

REPAIR PARTS CATALOG

NO. 581B

MODEL 410

FOR

BLH AUSTIN-WESTERN

SELF-PROPELLED HYDRAULIC CRANE

THIS REPAIR PARTS CATALOG APPLIES
TO MACHINES NUMBERED SERIALLY
FROM NO. 410-200 AND UP

THIS REPAIR PARTS CATALOG APPLIES
TO MACHINE NUMBERED _____

IMPORTANT: ALWAYS GIVE SERIAL NUMBER OF MACHINE AND ENGINE WHEN ORDERING PARTS.

PRICE \$1.50 PER COPY

CONTACT YOUR NEAREST BLH AUSTIN-WESTERN DISTRIBUTOR
THERE IS ONE NEAR BY

- TO THE OPERATOR -

Give the BLH Austin-Western Distributor your crane and engine serial numbers when you order parts. We suggest that you write these serial numbers in the spaces provided below for ready reference when parts are required.

Crane Serial No. _____

(Stamped on name plate attached to instrument panel)

Engine Serial No. _____

(Stamped on name plate attached to engine)

- WARRANTY -

Company warrants all BLH Austin-Western products sold to Distributor for six (6) months after date of shipment, this warranty being limited to the replacement at the factory of such parts as it appears to Company upon inspection by Company to have been defective in material and workmanship. Company makes no warranty in respect to engines, tires, rims, electrical apparatus, or any other trade accessory not manufactured by Company, such being subject to the warranty of their respective manufacturers. No warranty is made or authorized to be made by Company other than herein set forth. Distributor agrees not to alter any products purchased hereunder nor to do anything that will in any way infringe, impeach or lessen the validity of the patents or trade-marks under which Company's products are made or sold.

We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on machines sold previously.

INSTRUCTIONS FOR ORDERING PARTS

When ordering parts, follow the instructions listed below. By doing this you will be assured of receiving the correct part in the shortest period of time.

1. Send your order to the BLH Austin-Western Distributor for your territory.
2. Give the crane and engine serial number which will be found on the name plates attached to the instrument panel and the engine.
3. Write the quantity, part number and description of the part wanted.
4. Give definite shipping instructions, that is: to whom and where the parts are to be shipped, also whether shipment is to go by parcel post, express, freight or truck, prepaid or collect.
5. Confirm all telephone or telegraph orders in writing.

RETURN OF PARTS

When you return parts to your BLH Austin-Western Distributor, be sure the package or part is tagged with your name and address; prepay transportation charges; then write to the Distributor giving full details of shipment as to when, how and why parts are being returned. Give the machine number for which parts are being returned.

CLAIMS FOR SHORTAGE OR BREAKAGE should be made to the transportation company on receipt of goods.

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ALWAYS USE GENUINE - BLH AUSTIN-WESTERN - REPAIR PARTS

Satisfactory and efficient operation of this machine is endangered by the use of inferior repair parts. The use of cheap and imitation parts invariably means short life and higher ultimate cost.

If repair parts could be made at lower cost and sold at less price without sacrificing quality we would do so. The correct material for the purpose and the knowledge acquired through many years of manufacturing enables - The BLH Austin-Western Plant - to produce quality that will not be found in imitation parts.

You take an unnecessary risk when you use inferior repair parts. We use many bolts, studs, capscrews, etc., that are listed with part numbers. These are made of alloy steel and heat treated to give them maximum strength. They may look like ordinary bolts, studs or capscrews, but use of a substitute for them will lead to break-downs, delays and damage to machine.

When ordering a tapered roller bearing always order a set, which consists of one bearing cup and one bearing cone with rollers.

ALWAYS USE GENUINE - BLH AUSTIN-WESTERN - REPAIR PARTS

- SAFETY FIRST -

Accidents are caused by the failure of some individual to observe simple and fundamental safe rules or precaution. Accidents can be prevented by recognizing the cause of the accidents and doing something about it before the accident occurs.

Regardless of the care used in the design of a machine, there are points that cannot be completely safeguarded without interfering with accessibility and efficient operation.

A careful operator is the best insurance against an accident.

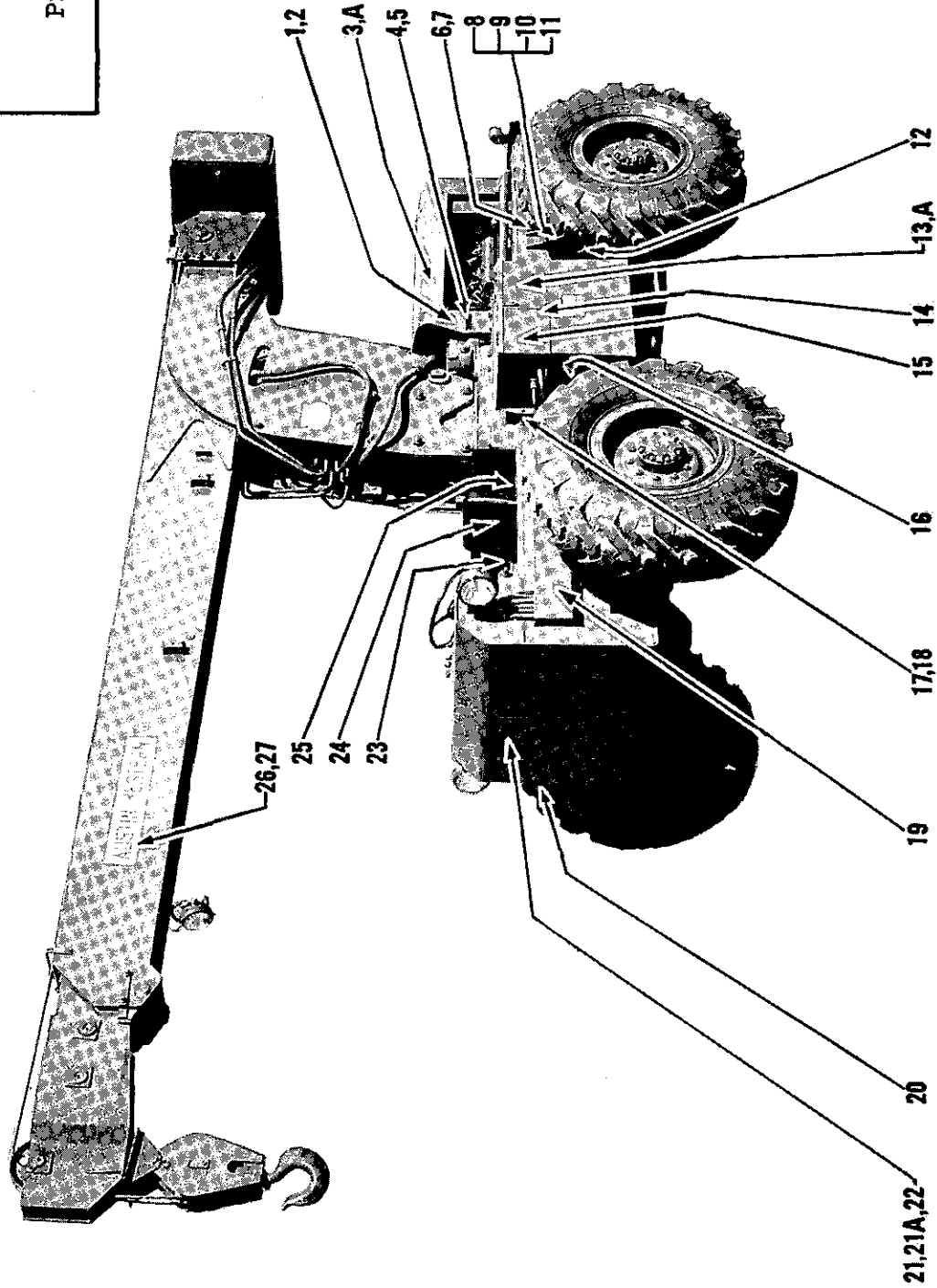
Many accidents would be prevented if the following rule were observed:

"Never attempt to clean, oil, or adjust a machine while it is in motion."



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Pintle Hook



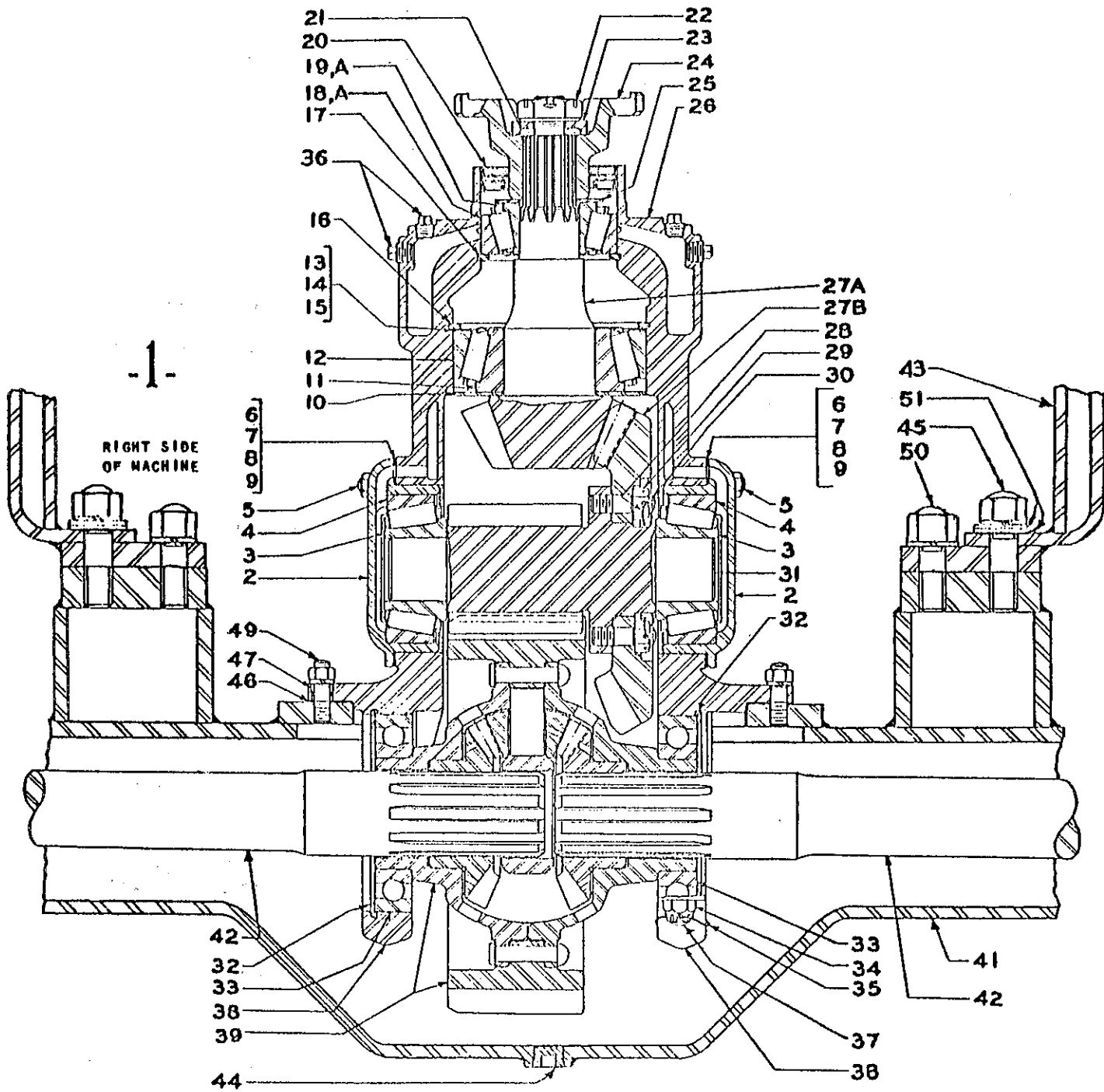
(For Part Numbers,
see next page)

MISCELLANEOUS PARTS

MISCELLANEOUS PARTS
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-6423	1	SUPPORT, hood (for Ford and IHCo. engines)
2	HCF-8251	1	SUPPORT, hood (for GMC-371 engine only)
3	HCF-2051	1	HOOD (see Ref. No. 3A for UDT-282)
3A	HCF-8766	1	HOOD (for UDT-282 engine only)
4	HCF-9805	1	PLATE, data, patent
5	918002	2	SCREW, patent plate
6	HCF-8871	2	PLATE, data, rear axle lock-out
7	751020	8	SCREW, rear axle lock-out plate (before Machine #410-1428 only)
8	HCF-2489	2	LOCK-OUT, rear axle
9	HCF-2490	2	SHAFT, rear axle lock-out
10	ASF-5147	2	SPRING, rear axle lock-out
11	755048	2	SETSCREW, cup point, rear axle lock-nut
12	HCF-2516	2	BUMPER, rubber, rear axle
13	HCF-7038	1	BOX, battery
13A	HCF-10290	1	BOX, battery (effective on Machine #410-1840 & up)
14	HCF-1747-28	4	CAGE NUT
15	HCF-4750	1	SHIELD
16	HCF-2870	2	STEP, mainframe
17	HCF-6882	4	BAR, tie, hydraulic oil tank and tool box
18	HCF-6871	4	SPACER, tie bar
19	HCF-6879	1	COVER, hydraulic tubes, left side
20	HCF-6878	1	COVER, hydraulic tubes, right side
21	HCF-2820	1	COVER
21A	HCF-10712	1	COVER (effective on Machine #410-2260 and up)
22	923007	6	SCREW, self-tapping, hex head
23	HCF-8226	1	COVER, outrigger valve inspection hole (cranes 410-350 and up)
24	HCF-6094	1	SEAT
25	HCF-2864	1	COVER, brake drum opening
26	FGF-14230	2	PLATE, A-W name
27	751031	16	SCREW, name plate
28	HCF-3538	1	PINTLE HOOK
29	HCF-8202	2	* BRACE, rear pintle hook (outrigger support to mainframe)
30	HCF-2821	1	* BRACE, valve cover panel
30A	HCF-9499	1	* BRACE, valve cover panel (effective on Machine #410-2792 and up)
31	HCF-1867	2	* GROMMET, floor & valve support (1-1/4" I.D.)
32	HCF-5266	1	* BOX, tool, right side
33	FGF-14653	1 or 2	* MIRROR, rear view
34	HCU-1394	1	* HOOD SIDE GROUP for IHCo. UB-264 engine; also IHCo. UD-282 engine with 30 AMP generator (includes R. and L.H. - consists of Ref. Nos. 35, 36, 37 and 38)
35	HCF-8269	1	* SIDE, right hand, hood
36	HCF-3761	1	* SIDE, left hand, hood
37	FGF-3892	6	* HANGER, hood
38	BRF-1546	4	* FASTENER, hood side
39	HCU-1397	1	* HOOD SIDE GROUP for Ford 332 engine only (includes R. and L.H. - consists of Ref. Nos. 37, 38, 40 and 41)
40	HCF-8275	1	* SIDE, right hand, hood
41	HCF-5647	1	* SIDE, left hand, hood
42	HCU-1396	1	* HOOD SIDE GROUP for GMC-371 engine only (includes R. and L.H. - consists of Ref. Nos. 37, 38, 43 and 44)
43	HCF-8270	1	* SIDE, right hand, hood
44	HCF-6292	1	* SIDE, left hand, hood
45	HCU-1395	1	* HOOD SIDE GROUP for IHCo. UD-282 engine only with 50 AMP. generator (includes R. and L.H. - consists of Ref. Nos. 36, 37, 38 and 46)
46	HCF-8276	1	* SIDE, right hand, hood

Note: * Parts not illustrated.



(For Part Numbers,
see next page)

FRONT AXLE GEAR CARRIER

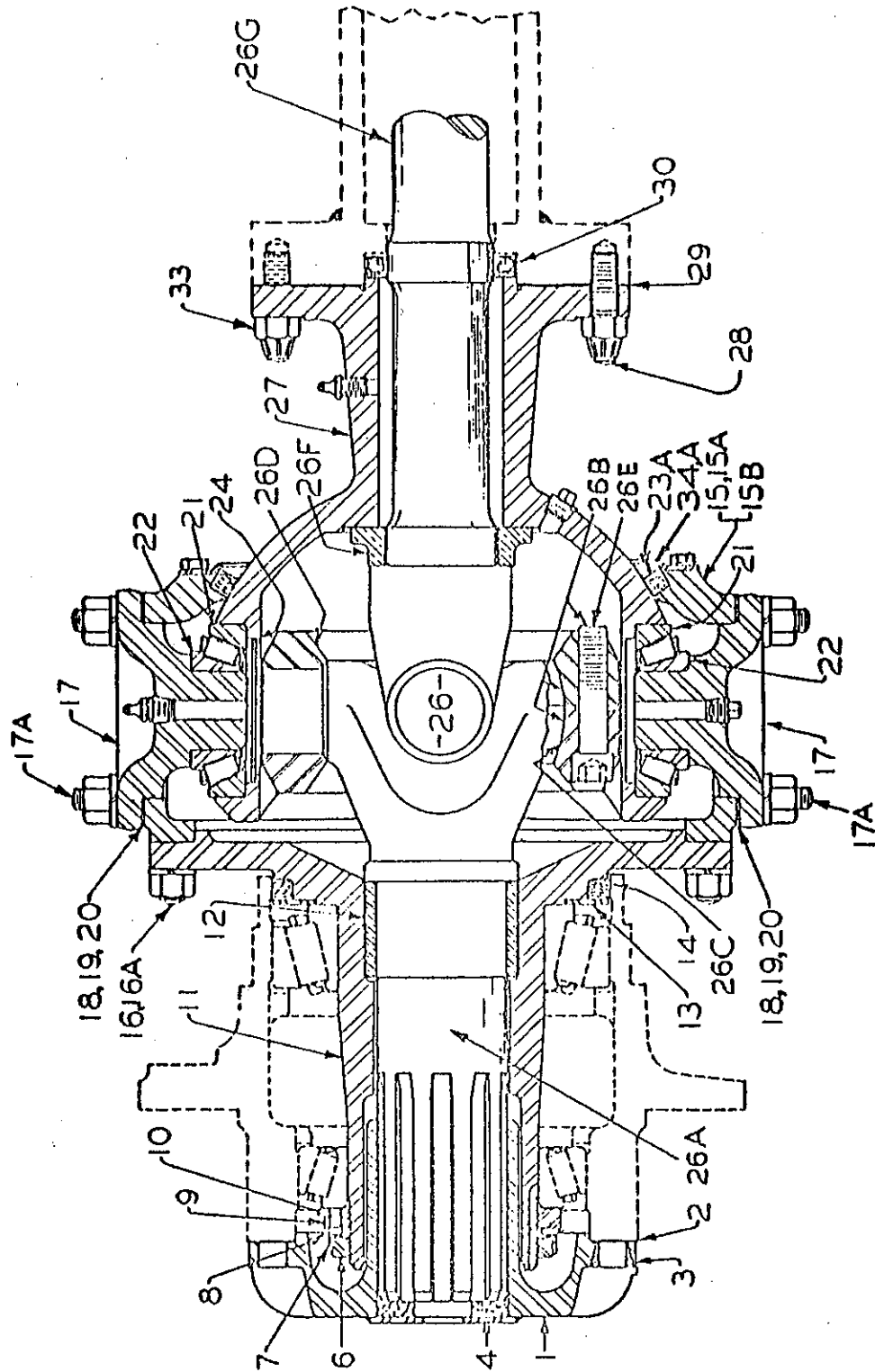
FRONT AXLE GEAR CARRIER
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCU-348-A	1	FRONT AXLE GEAR CARRIER GROUP (includes Ref. Nos. 2 to 40 inclusive)
2	PGF-15068	2	BEARING CAP WITH CUP (includes Ref. No. 4)
3	312547	2	CONE AND ROLLERS, bearing
4	313208	2	CUP, bearing
5	PGF-15052	12	STUD
6	PGF-15379	4	GASKET
7	PGF-12789	As req'd	SHIM - .005" thick
8	PGF-12790	As req'd	SHIM - .007" thick
9	PGF-12791	As req'd	SHIM - .020" thick
10	PGF-12610	1	RETAINER, oil
11	312564	1	CONE AND ROLLERS, bearing
12	313213	1	CUP, bearing
13	PGF-12608	As req'd	SHIM - .005" thick
14	PGF-12607	As req'd	SHIM - .007" thick
15	PGF-12609	As req'd	SHIM - .020" thick
16	PGF-12595	1	RING, snap
17	PGF-12862	1	RING, snap
18	313393	1	CUP, bearing (order Ref. 18A and 19A)
18A	313471	1	CUP, bearing
19	312863	1	CONE AND ROLLERS, bearing (order Ref. 18A & 19A)
19A	319027	1	CONE AND ROLLERS, bearing
20	PGF-12863	1	SEAL, oil
21	HCF-2108	1	WASHER, felt
22	PGF-15388	1	NUT, slotted
23	HCF-2107	1	RETAINER, felt
24	PGF-8537-58	1	YOKE, fitting
25	PGF-4852	1	WASHER, spline shaft
26	HCF8-396	1	GEAR CARRIER (includes Ref. Nos. 5, 34, 37 and 38)
27A	PGF-13711	1	* PINION AND SHAFT
27B	PGF-13711	1	* GEAR, spiral bevel
28	PGF-9436	1	WIRE, locking
29	734007	9	NUT, slotted
30	PGF-13709	9	STUD
31	HCF-8511	1	PINION AND HUB
32	PGF-12594	2	WASHER, differential bearing
33	311340	2	BEARING, ball, differential hub
34	727007	4	NUT, castellated
35	PGF-9486	2	WIRE, locking
36	810002	4	PLUG, pipe
37	PGF-13739	4	STUD
38		2	@ CAP, bearing
39	PGF-12771	1	# DIFFERENTIAL GROUP
40	HCF-6418	1	PLUG, gear carrier vent, top (not shown)
41	HCF-7365	1	HOUSING, front axle
42	PGF-14723	2	SHAFT, drive
43		1	MAINFRAME
44	812004	1	PLUG, drain, countersunk head
45	PGF-14701	4	STUD - 4" long
46	HCF-9011	1	GASKET
47	PGF-3084	1	BUSHING, taper
48	810003	1	PLUG, axle housing, oil level, square head (not shown)
49	ASF-5112	12	STUD
50	PGF-11905	4	STUD - 3" long
51	HCF 2977	8	WASHER

Note: * Bevel pinion and bevel gear sold in matched sets only.

@ Bearing caps not sold separately. Order Ref. 26, HCF8-396, complete gear carrier casting.

Differential repair parts not sold separately. Order complete differential group.



(For Part Numbers,
see next page)

FRONT AXLE STEERING KNUCKLE AND UNIVERSAL JOINT

FRONT AXLE STEERING KNUCKLE AND UNIVERSAL JOINT
(For illustration, see preceding page)

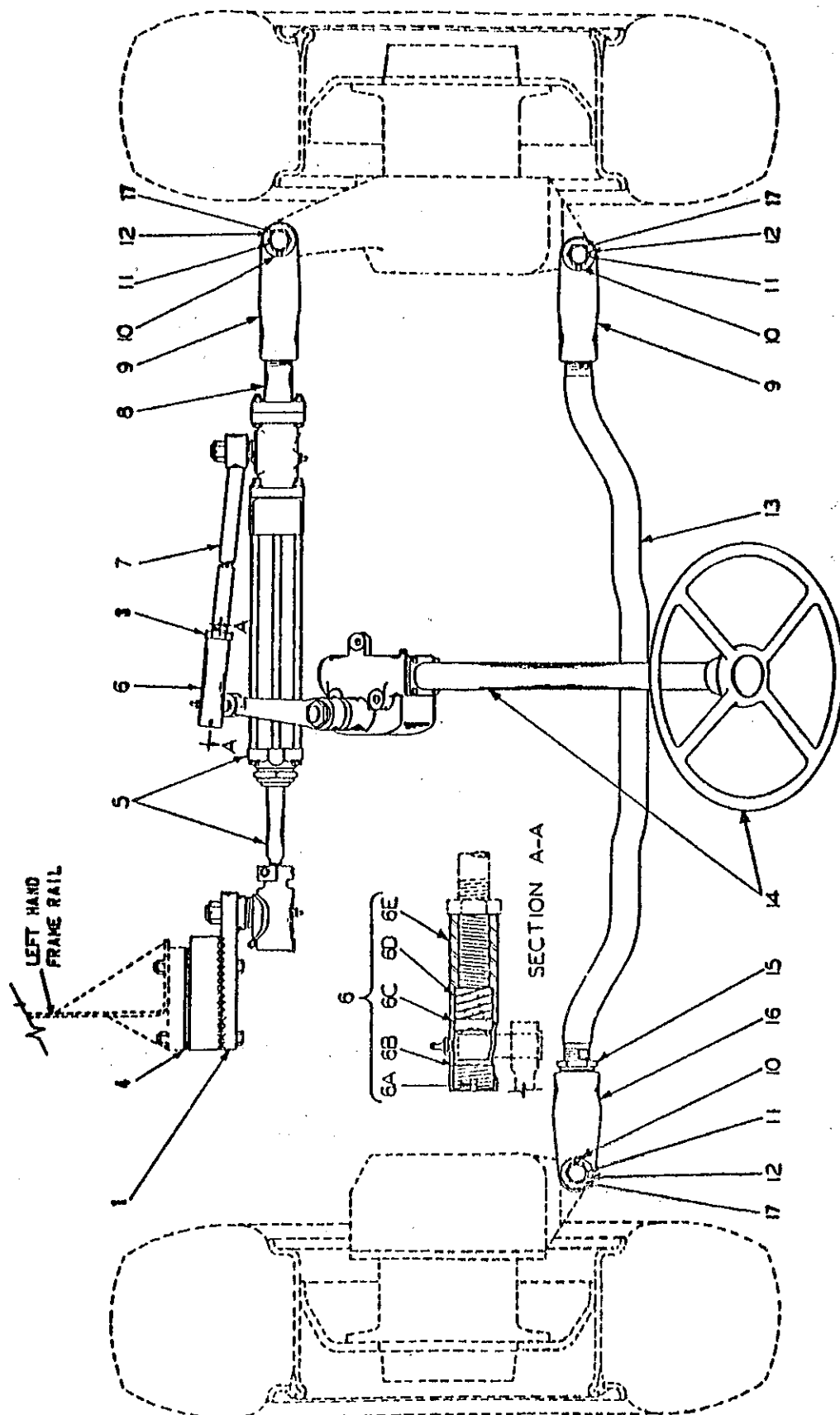
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9377	1	HUB, driving
2	PGF-3186	1	GASKET
3	PGF-3610	4	BUSHING, dowel
4	PGF-7012	1	FELT
6	PGF-5436	1	NUT, lock
7	PGF-5439	1	WASHER, lock
8	PGF-5438	1	WASHER
9	PGU-5437	1	NUT, adjusting - with pin (includes Ref. No. 10)
10	PGF-3677	1	PIN, adjusting nut
11	HCF-2718	1	SPINDLE, wheel
12	PGF-5591	1	BUSHING
13	PGF-4358	1	WASHER
14	PGF-4360	1	FELT
15	HCP-385	1	FLANGE - R.H., knuckle - with two PGF-8753 bushings (used with steering shown on page B-4.10)
15A	HCP-386	1	FLANGE - L.H., knuckle - with one PGF-8753 bushings (used with steering shown on pages B-4.10 and B-4.11)
15B	HCP-574	1	FLANGE - R.H., knuckle - with one PGF-8753 bushing (used with steering shown on page B-4.11)
16	PGF-4361	8	STUD - 2-1/8" long
16A	HCF-2757	3	STUD - 1-3/4" long
17	PGF-4341	2	CAP, steer bearing
17A	PGF-4350	8	STUD
18	PGF-4345	As req'd	SHIM (.005)
19	PGF-4346	As req'd	SHIM (.007)
20	PGF-4347	As req'd	SHIM (.020)
21	313380	2	CUP, bearing
22	312836	2	CONE AND ROLLERS, bearing
23	PGF-4362	1	FELT
23A	HCF-7781	1	FELT (cranes 410-250 and up)
24	PGF-4339-2	1	RETAINER, grease
26	HCU-351	1	RING AND SHAFT GROUP, bearing - (includes Ref. Nos. 26A, B, F and G)
26A	PGF-11923	1	SHAFT, drive - short
26B	PGF-11927	1	RING GROUP (includes Ref. Nos. 26C, D and E)
26C		1	* RING (male)-(not sold separately. Order Ref. No. 26B)
26D		1	* RING (female)-(not sold separately. Order Ref. No. 26B)
26E	PGF-12612	8	CAPSCREW, hollow head
26F	PG-2123	1	RETAINER, axle
26G	PGF-14723	1	SHAFT, drive - long
27	HCF-8781	1	SOCKET, trunnion
28	PGF-15888	9	STUD
29	HCF-6680	1	GASKET
30	194206	1	SEAL, oil
33	914008	9	NUT, huglock
34	HCF-6596	1	PLATE, flange
34A	HCF-7789	1	PLATE, flange (cranes 410-250 and up)

Note: * Sold in pairs only.

