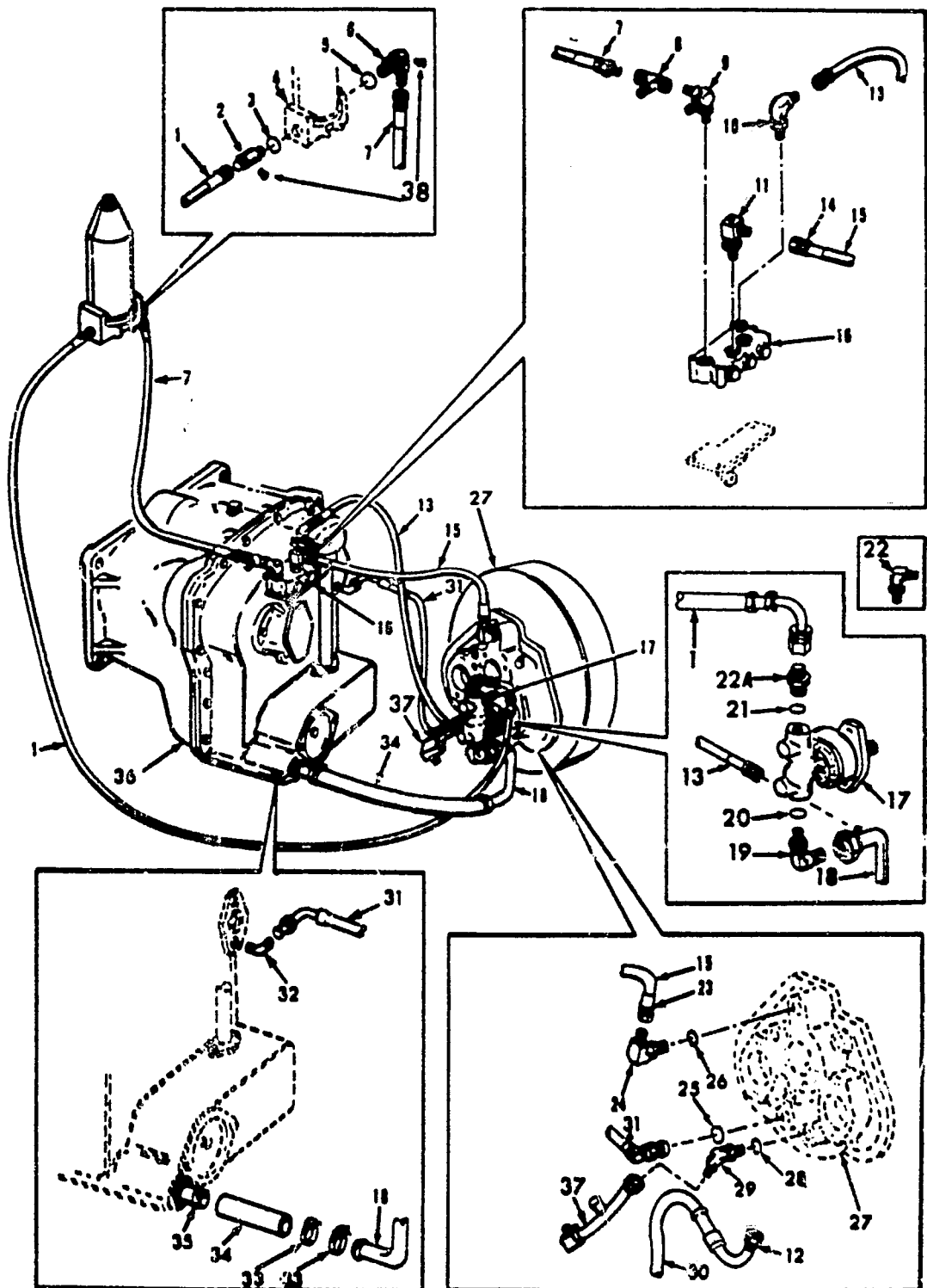
1	621 129 C92	SEAL, pinion shaft oil (2)	8	601 244 C1	PLUG, pipe (Used w/housing w/cored tapped hole) (2)
2	621 127 C1	RING, pinion shaft inner bearing snap (.109" thick) (2)	9	629 834 C91	HOUSING w/CORK, 104 939 two PIN, 367 478 R1, and PLUG, 270 835 R1, LH sprocket drive
2	621 128 C1	RING, pinion shaft inner bearing snap (Use as required in place of 621 127 C1) (.101" thick) (2)	9	629 835 C91	HOUSING w/CORK, 104 939 two PIN, 367 478 R1, 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
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 (10)
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	622 338 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
<b>SPROCKET AND SPROCKET DRIVE - Continued</b>			28	621 104 C1 70 427 R1 115 314	COVER, sprocket carrier shaft (2) SCREW, hex-hd cap (4) WASHER, lock (4)
14	716 720 C91	SEAL w/two WIPERS and Installation Instructions, sprocket carrier (2)	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	655 473 C91	KIT, belleville washer service (Consists of two WASHER, two WIPER and Installation Instructions) (x)		24 862 R1 116 121	SCREW, hex-hd cap (5) WASHER, lock (5)
15	621 136 C1 25 356 R1 25 538 R1	SPROCKET (2) SCREW, hex-hd cap (24) WASHER, flat (24)	29	654 433 C1	GUARD, RH sprocket drive (Part of ATTACHMENT, 632 730 C91 and 628 080 C91) (Used w/COVER, 705 327 C1)
16	622 244 C2	SHAFT, sprocket carrier (2)		24 862 R1 116 121	SCREW, hex-hd cap (5) WASHER, lock (5)
17	621 116 C2	GEAR, sprocket drive (2)		628 080 C91	ATTACHMENT, sprocket drive guard (For use w/14" maximum TRACK SHOES) (See NOTE 3)
18	367 478 R1	PIN, dowel (4)			(Consists of the following parts - 1 GUARD 654 432 C1 1 GUARD 654 433 C1)
19	705 326 C1	COVER, LH sprocket drive housing (Part of ATTACHMENT, 632 730 C91) (Order COVER, 716 900 C1)			
19	705 327 C1	COVER, RH sprocket drive housing (Part of ATTACHMENT, 632 730 C91) (Order COVER, 716 900 C1)	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)
	24 862 R1 116 121	BOLT (14) WASHER (14)			
19A	716 900 C1 24 862 R1 116 121	COVER, LH sprocket drive housing BOLT (14) WASHER (14)	632 730 C91		ATTACHMENT, sprocket drive cover (For use w/14" maximum track shoes) (See NOTE 3)
					(Consists of - 22 BOLT 24 862 R1 1 COVER 705 326 C1 1 COVER 705 327 C1 1 GUARD 654 432 C1 1 GUARD 654 433 C1 22 WASHER 116 121 )
20	270 835 R1	PLUG, housing drain (2)			
21	621 110 C2 454 522 R1	SCREW, sprocket drive gear retaining (2) NUT, lock (2)			
22	622 224 C1	CUP, sprocket shaft inner roller bearing (2)			
23	622 204 C91	CONE, sprocket shaft inner roller bearing (2)			
24		SHIM, sprocket carrier shaft (.005") (Order PACKAGE, 622 782 C92) (8)			
24		SHIM, sprocket carrier shaft (.007") (Order PACKAGE, 622 782 C92) (8)			
24		SHIM, sprocket carrier shaft (.020") (Order PACKAGE, 622 782 C92) (8)			
25	621 102 C1	WASHER, sprocket carrier shaft retainer (2)			
26	20 672 R1	BOLT, sprocket carrier shaft (2)			
27	621 103 C1	GASKET, sprocket carrier shaft cover (2)			

# DRIVE TRAIN

## TRANSMISSION AND TORQUE CONVERTER PIPING



CE106840C



## DRIVE TRAIN

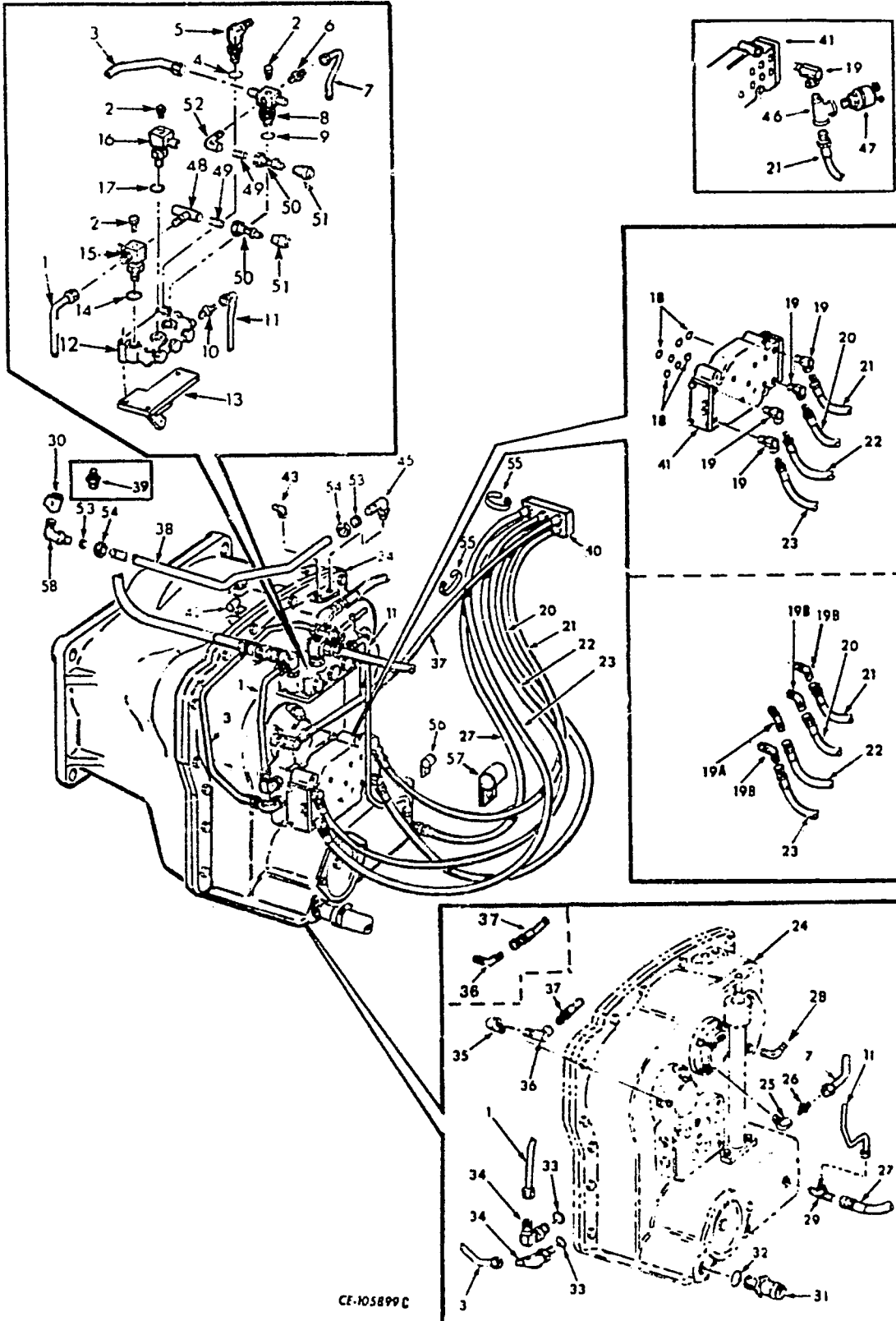
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION AND TORQUE CONVERTER PIPING - Continued</b>			15	656 555 C1	HOSE w/FITTINGS, regulator "A" port to torque converter "IN" (HOSE, 5/3" ID x 10" long, including FITTINGS)
1	656 558 C2	HOSE w/FITTINGS, pump to pressure filter (HOSE, 1" ID x 74" long including FITTINGS) (Order HOSE, 662 217 C1, CONNECTOR, 9 410 207 and DRAWING, IZG 9737)	16		VALVE, regulator (Refer to "Regulator Valve")
1	662 217 C1	HOSE w/FITTINGS, pump to pressure filter (HOSE 1" ID x 64" long including FITTINGS)	17		PUMP, transmission hydraulic (Refer to "Transmission Pump")
2	9 410 207	CONNECTOR, pressure filter inlet (Order CONNECTOR, 715 886 C1 together w/PLUG, 444 614)	18	656 533 C1	TUBE, sump outlet to pump inlet
2	715 886 C1	CONNECTOR, pressure filter inlet (Together w/PLUG, 444 614, will work for CONNECTOR, 9 410 207)	19	9 410 982	ELBOW, transmission pump inlet
3	296 247 R1	"O" RING, filter inlet connector sealing	20	307 915 R1	"O" RING, pump inlet elbow sealing
4		FILTER, transmission pressure (Mounted inside battery box) (Refer to "Transmission Pressure Filter")	21	296 247 R1	"O" RING, pump outlet connector sealing
5	296 247 R1	"O" RING, filter outlet elbow sealing	22	9 410 981	ELBOW, transmission pump outlet (Used w/HOSE 656 558 C2)
6	150 776 C91	ELBOW, pressure filter outlet (Order ELBCW, 715 885 C1, together w/PLUG, 444 614)	22A	9 410 207	CONNECTOR, pressure filter outlet (Used w/HOSE, 662 217 C1)
6	715 885 C1	ELBOW, pressure filter outlet (Together w/PLUG, 444 614, will work for ELBOW, 150 776 C91)	23		FITTING, swivel (Order HOSE ASSY, 656 555 C1)
7	656 556 C1	HOSE w/FITTINGS, filter outlet elbow to tee on regulator valve (HOSE 3/4" ID x 44" long including fittings)	24	9 410 979	ELBOW, converter "In"
8	9 410 335	TEE, filter return on main regulator tee	25	368 269 R1	"O" RING, scavenging elbow sealing
9		TEE, regulator valve inlet (Refer to "Transmission Piping")	26	368 269 R1	"O" RING, converter "In" elbow sealing
10		ELBOW, regulator valve "out" port (Refer to "Transmission Piping")	27		TORQUE CONVERTER (Refer to "Torque Converter")
11		ELBOW, regulator valve "A" port (Outlet to torque converter) (Refer to "Transmission Piping")	28	368 269 R1	"O" RING, converter "Out" elbow sealing
12		FITTING, 90° swivel (Order HOSE ASSY, 606 433 C91)	29	9 410 979	ELBOW, converter "Out"
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)	30	606 433 C91	HOSE w/FITTINGS, torque converter to oil cooler tee (HOSE, 5/8" ID x 32" long including FITTINGS) 6732 and below
14		FITTING, 90° swivel (Order HOSE ASSY, 656 555 C1)	31	705 017 C1	HOSE w/FITTINGS, torque converter scavenging elbow to transmission drain inlet (HOSE 5/8" ID x 17" long w/FITTINGS)
			32		ELBOW, transmission cover drain inlet for torque converter scavenge (Refer to "Transmission Piping")
			33	690 062 C1	CLAMP, recoupling hose (Replaces 338 703 R91) (2)
			34	662 341 C3	HOSE, suction tube coupling (1-1/4" ID x 4.8 long)
			35		CONNECTOR, sump outlet (Refer to "Transmission Piping")
			36		TRANSMISSION (For components see list of parts under details of "Transmission")

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION AND TORQUE CONVERTER PIPING -</b>					
Continued					
37	713 371 C1	TUBE, torque converter outlet elbow 8733 and up			
38	444 614	PLUG, pressure filter inlet and outlet pipe (Not used w/Transmission Pressure Filter Indicator ATTACH- MENTS) (2)			
	308 872 R1	CLAMP, torque converter pump to pressure filter hose (On front frame)			
	25 650 R1	SCREW, hex-hd cap			
	116 121	WASHER, lock			
	308 872 R1	CLAMP, pump to pressure filter hose (on RH plate of front frame)			
	24 839 R1	BOLT, hex-hd.			
	25 544 R1	WASHER, hardened			
	120 382	WASHER, lock			
	327 273 R91	STRAP, pressure filter inlet and outlet hose support (4)			

# DRIVE TRAIN

## TRANSMISSION PIPING



CF-105899C

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION PIPING - Continued</b>			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	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)
2	444 613	PLUG, NPTF test ports (3)	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)
3	656 539 C1	TUBE, regulator valve port to manifold "L" port	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)
4	364 885 R1	"O" RING, elbow sealing	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)
5	9 410 979	ELBOW, regulator valve "Out" port	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)
6	9 402 706	CONNECTOR, regulator valve lube port tee	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)
7	656 538 C1	TUBE, regulator valve lube port to input shaft support on transmission	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)
8	658 571 C1	TEE, regulator valve lube port (Order TEE, 658 571 C2 and PLUG, 444 613) (6021 and below)	24		TRANSMISSION (Refer to "Transmission")
8	658 571 C2	TEE, regulator valve lube port (With PLUG, 444 613 will work for TEE, 658 571 C1) (6022 and up)	25	9 409 931	ELBOW, transmission input shaft support (In elbow)
9	364 885 R1	"O" RING, tee sealing	26	9 402 706	CONNECTOR, transmission input shaft support (In elbow)
10	9 402 708	CONNECTOR, regulator valve spool drain port	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)
11	656 536 C1	TUBE, regulator valve spool drain to transmission drain	28	9 402 866	ELBOW, transmission cover drain inlet for torque converter scavenge
12		VALVE, regulator (Refer to "Regulator Valve")	29	9 403 098	TEE, transmission drain port (For regulator spool and pilot valve)
13	622 299 C1 25 524 R1 115 314	SUPPORT, regulator valve NUT (2) WASHER, lock (2)	30		TEE, vent (Refer to "Rear Main Frame")
14	368 269 R1	"O" RING, tee sealing	31	325 327 R91	CONNECTOR, sump outlet
15	656 529 C1	TEE, regulator valve inlet (Main port)	32	307 915 R1	"O" RING, sump outlet connector sealing
16	656 528 C1	ELBOW, regulator valve "A" port (Outlet to torque converter)			
17	368 269 R1	"O" RING, elbow sealing			
18	350 667 R1	"O" RING, selector valve sealing (7)			
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)			
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)			

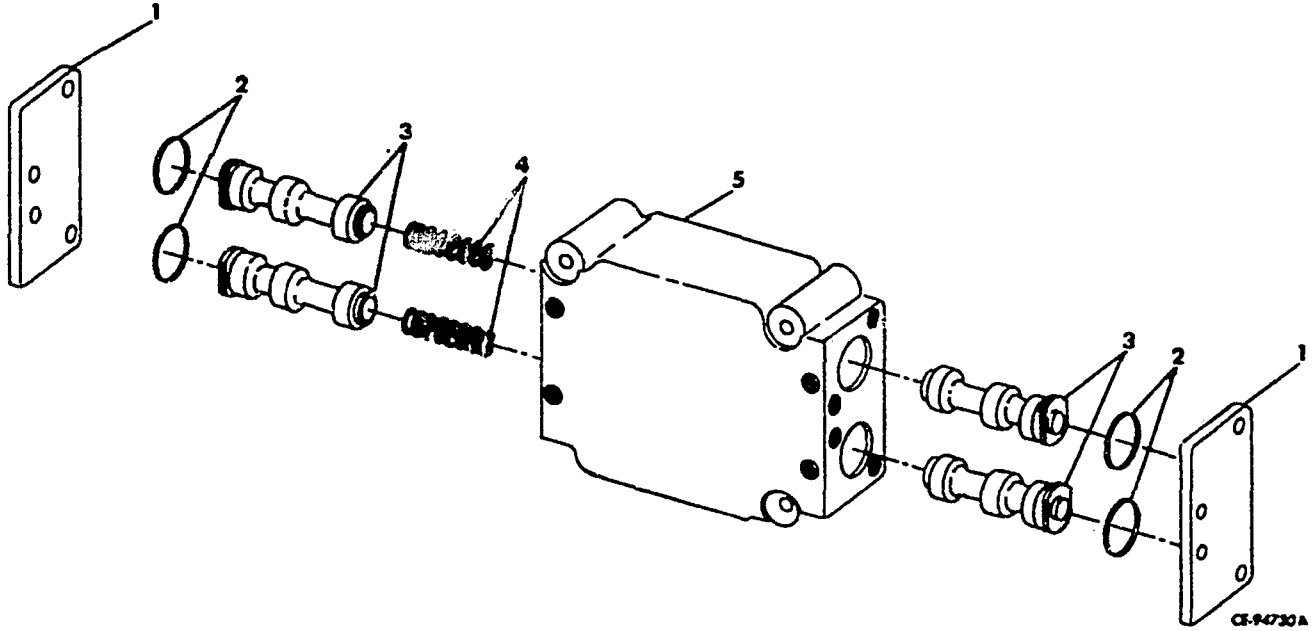
## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
TRANSMISSION PIPING - Continued			50	715 370 C1	PLUG, quick connective (2) 6022 and up
33	354 885 R1	"O" RING, elbow sealing (2)	51	715 477 C1	COVER, protective (Replaces 666 101 C1) (2) 6022 and up
34	9 410 978	ELBOW, manifold pressure and lube port (2)	52	454 108	ELBOW 6022 and up
35	585 626 R1	ELBOW, 20° manifold side port for pilot valve pressure	53	265 204 R1	SLEEVE, transmission vent tube (2)
36	307 989 R91	ELBOW, 90° swivel (Used w/HOSE, 656 579 C1 (Port M) )	54	265 205 R1	NUT, transmission vent tube (2)
36	9 402 862	ELBOW, 90° (Used w/HOSE, 733 373 C1 (Port M) )	55	327 273 R91	STRAP (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)	56	311 500 R1	CLAMP, main pilot valve hose
37	733 373 C1	HOSE w/male and female FITTINGS, pilot control valve to manifold (M) (3/16" ID x 55" long including FITTINGS)	57	317 262 R1	CLAMP, range selector hoses M, N, 3, R, and 2
38	666 369 C92	TUBE, transmission vent (Order TUBE, 710 894 C91, together with one ELBOW, 606 845 C1)	58	606 845 C1	ELBOW, transmission vent tube (Used w/TUBE, 710 894 C91)
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), transmission vent	444 613	PLUG (Used w/TEE, 658 571 C1)	6021 and below
39	606 819 C1	CONNECTOR, tube (Used w/TUBE, 666 369 C92)			
40	622 313 C1	MANIFOLD, transmission selector			
41		VALVE, range selector (Refer to "Range Selector Valve")			
42	709 154 C1	CLAMP, vent tube (On transmission cover bolt)			
43	9 402 866	ELBOW, 90° steering valve drain (In transmission cover)			
45	606 845 C1	ELBOW, transmission vent			
46	444 253	TEE, pressure switch (Part of Back-up Alarm Attachment)			
47		SWITCH, pressure (Part of Back-up Alarm Attachment)			
48	9409 942	TEE, pipe 6022 and up			
49		NIPPLE, pipe (Not Furnished Separately) (2) 6022 and up			
50	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1) (2) 6022 and up			

## DRIVE TRAIN

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

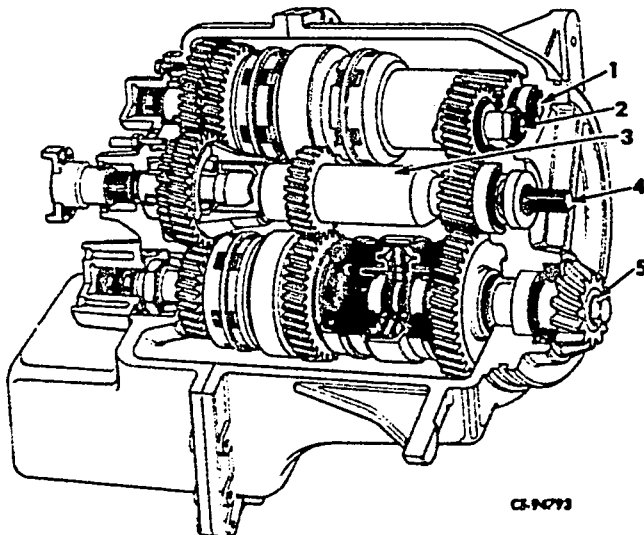


	622 307 C94	VALVE ASSY., range selector	3		SPOOL, valve (Not Furnished Separately) (4)
	24 621 R1	SCREW, hex-hd cap (3)			
	115 093	WASHER, lock (3)			
		(Consists of the following parts -	4	622 310 C3	SPRING, spool (2)
1	622 311 C1	PLATE, end (2)	5		HOUSING, valve (Not Furnished Separately)
	25 492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

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION
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### TRANSMISSION



622 334 C92	TRANSMISSION ASSY., (Composed of all parts listed on the following pages under "TRANSMISSION," except "TRANSMISSION CONTROLS")
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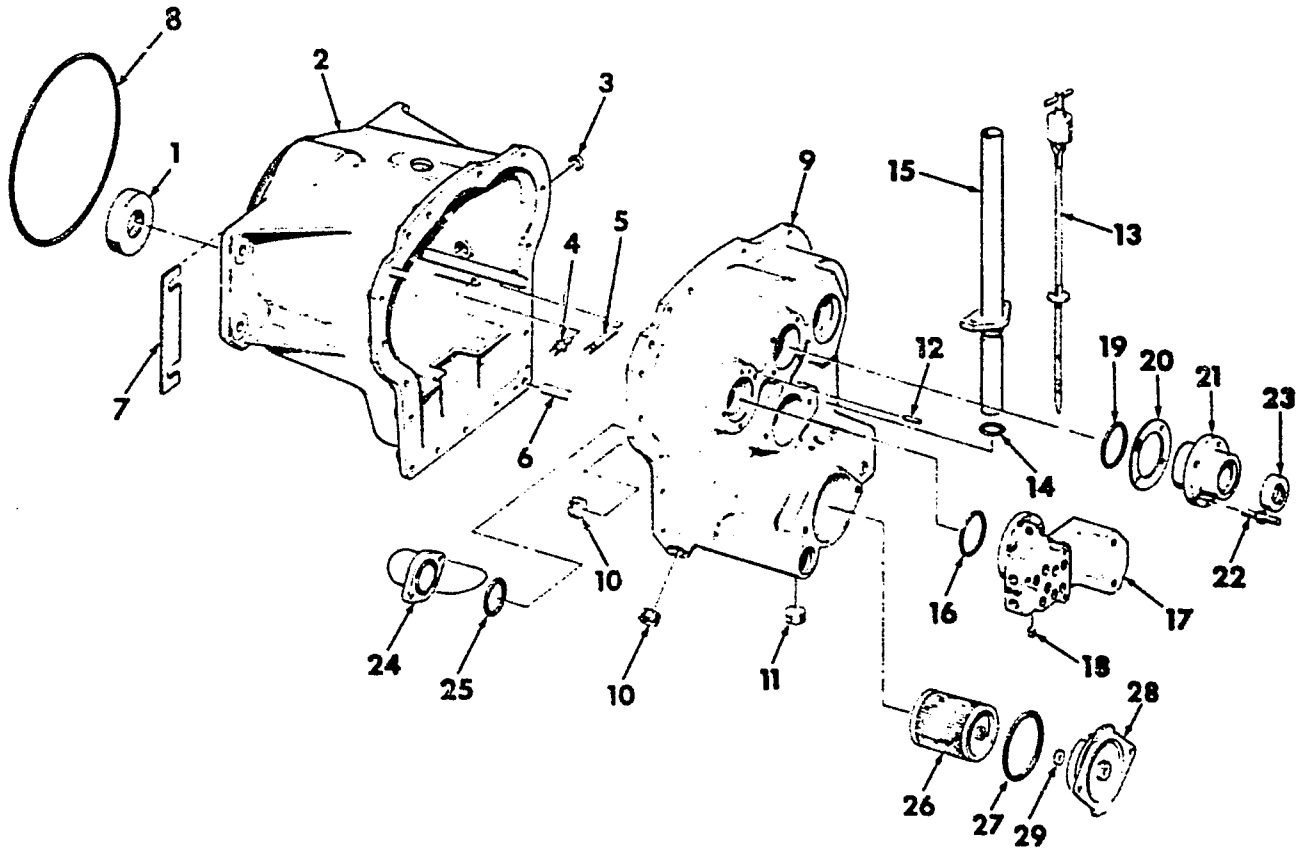
24 842 R1	SCREW, 3/8" dia. hex-hd cap (2)
24 889 R1	SCREW, 3/4" dia. hex-hd cap (4)
115 093	WASHER, lock (2)

- |   |   |
|---|---|
| 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 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, 1-1/2" long hex-hd cap (17)
3	318 300 R1	PLUG, 1" cup	115 314		WASHER, lock (18)
4	621 163 C1	PIN, pivot	575 457 R1		SCREW, 3" long hex-hd cap
5	621 231 C1	PIN, spring anchor	10	444 709	PLUG, core support (2)
6	19 804 R1	PIN, dowel case (2)	11	270 835 R1	PLUG, transmission sump drain
7		SHIM, transmission case mounting (.002") (Order PACKAGE, 622 783 C91) (4)	12	20 040 R1	DOWEL, cover
7		SHIM, transmission case mounting (.007") (Order PACKAGE, 622 783 C91) (4)	13	622 145 C1	GAUGE, transmission oil level
7		SHIM, transmission case mounting (.020") (Order PACKAGE, 622 783 C91) (8)	14	372 821 R1	"O" RING, filler tube sealing (Used w/TUBE 621 283 C2)
8	22 405 R1	"O" RING, transmission case pilot sealing (Not part of "Transmission Assembly")	OR		
			14	257 611 R1	"O" RING, filler tube sealing (Used w/TUBE 716 829 C1)
			15	621 283 C2	TUBE, oil filler (Use 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		WASHER, flat (2)
			16	610 411 C1	"O" RING, manifold sealing (2)

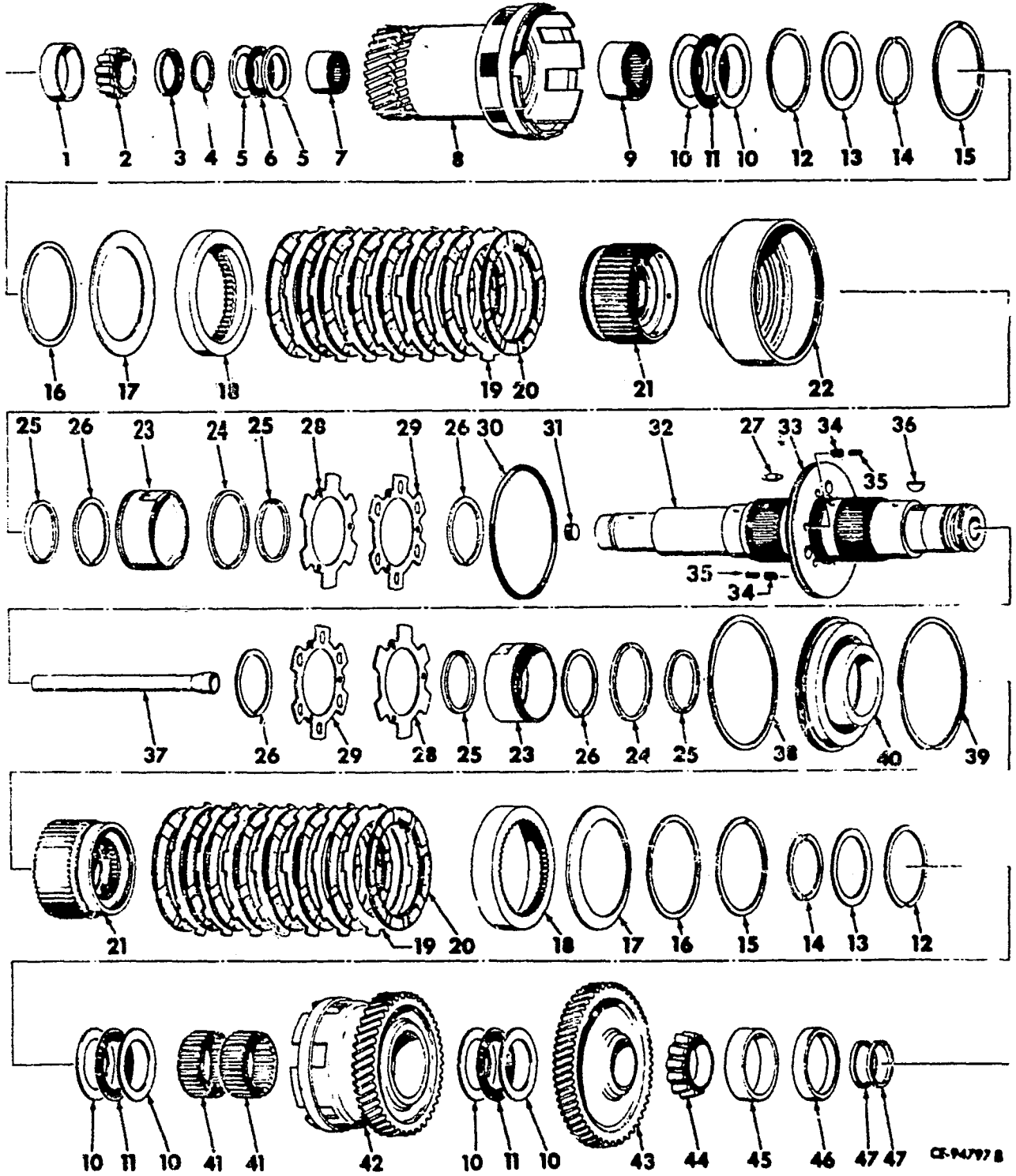


## DRIVE TRAIN

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 (As Required) (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
				1 "O" RING	364 108 R1
				1 "O" RING	372 821 R1
				1 "O" RING	610 411 C1
18	444 619	PLUG, pipe (7)		1 RING	257 611 R1
19	610 411 C1	"O" RING, input shaft support seal		1 RING	622 302 C1
				1 SEAL	627 875 C91
20		SHIM, input shaft support (.005") (Order PACKAGE, 622 784 C91) (4)		1 SEAL	622 300 C92
				1 SEAL	622 301 C1 )
20		SHIM, input shaft support (.007") (Order PACKAGE, 622 784 C91) (4)			
20		SHIM, input shaft support (.020") (Order PACKAGE, 622 784 C91) (6)			
21	622 281 C1	SUPPORT, input shaft			
	70 427 R1	SCREW, hex-hd cap (2)			
	115 314	WASHER, lock (4)			
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			
	115 093	WASHER, lock (2)			
	140 483 H	SCREW, hex-hd cap (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 "Transmission Assembly")			

# DRIVE TRAIN

## TRANSMISSION DIRECTION CLUTCH PACK



CS-94778

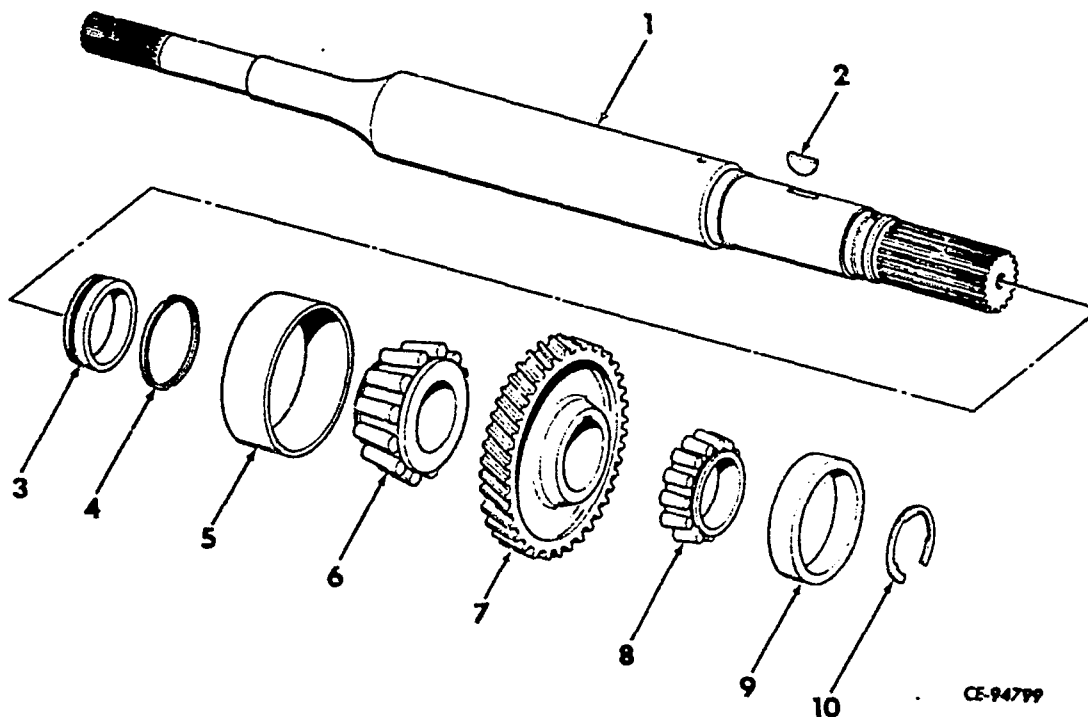
## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION DIRECTION CLUTCH PACK</b>			25	625 946 C2	RING, step joint seal (Also Part of KIT, 625 878 C91) (4)
	619 856 C93	PACK ASSY., directional clutch (Composed of -	26	200 167 H1	RING, snap (External) (Also Part of KIT, 625 878 C91) (2)
1	459 456 R91	CONE, direction clutch shaft rear bearing (Not part of PACK ASSY., 619 856 C93)	27	627 666 C2	PIN, dowel (3)
2	642 954 R1	CUP, direction clutch shaft rear bearing (Not part of PACK ASSY., 619 856 C93)	28	610 751 C1	DISC, valve clutch (2)
3	622 613 C1	RETAINER, reverse gear snap ring (Not part of PACK ASSY., 619 856 C93)	29	625 205 C1	DISC, reinforcing clutch (2)
4	625 236 C1	RING, snap (External) (Also Part of KIT, 625 878 C91)	30	324 227 R1	"O" RING (Also Part of KIT, 625 878 C91)
5	625 261 C1	WASHER, thrust (2)	31	625 262 C1	PLUG, pipe
6	371 226 R91	BEARING, thrust	32	625 230 C91	SHAFT ASSY., direction clutch (Composed of -
7	625 256 C91	BEARING, roller			3 PIN 17 164 R1
8	62 237 C91	GEAR and DRUM w/BEARING, 625 256 C91 and BEARING, 676 871 R91			1 PLATE 625 201 C1
9	676 871 R91	BEARING, roller			1 PLUG 625 262 C1
10	625 260 C1	WASHER, thrust (6)			2 RING 200 167 H1
11	625 257 C91	BEARING, thrust (3)			\$ 1 SHAFT
12	324 232 R1	RING, snap (Internal) (2)			\$ 1 TUBE
13	627 420 C1	SPACER, clutch (2)			PIN, roll (3)
14	627 419 C1	RING, retainer split (4)	33	625 201 C1	PLATE, separator
15	333 857 R2	RING, snap (External) (2)	34	625 206 C1	SPRING, outer compression (Also Part of KIT, 625 878 C91) (6)
16	675 670 R1	RETAINER, snap ring (2)	35	625 821 C1	SPRING, inner compression (Also Part of KIT, 625 878 C91) (6)
17	675 659 R1	WASHER, spring (2)	36	124 551	KEY
18	625 235 C1	PLATE, clutch backing (2)	37		TUBE (Not Furnished Separately)
19	324 241 R1	PLATE, external splined (18)	38	324 226 R1	"O" RING (Lathe cut) (Also Part of KIT, 625 878 C91)
20	675 667 R1	PLATE, internal splined (20)	39	347 297 R1	RING, snap (Internal)
21	627 417 C91	HUB ASSY., clutch final (2) (Composed of -	40	627 687 C2	PISTON, clutch
		\$ 1 HUB	41	625 220 C91	BEARING, roller (2)
		9 PLATE 324 241 R1	42	625 238 C1	GEAR and DRUM
		1 PLATE 625 235 C1	43	622 288 C1	GEAR, input driver
		10 PLATE 675 667 R1	44	663 557 R91	CONE, direction clutch shaft front bearing (Not part of PACK ASSY., 619 856 C93)
		1 RETAINER 675 670 R1	45	663 558 R1	CUP, direction clutch shaft front bearing (Not part of PACK ASSY., 619 856 C93)
		1 RING 333 857 R2	46	628 282 C1	SPACER, direction shaft front bearing adjust (.274 to .275" thick) (Not part of PACK ASSY., 619 856 C93)
		1 WASHER 675 669 R1)	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)
22	627 690 C2	HOUSING, piston	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)
23	627 689 C2	PISTON, accelerating (2)			
24	200 168 H1	RING, seal (Also Part of KIT, 625 878 C91) (2)			

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION DIRECTION CLUTCH PACK</b> 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)
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)	47	621 210 C2	RING, direction shaft front sealing (Not part of PACK ASSY., 619 856 C93) (2)
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)	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	200 188 H1
				1 RING	625 236 C1
				4 RING	625 946 C2
				6 SPRING	625 206 C1
				6 SPRING	625 821 C1)
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)			

### TRANSMISSION INPUT SHAFT

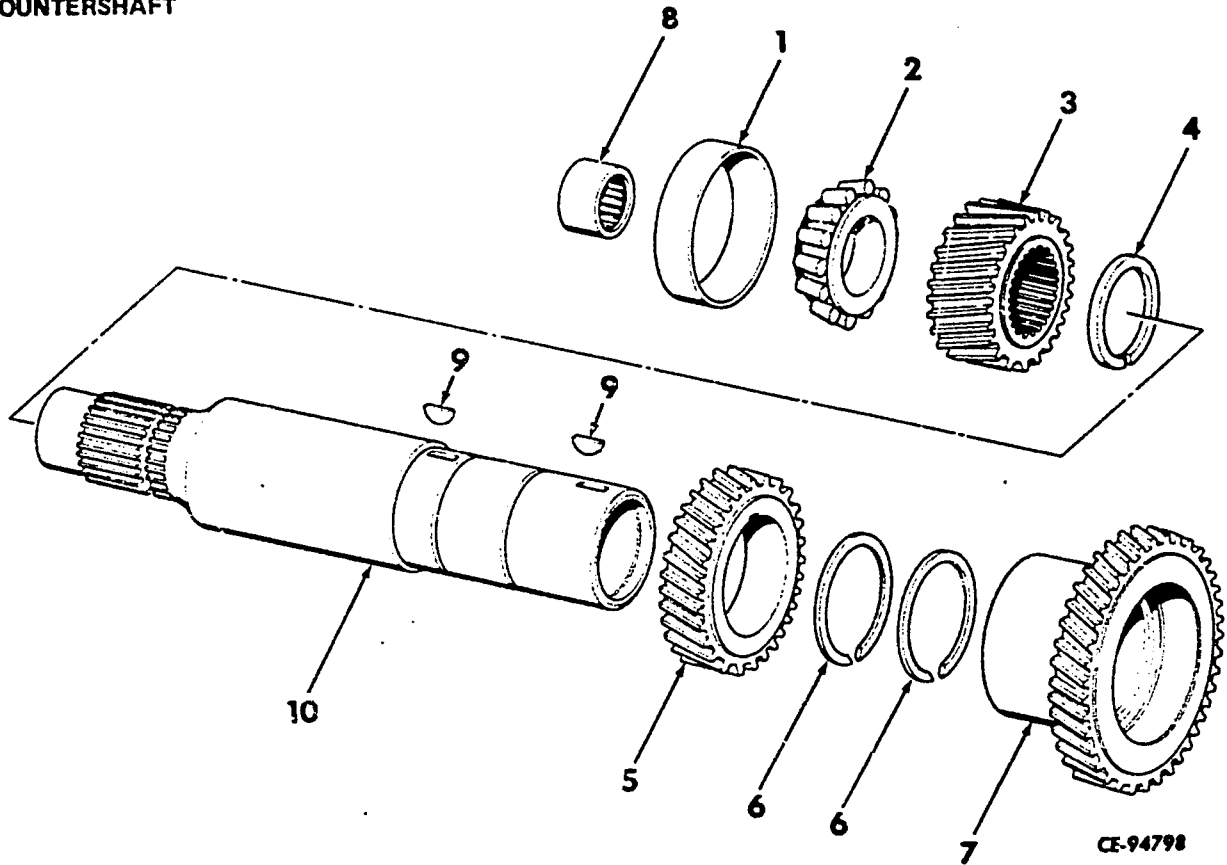


1	622 273 C91	SHAFT, w/CARRIER, 622 275 C1, input	6	290 808 R91	CONE, countershaft front bearing
2	218 211	KEY, input drive gear	7	622 280 C1	GEAR, input drive
3	622 275 C1	CARRIER, seal ring	8	ST 973	CUP, input shaft front bearing
4	622 302 C1	RING, lubrication seal	9	ST 2053	CONE, input shaft front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

## DRIVE TRAIN

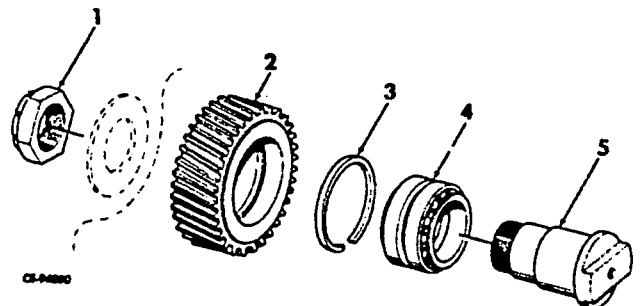
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### TRANSMISSION COUNTERSHAFT



- |    |             |   |
|----|-------------|---|
| 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<br>308 674 R91 and RING, 621 191 C1 |

### TRANSMISSION REVERSE IDLER SHAFT

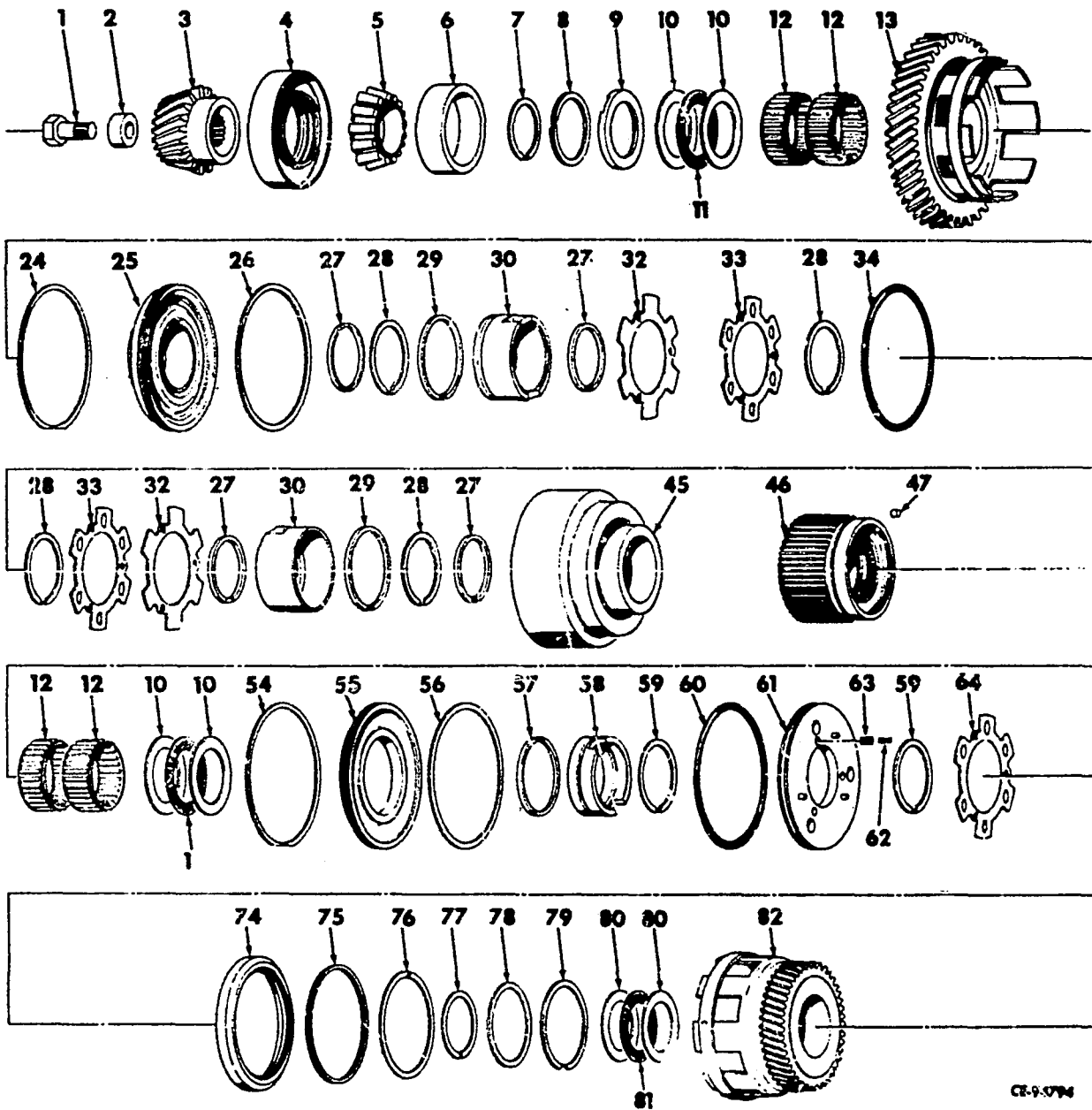


- |   |                          |                                  |
|---|--------------------------|----------------------------------|
| 1 | 18 615 R1                | NUT, lock                        |
| 2 | 621 203 C1               | GEAR, reverse idler              |
| 3 | 627 095 C1          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

## DRIVE TRAIN

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



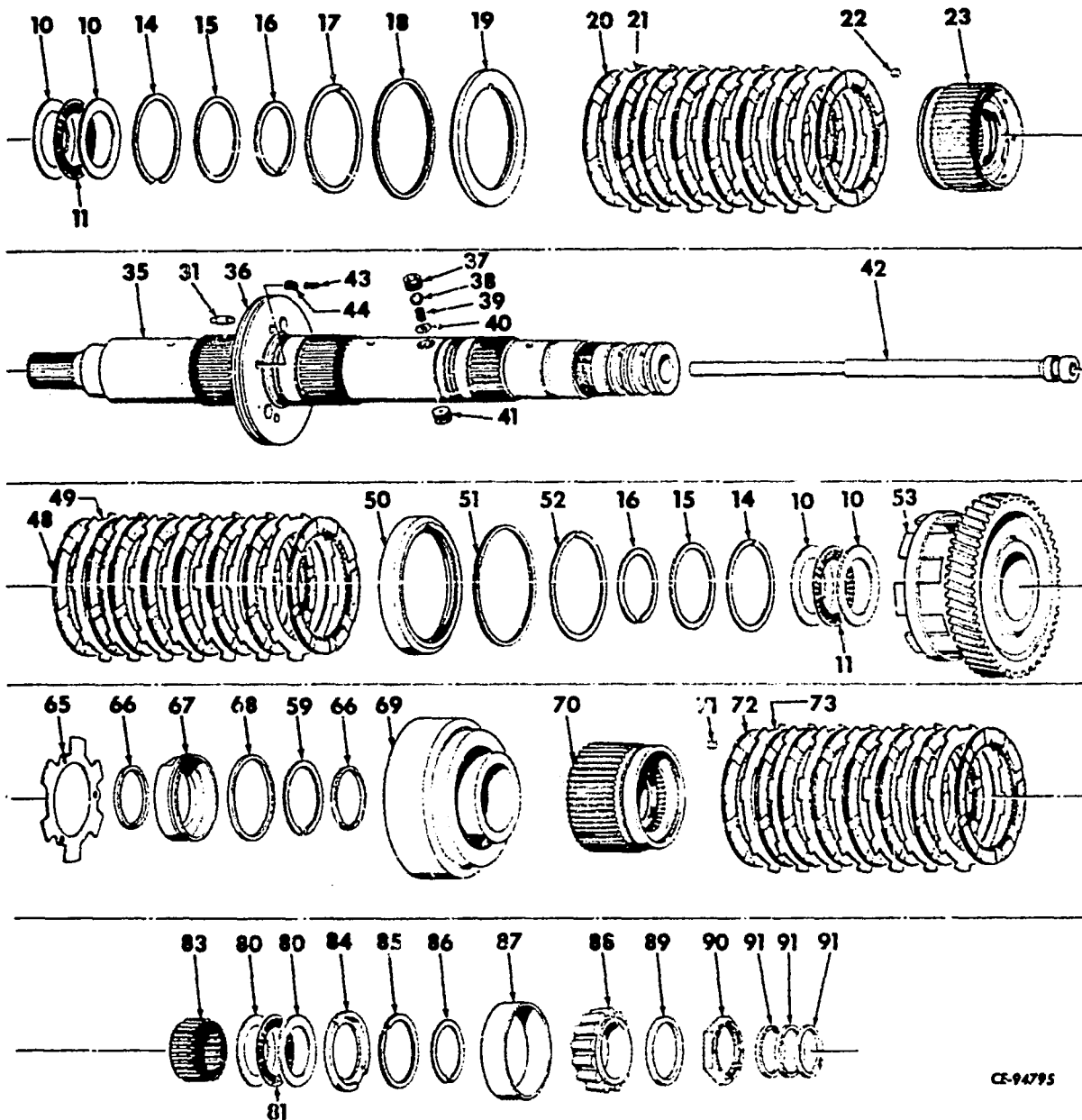
CE-9-07M

	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)		4	622 300 C92	SEAL, bevel pinion shaft oil (Not part of PACK ASSY., 619 855 C94)
2	622 260 C1	PLATE, pinion gear retainer (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



CS-94795

5	625 431 C91	CONE, bevel pinion shaft rear bearing (Not part of PACK ASSY., 619 855 C94)	8	144 246 H1	RING, snap (Internal)
6	170 234 R1	CUP, bevel pinion shaft rear bearing (Not part of PACK ASSY., 619 855 C94)	9	625 225 C1	RETAINER, snap ring
7	625 253 C1	RING, snap (External)	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
<b>TRANSMISSION</b>			36	625 201 C2	PLATE, separator
<b>SPEED CLUTCH PACK AND RELATED PARTS - Continued</b>			37	625 231 C1	PLUG, 1/8" 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 C81	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	47		NOT USED
		1 RING 627 367 C1 )	48	675 667 R1	PLATE, internal splined (10)
24	347 297 R1	RING, snap (Internal)	49	324 241 R1	PLATE, external splined (9)
25	627 687 C2	PISTON, clutch	50	627 365 C1	PLATE, clutch backing
26	324 226 R1	"O" RING (Lathe cut)	51	627 367 C1	RING, snap (Internal)
27	625 933 C1	RING, step joint seal (4)	52	627 366 C1	RING, snap (External)
28	200 167 H1	RING, snap (External) (4)	53	625 221 C1	GEAR and DRUM
29	200 168 H1	RING, piston hook type seal (2)	54	347 297 R1	RING, snap (Internal)
30	627 689 C2	PISTON, accelerating (2)	55	625 212 C1	PISTON, return clutch
31	627 666 C2	PIN, dowel (3)	56	324 226 R1	"O" RING (Lathe cut)
32	610 751 C1	DISC, valve clutch (2)	57	619 098 C1	RING, piston hook type seal
33	625 205 C1	DISC, reinforcing clutch (2)	58	625 214 C1	SLEEVE, clutch
34	324 227 R1	"O" RING	59	324 222 R1	RING, snap (External) (3)
35	625 200 C91	SHAFT ASSY., speed clutch (Composed of -	60	324 227 R1	"O" RING
		1 BALL 625 949 C1	61	625 213 C91	PLATE, w/three PIN, 625 263 C1,
		3 PIN 17 164 R1			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			
		\$ 1 TUBE			
		1 WASHER 625 232 C1 )			
	17 164 R1	PIN, roll (3)			

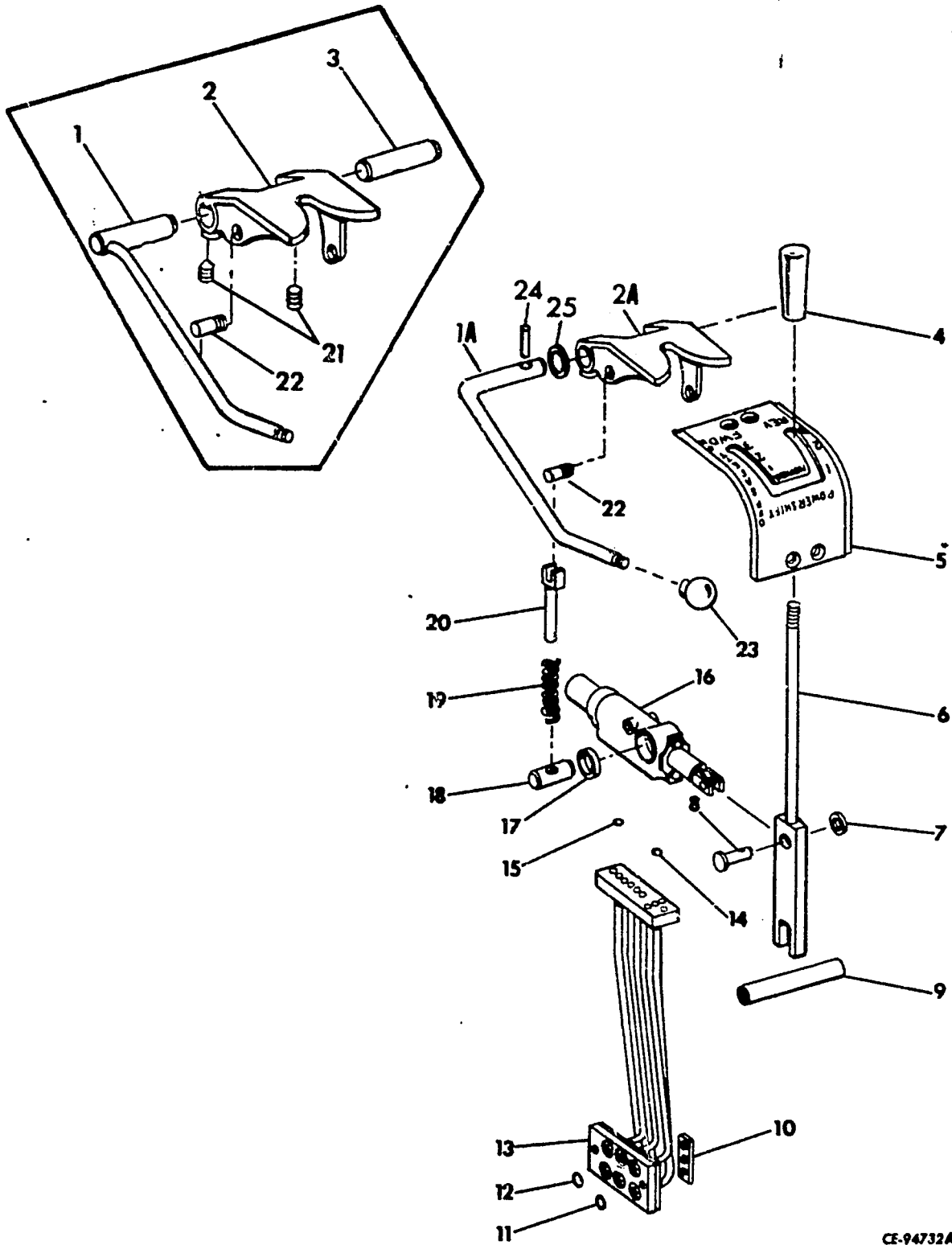


## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION</b>			89	628 277 C1	SPACER, pinion shaft front bearing adjusting (.0792 to .0807" thick) (Use one washer as required in place of 622 265 C1) (Not part of PACK ASSY., 619 855 C94)
<b>SPEED CLUTCH PACK AND RELATED PARTS - Continued</b>			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)
66	625 937 C1	RING, step joint seal (2)	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)
67	627 251 C2	PISTON, accelerating	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)
68	200 168 H1	RING, piston hook type seal	89	628 281 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)
69	625 216 C2	HOUSING, piston	90	622 272 C1	NUT, pinion shaft front bearing lock (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 )	91	621 210 C2	RING, speed shaft front sealing (Not part of PACK ASSY., 619 855 C94) (3)
71		NOT USED	621 054 C1	GEAR, drive bevel (Not part of PACK ASSY., 619 855 C94) (Also Listed and Illustrated with "Planetary and Steering Drive")	
72	675 667 R1	PLATE, internal splined (10)	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")	
73	324 241 R1	PLATE, external splined (9)	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                    625 937 C1 9 SPRING                 625 206 C1 9 SPRING                 625 821 C1 )	
74	627 365 C1	PLATE, clutch backing			
75	627 367 C1	RING, snap (Internal)			
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	594 268 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

## TRANSMISSION CONTROLS



CE-94732A

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION	
TRANSMISSION CONTROLS - Continued			11	352 221 R1	"O" RING, junction block drain sealing	
1	622 317 C2	LEVER, safety lock 6694 and below	12	355 966 R1	"O" RING, pilot control manifold junction sealing (5)	
1A	713 209 C1	LEVER, safety lock 6695 and up	13	622 321 C1	MANIFOLD, pilot valve to transmission hose junction block	
2	628 314 C91	LOCK w/CONTACT, safety 6694 and below (Order the following parts - 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)	616 268 C1	SCREW, hex-hd cap (3)	116 120	WASHER, lock (3)
2A	713 259 C91	LOCK w/CONTACT and PIN, 616 270 C1, safety (Together w/ one LEVER, 713 209 C1, one PIN, 364 436 R1, one SUPPORT, 713 214 C1, two SCREW, 713 215 C1 and one WASHER 713 274 C1, will work for LOCK, 628 314 C91) 6695 and up	14	352 219 R1	"O" RING, manifold to valve sealing (7)	
	25 933 R1	NUT, jam	15	355 967 R1	"O" RING, pilot valve drain sealing	
	141 036	SCREW, hd-less slotted set dog pt	16		VALVE ASSY, pilot control (For components see list of parts under details of "Pilot Control Valve")	
	223 155	SCREW, hd-less hex-soc set 1/2" dog pt	17	617 068 C1	BUSHING, safety lock pivot	
	116 121	WASHER, lock	18	327 910 R2	SHAFT, safety lock pivot	
3	622 977 C1	SHAFT, safety lock 6694 and below	19	331 953 R2	SPRING, safety lock	
4	347 768 R1	HANDLE, pilot control hand lever	20	327 912 R4	GUIDE, safety lock spring	
5	622 323 C2	GATE, power shift transmission control	21	617 256 C1	SCREW, safety lock lever set (2) 6694 and below	
	133 901	SCREW, flat-hd mach (4) 6694 and below (2) 6695 and up	22	616 270 C1	PIN, safety lock	
	713 215 C1	SCREW, flat-hd mach (2) 6695 and up	23	307 839 R1	KNOB, safety lock lever	
6	622 314 C1	LEVER, pilot control hand	24	364 436 R1	PIN, spring 6695 and up	
7	52 017 R1	WASHER, rod end pin	25	713 274 C1	WASHER, lever spring (2) 6695 and up	
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 (2)				
	25 768 R1	SCREW, 3/8" dia. hex-hd cap (2)				
	115 109	WASHER, 1/4" lock (2)				
	115 093	WASHER, 3/3" lock (2)				
	103 341	WASHER, flat (2)				

## DRIVE TRAIN

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>REGULATOR VALVE</b>			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)
			6	657 503 C1	SPRING, lubricating valve
			7	022 658 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, flat (3)  
 (Composed of -

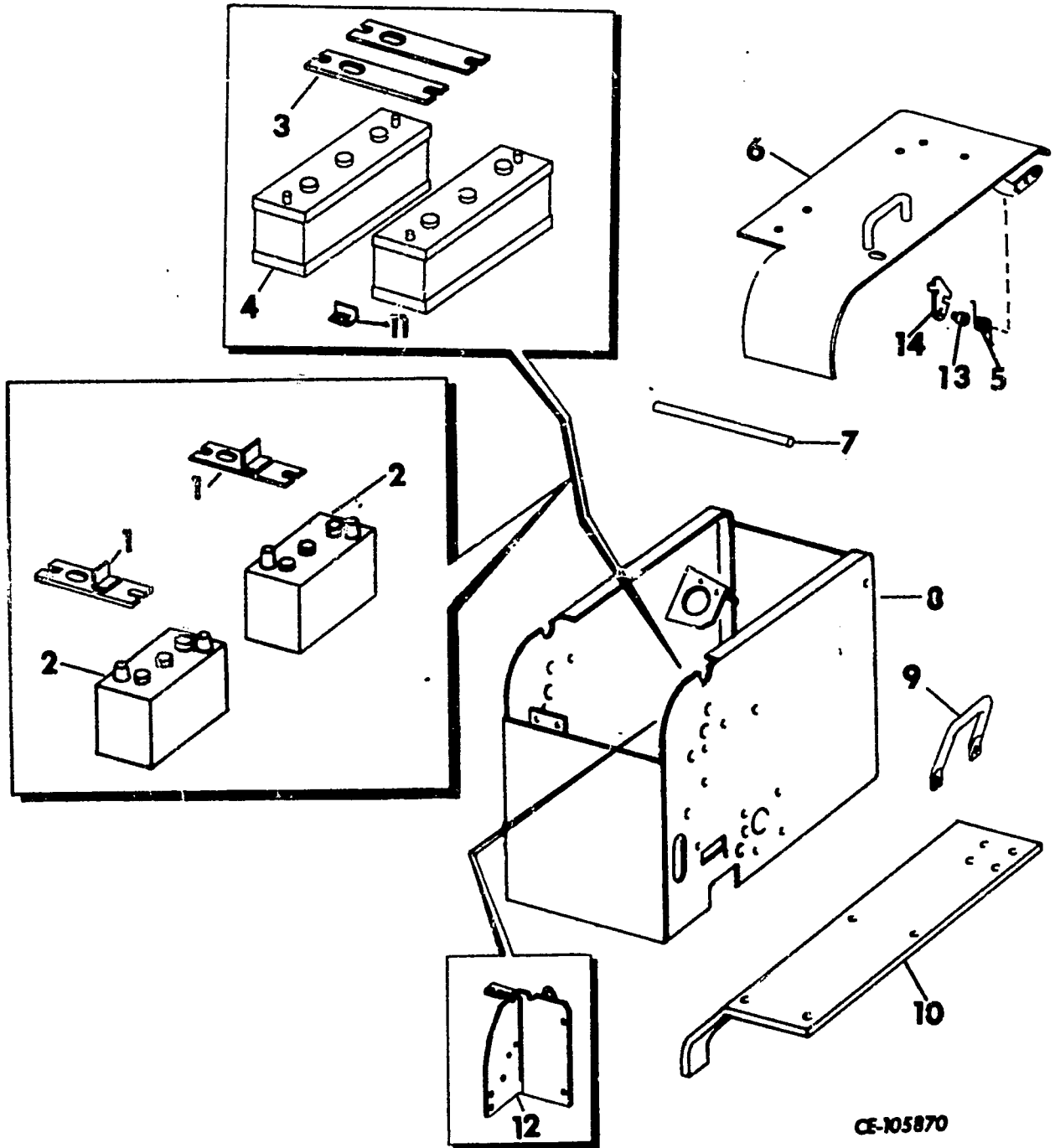
**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**

**ELECTRICAL**

**8**

# ELECTRICAL

## BATTERIES AND MOUNTING

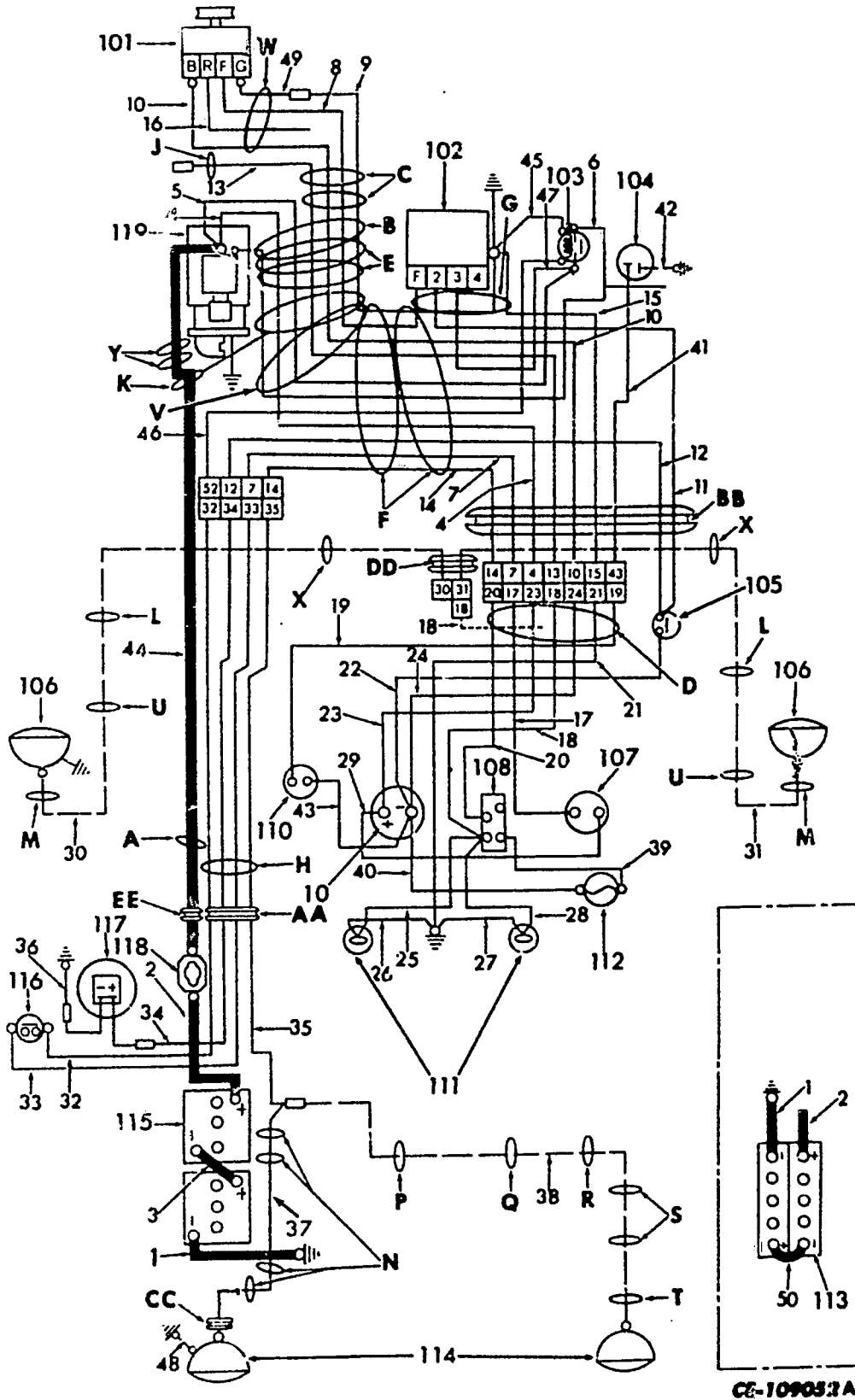


## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BATTERIES AND MOUNTING - Continued			12	628 312 C1 24 840 R1 106 263 115 083	PLATE, battery box divider SCREW, hex-hd cap (4) WASHER, flat (4) WASHER, lock (4)
1	663 130 C1 24 841 R1	CHANNEL, battery holddown (For models not equipped w/cold starting BATTERIES) (2) SCREW, hex-hd cap (4)	13	628 208 C1	SPACER cover latch
2	1H PF2	BATTERY (Not cold starting) (6 volt dry charged) (2)	14	628 206 C3 25 927 R1 103 340 116 120 25 520 R1	LATCH, battery box cover SCREW, hex-hd cap WASHER, flat WASHER, lock NUT
3	663 131 C1 24 343 R1	CHANNEL, battery holddown (For models equipped w/cold starting BATTERIES) (2) SCREW, hex-hd cap (4)			
4	1H 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 two WASHER, 120 382, also two SCREW, 713 215 C1) 6683 and below			
8	668 319 C92	BOX w/COVER (Order BOX, 668 319 C93 and two SCREW, 713 215 C1) 6684 to 6694			
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 and two WASHER, 102 382 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) 6695 and up			
	24 873 R1 25 537 R1	SCREW, hex-hd cap (4) WASHER, flat (4)			
9	621 741 C1 24 861 R1 116 121 25 526 R1	HANDLE, assist SCREW, hex-hd cap (2) WASHER, lock (2) NUT (2)			
10	668 198 C3 24 890 R1 25 548 R1	BRACKET, battery box support BOLT (4) WASHER, hardened (4)			
11	621 760 C1 179 839 103 341 103 321	ANGLE, front battery locating (For models equipped w/cold starting BATTERIES) SCREW, hex-hd cap (2) WASHER, flat (2) WASHER, lock (2)			

# ELECTRICAL

## ELECTRIC STARTING AND LIGHTING (6683 and below)





## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6683 and below)			16		CABLE, "R" terminal on alternator to dummy calbe (Black) (Part of dash Harness)
<u>CABLES</u>			17		CABLE, dash connector to starting switch (White) (Part of instrument panel Harness)
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	19		CABLE, ether starting switch to dash connector (Pink) (Part of instrument panel Harness)
	180 858	WASHER, lock (2)	20		CABLE, dash connector to "R" terminal on light switch (Dark blue) (Part of instrument panel Harness)
2	703 056 C2	CABLE, positive terminal on battery to master switch	21		CABLE, dash connector to ground screw on instrument panel (Black) (Part of instrument panel Harness)
3	621 821 C2	CABLE, battery to battery (For mode's not equipped w/cold starting BATTERIES)	22		CABLE, engine oil pressure switch to negative terminal on ammeter (Yellow) (Part of instrument panel Harness)
4		CABLE, "B" terminal on solenoid to dash connector (Red) (Part of dash Harness)	23		CABLE, dash connector to positive terminal on ammeter (Red) (Part of instrument panel Harness)
5		CABLE, "B" terminal on solenoid to magnetic switch (Orange) (Part of dash Harness)	24		CABLE, dash connector to negative terminal on ammeter (Brown) (Part of instrument panel Harness)
6		CABLE, "S" terminal on solenoid to magnetic switch (White) (Part of dash Harness)	25		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
7		CABLE, safety switch connector to dash connector (White) (Part of dash Harness)	26		CABLE, instrument panel ground screw 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)	27		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)	28		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel lamp)
10		CABLE, "B" terminal on alternator to dash connector (Brown) (Part of dash Harness)	29	266 098 R91	CABLE, positive terminal on ammeter to start switch
11		CABLE, No. 2 terminal on regulator to engine oil pressure switch (Light blue) (Part of dash Harness)	30		CABLE, front lamp connector to LH front lamp (Part of front lamp connector Harness)
12		CABLE, safety switch connector to engine oil pressure switch (Purple) (Part of dash Harness)	31		CABLE, front lamp connector to RH front lamp (Part of front lamp connector Harness)
13		CABLE, front lamp connector to dash connector (Dark green) (Part of dash Harness) (Used on dozer)	32		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)			
15		CABLE, mounting bolt of regulator to dash connector (Black) (Part of dash Harness)			

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC STARTING AND LIGHTING - Continued</b> (6683 and below)			48	622 999 C1	CABLE, lamp brush guard to top rear bolt of canopy rear support LH side (Part of ATTACHMENT, 632 690 C91)
<u>CABLES - Continued</u>				21 176 R1	SCREW, 3/4" long hex-hd cap
				120 384	WASHER, lock
33		CABLE, safety starting switch to safety switch connector (White) (Part of safety starting switch Harness)		211 216 R1	SCREW, 4" long hex-hd cap
				25 645 R1	WASHER, flat
			49	650 894 C1	CABLE, alternator "G" terminal to connector (Used w/HARNESS, 621 819 C3)
34		CABLE, hourmeter connector positive to safety switch connector (Purple) (Part of safety starting switch Harness)	50	266 854 R92	CABLE, battery to battery (For models equipped w/cold starting BATTERIES)
35		CABLE, rear lamp connector to safety switch connector (Dark blue) (Part of safety starting switch Harness)	<u>MAIN COMPONENTS</u>		
36	271 065 R91	CABLE, negative ground terminal on hourmeter to ground	101		ALTERNATOR ASSY (Refer to "Alternator")
	110 633	NUT	102		REGULATOR, voltage (Refer to "Voltage Regulator")
	436 732	SCREW, mach	103	706 124 C2	SWITCH, magnetic
	178 378	WASHER, lock		120 214	WASHER, 5/16" lock (2)
37		CABLE, LH rear lamp to rear lamp connector (Dark blue) (Part of safety starting switch Harness)		120 376	NUT, 5/16" (2)
				120 217	WASHER, No. 10 lock (2)
38	621 844 C1	CABLE, rear lamp connector to RH rear lamp (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)		120 614	NUT, No. 10 (2)
				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	104		INJECTOR, electric ether (Refer to "Ether Injector, Bracket and Nozzle")
40	621 813 C1	CABLE, fuse housing to negative terminal on ammeter	105		SWITCH, hourmeter (Refer to "Instruments and Instrument Panel")
41		CABLE, ether injector to dash connector (Pink) (Part of dash Harness)	106		LIGHT ASSY, LH and RH front (Refer to "Headlight and Rear Light")
42		CABLE, ether injector to ether injector mounting bolt (Black) (Part of dash Harness)	107		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
43	266 098 R91	CABLE, ether starting switch to negative terminal on ammeter	108		SWITCH, lighting (Refer to "Lighting Switch")
44	622 189 C1	CABLE, master switch to "B" terminal on solenoid	109		AMMETER (Refer to "Instruments and Instrument Panel")
45		CABLE, magnetic switch to regulator mounting bolt (Black) (Part of dash Harness)	110		SWITCH, ether starting (Refer to Starting and Ether Starting Switch")
46		CABLE, safety start switch connector to magnetic switch (White) (Part of dash Harness)	111	621 774 C91	LAMP, instrument panel (2)
47		CABLE, number 3 terminal on regulator to magnetic switch (Orange) (Part of dash Harness)	112	376 852 R91	HOUSING, fuse
				432 644	FUSE
			113		BATTERIES (Cold starting) (Refer to "Batteries and Mounting")
			114		LIGHT ASSY, rear and auxiliary (Refer to "Head Light and Rear Light")

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC STARTING AND LIGHTING - Continued</b> 6683 and below			M	263 717 R91	CLAMP, on lower inside mounting hole front lamp guards (Part of ATTACHMENT, 632 690 C91) (Replaces 622 967 C1) (2)
<b><u>MAIN COMPONENTS - Continued</u></b>				24 860 R1	BOLT (2)
115		BATTERIES (Refer to "Batteries and Mounting")		25 526 R1	NUT (2)
				116 121	WASHER, lock (2)
116	621 771 C91	SWITCH, safety starting	M	263 717 R91	CLAMP, on bottom inside mounting hole front lamp guards (Part of ATTACHMENT, 632 691 C91) (Replaces 622 967 C1) (2)
117		HOURMETER (Refer to "Hourmeter")			
118		SWITCH, master (Refer to "Master Switch")	N		CLIP, welded
119		MOTOR ASSY, cranking (Refer to Cranking Motor")	P	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)
<b><u>CLIPS AND CLAMPS</u></b>					
A	622 963 C1	CLIP, master switch to solenoid cable (Tapping block, LH side of front frame)	Q	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)
B	363 444 R1	CLIP, dash harness (On rear ether injector mounting bolt)	R	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)
C	363 444 R1	CLIP, dash harness (On forward two crankcase bosses — LH side) (2)			
	24 838 R1	SCREW, hex-hd cap			
	115 093	WASHER, lock			
D		CLIP, welded			
E	363 444 R1	CLIP, dash harness (On top two inspection cover mounting bolts) (2)	S	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)
F		CLIP, welded			
G		CLIP, welded	T	299 609 C1	CLAMP, rear lamp cable (On LH tapped hole on rear of hydraulic tank) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)
H	363 444 R1	CLIP, safety starting switch harness (Tapping block LH side of front frame)	U	320 180 R1	CLAMP, on lamp guard mounting bracket bolt (Part of ATTACHMENT, 632 690 C91) (2)
	24 838 R1	SCREW, hex-hd cap	V	363 444 R1	CLIP, dash harness (On second and third bolt from top LH side of torque converter rear housing) (2)
	115 093	WASHER, lock	W	363 444 R1	CLIP, dash harness (On back of alternator pivot mounting bolt)
J	604 388 C91	CLIP, dash harness (On LH outer upper bolt of crankcase front cover)	X	702 093 C1	STRAP, cable support (Part of ATTACHMENT, 632 690 C91) (2)
K	616 175 C2	CLIP, battery cable and dash harness (On bottom LH side of dash)	Y	604 388 C91	CLIP, master switch to solenoid cable (On lower two inspection cover mounting bolts) (2)
	25 526 R1	NUT			
	24 859 R1	SCREW, hex-hd cap			
	116 121	WASHER, lock			
L	311 500 R1	CLAMP, on LH-RH side of front frame below lamp guard mounting bracket (Part of ATTACHMENT, 632 690 C91) (2)			
	25 655 R1	SCREW, hex-hd cap (2)			
	115 093	WASHER, lock (2)			

## ELECTRICAL

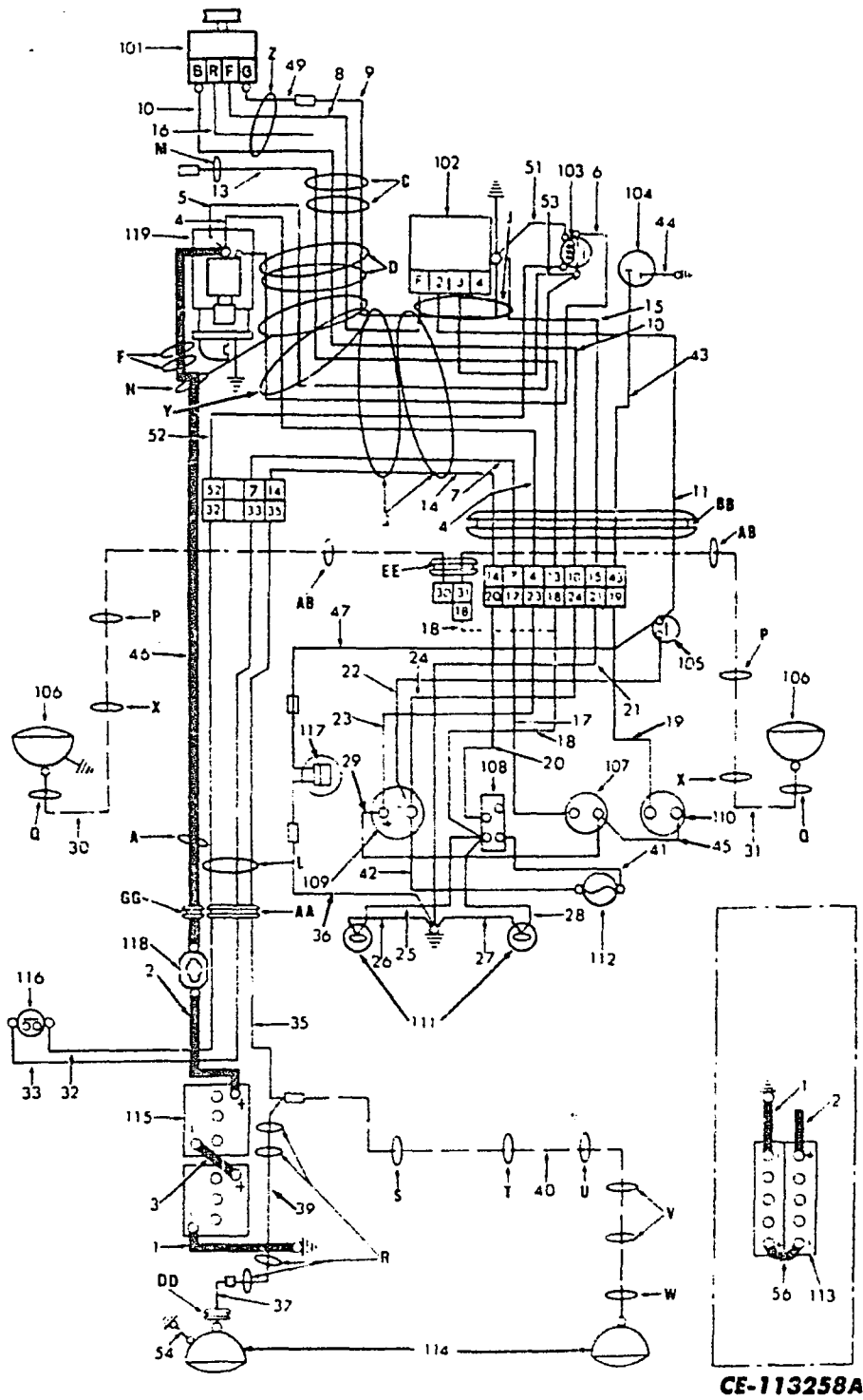
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC STARTING AND LIGHTING - Continued</b> (6683 and below)			621 820 C1	HARNESS, instrument panel (Consists of Cables 17 thru 24)	
<b>CLIPS AND CLAMPS - Continued</b>			120 361	NUT, No. 10 (2)	
			436 734	SCREW, hex-hd cap	
			178 378	WASHER, in-ext tooth lock (2)	
			120 217	WASHER, No. 10 lock	
299 609 C1		CLIP (On bottom hole of ROPS rear post (Part of ATTACHMENT, 632 690 C91 and 632 691 C91)	621 814 C2	HARNESS, safety starting switch (Consists of Cables 30 thru 33 and 37)	
211 216 R1		BOLT			
21 330 R1		NUT			
25 645 R1		WASHER			
299 609 C1		CLIP (On bottom hole of ROPS rear post) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)			
20 654 R1		BOLT			
102 637		NUT			
25 673 R1		WASHER			
702 093 C1		STRAP for unused cables (4)			
		<b>GROMMETS</b>			<b>MISCELLANEOUS</b>
AA	63 323 D	GROMMET, lower RH corner battery box (Part of ATTACHMENT, 632 690 C91 and 632 691 C91)	632 690 C91	ATTACHMENT, electrical lighting (For use w/Roll Over Protective Canopy Structure w/o backhoe) (See NOTE 1)	
BB	176 027 H1	GROMMET, dash (New center)		(Consists of -	
CC	617 259 C1	GROMMET, top rear of battery box cover (Part of ATTACHMENT, 632 690 C91 and 632 691 C91)		1	BOLT 21 176 R1
				2	BOLT 21 329 R1
				1	BOLT 24 859 R1
				2	BOLT 24 860 R1
				2	BOLT 25 655 R1
DD	39 670 H	GROMMET, on top of instrument panel housing		2	BOLT 211 216 R1
				3	BOLT 236 485 R1
EE	52 062 D	GROMMET, lower RH corner battery box		4	BOLT 454 998
				4	BOLT 455 000
				2	BRACKET 621 837 C1
				1	BRACKET 709 314 C1
		<b>HARNESSES</b>		1	CABLE 622 999 C1
621 819 C3		HARNESS, dash (Consists of Cables 4 thru 16, 42, 43, 45, 46 and 47)		1	CABLE 709 063 C1
				2	CLAMP 311 500 R1
				2	CLAMP 320 180 R1
				2	CLIP 263 717 R91
				3	CLAMP 299 609 C1
		HARNESS (To Cranking Motor)		1	GROMMET 63 323 D
120 377		NUT, 3/8"		1	GROMMET 617 259 C1
120 614		NUT, No. 10 NF		2	GUARD 668 262 C1
120 382		WASHER, 3/8" lock		1	HARNESS 621 838 C1
120 217		WASHER, No. 10 lock		3	LAMP 625 657 C91
				13	NUT 21 330 R1
		HARNESS (To Alternator)		3	NUT 25 526 R1
120 614		NUT, No. 10 NF		2	STRAP 702 093 C1
121 743		NUT, No. 12		3	SWIVEL 303 706 R1
121 744		WASHER, No. 12 lock		4	WASHER 25 645 R1
120 217		WASHER, No. 10 lock		2	WASHER 115 093
				3	WASHER 116 121
621 838 C1		HARNESS, front lamp connector to front lamps (Part of ATTACHMENTS 632 690 C91 and 632 691 C91) (Consists of Cables 30 and 31)		8	WASHER 120 384
				3	WASHER 138 530
				7	WASHER 180 447 )

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC STARTING AND LIGHTING - Continued</b> (6683 and below)					
<b>MISCELLANEOUS - Continued</b>					
668 352 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/ Roll-Over Protective Canopy Structure w/o backhoe) (See NOTE 3)			1 GUARD 668 262 C1 1 LAMP 625 657 C91 2 NUT 102 637 1 NUT 120 378 1 PLATE 668 294 C1 1 SWIVEL 303 706 R1 1 WASHER 25 673 5 WASHER 118 975 1 WASHER 120 384 )
		(Consists of -	632 691 C91		ATTACHMENT, electric lighting (For use w/Roll-Over Protective Canopy Structure and backhoe) (See NOTE 1)
	2	BOLT 20 288 R1			(Consists of -
	1	BOLT 20 654 R1		1	BOLT 24 859 R1
	1	BOLT 179 890		1	BOLT 211 216 R1
	1	BRACKET 709 314 C1		3	BOLT 236 485
	1	CABLE 621 844 C1		8	BOLT 454 998
	3	CLAMP 311 500 R1		4	BOLT 455 000
	2	CLAMP 320 180 R1		2	BRACKET 621 837 C1
	3	CLIP 299 609 C1		1	CABLE 709 063 C1
	1	LAMP 625 657 C91		2	CLAMP 263 717 R91
	4	NUT 102 637 R1		3	CLIP 299 609 C1
	1	NUT 120 378		1	GROMMET 63 323 D
	1	SWIVEL 303 706 R1		1	GROMMET 617 259 C1
	3	WASHER 25 673 R1		3	GUARD 668 262 C1
	1	SWIVEL 303 706 R1		1	HARNES 621 838 C1
	3	WASHER 25 673 R1		3	LAMP 625 657 C91
	1	WASHER 120 384		11	NUT 21 330 R1
	1	WASHER 120 384 )		1	NUT 25 526 R1
				1	PLATE 668 294 C1
668 353 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/Roll-Over Protective Canopy Structure and backhoe (See NOTE 3)		3	SWIVEL 303 706 R1
		(Consists of -		3	WASHER 25 645 R1
	1	BOLT 20 654 R1		1	WASHER 116 121
	4	BOLT 179 881		7	WASHER 120 384
	1	BOLT 179 890		3	WASHER 138 500
	1	CABLE 621 844 C1		9	WASHER 180 447 )
	3	CLAMP 311 500 R1	706 412 C91		ATTACHMENT, electric rear light (For use w/ROPS, w/rear screen, w/o backhoe) (See NOTE 3)
	2	CLAMP 320 180 R1			(Consists of -
	3	CLIP 299 609 C1		1	LAMP 668 292 C91
				1	NUT 120 378
				1	WASHER 120 384 )
			104 941		CORK, No. 5 head lamp guard mount- ing hole (On radiator guard) (Not used on models equipped w/head- lights) (4)
			106 623		CORK, No. 8 front lamp cable grommet hole (On radiator guard) (Not used on models equipped w/ headlights) (2)

# ELECTRICAL

## ELECTRIC STARTING AND LIGHTING (6684 and up)



## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6684 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	20		CABLE, dash connector to "R" terminal on light switch (Dark Blue) (Part of instrument panel HARNESS)
	180 358	WASHER, lock (2)	21		CABLE, dash connector to ground screw on instrument panel (Black) (Part of instrument panel HARNESS)
2	703 056 C2	CABLE, positive terminal on battery to master switch	22		CABLE, engine oil pressure switch to negative terminal on ammeter (Yellow) (Part of instrument panel HARNESS)
3	621 821 C2	CABLE, battery to battery	23		CABLE, dash connector to positive terminal on ammeter (Red) (Part of instrument panel HARNESS)
4		CABLE, "B" terminal on solenoid to dash connector (Fied) (Part of dash HARNESS)	24		CABLE, dash connector to negative terminal on ammeter (Brown) (Part of instrument panel HARNESS)
5		CABLE, "B" terminal on solenoid to magnetic switch (Orange) (Part of dash HARNESS)	25		CABLE, "H" terminal on light switch to instrument panel lamp (Part of instrument panel LAMP)
6		CABLE, "S" terminal on solenoid to magnetic switch (White) (Part of dash HARNESS)	26		CABLE, instrument panel ground screw to instrument panel lamp (Part of instrument panel LAMP)
7		CABLE, safety switch connector to dash connector (White) (Part of dash HARNESS)	27		CABLE, instrument panel ground screw 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)	28		CABLE, "H" terminal on light switch 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)	29	266 098 R91	CABLE, positive terminal on ammeter to start switch
10		CABLE, "B" terminal on alternator to dash connector (Brown) (Part of dash HARNESS)	30		CABLE, front lamp connector to LH front lamp (Part of front lamp connector HARNESS)
11		CABLE, No. 2 terminal on regulator to engine oil pressure switch (Light Blue) (Part of dash HARNESS)	31		CABLE, front lamp connector to RH front lamp (Part of front lamp HARNESS)
13		CABLE, front lamp connector to dash connector (Dark Green) (Part of dash HARNESS)	32		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)	33		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)			
16		CABLE, "R" terminal on alternator to dummy cable (Black) (Part of dash 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 (6684 and up)			54	622 999 C1	CABLE, on bottom hole on LH ROPS rear post to hole on battery box (Part of ATTACHMENT, 632 690 C91)
<u>CABLES - Continued</u>					
35		CABLE, rear lamp connector to safety switch connector (Dark Blue) (Part of safety starting switch HARNESS)		21 176 R1 120 384 211 216 R1 25 645 R1	BOLT, 3/4" long WASHER, lock BOLT, 4" long WASHER, flat
36	709 268 C1	CABLE, ground screw on instrument panel to negative terminal on hourmeter connector	55	650 894 C1	CABLE, alternator "G" terminal to connector (Used w/HARNESS, 621 819 C3)
37	709 063 C1	CABLE, armored (LH rear lamp to connector w/ROPS canopy) (Part of ATTACHMENT, 632 690 C91 and 632 691 C91)	56	266 854 R92	CABLE, battery to battery (Cold starting)
<u>MAIN COMPONENTS</u>					
37	709 064 C1	CABLE, armored (LH rear lamp to connector w/o ROPS canopy)	101		ALTERNATOR (Refer to "Alternator")
39		CABLE, LH rear lamp to rear lamp connector (Dark Blue) (Part of safety starting switch HARNESS)	102		REGULATOR, voltage (Refer to "Voltage Regulator")
40		CABLE, rear lamp connector to RH rear lamp (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)	103	706 124 C2 120 214 120 376 120 217 120 614 25 222 R1 115 109	SWITCH, magnetic WASHER, 5/16" lock (2) NUT, 5/16" (2) WASHER, No. 10 lock (2) NUT, No. 10 (2) BOLT (2) WASHER, lock (2)
41	604 893 C91	CABLE, fuse housing to "B" terminal on light switch	104		INJECTOR, electric ether (Refer to "Ether Injector, Bracket and Nozzle")
42	621 813 C1	CABLE, fuse housing to negative terminal on ammeter	105		SWITCH, engine oil pressure (Refer to "Instruments and Instrument Panel")
43		CABLE, ether injector to dash connector (Pink) (Part of dash HARNESS)	106		LIGHT, LH and RH front (Refer to "Head Light and Rear Light")
44		CABLE, ether injector to ether injector mounting bolt (Black) (Part of dash HARNESS)	107		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
45	266 098 R91	CABLE, ether starting switch to start switch	108		SWITCH, lighting (Refer to "Lighting Switch")
46	622 189 C1	CABLE, master switch to "B" terminal on solenoid	109		AMMETER (Refer to "Instruments and Instrument Panel")
47	709 267 C1	CABLE, engine oil pressure switch to positive terminal of hourmeter connector (Red)	110		SWITCH, ether starting (Refer to "Starting and Ether Starting Switch")
51		CABLE, magnetic switch to regulator mounting bolt (Ground) (Part of dash HARNESS)	111	621 774 C91	LAMP, instrument panel (2)
52		CABLE, safety starting switch connector to magnetic switch (White) (Part of dash HARNESS)	112	376 852 R91 432 644	HOUSING, fuse FUSE
53		CABLE, No. 3 terminal on regulator to magnetic switch (Orange) (Part of dash HARNESS)	113		BATTERIES (Cold starting) (Refer to "Batteries and Mounting")
			114		LIGHT ASSY, rear and auxiliary (Refer to "Head Light and Rear Light")



## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC STARTING AND LIGHTING - Continued</b> (6684 and up)			Q	263 717 R91	CLAMP, on lower inside mounting hole front lamp guards (Part of ATTACHMENT, 632 690 C91) (Replaces 622 967 C1) (2)
<u>MAIN COMPONENTS - Continued</u>				24 860 R1	BOLT (2)
115		BATTERIES (Refer to "Batteries and Mounting")		25 526 R1	NUT (2)
				116 121	WASHER, lock (2)
116	621 771 C91	SWITCH, safety starting	Q	263 717 R91	CLAMP, on bottom inside mounting hole front lamp guards (Part of ATTACHMENT, 632 691 C1) (Replaces 622 967 C1) (2)
117		HOURLMETER (Refer to "Hour-meter")			
118		SWITCH, master (Refer to "Master Switch")	R		CLIP, welded
119		MOTOR ASSY, cranking (Refer to "Cranking Motor")	S	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)
<u>CLIPS AND CLAMPS</u>					
A	622 963 C1	CLIP, master switch to solenoid cable (Tapping block, LH side of front frame)	T	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)
C	363 444 R1	CLIP, dash harness (On forward two crankcase bosses - LH side) (2)			
	24 838 R1	BOLT			
	115 093	WASHER, lock	U	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)
D	363 444 R1	CLIP, dash harness (On top two inspection cover mounting bolts) (2)			
F	323 413 R1	CLIP, master switch to solenoid cable (On top two flywheel housing inspection cover mounting bolts) (2)	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 ATTACHMENT, 668 352 C91 and 668 353 C91) (2)
	25 534 R1	WASHER, flat (2)			
G		CLIP, welded			
J		CLIP, welded	W	299 609 C1	CLAMP, rear lamp cable (On LH tapped hole on rear of hydraulic tank) (Part of ATTACHMENT, 668 352 C91 and 668 353 C91)
L	363 444 R1	CLIP, safety starting switch harness (Tapping block, LH side of front frame)			
	24 838 R1	BOLT			
	115 093	WASHER, lock	X	320 180 R1	CLAMP, on lamp guard mounting bracket bolt (Part of ATTACHMENT, 632 690 C91) (2)
M	604 388 C91	CLIP, dash harness (On LH outer upper bolt of crankcase front cover)	Y	622 963 C1	CLIP, dash harness (On top LH side of torque converter rear housing)
N	616 175 C2	CLIP, battery cable and dash harness (On bottom LH side of dash)	Z	363 444 R1	CLIP, dash harness (On back of alternator pivot mounting bolt)
	25 526 R1	NUT			
	24 859 R1	BOLT			
	116 121	WASHER, lock	AB	702 093 C1	STRAP, cable support (Part of ATTACHMENT, 632 690 C91) (2)
P	311 500 R1	CLAMP, on LH-RH side of front frame below lamp guard mounting bracket (Part of ATTACHMENT, 632 690 C91) (2)			
	25 655 R1	BOLT (2)			
	115 093	WASHER, lock (2)			



## ELECTRICAL

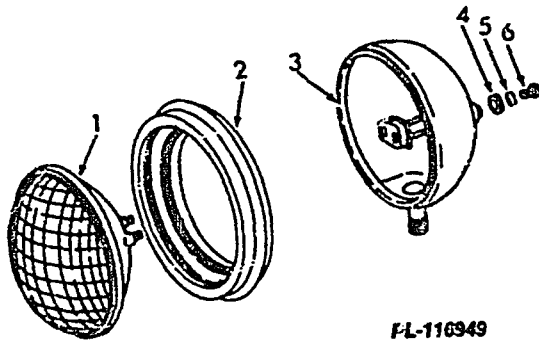
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
ELECTRIC STARTING AND LIGHTING - Continued (6684 and up)			632 691 C91 ATTACHMENT, electric lighting (For use w/Roll-Over Protective Canopy Structure and backhoe) (See NOTE 1) (Consists of -		
MISCELLANEOUS - Continued					
668 352 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/ Roll-over Protective Canopy Structure w/o backhoe) (See NOTE 3) (Consists of -			
	2	BOLT 20 288 R1		1	BOLT 24 859 R1
	1	BOLT 20 654 R1		1	BOLT 211 216 R1
	1	BOLT 179 890		3	BOLT 236 485
	1	BRACKET 709 314 C1		8	BOLT 454 998
	1	CABLE 621 844 C1		4	BOLT 455 000
	3	CLAMP 311 500 R1		2	BRACKET 621 837 C1
	2	CLAMP 320 180 R1		1	CABLE 709 063 C1
	3	CLAMP 299 609 C1		2	CLAMP 263 717 R91
	1	LAMP 625 657 C91		3	CLIP 299 609 C1
	4	NUT 102 637 R1		1	GROMMET 63 323 D
	1	NUT 120 378		1	GROMMET 617 259 C1
	1	SWIVEL 303 706 R1		3	GUARD 668 262 C1
	3	WASHER 25 673 R1		1	HARNESS 621 838 C1
	1	WASHER 118 975		3	LAMP 625 657 C91
	1	WASHER 120 384 )		11	NUT 21 330 R1
				1	NUT 25 526 R1
				1	PLATE 668 294 C1
				3	SWIVEL 303 706 R1
				3	WASHER 25 645 R1
				1	WASHER 116 121
				7	WASHER 120 384
				3	WASHER 138 530
				9	WASHER 180 447 )
668 353 C91		ATTACHMENT, electric lighting auxiliary RH rear (For use w/ Roll-Over Protective Canopy Structure and backhoe) (See NOTE 3) (Consists of -	706 412 C91		ATTACHMENT, electric rear light (For use w/rear screen) (See NOTE 3) (Consists of -
	1	BOLT 20 654 R1		1	LAMP 668 292 C91
	4	BOLT 179 881		1	NUT 21 330 R1
	1	BOLT 179 890		1	WASHER 120 384 )
	1	CABLE 621 844 C1			
	3	CLAMP 311 500 R1	109 941		CORK, No. 5 head lamp guard mount- ing hole (On radiator guard) (Not used on models equipped w/head- lights) (4)
	2	CLAMP 320 180 R1			
	3	CLIP 299 609 C1	106 623		CORK, No. 8 front lamp cable grommet hole (On radiator guard) (Not used on models equipped w/ headlights) (2)
	1	GUARD 668 262 C1			
	1	LAMP 625 657 C91			
	2	NUT 102 637			
	1	NUT 120 378			
	1	PLATE 668 294 C1			
	1	SWIVEL 303 706 R1			
	1	WASHER 25 673			
	5	WASHER 118 975			
	1	WASHER 120 384 )			

## ELECTRICAL

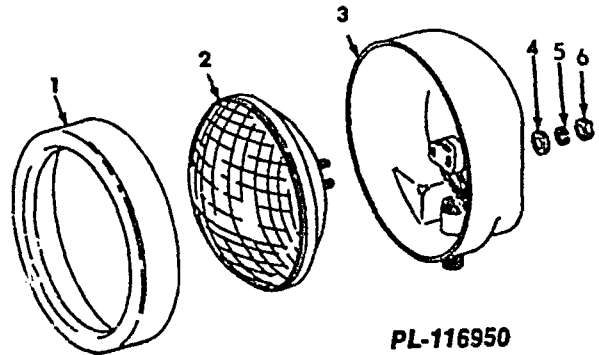
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### HEADLIGHT AND REAR LIGHT

### HEADLIGHT AND REAR LIGHT



FL-116949



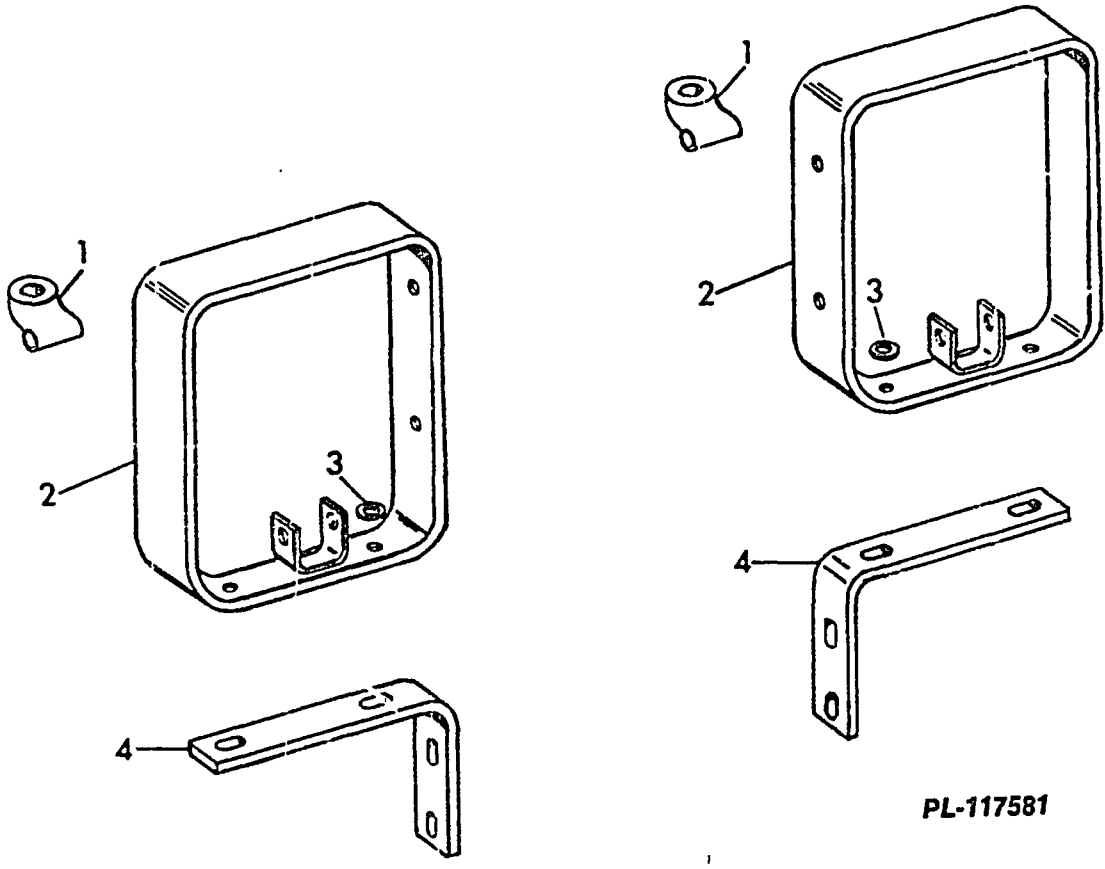
PL-116950

A	668 292 C1 21 330 R1 120 384	LIGHT ASSY., rear (Part of ATTACHMENT, 706 412 C91) NUT WASHER, lock	A	621 327 C91  21 330 R1 120 294	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) NUT (3) WASHER, lock (3)	
B	625 657 C91  21 330 R1 120 384	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) NUT (3) WASHER, lock (3)	B	621 827 C91  120 378 120 384	LIGHT ASSY., RH near auxiliary (Part of ATTACHMENT, 668 352 C91 and 668 353 C91) (Optional w/625 657 C91) NUT WASHER, lock (Composed of -	
C	625 657 C91  120 378 120 384	LIGHT ASSY., RH rear auxiliary (Part of ATTACHMENT 668 352 C91 and 668 353 C91) (Optional w/LIGHT, 621 827 C91) NUT WASHER, lock (Composed of -	1	676 078 R1	RETAINER, light	
	1	27 133 R1	UNIT, sealed (12 volt) (A)	2	373 362 R91	UNIT, sealed (12 volt) (Replaces 21 521 R1)
	1	373 662 R91	UNIT, sealed (12 volt) (B and C) (Replaces 21 521 R1)	3	\$	BODY
	2	631 595 C1	RETAINER, sealed unit (A)	4	\$	WASHER, lock
	2	625 679 C1	RETAINER, sealed unit (B and C)	5	138 530	WASHER, lock (Not Part of LIGHT ASSY)
	3	\$	BODY	6	\$	NUT
	4	\$	WASHER, lock			
	5	138 530	WASHER, lock (Not Part of LIGHT ASSY)			
	6	\$	SCREW			

## 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)

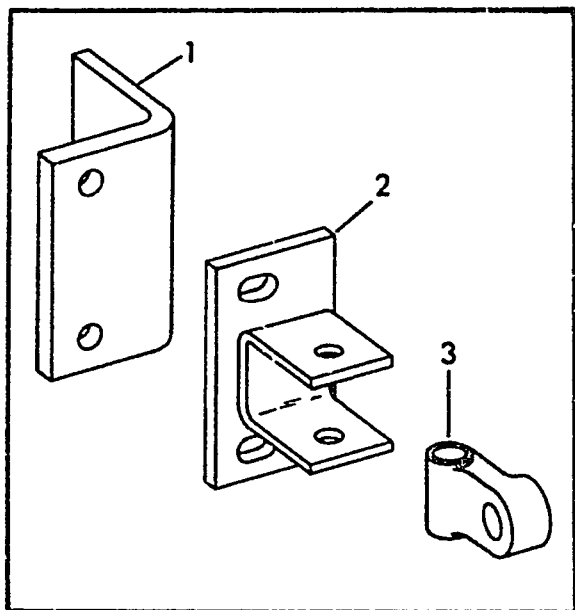


**PL-117581**

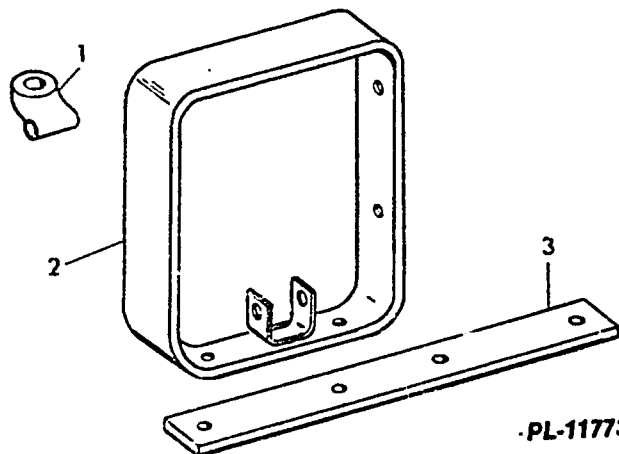
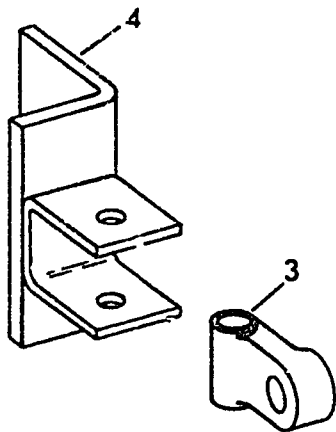
1	303 706 R1 236 485 R1 21 330 R1 180 447	SWIVEL, lamp (2) BOLT (2) NUT (2) WASHER, lock (2)	3	25 645 R1	WASHER, flat (For CLIP, 622 967 C1) (Part of ATTACHMENT, 632 691 C91 only) (2)
2	668 262 C1 454 998 21 330 R1 180 447	GUARD, lamp (2) BOLT (4) NUT (4) WASHER, lock (4)	4	621 837 C1 455 000 120 384	BRACKET, front lamp (2) BOLT (4) WASHER, lock (4)

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>L.H. REAR LAMP MOUNTING</b> (Part of ATTACHMENT 632 690 C91)					
2	651 948 C1	BRACKET, rear lamp mounting			6794 and below
	20 834 R1	BOLT (2)			
	541 437 R1	WASHER (2)			
3	303 706 R1	SWIVEL, lamp			
	236 485 R1	BOLT			
	21 330 R1	NUT			
	180 447	WASHER, lock			
4	709 314 C1	BRACKET, rear lamp mounting			6795 and up
	21 329 R1	BOLT (2)			
	21 330 R1	NUT (2)			
	25 645 R1	WASHER (2)			



### L.H. REAR LAMP GUARD (Part of ATTACHMENT 632 691 C91)



**PL-117733**

**PL-117734**

1	668 450 C1	BRACKET, rear lamp mounting	6794 and below
	20 288 R1	BOLT (2)	
	102 637 R1	NUT (2)	
	25 673 R1	WASHER (2)	

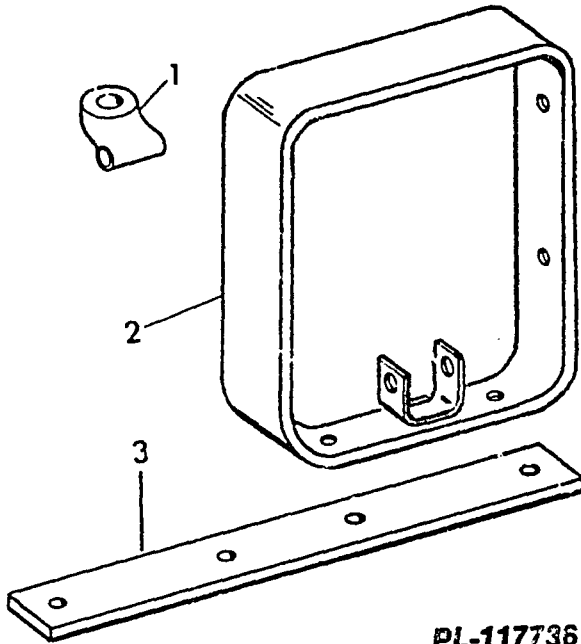
1	303 706 R1	SWIVEL, lamp	
	236 485 R1	BOLT	
	21 330 R1	NUT	
	180 447	WASHER, lock	
2	668 262 C1	GUARD, lamp	BOLT (2)
	454 998		
3	668 294 C1	PLATE, rear lamp mounting	BOLT (2)
	454 998		WASHER (2)
	180 447		