FRONT AXLE STEERING KNUCKLE, WHEEL AND TIRE
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-15489-32	1	TIRE - 14.00 x 24 - 16 ply (Goodyear Sure Grip)
1A	PGF-15489-33	1	TIRE - 14.00 x 24 - 16 ply (Firestone Super Ground Grip)
1B	PGF-9860-22	1	TIRE - 16.00 x 20 - 14 ply (Goodyear All Weather)
1C	PGF-9860-21	1	TIRE - 16.00 x 20 - 14 ply (Goodyear Sure Grip)
2	PGF-9859-29	1	TUBE - 14.00 x 24 with TR-220 valve
2A	PGF-9859-6	1	TUBE - 16.00 x 20 with TR-220 valve
3	PGF-10471	1	FLAP, tire (16.00 tire)
3A	HCF-7023	1	FLAP, tire (14.00 tire)
4	PGF-12992	2	RING, side (16.00 tire)
4A	PGF-16693	1	RING, lock (14.00 tire)
4B	PGF-16694	1	RING, side (14.00 tire)
5	HCF-2769	2	PLUG
6	HCF-7424	1	WHEEL WITH RIM (16.00 tire)
6A	HCF-7015	1	WHEEL WITH RIM (14.00 tire)
7	HCF-8302	10	STUD, wheel
8	PGF-7357	10	NUT, wheel stud
9	HC-232	1	HUB, wheel
10	PGF-8498	8	STUD
11	313366	1	CUP, bearing
12	312814	1	CONE AND ROLLERS, bearing
13			HYDRAULIC BRAKE GROUP (see separate page)
14	HC-234	1	PLATE, backing
15	HC-362	1	DRUM, brake
16	BTF-890	9	STUD
17			NUT, slotted
18			BUSHING, knuckle flange
19			BOLT, fork
20	312854	1	CONE AND ROLLERS, bearing
21	313388	1	CUP, bearing
22			WHEEL CYLINDER GROUP (see separate page)
23	811000	1	PLUG, pipe, slotted

(see
separate
page)

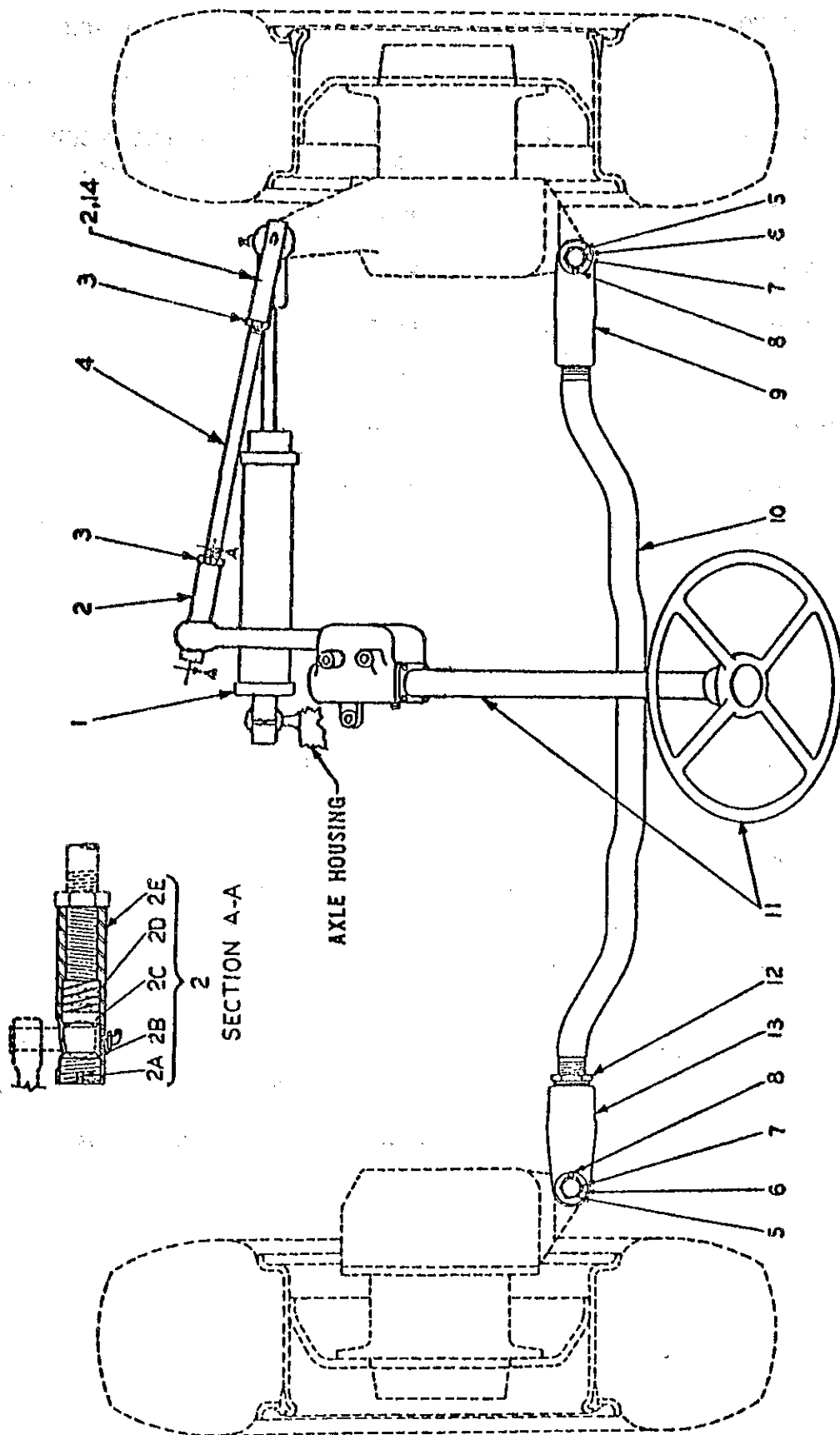


(For Part Numbers,
see next page)

FRONT AXLE STEERING MECHANISM

FRONT AXLE STEERING MECHANISM
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-4698	1	BRACKET (4-Wheel drive)
2	HCF-4377	1	STEERING GEAR SUPPORT (not illustrated)
3	HCF-3563	1	NUT, jam, drag link
4	HCF-4710	As req'd	SHIM
5			STEERING BOOSTER RAM (see separate page)
6	HCF-2417	1	ADJUSTING BALL SOCKET GROUP (includes Ref. Nos. 6A to 6E inclusive)
6A	166022	1	PIN, cotter
6B	120007	1	PLUG
6C	120006	1	BEARING
6D	120008	1	SPRING
6E	120005	1	SOCKET
7	HCF-2450	1	LINK, drag
8	HCF-2068	1	ADAPTER, drag link
9	PG-2212	2	FORK
10	PGF-13270	3	PIN, fork
11	PGF-8757	3	BOLT, fork
12	737010	3	NUT, slotted
13	HCF-2556	1	ROD, tie
14			STEERING GEAR AND COLUMN (see separate page)
15	PGF-3955	1	NUT, adjusting
16	PG-2211	1	FORK
17	PGF-8753	3	BUSHING, knuckle flange



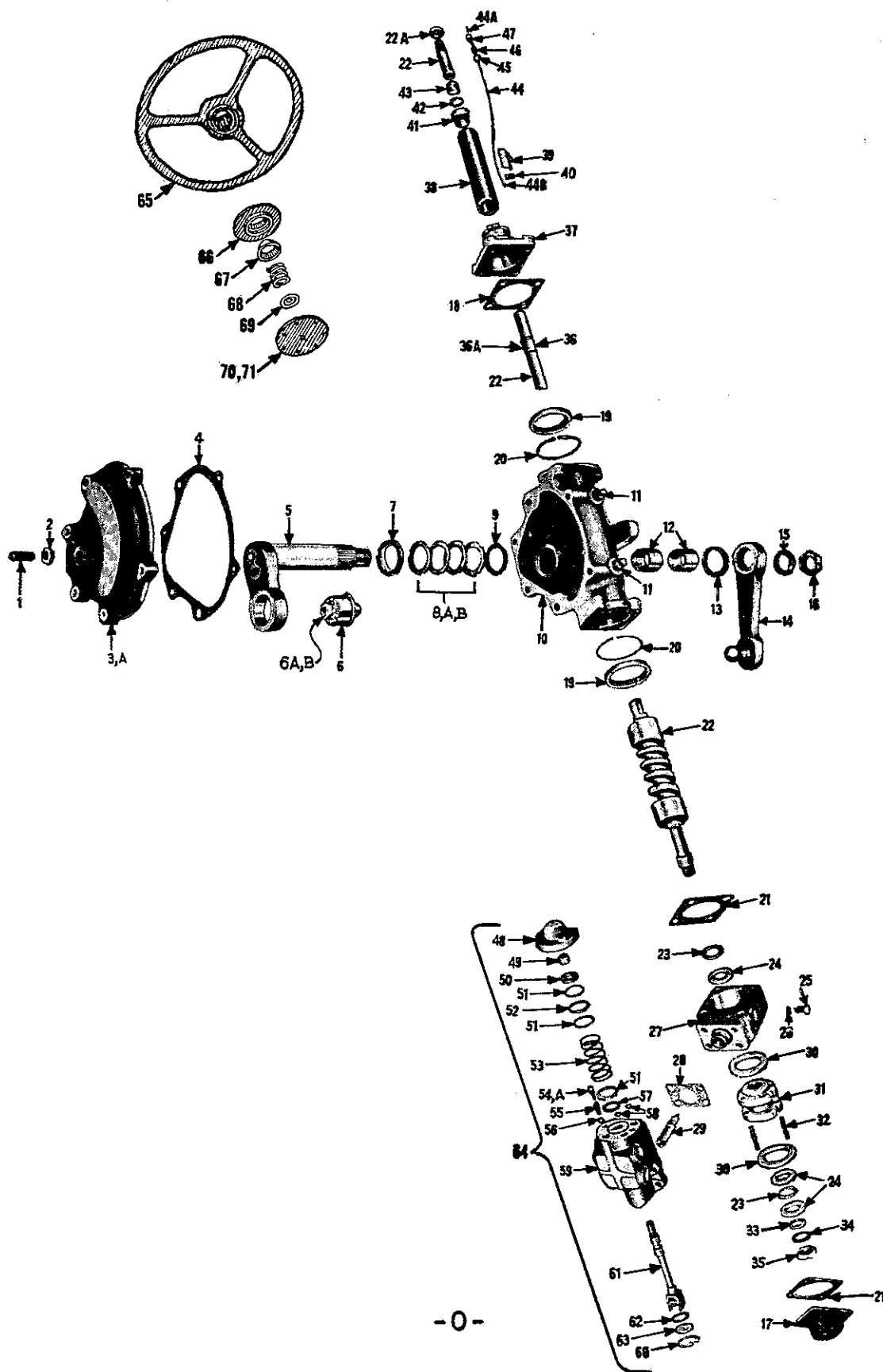
(For Part Numbers,
see next page)

FRONT AXLE STEERING MECHANISM

(Superseded Page B-4.10
from Serial No. 410-200)

FRONT AXLE STEERING MECHANISM
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			STEERING BOOSTER RAM (see separate page)
2	HCF-2417	2	ADJUSTING BALL SOCKET GROUP (includes Ref. Nos. 2A to 2E inclusive)
2A	166022	1	PIN, cotter
2B	120007	1	PLUG
2C	120006	1	BEARING
2D	120008	1	SPRING
2E	120005	1	SOCKET
3	HCF-3563	2	NUT, jam - drag link
4	HCF-7350	1	LINK, drag
5	PGF-8753	2	BUSHING, knuckle flange
6	737010	2	NUT, slotted
7	PGF-8757	2	BOLT, fork
8	PGF-13270	2	PIN, fork
9	PG-2212	1	FORK
10	HCF-2556	1	ROD, tie
11			STEERING GEAR AND COLUMN (see separate page)
12	PGF-3955	1	NUT, adjusting
13	PG-2211	1	FORK
14	HCF-8182	1	ADJUSTING BALL SOCKET GROUP (16.00 tire)
15	HCF-7351	1	STEERING GEAR SUPPORT (not illustrated)



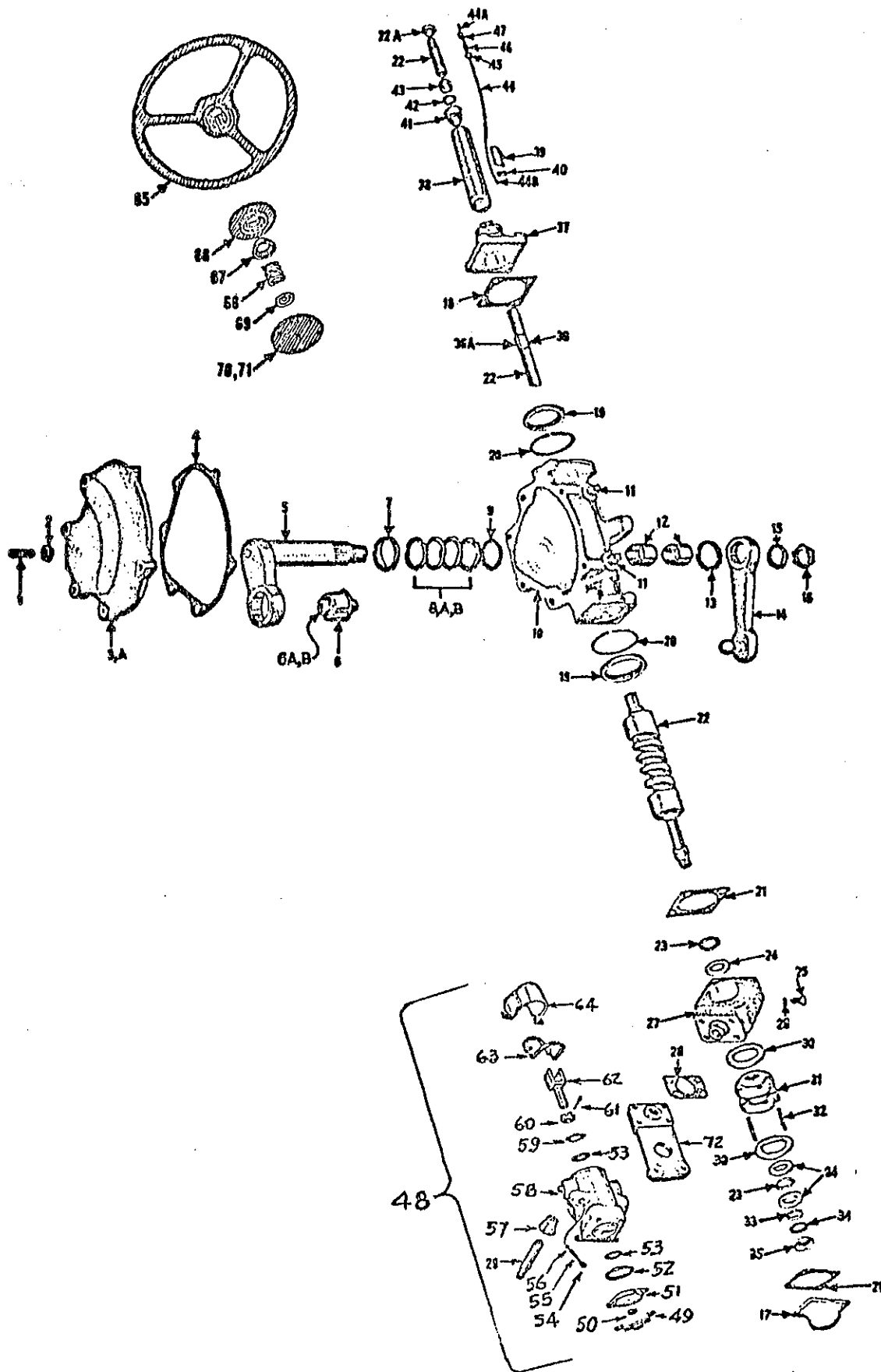
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(For Part Numbers,
see next page)

FRONT AXLE STEERING GEAR AND COLUMN

FRONT AXLE STEERING GEAR AND COLUMN
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-8285	1	STEERING GEAR AND COLUMN GROUP
1	422024	1	SCREW, adjusting
2	422025	1	NUT, lock
3	422148	1	HOUSING COVER GROUP (includes Ref. Nos. 1, 2 and 3A)
3A	422149	1	COVER, housing side
4	422150	1	GASKET, side cover
5	422151	1	LEVERSHAFT GROUP (includes Ref. Nos. 6, 15 and 16)
6	422152	1	STUD ROLLER BEARING GROUP (includes Ref. Nos. 6A and 6B)
6A	422100	1	NUT
6B	422031	1	WASHER, pronged
7	422153	1	WASHER
8	422154	As req'd	SHIM (.003)
8A	422155	As req'd	SHIM (.010)
8B	422156	As req'd	SHIM (.020)
9	422157	1	WASHER, retaining
10	422158	1	HOUSING GROUP (includes Ref. Nos. 12, 13, 19 and 20)
11	810002	3	FLUO, pipe
12	422159	2	BUSHING
13	422160	1	SEAL, oil
14	422161	1	ARM, steering
15	422162	1	WASHER, lock
16	422163	1	NUT, levershaft
17	422164	1	COVER, end
18	422165	1	GASKET
19	422166	2	BEARING, cam
20	422167	2	RIM, bearing retainer
21	422168	2	GASKET
22	422169	1	CAM AND WHEEL TUBE
22A	422050	1	NUT, wheel
23	422170	2	BEARING
24	422171	3	WASHER
25	422172	1	SCREW, actuator retainer
26	422173	1	WASHER, seal
27	422174	1	ACTUATOR HOUSING WITH BUSHING
28	422175	1	GASKET
29	422176	1	LEVER, actuating
30	422177	2	WASHER, centering
31	422178	1	ACTUATOR
32	422179	4	SPRING, centering
33	422180	1	WASHER, tongued (single)
34	422181	1	WASHER, tongued (multiple)
35	422182	1	NUT, adjusting
36	422183	1	RING, contact
36A	422184	1	SCREW, mounting
37	422185	1	COVER, upper
38	422186	1	JACKET TUBE GROUP (includes Ref. No. 41)
39	422187	1	BRUSH, contact
40	422188	1	SPACER
41	422189	1	BEARING UNIT GROUP (includes Ref. Nos. 42 and 43)
42	422190	1	WASHER
43	422191	1	SPRING
44	422192	1	HORN CAULE GROUP (includes Ref. Nos. 44A, 44B and 47)
44A	422096	1	TERMINAL, upper
44B	422193	1	TERMINAL, lower
45	422114	1	CUP, contact
46	422072	1	SPRING, contact
47	422069	1	FERRULE, insulating
48	422194	1	END COVER
49	422195	1	NUT, elastic stop
50	422196	1	WASHER
51	422197	3	WASHER, centering, inner
52	422198	1	O-RING (1-1/16" OD)
53	422199	1	SPRING
54	422200	1	PLUG WITH O-RING
54A	422210	1	O-RING (3/8" OD)
55	422201	1	SPRING
56	422202	1	BALL
57	422203	1	O-RING
58	422204	2	O-RING
59		1	VALVE BODY AND SPOOL (order Ref. No. 64)
60	422209	1	RING, retaining
61	422206	1	FLEXURE ROD WITH CLEVIS
62	422207	1	O-RING (1-1/8" OD)
63	422208	1	PLATE, cover
64	422205	1	VALVE GROUP (includes Ref. Nos. 48 to 63 inclusive)
65	422008	1	WHEEL, steering
66	422211	1	HORN BUTTON WITH CAP
67	422064	1	CUP, contact
68	422065	1	SPRING, horn button
69	422066	1	CAP, contact
70	422113	1	PLATE, base
71	422125	3	SCREW, wood

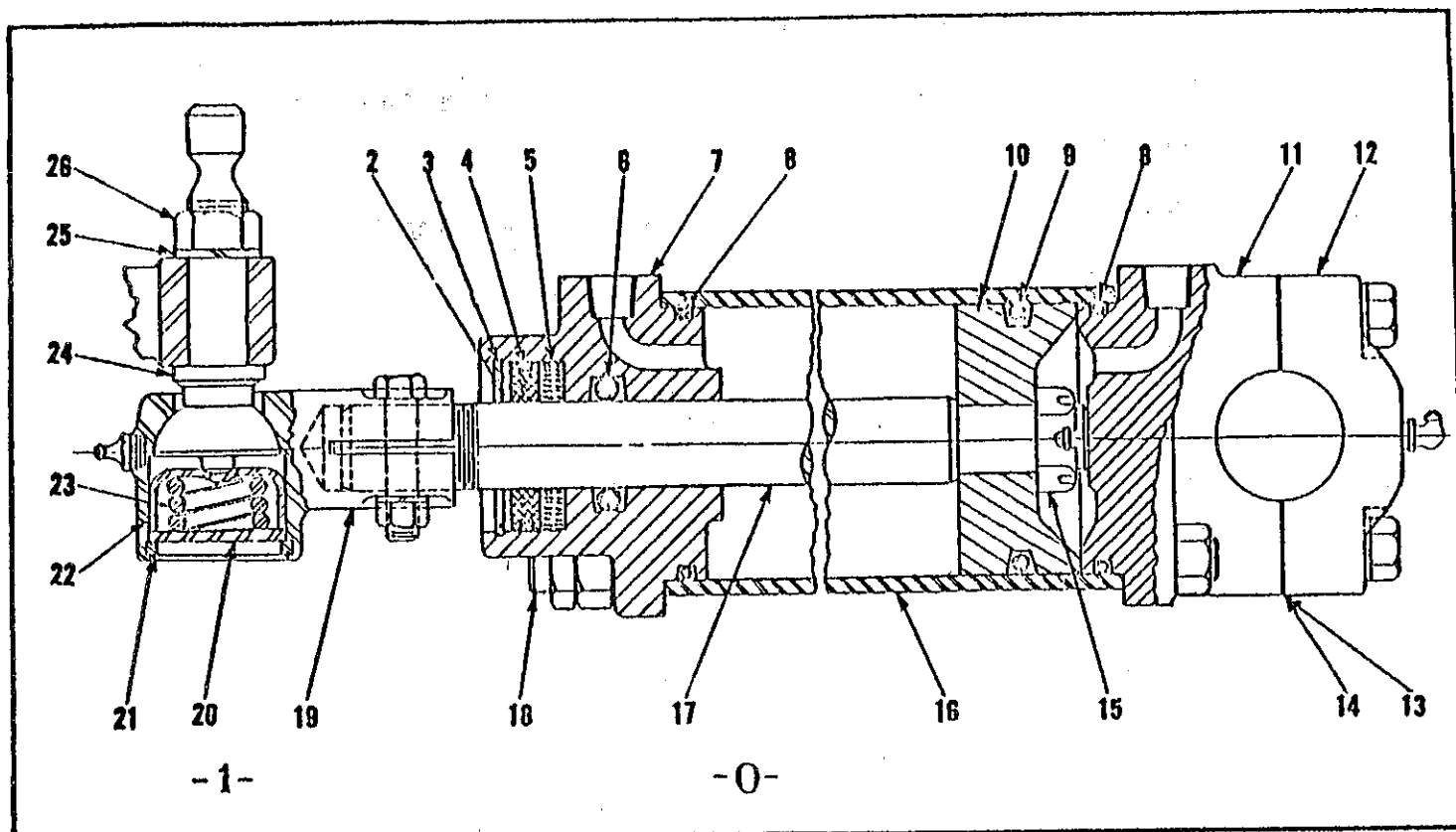


(For Part Numbers,
see next page)