## ELECTRICAL

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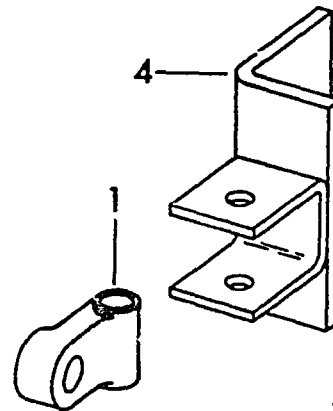
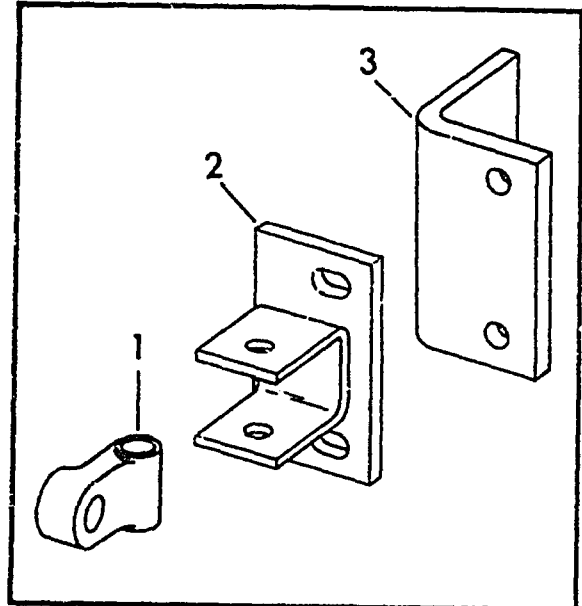
**R.H. REAR LAMP GUARD**  
(Part of ATTACHMENT 668 353 C91)



**PL-117736**

- |   |   |   |
|---|---|---|
| 1 | 303 706 R1<br>179 890<br>102 637<br>118 975 | SWIVEL, lamp<br>BOLT<br>NUT<br>WASHER, lock               |
| 2 | 668 262 C1<br>179 881<br>118 975            | GUARD, lamp<br>BOLT (2)<br>WASHER, lock (2)               |
| 3 | 668 294 C1<br>179 881<br>118 975            | PLATE, rear lamp mounting<br>BOLT (2)<br>WASHER, lock (2) |
|   | 706 045                                     |   |

**RH REAR LAMP MOUNTING**  
(Part of ATTACHMENT 668 352 C91)



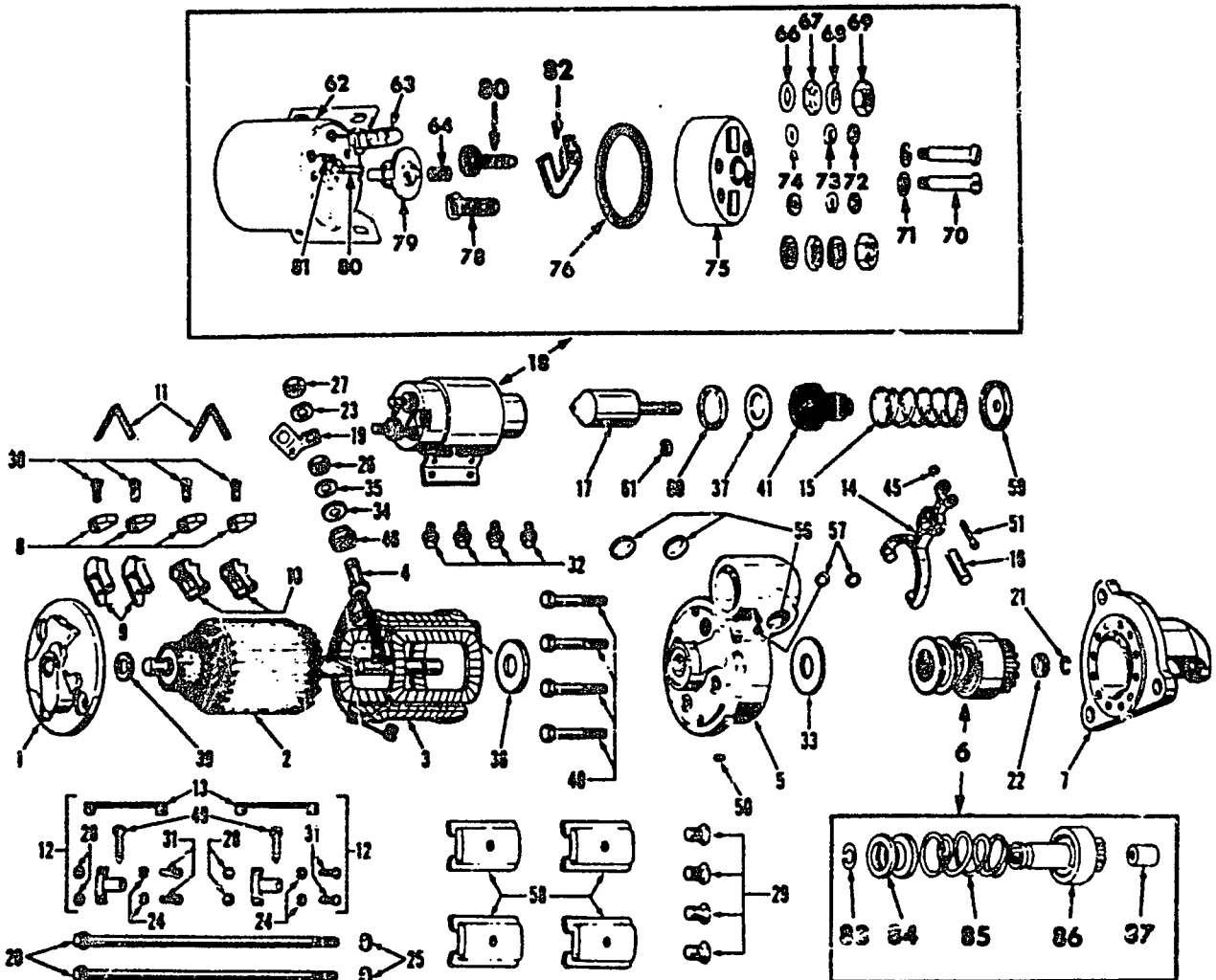
**PL-117735**

- |   |  |  |
|---|--|--|
| 1 | 303 706 R1<br>179 890<br>102 637<br>118 975            | SWIVEL, lamp<br>BOLT<br>NUT<br>WASHER, lock  |
| 2 | 651 948 C1<br><br>20 834 R1<br>541 437 R1              | BRACKET, near lamp mounting<br>8794 and below<br>BOLT (2)<br>WASHER (2)            |
| 3 | 668 456 C1<br><br>20 288 R1<br>102 637 R1<br>25 673 R1 | BRACKET, rear lamp mounting<br>8794 and below<br>BOLT (2)<br>NUT (2)<br>WASHER (2) |
| 4 | 709 314 C1<br><br>20 288 R1<br>102 637 R1<br>25 673 R1 | BRACKET, rear lamp mounting<br>6795 and up<br>BOLT (2)<br>NUT (2)<br>WASHER (2)    |

## ELECTRICAL

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



CE-94872

1	1 113 690	MOTOR ASSY., cranking (12 volts) (Always Give Cranking Motor Assy. Number When Ordering Parts) SCREW, hex-hd cap (3) WASHER, lock (3) (Composed of -	5	1 942 241	HOUSING ASSY., lever (Composed of -	1 933 999
	1 404 83 H	SCREW, hex-hd cap (3)			1 BUSHING	9 418 572
	115 093	WASHER, lock (3)			2 PLUG	9 427 882
		(Composed of -			1 PLUG	453 465
					1 WICK	1 947 350 )
1	1 945 517	FRAME ASSY., commutator end	6	1 877 355	DRIVE ASSY., motor	
2	1 967 045	ARMATURE	7	1 947 803	HOUSING w/PLUG, 9 427 882 and WICK, 1 916 439, drive	
3	1 946 386	COIL w/STUD, 1 933 879, field (four coils)	8	1 906 987	BRUSH (4)	
4	1 933 879	STUD, terminal	9	1 940 477	HOLDER, brush ground (2)	



## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
CRANKING MOTOR - Continued			39	1 914 842	WASHER, spacer, commutator end
			40	122 077	BOLT, drive housing attaching (4)
10	1 950 546	HOLDER, brush insulated (2)	41	801 077	BOOT
11	1 945 620	SPRING, brush (2)	45	1 938 376	RING, lever attaching pin snap
12	1 945 923	PACKAGE, brush support (2) (Consists of -	46	1 931 783	BUSHING, insulating terminal stud
	1 LEAD	1 930 694	49	1 938 058	PIN, brush holder (2)
	2 NUT	120 361	50	809 593	PIN, dowel, drive housing
	1 PIN	1 938 058	51	1 942 253	PIN, lever attaching
	2 SCREW	445 639			
	2 WASHER	453 435 )			
13	1 930 694	LEAD, ground (2)	56	9 411 375	PLUG, expansion, lever housing (1-3/16" dia) (2)
14	1 942 245	LEVER, shift	57	9 419 572	PLUG, expansion lever housing (1/2" dia) (2)
15	1 948 521	SPRING, lever	58	1 934 478	SHOE, pole (4)
16	1 942 255	SHAFT, lever	59	1 948 526	RETAINER, spring (13/32" hole)
17	1 942 250	FLUNGER	60	1 942 256	RETAINER, spring (1-13/64" hole)
18	1 115 510	SWITCH ASSY., solenoid starting	61	9 415 235	RING, spring retainer snap
19	1 946 394	CONNECTOR, switch	62		CASE and COIL (Not Furnished Separately)
20	1 883 865	BOLT, thru (2)	63	1 956 427	STUD, motor terminal
21	1 928 022	RING, pinion stop retainer	64	1 853 342	SPRING, contact return
22	1 926 021	COLLAR, pinion stop	66	805 790	WASHER, insulating terminal (2)
23	9 421 425	WASHER, lock, terminal stud	67	1 904 419	NUT, terminal (2)
24	453 435	WASHER, lock (4)	68	9 421 425	WASHER, terminal lock (2)
25	9 421 424	WASHER, thru bolt lock (2)	69	134 566	NUT, terminal (2)
26	805 258	NUT, terminal stud (5/32" thick)	70	1 943 225	SCREW, cover attaching (2)
27	134 566	NUT, terminal stud (5/32" thick)	71	1 923 935	WASHER, cover attaching screw (2)
28	120 361	NUT (4)	72	453 996	NUT, No. 8 hex terminal (2)
29	1 968 396	SCREW, pole shoe (4)	72	453 284	NUT, No. 10 NF (2)
30	1 959 514	SCREW, brush attaching (4)	73	1 946 143	WASHER, No. 8 terminal lock
31	445 639	SCREW (4)	73	453 435	WASHER, No. 10 lock
32	1 917 084	SCREW, switch attaching (4)	74	1 950 071	WASHER, insulating
33	821 453	WASHER, brake (Between lever housing and motor drive)	74	1 950 063	WASHER, insulating
34	1 950 029	WASHER, insulating terminal stud (2)	75	1 965 624	COVER
35	805 790	WASHER, terminal stud plain	76	1 965 625	GASKET, cover
36	1 946 395	WASHER, space (Between lever housing and armature)	78	800 487	STUD, battery terminal
37	1 942 259	WASHER, retainer spring	79	1 917 119	CONTACT and ROD

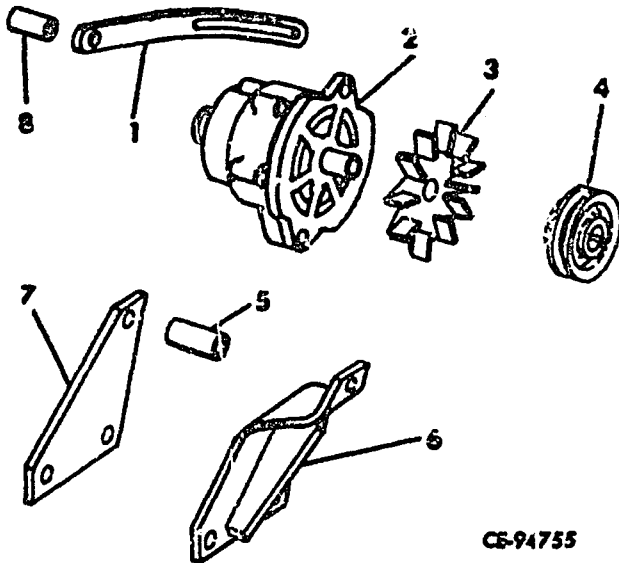
# ELECTRICAL

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

## ELECTRICAL

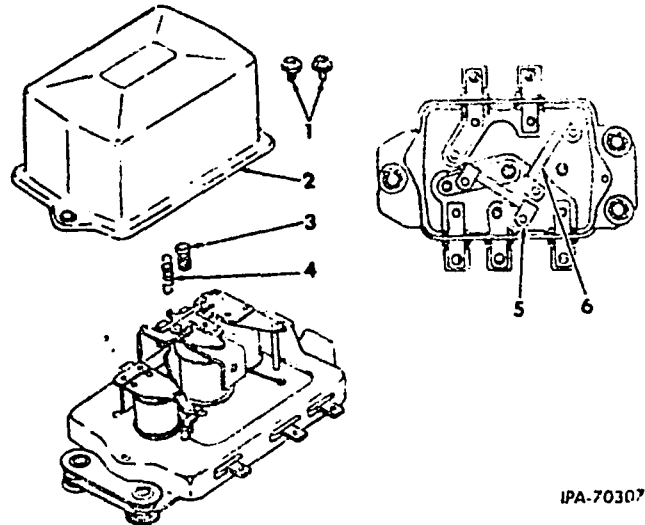
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### ALTERNATOR AND CONNECTIONS



1	621 754 C1	BRACE, alternator
2	ALTERNATOR ASSY, (Refer to "Alternator")	
	24 847 R1	SCREW, 3/8" dia. hex-hd cap
	25 708 R1	WASHER, 3/8 flat
	17 044	NUT
	25 751 R1	SCREW, 5/16" dia. hex-hd cap
	25 708 R1	WASHER, 5/16" flat (2)
3	221 425 R1	FAN, alternator
4	273 226 R1	PULLEY, alternator
5	621 769 C1	SPACER, alternator support
6	621 765 C1	BRACKET, alternator front
	277 232 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

### VOLTAGE REGULATOR

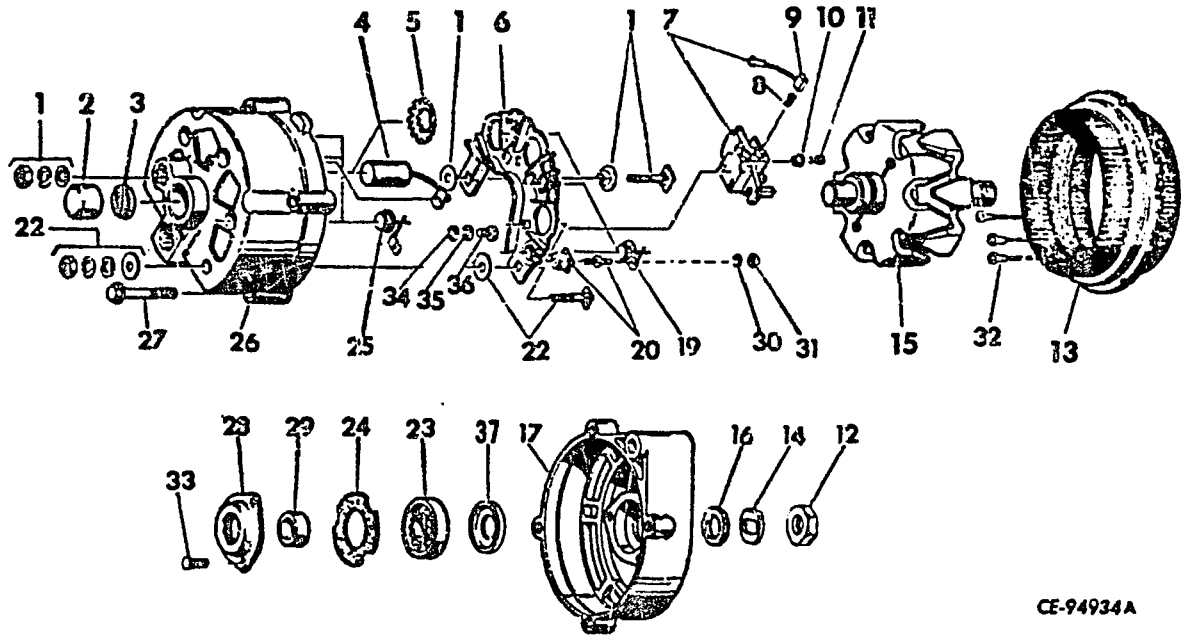


1	1 119 513	REGULATOR w/PACKAGE, 1 962 629 and REGULATOR ASSY 1 119 507, voltage (Always Give Voltage Regulator Assy Number When Ordering Parts)
	453 049	SCREW, slit-pan-hd (2)
	120 423	WASHER, int-tooth lock
	120 380	WASHER, lock (2)
1	1 119 507	REGULATOR ASSY., voltage (Consists of ref. nos. 1 thru 6) (Furnished as part of REGULATOR 1 119 513)
1	1 943 386	SCREW, cover attaching (2)
2	1 958 151	COVER, regulator
3	1 958 148	SCREW, adjusting
4	1 958 137	SPRING, adjusting screw
5	1 941 431	RESISTOR
6	1 960 347	RESISTOR
	1 962 629	PACKAGE, shock bracket
	9 421 423	WASHER, terminal screw lock

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### ALTERNATOR



CE-94934A

	1 100 812	ALTERNATOR ASSY (12 volt - 22 Amp.) (Always Give Alternator Assy Number When Ordering Parts) (Composed of -		12 1 915 172	NUT, drive end shaft
				13 1 959 381	STATOR ASSY., w/three CLIP, 1 959 532
1	1 959 833	PACKAGE, ground terminal	14	1 941 978	WASHER, shaft nut drive end lock
2	7 451 763	BEARING, slip ring end	15	1 966 614	ROTOR ASSY
3	1 959 790	SEAL, slip ring end	16	1 959 991	COLLAR
4	1 959 455 1 959 523	CAPACITOR WASHER, capacitor screw insulator	17	1 970 595	F FRAME, drive end
5	1 960 750	RETAINER, capacitor retaining	19	1 964 353	DIODE, positive (3)
6	1 959 828	HEAT SINK ASSY (Composed of -	20	1 959 834	PACKAGE, terminal
		3 DIODE 1 964 353	22	1 959 832	PACKAGE, battery terminal
		1 NUT 453 434	23	908 019	BEARING, drive end
		1 TERMINAL PACKAGE 1 959 834	24	1 912 008	GASKET
		1 WASHER 9 419 392 )	25	1 964 354	DIODE, negative (3)
7	1 964 682	BRUSH HOLDER and BRUSH ASSY	26	800 396	FRAME, slip ring - end (Composed of -
8	1 964 117	SPRING			1 BEARING 7 541 763
9		BRUSH (Not Furnished Separately)			3 DIODE 1 964 354
10	1 959 389	INSULATOR, brush holder - screw			1 RETAINER 1 960 750
11	1 957 501 9 419 392	SCREW, brush holder WASHER, spring, brush holder attaching screw			1 SEAL 1 959 790

## ELECTRICAL

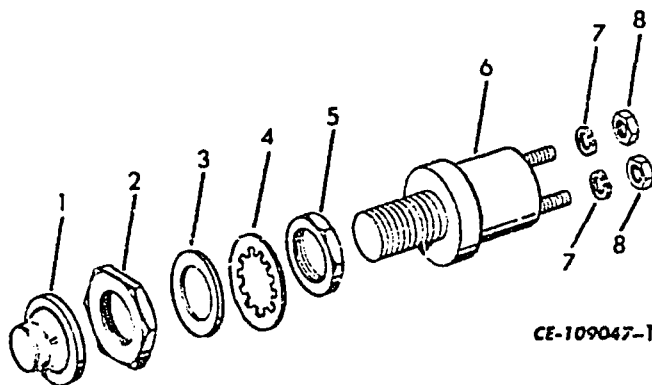
REF. NO.	PART NUMBER	DESCRIPTION
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### ALTERNATOR - Continued

27	1 956 975	BOLT (4)
28	1 955 494	RETAINER
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)
34	815 540	WASHER, plain capacitor terminal screw
35	9 419 392	WASHER, capacitor terminal screw lock
36	132 768	SCREW, capacitor terminal
37	800 832	SLINGER, grease
	1 970 033	SEAL, slip ring end terminal

REF. NO.	PART NUMBER	DESCRIPTION
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### STARTING AND EITHER STARTING SWITCH (6538 and up)

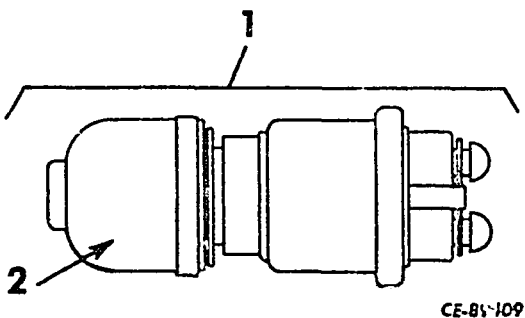


453 453 C1 SWITCH (Service Parts Not Available)

or  
1 996 098 SWITCH ASSY.,  
(Consists of the following parts —

1		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	120 217	WASHER, terminal lock (2)
8	453 284	NUT, terminal hex (2)

### STARTING AND EITHER STARTING SWITCH (6537 and below)

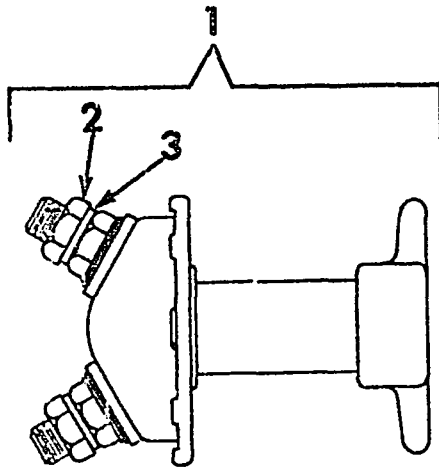


1	700 395 C91	SWITCH ASSY, w/CAP and face NUT, 702 268 C1) (2)
2	702 268 C1	CAP and FACE NUT

## ELECTRICAL

REF. NO.	PART NUMBER	DESCRIPTION
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### MASTER SWITCH

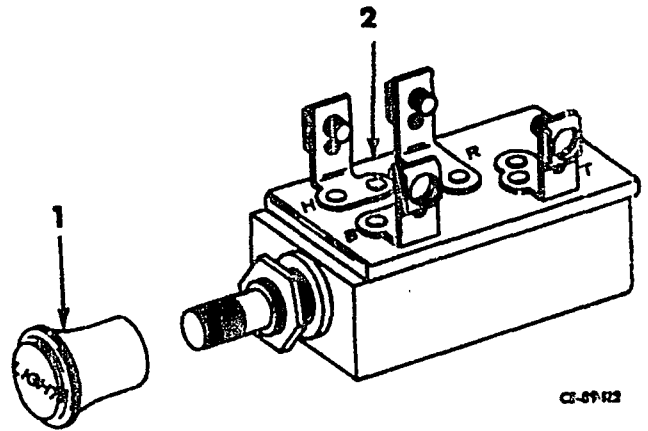


CE-99944

- |   |   |   |
|---|---|---|
| 1 | 728 154 C1<br>25 519 R1<br>25 222 R1<br>115 109 | SWITCH ASSY, master<br>NUT (2)<br>SCREW, hex-hd cap (2)<br>WASHER, lock (2) |
| 2 | S   | NUT, terminal (2)   |
| 3 | S   | WASHER, terminal nut lock (2)   |

REF. NO.	PART NUMBER	DESCRIPTION
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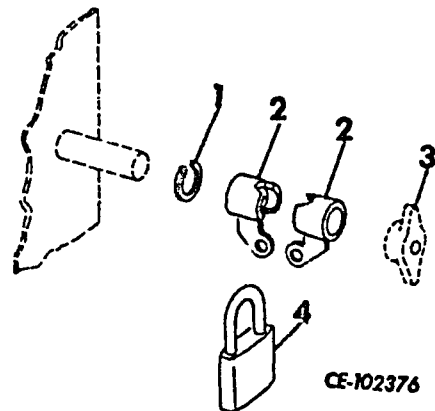
### LIGHTING SWITCH



CE-59123

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

### MASTER SWITCH LOCK AND PADLOCK WITH KEYS



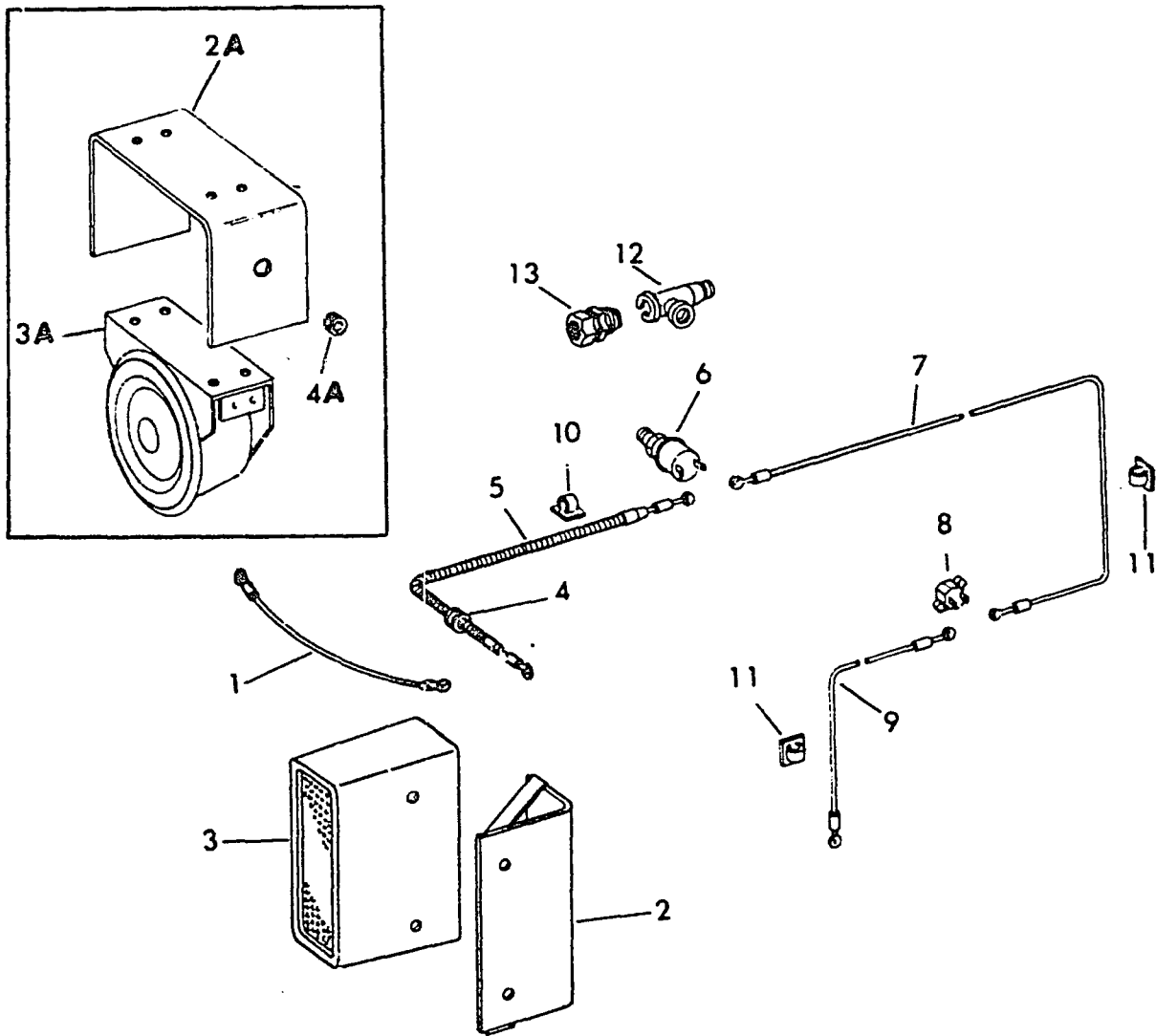
CE-102376

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

## 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	737 188 C1	ALARM, back-up (Used w/BRACKET 740 293 C1) (Replaces 715 662 C1)
					OR	
1	298 770 R91	CABLE, alarm to alarm mounting bolt		3	736 131 C1	ALARM, back-up (Used w/BRACKET 740 293 C1)
					27 606 R1	BOLT (2)
					25 534 R1	WASHER, flat (2)
2	740 293 C1	BRACKET, alarm mounting (Used w/ALARM, 715 662 C1)		3A	663 478 C1	ALARM, back-up (Used w/GUARD 663 484 C1)
	455 000	BOLT (2)			179 795	BOLT (4)
	21 330 R1	NUT (2)			109 084	NUT (4)
	25 710 R1	WASHER, hardened (4)			120 392	WASHER, flat (8)
2A	663 484 C1	GUARD, assembly alarm (Used w/ALARM, 663 478 C1)			103 319	WASHER, lock (4)

## ELECTRICAL

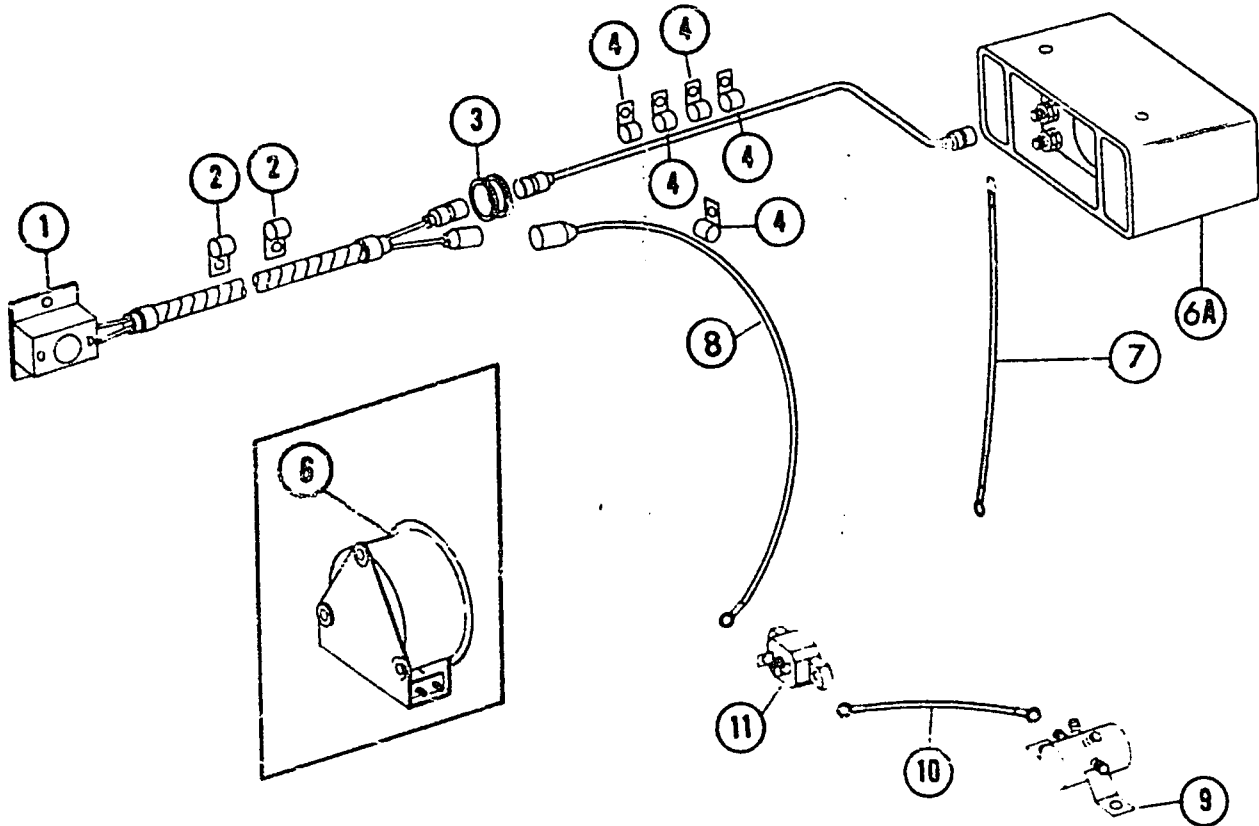
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>BACK-UP ALARM - Continued</b>					
4	109 390	GROMMET (On battery box) (Used w/BRACKET, 740 293 C1)			
4A	108 827 R1	GROMMET (On RH side of alarm guard) (Used w/GUARD 663 494 C1)			
5	663 186 C1	CABLE, alarm to pressure switch			
6	740 985 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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## ELECTRICAL WARNING HORN



CE-105841A

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

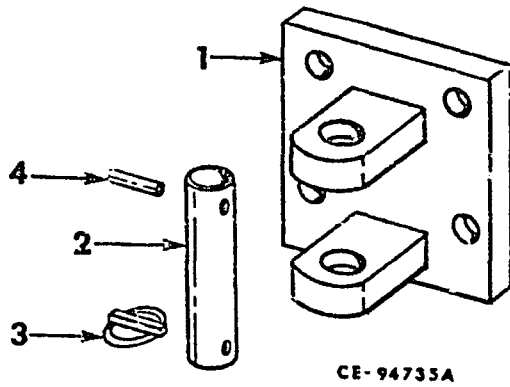
**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**



# FRAME

REF. NO.	PART NUMBER	DESCRIPTION
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## RIGID DRAWBAR

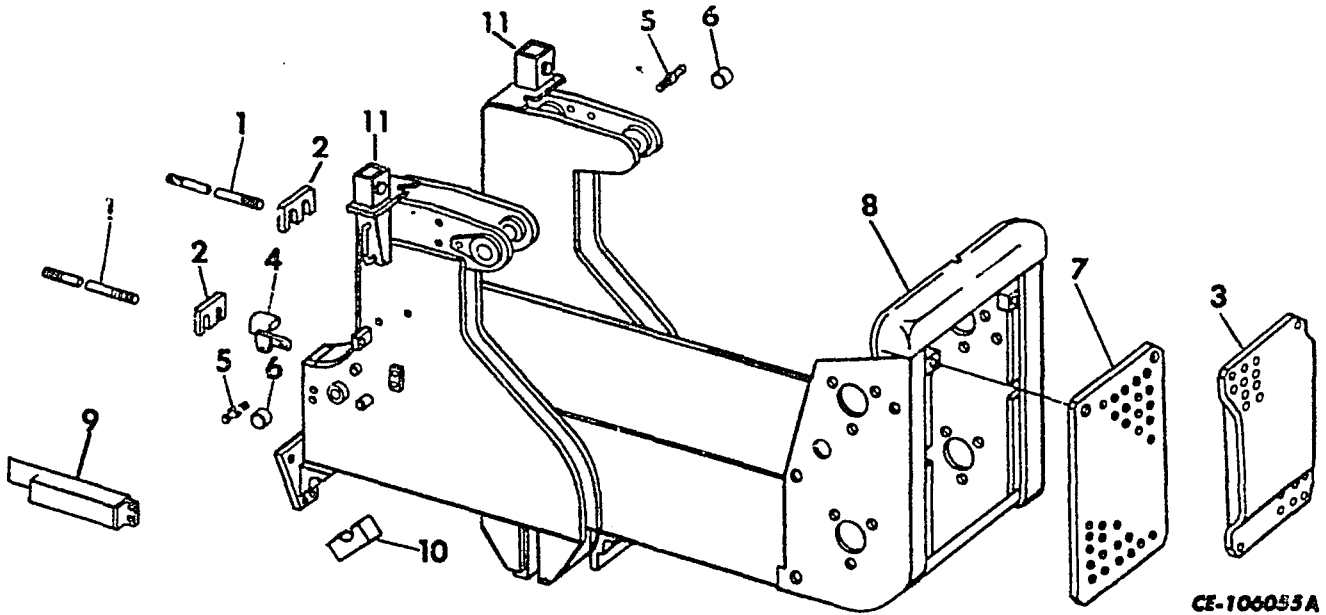


- |   |                         |  |
|---|-------------------------|--|
|   | 622 618 C91             | ATTACHMENT, rigid drawbar (For all models equipped w/Ripper)<br>(See NOTE 1)<br>(Consists of - |
| 1 | 621 018 C1<br>25 515 R1 | DRAWBAR<br>BOLT (4)  |
| 2 | 621 005 C1              | PIN, drawbar clevis  |
| 3 | 621 006 C1              | PIN, quick attaching   |
| 4 | 19 998 R1               | PIN, coiled spring   |

## FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### FRONT FRAME

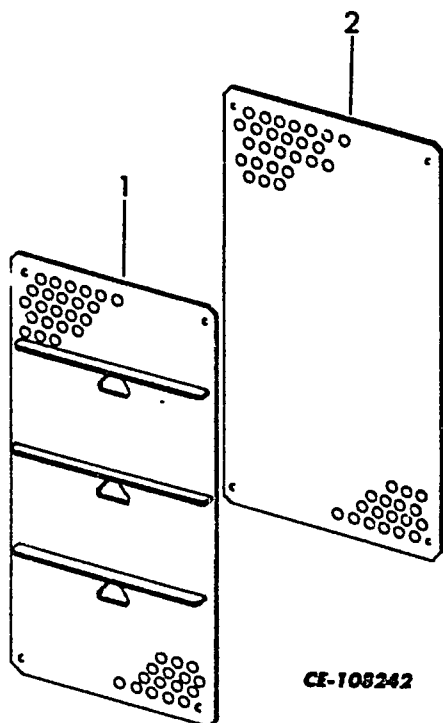


1	620 869 C1 341 811 R1 25 762 R1 717 704 C1	BAR, tie (2) (Not used w/Counterweight) WASHER, flat (2) NUT (2) NUT, tie bolt (2)	8		
2	621 893 C1	SHIM, tie bar (.060") (X)			FRAME w/two BUSHING, 620 751 C1, and two CAPS, carrying (Service frame will be available on special order only on clearance with engineering department)
2	621 894 C1	SHIM, tie bar (.030") (X)		25 965 R1	
2	652 379 C1	SHIM, tie bar (.016") (X)		25 760 R1 26 121 R1	
3	645 267 C1	DOOR, radiator guard (For backhoe models) (Part of ATTACHMENT, 710 271 C91)		622 015 C1 277 606 R1 25 530 R1	BOLT, 4-3/4" long (2) SCREW, 5" long hex-hd cap (2) WASHER, hardened (10) NUT (2)
4	622 012 C1	STEP - RH, carrying frame	9	622 641 C2 24 861 R1 24 860 R1 116 121 103 343	GUARD, hydraulic tube SCREW, 4-1/4" long hex-hd cap SCREW, 1" long hex-hd cap (2) WASHER, lock (3) WASHER, flat (3)
4	622 011 C1 24 862 R1 116 121 103 343	STEP - LH, carrying frame SCREW, hex-hd cap (2) WASHER, lock (2) WASHER, flat (2)			
5	109 461	FITTING, bushing lube (2)			
6	620 751 C1	BUSHING (2)		25 911 R1 232 361 R1	CAP, rear bar mounting (Order PACKAGE, 628 488 C91) (2) SCREW, hex-hd cap (4) WASHER (4)
7	621 616 C1 26 316 R1 25 710 R1	DOOR, radiator guard (For all models except backhoe) SCREW, hex-hd cap (4) WASHER (4)	11	667 170 C1	SOCKET ASSY., (2)
				628 488 C91	PACKAGE, rear bar mounting cap service (Consists of one CAP and eight SHIM)

## FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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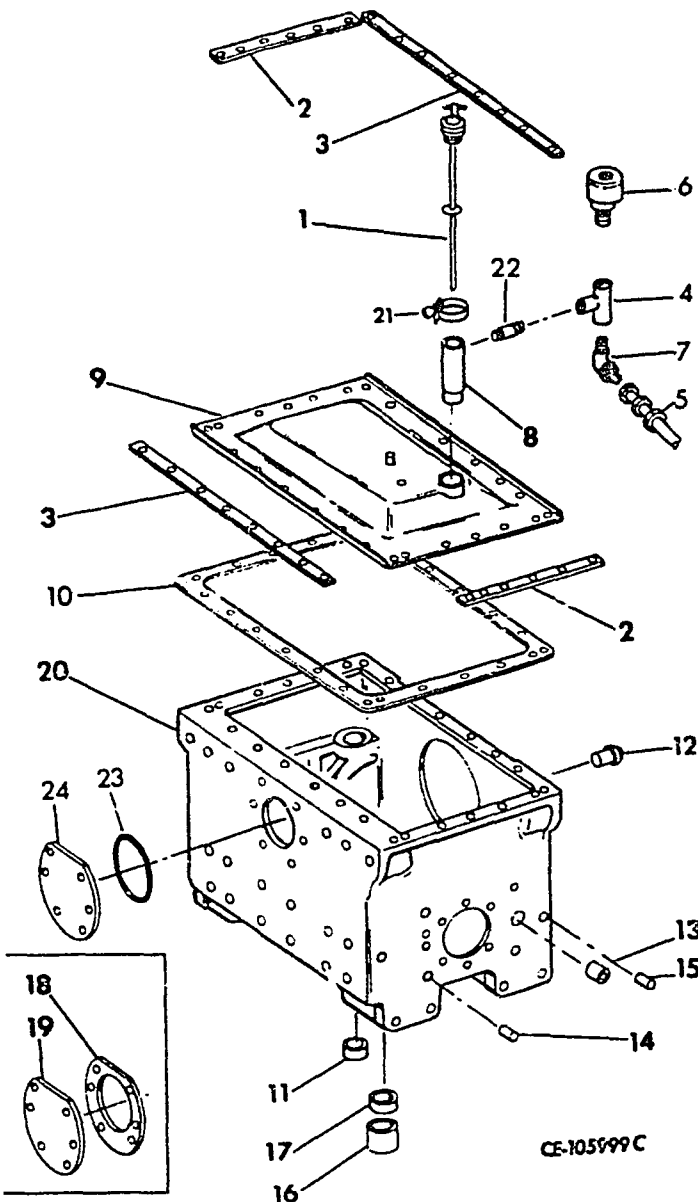
### HEAVY DUTY RADIATOR DOOR



- |   |             |  |
|---|-------------|--|
|   | 706 089 C91 | ATTACHMENT, heavy duty radiator door (Part of forestry package, 632 764 C92 (See NOTE 1) |
| 1 | 706 057 C91 | DOOR, w/plate, 706 058 C1, heavy duty radiator   |
|   | 24 861 R1   | SCREW, hex-hd cap (4)  |
| 2 | 706 058 C1  | PLATE, rad. door lap   |

## FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>REAR MAIN FRAME</b>					
6	662 250 C1	BREATHER, rear frame	6	666 156 C1	BREATHER, rear frame
6	666 134 C1	BREATHER, rear frame	7		ELBOW, transmission vent tube to tee (Refer to "Transmission Piping")
8	628 071 C2	TUBE, rear main frame oil filler	9	621 565 C2	COVER, rear main frame
9	24 841 R1	SCREW, hex-hd cap (26)	10	717 260 C1	GASKET, rear main frame cover
9	25 534 R1	WASHER, hardened (26)	11	621 090 C91	BEARING, eccentric shaft (4)
10	717 260 C1	GASKET, rear main frame cover	12	621 548 C2	TUBE, brake rod
11	621 090 C91	BEARING, eccentric shaft (4)	13	621 549 C1	INSERT, brake adjusting screw (2)
12	621 548 C2	TUBE, brake rod	14	621 546 C1	DOWEL, brake shoe (8)
13	621 549 C1	INSERT, brake adjusting screw (2)	15	621 547 C1	DOWEL, sprocket drive (4)
14	621 546 C1	DOWEL, brake shoe (8)	16	271 647 R1	PLUG, drain
15	621 547 C1	DOWEL, sprocket drive (4)	17	613 908 C1	PLUG, 2" NPTF
16	271 647 R1	PLUG, drain	18	621 571 C1	GASKET, rear P.T.O. (Used w/ COVER, 621 570 C1 only)
17	613 908 C1	PLUG, 2" NPTF	19	621 570 C1	COVER, rear P.T.O. (Order COVER, 733 040 C1, RING 259 190 R1 and six BOLT, 26 957 R1)
18	621 571 C1	GASKET, rear P.T.O. (Used w/ COVER, 621 570 C1 only)	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 )
19	621 570 C1	COVER, rear P.T.O. (Order COVER, 733 040 C1, RING 259 190 R1 and six BOLT, 26 957 R1)	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 271 647 R1 4 PLUG 613 908 C1 1 TUBE 621 548 C2 )
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 )	21	623 761 C1	CLAMP, rear main frame oil level gauge lock (Used w/GAUGE, 652 445 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 271 647 R1 4 PLUG 613 908 C1 1 TUBE 621 548 C2 )		104 942	CORK, No. 6 (8)
1	621 569 C2	GAUGE, rear main frame oil level (Not for use w/lock)		117 926	CORK, No. 12 (4)
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")			



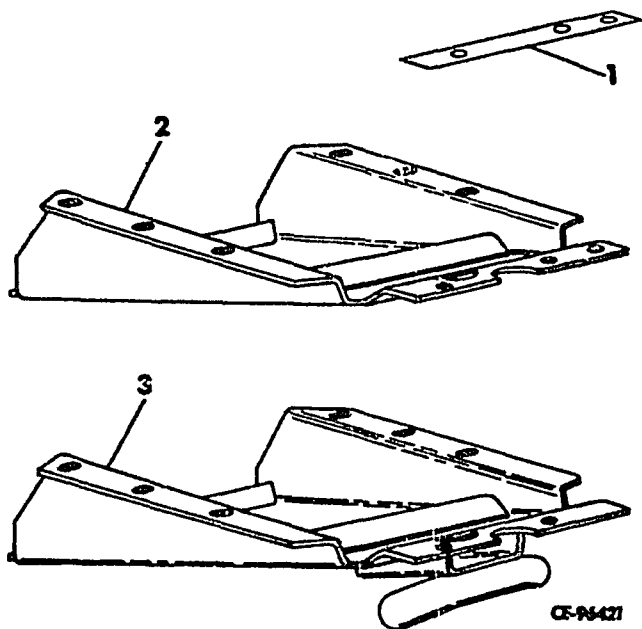
## FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
REAR MAIN FRAME (Continued)					
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 (6)			

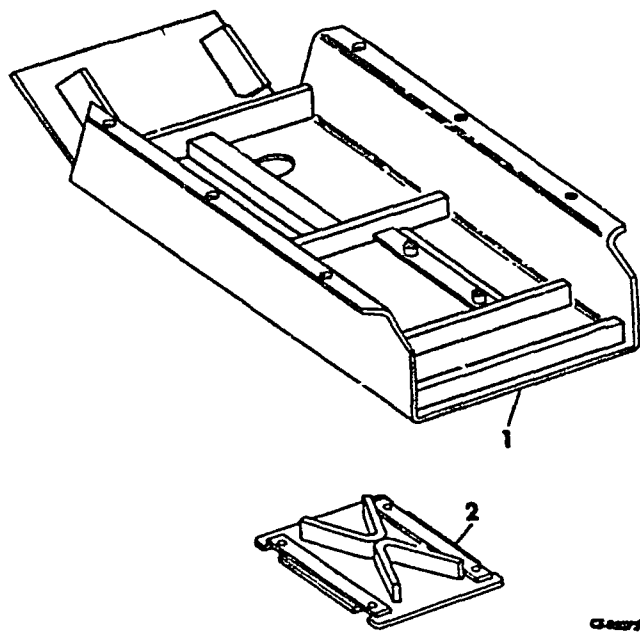
## FRAME

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### CRANKCASE GUARDS



### TRANSMISSION GUARD



1	621 691 C1	SHIM, crankcase guard front (Part of ATTACHMENT, 622 854 C92)
2	621 675 C2 24 861 R1 25 546 R1	GUARD, crankcase SCREW, hex-hd cap (9) WASHER, hardened (9)
3	621 670 C2  24 861 R1 25 546 R1	GUARD w/pull hook, crankcase (Part of ATTACHMENT, 622 854 C92) SCREW, hex-hd cap (9) WASHER, hardened (9)
	622 854 C92	ATTACHMENT, crankcase guard w/Pull Hook (Consists of SHIM, 621 691 C1 and GUARD, 621 670 C2) (See NOTE 3)

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)

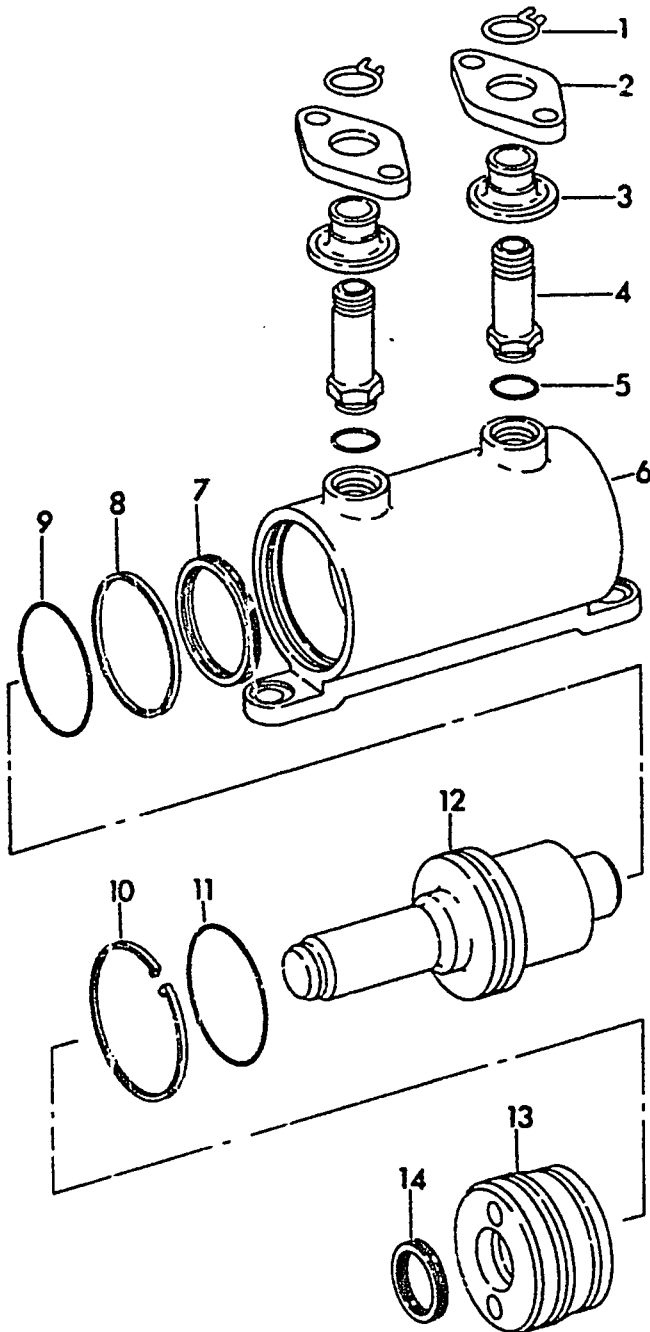


**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**

**HYDRAULICS 10**

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>STEERING CYLINDERS AND PISTONS</b>			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 seal guard (Order PACKAGE, 622 827 C91) (2)
			8		RING, piston seal (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 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)			
	9 413 979	NUT (8)			
	25 534 R1	WASHER, hardened (8)			

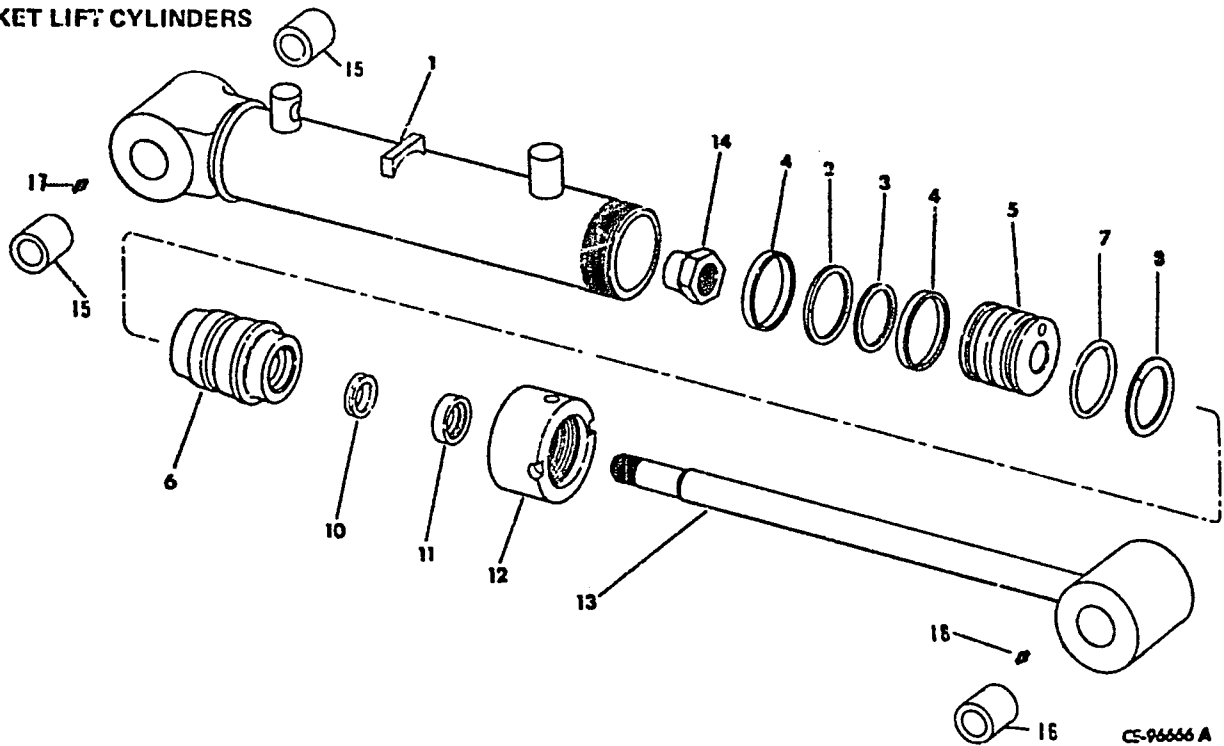


CE-105851

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### BUCKET LIFT CYLINDERS

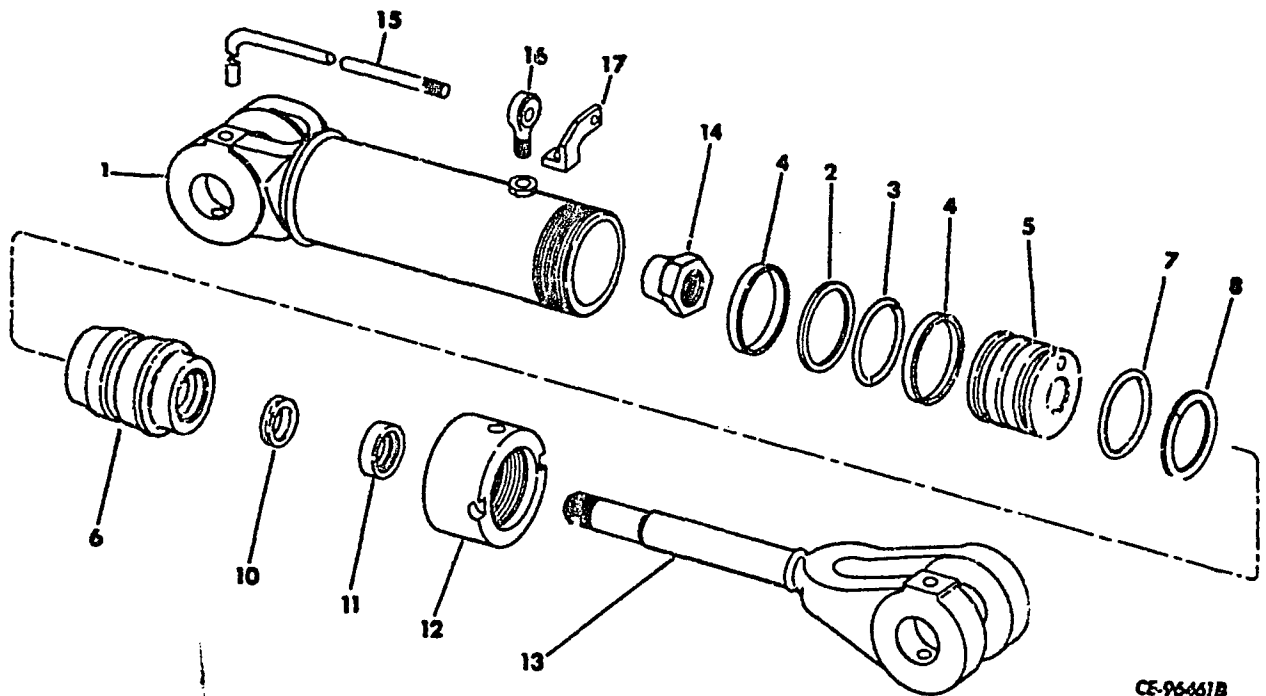


	620 799 C92	CYLINDER, hydraulic lift (2)	11		SEAL, wiper (Order PACKAGE, 626 233 C2)
	663 997 C1	FIN, head end locking (2)			
	24 861 R1	SCREW, 1/2" dia. hex-hd cap (2)	12	381 111 R1	RING, retainer
	116 121	WASHER, lock (2)			
	357 020	WASHER, flat (2)			
	620 819 C1	PIN, rod end mounting (2)	13	620 804 C1	ROD w/BUSHING, 620 803 C1, piston
	70 428 R1	SCREW, 7/16" dia. hex-hd cap (2)			
	9 413 981	NUT, 7/16" Stover lock (2)	14	25 127 R1	NUT, piston rod lock
		(Composed of -			
1	620 800 C91	HOUSING w/two BUSHING, 620 751 C1, cylinder	15	620 751 C1	BUSHING, cylinder (2)
2		RING, seal (Order PACKAGE, 626 233 C2)	16	620 803 C1	BUSHING, rod
3		RING, seal (Order PACKAGE, 626 233 C2)	17	109 461	FITTING, lubrication (Not furnished as part of assembly) (2)
4		RING, wear (Order PACKAGE, 626 233 C2)	18	109 462	FITTING, lubrication (Not furnished as part of assembly) (2)
5	384 255 R2	PISTON		626 233 C2	PACKAGE, cylinder sealing ring (Services one cylinder) (x) (Consists of -
6	620 807 C2	HEAD, front cylinder			\$ 2 RING, wear
7		RING, seal (Order PACKAGE, 626 233 C2)			\$ 1 RING, seal
8		RING, back-up (Order PACKAGE, 626 233 C2)			\$ 1 RING, seal
10		SEAL, rod (Order PACKAGE, 626 233 C2)			\$ 1 RING, seal
					\$ 1 RING, back-up
					\$ 1 SEAL, rod
					\$ 1 SEAL, wiper )

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### BUCKET TILT CYLINDER



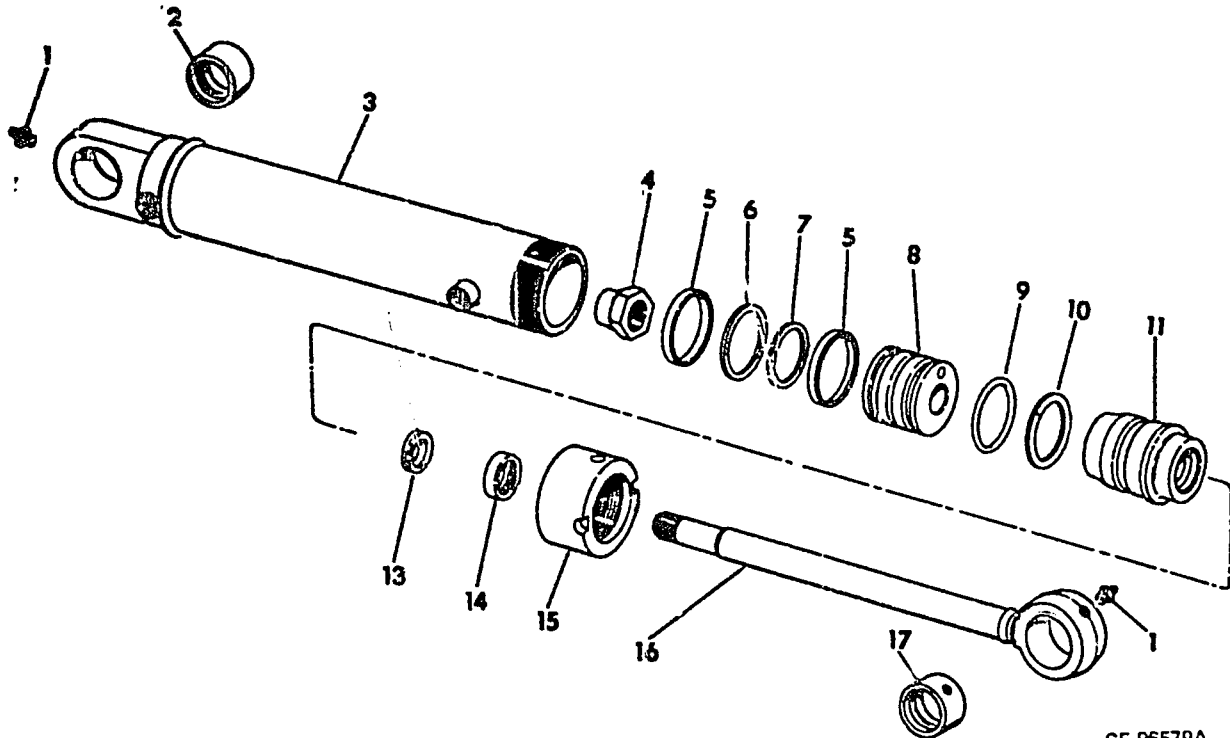
CE-96461B

	620 811 C93	CYLINDER, hydraulic tilt (2)			SEAL, wiper (Order PACKAGE, 626 232 C2)
	620 820 C1	PIN, cylinder mounting (4)			
	25 658 R1	SCREW, hex-hd cap (4)			
	9412 230	NUT, Stover lock (Composed of -			
1	620 812 C1	HOUSING, cylinder	11		
2		RING, seal (Order PACKAGE, 626 232 C2)	12	381 089 R1	RING, retainer
3		RING, seal (Order PACKAGE, 626 232 C2)	13	620 815 C1	ROD, piston
4		RING, wear (Order PACKAGE, 626 232 C2) (2)	14	25 127 R1	NUT, piston rod lock
5	623 871 C2	PISTON	15	620 796 C1	ROD, bucket indicator (Not furnished as part of assembly)
6	715 005 C1	HEAD, front cylinder (Replaces 381 080 C1)		25 522 R1	NUT (2)
7		RING, seal (Order PACKAGE, 626 232 C2)	16	620 797 C1	EYE, rod (Not furnished as part of assembly)
8		RING, back-up (Order PACKAGE, 626 232 C2)		25 960 R1	NUT, jam
10		SEAL, rod (Order PACKAGE, 626 232 C2)	17	620 821 C1	SUPPORT, indicator rod (Not furnished as part of assembly)
				626 232 C2	PACKAGE, cylinder sealing ring (Services one cylinder) (x) (Consists of - \$ 2 RING, wear \$ 1 RING, seal \$ 1 RING, seal \$ 1 RING, seal \$ 1 RING, back-up \$ 1 SEAL, rod \$ 1 SEAL, wiper )

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**MULTI-PURPOSE BUCKET CLAM CYLINDER**  
(Part of Multi-Purpose Bucket Attachment)



CE-96579A

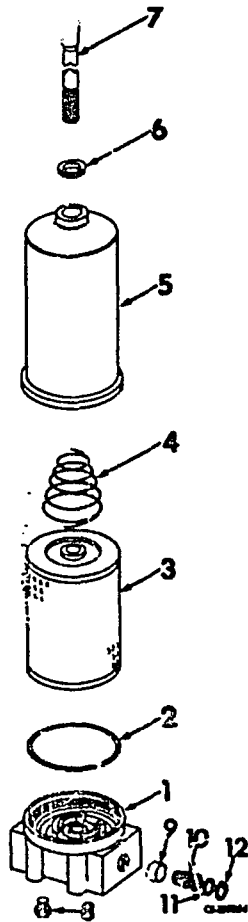
	653 102 C93	CYLINDER, hydraulic multi-purpose bucket (2) (Composed of -	11	715 008 C1	HEAD, front cylinder (Replaces 388 693 R1)
1	109 461	FITTING, lube (Not part of HYDRAULIC CYLINDER) (4)	13		SEAL, rod (Order PACKAGE, 626 234 C3)
2	620 751 C1	BUSHING	14		SEAL (Order PACKAGE, 626 234 C3)
3	653 105 C91	HOUSING w/BUSHING, 620 751 C1, cylinder	15	381 111 R1	RING, retainer
4	25 721 R1	NUT, piston rod lock	16	653 106 C92	ROD w/BUSHING, 653 125 C1, piston
5		RING, wear (Order PACKAGE, 626 234 C3) (2)	17	653 125 C1	BUSHING
6		RING, seal (Order PACKAGE, 626 234 C3)		626 234 C3	PACKAGE, cylinder sealing ring (Services one cylinder) (x) (Consists of - \$ 2 RING, wear \$ 1 RING, seal \$ 1 RING, seal \$ 1 RING, seal \$ 1 RING, back-up \$ 1 SEAL, rod \$ 1 SEAL, wiper
7		RING, seal (Order PACKAGE, 626 234 C3)			
8	388 694 R1	PISTON			
9		RING, seal (Order PACKAGE, 626 234 C3)			
10		RING, back-up (Order PACKAGE, 626 234 C3)			

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## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION FREE FILTER</b>			4	471 033 R1	SPRING (Filter B)
			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	622 653 C2	SPRING (Filter B)
			11	392 953 R1	WASHER (Filter A)
			11	103 343	WASHER (Filter B)
			12	338 835 R1	RETAINER

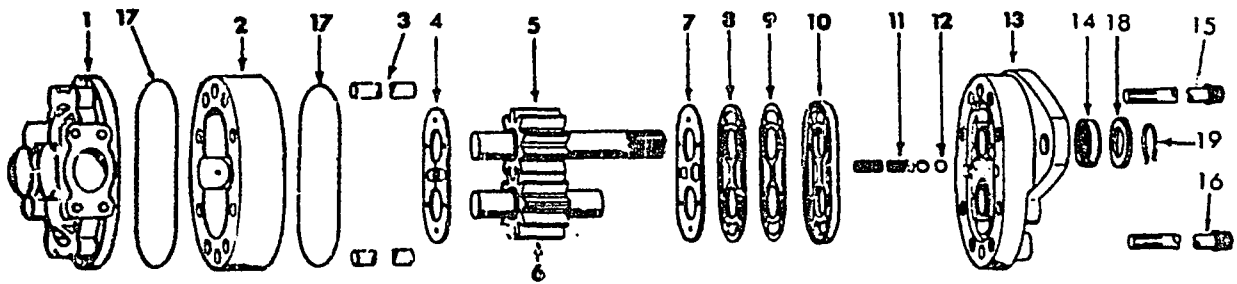


- A 621 930 C91 FILTER, transmission pressure (Order FILTER ASSEMBLY, 665 728 C94)
- B 665 728 C94 FILTER, transmission pressure  
24 840 R1 SCREW, hex-hd cap (4)  
115 093 WASHER, lock (4)  
(Composed of -
- 1 619 809 C92 BASE ASSEMBLY (Order FILTER ASSEMBLY 665 728 C94) (Filter A)
- 1 BASE (Not Furnished 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)

# HYDRAULICS

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



PL-117723

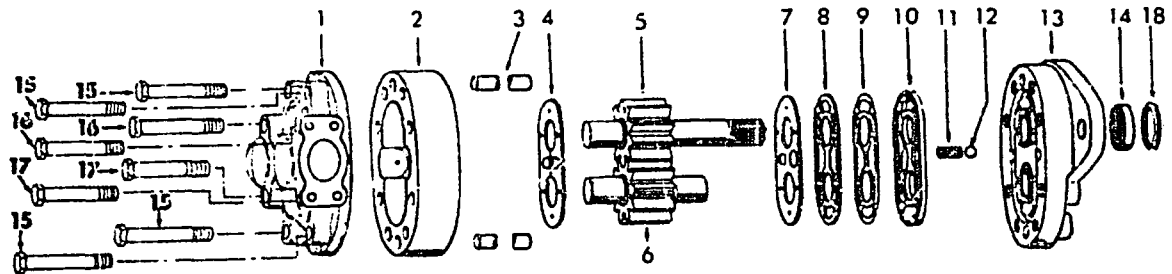
	625 000 C92	PUMP, transmission and torque converter hydraulic		15	210 538 H1	SCREW, cap (4)
	468 339 R1	"O" RING, pump sealing		16	182 561 H1	SCREW, cap (4)
	25 508 R1	SCREW, hex-hd cap (2)		17		"O" RING (Order KIT, 67 055 C1) (2)
	116 121	WASHER, lock (2)		18		WASHER, special (Order KIT, 67 055 C1)
	103 343	WASHER, flat (2)		19		RING, retaining (Order KIT, 67 055 C1)
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)				\$ 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, drive (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 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)				

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### LOADER EQUIPMENT PUMPS

(For all Machines w/o Backhoe and Backhoe Models 6783 and up)



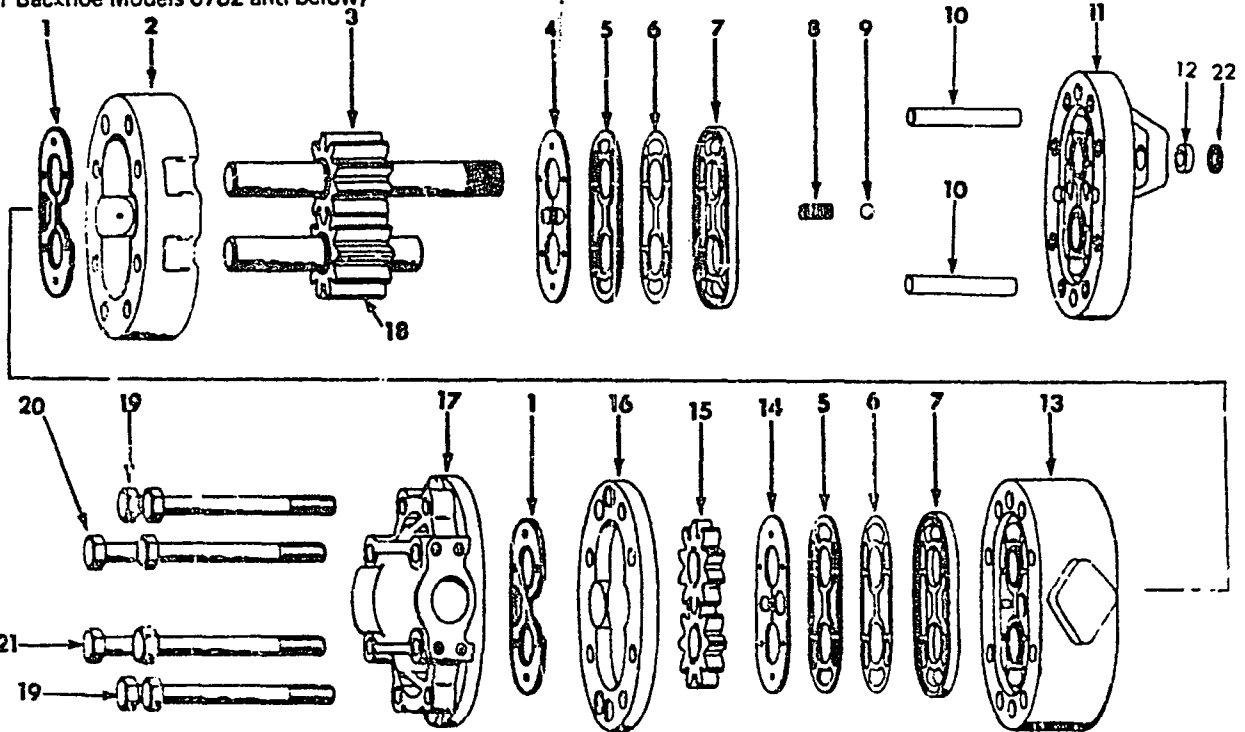
606 015 C93	PUMP, loader equipment		16	433 142	SCREW, 4-1/2" long hex-hd cap (2)
468 339 R1	"O" RING		17	190 256	SCREW, 1/2" dia. hex-hd cap (2)
25 506 R1	SCREW, hex-hd cap (2)		18		RING, retaining (Order KIT, 637 478 C91)
116 121	WASHER, lock (2)				
103 343	WASHER, flat (2)				
1	PLATE, back (Not Furnished Separately)		637 478 C91		KIT, major seal repair (Replaces 55 21 C91)
2	BODY (Not Furnished Separately)				(Consists of -
3	PIN, dowel (Not Furnished Separately) (2)				\$ 1 BALL
4	PLATE, thrust (Order KIT, 637 478 C91)				\$ 1 DIAPHRAGM
5	GEAR, drive (Not Furnished Separately)				\$ 1 GASKET, back-up
6	GEAR, idler (Not Furnished Separately)				\$ 1 GASKET, protector
7	DIAPHRAGM (Order KIT, 637 478 C91)				\$ 1 PLATE, thrust
8	GASKET, back-up (Order KIT, 637 478 C91)				\$ 1 RING, retaining
9	GASKET, protector (Order KIT, 637 478 C91)				\$ 1 SEAL, diaphragm
10	SEAL, diaphragm (Order KIT, 637 478 C91)				\$ 1 SEAL, shaft
11	SPRING, check (Order KIT, 637 478 C91)				\$ 1 SPRING )
12	BALL, steel (Order KIT, 637 478 C91)				
13	PLATE, front (Not Furnished Separately)				
14	SEAL, shaft (Order KIT, 637 478 C91)				
15	179 874	SCREW, 4" long hex-hd cap (4)			



# HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**LOADER EQUIPMENT PUMPS**  
(For Backhoe Models 6782 and below)

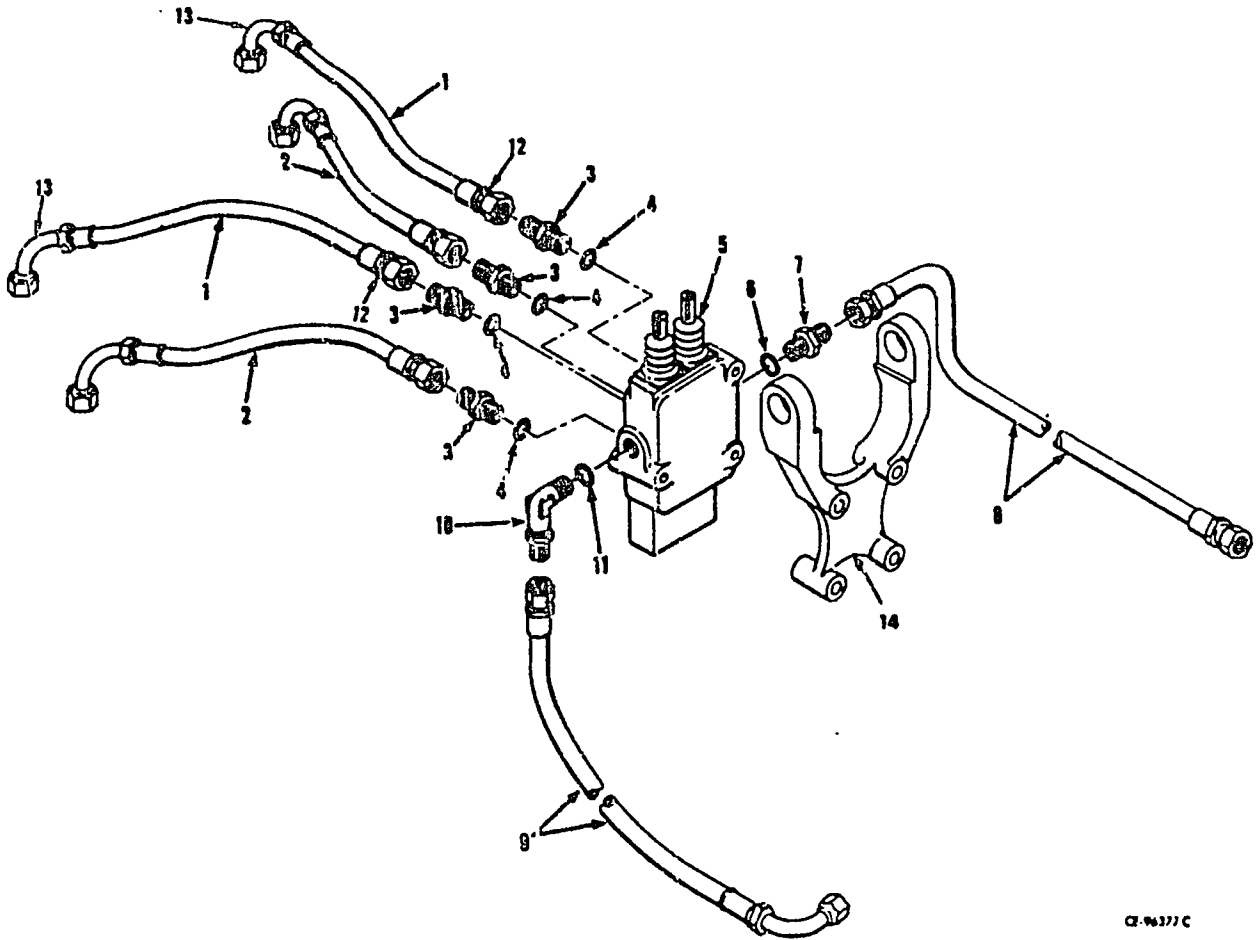


	656 913 C91	PUMP, loader equipment			CE-98226 A
	468 339 R1	"O" RING	13		PLATE, adapter (Not Furnished Separately)
	25 506 R1	SCREW, hex-hd cap (2)			
	116 121	WASHER, lock (2)			
	103 343	WASHER, flat (2)			
		(Composed of -			
1		PLATE, thrust (Order KIT, 627 275 C1) (2)			
2		BODY (Not Furnished Separately)			
3		GEAR, drive (Not Furnished Separately)			
4		DIAPHRAGM (Order KIT, 627 275 C1)			
5		GASKET, back-up (Order KIT, 627 275 C1) (2)	19	187 433	SCREW, 5-1/2" long hex-hd cap (4)
6		GASKET, protector (Order KIT, 627 275 C1) (2)		103 322	WASHER, lock (4)
7		SEAL, diaphragm (Order KIT, 627 275 C1) (2)	20	187 136	SCREW, 6" long hex-hd cap (2)
8		SPRING (Order KIT, 627 275 C1)		103 322	WASHER, lock (2)
9		BALL, steel (Order KIT, 627 275 C1)	21	187 238	SCREW, 1/2" dia. hex-hd cap (2)
10		PIN, dowel (Not Furnished Separately) (2)		103 323	WASHER, lock (2)
11		PLATE, front (Not Furnished Separately)	22		RING, retaining (Order KIT, 627 275 C1)
12		SEAL, shaft (Order KIT, 627 275 C1)		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)

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### HYDRAULIC STEERING PIPING

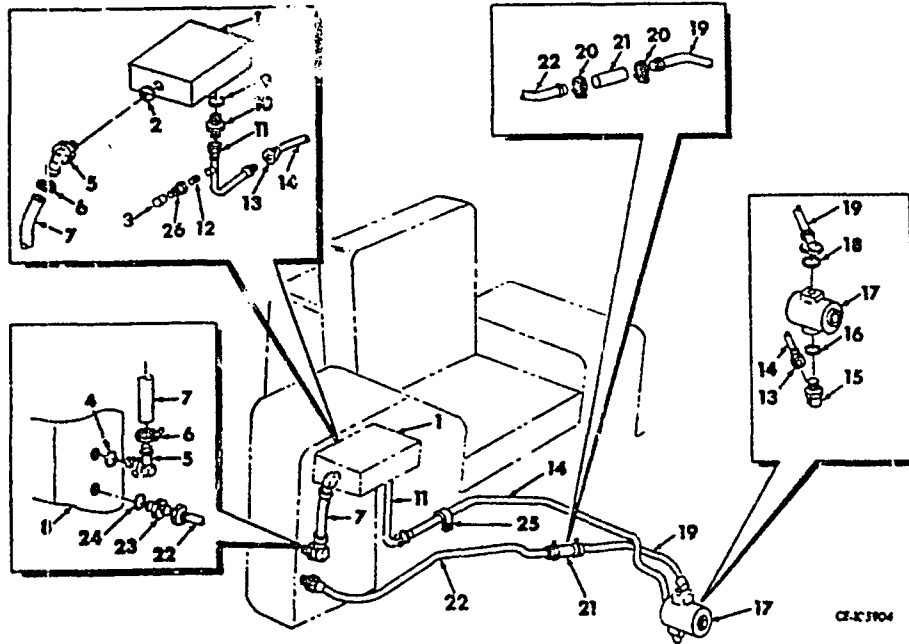


1	628 097 C1	HOSE w/FITTINGS, steering valve brake port to steering cylinder brake port (HOSE, 13/32" ID x 15" long including FITTINGS) (2)	8	656 547 C1	HOSE w/FITTINGS, steering valve outlet to drain elbow in transmission cover (HOSE, 1/2" ID x 20" long including FITTINGS)
2	656 707 C1	HOSE w/FITTINGS, steering valve clutch port to steering cylinder clutch port (HOSE, 3/8" ID x 12" long including FITTINGS) (2)	9	656 549 C1	HOSE w/FITTINGS, regulator main port tee to steering valve inlet (HOSE, 1/2" ID x 20" long including FITTINGS)
3	9 410 203	CONNECTOR, steering valve clutch and brake ports (4)	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 (For components see list of parts under details of "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 25 520 R1 25 750 R1 116 120	SUPPORT, steering valve NUT SCREW, hex-hd cap WASHER, lock

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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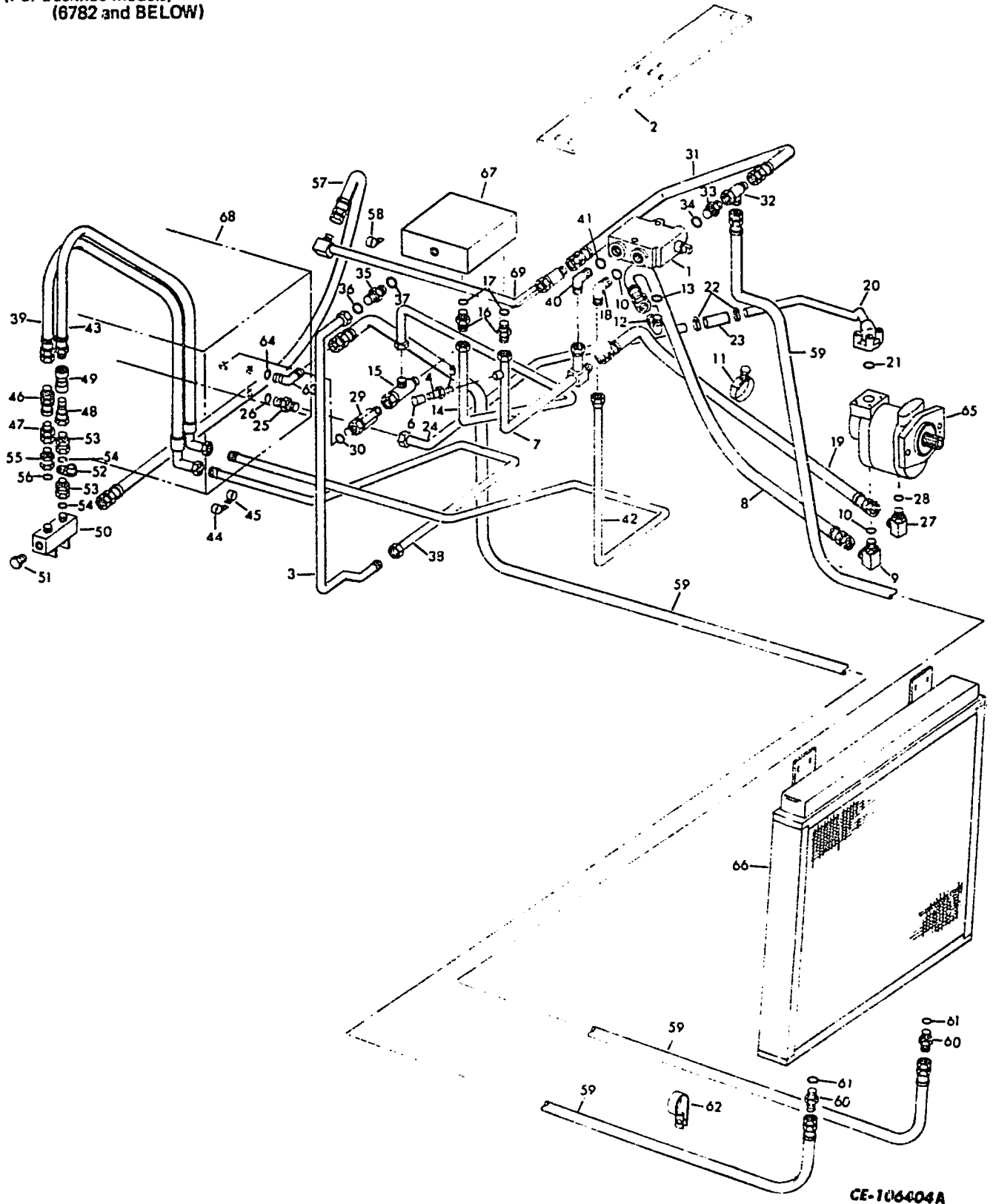
### LOADER EQUIPMENT PIPING (For All Models Except Backhoe)



1		VALVE ASSY., loader equipment control (Refer to "Tractor Equipment Control Valves")	15	9 410 981	ELBOW, 90°
2	296 247 R1	"O" RING	16	296 247 R1	"O" RING
3	715 477 C1	COVER, protective (Replaces 666 101 C1)	17		PUMP ASSY., loader equipment (Refer to "Tractor Equipment Pumps")
4	296 247 R1	"O" RING	18	707 253 R1	"O" RING
5	391 806 R1	FITTING, 90° (2)	19	705 613 C1	TUBE, suction
6	690 052 C1	CLAMP, hose (Replaces 23 908 R1) (2)		24 850 R1	SCREW, hex-hd cap (4)
7	653 513 C1	HOSE, return		115 314	WASHER, lock (4)
8		RESERVOIR, loader equipment hydraulics (Refer to "Reservoir and Related Parts")	20	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)
9	296 247 R1	"O" RING	21	645 097 C1	HOSE, suction
10	9 410 207	CONNECTOR, male	22	645 096 C1	TUBE, suction
11	653 498 C1	TUBE, pressure	23	9 410 209	CONNECTOR, male
12		NIPPLE, 1/8 x 3/4" pipe	24	301 016 R1	"O" RING
13		FITTING, female swivel hose (Order HOSE ASSY, 653 511 C1)	25	274 088 R91	CLAMP, hose
14	653 511 C1	HOSE w/FITTINGS, pump to tube (HOSE, 1" ID x 47" long, including FITTINGS)		331 775 R91	PAD, rubber
			26	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1)
			26	715 370 C1	PLUG, quick connective

# HYDRAULICS

## LOADER EQUIPMENT PIPING (For Backhoe Models (6782 and BELOW))



## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT PIPING</b> (For Backhoe Models) (6782 and BELOW)			14	661 336 C1	TUBE, return
			15	9 410 337	TEE, special
1		VALVE, diverter (Refer to "Diverter Valve")	16	9 410 207	CONNECTOR, pressure tube
	25 236 R1	SCREW, hex-hd cap (2)	16	9 410 207	CONNECTOR, return tube
	116 120	WASHER, lock (2)	17	296 247 R1	"O" RING, connector
	25 533 R1	WASHER, hardened (2)	18	9 410 978	ELBOW, pressure tube
	25 520 R1	NUT (2)	19	653 716 C1	HOSE w/FITTINGS, (Pressure) pump to valve (HOSE, 3/4" ID x 43" long including FITTINGS)
2	645 211 C2	BAR, support	20	645 239 C1	TUBE, suction
	24 839 R1	SCREW, 3/4" long hex-hd cap (2)	25 234 R1		SCREW, hex-hd cap (3)
	140 483 H	SCREW, 1-1/4" long hex-hd cap (2)	21	707 253 R1	"O" RING, suction tube
	25 534 R1	WASHER, flat (4)	22	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)
	115 093	WASHER, lock (4)	23	645 097 C1	HOSE, suction
	25 522 R1	NUT (2)	24	645 096 C1	TUBE, suction
3	661 334 C1	TUBE, pressure (Used with two section valve)	25	9 410 209	CONNECTOR, suction
3	661 333 C1	TUBE, pressure (Used with three section valve)	26	301 016 R1	"O" RING, connector
4	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER, 715 477 C1)	27	635 768 R1	ELBOW, pump outlet
4	715 370 C1	PLUG, quick connective	28	297 459 R1	"O" RING, elbow
5		NIPPLE, 1/8 x 3/4" pipe	29	656 915 C91	VALVE, check
6	715 477 C1	COVER, protective (Replaces 666 101 C1)	30	296 247 R1	"O" RING, valve
	331 665 R1	PAD, rubber (Order STRAP, 610 213 C91)	31	631 339 C1	HOSE w/FITTINGS, return (HOSE, 5/8" ID x 30" long including FITTINGS)
	690 063 C1	CLAMP, hose (2) (Replaces 327 257 R91)	32	9 410 335	TEE
	299 615 C1	CLAMP, hose (Replaces 308 580 R1)	33	574 479 R1	CONNECTOR
	25 861 R1	SCREW, hex-hd cap	34	364 885 R1	"O" RING, connector
	116 121	WASHER, lock	35	662 225 C1	FITTING, power beyond
	25 526 R1	NUT	36	296 247 R1	"O" RING, fitting
	1213 367 C91	COUPLING, female (Replaces 480 746 R91)	37	341 800 R1	"O" RING, fitting
	1213 368 C91	COUPLING, male (Replaces 480 745 R91)	38	661 335 C1	TUBE, pressure valve to backhoe
7	661 332 C2	TUBE, pressure	39	668 825 C1	HOSE w/FITTINGS, pressure (HOSE, 3/4" ID x 56" long including FITTINGS)
8	653 717 C1	HOSE w/FITTINGS, and GUARD (Pressure) pump to diverter valve (HOSE, 1/2" ID x 50" long including FITTINGS)	40	9 410 978	ELBOW, 90° at valve
9	936 456 R91	ELBOW, pump	41	364 885 R1	"O" RING, elbow
10	364 885 R1	"O" RING	42	661 337 C1	TUBE, pressure valve to backhoe
11	160 834 R91	CLAMP, hose	43	668 826 C1	HOSE w/FITTINGS, pressure (HOSE, 1/2" ID x 56" long including FITTINGS)
	331 775 R1	PAD, rubber (Order STRAP, 610 213 C91)			
12	936 450 R91	ELBOW, 90° pressure at valve			
13	364 885 R1	"O" RING, elbow			

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT PIPING - Continued</b> (For Backhoe Models) (6782 and BELOW)			67		VALVE ASSY, tractor equipment control (Refer to "Tractor Equipment Control Valve")
44	314 798 R1	CLAMP, hose	68		RESERVOIR, tractor equipment hydraulic (Refer to "Reservoir and Related Parts")
45	299 615 C1 24 861 R1 116 121 25 526 R1	CLAMP, hose (Replaces 308 580 R1) SCREW, hex-hd cap WASHER, lock NUT	69	705 654 C1	TUBE, return
46	1213 367 C91	COUPLING, female (Replaces 480 746 R91)		610 213 C91	STRAP, hose (Will work for CLAMP, 160 834 R91 and PAD, 331 775 R1)
<b>BACKHOE HYDRAULIC CONVERSION PACKAGES</b>					
47	1213 368 C91	COUPLING, male (Replaces 480 745 R91)	A	710 267 C91	PACKAGE, hydraulic conversion (For two spool valve) (Used w/ ATTACHMENT, 710 271 C91) (See NOTE 2)
48	395 149 R1	COUPLING	B	710 268 C91	PACKAGE, hydraulic conversion (For three spool valve) (Used w/ ATTACHMENT, 710 271 C91) (See NOTE 2)
49	395 150 R91	COUPLING			(Consists of -
50	645 236 C1 140 483 H 115 093 25 522 R1	FITTING, special backhoe SCREW, hex-hd cap (2) WASHER, lock (2) NUT (2)			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
51	444 709	PLUG, pipe			\$ 1 BOSS
52	999 599 R1	CAP, dust			1 BRACKET 622 744 C1 1 BRACKET 622 745 C1 2 BRACKET 645 261 C1
53	485 313 R1	UNION (2)			1 CLAMP 314 798 R1 1 CLAMP 317 262 R1 1 CLAMP 345 798 R1
54	364 885 R1	"O" RING (2)			2 CONNECTOR 9 410 205 1 CONNECTOR 9 410 207 1 COOLER 619 933 C1
55	485 312 R1	UNION			OR
56	297 459 R1	"O" RING			1 COOLER 661 451 C91 1 DISCONNECT 480 743 R91 1 DISCONNECT 480 744 R91
57	666 552 C1	HOSE w/FITTINGS, return (HOSE, 1" ID x 33" long including FITTINGS)			1 DRAWING CZG-2428 1 DRAWING CZG-2432 1 DRAWING CZG-2433
58	345 798 R1 24 861 R1 116 121 25 526 R1	CLAMP, hose SCREW, hex-hd cap WASHER, lock NUT			1 ELBOW 150 776 C91 1 ELBOW 9 410 283 1 FITTING 662 225 C1
59	645 389 C1	HOSE w/FITTINGS, cooler return (HOSE, 5/8" ID x 120" long including FITTINGS) (2)			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
60	9 510 205	CONNECTOR (2)			4 "O" RING 296 247 R1 1 "O" RING 343 900 R1 2 "O" RING 368 269 R1
61	368 269 R1	"O" RING (2)			(B) 1 PLATE 707 048 C1 1 SPACER 645 253 C1 1 TEE 9 410 337
62	317 262 R1 24 863 R1 25 526 R1	CLAMP, hose SCREW, hex-hd cap NUT			(A) 1 TUBE 667 183 C1 (B) 1 TUBE 667 184 C1 1 TUBE 667 185 C1 1 TUBE 710 219 C1 1 TUBE 710 221 C1
63	150 776 C91	ELBOW, 90°			1 VALVE 706 966 C91 2 WASHER 25 544 R1
64	296 247 R1	"O" RING			
65		PUMP ASSY, tractor equipment (Refer to "Tractor Equipment Pumps")			
66		COOLER, tractor equipment oil (Refer to "Hydraulic Oil Cooler")			

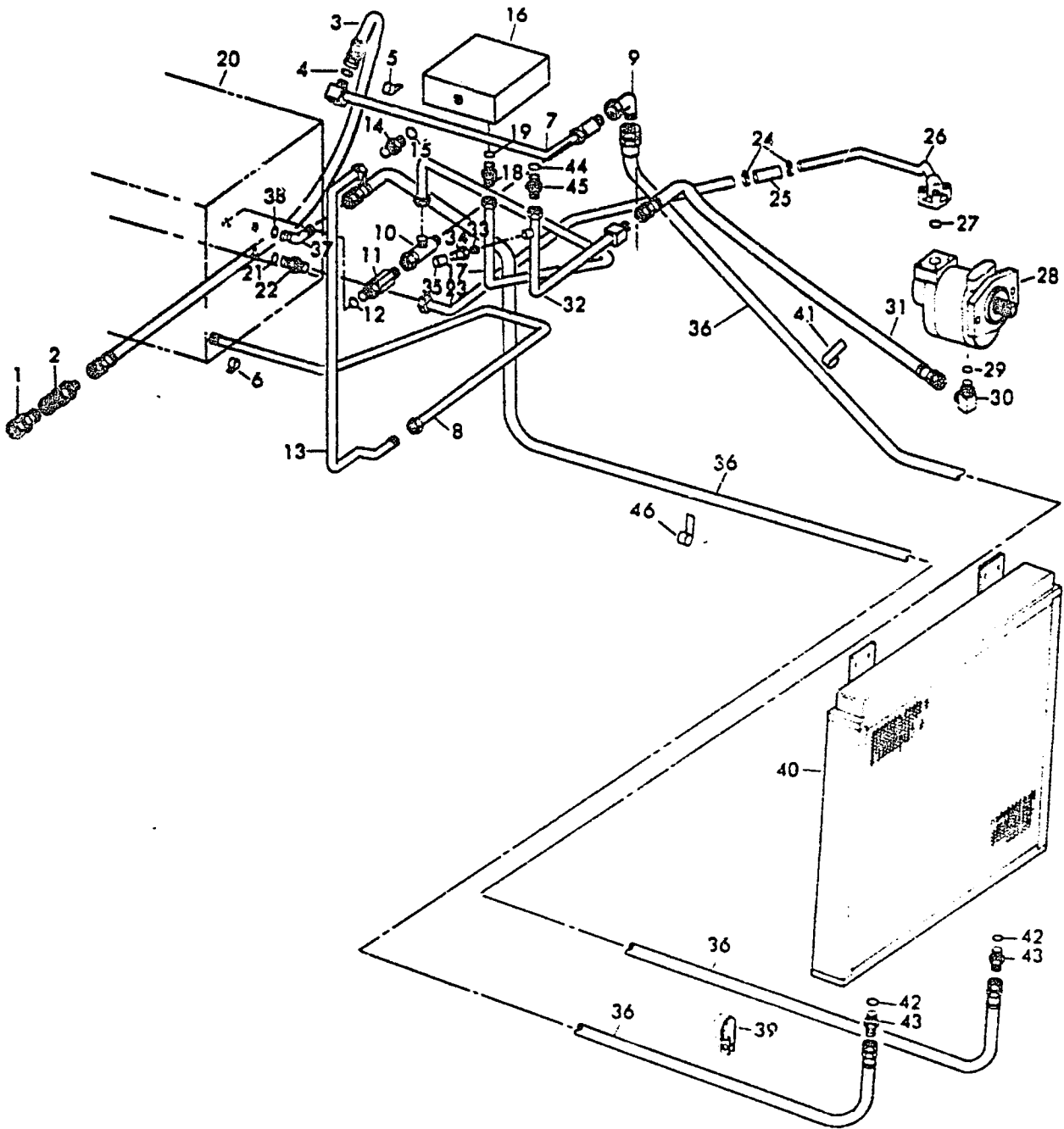
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
BACKHOE HYDRAULIC CONVERSION PACKAGES - Continued					
	4	WASHER		28 035 K	
	6	WASHER		115 093	
	4	WASHER		115 314	
	2	WASHER		116 121	
	2	WASHER		551 658 R1 )	

# HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**LOADER EQUIPMENT PIPING**  
(For Backhoe Models  
15783 and UP)



**CE-113387A**

1	1213 369 C91	COUPLING, male (Replaces 480 743 R91)			
2	1213 368 C91	COUPLING, female (Replaces 480 744 R91)	5	324 798 R1	CLAMP, backhoe return tube
3	710 216 C1	HOSE w/FITTINGS, backhoe pressure (HOSE, 1"ID x 44" long including FITTINGS)		25 526 R1	NUT
4	296 247 R1	"O" RING, hose		24 851 R1	SCREW, hex-hd cap
				116 121	WASHER, lock



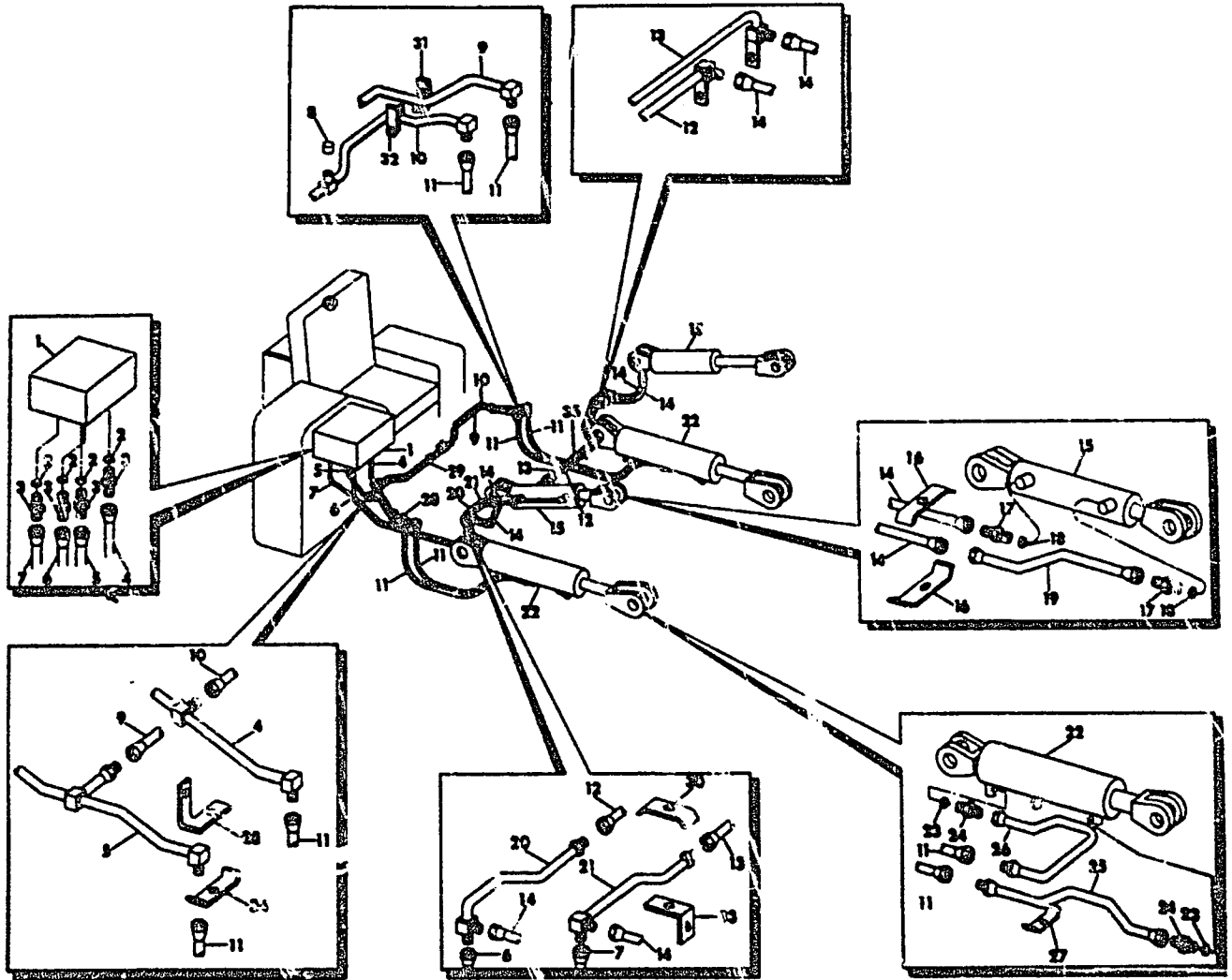
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT PIPING - Continued</b> (For Backhoe Models) (6783 and UP)			27	707 253 R1	"O" RING, suction tube
6	345 798 R1 25 526 R1 24 861 R1 116 121	CLAMP, backhoe pressure tube NUT SCREW, hex-hd cap WASHER, lock	28		PUMP ASSY, tractor equipment (Refer to "Tractor Equipment Pumps")
7	710 219 C1	TUBE, backhoe return	29	296 247 R1	"O" RING, elbow
8	667 185 C1	TUBE, backhoe pressure	30	9 410 081	ELBOW, 90° pump outlet
9	9 410 283	ELBOW, 90° (Check valve to cooler)	31	653 511 C1	HOSE w/FITTINGS, pump to pressure tube (HOSE, 3/4" ID x 48" long including FITTINGS)
10	9 410 337	TEE, 90° swivel (Check valve to backhoe tube)	32	653 498 C1	TUBE, pressure
11	706 966 C91	VALVE, check	33		NIPPLE, 1/8 x 3/4" pipe
12	296 247 R1	"O" RING, check valve	34	342 775 R91	PLUG, quick connective (Order PLUG, 715 370 C1 and COVER 715 477 C1)
13	667 183 C1	TJBE, pressure (For models equipped w/two Section Valves)	34	715 370 C1	PLUG, quick connective
13	667 184 C1	TUBE, pressure (For models equipped w/three Section Valves)	35	715 477 C1	COVER, protective (Replaces 666 101 C1)
13	710 220 C1	TUBE, pressure (For models equipped w/one Section Valve)		331 775 R1	PAD, rubber (Order STRAP, 610 213 C91)
14	9 410 207	CONNECTOR, tube (For models equipped w/one Section Valve)	36	645 389 C1	HOSE w/FITTINGS, cooler to reservoir (HOSE, 5/8" ID x 120" long including FITTINGS) (2)
14	662 225 C1	FITTING, power beyond (For models equipped w/two and three section valves)	37	150 776 C91	ELBOW, 90° cooler to reservoir hose
	343 900 R1	"O" RING, power beyond fitting	38	296 247 R1	"O" RING, elbow
15	296 247 R1	"O" RING	39	317 262 R1 25 526 R1 24 863 R1	CLAMP, hose NUT SCREW, hex-hd cap
16		VALVE ASSY, tractor equipment control (Refer to "Tractor Equipment Control Valves")	40		COOLER, tractor equipment oil (Refer to "Hydraulic Oil Cooler")
17	710 221 C1	TUBE, valve return	41	274 088 R91 331 775 R1	CLAMP, pressure hose PAD, rubber (Order STRAP, 610 213 C91)
18	9 410 207	CONNECTOR, return tube to valve	42	368 269 R1	"O" RING, connector (2)
19	296 247 R1	"O" RING, connector	43	9 410 205	CONNECTOR, oil cooler inlet and outlet hose (2)
20		RESERVOIR, tractor equipment hydraulic (Refer to "Reservoir and Related Parts")	44	296 247 R1	"O" RING, connector
21	301 016 R1	"O" RING, connector	45	9 410 207	CONNECTOR, pressure tube to pump
22	9 410 209	CONNECTOR, suction tube	46	317 262 R1 25 657 R1 116 121	CLAMP, hose BOLT WASHER, lock
23	645 096 C1	TUBE, suction (At reservoir)		610 213 C91	STRAP, hose clamping (Replaces 327 273 R91)
24	690 063 C1	CLAMP, hose (Replaces 327 257 R91) (2)		610 213 C91	STRAP, hose (Will work for CLAMP, 274 088 C91 and PAD 331 775 R1)
25	645 097 C1	HOSE, suction			
26	705 613 C1 24 850 R1 115 314	TUBE, suction (At pump) SCREW, hex-hd cap (4) WASHER, lock (4)			

# HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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## LOADER EQUIPMENT PIPING (Bucket Tilt and Lift)



CE-96566B

1		VALVE ASSY., loader equipment hydraulic (Refer to "Tractor Equipment Control Valves")	11	715 045 C1	HOSE w/FITTINGS, lift cylinder (HOSE, 3/4" ID x 34" long including FITTINGS) (4)
2	296 247 R1	"O" RING (4)	12	653 210 C1	TUBE, tilt head end (LH)
3	9 410 207	CONNECTOR (4)	13	653 211 C1; 24 863 R1 116 121 25 536 R1	TUBE, tilt rod end (LH) SCREW, hex-hd cap WASHER, lock WASHER, flat
4	653 207 C1	TUBE, lift head end (RH)	14	715 043 C1	HOSE w/FITTINGS, tilt cylinder (HOSE, 3/4" ID x 28" long including FITTINGS) (4)
5	653 208 C1	TUBE, lift rod end (RH)	15		CYLINDER ASSY., loader equipment tilt (Refer to "Tractor Equipment Tilt Cylinder") (2)
6	663 643 C2	TUBE, tilt rod end (RH)			
7	663 644 C2	TUBE, tilt head end (RH)			
8	628 369 C1	CAP, pipe			
9	653 206 C1	TUBE, lift rod end (LH)			
10	653 205 C1	TUBE, lift head end (LH)			

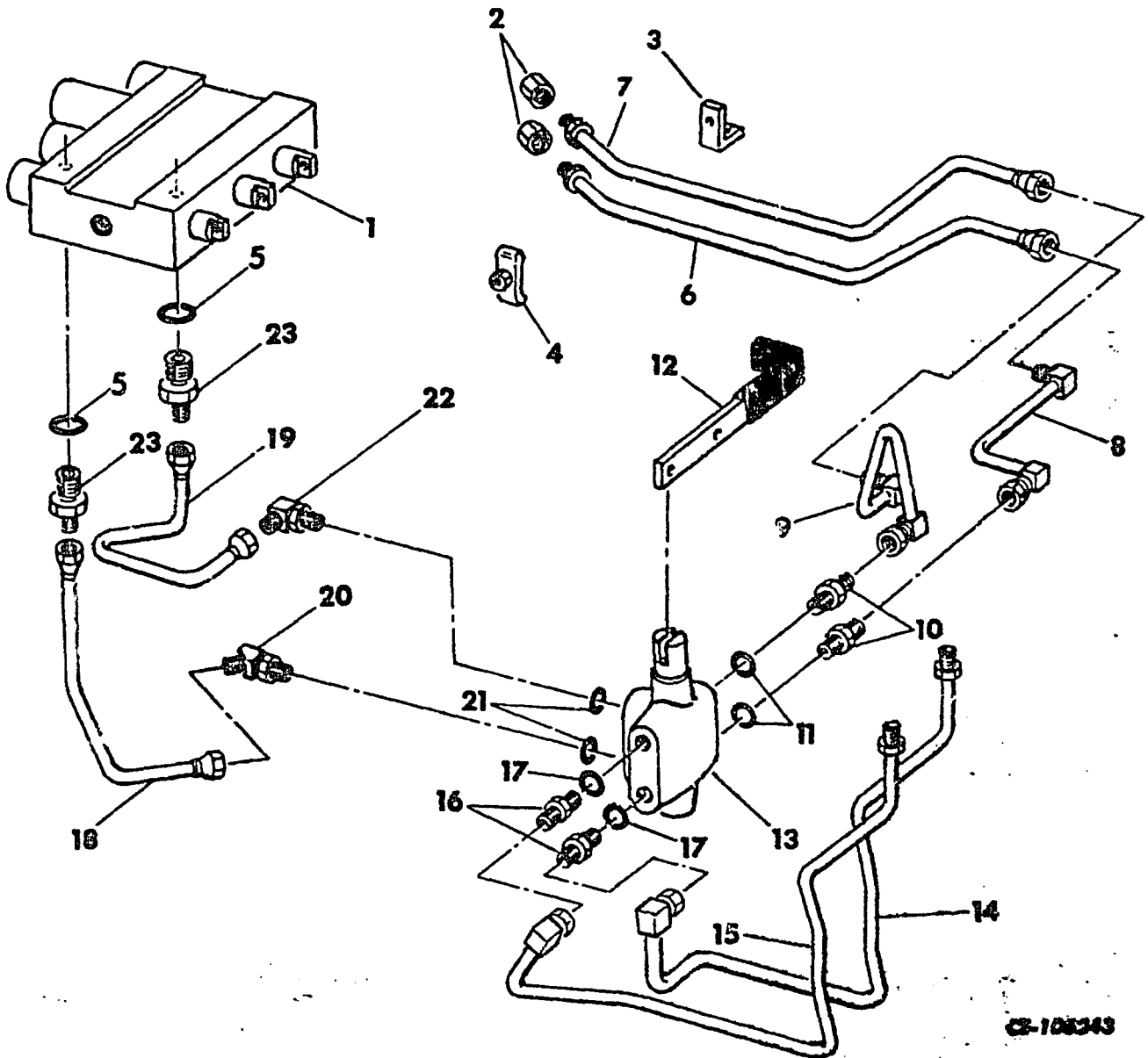
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT PIPING - Continued</b> (Bucket Tilt and Lift)			33	621 880 C1	ANGLE, tube clamp
				140 483 H	SCREW, hex-hd cap
				115 093	WASHER, lock
				25 534 R1	WASHER, flat
16	653 171 C1	CLAMP, tube (4)	34	653 236 C1	CLAMP, tube
	24 621 R1	SCREW, hex-hd cap (2)		25 522 R1	NUT
	25 522 R1	NUT (2)		24 842 R1	SCREW, hex-hd cap
	115 093	WASHER, lock (2)		115 093	WASHER, lock
	25 534 R1	WASHER, flat (2)		25 534 R1	WASHER, flat
17	9 410 205	CONNECTOR (4)	35	653 234 C1	CLAMP, tube
18	368 269 R1	"O" RING (4)		653 235 C1	SPACER, tube
19	653 209 C1	TUBE, tilt cylinder (2)		24 621 R1	SCREW, hex-hd cap
20	653 213 C1	TUBE, tilt rod end (RH)		115 093	WASHER, lock
21	653 212 C1	TUBE, tilt head end (RH)		25 553 R1	WASHER, flat
22		CYLINDER ASSY., loader equipment lift (Refer to "Tractor Equipment Lift Cylinders") (2)			
23	368 269 R1	"O" RING (4)			
24	9 410 205	CONNECTOR (4)			
25	653 202 C1	TUBE, lift cylinder rod end (2)			
26	653 203 C1	TUBE, lift cylinder head end (2)			
27	653 171 C1	CLAMP, tube (Replaces 653 233 C1) (2)			
	24 841 R1	SCREW, hex-hd cap (2)			
	115 093	WASHER, lock (2)			
	25 534 R1	WASHER, flat (2)			
28	653 503 C1	ANGLE, support RH lift tube			
	25 522 R1	NUT			
	24 840 R1	SCREW, hex-hd cap			
	115 093	WASHER, lock			
	25 534 R1	WASHER, flat			
29	653 234 C1	CLAMP, tube			
	25 522 R1	NUT			
	653 235 C1	SPACER, tube			
	24 621 R1	SCREW, hex-hd cap			
	115 093	WASHER, lock			
	25 534 R1	WASHER, flat			
30	653 171 C1	CLAMP, tube			
	25 522 R1	NUT			
	21 318 R1	SCREW, hex-hd cap			
	115 093	WASHER, lock			
	25 534 R1	WASHER, flat			
31	653 508 C1	CLAMP, tube			
	24 342 R1	SCREW, hex-hd cap			
	115 093	WASHER, lock			
	25 534 R1	WASHER, flat			
32	653 506 C1	CLAMP, lift tube (LH)			
	25 522 R1	NUT			
	140 483 H	SCREW, hex-hd cap			
	115 093	WASHER, lock			
	25 534 R1	WASHER, flat			