FRONT AXLE STEERING GEAR AND COLUMN
(Superseded Page B-5.11 from Serial No. 410-450)

STEERING GEAR AND COLUMN
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-8505	1	STEERING GEAR AND COLUMN GROUP
1	422024	1	SCREW, adjusting
2	422025	1	NUT, lock
3	422148	1	HOUSING COVER GROUP (includes Ref. Nos. 1, 2 and 3A)
3A	422149	1	COVER, housing side
4	422150	1	GASKET, side cover
5	422151	1	LEVERSHAFT GROUP (includes Ref. Nos. 6, 15 and 16)
6	422295	1	STUD ROLLER BEARING GROUP (includes Ref. Nos. 6A and 6B)
6A	422108	1	NUT
6B	422031	1	WASHER, pronged
7	422153	1	WASHER
8	422154	As req'd	SHIM (.003)
8A	422155	As req'd	SHIM (.010)
8B	422156	As req'd	SHIM (.020)
9	422157	1	WASHER, retaining
10	422158	1	HOUSING GROUP (includes Ref. Nos. 12, 13, 19 and 20)
11	810002	3	PLUG, pipe
12	422159	2	BUSHING
13	422160	1	SEAL, oil
14	422161	1	ARM, steering
15	422162	1	WASHER, lock
16	422163	1	NUT, levershaft
17	422164	1	COVER, end
18	422165	1	GASKET
19	422166	2	BEARING, cam
20	422167	2	RING, bearing retainer
21	422168	2	GASKET
22	422169	1	CAM AND WHEEL TUBE
22A	422050	1	NUT, wheel
23	422170	2	BEARING
24	422171	3	WASHER
25	422172	1	SCREW, actuator retainer
26	422173	1	WASHER, seal
27	422278	1	ACTUATOR HOUSING
28	422285	1	GASKET
29	422296	1	LEVER, actuating
30	422281	2	WASHER, centering
31	422178	1	ACTUATOR
32	422279	2	SPRING, centering
33	422180	1	WASHER, tongued (single)
34	422181	1	WASHER, tongued (multiple)
35	422182	1	NUT, adjusting
36	422183	1	RING, contact
36A	422184	1	SCREW, mounting
37	422185	1	COVER, upper
38	422186	1	JACKET TUBE GROUP (includes Ref. No. 41)
39	422187	1	BRUSH, contact
40	422188	1	SPACER
41	422189	1	BEARING UNIT GROUP (includes Ref. Nos. 42 and 43)
42	422190	1	WASHER
43	422191	1	SPRING
44	422192	1	HORN CABLE GROUP (includes Ref. Nos. 44A, 44B and 47)
44A	422096	1	TERMINAL, upper
44B	422193	1	TERMINAL, lower
45	422114	1	CUP, contact
46	422072	1	SPRING, contact
47	422069	1	FERRULE, insulating
48	422297	1	VALVE GROUP (includes Ref. Nos. 49 to 64 inclusive)
49	422291	1	RETAINER, rubber seal
50	422290	1	SEAL
51	422288	1	VALVE SPOOL COVER AND SEAL ASSEMBLY
52	422289	1	"O" RING
53	422137	2	"O" RING
54	422287	1	PLUG WITH "O" RING
55	422201	1	SPRING
56	422202	1	BALL
57	422298	1	SEAL, lever
58		1	VALVE BODY AND SPOOL (order Ref. No. 48)
59	422293	1	WASHER, lock
60	422292	1	NUT, slotted
61	422294	1	PIN, cotter
62	422299	1	CLEVIS ASSEMBLY
63	422300	1	SEAL, lever cover
64	422301	1	COVER, lever
65	422008	1	WHEEL, steering
66	422211	1	HORN BUTTON WITH CAP
67	422064	1	CUP, contact
68	422065	1	SPRING, horn button
69	422066	1	CAP, contact
70	422113	1	PLATE, base
71	422125	3	SCREW, wood
72	422282	1	VALVE MOUNTING BRACKET ASSEMBLY



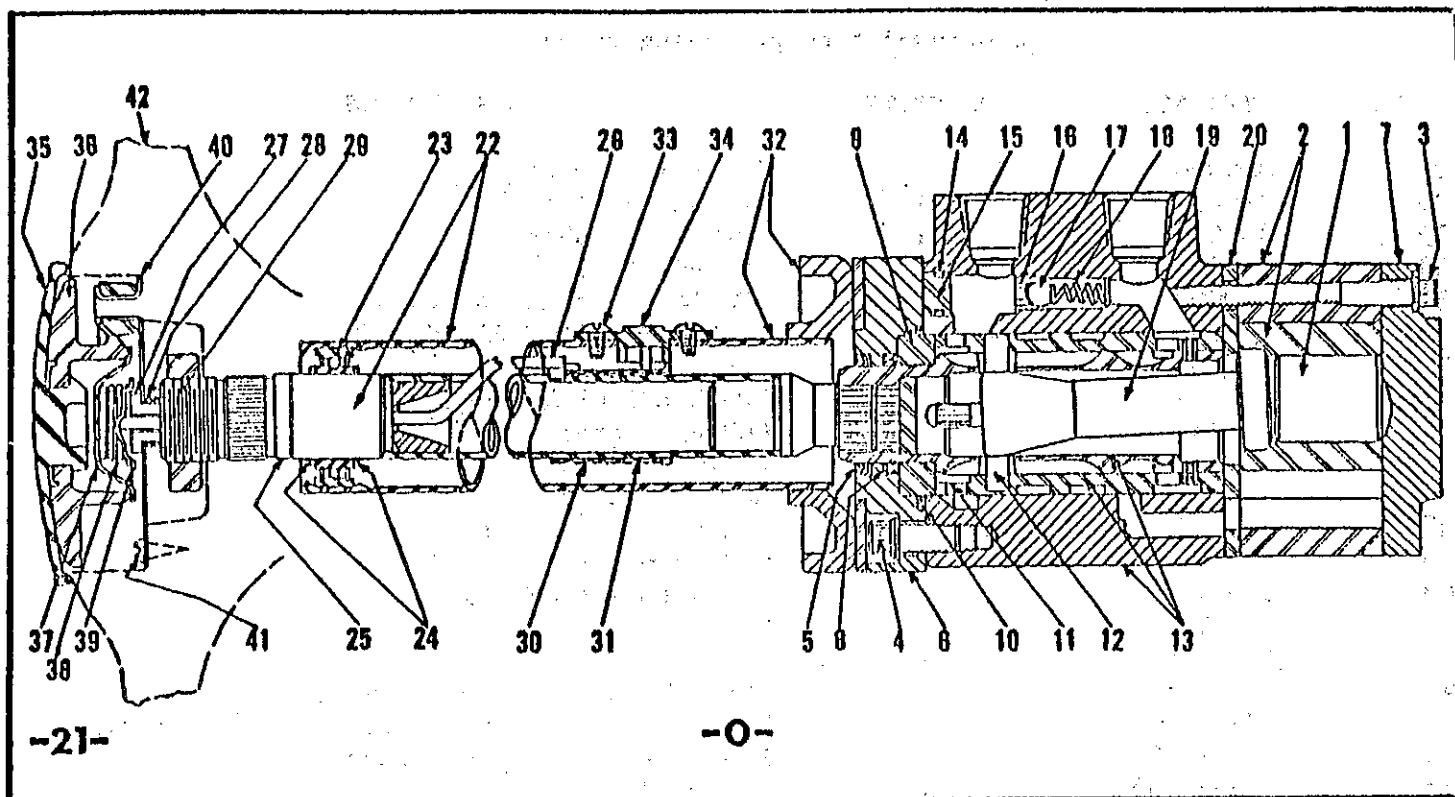
BOOSTER RAM FOR FRONT AXLE STEERING
(With Non-Integral Control Valve)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1164	1	STEERING BOOSTER RAM GROUP (includes Ref. Nos. 2 to 26 inclusive)
1	HCU-9623	1	SOCKET GROUP (includes Ref. Nos. 19 to 26 inclusive)
2	PGF-13171	1	WASHER
3	PGF-4515	1	RING, snap
4	PGF-7026	1	WIPER
5	PGF-7022	1	FELT
6	PGF-9648-27	1	O-RING
7	HC-502	1	HEAD
8	PGF-9648-1	2	O-RING
9	PGF-9648-11	1	O-RING
10	HC-501	1	PISTON
11	HC-503	1	BASE

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
12	PGF-9487	1	CAP, ball
13	MGF-1992	4	SHIM, ball cap (.024)
14	PGF-11856	4	SHIM, ball cap (.010)
15	734011	1	NUT, slotted
16	HCF-7345	1	CYLINDER
17	HCF-7343	1	ROD, piston
18	HCF-7347	4	ROD, tie
19	PGF-4256	1	SOCKET
20	PGF-4261	1	PLUG
21	PGF-4260	1	WIRE, lock
22	PGF-4258	1	SEAT, spring
23	PGF-4259	1	SPRING
24	HCF-7349	1	STUD, ball
25	778025	1	WASHER, lock
26	722013	1	NUT, hex



STEERING UNIT - ORBITROL

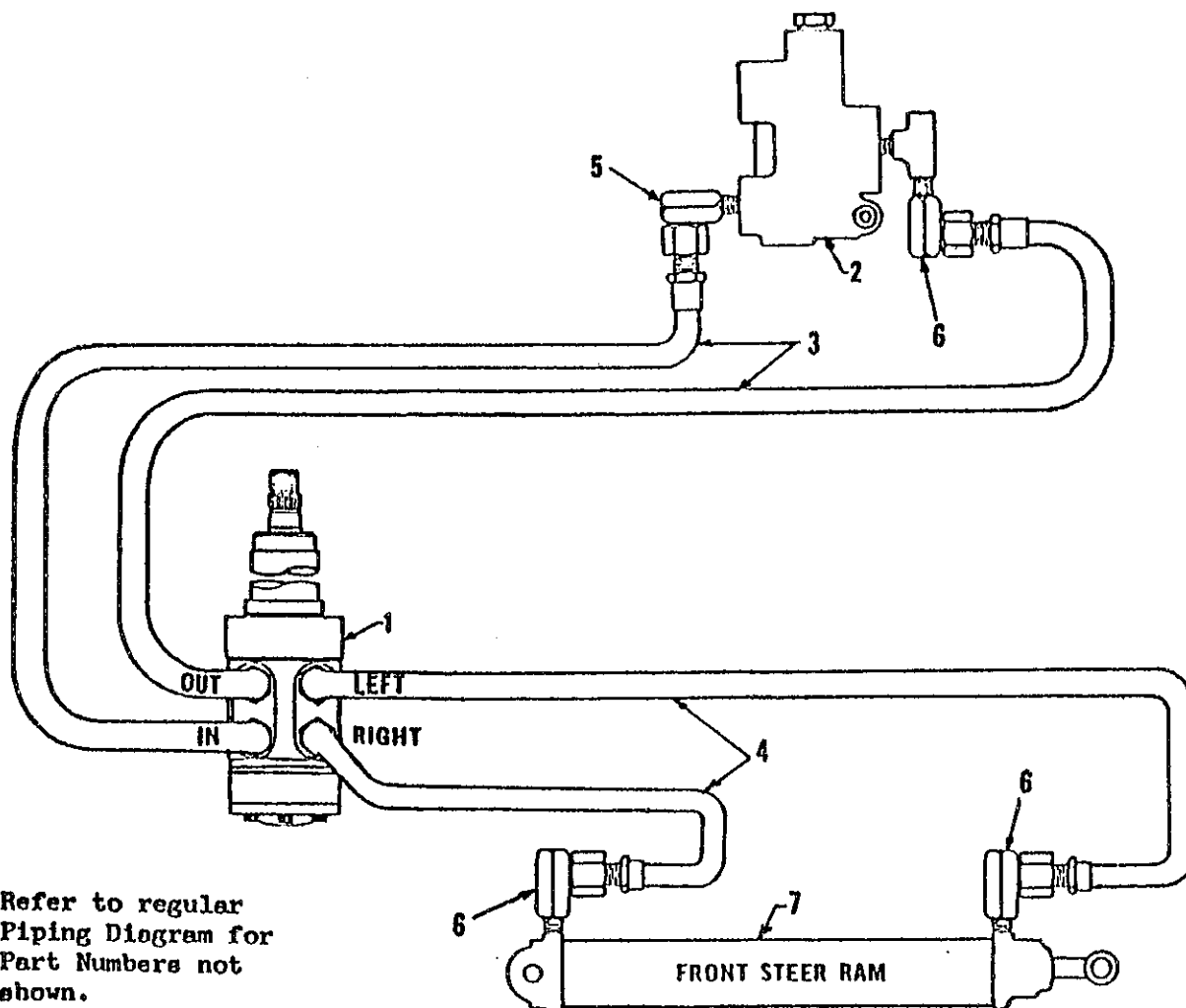
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-10194	1	STEERING UNIT ORBITROL (includes Ref. Nos. 1 to 41 inclusive)
1	190072	1	SPACER
2	190073	1	GEROTOR SET
3	190074	7	SCREW
4	190049	4	SCREW, cap
5	190028	1	SEAL
6	190050	1	PLATE, mounting
7	190046	1	CAP, end
8	190031	1	SEAL
9	190032	1	BUSHING
10	190033	1	SEAL, "O" ring
11	190034	6	SPRING
12	190035	1	PIN
13	190075	1	CONTROL PARTS ASSEMBLY
14	190037	1	SEAL, "O" ring
15	190048	1	PLUG, seal
16	190039	1	SEAT
17	190040	1	BALL
18	190041	1	SPRING
19	190042	1	DRIVE
20	190047	1	PLATE
21	190064	1	HORN KIT (includes Ref. Nos. 35 to 41 inclusive)
22	190051	1	STEERING SHAFT AND COLUMN ASSEMBLY (includes Ref. Nos. 23 to 34 inclusive)
23	190052	1	BEARING ASSEMBLY
24	190053	2	RING, snap
25	190054	1	SHAFT ASSEMBLY, steering
26	190055	1	TERMINAL AND WIRE ASSEMBLY

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
27	190056	1	INSULATOR, contact
28	190057	1	SPRING, contact
29	190058	1	CONTACT, washer
30	190059	1	CONTACT RING
31	190060	1	INSULATOR, contact ring
32	190061	1	TUBE AND FLANGE ASSEMBLY
33	190062	2	SCREW
34	190063	1	BRUSH ASSEMBLY, horn
35	190065	1	COVER, weather
36	190066	1	BUTTON, horn
37	190067	1	CUP, contact
38	190068	1	SPRING, horn button
39	190069	1	CAP, contact
40	190070	1	BASE PLATE ASSEMBLY
41	190071	3	SCREW
42	WRF-2365	1	STEERING WHEEL
43	HCF-9612	1	* SUPPORT, top steering column
44	HCF-10102	2	* BRACKET, rear steer control rod (on column)
45	HCF-10201	1	* PLATE, cover hole in floor
46	HCF-10200	1	* SUPPORT
47	HCF-10500	1	* LEVER, rear steer control
48	968123	1	* PIN, coiled spring (1-1/4" x 3/16")
49	PGF-13844	1	* WASHER
50	HCF-10203	1	* LEVER ASSEMBLY, rear steer control
51	HCF-10267	1	* SPACER, steer unit
52	HCF-7644	1	* WIRE, horn to steer unit
53	HCF-10199	1	* RING, snap, for rear steer shaft

Note: * Indicates parts not illustrated.



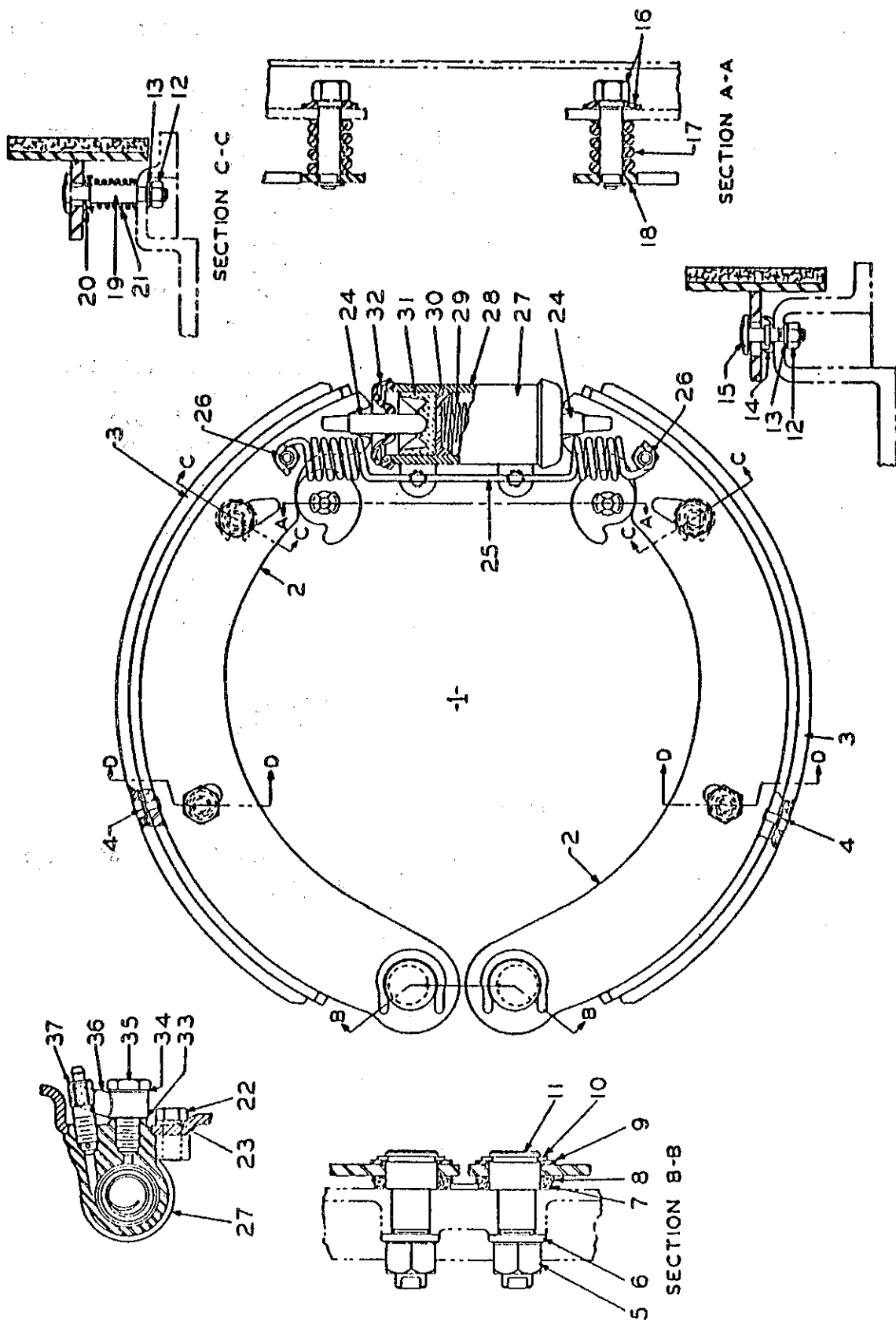
HYDRAULIC PIPING - ORBITROL STEERING

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	STEERING UNIT (see separate page)
2	HCF-10103	1	VALVE, priority (replaces regular part)
3	HCF-10133	2	HOSE ASSEMBLY (14" overall length)
4	PGF-17006	2	HOSE ASSEMBLY (28" overall length)
5	PGF-12282-4	1	ELBOW - swivel
6	PGF-12282-12	3	ELBOW - 90° swivel
7		1	CYLINDER, steering

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(For Part Numbers,
see next page)

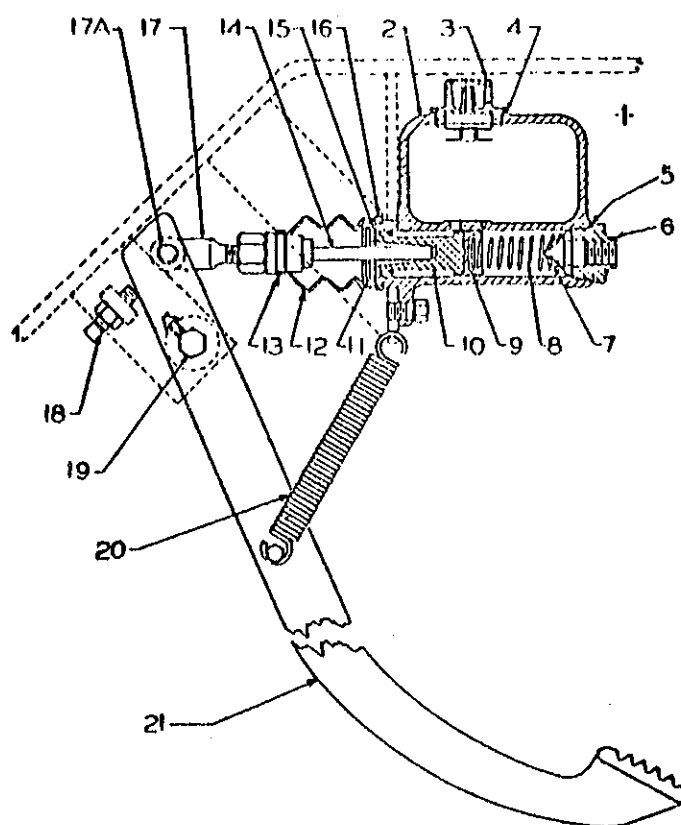
WHEEL BRAKE
(Front or Rear Wheels - 2 or 4-Wheel Drive)

WHEEL BRAKE
(Front or Rear Wheels - 2 or 4-Wheel Drive)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2729	1	BRAKE GROUP (includes Ref. Nos. 2 and 5 to 24 inclusive)
2	HCF-2729-55	1	SHOE AND LINING SET (2 shoes lined. Includes Ref. No. 3)
3	HCF-2729-56	1	LINING SET (2 linings with rivets. Includes Ref. No. 4)
4	331079	28	RIVET, tubular
5	331105	2	NUT, anchor pin
6	331098	2	LOCK WASHER, anchor pin
7	331083	2	FELT, anchor pin
8	331084	2	RETAINER, anchor pin felt
9	331085	2	WASHER, anchor pin
10	331086	2	RETAINER, anchor pin
11	331082	2	ADJUSTMENT, anchor pin and shoe
12	331102	4	NUT, shoe guide pin
13	331095	4	LOCK WASHER, shoe guide pin
14	331092	2	WASHER, shoe guide pin cup
15	331090	2	GUIDE PIN, shoe - short
16	331077	2	STUD, adjusting cam
17	331106	2	SPRING, adjusting cam
18	331078	2	CAM, adjusting
19	331089	2	GUIDE PIN, shoe - long
20	331091	2	CUP WASHER, shoe guide pin
21	331093	2	SPRING, shoe guide pin
22	331094	2	CAPSCREW
23	331096	2	LOCK WASHER
24	331080	2	LINK, connecting
25	HCF-2732	1	SPRING, shoe return
26	HCF-2787	2	ANCHOR, spring

WHEEL BRAKE CYLINDER

27	HCF-2924	1	WHEEL CYLINDER GROUP (includes Ref. Nos. 28 to 37 inclusive)
28	333156	1	CASTING
29	333022	1	SPRING, return
30	333023	2	CUP
31	333021	2	PISTON
32	333024	2	BOOT
33	PGF-10896	1	GASKET
34	PGF-12248	1	GASKET
35	PGF-14186	1	BOLT, fitting
36	333045	1	FITTING
37	333150	1	SCREW, cylinder bleeder



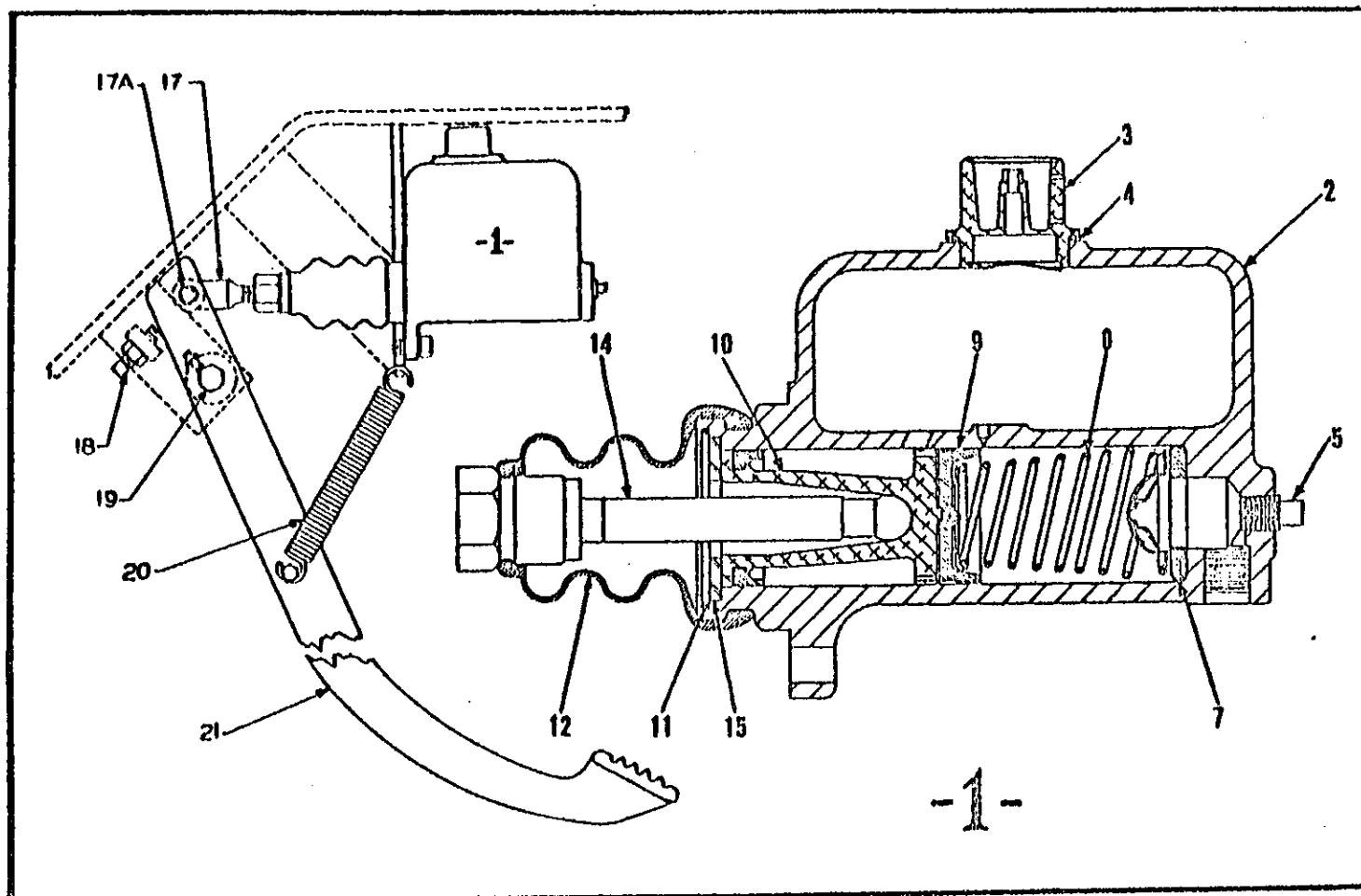
FOOT BRAKE MECHANISM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9485	1	MASTER CYLINDER GROUP (includes Ref. Nos. 2 to 16 inclusive)
2	333131	1	TANK, supply
3	333151	1	PLUG, filler
4	333141	1	GASKET, filler plug
5	333101	1	GASKET, head
6	333111	1	HEAD
7	333152	1	CHECK VALVE GROUP
8	333099	1	SPRING, return
9	333072	1	CUP
10	333106	1	PISTON GROUP
11	333107	1	WIRE, piston stop
12	333084	1	BOOT
13	333032	1	STRAP, boot - small
14	333082	1	LINK, piston
15	333108	1	WASHER, piston stop
16	333085	1	STRAP, boot - large
17	HCF-2206	1	YOKE
17A	783005	1	PIN
18	755055	1	SET SCREW, cup point
19	HCF-2824	1	BOLT, pivot
20	PGF-268	1	SPRING
21	HC-285	1	PEDAL

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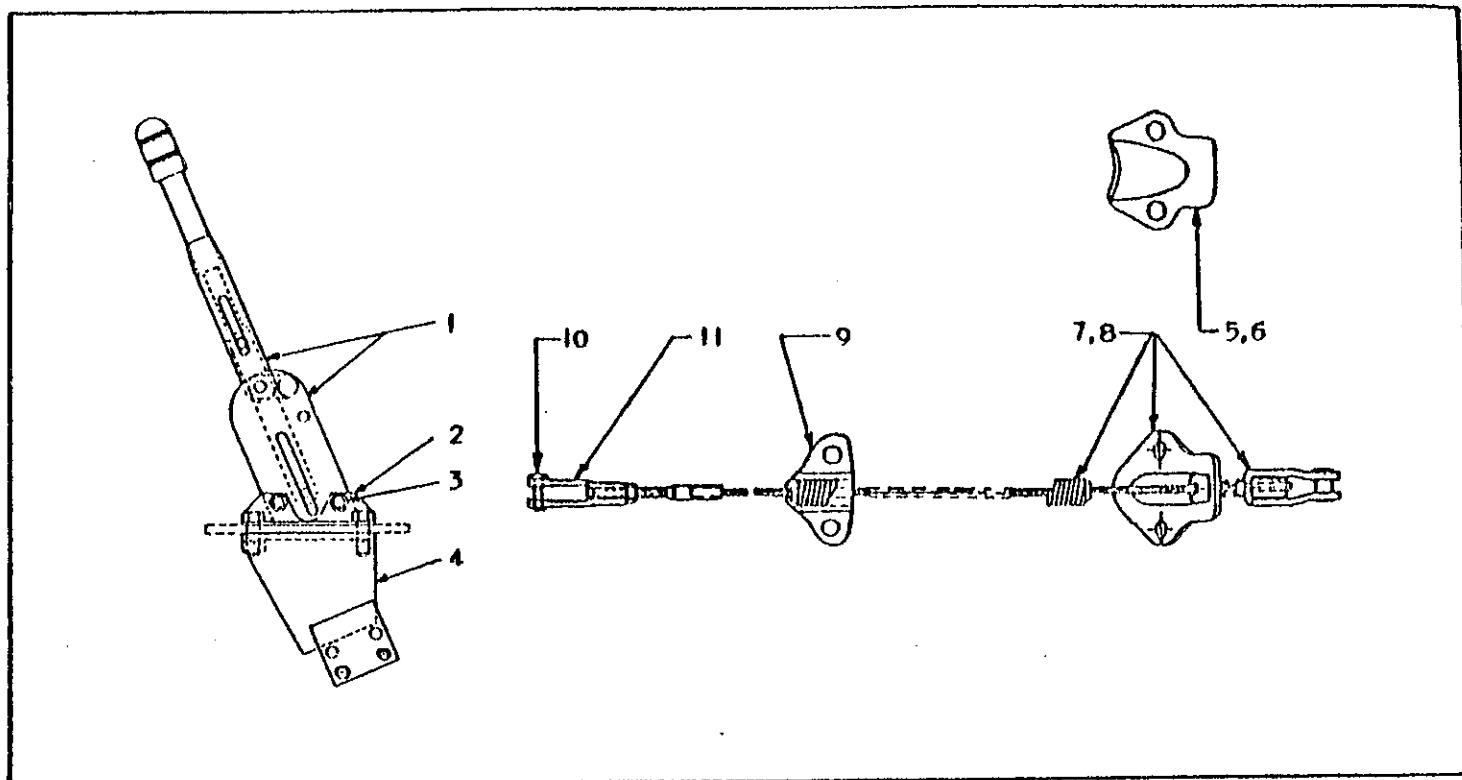
FOOT BRAKE MECHANISM AND MASTER CYLINDER (OUTLET ON SIDE)
(2nd Type)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-8212	1	MASTER CYLINDER (includes Ref. Nos. 2 to 15 inclusive)
2	333177	1	TANK, supply
3	333176	1	PLUG, filler
4	333137	1	GASKET, filler plug
5	810000	1	PLUG, pipe
7	333180	1	CHECK VALVE GROUP
8	333179	1	SPRING, return
9	333036	1	CUP
10	333062	1	PISTON GROUP
11	333058	1	WIRE, piston stop
12	333059	1	BOOT
14	333178	1	LINK, piston
15	333057	1	WASHER, piston stop
17	HCF-2206	1	YOKE
17A	783005	1	PIN
18	755055	1	SETSCREW, cup point
19	HCF-2824	1	BOLT, pivot
20	PGF-268	1	SPRING
21	HCF-10086	1	PEDAL

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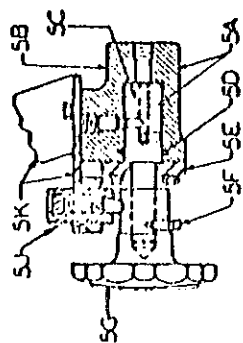
HAND BRAKE MECHANISM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2463	1	HAND BRAKE, complete
2	HCF-2462	2	SUPPORT
3	HCF-2469	2	SPACER
4	HCF-2521	1	BRACKET, cable mounting
5	ASF-6009	1	CAP, bracket
6	ASF-6008	1	SEAL, bracket
7	HCF-2978	1	CABLE AND CONDUIT GROUP (single speed transfer case)
8	HCF-2143	1	CABLE AND CONDUIT GROUP (two speed transfer case)
9	PGF-8979	1	BRACKET, conduit
10	HCF-9673	1	PIN
11	782003	1	YOKE

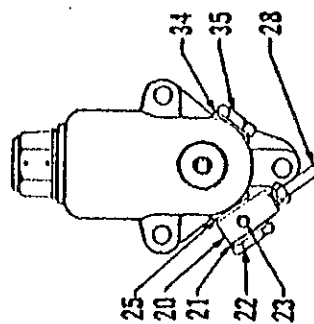
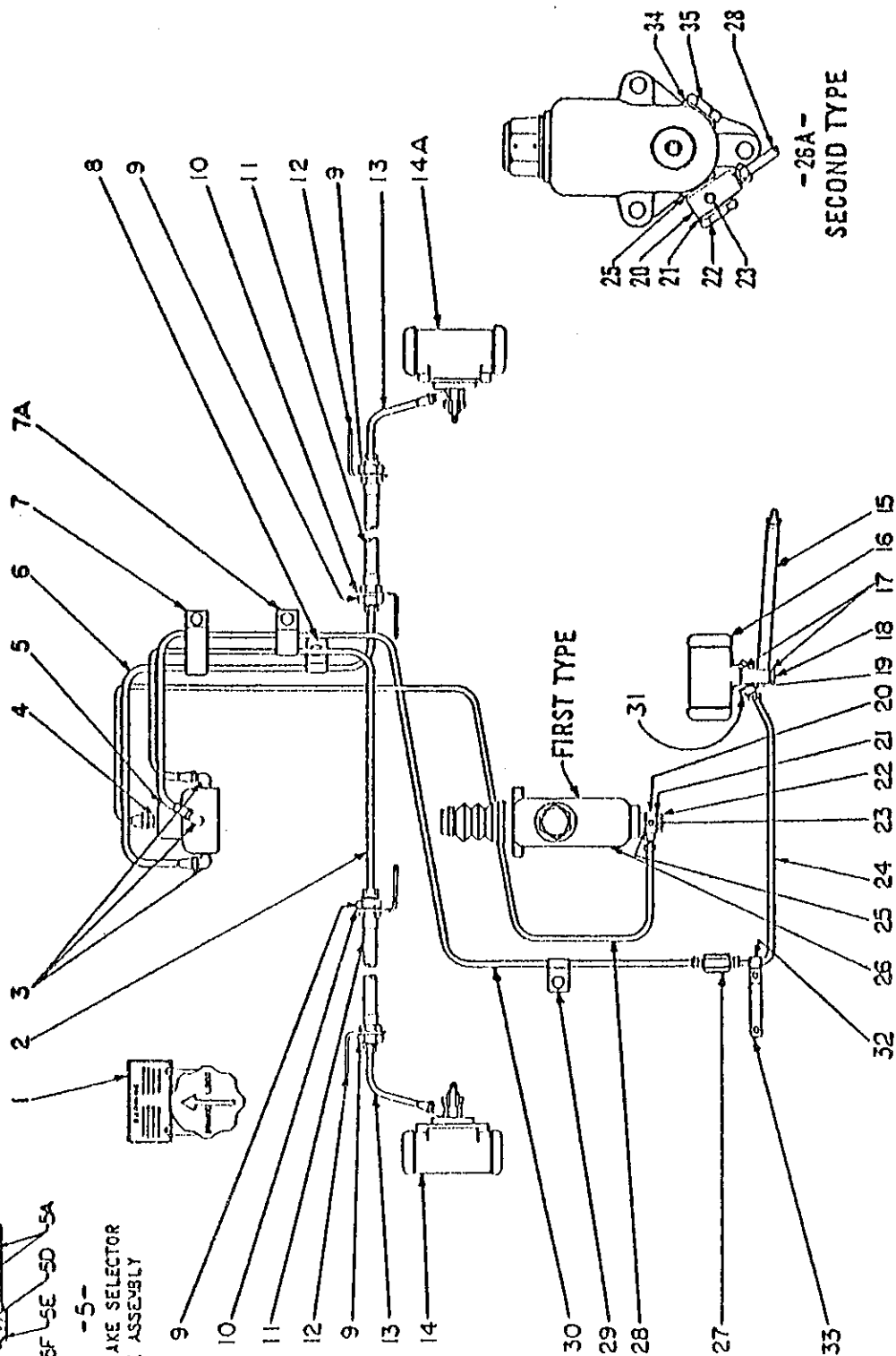
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-5-
WHEEL BRAKE SELECTOR
VALVE ASSEMBLY



-28A-
SECOND TYPE

(For Part Numbers,
see next page)

HYDRAULIC BRAKE SYSTEM DIAGRAM
(2-Wheel Drive with Single Speed Transfer Case)
(Acts on Front Wheels and on Transfer Case Propeller Shaft)

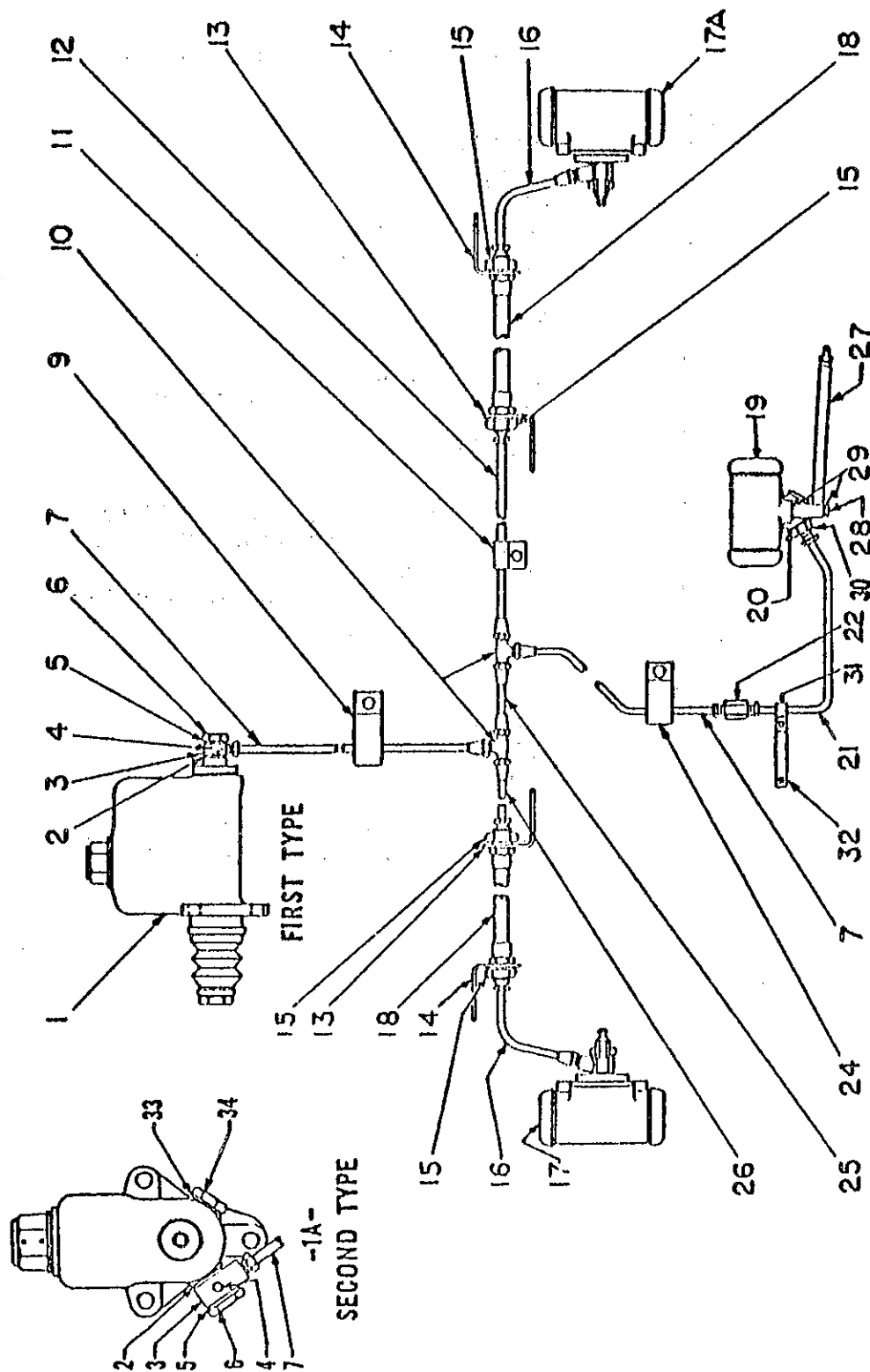
HYDRAULIC BRAKE SYSTEM
(2-WHEEL DRIVE WITH SINGLE SPEED TRANSFER CASE)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2791	1	PLATE, selector valve warning
2	HCF-3061	1	TUBE, with armor
3	835003	3	ELBOW
4	840003	1	CONNECTOR
5	HCU-461	1	SELECTOR VALVE GROUP (includes Ref. Nos. 3, 4, and 5A to 5K inclusive)
5A	HCP-244	1	BODY WITH VALVE (includes Ref. Nos. 5B and 5C)
5B		1	* BODY, valve
5C		1	* PLUG, valve
5D	PGF-9648-26	1	"O" RING
5E	HCF-2765	1	CAP
5F	754033	1	SETSCREW, hollow head (dog point)
5G	HC-243	1	KNOB, selector
5J	HCF-8030-10	1	SPRING
5K	HCF-9668	1	BRACKET
6	HCF-3062	1	TUBE, with armor
7	HCF-2539	1	CLIP
7A	HCF-3080	1	CLIP
8	PGF-11604	1	CLIP
9	726007	4	NUT, jam
10		2	BRACKET, mainframe (welds on)
11	HCF-2784	2	HOSE, with armor
12	HCF-2781	2	BRACKET
13	HCF-2786	2	TUBE
14			LEFT WHEEL BRAKE CYLINDER GROUP
14A			RIGHT WHEEL BRAKE CYLINDER GROUP
15			EXTENSION, bleeder valve
16			PROPELLER SHAFT BRAKE CYLINDER GROUP
17			WASHER
18			BOLT, bleeder valve extension
19	ASF-5451	1	WASHER
20	HCF-2512	1	FITTING
21	PGF-12248	1	GASKET
22	PGF-14186	1	BOLT, fitting
23	810000	1	PLUG, pipe
24	HCF-6126	1	TUBE
25	PGF-10896	1	GASKET
26			MASTER CYLINDER GROUP - 1st type
26A			MASTER CYLINDER GROUP - 2nd type
27	847003	1	UNION
28	HCF-3063	1	TUBE
29	PGF-2897	1	CLIP
30	HCF-3064	1	TUBE, with armor
31	HCF-6134	1	CONNECTOR
32	HCF-2527	1	CLIP
33	HCF-6249	1	EXTENSION, CLIP
34	HCF-8235	1	GASKET
35	HCF-8234	1	PLUG

(see
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Note: * Indicates parts not sold separately.. Order Ref. 5A, HCP-244 body with valve from your nearest BLH Austin-Western Distributor.

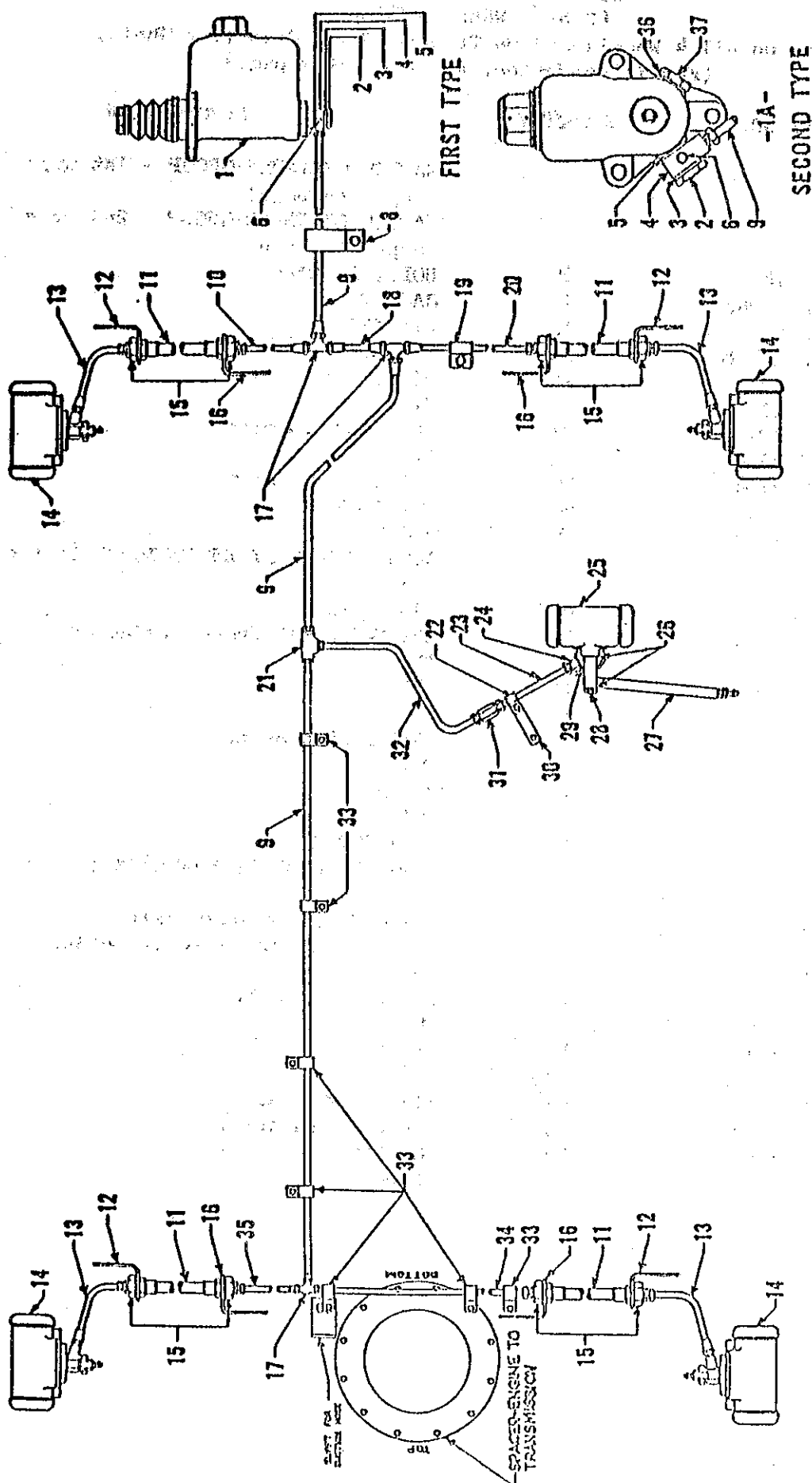


(For Part Numbers,
see next page)

HYDRAULIC BRAKE SYSTEM DIAGRAM
(4-Wheel Drive with either Single or Two Speed Transfer Case)
(Acts on Front Wheels and on Transfer Case Propeller Shaft)

HYDRAULIC BRAKE SYSTEM
(4-WHEEL DRIVE WITH SINGLE OR TWO SPEED TRANSFER CASE)
 (For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			MASTER CYLINDER GROUP - 1st type (see separate page)
1A			MASTER CYLINDER GROUP - 2nd type (see separate page)
2	PGF-10896	1	GASKET
3	HCF-2512	1	FITTING
4	810000	1	PLUG, pipe
5	PGF-12248	1	GASKET
6	PGF-14186	1	BOLT, fitting
7	HCF-3218	2	TUBE, with armor
9	HCF-2778	1	CLIP
10	832002	2	TEE
11	PGF-2897	1	CLIP
12	HCF-3217	1	TUBE, with armor
13		2	BRACKET, mainframe (welds on)
14	HCF-2781	2	BRACKET
15	726007	4	NUT, jam
16	HCF-2786	2	TUBE
17			LEFT WHEEL BRAKE CYLINDER GROUP
17A			RIGHT WHEEL BRAKE CYLINDER GROUP } (see separate page)
18	HCF-2784	2	HOSE, with armor
19			PROPELLER SHAFT BRAKE CYLINDER GROUP (see separate page)
20	ASF-5451	1	WASHER
21	HCF-6126	1	TUBE
22	847003	1	UNION
24	HCF-2290	1	CLIP
25	HCF-3215	1	TUBE
26	HCF-3216	1	TUBE
27			EXTENSION, bleeder valve
28			BOLT, bleeder valve extension } (see separate page)
29			WASHER
30	HCF-6134	1	CONNECTOR
31	HCF-2527	1	CLIP
32	HCF-6249	1	EXTENSION, clip
33	HCF-8235	1	GASKET
34	HCF-8234	1	PLUG



(For Part Numbers,
see next page)

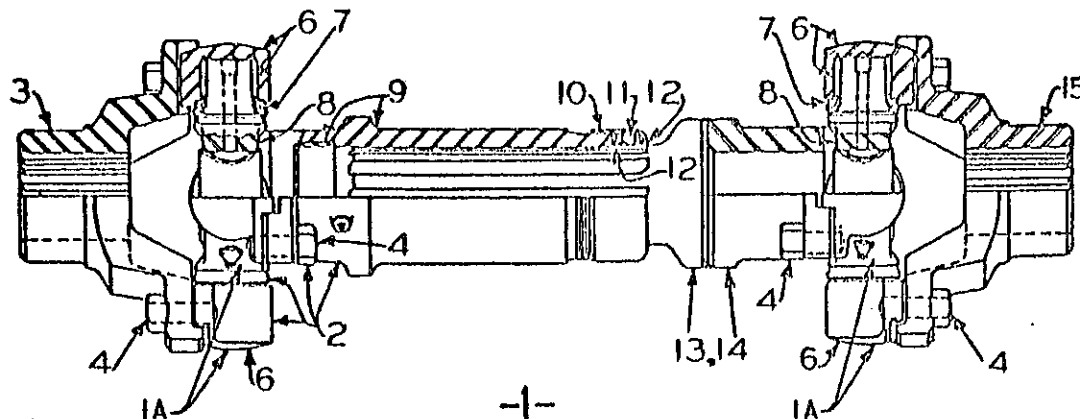
HYDRAULIC BRAKE SYSTEM (2 or 4-WHEEL DRIVE)

(Acts on All 4 Wheels and on Transfer Case Propeller Shaft)