# 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)



CS-108343

622 842 C91 ATTACHMENT, rear auxiliary circuit w/Diverter Valve (Used w/three section valve two lever Hydraulic Control Unit and Multi-purpose bucket) (If a ROPS canopy is to be used with this attachment, only arched canopy mount is compatible) (See NOTE 2)  
(Consists of -

1 VALVE ASSY, equipment control (Refer to "Equipment Control Valve") (Not part of ATTACHMENT)

2	9 403 374	CAP, 37° fibred tube (2)
3	653 698 C1 24 842 R1 25 534 R1	ANGLE, tube clamp SCREW, hex-hd cap WASHER, flat hardened
4	653 508 C1 24 842 R1 115 083 103 341	CLAMP, tube SCREW, hex-hd cap WASHER, lock WASHER, flat
5	296 247 R1	"O" RING (2)
6	653 497 C1	TUBE, ripper (lower rear)

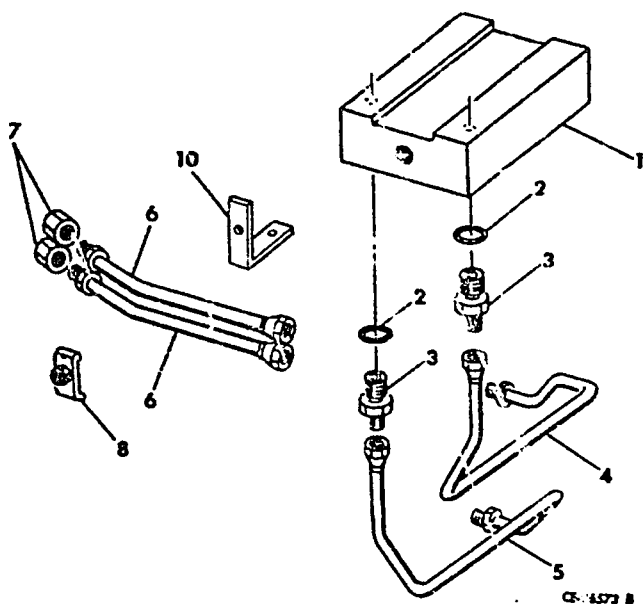
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**REAR AUXILIARY CIRCUIT WITH DIVERTER VALVE - Continued**  
(Not Used with Backhoe Models)

7	653 496 C1	TUBE, ripper (upper rear)
8	653 227 C1	TUBE, diverter to lower rear ripper
9	653 226 C1	TUBE, diverter to upper rear ripper
10	9 410 205	CONNECTOR (2)
11	368 269 R1	"O" RING (2)
12	623 792 C1 42 947 V 119 117 119 891	LEVER, diverter valve PIN, rod end PIN, cotter PIN, cotter
13	9 413 953 277 232 R1	VALVE, diverter (Refer to "Diverter Valve") NUT, stover lock (2) SCREW, hex-hd cap (2)
14	653 225 C1	TUBE, diverter to clam
15	653 224 C1	TUBE, diverter to clam
16	9 410 205	CONNECTOR (2)
17	368 269 R1	"O" RING (2)
18	645 130 C1	TUBE, valve to diverter
19	645 129 C1	TUBE, valve to diverter
20	9 411 107	ELBOW, 45°
21	368 269 R1	"O" RING (2)
22	9 410 979	ELBOW, 90°
23	380 633 R1	CONNECTOR (2)

**REAR AUXILIARY CIRCUIT**  
(Not Used with Backhoe Models)



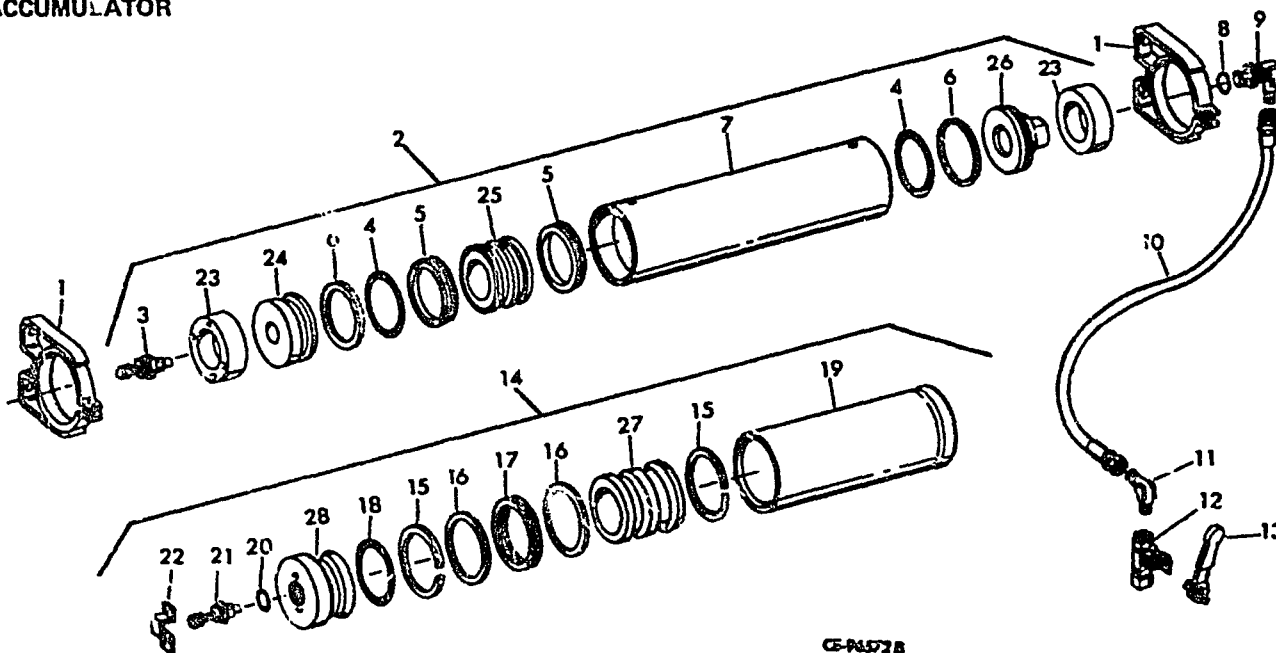
622 843 C91 ATTACHMENT, rear auxiliary circuit (Used w/three section valve two lever Hydraulic Control Unit and general purpose or light material buckets) (If a ROPS canopy is to be used with this attachment, only arched canopy mount is compatible) (See NOTE 2)  
(Consists of -

1		VALVE, equipment control (Refer to "Equipment Control Valve") (Not part of ATTACHMENT)
2	296 247 R1	"O" RING (2)
3	330 633 R1	CONNECTOR (2)
4	653 216 C1	TUBE, valve to ripper (For right front port)
5	653 217 C1	TUBE, valve to ripper (For left front port)
6	653 218 C1	TUBE, ripper (2)
7	9 403 374	CAP, 37° flared tube (2)
8	653 508 C1 24 842 R1 115 093 103 341	CLAMP, tube SCREW, hex-hd cap WASHER, lock WASHER, flat
10	653 698 C1 24 842 R1 25 534 R1	ANGLE, tube clamp SCREW, hex-hd cap WASHER, flat hardened

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### ACCUMULATOR

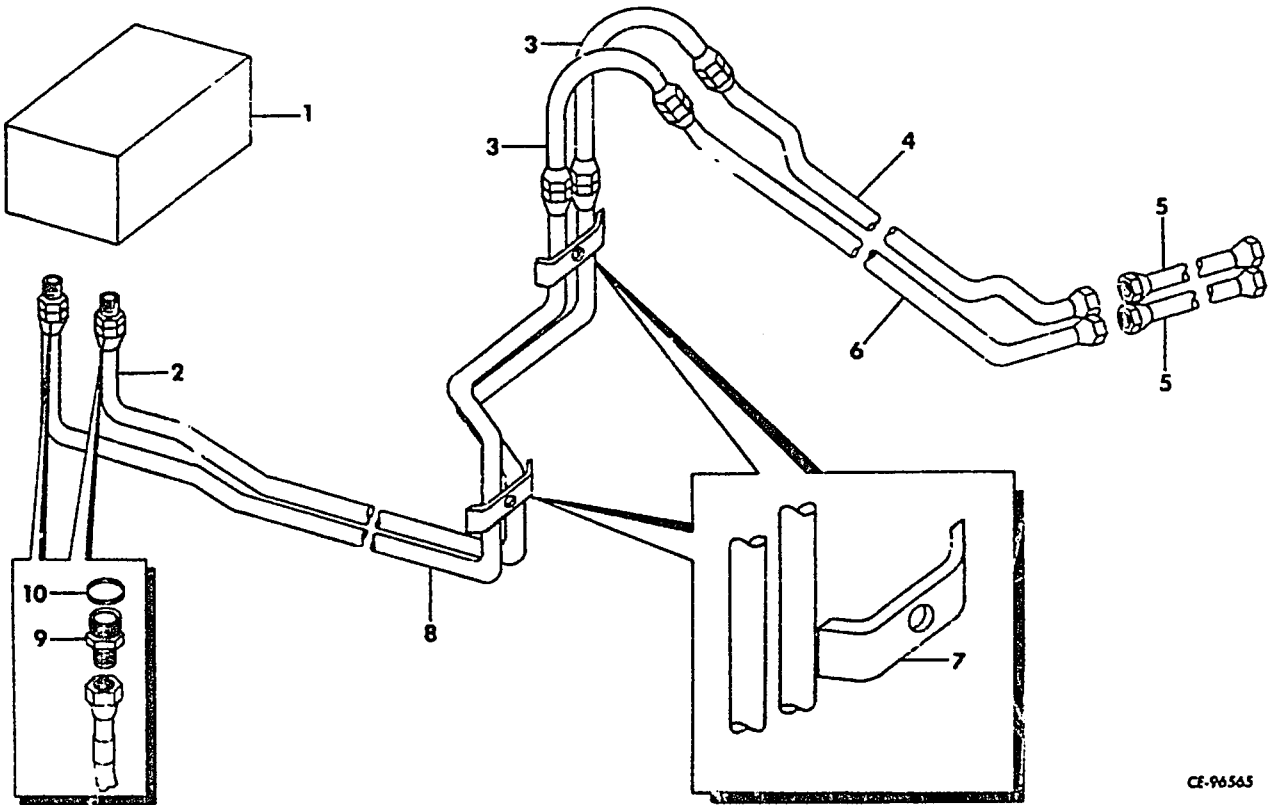


1	653 237 C1	BRACKET, accumulator (2)	16	627 712 C1	RING, back-up (2)
	24 848 R1	SCREW, 3/4" long hex-hd cap (4)	17	627 714 C1	RING, piston
	24 849 R1	SCREW, 1" long hex-hd cap (2)	18	355 740 R1	"O" RING, cap
	115 314	WASHER, lock (6)	19		BODY, accumulator (Not Furnished Separately)
	25 524 R1	NUT (2)	20	392 382 R1	"O" RING, gas valve
2	653 240 C91	ACCUMULATOR ASSY (Optional w/Accumulator, 653 763 C91)	21	627 715 C91	VALVE, gas
3	215 693 H1	VALVE, air	22		PROTECTOR, valve (Not Furnished Separately)
4		"O" RING (Order KIT, 627 170 C1)	23		NUT, retainer (Not Furnished Separately) (2)
5		"T" RING (Order KIT, 627 170 C1)	24		CAP, valve end (Not Furnished Separately)
6		RING, Back-up (Order KIT, 627 170 C1)	25		PISTON (Not Furnished Separately)
7		CYLINDER, accumulator (Not Furnished Separately)	26		CAP, fluid end (Not Furnished Separately)
8	368 259 R1	"O" RING	27		PISTON (Not Furnished Separately)
9	9 410 979	ELBOW, 90° adjustable	28		CAP, valve end (Not Furnished Separately)
10	715 046 C1	HOSE w/FITTINGS, accumulator (HOSE, 3/4" ID x 13-1/2" long including FITTINGS)		627 170 C1	KIT, accumulator seal service (Consists of - \$2 "O" RING \$2 "T" RING \$2 RING, back-up)
11	9 402 867	ELBOW, 90°			
12	606 505 C91	VALVE, shut-off			
13	610 849 C1 18 252 R1	HANDLE, shut-off valve NUT, Esna lock			
14	653 763 C91	ACCUMULATOR ASSY (Optional w/Accumulator, 653 240 C91)			
15	627 713 C1	RING, teflon (2)			

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### MULTI-PURPOSE BUCKET PIPING FOR LIFT ARMS (Part of Multi-Purpose Plumbing Attachment)



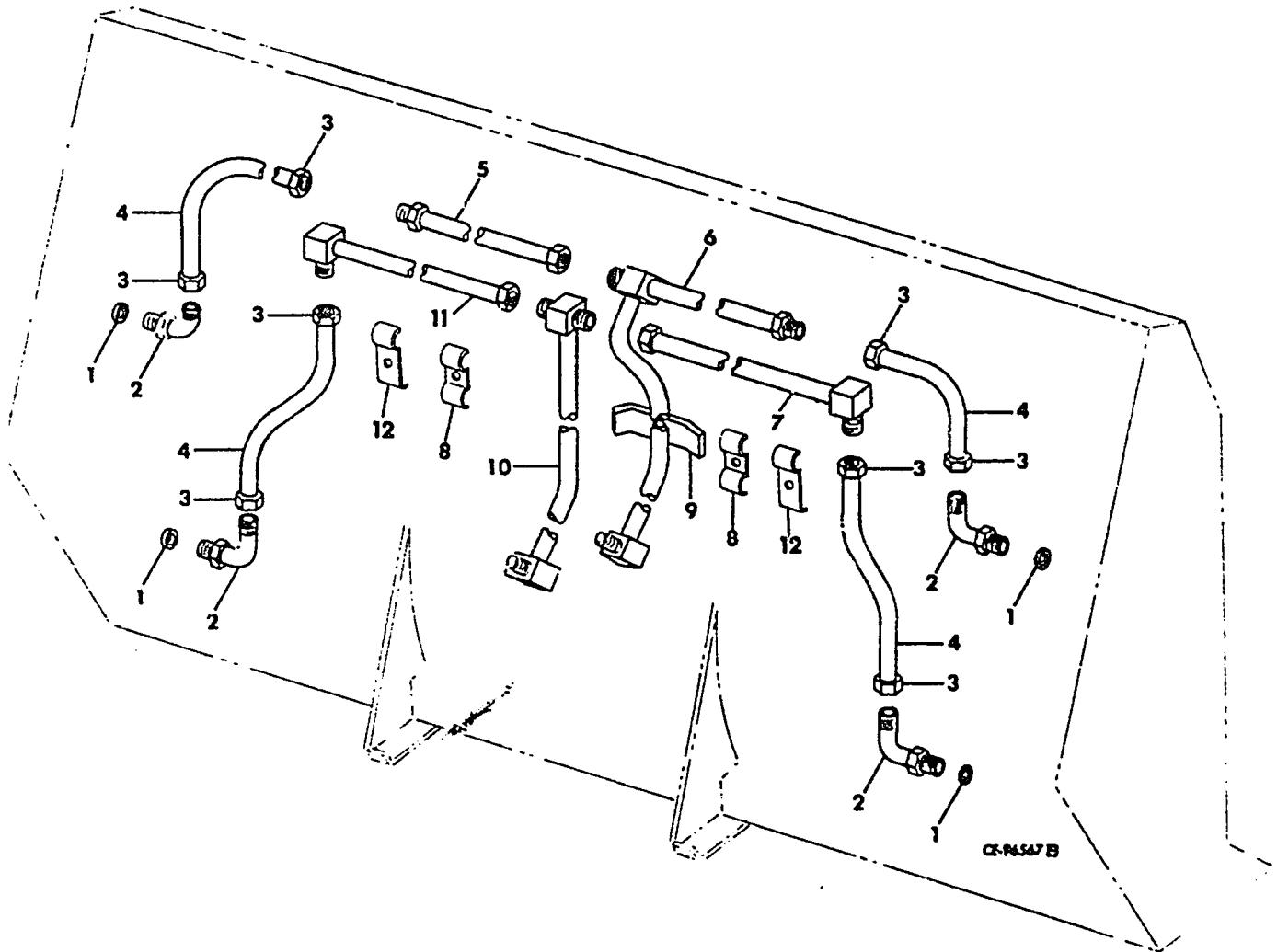
CE-96565

1		VALVE, tractor equipment control (Refer to "Loader Equipment Control Valve")	6	653 222 C1 25 522 R1 115 093 103 341	TUBE, clam NUT WASHER, lock WASHER, flat
2	653 219 C1	TUBE, valve to clam	7	653 234 C1 600 637 C1 24 621 R1 24 844 R1 115 093 103 341	CLAMP, tube (2) SPACER (2) SCREW, 2-1/2" long hex-hd cap SCREW, 3-1/2" long hex-hd cap WASHER, lock WASHER, flat
3	715 043 C1	HOSE, 3/4" ID x 28" long including FITTINGS (2)	8	653 220 C1	TUBE, clam open
4	653 221 C1 25 522 R1 115 093 103 341	TUBE, clam NUT WASHER, lock WASHER, flat	9	380 633 R1	CONNECTOR (2)
5	715 044 C1	HOSE with FITTINGS (HOSE 3/4" ID x 42" long including FITTINGS) (2)	10	296 247 R1	"O" RING (2)

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### MULTI-PURPOSE BUCKET PIPING (Part of Multi-Purpose Bucket Attachment)



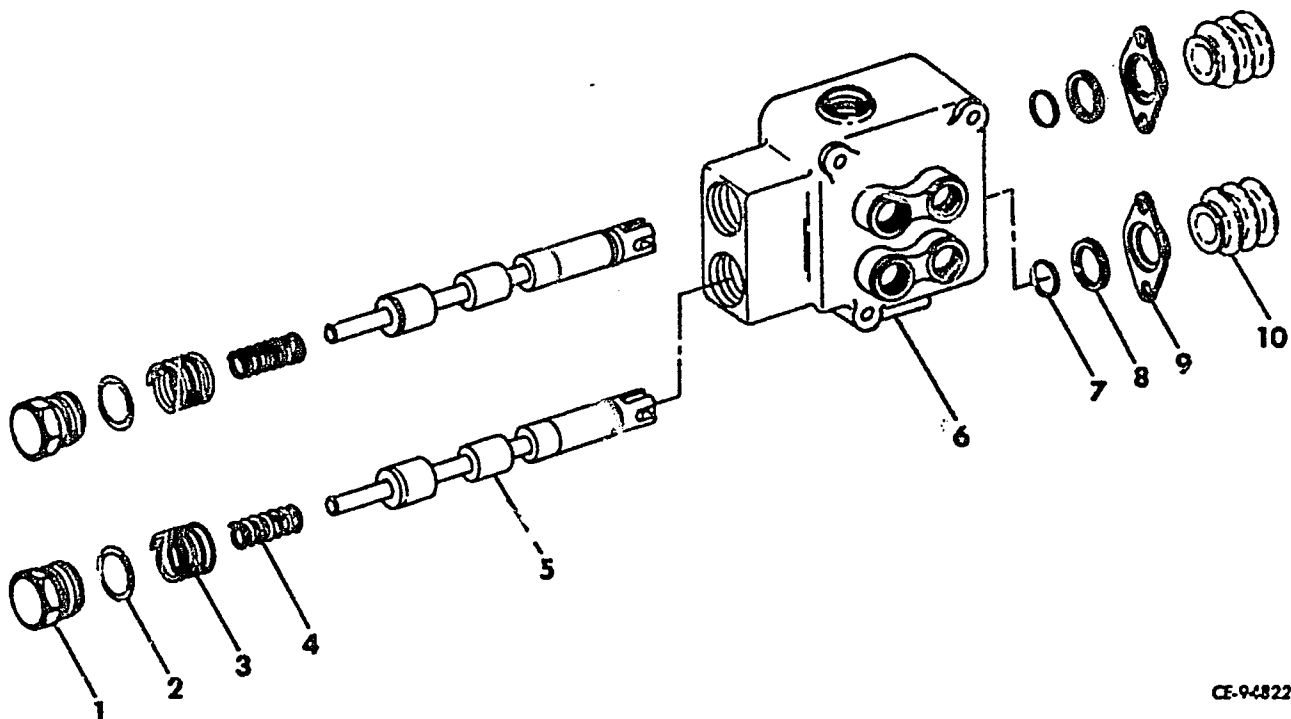
1	364 885 R1	"O" RING (4)	9	653 171 C1 25 522 R1 115 093	CLAMP, tube NUT WASHER, lock
2	9 410 978	ADAPTER, 90° (4)	10	653 165 C1	TUBE, clam head end
3		FITTING, jig swivel (Order HOSE ASSY, 625 967 C91)	11	653 157 C1	TUBE, LH head end clam
4	625 967 C91	HOSE w/FITTINGS, rod (HOSE, 1/2" ID x 23-1/2" long including FITTINGS) (4)	12	628 307 C1 115 093 25 522 R1	CLAMP, tube (2) WASHER, lock (2) NUT (2)
5	653 166 C1	TUBE, LH rod end cross			
6	653 168 C1	TUBE, clam rod end			
7	653 162 C1	TUBE, RH head end clam			
8	877 928 C1 25 522 R1 115 093	CLAMP (2) NUT (2) WASHER, lock (2)			



## HYDRAULICS

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



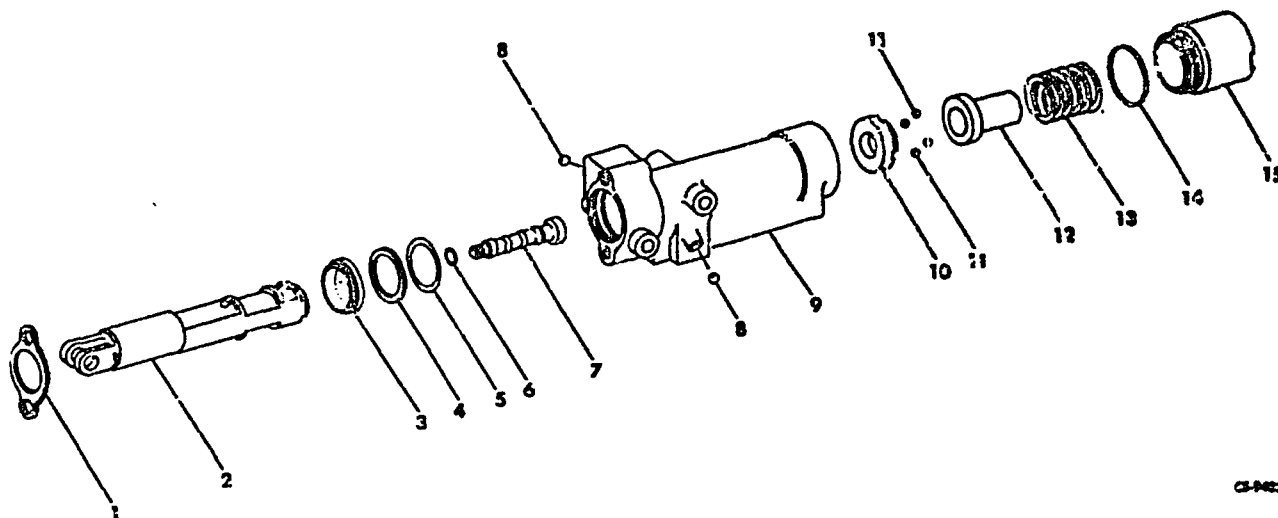
CE-9-4822

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

## HYDRAULICS

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

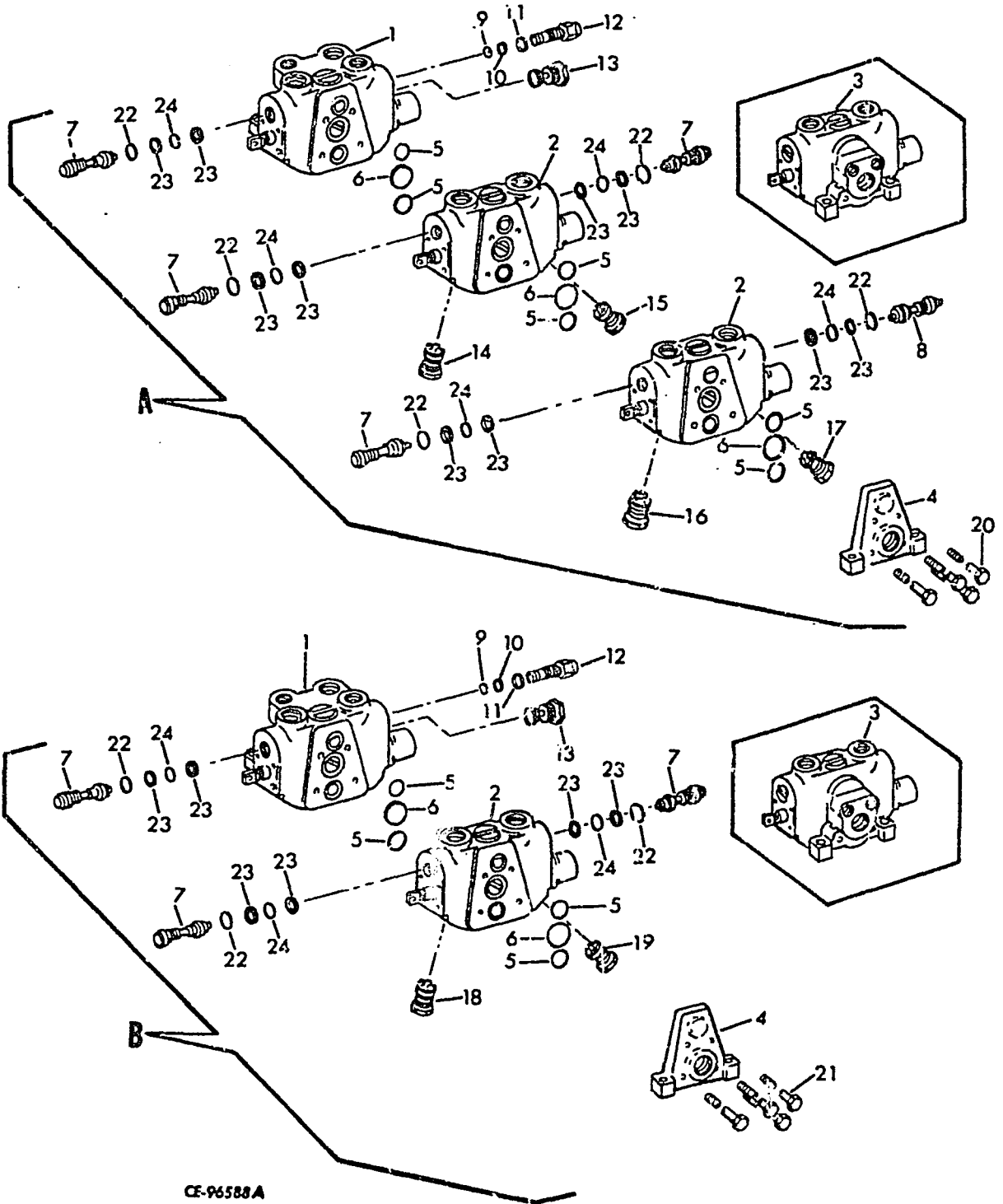


CS-140223

	622 325 C91	VALVE ASSY., pilot control		522 829 C91	PACKAGE, pilot control valve sealing ring service (X)
	617 113 C1	SPACER, mounting (4)			(Consists Of -
	24 841 R1	SCREW, hex-hd cap (4)			\$ 4 RING
	115 093	WASHER, lock (4)			\$ 1 WIPER
		(Composed of -			
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)			
15	622 332 C1	HOUSING, detent			

# HYDRAULICS

## LOADER EQUIPMENT CONTROL VALVES



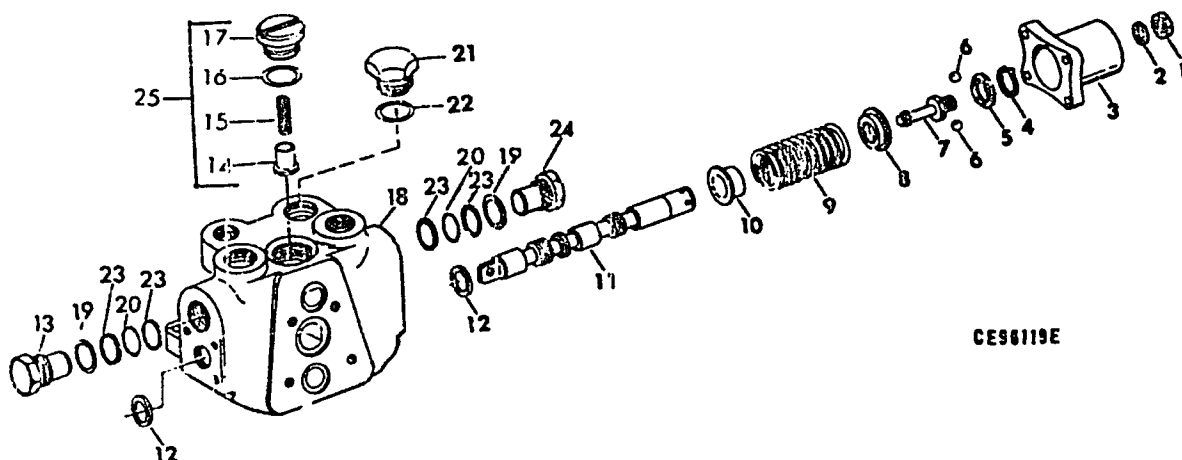
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT CONTROL VALVES - Continued</b>			14		VALVE ASSY, anti-cavitation lower (Refer to "Anti-Cavitation Valve")
A		Service parts for three spool valve	15		PLUG, lower (Refer to "Loader Equipment Control Valve Standard and Outlet Section") (If equipped)
B		Service parts for two spool valve	16		PLUG, lower (Refer to "Loader Equipment Control Valve Standard and Outlet Section") (If equipped)
	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		SECTION, inlet (Refer to "Equipment Control Valve Inlet Section")	17		PLUG, lower (Refer to "Loader Equipment Control Valve Standard and Outlet Section") (If equipped)
2		SECTION, standard (Refer to "Equipment Control Valve Standard and Outlet Section")	18		VALVE ASSY, anti-cavitation lower (Refer to "Anti-Cavitation Valve")
2		SECTION, standard w/electric detent (Part of Bucket Self Leveling Attachment) (Refer to "Equipment Control Valve Standard and Outlet Section with Electric Detent")	19		PLUG, lower (Refer to "Loader Equipment Control Valve Standard and Outlet Section") (If equipped)
			20	187 491	SCREW, hex-hd cap (4 for Valve A)
				120 381	WASHER, lock (4)
3		SECTION, outlet (Refer to "Equipment Control Valve Standard and Outlet Section")	21	186 284	SCREW, hex-hd cap (4 for Valve B)
				120 381	WASHER, lock (4)
3		SECTION, outlet w/electric detent (Part of Bucket Self Leveling Attachment) (Refer to "Equipment Control Valve Standard and Outlet Section with Electric Detent")	22	343 900 R1	RING, seal (See NOTE at end of list)
4	625 194 C1	PLATE, end (Not used w/backhoe models)	23	631 240 C1	RING, back-up (See NOTE at end of list) (2)
4	631 486 C1	PLATE, end (Used w/backhoe models)	24	625 096 C1	RING, seal (See NOTE at end of list)
5	384 376 R1	RING, seal (See NOTE at end of list) (4 for Valve A, 2 for Valve B)		9 410 363	PLUG (Not Furnished as Part of Valve) (2)
6	391 733 R1	RING, seal (See NOTE at end of list) (2 for Valve A, 1 for Valve B)		296 247 R1	"O" RING (Not Furnished as Part of Valve) (2)
7	662 180 C1	CARTRIDGE ASSY w/RING, 625 096 C1, RING, 343 900 R1 and two RING, 631 240 C1, relief (4 for Valve A, 3 for Valve B)	NOTE - Not Furnished Separately. Part Number Listed to Show Location of Part. Order Seal Kit Required. See "Alphabetical Index" for Location of Seal Kits.		
8	662 181 C1	CARTRIDGE ASSY w/o "O" RING, 625 096 C1, "O" RING, 343 900 R1 and two RING, 631 240 C1, relief (1 for Valve A)			
9	393 349 R1	RING, seal (See NOTE at end of list)			
10	877 737 C1	RING, back-up (See NOTE at end of list)			
11	297 459 R1	RING, seal (See NOTE at end of list)			
12	625 908 C1	CARTRIDGE ASSY, relief			
13		VALVE ASSY, anti-cavitation upper (Refer to "Anti-Cavitation Valve")			

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### LOADER EQUIPMENT CONTROL VALVE INLET SECTION



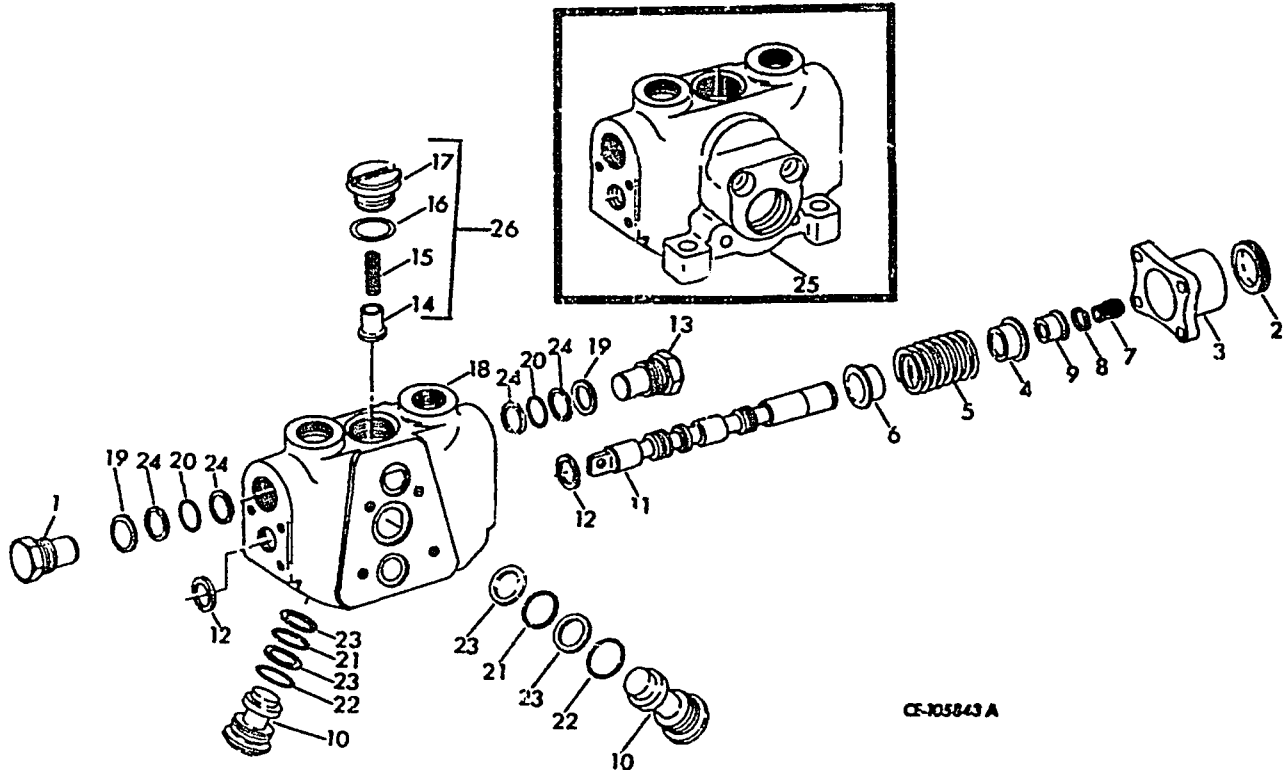
	625 900 C92	SECTION, equipment control valve inlet (Composed of -	18	\$	BODY, valve
1	272 122	NUT, NF jam	19	343 900 R1	RING, seal (See NOTE at end of list) (2)
2	121 621	WASHER, lock	20	625 096 C1	RING, seal (See NOTE at end of list)
3	625 179 C1 114 357 121 637	BONNET, float SCREW, fl-soc-hd mach (4) WASHER, lock (4)	21	625 191 C1	PLUG, outlet (See NOTE at end of list)
4	269 181 R1	RING, snap	22	625 192 C1	SEAL, plug
5	625 180 C1	RETAINER, detent ball	23	631 240 C1	RING, back-up (See NOTE at end of list)
6	17 007 R1	BALL, detent (4)	24	631 924 C1	PLUG, upper
7	625 182 C2	ADAPTER, float detent	25	631 932 C92	CHECK VALVE ASSY., load
8	625 181 C1	COLLAR, detent stop		625 903 C1	KIT, internal section seal (Consists of -
9	625 183 C1	SPRING, centering		\$ 2 RING	625 178 C1
10	625 184 C1	COLLAR, stop		\$ 1 RING	669 588 R1
11	\$	SPOOL, float			
12	\$	SEAL, quad ring (Order KIT, 625 903 C1) (2)			
13	631 924 C1	PLUG, upper			
14	\$	POPPET, lift check			
15	\$	SPRING, lift check			
16	\$	RING, seal (Order KIT, 625 903 C1)			
17	\$	PLUG, 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 Kit.

## HYDRAULICS

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



CE-105843 A

A		SECTION, outlet (Order the following - 1 SECTION           631 770 C91 1 KIT                625 912 C1 TRACTORS w/o BACKHOE 1 PLATE             625 194 C1 TRACTORS w/BACKHOE 1 PLATE             631 486 C1 1 ADAPTER         9 410 207 1 RING              296 247 R1)			8   625 317 C1   WASHER, lock 9   625 313 C1   COLLAR, spool 10  631 928 C1   PLUG, lower (2) 11   \$            SPOOL, float 12  \$            SEAL, quad ring (Order KIT, 625 903 C1) (2)
B	631 770 C1	SECTION, equipment control valve standard (Composed of -			13  631 924 C1   PLUG, upper part 14  \$            POPPET, lift check 15  \$            SPRING, lift check 16  \$            RING, seal (Order KIT, 625 903 C1) 17  \$            PLUG, lift check 18  \$            BODY, valve (B)
1	631 924 C1	PLUG, upper part			19  343 900 R1   RING, seal (See NOTE at end of list) (2)
2	625 309 C1	DIAPHRAGM, bonnet			20  625 096 C1   RING, seal (See NOTE at end of list) (2)
3	625 313 C1 114 357 121 637	BONNET, float SCREW, fl-soc-hd mach (4) WASHER, lock (4)			
4	625 314 C1	COLLAR, stop			
5	625 319 C1	SPRING, centering			
6	625 314 C1	COLLAR, stop			
7	426 368	SCREW, hex-soc-hd			

## HYDRAULICS

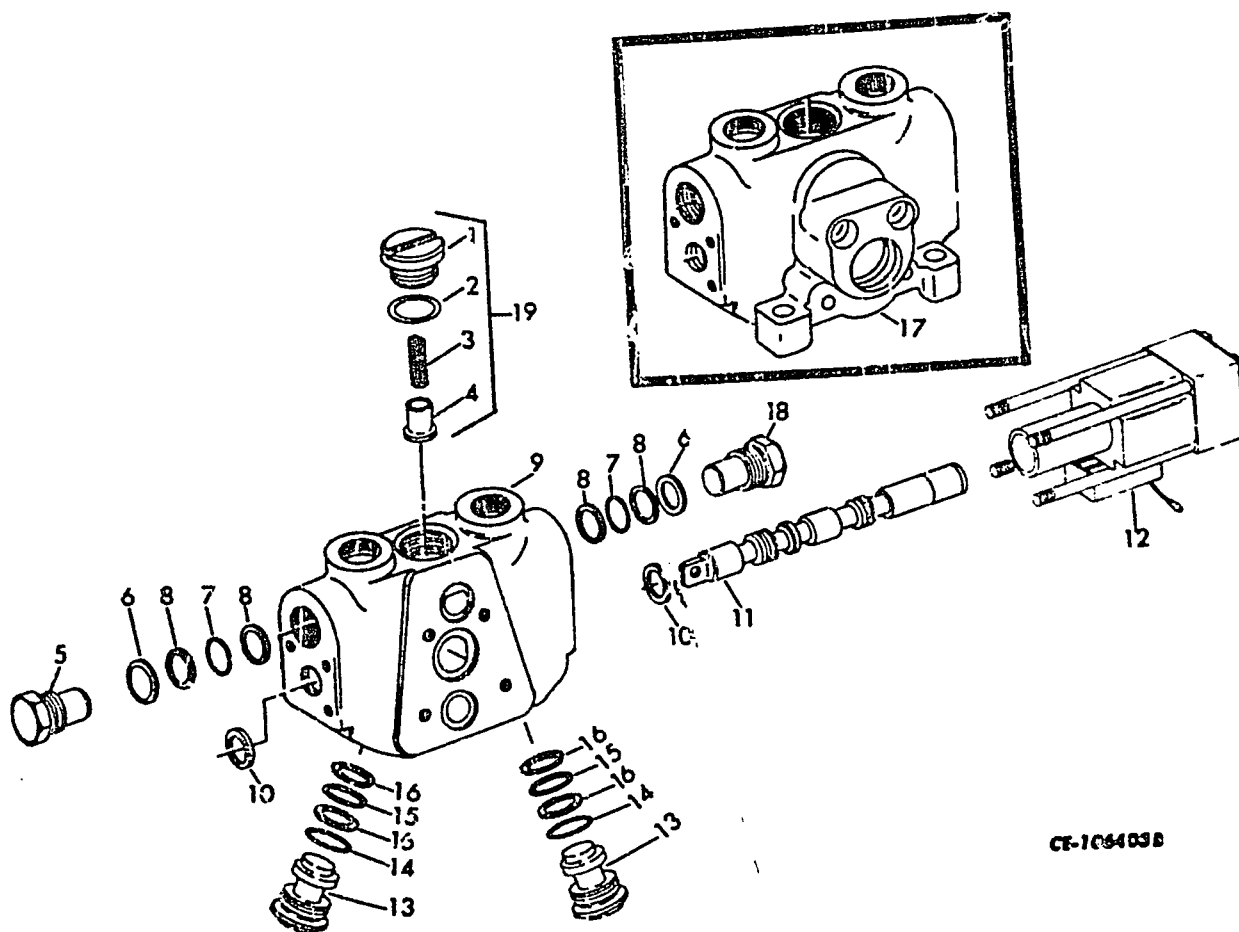
REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT CONTROL VALVE STANDARD AND OUTLET SECTION - Continued</b>		
21	384 943 R1	RING, seal (See NOTE at end of list) (2)
22	187 518 H1	RING, seal (See NOTE at end of list) (2)
23	631 243 C1	WASHER (See NOTE at end of list) (4)
24	631 240 C1	WASHER (See NOTE at end of list) (4)
25		BODY, valve (Not Furnished Separately) (A)
26	631 932 C92	CHECK VALVE ASSY., load
	625 903 C1	KIT, internal section seal (Consists of - \$ 2 RING            625 176 C1 \$ 1 RING            669 588 R1

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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### LOADER EQUIPMENT CONTROL VALVE STANDARD AND OUTLET SECTION W/ELECTRIC DETENT



A		SECTION, outlet w/electric detent release (Order the following - 1 SECTION 631 768 C91 1 KIT 625 912 C1 TRACTORS w/o BACKHOES 1 PLATE 625 194 C1 TRACTORS w/BACKHOE 1 PLATE 631 486 C1 1 ADAPTER 9 410 207 1 RING 296 247 R1)	6	343 900 R1	RING, seal (See NOTE at end of list)
			7	625 096 C1	RING, seal (See NOTE at end of list)
			8	631 240 C1	WASHER (See NOTE at end of list) (2)
			9	\$	BODY, valve (B)
			10	\$	SEAL, quad ring (Order KIT, 625 903 C1) (2)
B	631 768 C91	SECTION, standard w/electric detent (Composed of -	11	\$	SPOOL, float
1	\$	PLUG, lift check (2)	12		DETENT, electric release (Refer to "Electric Release Detent")
2	\$	RING, seal (Order KIT, 625 903 C1)	13	631 928 C1	PLUG, lower (If equipped) (2)
3	\$	SPRING, lift check	14	393 349 R1	RING, seal (See NOTE at end of list) (2)
4	\$	POPPET, lift check			
5	631 924 C1	PLUG, upper			



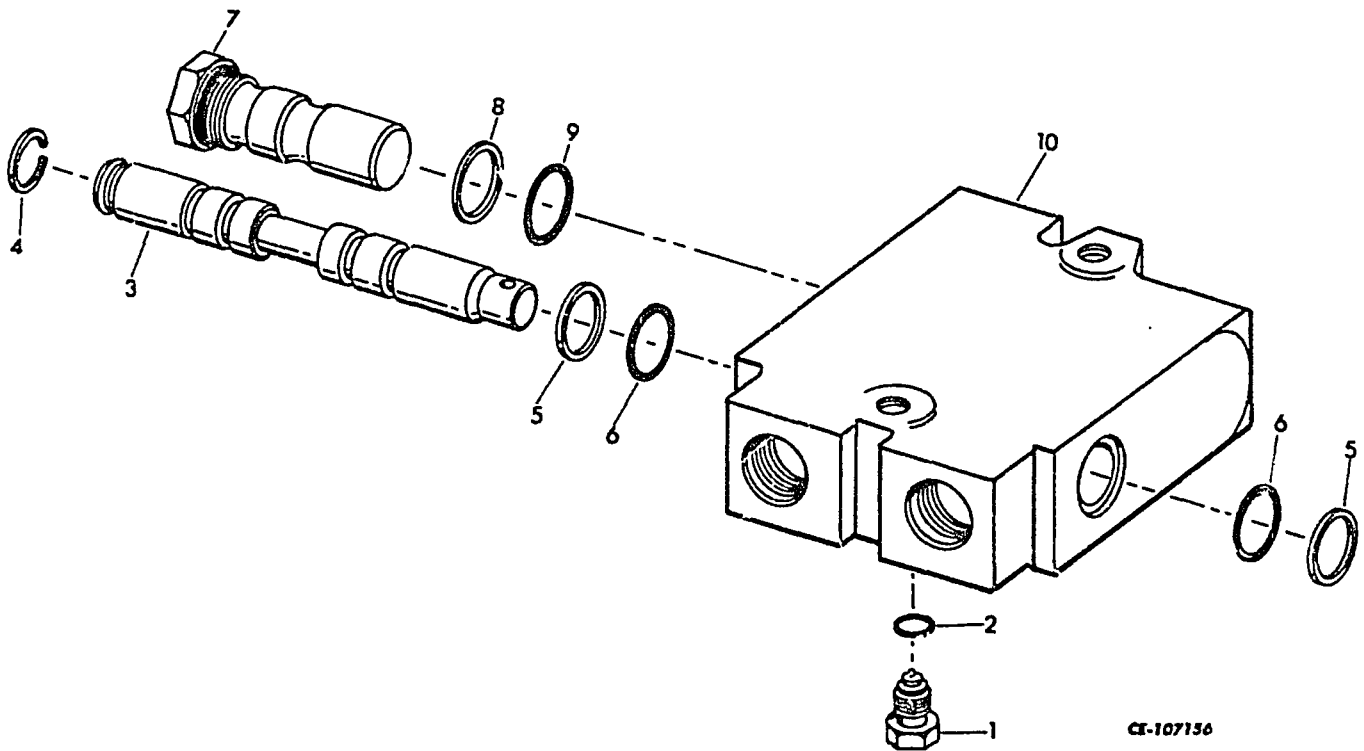
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>LOADER EQUIPMENT CONTROL VALVE STANDARD AND OUTLET SECTION W/ELECTRIC DETENT - Continued</b>			<b>LOADER EQUIPMENT CONTROL VALVE SEAL KIT</b>		
15	384 943 R1	RING, seal (See NOTE at end of list) (2)	625 911 C2		KIT, master seal (For three spool valves) (Consists of -
16	631 243 C1	WASHER (See NOTE at end of list) (4)			\$ 1 RING 625 192 C1
17	\$	BODY, valve (A)			\$ 3 RING 669 588 R1
18	631 024 C1	CARTRIDGE, relief			\$ 1 RING 625 186 C1
19	631 932 C1	CHECK VALVE ASSY., load			\$ 1 RING 355 966 R1
		KIT, internal section seal (Consists of -			\$ 1 RING 877 737 C1
		\$ 2 RING 625 176 C1			\$ 2 RING 187 518 H1
		\$ 1 RING 669 588 R1)			\$ 4 RING 343 900 R1
		NOTE - Not Furnished Separately. Part Number Listed to Show Location of Part. Order Seal Kit Required. See "Alphabetical Index" for Location of Seal Kits.			\$ 4 RING 625 096 C1
					\$ 2 RING 384 376 R1
					\$ 1 RING 391 733 R1
					\$ 4 RING 625 176 C1
					\$ 1 RING 384 943 R1
					\$ 8 RING 631 240 C1
					\$ 2 RING 631 243 C1)
			625 910 C2		KIT, master seal (For two spool valves) (Consists of -
					\$ 1 RING 625 192 C1
					\$ 3 RING 669 588 R1
					\$ 1 RING 625 186 C1
					\$ 1 RING 355 966 R1
					\$ 1 RING 877 737 C1
					\$ 2 RING 187 518 H1
					\$ 4 RING 343 900 R1
					\$ 4 RING 625 096 C1
					\$ 2 RING 384 376 R1
					\$ 1 RING 391 733 R1
					\$ 4 RING 625 176 C1
					\$ 1 RING 384 943 R1
					\$ 8 RING 631 240 C1
					\$ 2 RING 631 243 C1 )
			625 913 C2		KIT, upper option port seal (6 for 3 spool valve; 4 for 2 spool valve) (Consists of -
					\$ 1 RING 343 900 R1
					\$ 1 RING 625 096 C1
					\$ 2 RING 631 240 C1)
			625 912 C1		KIT, between sections seal (2 or 3 spool; 1 or 2 spool) (Consists of -
					\$ 2 RING 384 376 R1
					\$ 1 RING 391 733 R1)
			625 914 C2		KIT, lower anti-cavitation seal (2 for 3 spool; 1 for 2 spool) (Consists of -
					\$ 1 RING 384 943 R1
					\$ 1 RING 187 518 H1
					\$ 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 Backhoe Model 3142 Series A)  
(6782 and below)

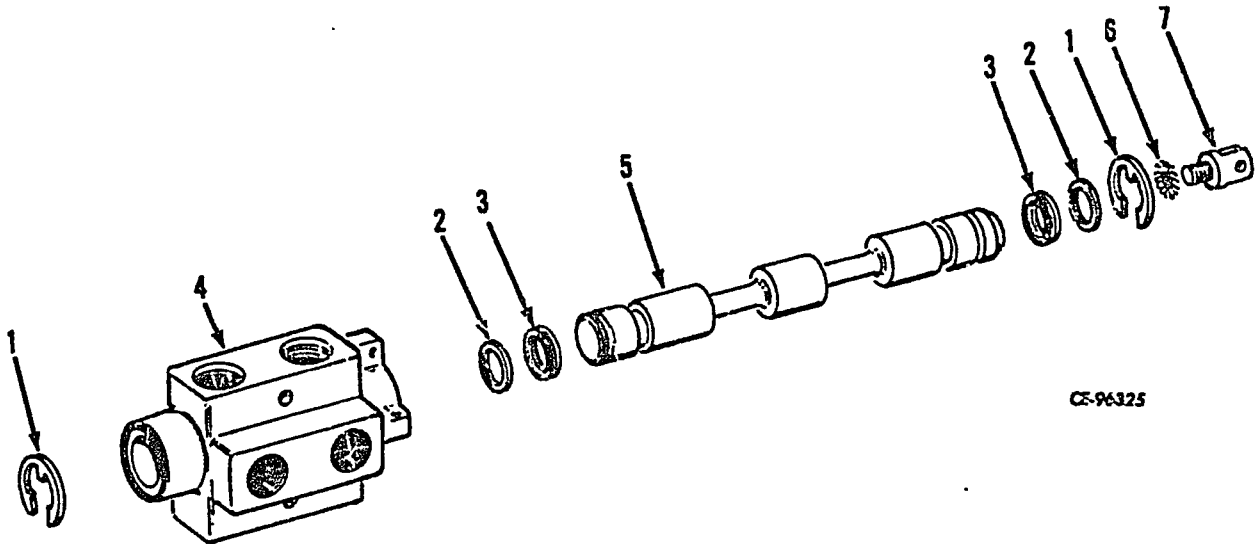


	662 152 C91	VALVE ASSY, diverter (Consists of -		631 233 C91	KIT, seal repair (Consists of -
1	631 232 C91	PLUG ASSY, spool detent			\$ 1 "O" RING, plug detent
2		"O" RING, (Order KIT, 631 233 C91)			\$ 1 "O" RING, relief plug
3		SPOOL, (Order VALVE ASSY, 662 152 C91)			3 "O" RING 364 879 R1
4	362 260 R1	RING, snap			2 WASHER, back-up spool
5		WASHER, back-up (Order KIT, 631 233 C91) (2)			1 WASHER, back-up 535 606 R1)
6	364 879 R1	"O" RING, (Part of KIT, 631 233 C91) (2)			
7	537 859 R91	PLUG ASSY, relief			
8	535 606 R1	WASHER, back-up (Part of KIT, 631 233 C91)			
9		"O" RING, (Order KIT, 631 233 C91)			
10		BODY (Order VALVE ASSY, 662 152 C91)			

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION
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### DIVERTER VALVE