HYDRAULIC BRAKE SYSTEM
(2 or 4-WHEEL DRIVE)
(Acts on All 4 Wheels and on Transfer Case Propeller Shaft)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			MASTER CYLINDER GROUP - 1st type (see separate page)
1A			MASTER CYLINDER GROUP - 2nd type (see separate page)
2	PGF-14186	1	BOLT, fitting
3	PGF-12248	1	GASKET
4	HCF-2512	1	FITTING
5	PGF-10896	1	GASKET
6	810000	1	PLUG, pipe
8	HCF-2778	1	CLIP
9	HCF-3218	3	TUBE, with armor
10	HCF-3216	1	TUBE
11	HCF-2784	4	HOSE, with armor
12	HCF-2781	4	BRACKET
13	HCF-2786	4	TUBE
14			WHEEL BRAKE CYLINDER GROUP (see separate page)
15	726007	8	NUT, jam
16		4	BRACKET, mainframe (welds on)
17	832002	3	TEE
18	HCF-3215	1	TUBE
19	PGF-2897	1	CLIP
20	HCF-3217	1	TUBE, with armor
21	844003	1	TEE
22	HCF-2527	1	CLIP
23	HCF-6126	1	TUBE
24	HCF-6134	1	CONNECTOR
25			PROPELLER SHAFT BRAKE CYLINDER GROUP
26			WASHER
27			EXTENSION, bleeder valve
28			BOLT, bleeder valve extension
29	ASF-5451	1	WASHER
30	HCF-6249	1	EXTENSION, clip
31	847003	1	UNION
32	HCF-6147	1	TUBE
33	HCF-2788	7	CLIP
34	HCF-3062	1	TUBE, with armor
35	HCF-6148	1	TUBE, with armor
36	HCF-8235	1	GASKET
37	HCF-8234	1	PLUG

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Front Axle End

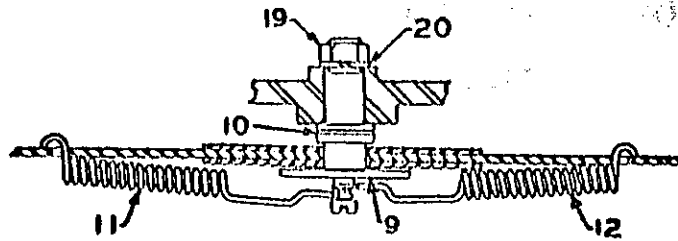
FRONT AXLE PROPELLER SHAFT
(Single Speed Transfer Case)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2830	1	PROPELLER SHAFT, complete
1A	PGF-8807-57	2	SPIDER AND BEARING GROUP (includes Ref. Nos. 6,7 and 8 assembled)
2	465130	1	JOINT GROUP (includes Ref. Nos. 4 to 12 inclusive)
3	PGF-8537-58	1	YOKE, fitting
4	PGF-9717-55	16	CAPSCREW
6		8	BEARING GROUP (not sold separately. Order Ref. No. 1A)
7	465149	8	WASHER, cork
8		2	SPIDER GROUP (not sold separately. Order Ref. No. 1A)
9	465118	1	SLIP YOKE WITH DUST CUP
10	465013	1	RETAINER, felt
11	465017	1	WASHER, felt
12	465018	2	WASHER, felt retainer
13	465154	1	PROPELLER WELD YOKE AND JOINT GROUP (includes Ref. Nos. 4,6,7,8 and 14)
14	465155	1	PROPELLER WELD YOKE GROUP
15	HCF-2833-56	1	YOKE, fitting

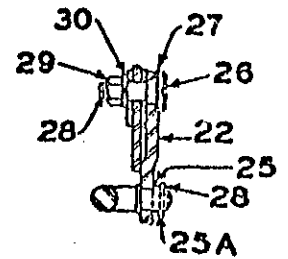
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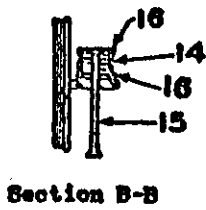
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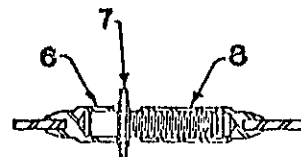
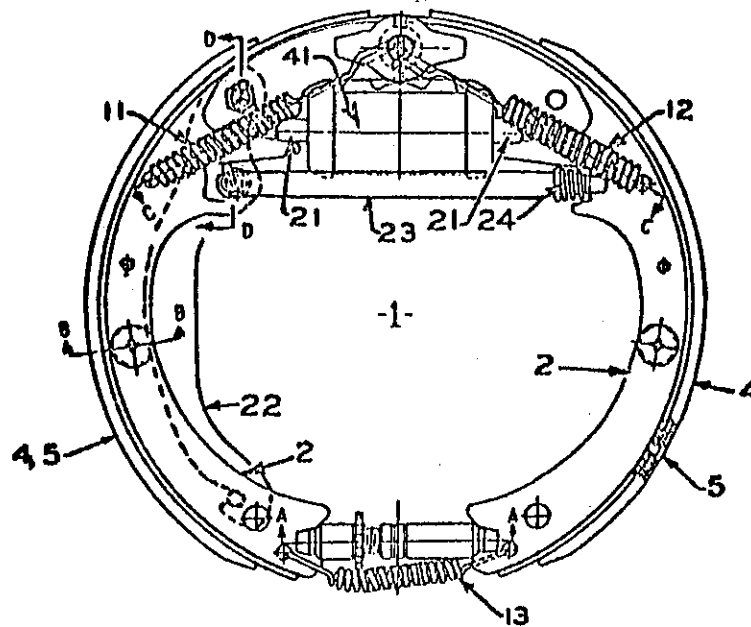
Section C-C



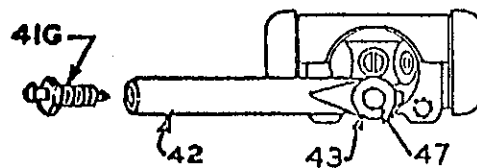
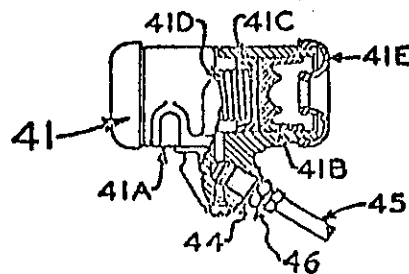
Section D-D



Section B-B



Section A-A



PROPELLER SHAFT BRAKE
(Single Speed Transfer Case)

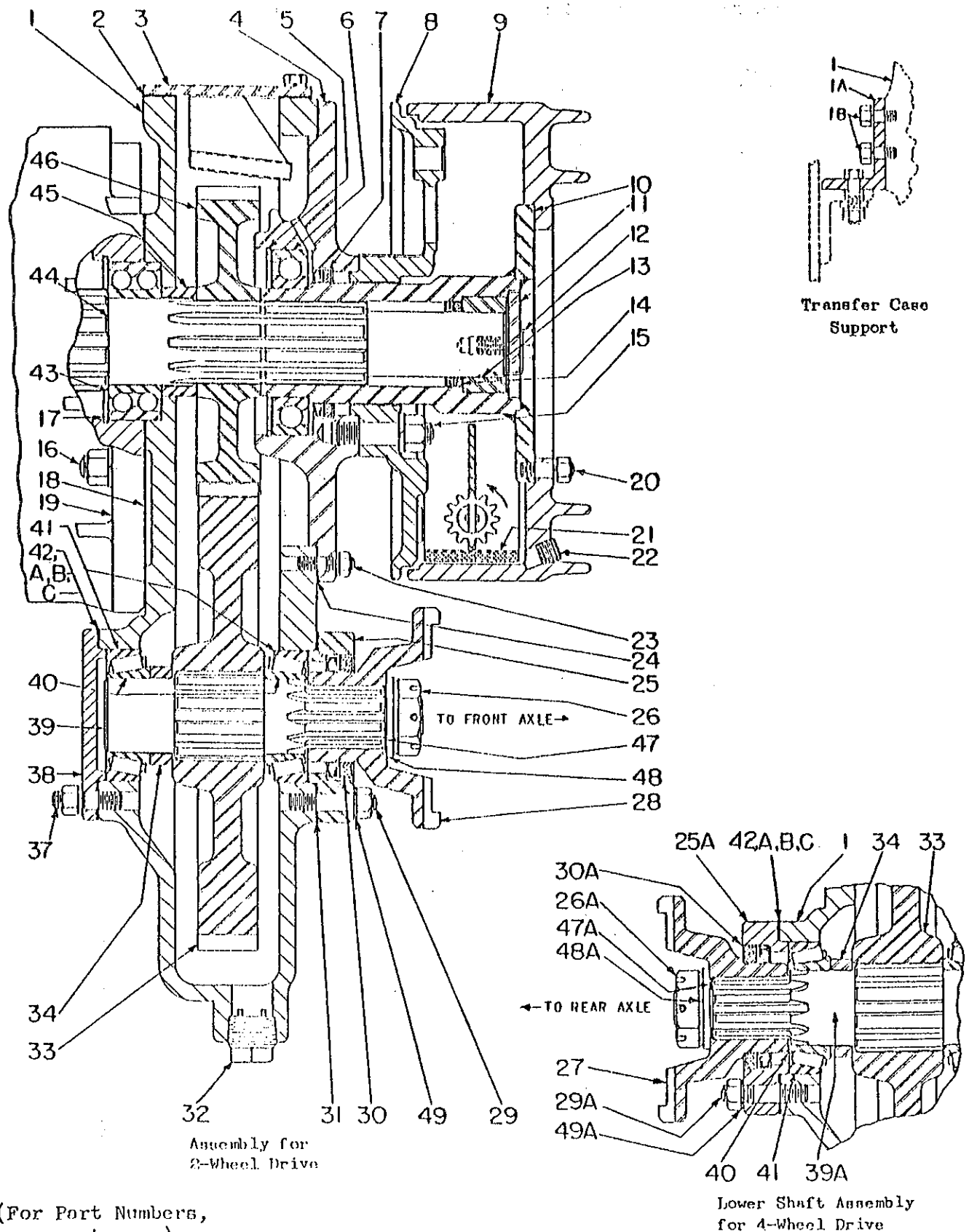
(For Part Numbers,
see next page)

PROPELLER SHAFT BRAKE
(Single Speed Transfer Case)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-17362	1	BRAKE GROUP (includes Ref. Nos. 2 and 6 to 20 inclusive)
2	PGF-17362-55	1	SHOE AND LINING SET (2 shoes lined. Includes Ref. No. 4)
4	PGF-17362-56	1	LINING SET (2 linings with rivets. Includes Ref. No. 5)
5	331008	20	RIVET, tubular
6	331065	1	SOCKET, adjusting screw
7	331033	1	SCREW, adjusting
8	331061	1	NUT, adjusting screw pivot
9	331035	1	GUIDE, shoe, anchor pin
10	331053	1	PIN, anchor
11	331038	1	SPRING, anchor to shoe
12	331039	1	SPRING, anchor to shoe
13	331034	1	SPRING, adjusting screw
14	331020	2	SPRING, shoe hold down
15	331024	2	PIN, spring
16	331021	4	CUP, spring
19	331062	1	NUT, anchor pin
20	331027	1	WASHER, lock, anchor pin
21	PGF-7359	2	LINK, connecting
22	PGF-10899	1	LEVER
23	PGF-7454	1	STRUT
24	PGF-10902	1	SPRING, strut
25	PGF-10903	1	SPRING, strut to lever
25A	PGF-10901	1	WASHER
26	PGF-10904	1	PIN, shoe and lever
27	PGF-10905	1	WASHER, lever pin
28	166009	2	PIN, cotter
29	722003	1	NUT, lever pin
30	778011	1	WASHER, lock, lever pin

PROPELLER SHAFT BRAKE CYLINDER

41	PGF-11503	1	DRUM CYLINDER GROUP (includes Ref. Nos. 41A to 41G inclusive)
41A	333132	1	CASTING
41B	333014	2	PISTON
41C	333015	2	CUP
41D	333016	1	SPRING
41E	333117	2	BOOT
41G	333146	1	SCREW, cylinder bleeder
42	HCF-2797	1	EXTENSION, bleeder valve
43	PGF-4442	2	WASHER, bleeder valve extension
44			WASHER
45			TUBE
46			CONNECTER
47	HCF-2796	1	BOLT, bleeder valve extension



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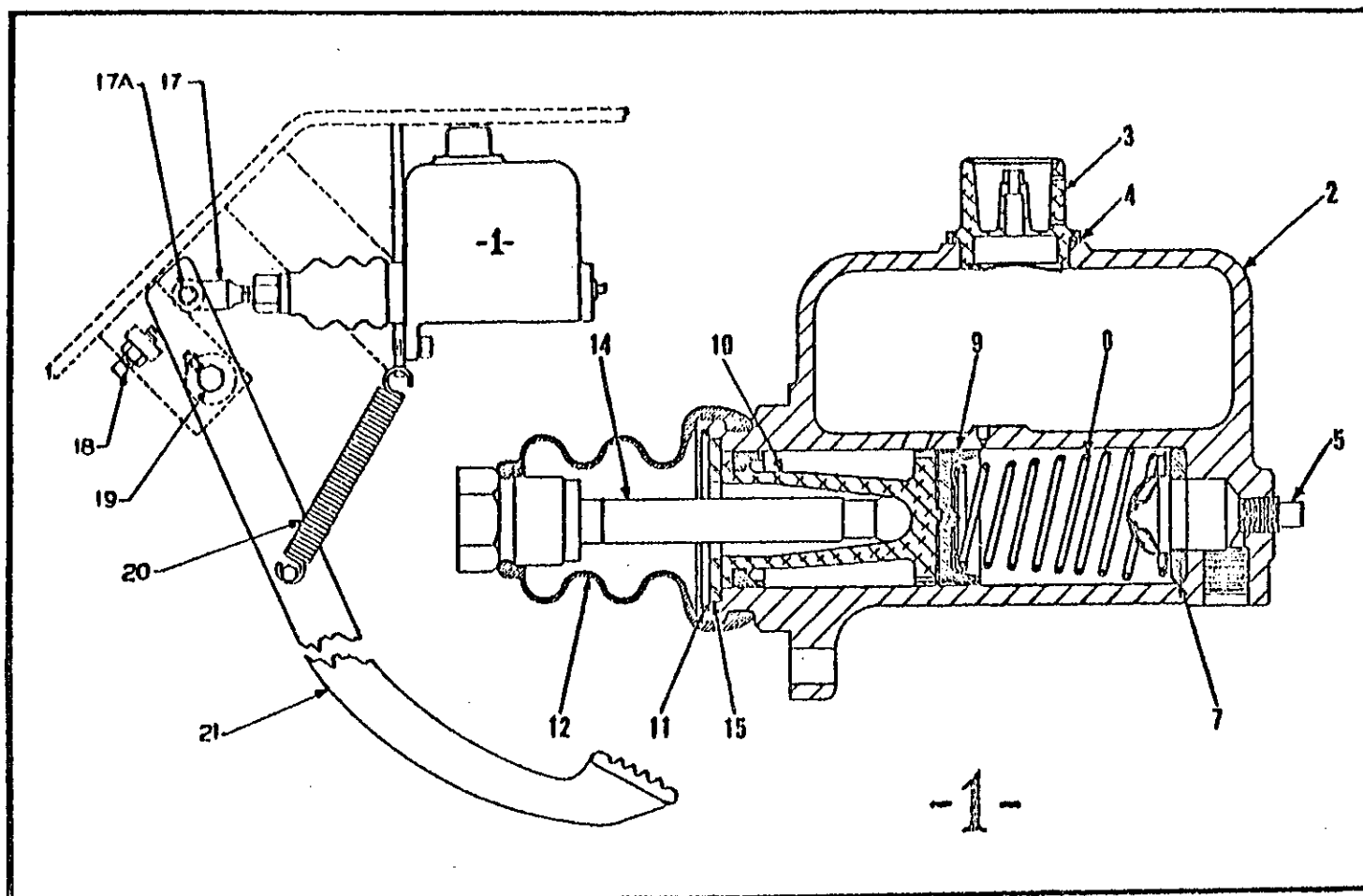
TRANSFER CASE - SINGLE SPEED (FOR 3 SPEED TRANSMISSION COMBINATION)
(2-Wheel or 4-Wheel Drive)

TRANSFER CASE - SINGLE SPEED
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0		1	TRANSFER CASE GROUP
1	HC-381	1	HOUSING, gear
1A	HCF-2857	2	SUPPORT
1B	741787	8	BOLT
2	HCF-2691	1	GASKET, cover
3	HCF-2862	1	COVER, gear housing
4	HC-240	1	CAP, bearing
5	PGF-12756	1	RING, snap
6	311211	1	BEARING, ball
7	194118	1	SEAL, oil
8	HC-245	1	PLATE, backing
9	PG-944	1	DRUM, brake
10	HCF-2865	1	FLANGE, brake
11	HCF-2860	1	WASHER
12	PGF-13292	1	KEEPER, main shaft
13	HCF-2867	1	SPACER
14	194120	1	SEAL, oil
15	HCF-2861	7	STUD
16	PGF-8498	9	STUD, case
17			SNAP RING, main shaft bearing
18			GASKET, transmission case
19			CASE, transmission
20	PGF-4450	6	STUD
21			PROPELLER SHAFT BRAKE GROUP (see sep. page)
22	812002	4	PLUG, pipe, countersunk head
23	HCF-2468	8	STUD
24	PGF-12884	1	GASKET
25	PG-2217	1	CAP, bearing
26	PGF-15388	1	NUT, slotted
28			YOKE, fitting (see separate page)
29	PGF-2840	4	STUD
30	PGF-6024	1	SEAL, oil
31	PGF-13310	1	GASKET
32	PGF-9014	1	PLUG, drain
33	PGF-13355	1	GEAR (56 teeth)
34	HCF-1896	1	SPACER
35	810005	1	PLUG, oil level and filler (not shown)
37	BTF-890	4	STUD
38	HC-224	1	CAP, bearing
39	HCF-2836	1	SHAFT, lower
40	312505	2	CONE AND ROLLERS, bearing
41	313190	2	CUP, bearing
42	HCF-2874	2	GASKET
42A	HCF-2875	As req'd	SHIM (.005)
42B	HCF-2876	As req'd	SHIM (.007)
42C	HCF-2877	As req'd	SHIM (.020)
43			BALL BEARING, main shaft
44			MAIN SHAFT, transmission
45			SPACER
46	HCF-1875	1	PINION (36 teeth)
47	PGF-4865	2	GASKET
48	PGF-4864	1	WASHER
49	766011	4	WASHER, lock, external teeth

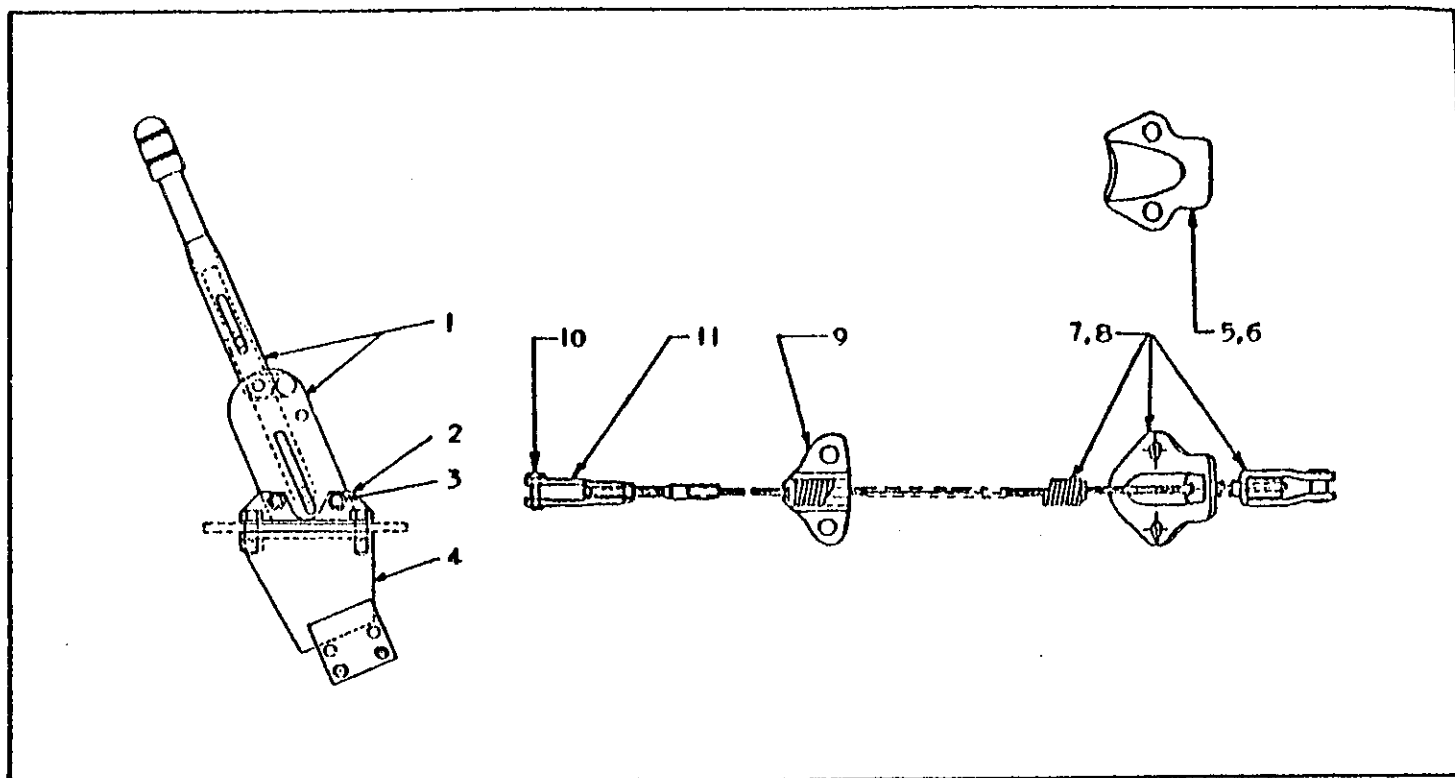
Parts Required for Transfer Case Lower Shaft Assembly (4-Wheel Drive)

25A	PG-2217	1	CAP, bearing
26A	PGF-15388	1	NUT, slotted
27			YOKE, fitting (see separate page)
29A	PGF-2840	4	STUD
30A	PGF-6024	1	SEAL, oil
39A	HCF-2845	1	SHAFT, lower
47A	PGF-4865	2	GASKET
48A	PGF-4864	1	WASHER
49A	766011	4	WASHER, lock, external teeth



FOOT BRAKE MECHANISM AND MASTER CYLINDER (OUTLET ON SIDE)
(2nd Type)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-8212	1	MASTER CYLINDER (includes Ref. Nos. 2 to 15 inclusive)
2	333177	1	TANK, supply
3	333176	1	PLUG, filler
4	333137	1	GASKET, filler plug
5	810000	1	PLUG, pipe
7	333180	1	CHECK VALVE GROUP
8	333179	1	SPRING, return
9	333036	1	CUP
10	333062	1	PISTON GROUP
11	333058	1	WIRE, piston stop
12	333059	1	BOOT
14	333178	1	LINK, piston
15	333057	1	WASHER, piston stop
17	HCF-2206	1	YOKE
17A	783005	1	PIN
18	755055	1	SETSCREW, cup point
19	HCF-2824	1	BOLT, pivot
20	PGF-268	1	SPRING
21	HCF-10086	1	PEDAL



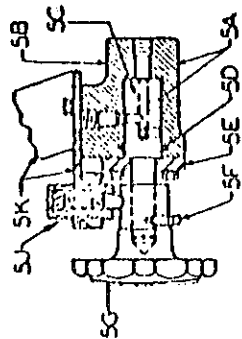
HAND BRAKE MECHANISM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2463	1	HAND BRAKE, complete
2	HCF-2462	2	SUPPORT
3	HCF-2469	2	SPACER
4	HCF-2521	1	BRACKET, cable mounting
5	ASF-6009	1	CAP, bracket
6	ASF-6008	1	SEAL, bracket
7	HCF-2978	1	CABLE AND CONDUIT GROUP (single speed transfer case)
8	HCF-2143	1	CABLE AND CONDUIT GROUP (two speed transfer case)
9	PGF-8979	1	BRACKET, conduit
10	HCF-9673	1	PIN
11	782003	1	YOKE

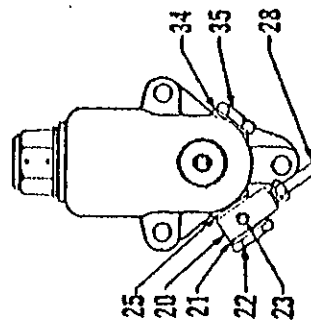
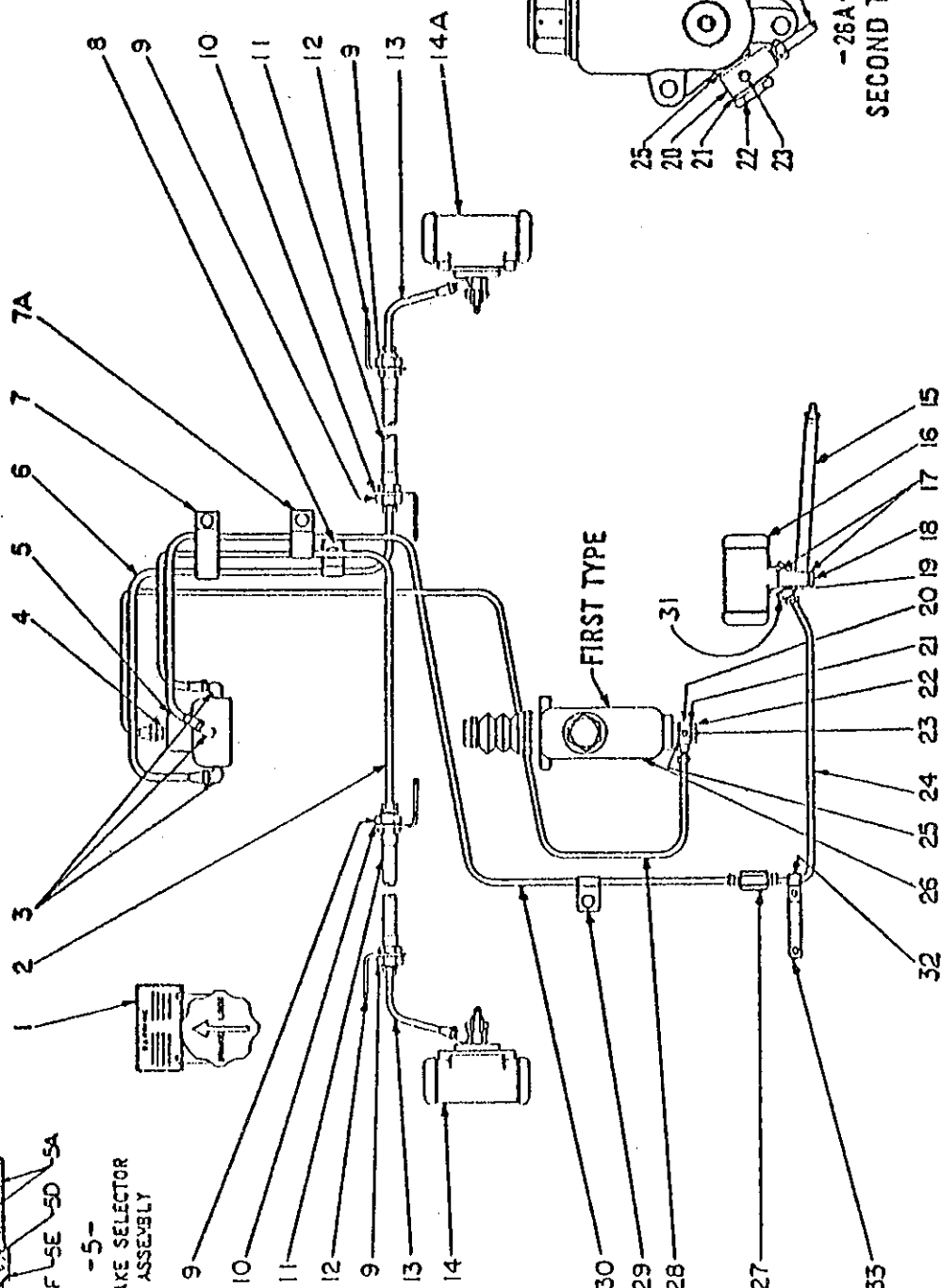
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-5-
WHEEL BRAKE SELECTOR
VALVE ASSEMBLY



-26A-
SECOND TYPE

(For Part Numbers,
see next page)

HYDRAULIC BRAKE SYSTEM DIAGRAM
(2-Wheel Drive with Single Speed Transfer Case)
(Acts on Front Wheels and on Transfer Case Propeller Shaft)

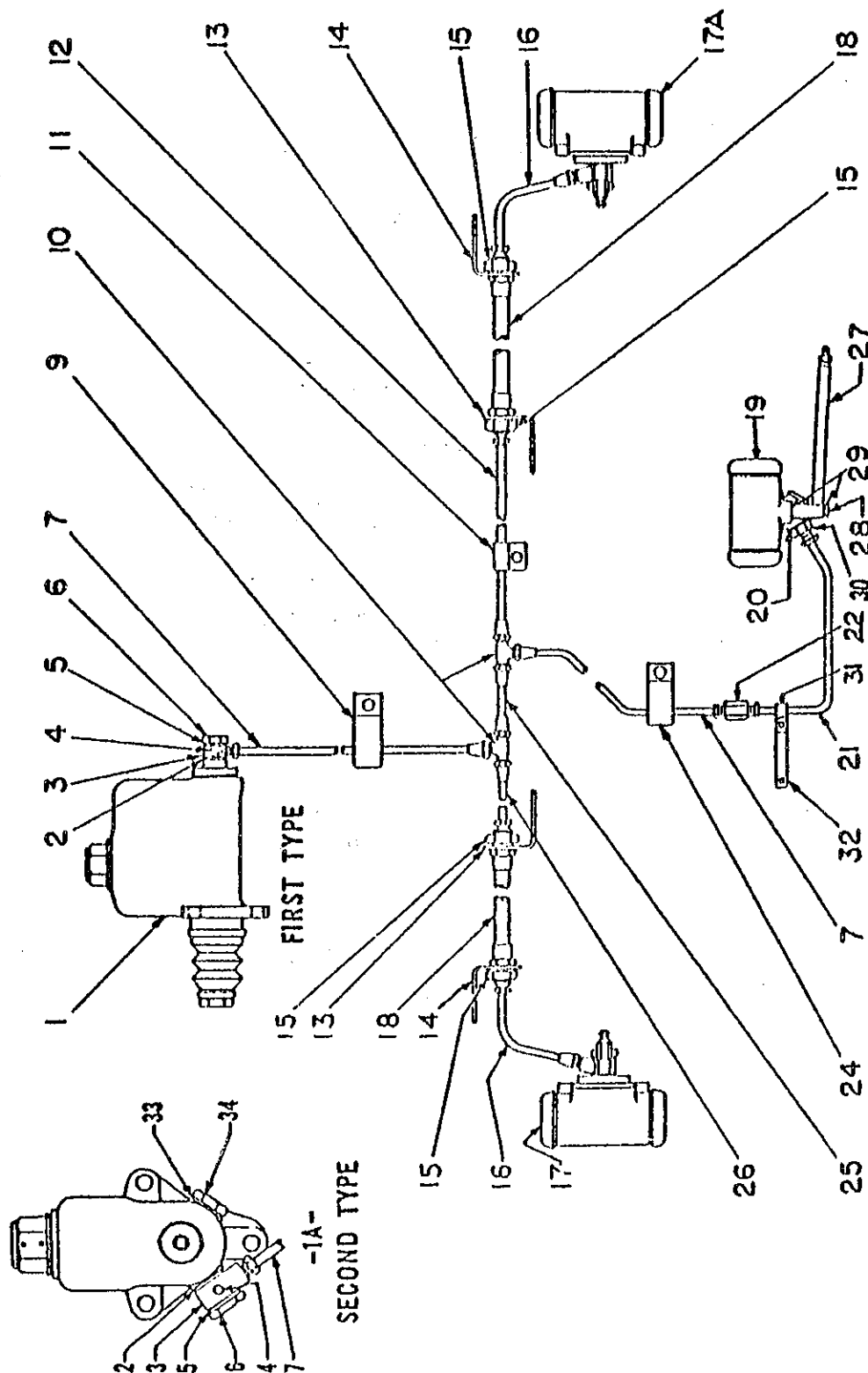
HYDRAULIC BRAKE SYSTEM
(2-WHEEL DRIVE WITH SINGLE SPEED TRANSFER CASE)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2791	1	PLATE, selector valve warning
2	HCF-3061	1	TUBE, with armor
3	835003	3	ELBOW
4	840003	1	CONNECTOR
5	HCU-461	1	SELECTOR VALVE GROUP (includes Ref. Nos. 3, 4, and 5A to 5K inclusive)
5A	HCP-244	1	BODY WITH VALVE (includes Ref. Nos. 5B and 5C)
5B		1	* BODY, valve
5C		1	* PLUG, valve
5D	PGF-9648-26	1	"O" RING
5E	HCF-2765	1	CAP
5F	754033	1	SETSCREW, hollow head (dog point)
5G	HC-243	1	KNOB, selector
5J	HCF-8030-10	1	SPRING
5K	HCF-9668	1	BRACKET
6	HCF-3062	1	TUBE, with armor
7	HCF-2539	1	CLIP
7A	HCF-3080	1	CLIP
8	PGF-11604	1	CLIP
9	726007	4	NUT, jam
10		2	BRACKET, mainframe (welds on)
11	HCF-2784	2	HOSE, with armor
12	HCF-2781	2	BRACKET
13	HCF-2786	2	TUBE
14			LEFT WHEEL BRAKE CYLINDER GROUP
14A			RIGHT WHEEL BRAKE CYLINDER GROUP
15			EXTENSION, bleeder valve
16			PROPELLER SHAFT BRAKE CYLINDER GROUP
17			WASHER
18			BOLT, bleeder valve extension
19	ASF-5451	1	WASHER
20	HCF-2512	1	FITTING
21	PGF-12248	1	GASKET
22	PGF-14186	1	BOLT, fitting
23	810000	1	PLUG, pipe
24	HCF-6126	1	TUBE
25	PGF-10896	1	GASKET
26			MASTER CYLINDER GROUP - 1st type
26A			MASTER CYLINDER GROUP - 2nd type
27	847003	1	UNION
28	HCF-3063	1	TUBE
29	PGF-2897	1	CLIP
30	HCF-3064	1	TUBE, with armor
31	HCF-6134	1	CONNECTOR
32	HCF-2527	1	CLIP
33	HCF-6249	1	EXTENSION, CLIP
34	HCF-8235	1	GASKET
35	HCF-8234	1	PLUG

(see
sepa-
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Note: * Indicates parts not sold separately.. Order Ref. 5A, HCP-244 body with valve from your nearest BLH Austin-Western Distributor.

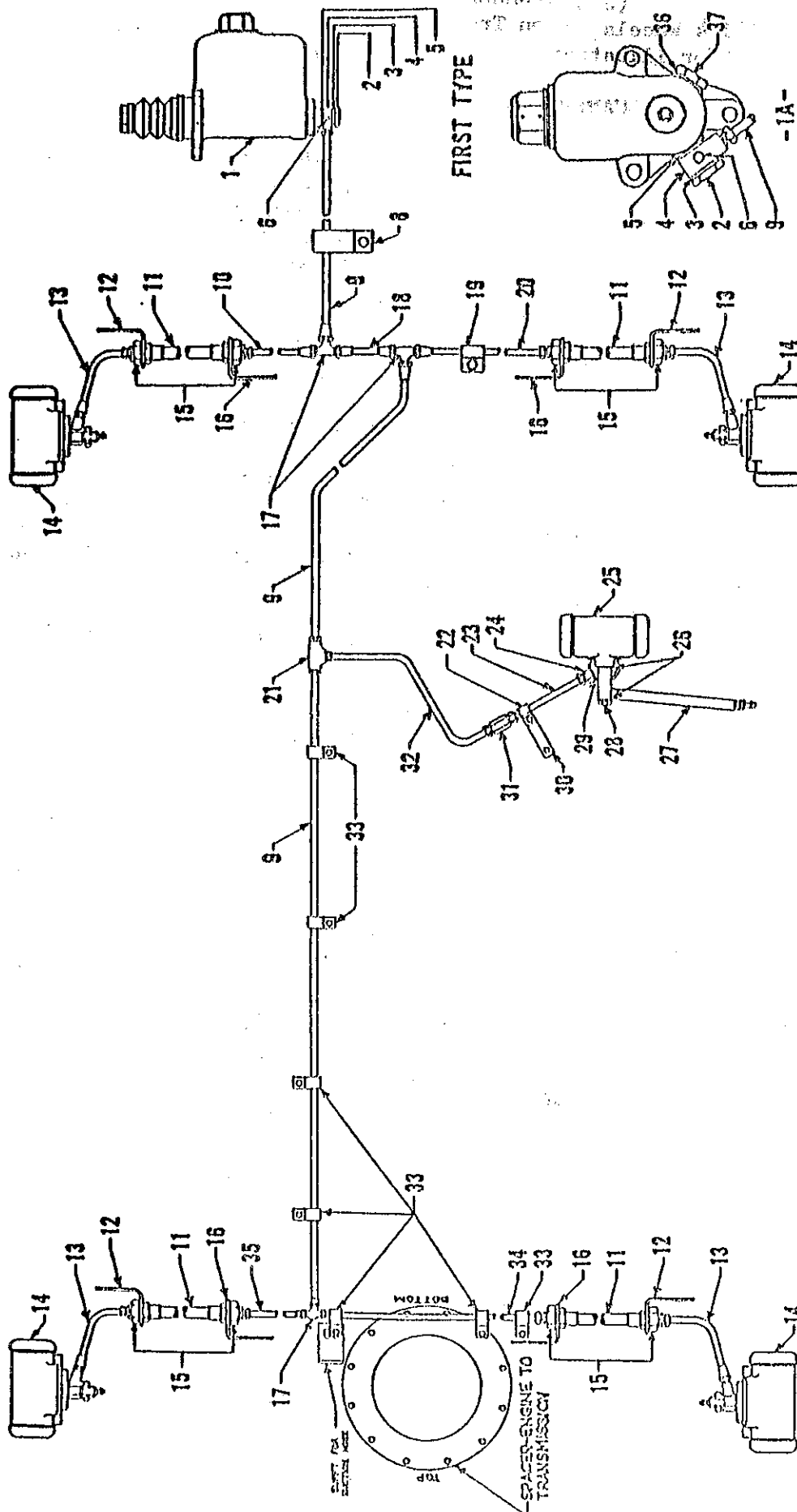


(For Part Numbers, see next page)

HYDRAULIC BRAKE SYSTEM DIAGRAM
(4-Wheel Drive with either Single or Two Speed Transfer Case)
(Acts on Front Wheels and on Transfer Case Propeller Shaft)

HYDRAULIC BRAKE SYSTEM
(4-WHEEL DRIVE WITH SINGLE OR TWO SPEED TRANSFER CASE)
 (For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			MASTER CYLINDER GROUP - 1st type (see separate page)
1A			MASTER CYLINDER GROUP - 2nd type (see separate page)
2	PGF-10896	1	GASKET
3	HCF-2512	1	FITTING
4	810000	1	PLUG, pipe
5	PGF-12248	1	GASKET
6	PGF-14186	1	BOLT, fitting
7	HCF-3218	2	TUBE, with armor
9	HCF-2778	1	CLIP
10	832002	2	TEE
11	PGF-2897	1	CLIP
12	HCF-3217	1	TUBE, with armor
13		2	BRACKET, mainframe (welds on)
14	HCF-2781	2	BRACKET
15	726007	4	NUT, jam
16	HCF-2786	2	TUBE
17			LEFT WHEEL BRAKE CYLINDER GROUP
17A			RIGHT WHEEL BRAKE CYLINDER GROUP } (see separate page)
18	HCF-2784	2	HOSE, with armor
19			PROPELLER SHAFT BRAKE CYLINDER GROUP (see separate page)
20	ASF-5451	1	WASHER
21	HCF-6126	1	TUBE
22	847003	1	UNION
24	HCF-2290	1	CLIP
25	HCF-3215	1	TUBE
26	HCF-3216	1	TUBE
27			EXTENSION, bleeder valve
28			BOLT, bleeder valve extension } (see separate page)
29			WASHER
30	HCF-6134	1	CONNECTOR
31	HCF-2527	1	CLIP
32	HCF-6249	1	EXTENSION, clip
33	HCF-8235	1	GASKET
34	HCF-8234	1	PLUG



(For Part Numbers, see next page)

HYDRAULIC BRAKE SYSTEM
(2 or 4-WHEEL DRIVE)
(Acts on All 4 Wheels and on Transfer Case Propeller Shaft)

HYDRAULIC BRAKE SYSTEM

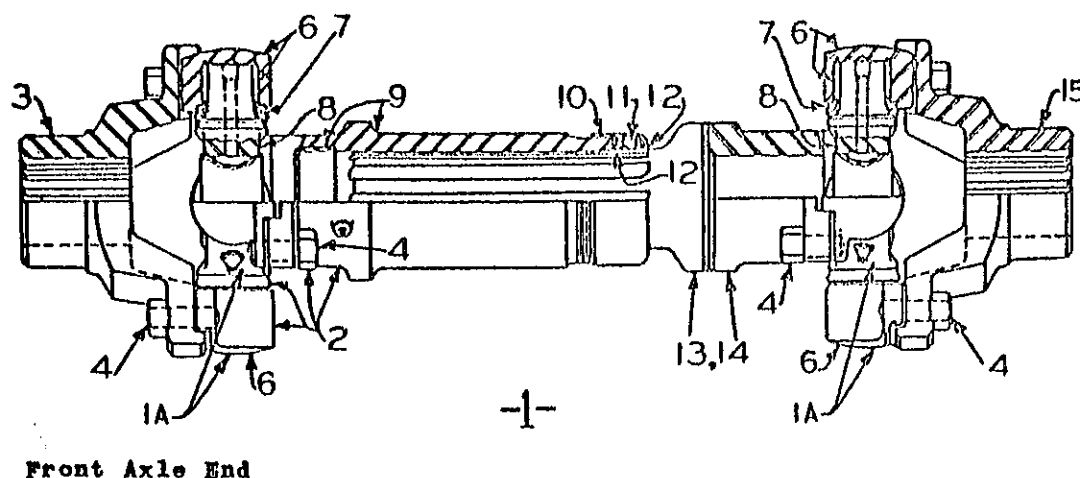
(2 or 4-WHEEL DRIVE)

(Acts on All 4 Wheels and on Transfer Case Propeller Shaft)

(For illustration, see preceding page)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			MASTER CYLINDER GROUP - 1st type (see separate page)
1A			MASTER CYLINDER GROUP - 2nd type (see separate page)
2	PGF-14186	1	BOLT, fitting
3	PGF-12248	1	GASKET
4	HCF-2512	1	FITTING
5	PGF-10896	1	GASKET
6	810000	1	PLUG, pipe
8	HCF-2778	1	CLIP
9	HCF-3218	3	TUBE, with armor
10	HCF-3216	1	TUBE
11	HCF-2784	4	HOSE, with armor
12	HCF-2781	4	BRACKET
13	HCF-2786	4	TUBE
14			WHEEL BRAKE CYLINDER GROUP (see separate page)
15	726007	8	NUT, jam
16		4	BRACKET, mainframe (welds on)
17	832002	3	TEE
18	HCF-3215	1	TUBE
19	PGF-2897	1	CLIP
20	HCF-3217	1	TUBE, with armor
21	844003	1	TEE
22	HCF-2527	1	CLIP
23	HCF-6126	1	TUBE
24	HCF-6134	1	CONNECTOR
25			PROPELLER SHAFT BRAKE CYLINDER GROUP
26			WASHER
27			EXTENSION, bleeder valve
28			BOLT, bleeder valve extension
29	ASF-5451	1	WASHER
30	HCF-6249	1	EXTENSION, clip
31	847003	1	UNION
32	HCF-6147	1	TUBE
33	HCF-2788	7	CLIP
34	HCF-3062	1	TUBE, with armor
35	HCF-6148	1	TUBE, with armor
36	HCF-8235	1	GASKET
37	HCF-8234	1	PLUG

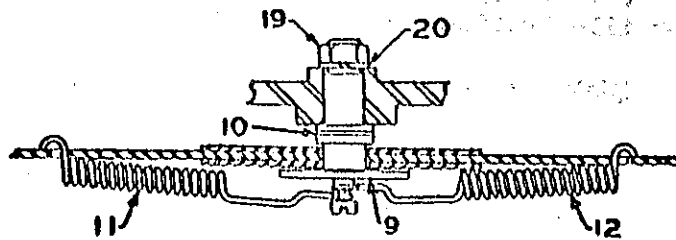
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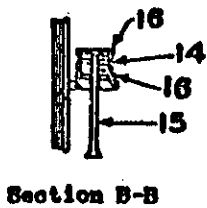
**FRONT AXLE PROPELLER SHAFT
(Single Speed Transfer Case)**

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2830	1	PROPELLER SHAFT, complete
1A	PGF-8807-57	2	SPIDER AND BEARING GROUP (includes Ref. Nos. 6,7 and 8 assembled)
2	465130	1	JOINT GROUP (includes Ref. Nos. 4 to 12 inclusive)
3	PGF-8537-58	1	YOKE, fitting
4	PGF-9717-55	16	CAPSCREW
6		8	BEARING GROUP (not sold separately. Order Ref. No. 1A)
7	465149	8	WASHER, cork
8		2	SPIDER GROUP (not sold separately. Order Ref. No. 1A)
9	465118	1	SLIP YOKE WITH DUST CUP
10	465013	1	RETAINER, felt
11	465017	1	WASHER, felt
12	465018	2	WASHER, felt retainer
13	465154	1	PROPELLER WELD YOKE AND JOINT GROUP (includes Ref. Nos. 4,6,7,8 and 14)
14	465155	1	PROPELLER WELD YOKE GROUP
15	HCF-2833-56	1	YOKE, fitting

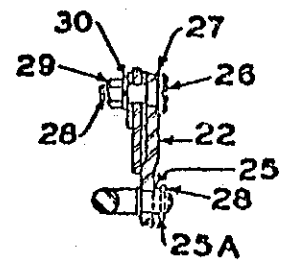
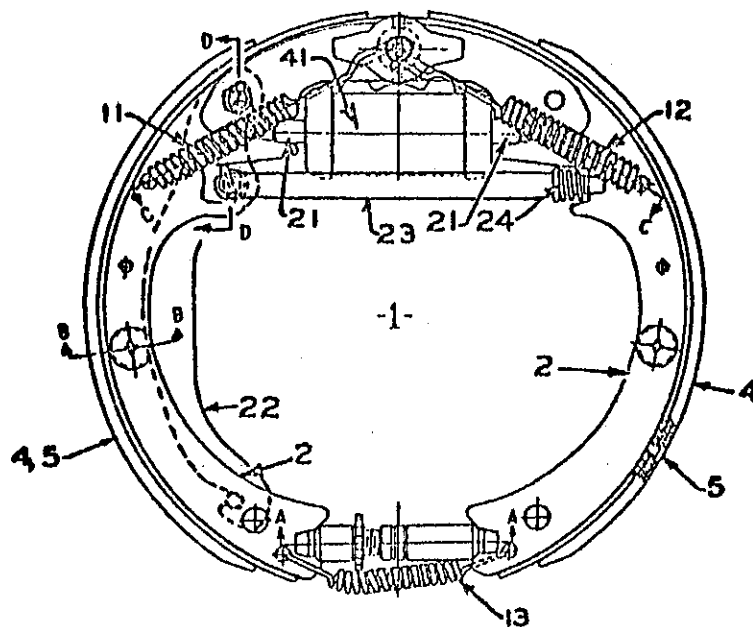




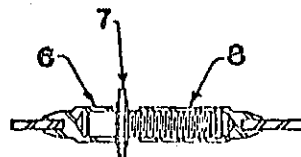
Section C-C



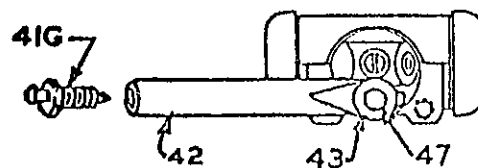
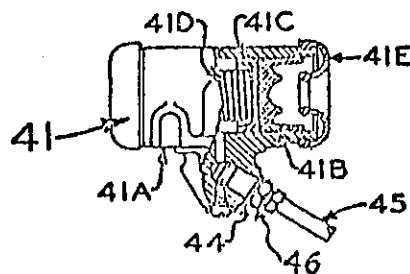
Section B-B



Section D-D



Section A-A



PROPELLER SHAFT BRAKE
(Single Speed Transfer Case)

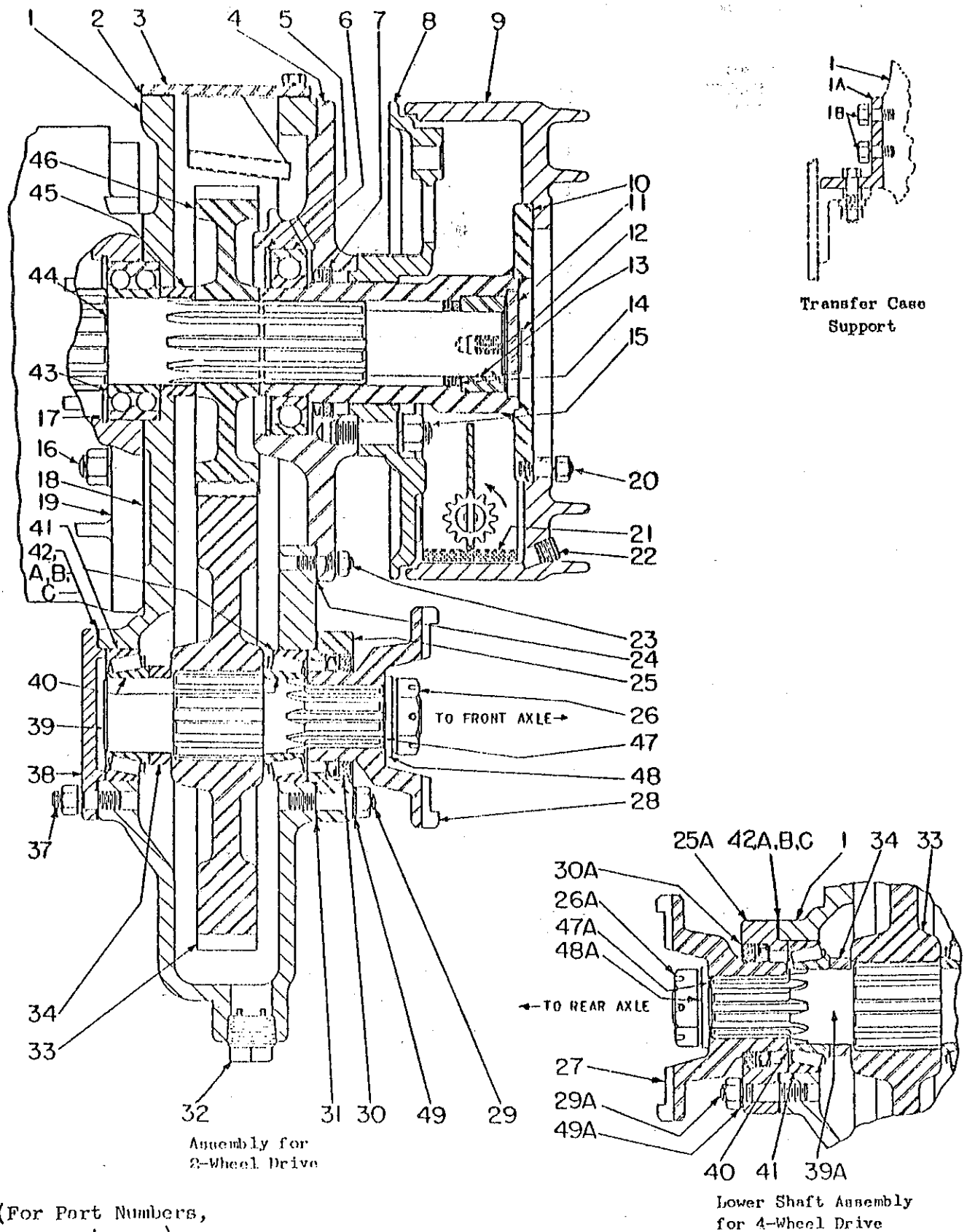
(For Part Numbers,
see next page)