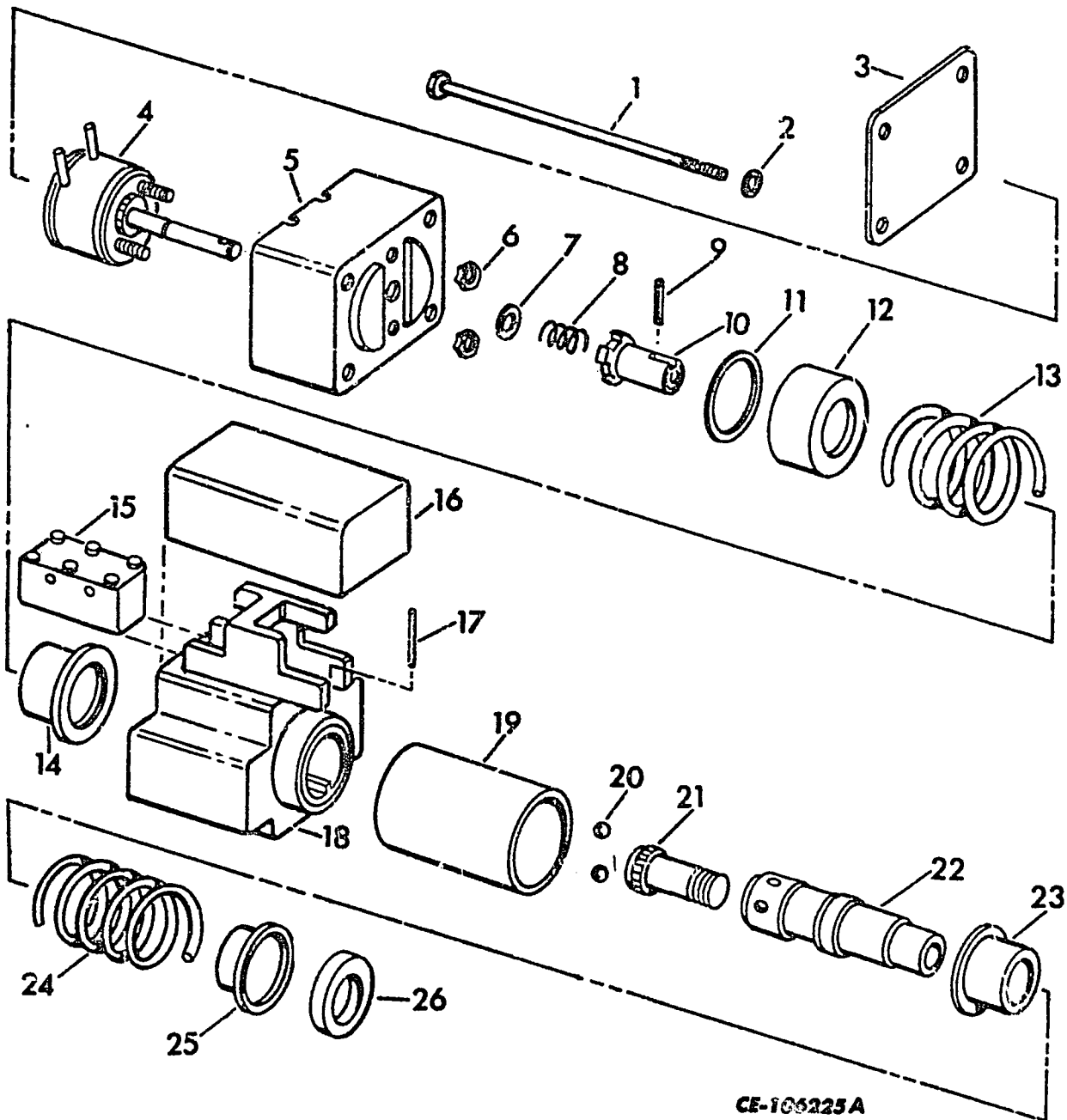
CE-96325

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

# HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**ELECTRIC RELEASE DETENT**  
(Part of Bucket Self-Leveling Attachment)



**CE-106225 A**

631 760 C91	DETENT, electric release (Composed of -	3		COVER, solenoid (Not Furnished Separately)
1	SCREW, hex-hd cap (Not Furnished Separately) (4)	4	631 765 C1	SOLENOID, rotary
2	WASHER, flat (Not Furnished Separately) (4)	5		BODY, solenoid (Not Furnished Separately)

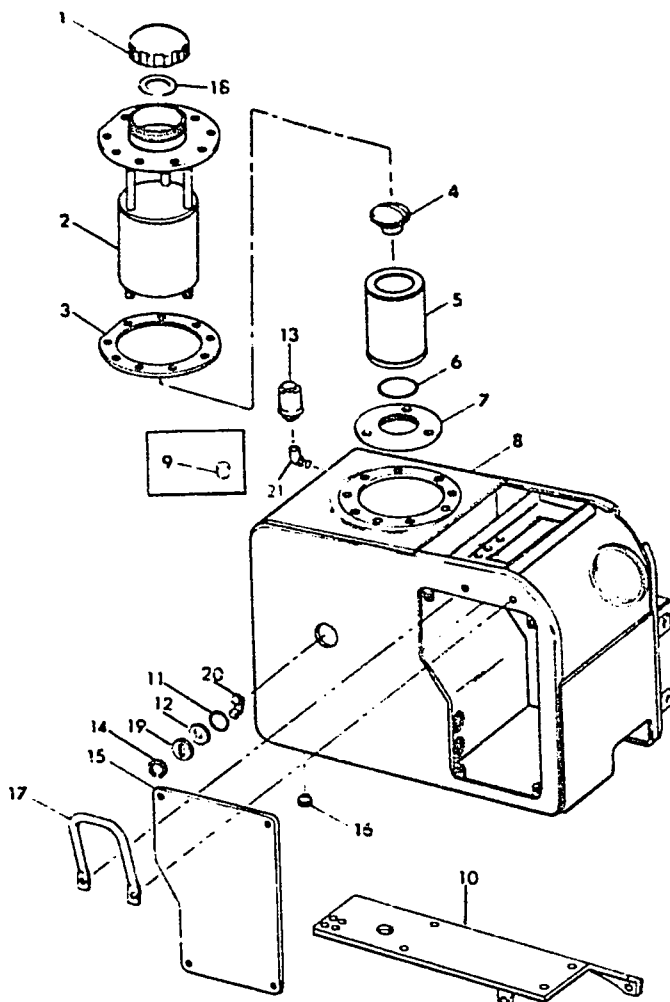
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ELECTRIC RELEASE DETENT - Continued</b> (Part of Bucket Self-Leveling Attachment)					
6		NUT (Not Furnished Separately) (2)			
7		RING, retainer (Not Furnished Separately)			
8	631 767 C1	SPRING			
9		PIN, spring (Not Furnished Separately)			
10		RAMP, pin (Not Furnished Separately)			
11		SHIM (Not Furnished Separately)			
12		SEAT, detent (Not Furnished Separately)			
13	631 766 C1	SPRING			
14		STOP, spring (Not Furnished Separately)			
15	631 764 C1 637 445 C1	SWITCH, miniature DIODE, switch			
16	631 759 C1	COVER, switch			
17	631 761 C1	NEEDLE, roller			
18		BODY, detent (Not Furnished Separately)			
19		SLEEVE, body (Not Furnished Separately)			
20	17 009 R1	BALL (4)			
21		SCREW, shoulder (Not Furnished Separately)			
22		GUIDE, ball (Not Furnished Separately)			
23		STOP, spring (Not Furnished Separately)			
24	625 319 C1	SPRING, centering			
25		STOP, spring (Not Furnished Separately)			
26	634 889 C1	RING, pilot			
	631 762 C1	EYELET, electrical (Solenoid ground wire)			
	631 763 C1	EYELET, electrical (Switch to solenoid wire)			

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### RESERVOIR AND RELATED PARTS



8	666 187 C1	RESERVOIR, hydraulic (For backhoe models)	8	706 825 C1	RESERVOIR, hydraulic (Will work for RESERVOIR, 666 185 C1. Also used w/backhoe models 6783 and up)
	24 873 R1	SCREW, hex-hd cap (3)		24 873 R1	SCREW, hex-hd cap (4)
	25 537 R1	WASHER, flat (3)		25 537 R1	WASHER, flat (4)
9	104 938	PLUG, No. 2 cork (2)	9	104 938	PLUG, No. 2 cork (2)
		6782 and below			6782 and below
10	668 199 C3	BRACKET, reservoir support	10	668 199 C3	BRACKET, reservoir support
	24 890 R1	BOLT (2)		24 890 R1	BOLT (2)
	25 548 R1	WASHER, hardened (2)		25 548 R1	WASHER, hardened (2)
11	22 288 R1	"O" RING	11	22 288 R1	"O" RING
12	656 104 C1	LENSE, sight gauge	12	656 104 C1	LENSE, sight gauge
13	657 882 C91	VALVE, vacuum pressure relief (See KIT, 883 170 C91) (Optional w/ VALVE, 659 078 C91)	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)	13	659 078 C91	VALVE, vacuum pressure relief (Optional w/VALVE, 657 882 C91)
14	23 914 R1	RING, snap	14	23 914 R1	RING, snap
15	626 378 C1	PLATE, access	15	626 378 C1	PLATE, access
		6782 and below			6782 and below
	24 860 R1	SCREW, hex-hd cap (5)		24 860 R1	SCREW, hex-hd cap (5)
	115 093	WASHER, lock (5)		115 093	WASHER, lock (5)
15	706 827 C1	PLATE, access (Not used w/three-spool backhoe models)	15	706 827 C1	PLATE, access (Not used w/three-spool backhoe models)
		6783 and up			6783 and up
	25 496 R1	SCREW, hex-hd cap (4)		25 496 R1	SCREW, hex-hd cap (4)
	115 093	WASHER, lock (4)		115 093	WASHER, lock (4)
15	707 048 C1	PLATE, access (Part of HYDRAULIC CONVERSION PACKAGE, 710 268 C91)	15	707 048 C1	PLATE, access (Part of HYDRAULIC CONVERSION PACKAGE, 710 268 C91)
16	280 668 R91	PLUG, magnetic	16	280 668 R91	PLUG, magnetic
17	621 741 C1	HANDLE, assist	17	621 741 C1	HANDLE, assist
		6782 and below			6782 and below
	24 860 R1	SCREW, hex-hd cap (2)		24 860 R1	SCREW, hex-hd cap (2)
	116 121	WASHER, lock (2)		116 121	WASHER, lock (2)
17	334 664 R1	HANDLE, assist	17	334 664 R1	HANDLE, assist
		6783 and up			6783 and up
	25 496 R1	SCREW, hex-hd cap (2)		25 496 R1	SCREW, hex-hd cap (2)
	15 093	WASHER, lock (2)		15 093	WASHER, lock (2)
18	618 688 C2	GASKET, filter cap	18	618 688 C2	GASKET, filter cap
19	656 105 C1	WASHER, guard (Replaces 656 475 C1)	19	656 105 C1	WASHER, guard (Replaces 656 475 C1)
20	656 106 C1	REFLECTOR	20	656 106 C1	REFLECTOR
21	141 621	ELBOW	21	141 621	ELBOW
		6733 and up			6733 and up

1	701 922 C2	CAP w/GASKET, 618 688 C2, filler
2	623 011 C1	SHROUD, filter
	140 483	SCREW, hex-hd cap (9)
	115 093	WASHER, lock (9)
3	623 012 C1	GASKET, shroud
4	386 121 R92	VALVE, by-pass
5	623 017 C1	ELEMENT, filter
6	254 091 R1	"O" RING
7	656 340 C1	PLATE, filter retainer
	18 423 R1	NUT, Esna lock (3)
8	666 185 C1	RESERVOIR, hydraulic (For all models w/o backhoe) (Order RESERVOIR, 706 825 C1)
		6782 and below

CE-105839A

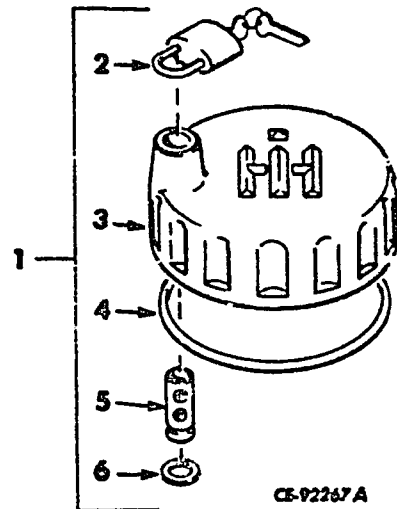
## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**RESERVOIR AND RELATED PARTS - Continued**

883 170 C91	KIT, seal repair (For VALVE 657 882 C91) (Consists of - \$ 1 RING, lock \$ 1 SEAL, filter \$ 1 SEAL, poppet \$ 1 SEAL, sleeve
9 410 363	PLUG, 1" tube (For all models except backhoe) 6783 and up
296 247 R1	"O" RING, plug

**LOCKING CAP**



1	628 156 C91	CAP ASSY., 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	RING, retaining (Optional w/RING, 300 027 R1)
4	300 027 R1	RING, retaining (Optional w/RING, 309 056 R1)
5		PIN, locking cap (Not Furnished Separately)
6	23 221 R1	RING, retaining

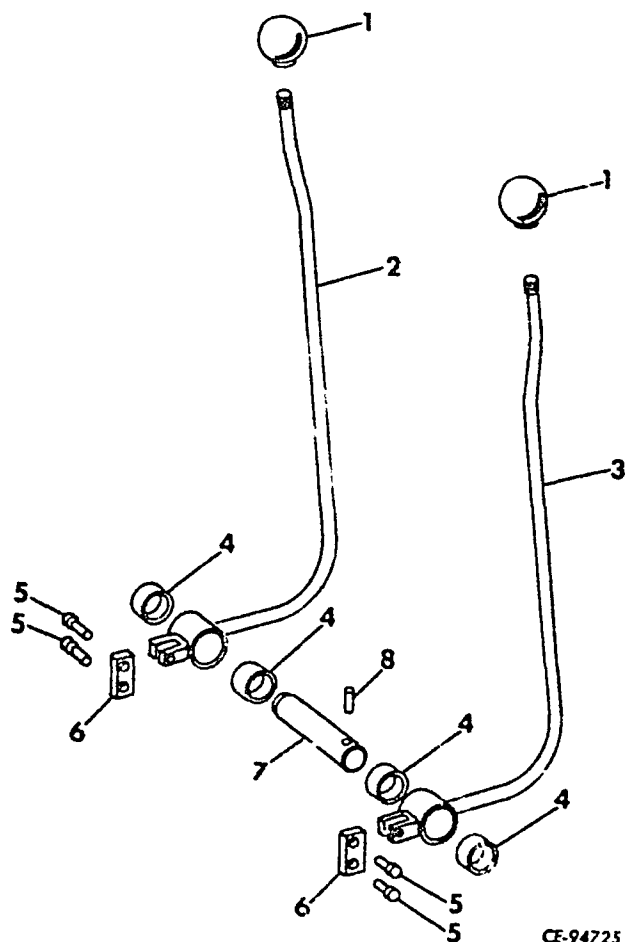




## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION
<b>BUCKET SELF-LEVELING ATTACHMENT - Continued</b>		
122 316 R91	CLAMP	(On tilt cylinder rod end tube) (Used w/HARNESS, 663 216 C2) (2)
311 500 R1	CLAMP	(On tilt cylinder head end hose) (Used w/HARNESS, 663 216 C2)
306 132 C1	STRAP	(Harness mount) (12 used w/HARNESS, 663 216 C1; 11 used w/HARNESS, 663 216 C2)
737 303 C1	VARISTOR	

REF. NO.	PART NUMBER	DESCRIPTION
<b>STEERING CONTROLS</b>		

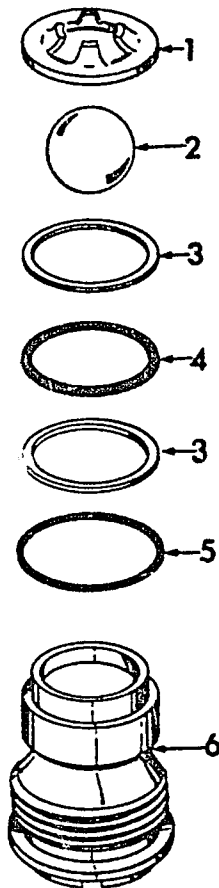


1	264 097 R2	BALL, hand lever (2)
2	622 033 C91	LEVER, w/two BEARING, 621 050 C91 - LH steering hand
3	622 034 C91	LEVER, w/two BEARING, 621 050 C91 - RH steering hand
4	621 050 C91	BEARING (4)
5	432 759 435 864	PIN, rod end (4) PIN, cotter (4)
6	621 052 C1	LINK, steering lever (2)
7	621 051 C1	SHAFT,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

## HYDRAULICS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**ANTI-CAVITATION VALVE**



CS-106473

5	393 349 R1	RING, seal (See NOTE at end of list) (A)
5	343 900 R1	RING, seal (See NOTE at end of list) (B)
6		BODY, (Order VALVE ASSEMBLY)

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

A	631 242 C1	VALVE ASSY, lower anti-cavitation
B	631 241 C1	VALVE ASSY, upper anti-cavitation (Composed of -
1		SEAT, ball (Order VALVE ASSEMBLY)
2		BALL, check (Order VALVE ASSEMBLY)
3	631 243 C1	RING, back-up (See NOTE at end of list) (2 for A)
3	631 240 C1	RING, back-up (See NOTE at end of list) (2 for B)
4	384 943 R1	RING, seal (See NOTE at end of list) (A)
4	625 096 C1	RING, seal (See NOTE at end of list) (B)

REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS

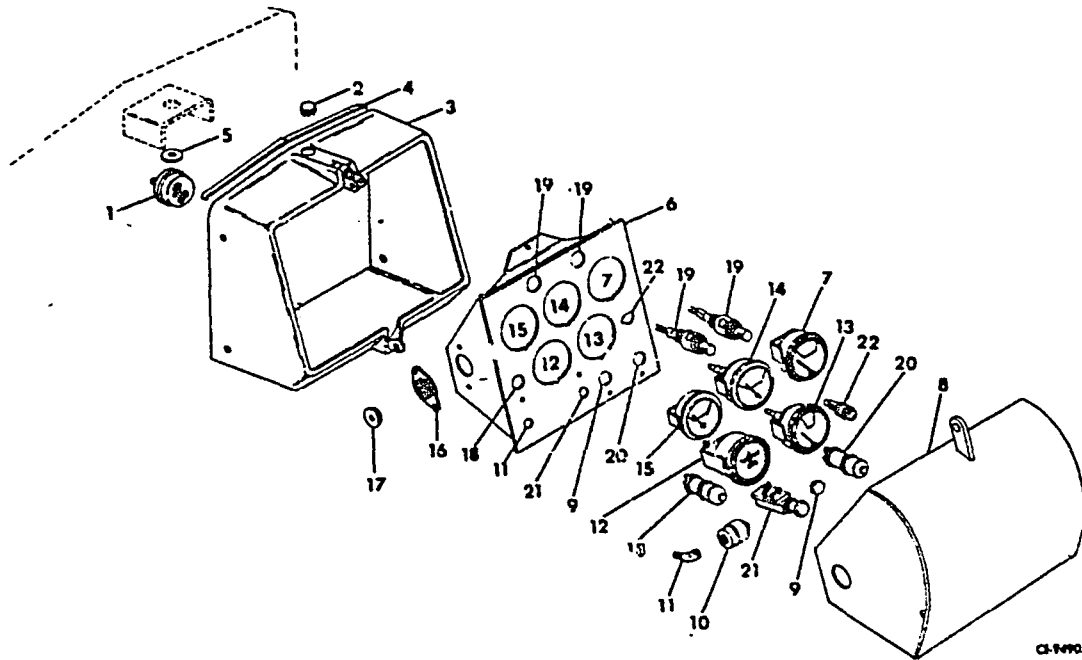
INSTRUMENTS

11

## INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### INSTRUMENTS AND INSTRUMENT PANEL (6683 and below)

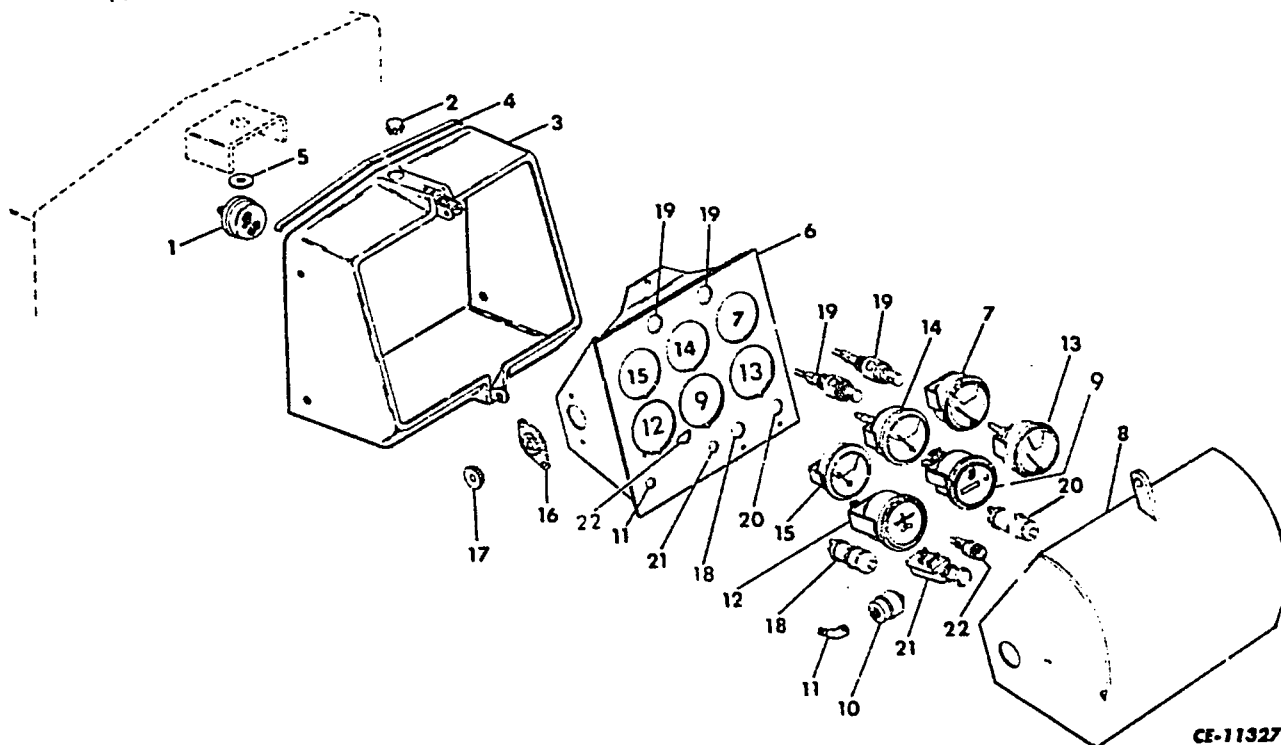


1	663 392 C1	SWITCH, hour meter pressure		384 554 R1	CLIP (On cylinder head cover front and rear bolts) (2)
2	432 327	PLUG, instrument panel opening		63 323 D	GROMMET (In dash)
				702 093 C1	STRAP (On engine oil cooler pipe) (2)
3	621 639 C91	HOUSING, w/SEAL, 621 646 C1, instrument panel	14	706 000 C1	GAUGE, torque converter oil temperature (Replaces 619 817 C91)
	26 309 R1	BOLT (4)		OR	
	25 534 R1	WASHER, flat (4)	14	715 895 C1	GAUGE, torque converter oil temperature
4	621 646 C1	SEAL, housing		23 174 R1	BUSHING, temperature gauge capillary tube to safety filter outlet tee
5	300 657 R1	WASHER, instrument panel	15	706 004 C1	GAUGE, clutch oil pressure (Replaces 619 818 C91)
6	621 647 C1	PANEL, instrument (Order PANEL, 668 411 C1, together w/PLUG, 432 577)		OR	
	19 592 R1	NUT (3)	15	715 669 C1	GAUGE, clutch oil pressure
	25 485 R1	SCREW, 1-1/4" long hex-hd cap	16	621 651 C1	MOUNT, vibration (3)
	25 487 R1	SCREW, 1-1/2" long hex-hd cap (2)		103 092	NUT (6)
				132 760	SCREW, hex-hd cap (6)
				115 544	WASHER, lock (6)
7	702 027 C1	GAUGE, engine oil pressure	17	621 652 C1	SPACER, guard (2)
8	621 653 C1	GUARD, instrument panel	18		SWITCH, ether starting (Refer to "Starting and Ether Starting Switch")
9	432 482	PLUG, ignition switch opening	19		LAMP, instrument panel (Refer to "Electric Starting and Lighting")
10	702 686 C1	INDICATOR, air cleaner filter	20		SWITCH, starting (Refer to "Starting and Ether Starting Switch")
	142 619 H	WASHER, flat	21		SWITCH, lighting (Refer to "Lighting Switch")
11	444 476	ELBOW, 90°	22		HOUSING, fuse (Refer to "Electric Starting and Lighting")
12	702 284 C1	AMMETER			
13	668 495 C1	GAUGE, engine temperature (Replaces 702 221 C1)			
	OR				
13	713 169 C1	GAUGE, engine temperature			

## INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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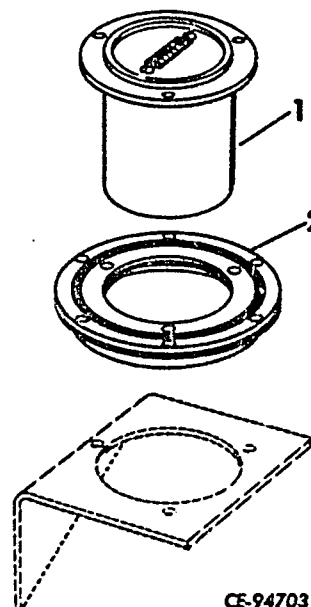
### INSTRUMENTS AND INSTRUMENT PANEL (6684 and up)



1	663 392 C1	SWITCH, hourmeter pressure	12	702 284 C1	AMMETER
2	432 327	PLUG, instrument panel opening	13	668 495 C1	GAUGE, engine temperature (Replaces 702 221 C1)
3	621 639 C91	HOUSING w/SEAL, 621 646 C1, instrument panel		OR	
	26 309 R1	BOLT (4)	13	713 169 C1	GAUGE, engine temperature
	25 534 R1	WASHER (4)		384 554 R1	CLIP (On cylinder head cover front and rear bolts) (2)
4	621 646 C1	SEAL, housing		63 323 D	GROMMET (In dash)
5	300 657 R1	WASHER, instrument panel	14	706 000 C1	GAUGE, torque converter oil temperature (Replaces 619 817 C91) 6684 to 6732
6	668 411 C1	PANEL, instrument		OR	
	19 592 R1	NUT, Esna (3)	14	715 895 C1	GAUGE, torque converter oil temperature 6684 to 6732
	25 485 R1	BOLT, 1-1/4" long		23 174 R1	BUSHING, temperature gauge capillary tube to safety filter outlet tee
	25 487 R1	BOLT, 1-1/2" long (2)		118 833	GROMMET, capillary tube
7	713 167 C1	GAUGE, engine oil pressure (Optional w/GAUGE, 706 003 C1)	14	668 499 C1	GAUGE, torque converter oil temperature (Replaces 621 659 C91) 6733 and up
7	706 003 C1	GAUGE, engine oil pressure (Optional w/GAUGE, 713 167 C1)		OR	
8	621 653 C1	GUARD, instrument panel	14	715 670 C1	GAUGE, torque converter oil temperature 6733 and up
9	709 152 C2	HOURMETER		384 559 R1	CLIP, oil temperature gauge capillary tube (On TC housing mounting flange second from top and bottom on LH side) (2)
	OR			118 833	GROMMET, capillary tube
9	740 543 C1	HOURMETER			
10	702 686 C1	INDICATOR, air cleaner filter			
	142 619 H	WASHER, flat			
11	444 476	ELBOW, 90°			

## INSTRUMENTS

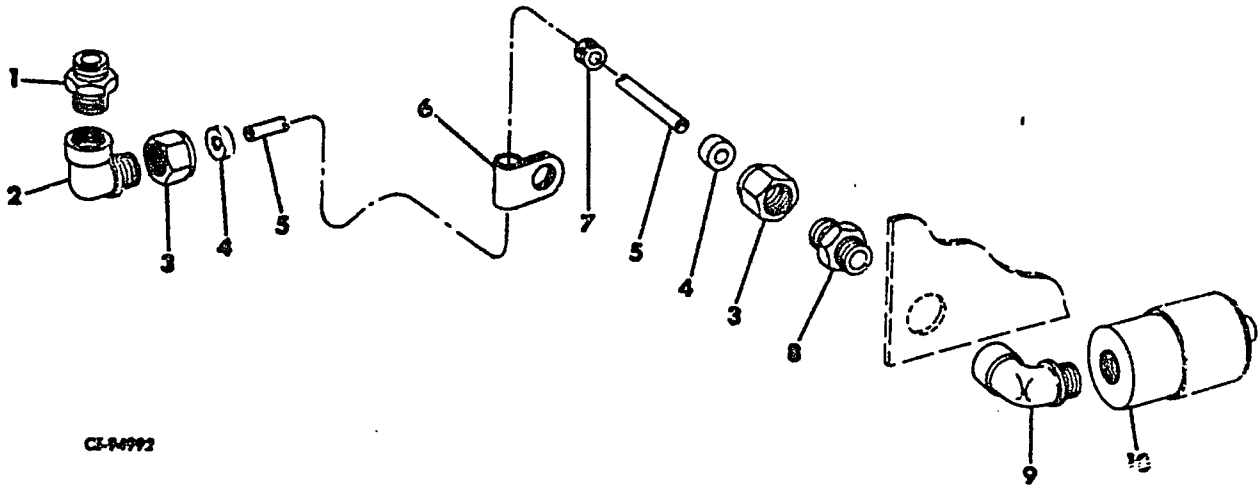
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
INSTRUMENTS AND INSTRUMENT PANEL - Continued (6624 and up)			HOURMETER (6683 and below)		
15	706 004 C1	GAUGE, clutch oil pressure			
	OR				
15	715 669 C1	GAUGE, clutch oil pressure			
15	621 651 C1	MOUNT, vibration (3)			
	103 092	NUT (6)			
	132 760	SCREW, hex-hd cap (6)			
	115 544	WASHER, lock (6)			
17	621 652 C1	SPACER, guard (2)			
18		SWITCH, ether starting (Refer to "Starting and Ether Starting Switch")			
19		LAMP, instrument panel (Refer to "Electric Starting and Lighting")			
20		SWITCH, starting (Refer to "Starting and Ether Starting Switch")			
21		SWITCH, lighting (Refer to "Lighting Switch")			
22		HOUSING, fuse (Refer to "Electric Starting and Lighting")			
			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)



## INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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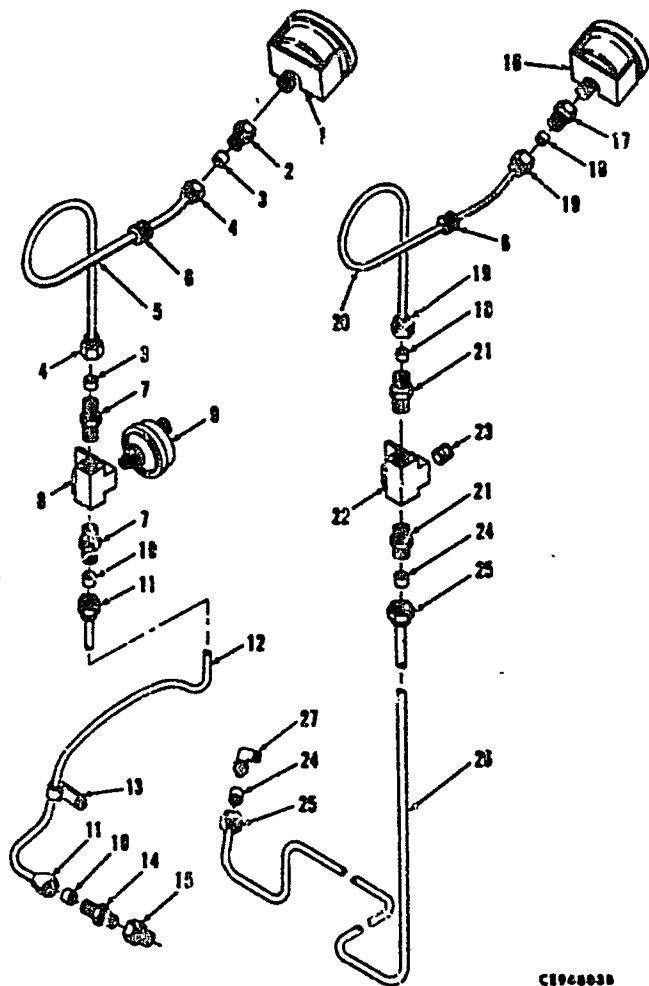
### AIR CLEANER INDICATOR PIPING



1	1 104 135 C1	NIPPLE AND FILTER, air cleaner indicator	6	365 584 R1	CLIP, tube (On top mounting of clamp for turbo inlet) (Replaces 84 611 R1)
2	610 040 C1	ELBOW, air cleaner indicator tube	7	633 23D	GROMMET
3	606 925 C1	NUT, tube (2)	8	606 999 C1	CONNECTOR
4	606 926 C1	SLEEVE, tube (2)	9		ELBOW (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 indicator	10		INDICATOR, air cleaner (Refer to "Instruments and Instrument Panel")

## INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>INSTRUMENT PIPING</b>			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	622 998 C92	TUBE, w/two NUT, 606 925 C1 and two SLEEVE, 606 926 C1, lower engine oil pressure
			13	384 5E4 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 SCREW, hex-hd cap 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	622 990 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 (6022 and up)
			27	606 927 C1	ELBOW, lower clutch oil pressure tube to regulator valve tee (6001 to 6021)
1		GAUGE, engine oil pressure (Refer to "Instruments and Instrument Panel")			
2	610 853 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 SCREW, hex-hd cap WASHER, lock			

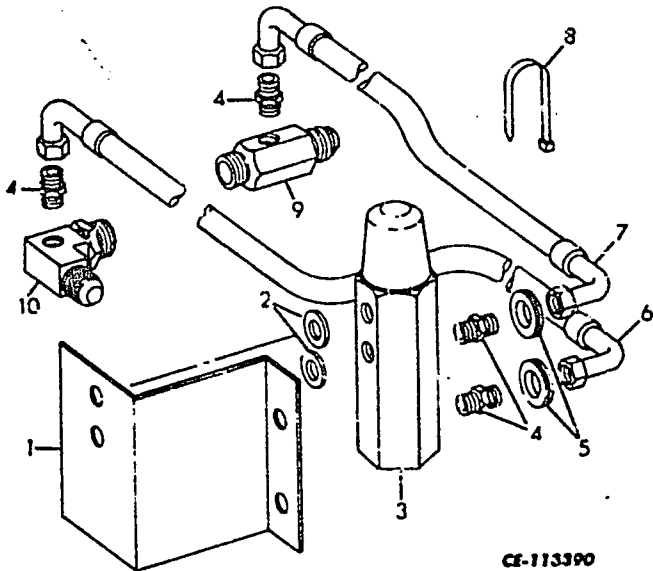


C194893



## INSTRUMENTS

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRANSMISSION PRESSURE FILTER INDICATOR AND PIPING</b>			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** 715 083 C1 BRACKET, indicator mounting
  - 25 222 R1 BOLT, 3/4" long (2)
  - 28 673 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** 9 402 708 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**

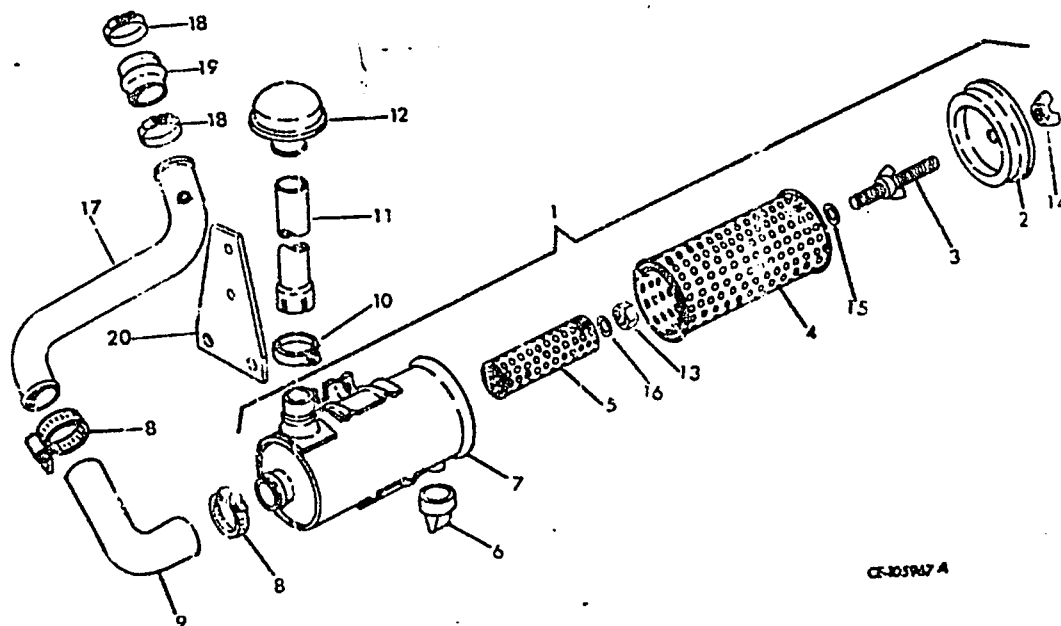
**This section does not contain engine service parts.  
For a list of service parts, refer to the EPC-239  
Parts Catalog.**



## POWER

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



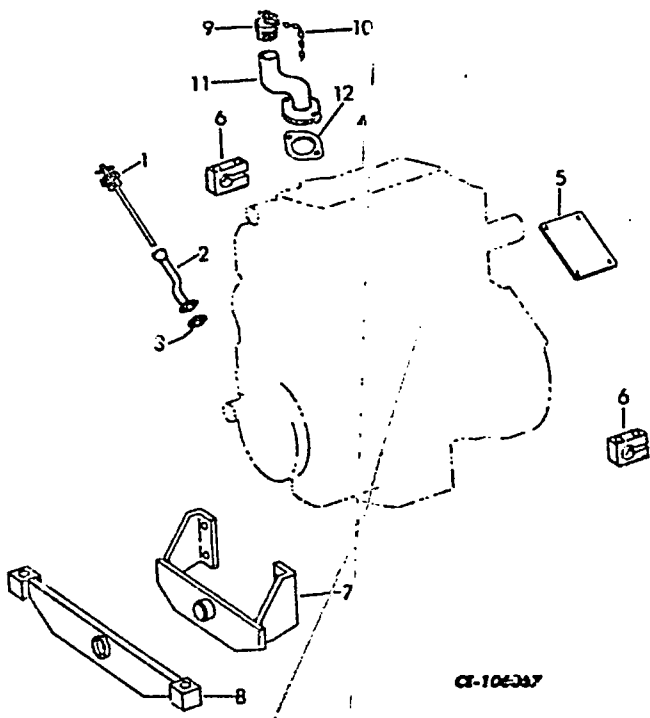
1	683 430 C93 25 794 R1 115 314 25 545 R1 24 840 R1 25 544 R1 115 093	CLEANER, air BOLT, 7/16" dia. (2) WASHER, 7/16" lock (2) WASHER, 7/16" flat (2) BOLT, 3/8" dia. (2) WASHER, 3/8" flat (2) WASHER, 3/8" lock (2)	11	622 043 C1	PIPE, air intake extension
2	631 420 C1	COVER, element	12	49 464 DA	CAP,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

## POWER

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

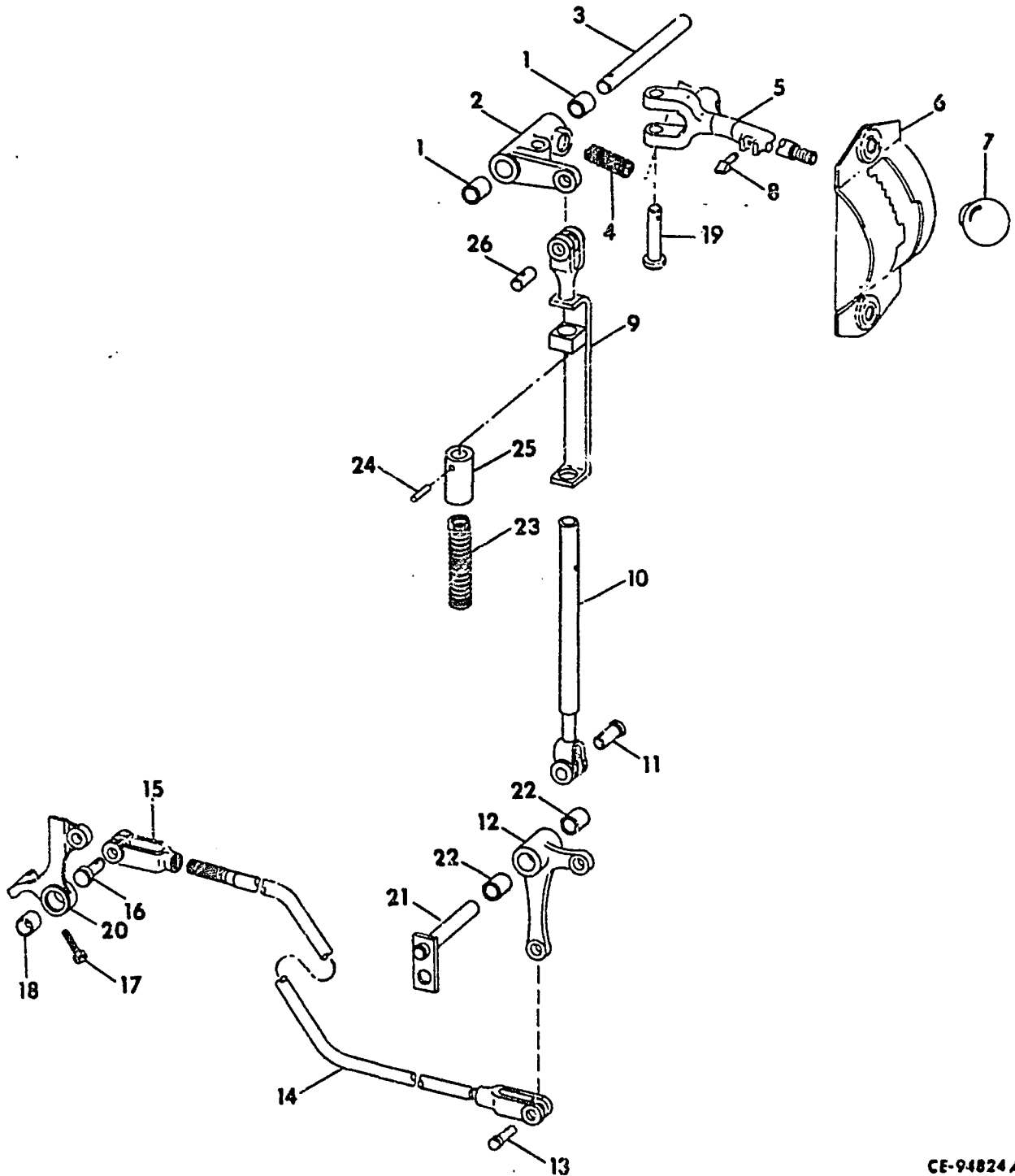
1C	426 379 138 473	CHAIN, oil filler cap SCREW, machine WASHER, ext. tooth lock (2)
11	672 530 C2	ELBOW, oil filler
12	3 136 406 R1	GASKET, oil filler elbow



1	672 521 C1	GAUGE, oil level
2	683 148 C3	SLEEVE, oil level gauge
	683 065 C1	SPACER, oil level gauge sleeve (2)
	24 840 R1	SCREW, 3/8" dia. hex-hd cap (2)
	115 093	WASHER, 3/8" lock (2)
	26 269 R1	SCREW, 2-3/4" long hex-hd cap
	24 730 R1	SCREW, 1-1/8" long hex-hd cap
	116 170	WASHER, 5/16" lock (2)
	25 543 R1	WASHER, flat
25 520 R1	NUT	
3	672 515 C1	GASKET, oil filler tube
4		DT - 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)
9	685 917 C1	CAP, oil filler

# POWER

## ENGINE AND GOVERNOR CONTROLS



CE-94824 A

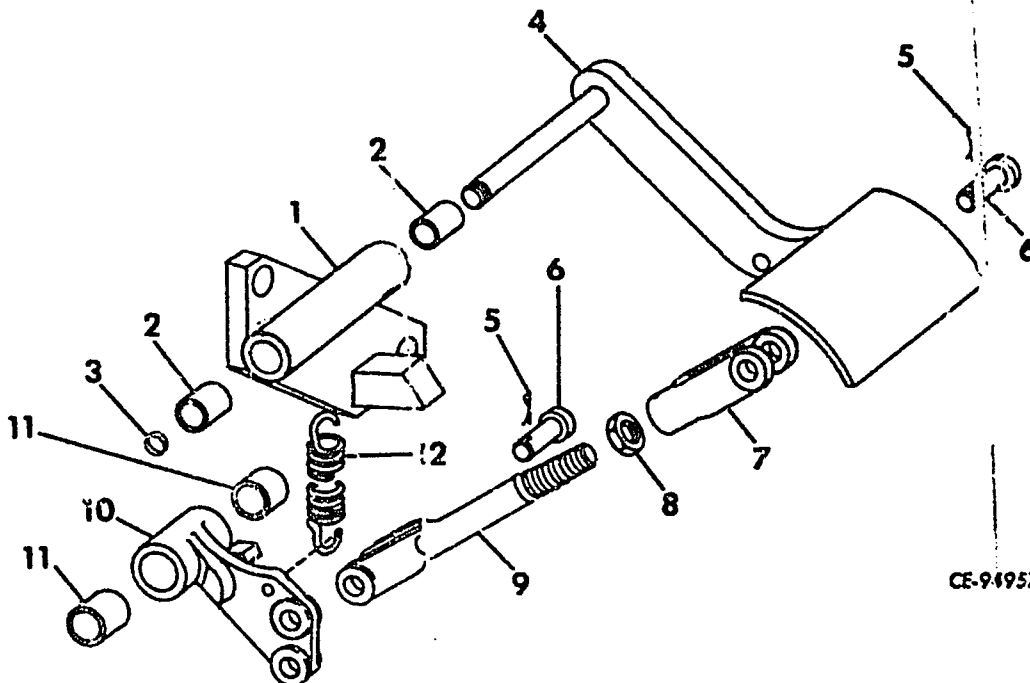
**POWER**

EF. IO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>ENGINE AND GOVERNOR CONTROLS</b>					
1	622 085 C1	BUSHING, hand lever hub (2)	21	622 114 C1	SHAFT, bellcrank
2	622 083 C91	HUB, w/two BUSHING, 622 085 C1, hand lever		25 522 R1 115 093	NUT WASHER, lock
3	622 086 C1 103 386	SHAFT, hand lever hub PIN, cotter	22	622 085 C1	BUSHING, governor control bellcrank (2)
4	261 650 R1	SPRING, hand lever	23	652 435 C1	SPRING, lever override compression
5	622 081 C91	LEVER, w/PAWL, 251 846 R1 governor control hand	24	19 938 R1	PIN, override stop block spring roll
6	622 107 C1 25 524 R1 115 314	HOUSING, governor control NUT (2) WASHER, lock (2)	25	622 093 C1	BLOCK, override spring stop
7	264 097 R2	KNOB, governor control hand lever	26	622 090 C1 103 386	PIN, override to control lever PIN, cotter
8	251 846 R1	PAWL, hand lever			
9	622 087 C1	BODY, control lever override			
10	622 109 C1	ROD, governor control lever override			
11	103 496 107 762	PIN, override to bellcrank PIN, cotter			
12	622 122 C91	BELLCRANK, w/two BUSHING, 622 085 C1, governor control			
13	103 496 107 762	PIN, injection pump rod at bellcrank PIN, cotter			
14	622 116 C1	ROD, injection pump			
15	104 038 25 934 R1	CLEVIS, injection pump rod NUT, jam			
16	103 496 107 762	PIN, injection pump rod clevis PIN, cotter			
17	652 442 C1 25 930 R1	BOLT, lever adjusting NUT, jam			
18	622 085 C1	BUSHING, injection pump lever			
19	35 229 H 107 762	PIN, governor control lever rod end PIN, cotter			
20	622 118 C91	LEVER w/bushing 622 085 C1, injection pump (Order LEVER 632 717 C91 and WASHER 18927 H)			
	103 385 Q 5 035	PIN, cotter WASHER, flat			
20	632 717 C91	LEVER w/bushing 622 085 C1, injection pump (With WASHER 18927 H will work for LEVER 622 118 C91)			
	103 385 18 927 H	PIN, cotter WASHER, flat			

# POWER

REF. NO.	PART NUMBER	DESCRIPTION
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## DECELERATOR



CE-94957

- |    |  |  |
|----|--|--|
| 1  | 622 755 C91<br>25 317 R1<br>27 406 R1<br>25 536 R1 | SUPPORT, w/two BUSHING,<br>327 465 R1, decelerator pedal<br>BOLT, patch 1-1/4"<br>BOLT, 1-3/4"<br>WASHER, hardened (2) |
| 2  | 327 465 R1   | BUSHING, support (2)   |
| 3  | 324 653 R1   | RING, snap   |
| 4  | 652 019 C1   | PEDAL, decelerator   |
| 5  | 107 762  | PIN, cotter (2)  |
| 6  | 103 496  | PIN, rod end (2)   |
| 7  | 104 038  | CLEVIS, adjustable   |
| 8  | 25 934 R1  | NUT, NF jam  |
| 9  | 622 127 C1   | ROD, foot pedal  |
| 10 | 622 129 C91  | LEVER, w/two BUSHING,<br>622 065 C1, override actuating  |
| 11 | 622 065 C1   | BUSHING, lever (2)   |
| 12 | 300 486 R1   | SPRING, foot pedal return  |

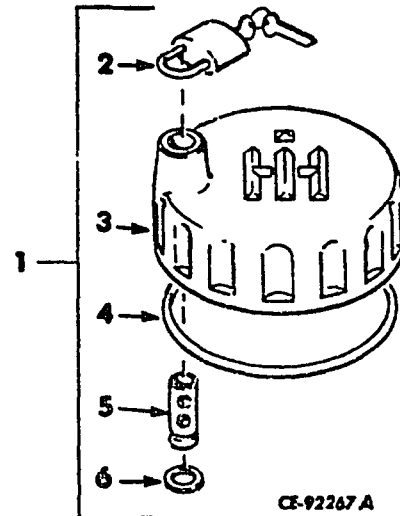
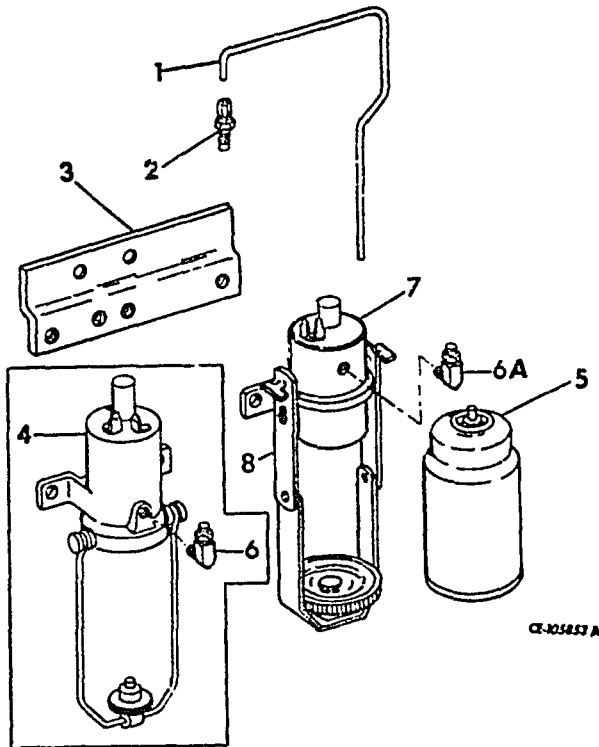
## POWER

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

### LOCKING CAP



- |    |  |  |
|----|--|--|
| 1  | 622 980 C1                                       | TUBE, ether  |
| 2  | 650 866 C1                                       | NOZZLE, ether (Mounted on Intake Manifold)   |
| 3  | 628 113 C1<br>24 841 R1<br>115 093<br>617 113 C1 | BRACKET, ether injector mounting<br>SCREW, hex-hd cap (2)<br>WASHER, lock (2)<br>SPACER, ether bracket (2)                                     |
| 4  | 533 231 R92<br>25 493 R1<br>116 120              | INJECTOR, electric ether (Order INJECTOR, 736 459 C92)<br>BOLT (2)<br>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<br>BOLT (2)<br>WASHER, lock (2)  |
| 8  | 736 473 C1                                       | BAIL, ether solenoid   |

- |   |             |   |
|---|-------------|---|
| 1 | 628 156 C91 | CAP ASSY., fuel 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  | RING, retaining (Optional w/RING, 300 027 R1)                     |
| 4 | 300 027 R1  | RING, retaining (Optional w/RING, 309 056 R1)                     |
| 5 |             | PIN, locking cap (Not Furnished Separately)                       |
| 6 | 23 221 R1   | RING, retaining   |

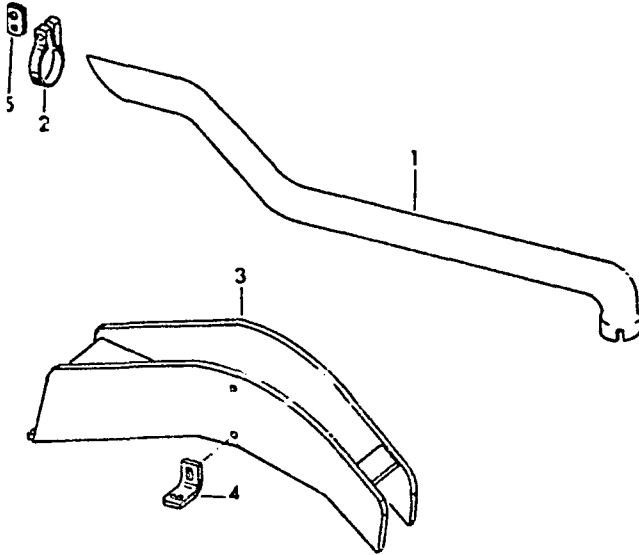




## POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### EXHAUST PIPE EXTENSION



CE-103916

5	652 863 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" (%)

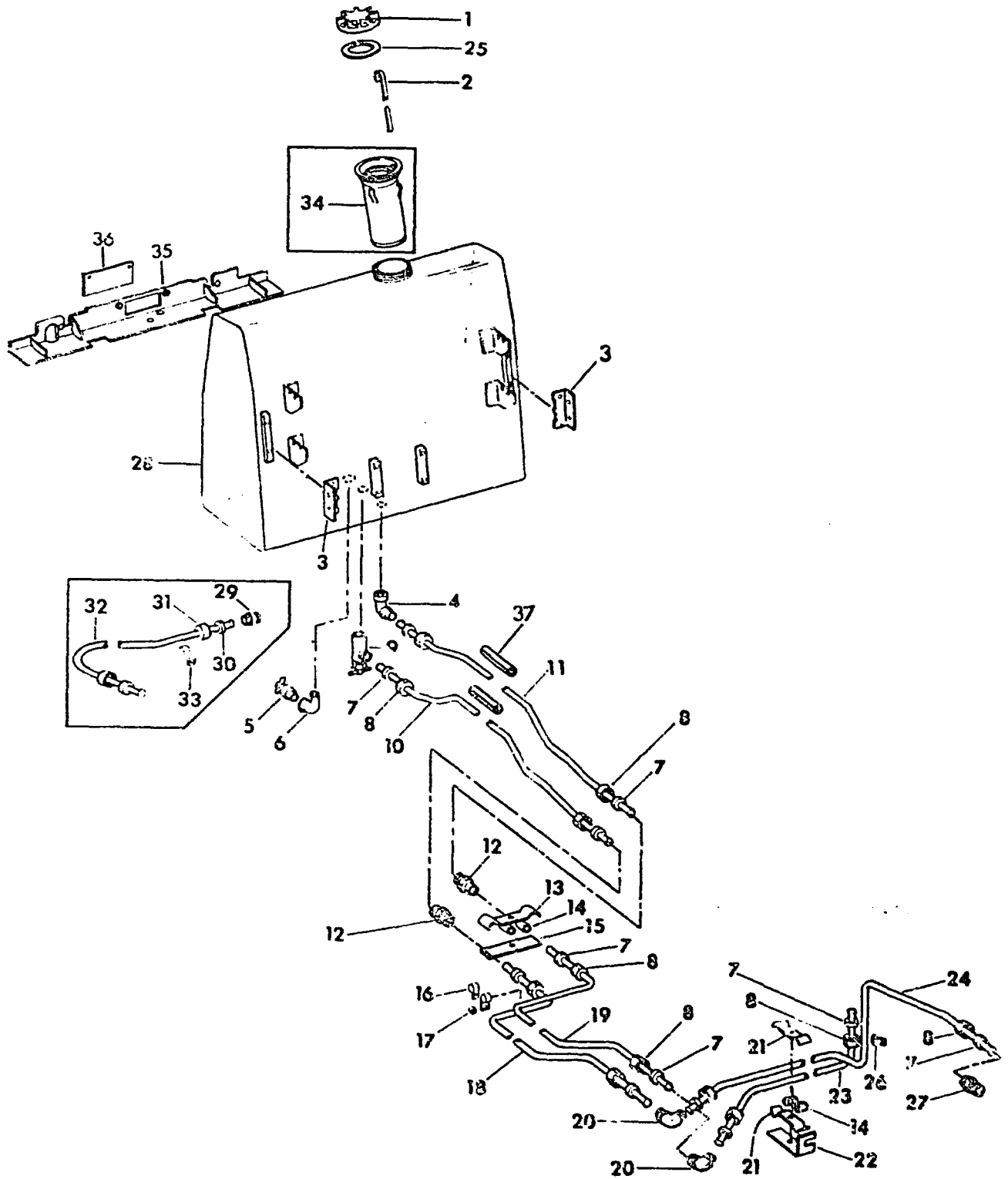
635 378 C91 ATTACHMENT, exhaust pipe extension (Machine must be equipped w/ROPS canopy) (Not used w/706 490 C1) (Part of forestry PACKAGE, 632 764 C92) (See NOTE 1)  
(Consists of -

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)
	708 001 C1	STRIP, back-up
	24 861 R1	SCREW, 1-1/4" long hex-hd cap (2)
	24 862 R1	SCREW, 1-1/2" long hex-hd cap (2)
	25 526 R1	NUT (4)
	25 546 R1	WASHER, flat (4)

(%) - Used w/exhaust pipe extension ATTACHMENT, 632 749 C91.

# POWER

## FUEL TANK, MOUNTING AND PIPING



C81062451

## POWER

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
FUEL TANK, MOUNTING AND PIPING - Continued			22	653 701 C1	BRACKET, fuel line clamp mounting (On engine air cleaner mounting SCREW)
1	701 922 C2	CAP w/GASKET, 618 688 C2, fuel tank filler	23	622 770 C91	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, front fuel return
2	611 409 C1	DIPSTICK, fuel tank	24	653 699 C91	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, front fuel supply
3	621 626 C1 25 547 R1 24 872 R1	ANGLE, tank mounting (2) WASHER, hardened (8) SCREW, hex-hd cap (8)	25	619 688 C2	GASKET, fuel tank filler cap
4	333 774 R1	ELBOW, fuel return tube at tank	26	263 514 R91	CLAMP, fuel tube (On ether starting bracket on engine)
5	31 729 D	VALVE, fuel tank drain	27	606 819 C1	CONNECTOR, fuel tube to filter
6	265 024 R1	ELBOW, drain tube at tank (For backhoe models)	28	621 594 C92 24 886 R1 136 11 - VA	TANK, w/CAP, 701 922 C1, fuel SCREW, hex-hd cap (2) WASHER, hardened (2)
7	265 204 R1	SLEEVE, tube (12)	28	621 578 C91	TANK, w/CAP, 701 922 C1, fuel tank (For backhoe models)
8	265 205 R1	NUT, tube (12)	29	645 304 C1	CONNECTOR, drain tube at drain valve (For backhoe models)
9	650 443 C92	VALVE, fuel tank shutoff	30	265 066 R1	SLEEVE, tube (2)
10	622 766 C91	TUBE, w/two NUT, 265 205 R1, two SLEEVE, 265 204 R1, and HOSE, 632 207 C1, rear fuel supply	31	265 067 R1	NUT, 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	32	624 999 C91	TUBE, w/two NUT, 265 067 R1 and two SLEEVE, 265 066 R1, fuel tank drain extension (For backhoe models)
12	603 867 C1	UNION, fuel return or supply tubes (2)	33	645 303 C1	CLIP, fuel tank drain tube (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		25 522 R1 24 840 R1 115 093	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)		275 635 R1 25 546 R1 525 927 R2	
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	36	706 158 C1 26 310 R1 25 534 R1	COVER, access (Part of ATTACHMENT, 706 165 C91) SCREW, hex-hd cap (2) WASHER (2)
19	653 557 C1 632 207 C1	TUBE, w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, fuel return HOSE, tube protector	37	632 207 C1	HOSE, tube protector (2)
20	610 694 C1	ELBOW, fuel return or supply tubes (2)		706 165 C91	ATTACHMENT, fuel tank bottom guard (Part of Forestry Package, 532 764 C92) (See NOTE 1)
21	66 352 D 262 038 R1 114 355	CLAMP, tube (On bracket) (2) NUT, speed SCREW, slt-fil-hd mach			

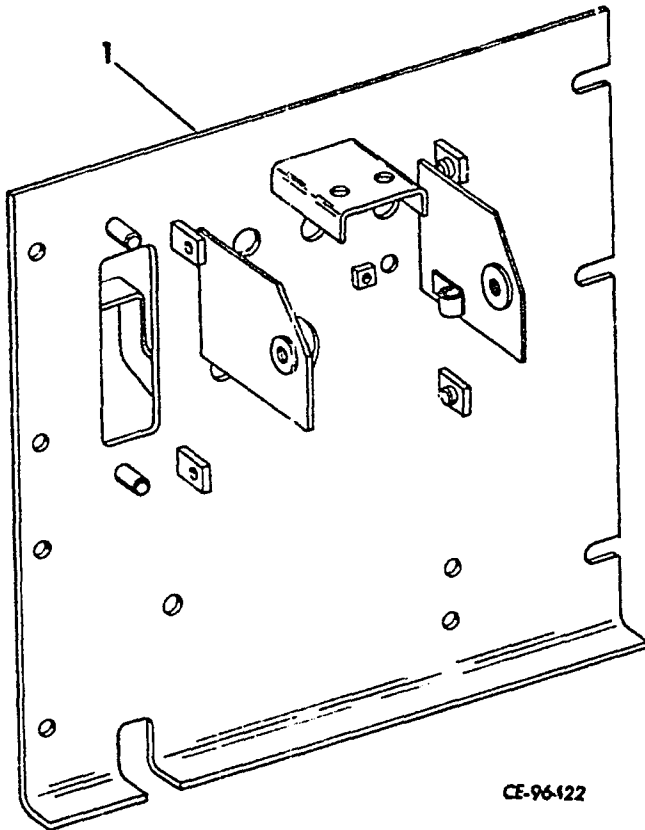
**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**

**SUPERSTRUCTURE 13**

# SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION
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DASH



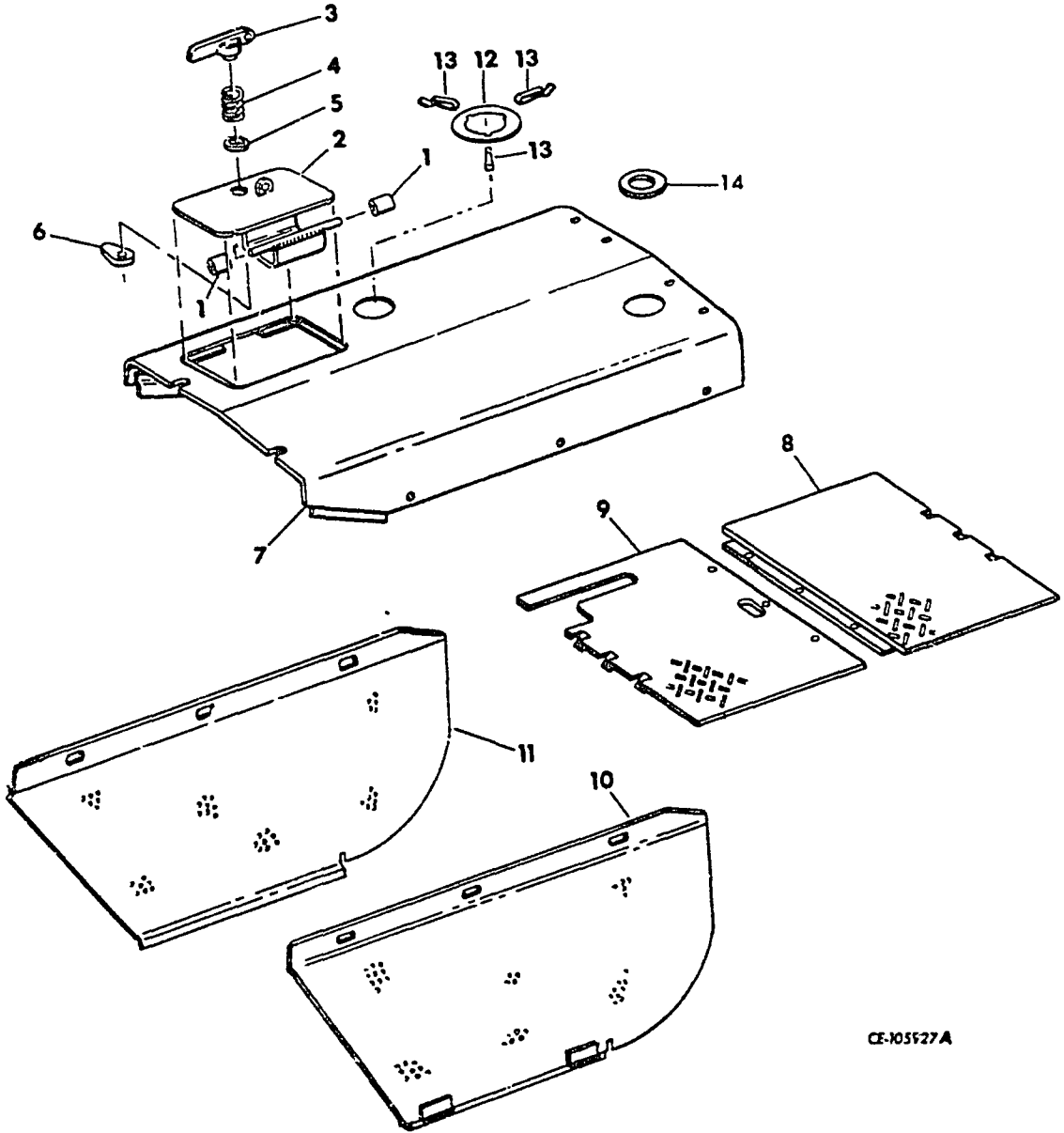
CE-96422

1	622 075 C2 26 317 R1 26 318 R1 25 555 R1	DASH BOLT, patch 1-1/4" (2) BOLT, 1-1/2" (4) WASHER (6)
432 607		PLUG, dash button (Optional w/ PLUG, 432 610) (Not used w/ transmission pressure filter indicator ATTACHMENTS) (2)
432 610		PLUG, dash button (Optional w/ PLUG, 432 607) (Not used w/ transmission pressure filter indicator ATTACHMENTS) (2)

# SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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**HOOD, HOOD SIDE DOORS AND PLATFORMS**



CF-105527A

1	565 405 R1	TUBE, access door hinge (2)	3	622 539 C1	HANDLE, access door locking
2	653 099 C91	DOOR ASSY., hood access (Composed of -	4	562 008 R1	SPRING, access door locking handle
		1 HANDLE	5	92 779 R1	WASHER, door locking handle thrust
		1 PAWL			
		1 SPRING			
		1 WASHER			

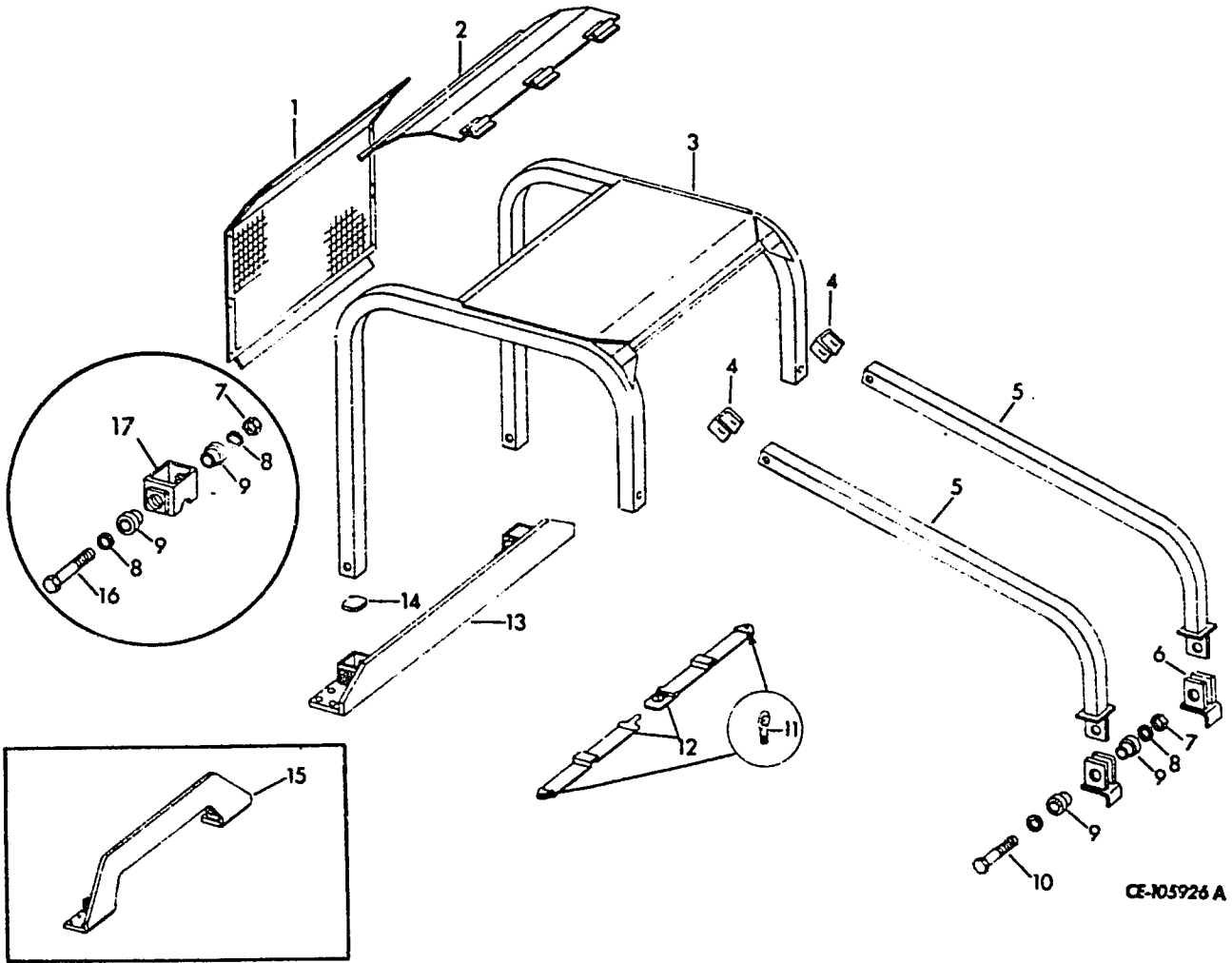




# SUPERSTRUCTURE

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



CE-105926 A

A	622 509 C91	ATTACHMENT, seat belt (See NOTE 3)	G	632 563 C91	ATTACHMENT, roof extension (Part of Forestry Package, 632 764 C92) (See NOTE 1)
B	632 560 C91	ATTACHMENT, canopy (Rollover Protective Structure) w/seat belt (See NOTE 2)	1	705 550 C1	SCREW, rear (F)
C	632 561 C91	ATTACHMENT, canopy rear mount (Standard) (Not for backhoe models) (See NOTE 2)		24 869 R1	SCREW, hex-hd cap (6)
D	632 562 C91	ATTACHMENT, canopy rear mount (Arched) (See NOTE 2)		25 555 R1	WASHER (12)
E	632 565 C92	ATTACHMENT, front sweeps (Part of Forestry Package, 632 764 C92) (See NOTE 2)		25 526 R1	NUT (6)
F	632 564 C91	ATTACHMENT, rear screen (Not for backhoe models) (Part of Forestry Package, 632 764 C92) (See NOTE 2)	2	705 551 C1	PLATE, rod extension (G)
				24 869 R1	SCREW, hex-hd cap (2)
				25 555 R1	WASHER, flat (6)
				25 526 R1	NUT (2)
			3		CANOPY (Rollover Protective Structure) (B)

## SUPERSTRUCTURE

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>CANOPY, FRONT SWEEPS, MOUNTS AND SAFETY SEAT BELT - Continued</b>					
4	668 768 C1	CHANNEL, sweeps (2 for E) (Order the following parts -			
		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 )	
4	712 620 C1	CHANNEL, sweeps (2 for E)			
	24 896 R1	BOLT (2)			
	9 413 983	NUT, lock (2)			
	25 538 R1	WASHER, flat (4)			
5	668 762 C1	SWEEPS, front (2 for E) (Order the following parts -			
		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 )	
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	BOLT, seat belt eye (A and B) (2)			
	273 896	NUT, lock (2)			
	25 555 R1	WASHER, hardened (2)			
12	636 888 C1	BELT, seat (Replaces 702 248 C3) (A and B)			
	24 860 R1	BOLT (2)			
	9 412 230	NUT (2)			
	103 342	WASHER, flat (2)			
	25 555 R1	WASHER, hardened (2)			
13	668 690 C1	MOUNT, canopy standard (C)			
	24 892 R1	SCREW, hex-hd cap (8)			
	25 548 R1	WASHER, flat (16)			
	25 529 R1	NUT (8)			
14	951 360 R1	PAD, socket (4 for B)			
15	668 753 C1	MOUNT, canopy arched (D)			
	24 892 R1	SCREW, hex-hd cap (8)			
	25 548 R1	WASHER, flat (16)			
	25 529 R1	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**

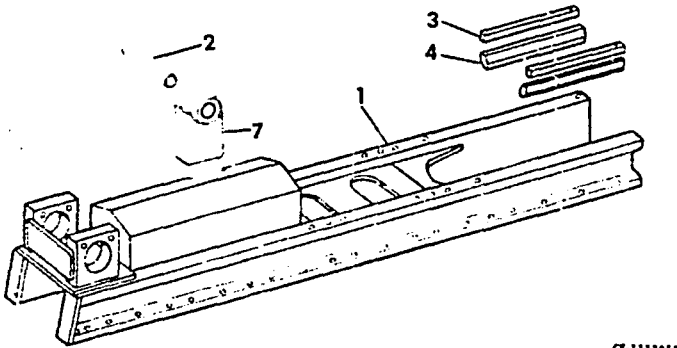
**SUSPENSION**

**14**

## SUSPENSION

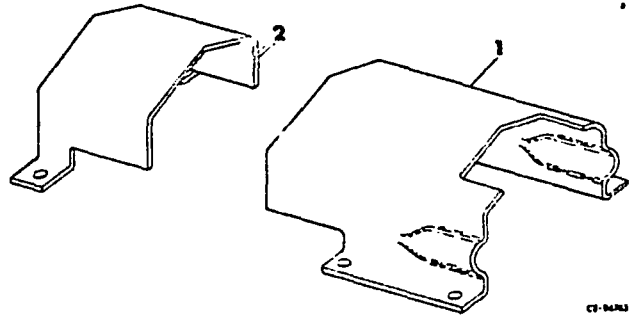
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>FRONT CROSS BAR</b>			1	645 682 C92	FRAME, RH w/idler shaft, track (Composed of - 2 BAR 621 338 C1 2 BAR 622 221 C1 2 BLOCK 621 371 C1 1 BRACKET 622 651 C1 \$ 1 FRAME \$ 1 PLATE 1 SHAFT 621 383 C1 )
			2	621 383 C1	SHAFT, track idler (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)
1	621 560 C1	PIN, front crossbar mounting (2)			
2	621 561 C2 24 888 R1 25 548 R1	CROSSBAR, front SCREW, hex-hd cap (16) WASHER, flat (16)			
3	338 159 R1	RING, front crossbar mounting snap (4)			
4	338 160 R2	RING, front crossbar wear (4)			

### TRACK FRAME



1	645 681 C92	FRAME, LH w/idler shaft, track (Composed of - 2 BAR 621 338 C1 2 BAR 622 221 C1 2 BLOCK 621 371 C1 1 BRACKET 622 651 C1 \$ 1 FRAME \$ 1 PLATE 1 SHAFT 621 383 C1 )
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### TRACK FRAME COVER

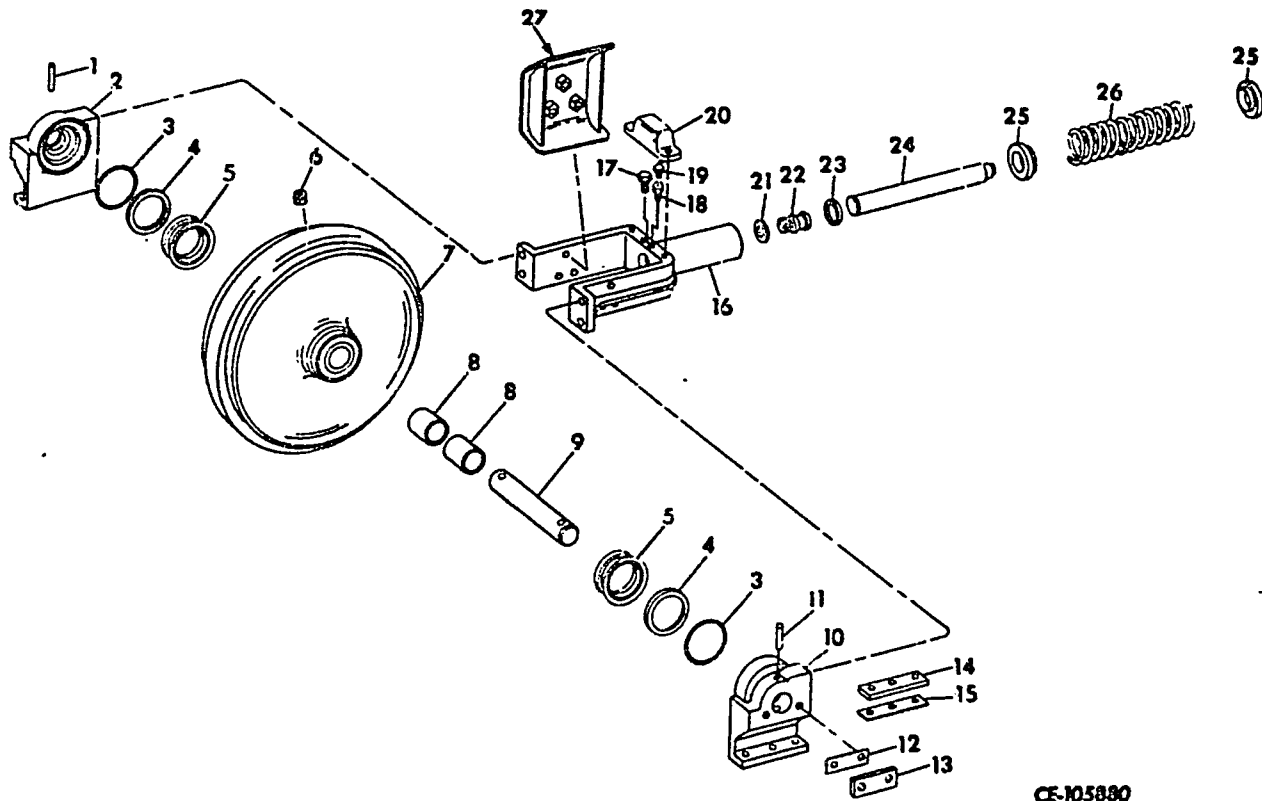


	621 528 C91	ATTACHMENT, track frame cover (See NOTE 3) (Consists of -
1	621 530 C1 24 860 R1 116 121	COVER, front, track frame (2) SCREW, hex-hd cap (8) WASHER, lock (8)
2	621 532 C1 24 860 R1 116 121 103 343	COVER, rear, track frame (2) SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (For use w/bolt 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



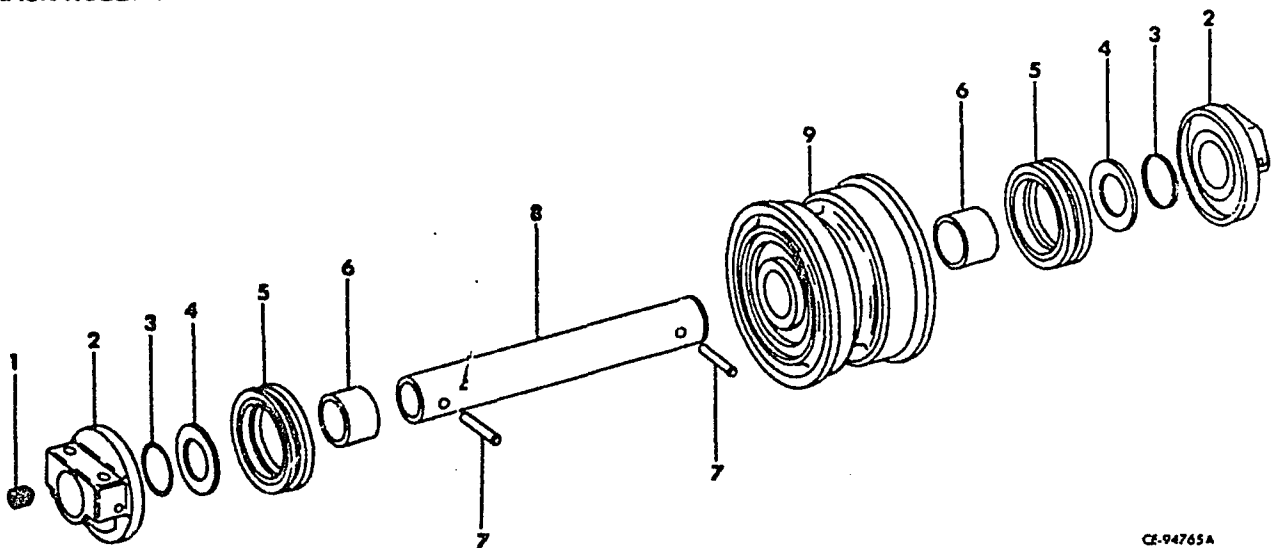
CE-105880

1	19 903 R1	PIN, coiled spring (2)	15	621 423 C1	SHIM, front idler bottom (8)
2	621 444 C1	SUPPORT, front idler (RH) (2)	16	621 447 C1	FORK, front idler (2)
3	655 278 C1	RING, support sealing (4)		24 863 R1	SCREW, hex-hd cap (8)
4	621 442 C1	WASHER, thrust (4)		116 121	WASHER, lock (8)
5	604 187 C91	OIL SEAL w/PAMPHLET, 1 085 226 R3, metal face type front idler (2)	17	662 799 C1	PLUG, track adjuster bleeder (2)
6	268 996 R1	PLUG (2)		OR	
7	621 438 C93	IDLER, w/two BUSHING, 621 440 C4, front (2)	17	319 628 R91	VALVE, tract adjuster check (2)
8	621 440 C4	BUSHING, front idler (4)		50 410 DA	PLUG, pipe (2)
9	621 441 C1	SHAFT, front idler (2)	18	319 628 R91	VALVE, track adjuster check (2)
10	621 443 C1	SUPPORT, front idler (LH) (2)	19	109 461	FITTING, lubrication (2)
11	19 903 R1	PIN, coiled spring (2)	20	621 430 C1	SHIELD, track adjuster valve (2)
12	621 446 C1	SHIM, front idler side (12)		24 860 R1	SCREW, hex-hd cap (4)
13	621 445 C1	PLATE, front idler thrust, side (4)		116 121	WASHER, lock (4)
	24 872 R1	BOLT (8)	21		SEAL, track adjuster (Order PACKAGE, 622 825 C91) (2)
	25 537 R1	WASHER, hardened (8)	22	622 049 C1	BODY, track adjuster piston (2)
14	622 044 C1	BAR, front idler wear (4)	23		SCRAPER, track adjuster (Order PACKAGE, 622 825 C91) (2)
	870 325 R1	SCREW, hex-hd cap (12)	24	621 448 C3	ROD, track adjuster (2)
	115 314	WASHER, lock (12)	25	621 453 C1	RETAINER, track spring (4)

## SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>FRONT IDLER, FORK, TRACK ADJUSTER AND TRACK SPRING - Continued</b>					
26	621 452 C1	SPRING, track (2)	606 133 C91	PACKAGE, front idler oil seal field service (Consists of two WASHER, two BAND, two WIPER and PAMPHLET, 1 019 035 R2 (X)	
27	621 535 C1 24 862 R1 116 121	SCRAPER, front idler SCREW, hex-hd cap (12) WASHER, lock (12)	606 628 C91	PACKAGE, reunition field service (Consists of fifty retainer bands) (X)	
	622 825 C91	PACKAGE, track adjuster seal (Consists of one SCRAPER and one SEAL) (X)			

### TRACK ROLLER



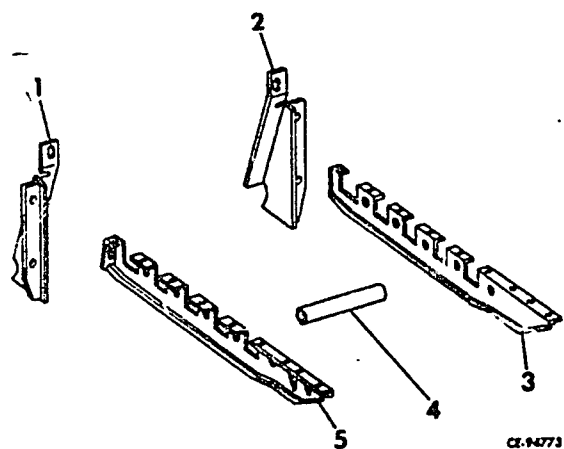
CE-94765A

621 481 C93	ROLLER, track (10)	6	621 474 C3	BUSHING (2)	
25 340 R1	SCREW, hex-hd cap (40) (Consists of -	7	22 390 R1	PIN (2)	
1	268 896 R1	PLUG, shaft	8	621 475 C1	SHAFT, shaft track roller
2	621 482 C1	BRACKET (2)	9	621 471 C94	ROLLER w/two BUSHING 621 474 C3 track
3	855 267 C1	RING, track roller bracket sealing (2)	606 628 C91	PACKAGE, reunition band field service (Consists of 50 retaining BANDS) (For service of oil SEAL, 604 187 C91) (X)	
4	621 476 C1	WASHER, thrust (2)	606 133 C91	PACKAGE, track roller oil seal (Consists of two WASHER, two BAND, two WIPER and PAMPHLET 1 019 085 R2) (For service of oil SEAL, 604 187 C91) (X)	
5	604 187 C91	OIL SEAL w/PAMPHLET, 1 085 226 R3 metal face type track roller (2)			

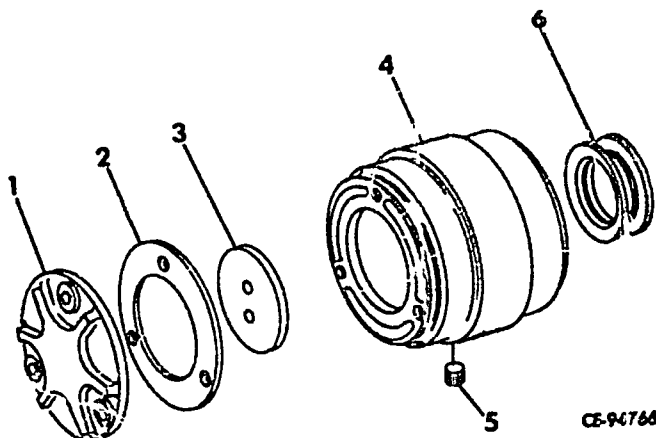
## SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### TRACK ROLLER AND SPROCKET ROCK SHIELD



### TRACK IDLER

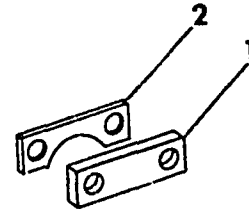
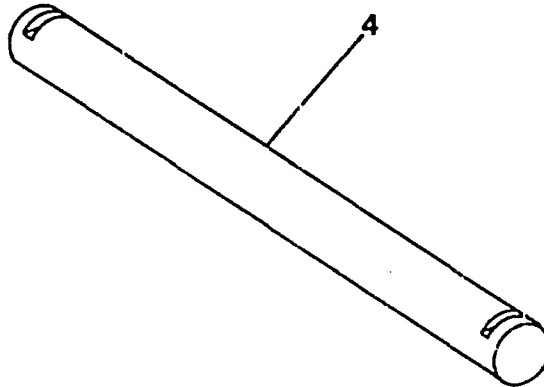
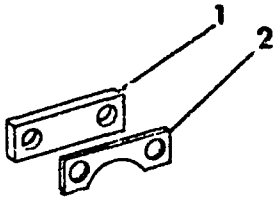


	621 176 C91	ATTACHMENT, track roller and sprocket rock shield (See NOTE 1)		521 468 C1	CAP, track idler (2)
1	621 399 C1	DEFLECTOR - RH sprocket rock (2)		101 896 R1	SCREW, hex-hd cap (6)
	24 874 R1	SCREW, hex-hd cap (6)		115 093	WASHER, lock (6)
	25 547 R1	WASHER, flat (6)	2	621 467 C1	GASKET, track idler cap (2)
	25 528 R1	NUT (6)	3	621 466 C1	PLATE, track idler thrust (2)
2	621 398 C1	DEFLECTOR - LH sprocket rock (2)		24 849 R1	SCREW, hex-hd cap (4)
	24 874 R1	SCREW, hex-hd cap (6)		115 314	WASHER, lock (4)
	25 547 R1	WASHER, flat (6)	4	621 469 C2	IDLER, track (2)
	25 528 R1	NUT (6)	5	268 996 R1	PLUG, track idler (2)
3	621 387 C1	SHIELD - LH, track roller (2)	6	604 412 C91	OIL SEAL w/PAMPHLET, 1 085 226 R3 (2)
	24 872 R1	SCREW, hex-hd cap (18)			
	25 547 R1	WASHER, hardened (18)	606 627 C91	606 627 C91	PACKAGE, reunitization band field service (Consists of 50 retainer bands) (For service of OIL SEAL, 604 412 C91) (X)
4	621 397 C1	SPACER, roller shield (10)			
	25 523 R1	SCREW, hex-hd cap (10)	606 252 C91	606 252 C91	PACKAGE, idler oil seal field service (Consists of two WASHER, two retainer BAND, two WIPER, two SEAL rubber and PAMPHLET 1 019 085 R2) (For service of OIL SEAL, 604 412 C91) (X)
	25 529 R1	NUT (10)			
	35 422 D	WASHER, hardened flat (40)			
5	621 388 C1	SHIELD - RH, track roller (2)			
	24 872 R1	SCREW, hex hd cap (18)			
	25 547 R1	WASHER, hardened (18)			

# SUSPENSION

REF. NO.	PART NUMBER	DESCRIPTION
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## REAR CROSS BAR



CE-94767A

- |   |                                      |  |
|---|--------------------------------------|--|
| 1 | 621 410 C1<br>24 875 R1<br>25 537 R1 | PLATE, crossbar lock (2)<br>BOLT (4)<br>WASHER, flat (4) |
| 2 | 621 411 C1                           | SHIM, crossbar lock plate                                |
| 4 | 621 409 C1                           | CROSSBAR, rear rigid                                     |



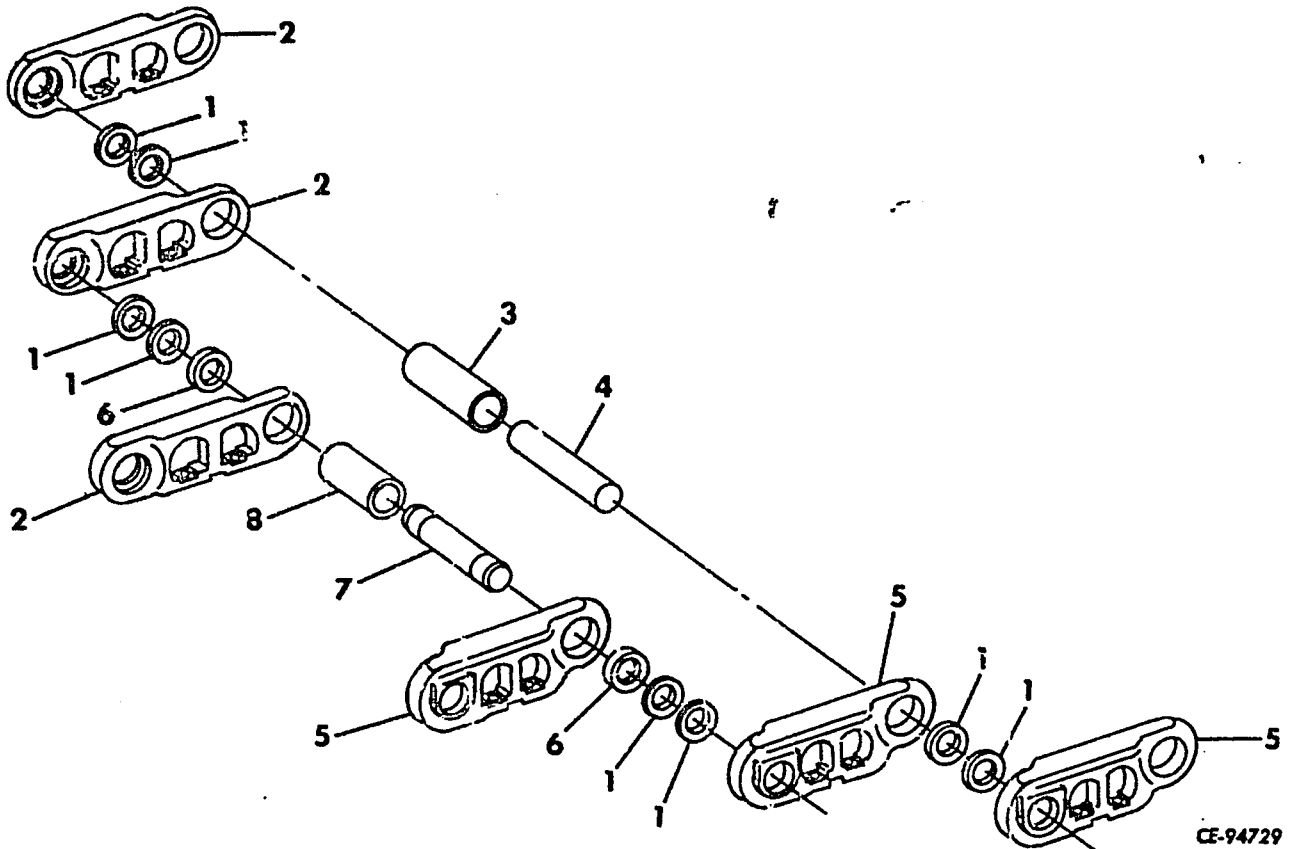
REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS

WHEELS AND TRACTION 15

## WHEELS AND TRACTION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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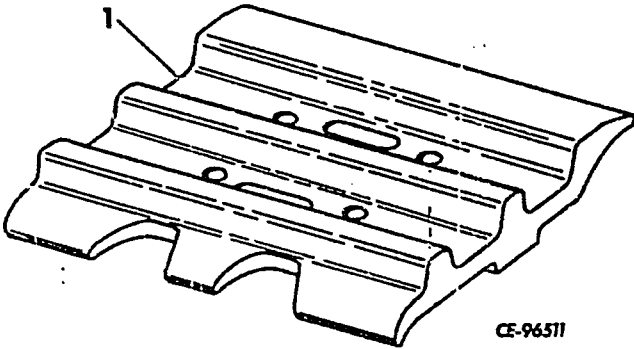
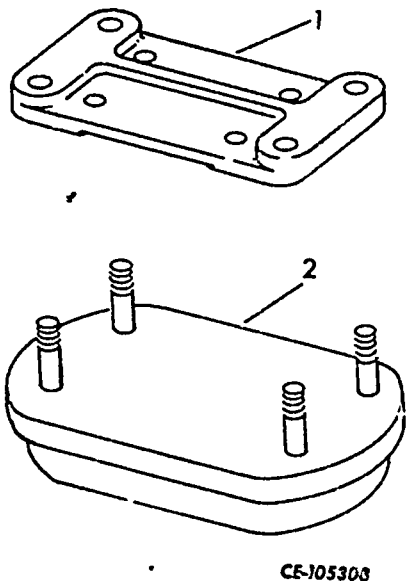
### TRACK CHAIN AND TRACK CHAIN WITH SHOES



CE-94729

	703 125 C92	CHAIN ASSY (Less shoes) track (2) (Composed of Ref. No.'s 1 thru 8)		662 534 C91	CHAIN ASSY w/14" three bar grouser shoes, track (Chains Service One Side of Tractor. When Both Sides Are To Be Serviced Order Two Assemblies) (Composed of -
1	616 187 C1	SEAL, track chain (144)		144 BOLT	414 053 C1
2	616 185 C2	LINK - LH, track (36)		1 CHAIN	703 125 C92
3	621 299 C1	BUSHING, track link (35)		144 NUT	616 192 C1
4	263 975 R1	PIN, track link (35)		36 SHOE	622 383 C1 )
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 master			
	662 533 C91	CHAIN ASSY w/13" three bar grouser shoes, track (Chains Service One Side of Tractor. When Both Sides Are To Be Serviced Order Two Assemblies). (Composed of -			
		144 BOLT		414 053 C1	
		1 CHAIN		703 125 C92	
		144 NUT		616 192 C1	
		36 SHOE		621 401 C1 )	

## WHEELS AND TRACTION

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>TRACK SHOES</b> (3 Bar Grouser)			<b>TRACK SHOES</b> (Rubber)		
					
1	621 401 C1	SHOE, track 13" (Part of ATTACHMENT, 622 381 C91) (72)			
1	622 383 C1	SHOE, track 14" (Part of ATTACHMENT, 622 851 C91) (72)			
	414 053 C1	BOLT (288)			
	616 192 C1	NUT (288)			
	622 381 C91	ATTACHMENT, track shoe 13" (Includes 288 BOLT, 414 053 C1, 288 NUT, 616 192 C1 and 72 SHOE, 621 401 C1) (See NOTE 3)	1	5370D	PLATE, rubber shoe base (Part of ATTACHMENT, 629 955 C91) (72)
	622 851 C91	ATTACHMENT, track shoe 14" (Includes 288 BOLT, 414 053 C1, 288 NUT, 616 192 C1 and 72 SHOE, 622 383 C1) (See NOTE 3)		414 053 C1	BOLT (288)
				616 192 C1	NUT (288)
			2	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)
			2	19 589 DB	SHOE, rubber (Part of SHOE, 19 589 DBY) (72)
				25 676 R1	NUT (Part of SHOE, 19 589 DBY) (288)
				256 020 R1	STUD (Part of SHOE, 19 589 DBY) (288)
				629 955 C91	ATTACHMENT, rubber track shoe (Includes 72 PLATE, 5370 D, 72 SHOE, 19 589 DBY, 288 BOLT, 414 053 C1 and 288 NUT, 616 192 C1) (See NOTE 3)

**NOT USED ON THIS MACHINE**

**BODY BOWL 16**

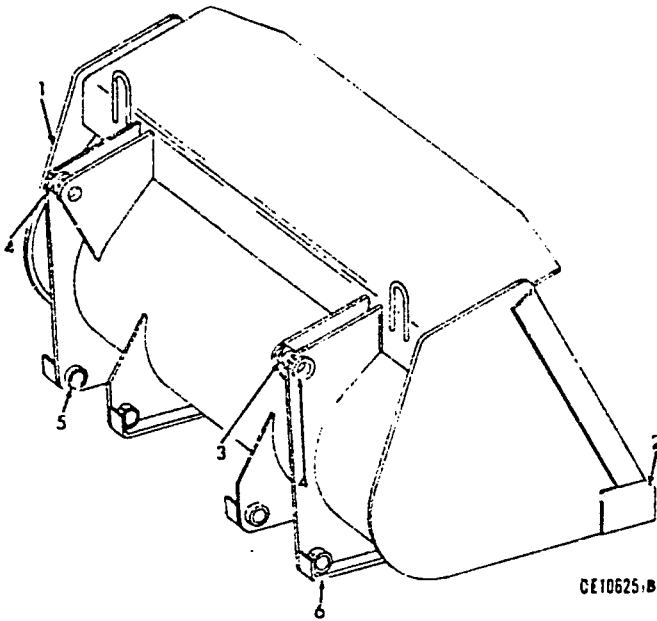
**REFER TO ALPHABETICAL INDEX  
FOR COMPLETE LISTING OF PARTS**

**MOUNTED EQUIPMENT 17**

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### GENERAL PURPOSE BUCKET



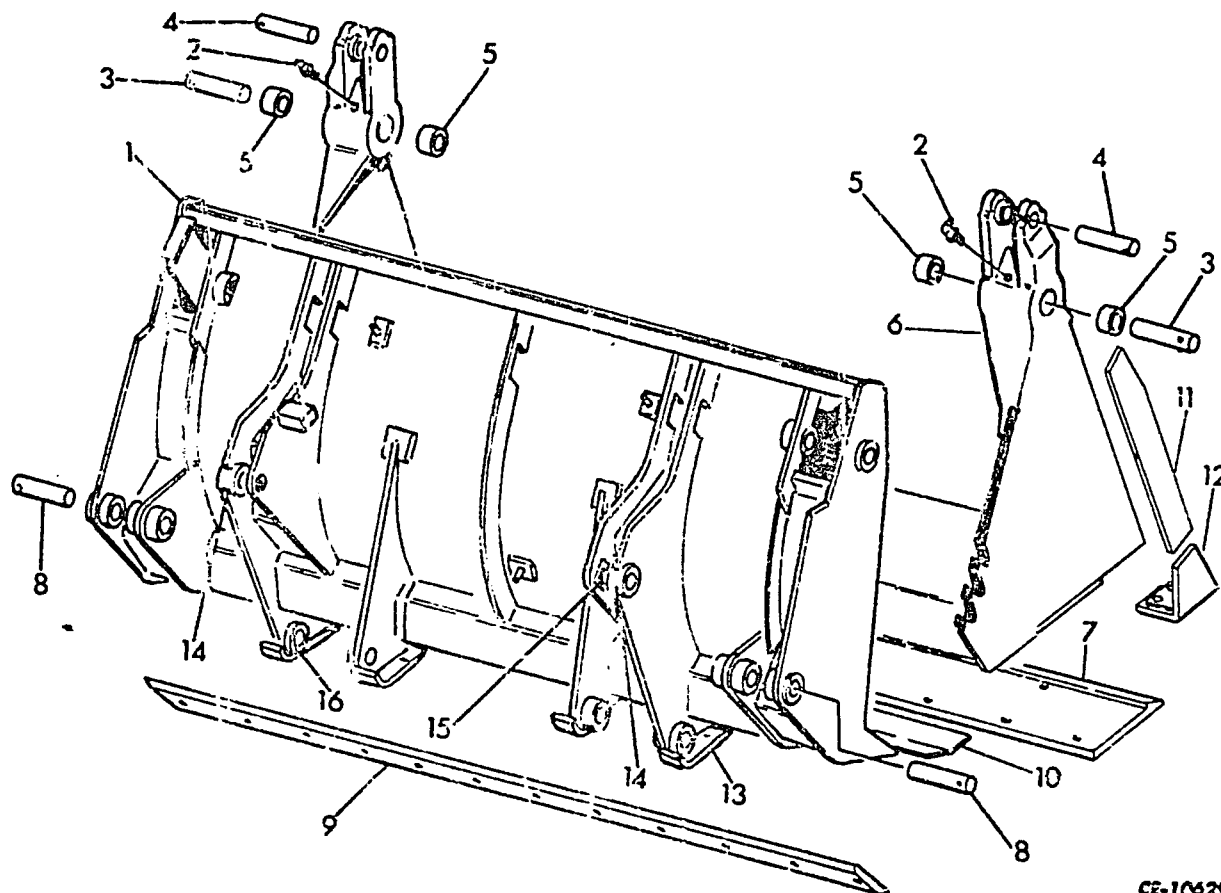
632 132 C91 ATTACHMENT, 1-3/8 cu. yd. general purpose bucket (Rear Counterweight (1235 pound) or equivalent is recommended on machines not equipped with backhoe) (See NOTE 2)

- |   |             |  |   |
|---|-------------|--|---|
| 1 | 663 790 C91 | BUCKET w/EDGE, 710 908 C1, 1-3/8 cu. yd. general purpose | 1 |
| 2 | 710 908 C1  | EDGE, cutting  |   |
| 3 | 618 957 C1  | BOSS, top hinge (2)                                      |   |
| 4 | 620 737 C1  | BOSS, upper hinge (2)                                    |   |
| 5 | 614 779 C1  | BOSS, lower hinge (2)                                    |   |
| 6 | 620 741 C1  | SKID, support (2)  |   |

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### MULTI-PURPOSE BUCKET (Part of Multi-Purpose Bucket Attachment)



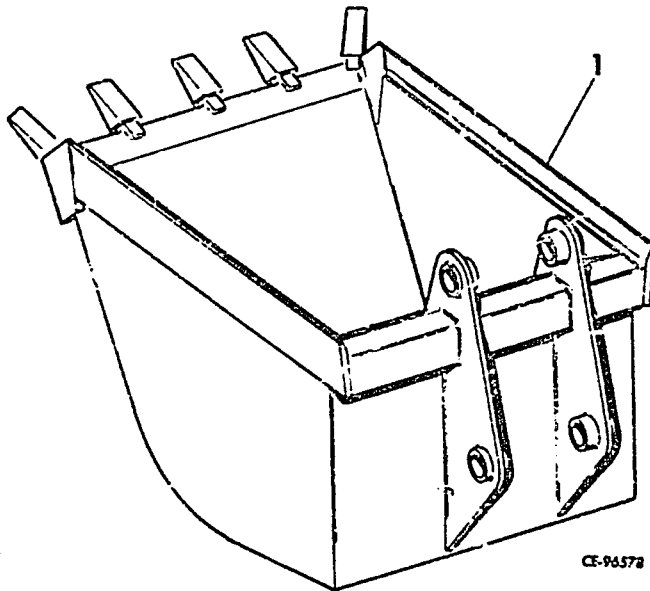
CE-106297B

1	663 959 C91	BLADE ASSY (Composed of - S 1 BLADE 1 EDGE 12 NUT 12 SCREW 4 SHOE 12 WASHER			
		616 063 C1 25 529 R1 646 534 C1 653 163 C1 25 543 R1)			
2	126 152	FITTING, grease (2)			
3	626 650 C1 24 867 R1 9 412 230	PIN, clamp mounting (2) SCREW, hex-hd cap (2) NUT, lock (2)			
4	620 820 C1 25 658 R1 9 412 230	PIN, cylinder mounting (2) SCREW, hex-hd cap (2) NUT, lock (2)			
5	620 747 C1	BUSHING (4)			
6	663 940 C91	CLAM (Composed of - S 3 BAR 4 BUSHING 1 CORNER	620 747 C1 663 943 C1		
		663 944 C1			
		CORNER			
		2 CUTTER			
		1 EDGE			
		S 2 HINGE			
		1 PLATE			
		S 9 PLATE			
		663 944 C1			
		663 947 C1			
		663 936 C1			
		667 084 C1			
		663 943 C1			
		663 944 C1			
		653 163 C1			
		620 737 C1			
		EDGE, cutting			
		PIN, cylinder mounting (2)			
		SCREW, hex-hd cap (2)			
		NUT, lock (2)			
		EDGE, cutting			
		BOLT, plow (12)			
		NUT (12)			
		WASHER (12)			
		PLATE, compaction			
		CUTTER, side (2)			
		CORNER, LH bucket			
		CORNER, RH bucket			
		SHOE, skid (4)			
		BOSS, upper hinge (2)			

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
15	618 957 C1	BOSS, top hinge (2)	1	547 125 R91	ATTACHMENT, 24" standard backhoe bucket (6.0 cu. ft.) (See NOTE 2)
16	614 779 C1	BOSS, lower hinge (2)	1	547 128 R91	ATTACHMENT, 30" standard backhoe bucket (8.0 cu. ft.) (See NOTE 2)
	444 687	PLUG, pipe hex-soc (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)

### BACKHOE BUCKETS



### BACKHOE (Model 3142A)

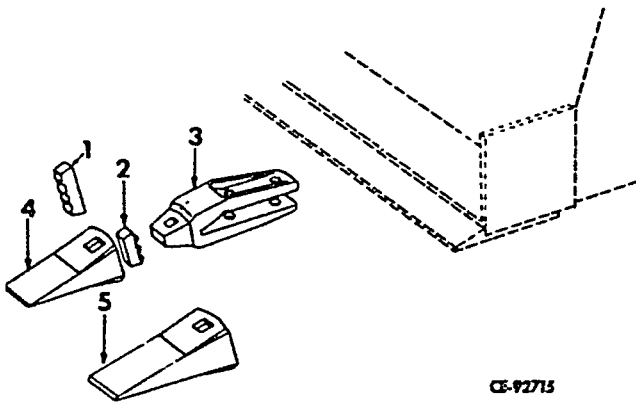
1	61 527 C91	ATTACHMENT, 24" heavy duty bucket (6.0 cu. ft.) (See NOTE 3)	632 148 C91	ATTACHMENT, backhoe, Model 3142A w/o BUCKET (Use w/backhoe mounting plate) (For service parts, refer to the Backhoe Parts Catalog, PC-3142A) (See NOTE 3)
1	61 526 C91	ATTACHMENT, 30" heavy duty backhoe bucket (7.0 cu. ft.) (See NOTE 2)	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 ROPS 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 backhoe hydraulic control unit) (See NOTE 2) (Consists of -
1	61 525 C91	ATTACHMENT, 36" heavy duty backhoe bucket (9.4 cu. ft.) (See NOTE 2)	710 265 C91	BACKHOE w/o BUCKET, Model 3142A (For service parts, refer to Backhoe Parts Catalog PC-3142A) (See Note 3)
1	61 528 C91	ATTACHMENT, 24" hi-capacity heavy duty backhoe bucket (7.0 cu. ft.) (See NOTE 3)		DOOR, radiator guard (Refer to "Front Frame")
1	547 117 R91	ATTACHMENT, 24" hi-capacity backhoe bucket (7.0 cu. ft.) (See NOTE 2)		TOOL, fan reversing (Refer to "Tools and Tool Box")
1	547 118 R91	ATTACHMENT, 30" hi-capacity backhoe bucket (10.0 cu. ft.) (See NOTE 2)		PLATE, backhoe mounting (Refer to "Backhoe Mounting Plate")
1	543 030 R91	ATTACHMENT, 13" standard backhoe bucket (2.5 cu. ft.) (See NOTE 3)	454 104	ELBOW
1	547 121 R91	ATTACHMENT, 16" standard backhoe bucket (3.5 cu. ft.) (See NOTE 2)	187 396	COUPLING
1	547 122 R91	ATTACHMENT, 18" standard backhoe bucket (4.0 cu. ft.) (See NOTE 3)	12 989 R1	NIPPLE, 3/8" pipe
1	547 123 R91	ATTACHMENT, 20" standard backhoe bucket (4.5 cu. ft.) (See NOTE 2)		



## MOUNTED EQUIPMENT

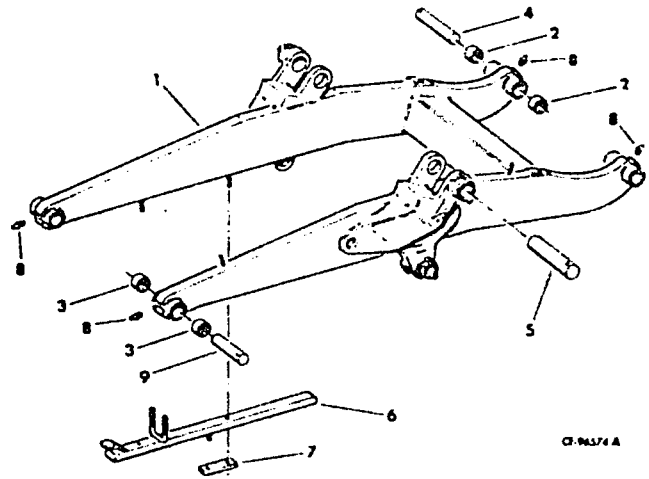
REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### BUCKET TEETH (Not used w/Light Material Bucket)



- |   |             |   |
|---|-------------|---|
| 1 | 620 835 C1  | PIN, locking (7)  |
| 2 | 620 833 C1  | LOCK, locking pin (7)   |
| 3 | 620 832 C91 | ADAPTER w/LOCK, 620 833 C1, tooth (Not Used w/MULTI-PURPOSE BUCKET) (7)   |
|   | 25 528 R1   | NUT (14)  |
|   | 24 877 R1   | SCREW, hex-hd cap (14)  |
| 3 | 663 938 C1  | ADAPTER w/LOCK, 620 833 C1, tooth (Not Used w/GENERAL PURPOSE BUCKET) (7) |
|   | 25 529 R1   | NUT (14)  |
|   | 24 893 R1   | SCREW, 3-1/2" long hex-hd cap (7)   |
|   | 24 892 R1   | SCREW, 3" long hex-hd cap (7)   |
| 4 | 620 834 C1  | TIP, tooth (Standard) (7)   |
| 5 | 626 102 C1  | TIP, tooth (Long) (7)   |