PROPELLER SHAFT BRAKE
(Single Speed Transfer Case)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-17362	1	BRAKE GROUP (includes Ref. Nos. 2 and 6 to 20 inclusive)
2	PGF-17362-55	1	SHOE AND LINING SET (2 shoes lined. Includes Ref. No. 4)
4	PGF-17362-56	1	LINING SET (2 linings with rivets. Includes Ref. No. 5)
5	331008	20	RIVET, tubular
6	331065	1	SOCKET, adjusting screw
7	331033	1	SCREW, adjusting
8	331061	1	NUT, adjusting screw pivot
9	331035	1	GUIDE, shoe, anchor pin
10	331053	1	PIN, anchor
11	331038	1	SPRING, anchor to shoe
12	331039	1	SPRING, anchor to shoe
13	331034	1	SPRING, adjusting screw
14	331020	2	SPRING, shoe hold down
15	331024	2	PIN, spring
16	331021	4	CUP, spring
19	331062	1	NUT, anchor pin
20	331027	1	WASHER, lock, anchor pin
21	PGF-7359	2	LINK, connecting
22	PGF-10899	1	LEVER
23	PGF-7454	1	STRUT
24	PGF-10902	1	SPRING, strut
25	PGF-10903	1	SPRING, strut to lever
25A	PGF-10901	1	WASHER
26	PGF-10904	1	PIN, shoe and lever
27	PGF-10905	1	WASHER, lever pin
28	166009	2	PIN, cotter
29	722003	1	NUT, lever pin
30	778011	1	WASHER, lock, lever pin

PROPELLER SHAFT BRAKE CYLINDER

41	PGF-11503	1	DRUM CYLINDER GROUP (includes Ref. Nos. 41A to 41G inclusive)
41A	333132	1	CASTING
41B	333014	2	PISTON
41C	333015	2	CUP
41D	333016	1	SPRING
41E	333117	2	BOOT
41G	333146	1	SCREW, cylinder bleeder
42	HCF-2797	1	EXTENSION, bleeder valve
43	PGF-4442	2	WASHER, bleeder valve extension
44			WASHER
45			TUBE
46			CONNECTER
47	HCF-2796	1	BOLT, bleeder valve extension



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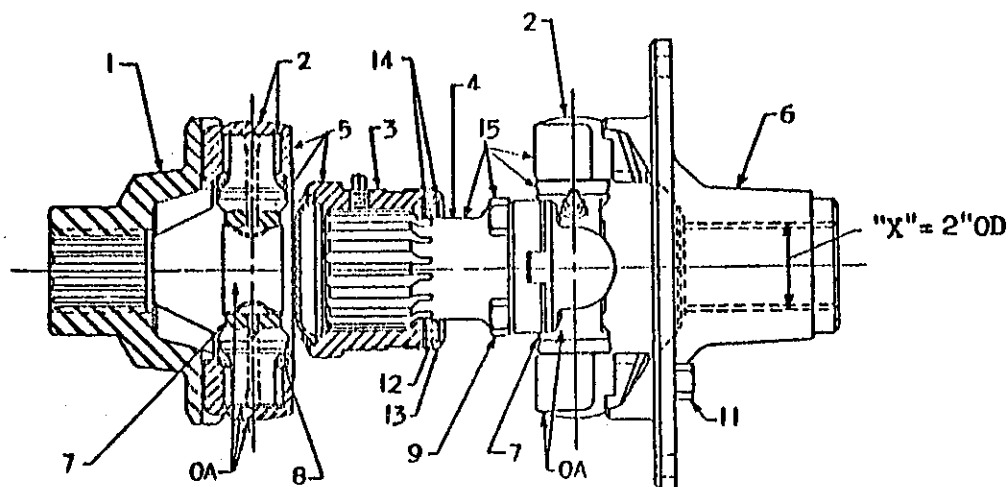
TRANSFER CASE - SINGLE SPEED (FOR 3 SPEED TRANSMISSION COMBINATION)
(2-Wheel or 4-Wheel Drive)

TRANSFER CASE - SINGLE SPEED
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0		1	TRANSFER CASE GROUP
1	HC-381	1	HOUSING, gear
1A	HCF-2857	2	SUPPORT
1B	741787	8	BOLT
2	HCF-2691	1	GASKET, cover
3	HCF-2862	1	COVER, gear housing
4	HC-240	1	CAP, bearing
5	PGF-12756	1	RING, snap
6	311211	1	BEARING, ball
7	194118	1	SEAL, oil
8	HC-245	1	PLATE, backing
9	PG-944	1	DRUM, brake
10	HCF-2865	1	FLANGE, brake
11	HCF-2860	1	WASHER
12	PGF-13292	1	KEEPER, main shaft
13	HCF-2867	1	SPACER
14	194120	1	SEAL, oil
15	HCF-2861	7	STUD
16	POF-8498	9	STUD, case
17			SNAP RING, main shaft bearing
18			GASKET, transmission case
19			CASE, transmission
20	PGF-4450	6	STUD
21			PROPELLER SHAFT BRAKE GROUP (see sep. page)
22	812002	4	PLUG, pipe, countersunk head
23	HCF-2468	8	STUD
24	PGF-12884	1	GASKET
25	PG-2217	1	CAP, bearing
26	PGF-15388	1	NUT, slotted
28			YOKE, fitting (see separate page)
29	PGF-2840	4	STUD
30	PGF-6024	1	SEAL, oil
31	PGF-13310	1	GASKET
32	PGF-9014	1	PLUG, drain
33	PGF-13355	1	GEAR (56 teeth)
34	HCF-1896	1	SPACER
35	810005	1	PLUG, oil level and filler (not shown)
37	BTF-890	4	STUD
38	HC-224	1	CAP, bearing
39	HCF-2836	1	SHAFT, lower
40	312505	2	CONE AND ROLLERS, bearing
41	313190	2	CUP, bearing
42	HCF-2874	2	GASKET
42A	HCF-2875	As req'd	SHIM (.005)
42B	HCF-2876	As req'd	SHIM (.007)
42C	HCF-2877	As req'd	SHIM (.020)
43			BALL BEARING, main shaft
44			MAIN SHAFT, transmission
45			SPACER
46	HCF-1875	1	PINION (36 teeth)
47	PGF-4865	2	GASKET
48	PGF-4864	1	WASHER
49	766011	4	WASHER, lock, external teeth

Parts Required for Transfer Case Lower Shaft Assembly (4-Wheel Drive)

25A	PG-2217	1	CAP, bearing
26A	PGF-15388	1	NUT, slotted
27			YOKE, fitting (see separate page)
29A	PGF-2840	4	STUD
30A	PGF-6024	1	SEAL, oil
39A	HCF-2845	1	SHAFT, lower
47A	PGF-4865	2	GASKET
48A	PGF-4864	1	WASHER
49A	766011	4	WASHER, lock, external teeth



FRONT AXLE PROPELLER SHAFT - 2ND TYPE
(Two Speed Transfer Case)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-7257	1	PROPELLER SHAFT, complete
OA	PGF-8807-57	2	SPIDER AND BEARING GROUP (includes Ref. Nos. 2,7 and 8 assembled)
1	PGF-8537-58	1	YOKE, fitting
2		8	BEARING GROUP (not sold separately. Order Ref. No. OA)
3	465207	1	SLIP YOKE WITH DUST CUP
4	465153	1	YOKE, stub
5	465213	1	JOINT GROUP (includes Ref. Nos. 2,3,7,8,9, 12,13 and 14)
6	HCF-7257-55	1	FLANGE, brake
7		2	SPIDER GROUP (not sold separately. Order Ref. No. OA)
8	465149	8	WASHER, cork
9	PGF-9717-55	12	CAPSCREW
11	PGF-8807-58	4	CAPSCREW
12	465147	1	FELT
13	465146	1	RETAINER, felt
14	465148	2	WASHER, retainer
15	465113	1	STUB YOKE AND JOINT GROUP (includes Ref. Nos. 2,4,7,8 and 9)

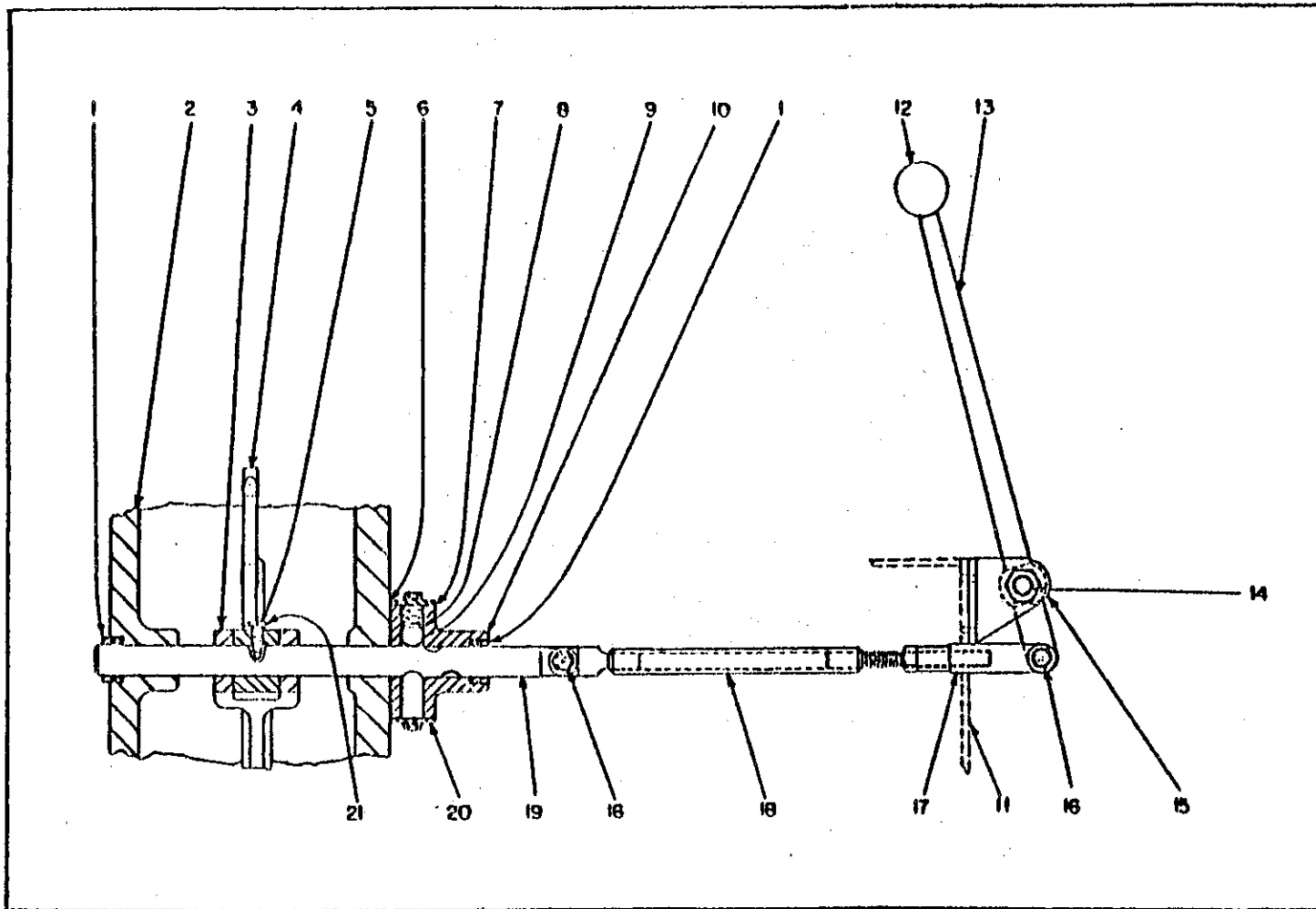
(2nd Type - See "X" in Picture)

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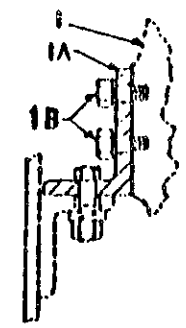


TRANSFER CASE SHIFT MECHANISM
(Two Speed Transfer Case)

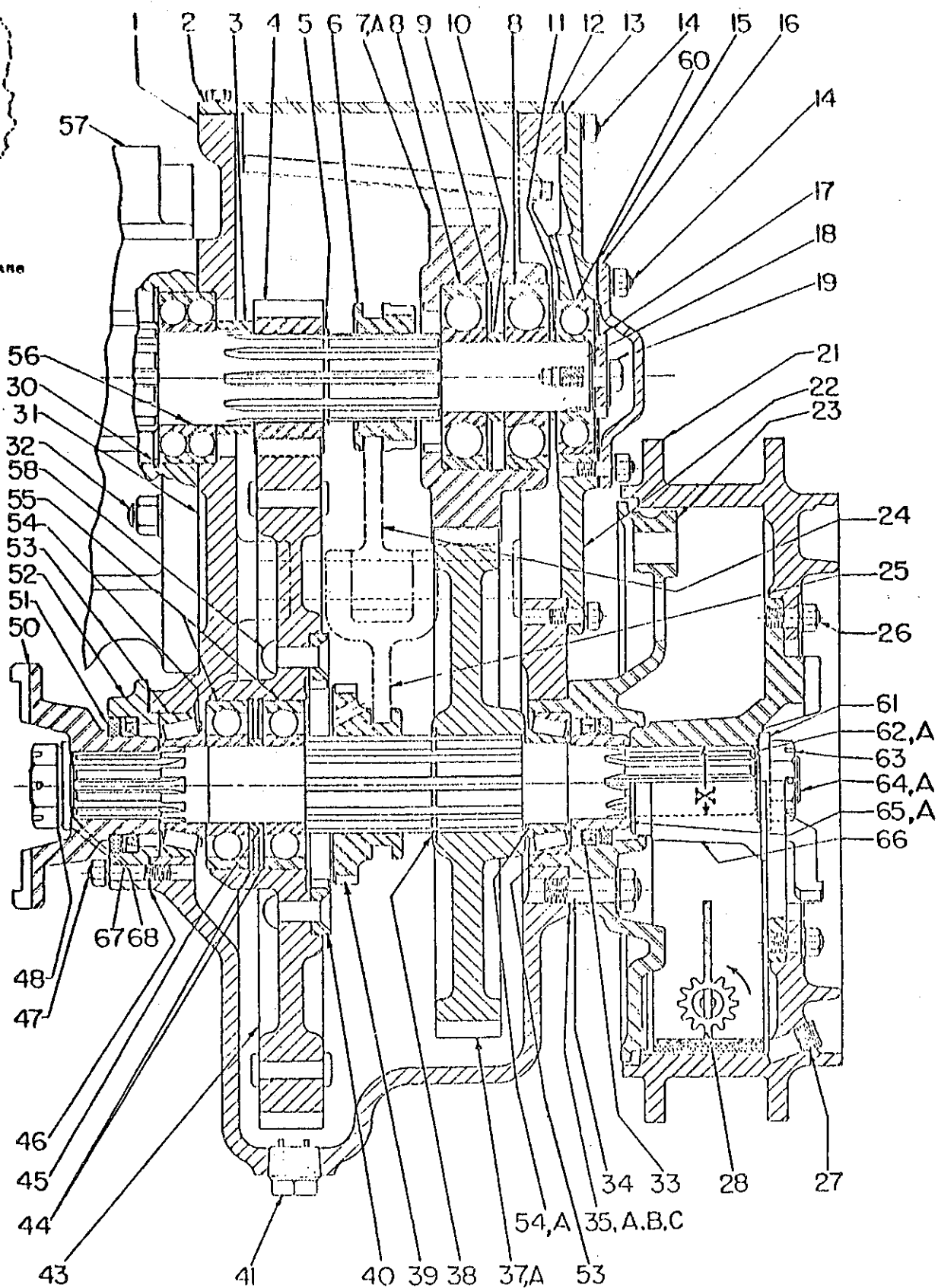
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-3129	2	SEAL, oil
2		1	CASE, transfer
3	PGF-13315	1	FORK, shift - low range
4	PGP-13313	1	FORK, shift - with lock screw Ref. No. 5 - high range
5	PGF-13337	1	SCREW, lock
6	PGF-13281	1	GASKET
7	PGF-12890	2	GASKET
8	PGF-309	1	SPRING
9	PGF-8638	1	BALL
10	HC-255	1	CAP
11		1	PLATE, mainframe
12	PGF-7721	1	BALL, shift lever
13	HCF-6891	1	LEVER, shift
14	HCF-2049	1	BOLT
15	HCF-6872	1	BRACKET
16	783006	2	PIN
17	782009	1	YOKE
18	HCF-7053	1	SHIFT TUBE WITH FORK
19	HCF-3084	1	ROD, shift
20	PGF-12869	2	CAP
21	PGF-9738	1	WIRE, locking

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Transfer Case
Support



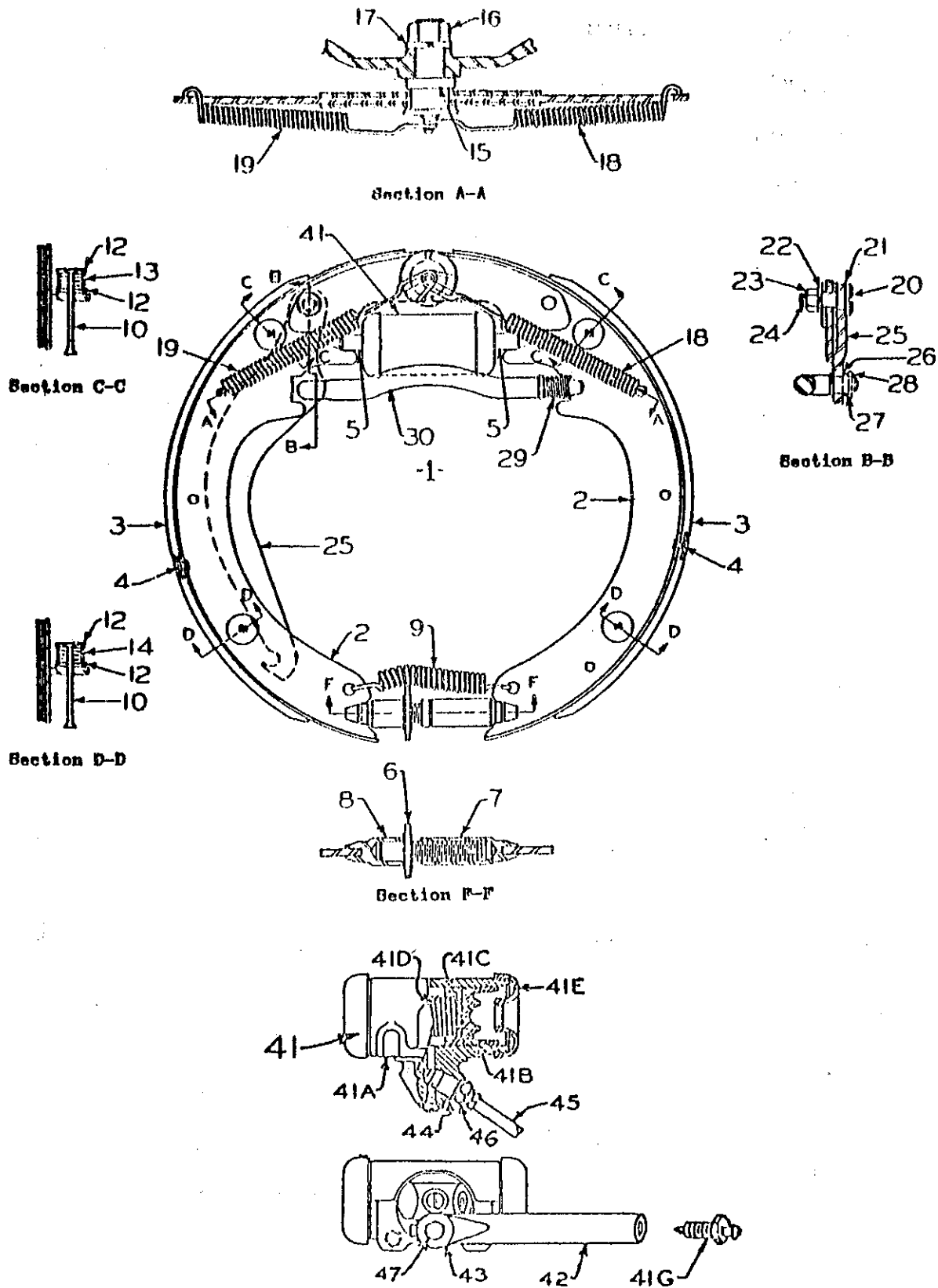
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TRANSFER CASE - TWO SPEED
(For 6 Speed Transmission Combination)

(For Part Numbers,
see next page)

TRANSFER CASE - TWO SPEED
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0		1	TRANSFER CASE GROUP
1	HC-380	1	HOUSING, gear
1A	HCF-1099	2	SUPPORT
1B	741787	8	BOLT
2	HCF-9868	1	COVER, gear housing
3			SPACER (see separate page)
4	PGF-11086	1	PINION, drive (15 teeth)
5	PGF-8435	1	RING, snap
6	PGF-12800	1	GEAR, shifter clutch (21 teeth)
7	PGF-12833	1	GEAR (36 teeth)
7A	HCF-9854	1	GEAR (48 teeth)-(cranes 410-1960 and up)
8	311392	2	BEARING, ball
9	PGF-12831	1	RING, snap
10	PGF-12830	1	SPACER
11	PGF-8429	1	WASHER, spacer
12	HCF-1908	1	GASKET, cover
13	PGF-12884	1	GASKET
14	PGF-8433	12	STUD
15	PGF-12803	1	GASKET
16	PG-2207	1	CAP, bearing
17	PGF-13291	1	WASHER
18			MAIN SHAFT, transmission (see separate page)
19	PGF-13292	1	KEEPER, main shaft
20	810005	1	PLUG, oil level and filler (not shown)
21	PG-2141	1	DRUM, brake
22	HC-663	1	SUPPORT
23	HC-186	1	PLATE, backing
24			SHIFT FORK WITH PGF-13337 LOCK SCREW - high range (see separate page)
25			SHIFT FORK - low range (see separate page)
26	PGF-8855	6	STUD
27	812002	4	PLUG, pipe, countersunk head
28			PROPELLER SHAFT BRAKE GROUP
30			RING, snap, main shaft bearing
31			GASKET, transmission case
32	PGF-8498	9	STUD
33	PGF-8809	1	SEAL, oil
34	HCF-1957	7	STUD
35	PGF-13534	2	GASKET
35A	PGF-13533	As req'd	SHIM (.005)
35B	PGF-13532	As req'd	SHIM (.007)
35C	PGF-13531	As req'd	SHIM (.020)
37	PGF-13869	1	GEAR (56 teeth)-(order Ref. 37A, 7A, 2 and 22)
37A	HCF-9853	1	GEAR (44 teeth) (cranes 410-1960 and up)
38	PGF-13812	1	RING, snap
39	PGF-13349	1	GEAR, shifter clutch (30 teeth)
40	PGF-8440-2	1	RING, drive (30 teeth)
41	PGF-9014	1	PLUG, drain
43	PGF-12832	1	GEAR (77 teeth - includes Ref. Nos. 40 and 58)
44	PGF-12839	2	RING, snap
45	PGF-12841	1	SPACER
46	PGF-13310	1	GASKET
47	PGF-2840	4	STUD
48	PGF-15388	1	NUT, slotted
50			YOKE, fitting (see separate page)
51	PGF-6024	1	SEAL, oil
52	PG-2217	1	CAP, bearing
53	313190	2	CUP, bearing
54	312514	-	CONE AND ROLLERS, bearing (2 for Ref. 64 and 1 for Ref. 64A)
54A	312505	1	CONE AND ROLLERS, bearing (for Ref. 64A)
55	311371	2	BEARING, ball
56			BALL BEARING, main shaft
57			CASE, transmission
58	575143	6	RIVET, countersunk head
60	311367	1	BEARING, ball
61	PGF-8706	1	WASHER
62	PGF-8521	2	GASKET (for Ref. 64)
62A	HCF-7262	2	GASKET (for Ref. 64A)
63	PGF-8708	1	NUT, slotted
64	HCF-3090	1	SHAFT (1st type - "X"-1-3/4" OD)
64A	HCF-7261	1	SHAFT (2nd type - "X"-2" OD)
65	HCF-1955	1	SPACER (for Ref. 64)
65A	HCF-7263	1	SPACER (for Ref. 64A)
66			FLANGE, brake (see separate page)
67	PGF-4864	1	WASHER
68	PGF-4865	2	GASKET



(For Part Numbers, see next page)