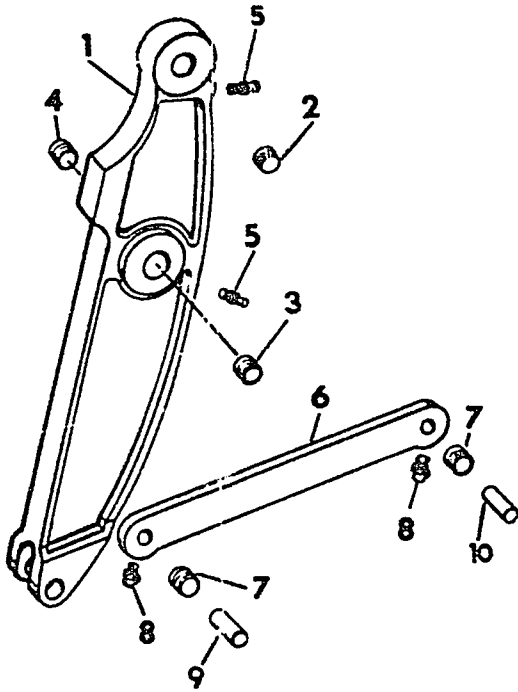
### LIFT ARM



- |   |             |  |
|---|-------------|--|
| 1 | 620 976 C91 | ARM w/four BUSHING, 620 803 C1, and four BUSHING, 618 964 C1, lift |
| 2 | 620 803 C1  | BUSHING, lift arm (4)  |
| 3 | 618 964 C1  | BUSHING, lift arm (4)  |
| 4 | 629 415 C1  | PIN, bucket pivot (2)  |
|   | 24 867 R1   | SCREW, hex-hd cap (2)  |
|   | 9 412 230   | NUT, lock (2)  |
| 5 | 620 991 C1  | PIN, bellcrank pivot (2)   |
|   | 25 346 R1   | SCREW, hex-hd cap (2)  |
|   | 9 412 231   | NUT, lock (2)  |
| 6 | 653 087 C1  | BAR, safety  |
|   | 9 412 230   | NUT, lock (2)  |
| 7 | 653 248 C1  | PLATE, clamp   |
| 8 | 109 461     | FITTING, lubrication (4)   |
| 9 | 623 338 C2  | PIN, lift arm pivot (2)  |
|   | 25 346 R1   | SCREW, hex-hd cap (2)  |
|   | 9 412 231   | NUT, lock (2)  |

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>BELLCRANK AND TILT LINK</b>			10	620 749 C1 70 428 R1	PIN, tilt link (2) SCREW, 3-1/4" long hex-hd cap (2)
	9 413 981 643 704 C1				NUT, lock (2) WASHER, belleville (4)



CE-96498B

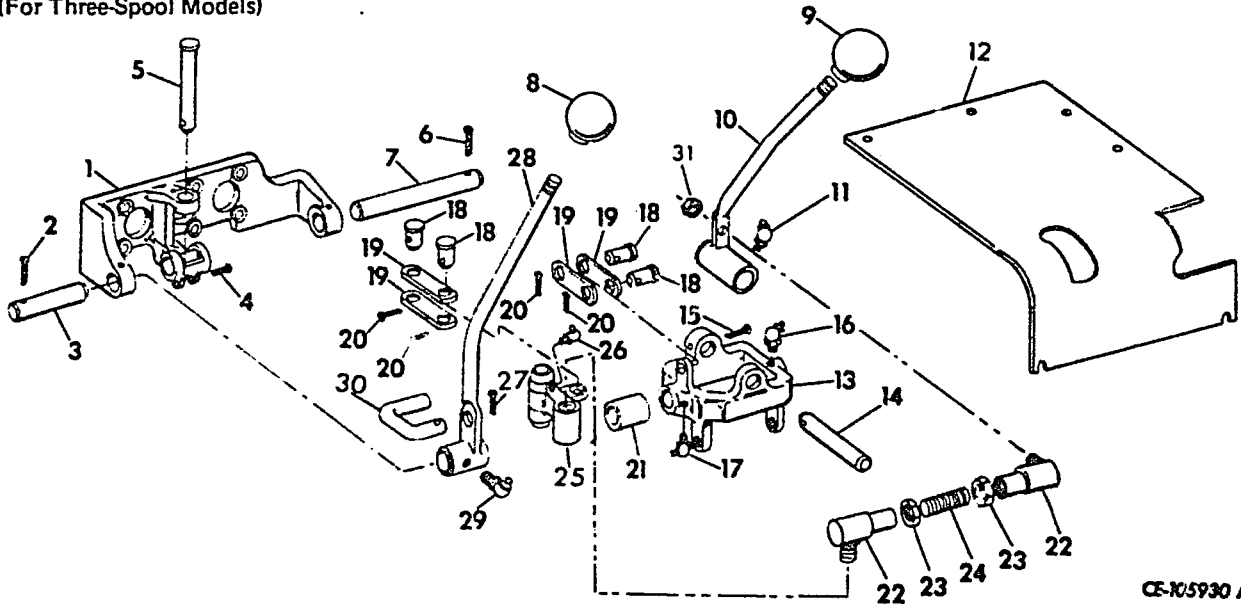
1	710 729 C91	BELLCRANK w/BUSHING, 620 751 C1, BUSHING, 618 963 C1, and BUSHING, 618 964 C1, LH
1	710 730 C91	BELLCRANK w/BUSHING, 620 751 C1, BUSHING, 618 963 C1, and BUSHING, 618 964 C1, RH
2	620 751 C1	BUSHING, bellcrank (2)
3	618 963 C1	BUSHING, bellcrank (2)
4	618 964 C1	BUSHING, bellcrank (2)
5	109 461	FITTING, lubrication (4)
6	620 748 C92	LINK w/two BUSHINGS, 620 747 C1, tilt (2)
7	620 747 C1	BUSHING, link (4)
8	109 462	FITTING, lubrication (4)
9	620 749 C1 24 857 R1	PIN, tilt link (2) SCREW, 4-1/2" long hex-hd cap (2)
	9 413 981 616 203 C1	NUT, lock (2) WASHER, belleville (4)

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### CONTROLS AND MOUNTING

(For Three-Spool Models)



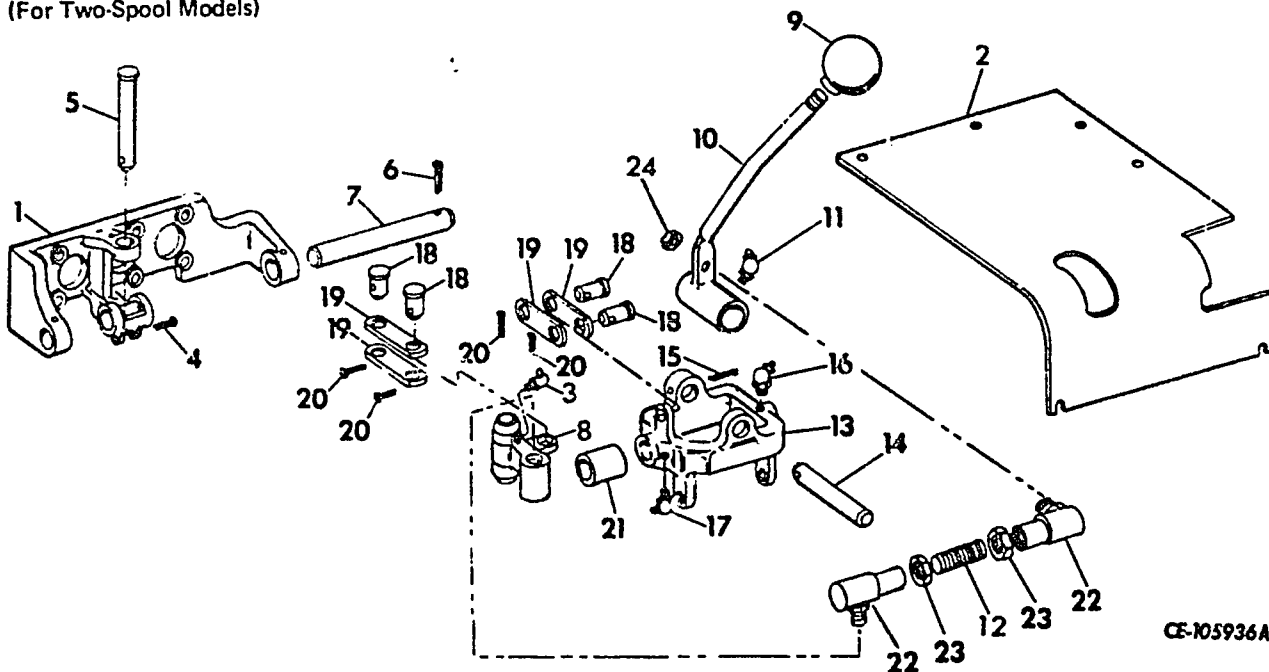
1	623 031 C1 24 843 R1 115 109	BRACKET, control mounting SCREW, hex-hd cap (4) WASHER, lock (4)	13	623 032 C1	SUPPORT, linkage
2	20 328 R1	PIN, cotter	14	623 035 C1	PIN, lever
3	623 034 C1	SHAFT, control	15	137 209	PIN, cotter
4	119 120	PIN, cotter	16	117 175	FITTING, lubrication
5	623 043 C1	PIN, rod end	17	16 964 R91	FITTING, lubrication
6	20 328 R1	PIN, cotter	18	103 495	PIN, rod end (4)
7	623 033 C1	SHAFT, control support	19	645 011 C2	LINK, valve (4)
8	264 097 R2	KNOB, lever	20	103 373	PIN, cotter (4)
9	264 055 R2	KNOB, lever	21	623 036 C1	TUBE, spacer
10	667 010 C1	LEVER, control	22	653 867 C1	JOINT, control ball (Replaces 158 397 H1)
11	117 175	FITTING, lubrication	23	114 494	NUT, jam (2)
12	629 775 C1	COVER, control linkage (For all models except backhoe) 6782 and below	24	257 264 C1	ROD, control
12	667 168 C1	COVER, control linkage (For backhoe models) 6782 and below	25	623 041 C2	BELLCRANK, control
	24 839 R1 115 093 25 534 R1	SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (2)	26	117 175	FITTING, lubrication
			27	107 763	PIN, cotter
			28	667 119 C1	LEVER, control
			29	16 964 R91	FITTING, lubrication
12	705 941 C1	COVER, control linkage 6783 and up	30	623 037 C2	LINK, valve
	24 839 R1 25 544 R1 115 093	SCREW, hex-hd cap (4) WASHER, flat (2) WASHER, lock (4)	31	9413 980	NUT

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### CONTROLS AND MOUNTING

(For Two-Spool Models)



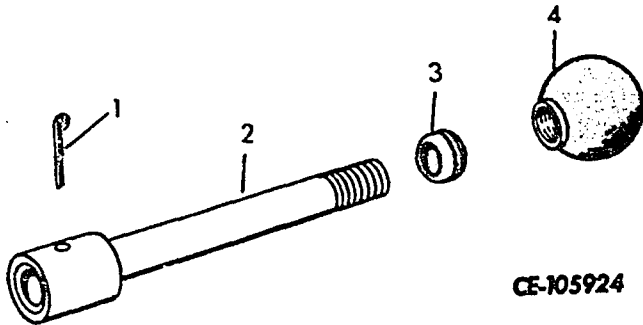
CE-105936A

1	623 031 C1 25 483 R1 115 109	BRACKET, control mounting SCREW, hex-hd cap (4) WASHER, lock (4)	12	257 264 C1	ROD, control
2	629 775 C1	COVER, control linkage (For all models except backhoe) 6782 and below	13	623 032 C1	SUPPORT, linkage
2	667 168 C1	COVER, control linkage (For backhoe models) 6782 and below	14	623 035 C1	PIN, lever
	24 839 R1 115 093 25 534 R1	SCREW, hex-hd cap (4) WASHER, lock (4) WASHER, flat (2)	15	137 209	PIN, cotter
2	705 941 C1	COVER, control linkage 6783 and up	16	117 175	FITTING, lubrication
	24 839 R1 25 544 R1 115 093	SCREW, hex-hd cap (4) WASHER, flat (2) WASHER, lock (4)	17	16 964 R91	FITTING, lubrication
3	117 175	FITTING, lubrication	18	103 495	PIN, rod end (4)
4	119 120	PIN, cotter	19	645 011 C2	LINK, valve (4)
5	623 043 C1	PIN, rod end	20	103 373	PIN, cotter (4)
6	20 328 R1	PIN, cotter	21	623 036 C1	TUBE, spacer
7	623 033 C1	SHAFT, control support	22	653 867 C1	JOINT, control ball (Replaces 158 397 H1) (2)
8	623 041 C2	BELLCRANK, control	23	114 494	NUT, jam (2)
9	264 055 R2	KNOB, lever	24	9413 980	NUT
10	667 010 C1	LEVER, control			
11	117 175	FITTING, lubrication			

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
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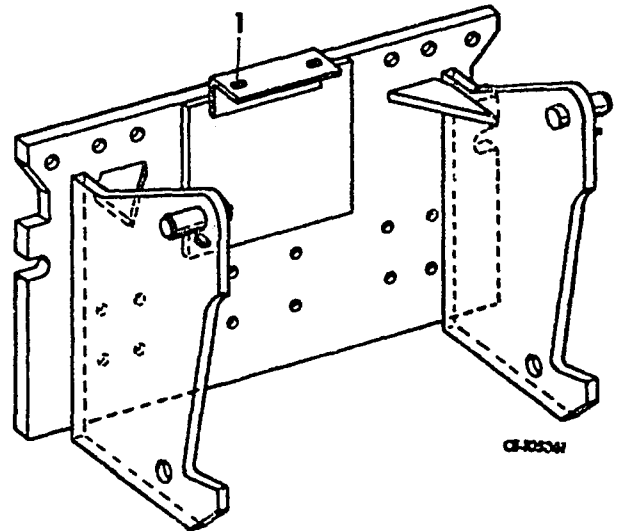
**CONTROLS AND MOUNTING**  
(For All Backhoe Models)  
(6782 and BELOW)



- |   |            |                               |
|---|------------|-------------------------------|
| 1 | 103 409    | PIN, cotter                   |
| 2 | 663 708 C1 | LEVER, diverter valve control |
| 3 | 117 964    | GROMMET                       |
| 4 | 264 097 R2 | KNOB, backhoe control lever   |

REF. NO.	PART NUMBER	DESCRIPTION
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**BACKHOE MOUNTING PLATE**

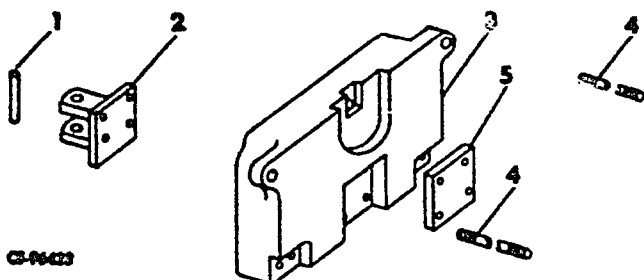


- |   |            |   |
|---|------------|---|
| 1 | 59 943 C1  | PLATE, backhoe mounting<br>6782 and below                                   |
| 1 | 103 367 C2 | PLATE, backhoe mounting (Part of<br>ATTACHMENT, 710 271 C91)<br>6783 and up |
|   | 24 848 R1  | SCREW, 1-1/8" dia. hex-hd cap<br>(4)  |
|   | 24 890 R1  | SCREW, 3/4" dia. hex-hd cap (8)   |

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### REAR COUNTERWEIGHT ATTACHMENTS



C-16423

- |   |                                       |   |
|---|---------------------------------------|---|
| A | 622 818 C91                           | ATTACHMENT, rear counterweight (560 pound) (Not used with ripper, winch or backhoe. Cannot be used with straight canopy mount) (See NOTE 3)   |
| B | 622 819 C91                           | ATTACHMENT, rear counterweight (1235 pound) (Not used with ripper, winch or backhoe. Cannot be used with straight canopy mount) (See NOTE 2)  |
| C | 622 841 C91                           | ATTACHMENT, rear counterweight (For use on models equipped with Multi-Purpose Bucket) (Not used with ripper, winch or backhoe. Cannot be used with straight canopy mount) (See NOTE 2) (Consists of - |
| 1 | 621 005 C1<br>19 998 R1<br>621 006 C1 | PIN, drawbar clevis<br>PIN, coiled spring<br>PIN, quick attaching   |
| 2 | 621 018 C1<br>24 894 R1<br>25 538 R1  | DRAWBAR<br>SCREW, hex-hd cap (4)<br>WASHER, flat (4)  |
| 3 | 622 667 C2                            | COUNTERWEIGHT (560 pound) (A)   |
| 3 | 622 671 C2                            | COUNTERWEIGHT (1235 pound) (B)  |
| 3 | 622 673 C2                            | COUNTERWEIGHT (C)   |
|   | 25 556 R1<br>25 538 R1                | BOLT (4)<br>WASHER, flat (4)  |

- |   |            |                                  |
|---|------------|----------------------------------|
| 4 | 622 429 C1 | BAR, front to rear frame tie (2) |
| 5 | 622 668 C1 | PLATE, drawbar mounting back-up  |

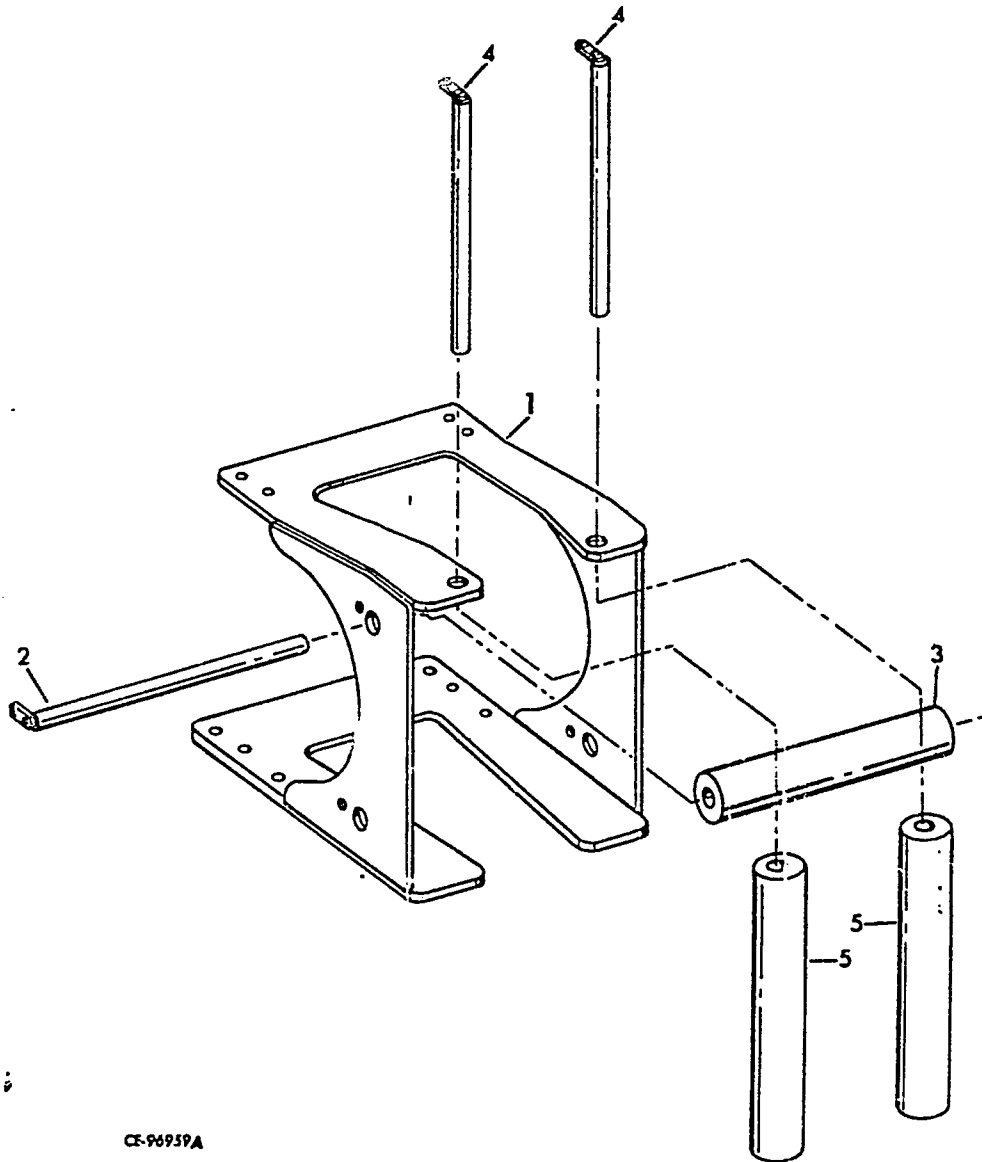
### RIPPER COUNTERWEIGHT ATTACHMENTS

- |   |                                    |  |
|---|------------------------------------|--|
| A |                                    | ATTACHMENT, ripper saddle counterweight (recommended for use on models equipped with ripper when ripper is used in conjunction with General Purpose Bucket, except when Protective Canopy is mounted) (See NOTE 3) |
| B |                                    | ATTACHMENT, ripper counterweight (recommended for use on models equipped with Ripper when ripper is used in conjunction with Multi-Purpose Bucket, except when protective canopy is mounted) (See NOTE 3)          |
|   | 541 024 R2<br>271 749<br>121 574   | WEIGHT, frame bar saddle (2)<br>SCREW, hex-hd cap (4)<br>WASHER (4)  |
|   | 541 026 R1<br>21 613 R1<br>131 048 | WEIGHT, auxiliary (3 for B)<br>SCREW, hex-hd cap (6)<br>WASHER, lock (6)   |

## MOUNTED EQUIPMENT

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



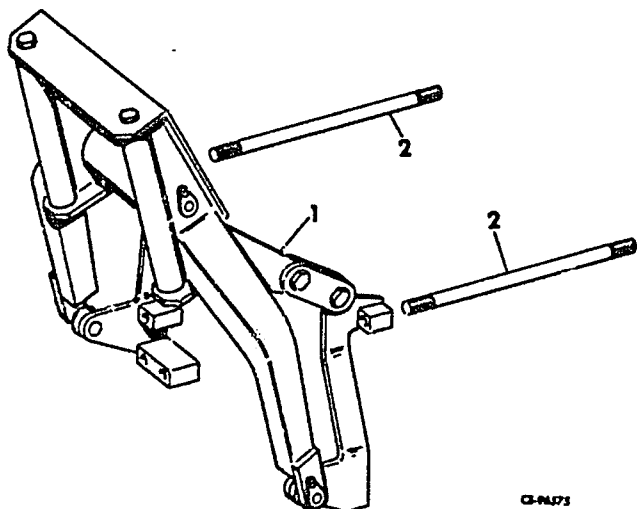
CE-90959A

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) (Consists of -				
1	BODY (Order ATTACHMENT, 627 395 C91)		2	631 849 C91 179 812 103 320	SHAFT, upper roller SCREW, hex-hd cap WASHER
271 611 103 326	SCREW, hex-hd cap (10) WASHER (10)		3	631 848 C91	ROLLER, upper
			4	631 846 C91 179 812 103 320	SHAFT, side roller (2) SCREW, hex-hd cap (2) 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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### 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)

### MULTI-PURPOSE BUCKET, MULTI-PURPOSE BUCKET PLUMBING AND THIRD SECTION VALVE ATTACHMENTS

A 626 064 C92 ATTACHMENT, multi-purpose loader bucket (for models equipped with Multi-purpose Bucket Plumbing Attachment and three spool valve) (Rear multi-purpose counterweight or equivalent is recommended on models not equipped with backhoe) (See NOTE 2)

B 622 844 C91 ATTACHMENT, multi-purpose bucket plumbing (for models equipped with three spool valve) (See NOTE 1)

BUCKET, multi-purpose (less teeth) (Refer to "Multi-Purpose Bucket" Section 17) (Attachment A)

CYLINDER, multi-purpose bucket (Refer to "Multi-Purpose Bucket Cylinder" Section 10) (2 for Attachment A)

### MULTI-PURPOSE BUCKET, MULTI-PURPOSE BUCKET PLUMBING AND ATTACHMENTS - Continued

PIPING, multi-purpose bucket (on bucket only) (Refer to "Multi-Purpose Bucket Piping" Section 10) (Attachment A)

PIPING, lift arms (Refer to "Piping for Lift Arms" Section 10) (Attachment B)

653 169 C2 PRODUCT GRAPHIC, clam opening indicator (Attachment A)

626 514 C1 PRODUCT GRAPHIC, tilt cylinder instruction (Attachment A)

### RIPPER (MODEL 397)

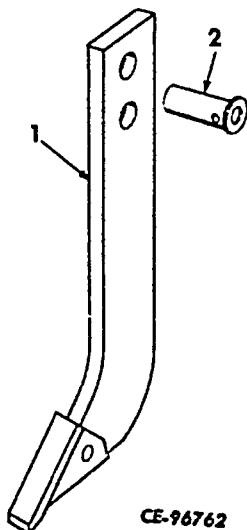
541 474 R91 ATTACHMENT, ripper w/mounting plate (Must be used w/rear auxiliary circuit or rear auxiliary circuit w/diverter valve) (Cannot be used w/loader rear counterweight, standard canopy rear mount or winch) (not for backhoe models) (for service parts refer to your SCARIFIER and RIPPER parts catalog SR-1) (See NOTE 2)



# MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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## ADDITIONAL RIPPER TOOTH

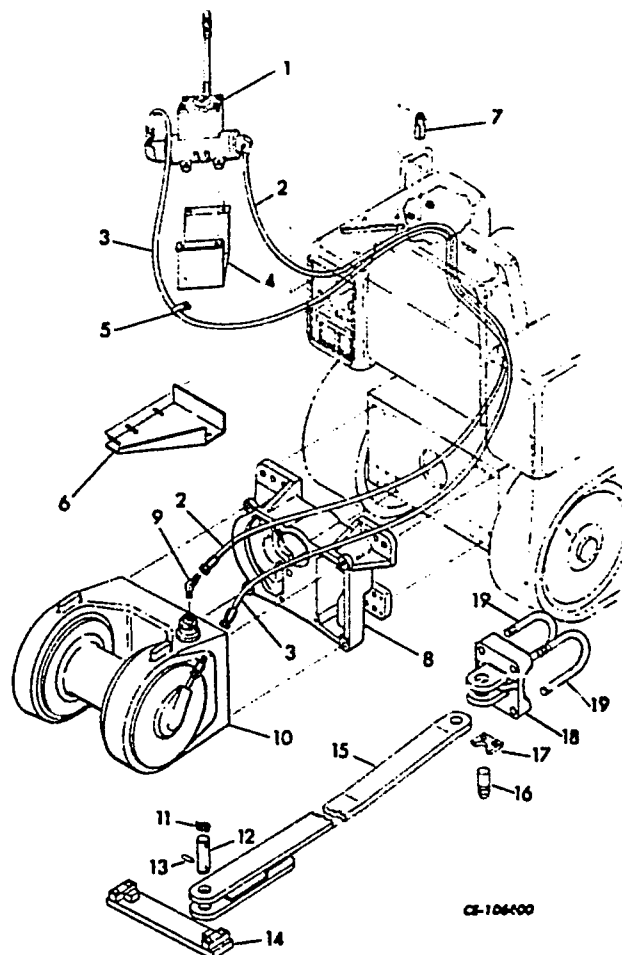


CE-96762

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       |

## GEARMATIC WINCH AND DRAWBAR



CS-106400

- |   |             |   |
|---|-------------|---|
| 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 Rear Counterweight, backhoe, Ripper or standard rear Canopy mount) (See NOTE 2) |
| C | 738 602 C91 | ATTACHMENT, swinging drawbar (Used with winch and no rigid drawbar) (See NOTE 2)<br>(Consists of -  |
| 1 |             | CONTROL ASSY., winch master (Refer to "Gearmatic Winch Master Control") (A and B)   |

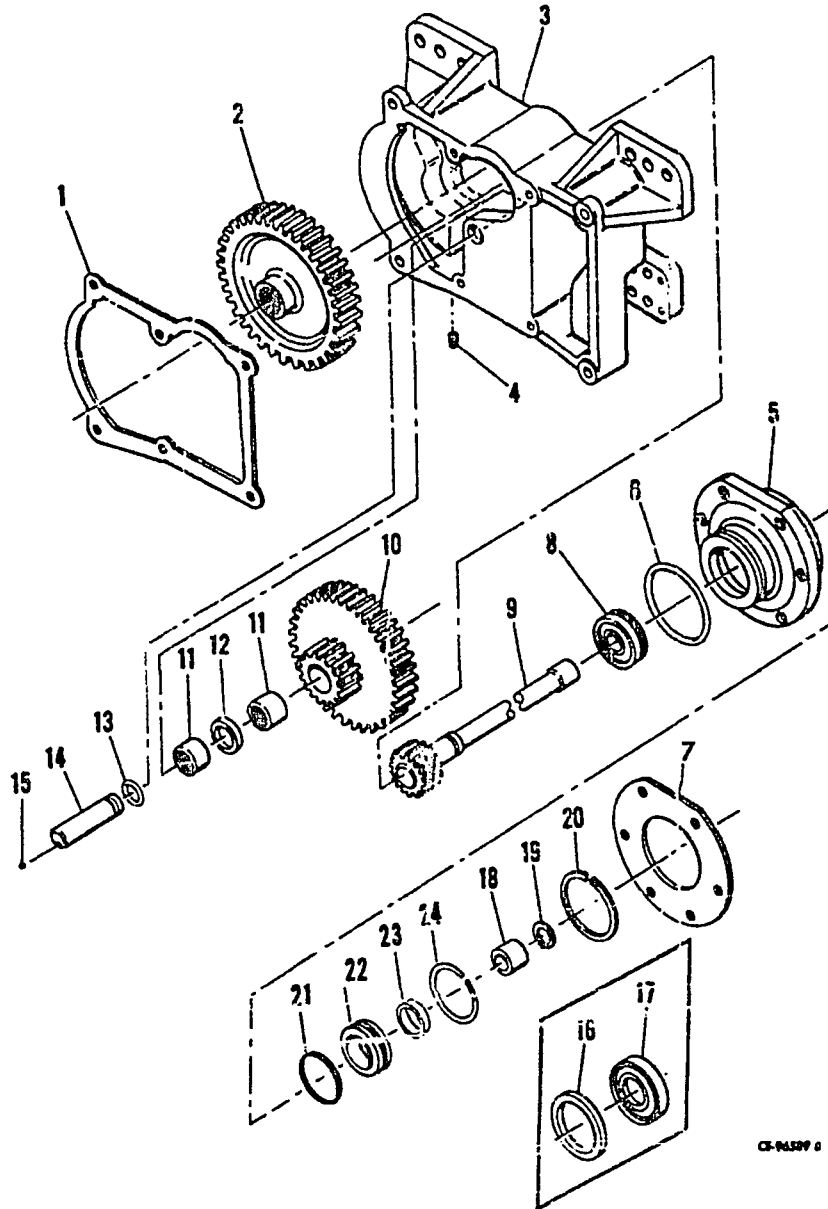
## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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)			
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) SCREW, hex-hd cap (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) SCREW, hex-hd cap 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° (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 25 536 R1 25 526 R1	"U" BOLT, pivot bracket (A and C) (2) WASHER, flat (4) NUT (4)			

## MOUNTED EQUIPMENT

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



CS-14507 0

527 273 C91	ADAPTER ASSY., winch (Composed of -	218 404	NUT (5)
1	627 579 C1 GASKET, adapter to winch	627 357 C1	STUD, mounting (6)
2	627 378 C1 GEAR, pinion	103 326	WASHER, 3/4" lock (16)
3	627 380 C1 HOUSING, adapter	120 731	WASHER, 1-1/8" lock (4)
	271 635 SCREW, 3/4 x 2-1/4" hex-hd cap (4)	103 325	WASHER, 5/8" lock (4)
	271 612 SCREW, 3/4 x 2-1/2" hex-hd cap (4)	4	444 588 PLUG, sq. hd. (2)
	271 556 SCREW, 5/8 x 1-1/4" hex-hd cap (6)	5	627 381 C1 HOUSING, bearing
	323 213 R1 SCREW, 1-1/8" hex-hd cap (4)	6	257 642 R1 "O" RING
	20 094 R1 SCREW, 3/4" x 2-1/2" hex-hd cap (2)	7	627 382 C1 GASKET, bearing housing
		8	ST 256 BEARING, ball

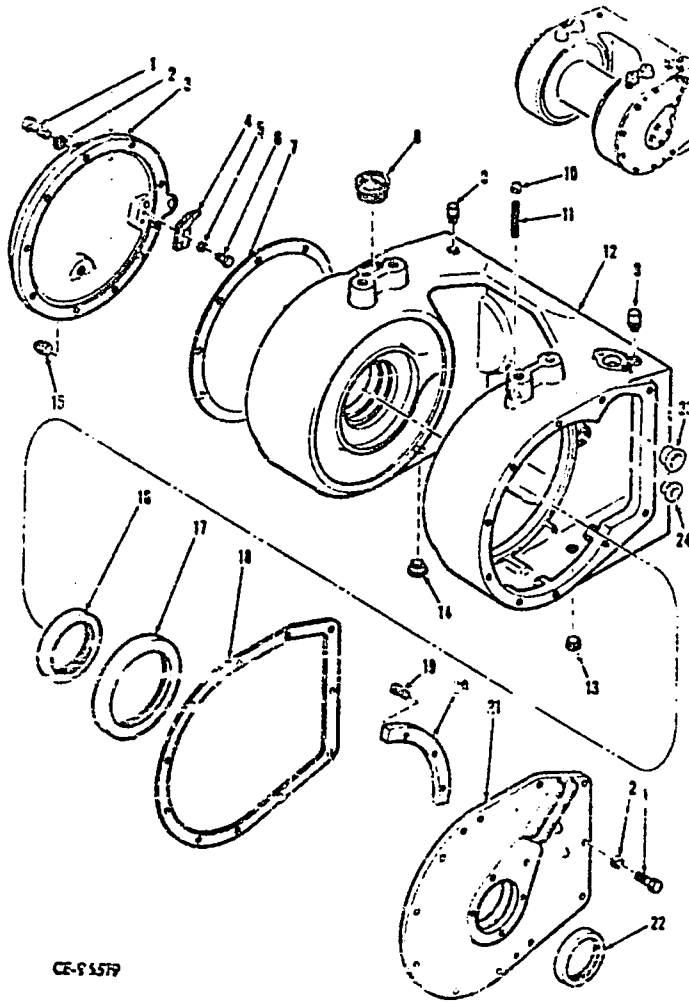
## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
<b>GEARMATIC WINCH ADAPTER - Continued</b>					
9	627 383 C1	SHART, 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			
20	267 743 C1	RING, snap			
21	354 836 R1	"O" RING			
22	634 100 C1	RING, seal			
23	634 101 C1	SEAL, oil			
24	634 102 C1	RING, snap			

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
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### HYDRAULIC WINCH HOUSING AND COVER



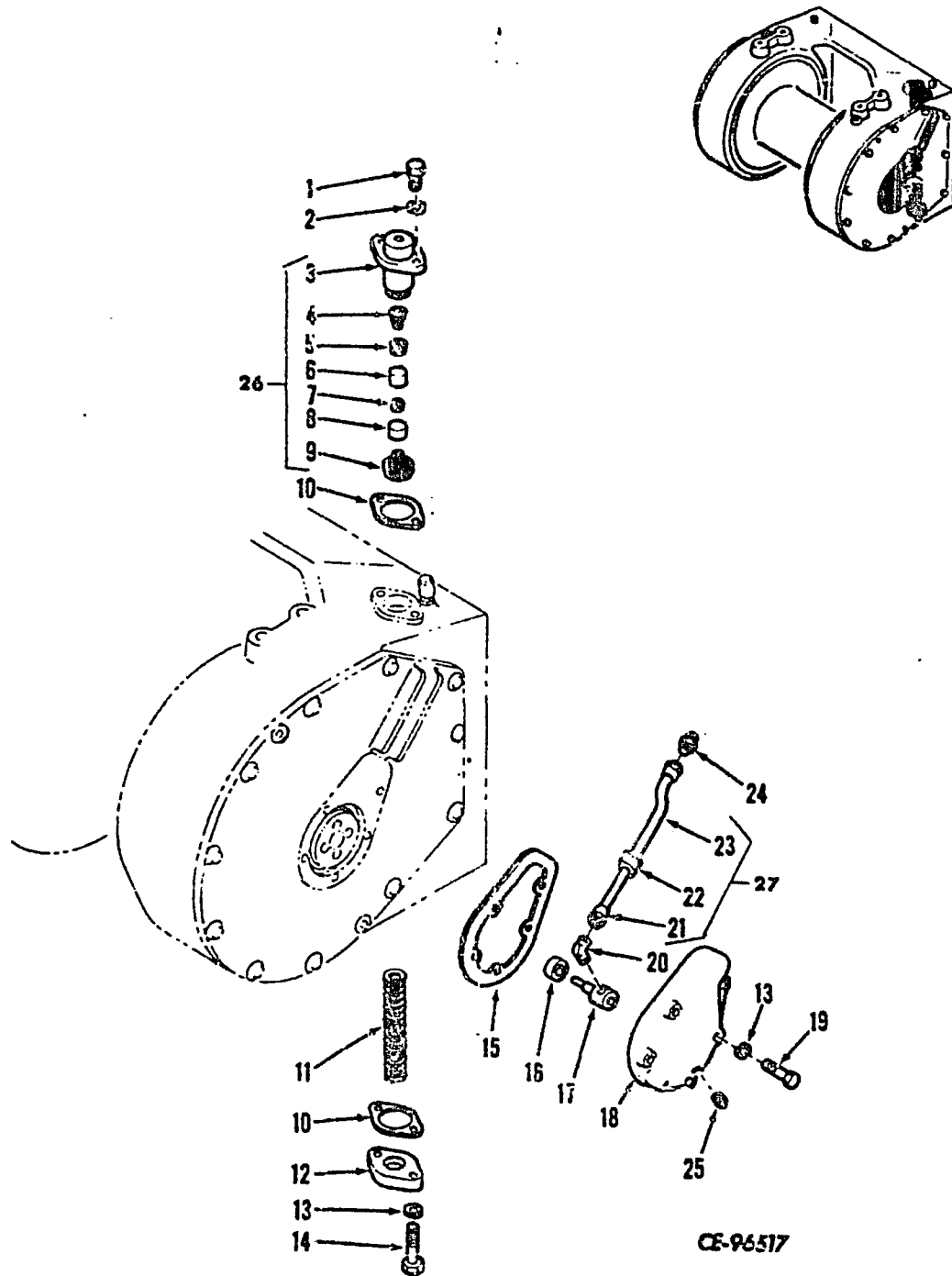
CE-95579

1	178 805	SCREW, hex-hd cap (21)	13	444 538	PLUG, pipe
2	103 323	WASHER, lock (21)	14	272 491 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)	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	876 735 C1	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 R 1	SCREW, hex-hd cap (2)	5	202 476 H 1	"U" CUP, brcke cylinder
2	115 093	WASHER, lock (2)	6	217 506 H 1	PISTON, primary
3	217 505 H 1	CYLINDER, brake	7	217 458 H 1	SPRING, piston
4	202 484 H 1	SPRING, brake cylinder	8	202 477 H 1	PISTON, brake cylinder

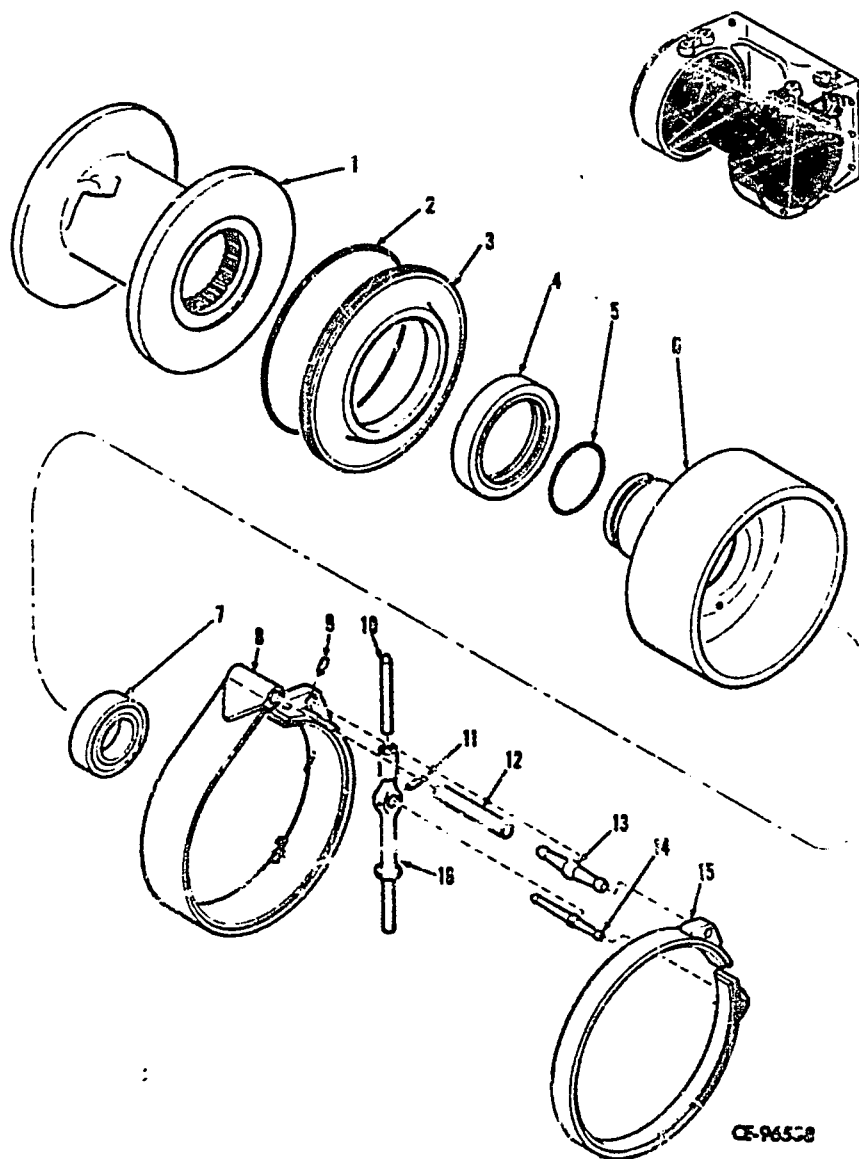
## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
<b>GEARMATIC WINCH BRAKE CYLINDER AND HYDRAULIC TUBE - Continued</b>		
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		WASHER, 7/16" 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	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" CD x 9" long)
24	217 495 H1	ADAPTER, tube
25	445 684	PLUG, drain
26	875 483 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

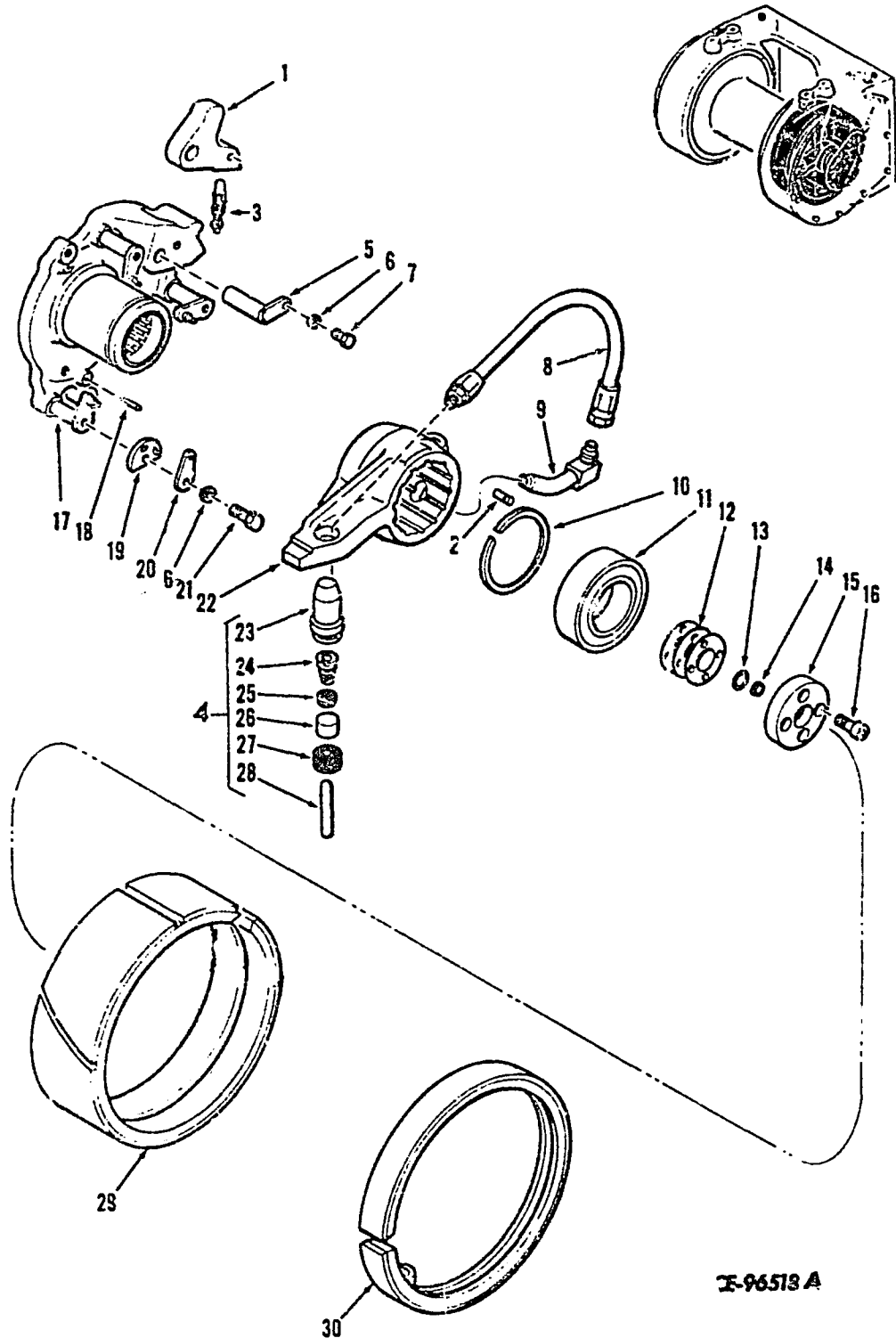


1	893 400 C1	DRUM, cable	9	217 696 H1	PIN, self-lock
2	217 650 H1	"O" RING	10	217 507 H1	ROD, push
3	217 647 H1	HOUSING, oil seal	11	217 689 H1	PIN, self-lock
4	217 646 H1	SEAL, oil	12	217 694 H1	PIN, brake anchor
5	217 643 H1	"O" RING	13	217 695 H1	LEVER, secondary brake
6	217 649 H1 103 389	DRUM, brake 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

## GEARMATIC WINCH CLUTCH



## MOUNTED EQUIPMENT

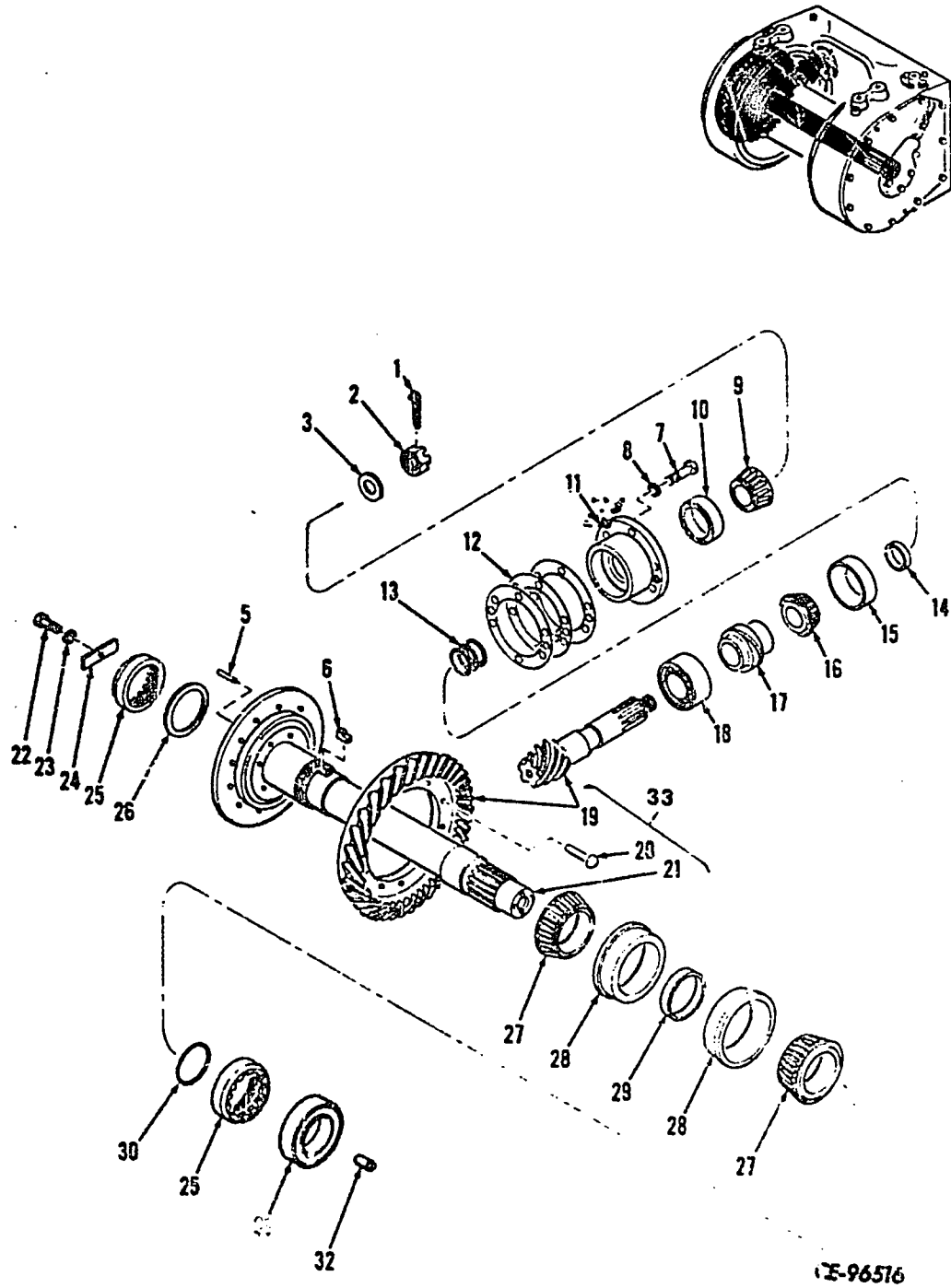
REF. NO.	PART NUMBER	DESCRIPTION
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**GEAROMATIC WINCH CLUTCH - Continued**

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

## GEARMATIC WINCH RING GEAR AND PINION SHAFT



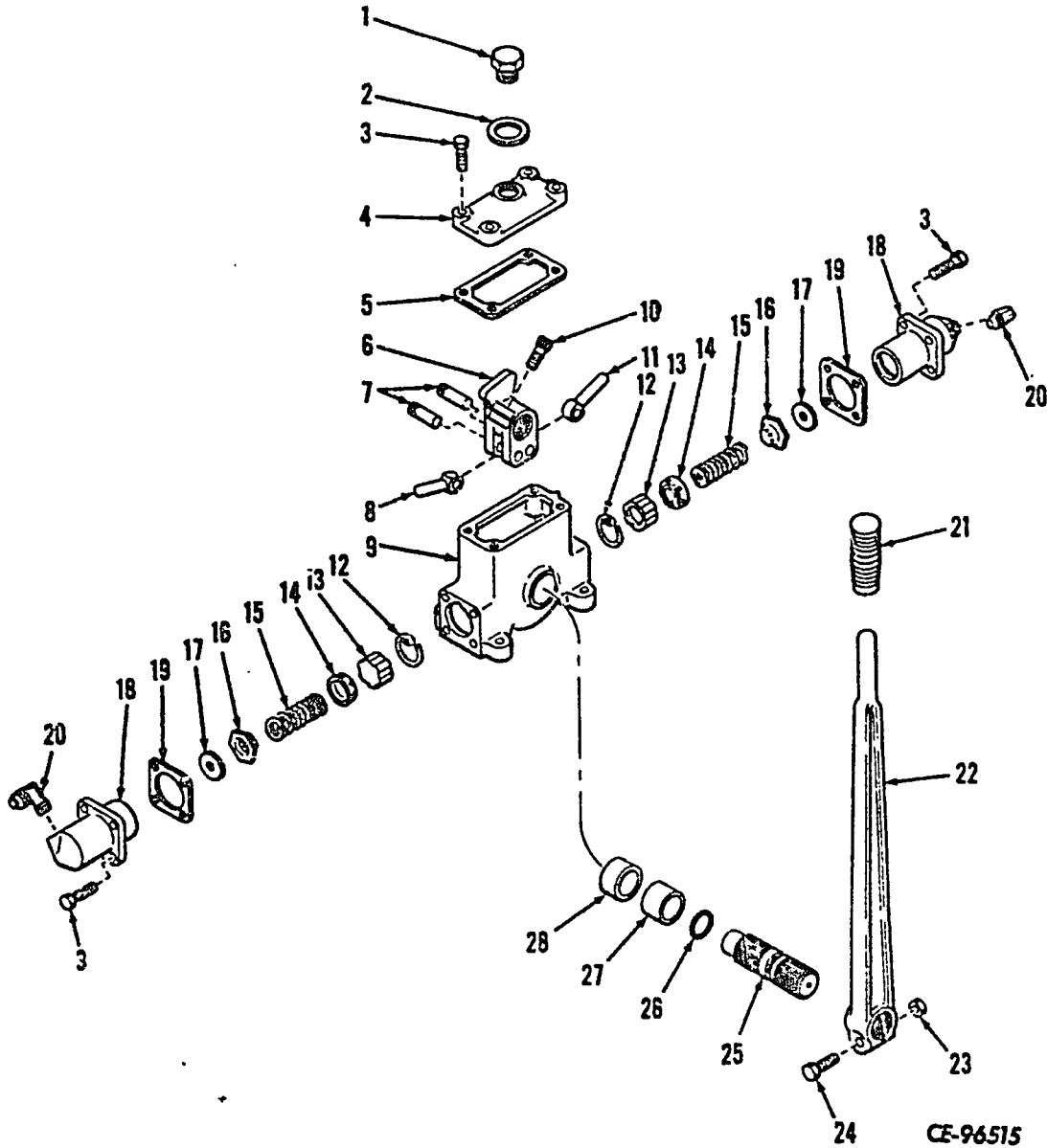
## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION	REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH RING GEAR AND PINION SHAFT - Continued			217 628 H1	HOUSING ASSY., bearing (Includes ref numbers 9 thru 11 and 13 thru 16)	
1		PIN, 1/8 x 2-1/4" cotter			
2	217 624 H1	NUT, pinion			
3	217 623 H1	WASHER, flat			
5	217 631 H1	SET, pinion adjusting (6 matched)			
6	217 691 H1	PLATE, lock			
7	24 874 R1	SCREW, hex-hd cap (6)			
8		WASHER, 11/16 x 1-3/4" x 10 ga. flat (6)			
9	ST 954	CUP, bearing			
10	ST 2035A	CONE, bearing			
11	217 709 H1	HOUSING, bearing			
12	217 425 H1	SET, shim			
13	217 711 H1	SET, shim			
14	217 712 H1	SPACER, bearing			
15	ST 957	CUP, bearing			
16	49 372 H	CONE, bearing			
17	217 627 H1	SLEEVE, spacer			
18	495 596 R21	BEARING, roller			
19	217 703 H1	CROWN GEAR and pinion			
20	217 704 H1	RIVER (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	217 449 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.			

# MOUNTED EQUIPMENT

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



	215 334 H1	CONTROL ASSY., winch master		7	202 524 H1	PIN, push rod (2)
	25 522 R1	NUT (4)		8	892 356 C1	ROD, short push
	24 841 R1	SCREW hex-hd cap (4)		9	202 482 H2	HOUSING, winch master control
	115 093	WASHER, lock (4) (Composed of -		10	202 518 H1	BOLT, rocker arm
1	202 516 H1	CAP, filler		11	892 357 C1	ROD, long push
2	202 461 H1	WASHER, fibre		12	202 530 H1	RING, lock (2)
3	25 492	SCREW, hex-hd cap (12)		13	202 531 H1	PISTON, cylinder (2)
4	202 513 H1	COVER, housing		14	202 532 H1	"U" CUP (2)
5	202 517 H1	GASKET, cover		15	202 533 H1	SPRING, cylinder (2)
6	202 523 H1	ARM, rocker				

## MOUNTED EQUIPMENT

REF. NO.	PART NUMBER	DESCRIPTION
GEARMATIC WINCH MASTER CONTROL - Continued		
16	202 528 H1	VALVE w/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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