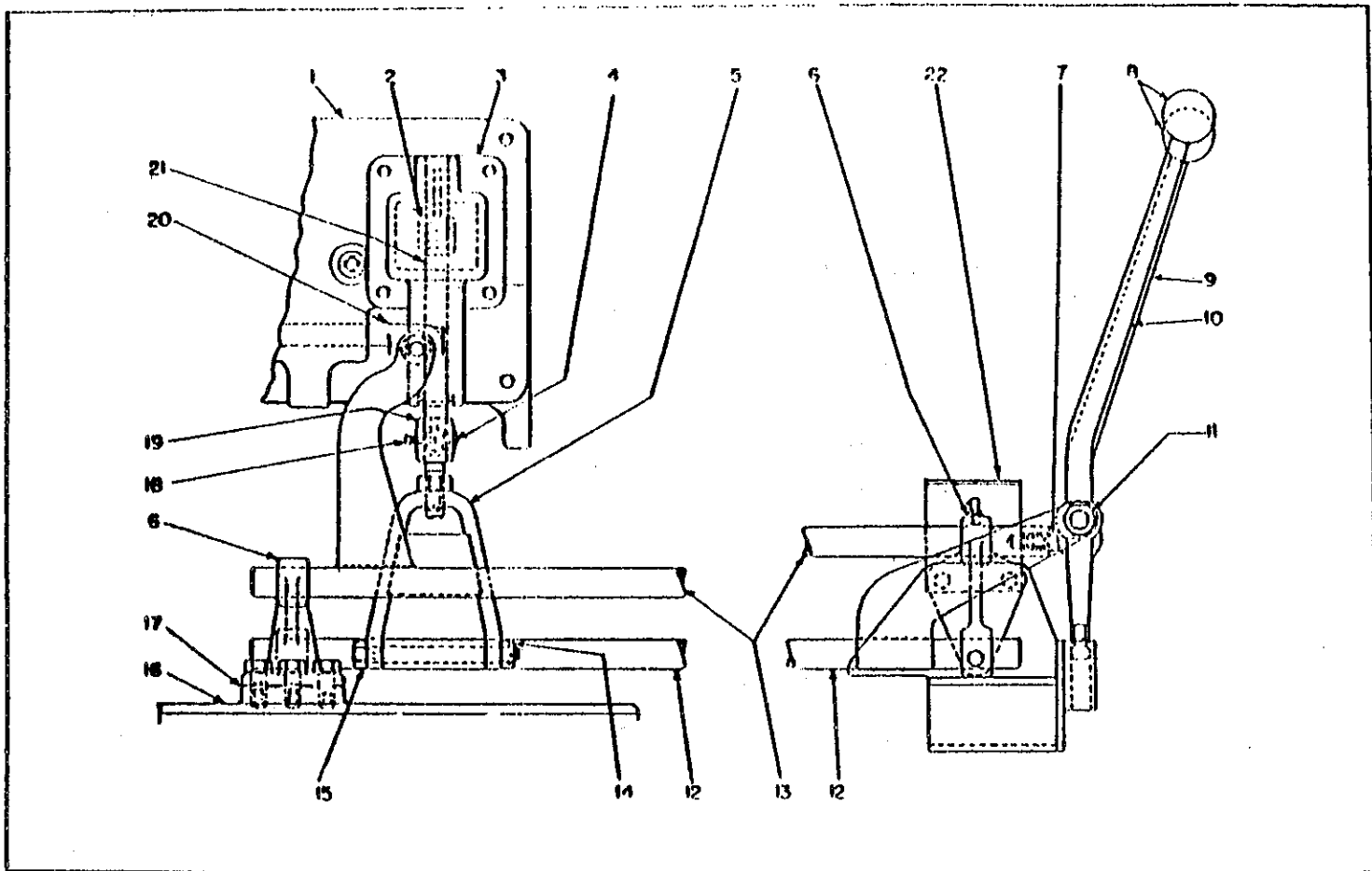
PROPELLER SHAFT DRAKE
(Two Speed Transfer Case)

PROPELLER SHAFT BRAKE
(Two Speed Transfer Case)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-17364	1	BRAKE GROUP (includes Ref. Nos. 2 and 5 to 29 inclusive)
2	PGF-17364-55	1	SHOE AND LINING SET (2 shoes lined. Includes Ref. No. 3)
3	PGF-17364-56	1	LINING SET (2 linings with rivets. Includes Ref. No. 4)
4	331007	50	RIVET, tubular
5	331070	2	LINK, connecting
6	331040	1	SCREW, adjusting
7	331072	1	NUT, adjusting screw pivot
8	331073	1	SOCKET, adjusting screw
9	331030	1	SPRING, adjusting screw
10	331029	4	PIN, spring
12	331021	8	CUP, spring
13	331031	2	SPRING, shoe hold down
14	331026	2	SPRING, shoe hold down
15	331071	1	PIN, anchor, shoe guide
16	331069	1	NUT, anchor pin
17	331028	1	WASHER, lock, anchor pin
18	331037	1	SPRING, anchor to shoe
19	331042	1	SPRING, anchor to shoe
20	PGF-10904	1	PIN, shoe and lever
21	PGF-10905	1	WASHER, lever pin
22	331096	1	WASHER, lock, lever pin
23	331103	1	NUT, lever pin
24	331108	1	PIN, cotter
25	331067	1	LEVER
26	PGF-10903	1	SPRING, strut to lever
27	PGF-10901	1	WASHER
28	331099	1	PIN, cotter
29	PGF-10902	1	SPRING, strut
30	ASF-5057	1	STRUT

PROPELLER SHAFT BRAKE CYLINDER

41	PGF-11503	1	DRUM CYLINDER GROUP (includes Ref. Nos. 41A to 41G inclusive)
41A	333132	1	CASTING
41B	333014	2	PISTON
41C	333015	2	CUP
41D	333016	1	SPRING
41E	333117	2	BOOT
41G	333146	1	SCREW, cylinder bleeder
42	HCF-2797	1	EXTENSION, bleeder valve
43	PGF-4442	2	WASHER, bleeder valve extension
44			WASHER
45			TUBE
46			CONNECTOR
47	HCF-2796	1	BOLT, bleeder valve extension



TRANSMISSION SHIFT MECHANISM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION	
1			COVER, transmission case	} (see separate page)
2			SELECTOR	
3			TOWER, shift	
4	HCF-2045	1	BEARING, rod end	
5	HCF-3565	1	ARM, pivot	
6	HC-202	2	BRACKET	
7	HCF-2436	1	END, rod	
8	PGF-7721	2	BALL, shift lever	
9	HCF-7032	1	LEVER, shift (for Ref. No. 13)	
10	HCF-2574	1	LEVER, shift (for Ref. No. 12)	
11	HCF-2049	2	POINT	
12	HCF-7120	1	RAIL, shift - selector speed	
13	HCF-7121	1	RAIL, shift - forward and reverse	
14	734005	1	NUT, slotted	
15	HCF-3561	1	POINT	
16		1	SIDE RAIL - R.H., mainframe	
17	HCF-2050	5	SHIM	
18	PGF-11675	1	SCREW, lock	
19			ARM	} (see separate page)
20			SHIFT ROD, forward and reverse	
21			SHIFT ROD, shift tower	
22	HCF-2715	1	SHIELD, grease	

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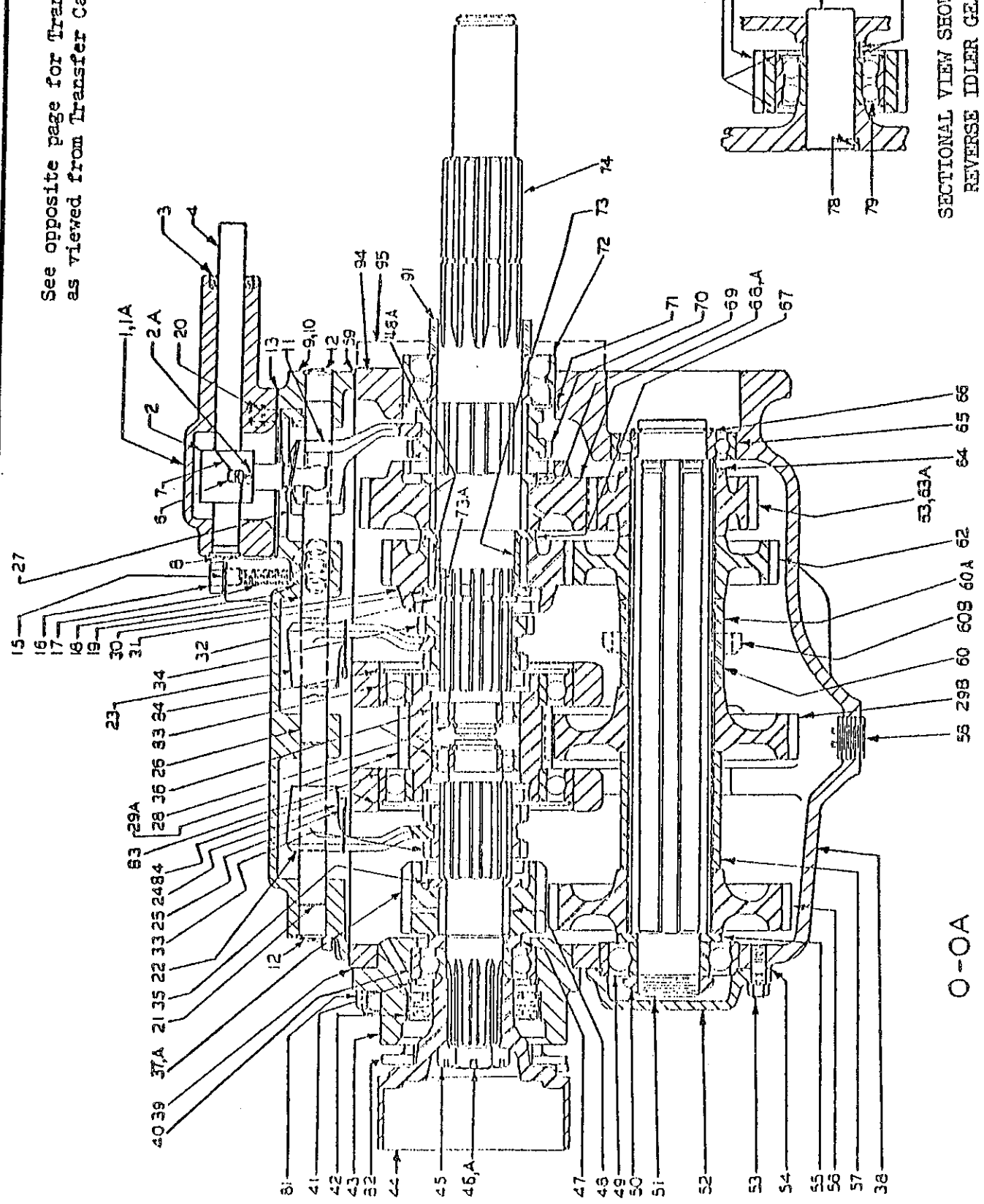
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See opposite page for Transmission
as viewed from Transfer Case end

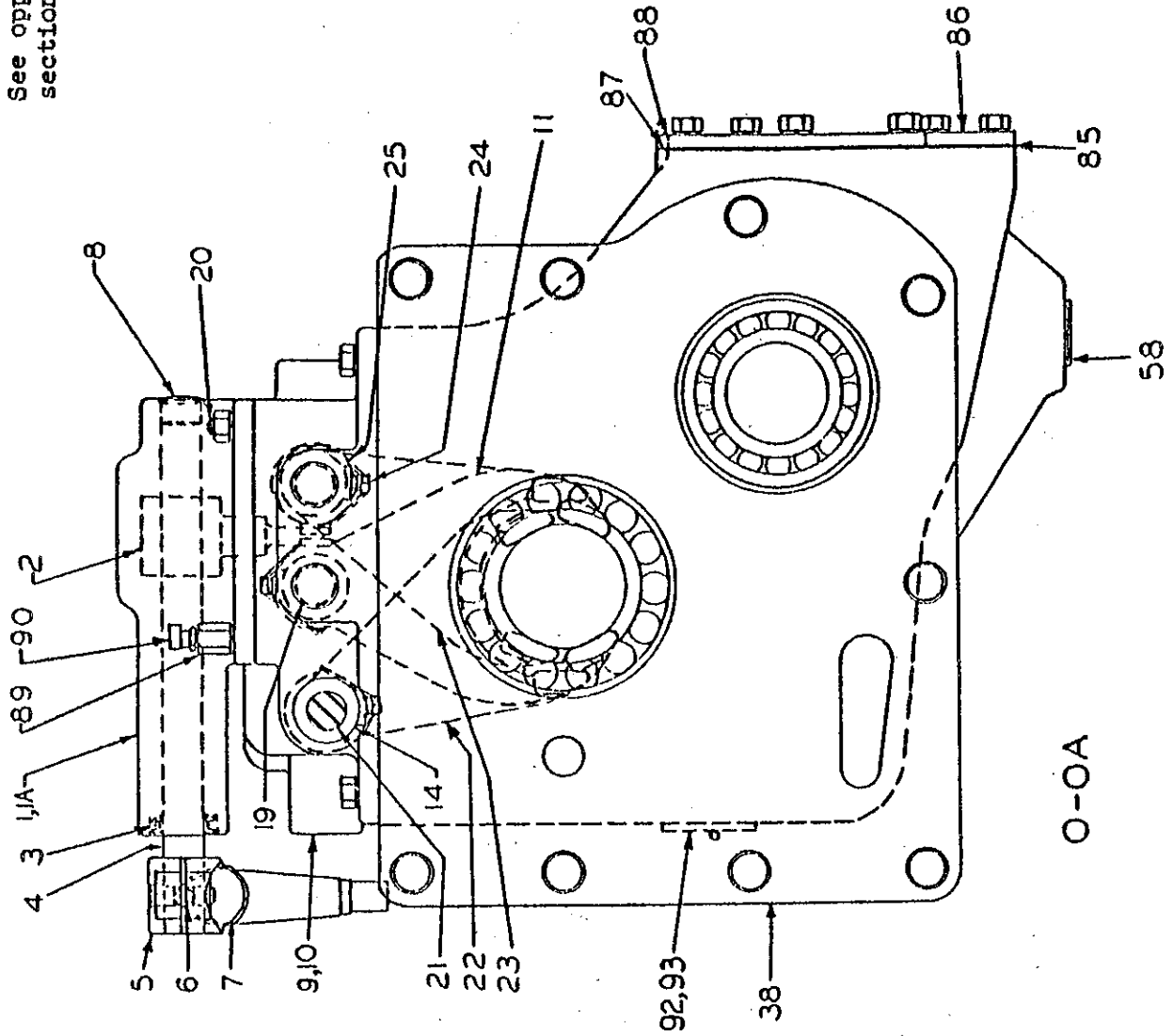


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TRANSMISSIONS
(Used with Single Speed and Two Speed Transfer Cases)

SECTIONAL VIEW SHOWING
REVERSE IDLER GEAR

See opposite page for cross
section side of Transmission



(For Part Numbers,
see next page)

TRANSMISSIONS
(Used with Single Speed and Two Speed Transfer Cases)

TRANSMISSIONS

Used with Single Speed and Two Speed Transfer Cases
(For illustrations, see preceding two pages)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-452	1	TRANSMISSION, complete (used with two speed transfer case) (includes Ref. Nos. 9 and 28 to 93 inclusive except Ref. Nos. 60A, 60B, 63A and 68A)
0A	HCU-511	1	TRANSMISSION, complete (used with single speed transfer case) (includes Ref. Nos. 9 and 28 to 93 inclusive except Ref. Nos. 60A, 60B, 63 and 68)
1	HCU-357	1	SHIFT TOWER GROUP, transmission (includes Ref. Nos. 1A to 8 inclusive)
1A	HC-203	1	TOWER, shift
2	HCF-4772	1	SELECTOR
2A	HCF-2408	1	LOCK BOLT, selector
3	194198	1	SEAL, oil
4	HCF-2043	1	SHIFT ROD, shift tower
5	HC-A-204	1	ARM, shift rod
6	PGF-11675	2	SCREW, locking
7	PGF-9738	2	WIRE, locking screw
8	164032	1	PLUG, expansion
9	HCU-547	1	COVER GROUP, transmission case (includes Ref. No. 1 and Ref. Nos. 10 to 27 inclusive)
10	PG-2147	1	COVER
11	HCP-3113	1	SHIFTER FORK, 1st speed - with lock screw Ref. No. 24
12	164032	3	PLUG, expansion
13	PGF-12813	1	GASKET, shift tower
14	194198	1	SEAL, oil
15	PGF-5717	3	WASHER, shift rod lock capscrew
16	PGF-9132	3	CAPSCREW, shift rod lock
17	PGF-9131	3	SPRING, shift rod lock
18	021003	6	BALL, shift rod lock spring
19	HCF-3114	1	SHIFT ROD, 1st speed
20	PGF-8433	3	STUD
21	PGF-12925	1	SHIFT ROD, forward and reverse
22	PGP-12801	1	SHIFT FORK, forward and reverse - with lock screw (includes one of Ref. No. 24)
23	PGP-12801	1	SHIFT FORK, 2nd and 3rd - with lock screw (includes one of Ref. No. 24)
24	PGF-11675	4	SCREW, shift fork locking
25	PGF-9738	6	WIRE, shift fork locking screw
26	PGF-12795	1	SHIFT ROD, 2nd and 3rd
27	PGF-9159	1	SHIFT LUG, 2nd and 3rd

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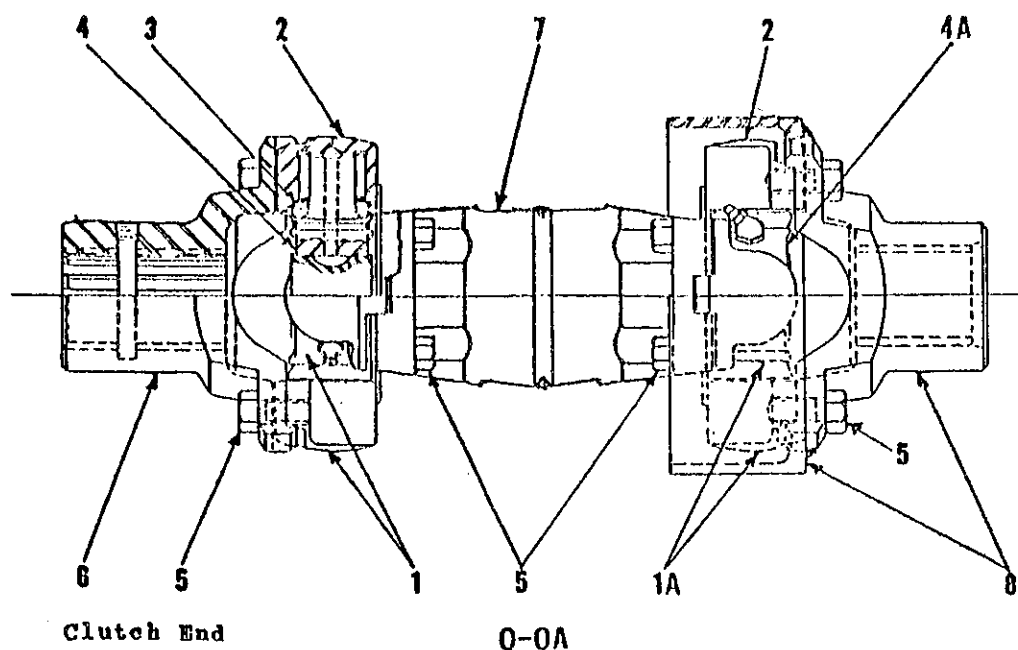
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
28	PGF-13566	2	RING, snap, MS ball bearing
29A	PGF-12821	1	PINION, MS drive - 24 teeth
29B	PGF-9067	1	GEAR, CS driven - 42 teeth
30	PGF-12676	1	PINION, MS 2nd speed - 31 teeth
31	PGF-9063	1	SPLINED THRUST WASHER, MS 2nd speed pinion
32	PGF-9120	1	RING, snap, MS 2nd speed pinion
33	PGF-12686	1	GEAR, MS forward and reverse shifter clutch - 14 teeth
34	PGF-9068	1	GEAR, MS 2nd and 3rd speed shifter clutch - 14 and 16 teeth
35	PGF-12722	1	THRUST WASHER, MS reverse pinion
36	311306	2	MS BALL BEARING
37	PGF-13719	1	PINION, MS reverse - 23 teeth (order Ref. 37A and 46A)
37A	HCF-8340	1	PINION, MS reverse - 23 teeth
38	HC-283	1	CASE, transmission
39	PGF-12879	1	GASKET
40	311251	1	MS BALL BEARING
41	PGF-12828	1	RING, snap, MS ball bearing
42	PGF-12829	1	SEAL, oil
43	PG-2263	1	HOUSING, bearing support
44			YOKE, clutch brake drum (see separate page)
45	PGF-9133	1	NUT, slotted
46	PGF-13717	1	MAIN SHAFT, input (order Ref. 37A and 46A)
46A	HCF-8339	1	MAIN SHAFT, input
47	PGF-13716	1	THRUST WASHER, MS reverse pinion
48	PGF-13715	30	ROLLER, MS reverse pinion
48A	PGF-9084	84	ROLLER, MS 1st speed gear and 2nd speed pinion
49	311257	1	CS BALL BEARING, with snap ring
50	PGF-9083	1	NUT, CS bearing adjusting
51	PGF-12718	1	COUNTERSHAFT
52	PG-1736	1	CAP, CS bearing
53	BRF-1894	4	STUD, bearing cap to case
54	PGF-9110	1	GASKET, CS bearing cup
55	PGF-9118	1	THRUST WASHER, CS reverse gear
56	PGF-12691	1	CS REVERSE GEAR, 40 teeth
57	PGF-13152	1	SPACER, gear
58	PGF-10846	1	PLUG, drain
59	PGF-12804	1	GASKET, transmission case cover
60	HCF-3301	1	SPACER, gear (not used on Cranes equipped with power take-off)-(2-9/16" long)
60A	HCF-3254	1	SPACER, PTO gear - 1" long) (replaces
60B	HCF-3261	1	GEAR, PTO - 21 teeth) Ref. No. 60)
62	PGF-12675	1	GEAR, CS 2nd speed - 35 teeth
63	PGF-12673	1	PINION, CS 1st speed - 27 teeth (for trans- mission used with two speed transfer case)

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
63A	HCF-3018	1	PINION, CS 1st speed - 20 teeth (for transmission used with single speed transfer case)
64	PGF-9117	1	SNAP RING, CS 1st speed pinion
65	311322	1	CS BALL BEARING
66	PGF-12719	1	SNAP RING, CS ball bearing
67	PGF-9115	1	THRUST WASHER, MS 2nd speed pinion
68	PGF-12679	1	GEAR, MS 1st speed - 39 teeth (for transmission used with two speed transfer case)
68A	HCF-3017	1	GEAR, MS 1st speed - 46 teeth (for transmission used with single speed transfer case)
69	PGF-9114	1	THRUST WASHER, MS 1st speed gear
70	PGF-12685	1	GEAR, MS 1st speed shifter clutch - 20 teeth
71	PGF-9158	1	SNAP RING, MS ball bearing
72	311429	1	MS BALL BEARING
73	PGF-9069	1	SLEEVE, MS 2nd speed pinion bearing
73A	PGF-9116	1	DOWEL PIN, bearing sleeve
74	PGF-13290	1	MAIN SHAFT, output
75	PGF-13087	1	SHAFT, reverse idler
76	PGF-12714	1	GEAR, reverse idler - 25 teeth
77	PGF-9121	2	SNAP RING, reverse idler gear bearing
78	111010	1	KEY, reverse idler shaft
79	311447	1	BEARING, reverse idler gear
80	PGF-9107	2	SPACER, reverse idler gear bearing
81	PGF-9091	6	STUD, housing to case
82	HCF-2868	1	SUPPORT, transmission
83	311606	2	BEARING, MS drive pinion
84	PGF-12826	2	SNAP RING, MS drive pinion bearing
85	HCF-3252	1	GASKET, PTO cover plate
86	HCF-3229	1	PLATE, PTO cover
87	PGF-9864	1	GASKET, inspection plate
88	PGF-13140	1	PLATE, inspection
89	HCF-2805	1	EXTENSION, breather
90	HCF-6418	1	PLUG, vent
91	PGF-12794	1	SPACER
92	PGF-17641	1	PLATE, identification, transmission
93	751020	2	SCREW, drive (for Ref. 92)
94	PGF-12844	1	GASKET, transmission case
95			CASE, transfer (see separate page)

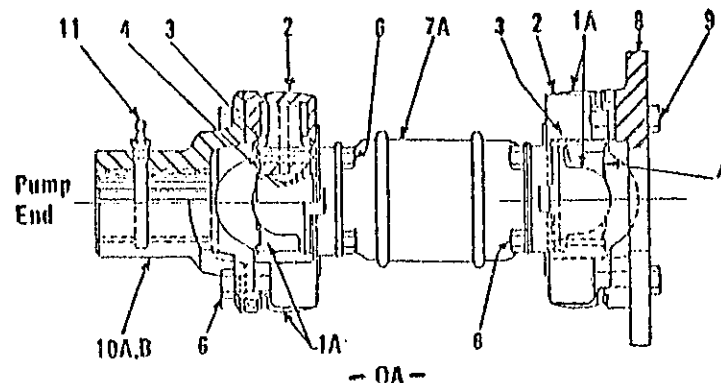
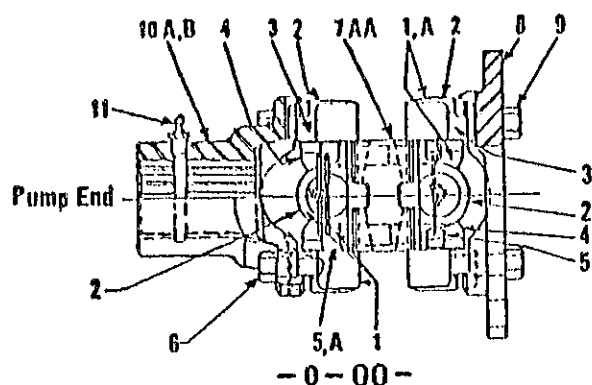


PROPELLER SHAFT - CLUTCH TO TRANSMISSION

REF. NO.	PART NO.	PART NO.	QTY.	DESCRIPTION
0	HCF-4433		1	% PROPELLER SHAFT, complete
0A		HCF-6178	1	& PROPELLER SHAFT, complete (less Ref. 8)
1	465076	465076	1	SPIDER AND BEARING GROUP (includes Ref. Nos. 2, 3 and 4 assembled)
1A	465208	465208	1	SPIDER AND BEARING GROUP (includes Ref. Nos. 2, 3 and 4A assembled)
2			8	BEARING GROUP (not sold separately. Order Ref. No. 1 or 1A)
3	465145	465145	8	WASHER, cork, trunnion
4			1	SPIDER GROUP (not sold separately. Order Ref. No. 1)
4A			1	SPIDER GROUP (not sold separately. Order Ref. No. 1A)
5	TF-1592-59	TF-1592-59	16	CAPSCREW
6	HCF-1924-56	HCF-1924-56	1	YOKE, fitting
7	465271	465272	1	YOKE, welded
8	HCF-2270-56	HCF-6201	1	FITTING YOKE AND DRUM

Note: % For Ford 332, and INCo. UB-264 and UD-282 engines.
 & For GMC-371 engine.





PROPELLER SHAFT - HYDRAULIC PUMP DRIVE
(NON-DISCONNECT TYPE)

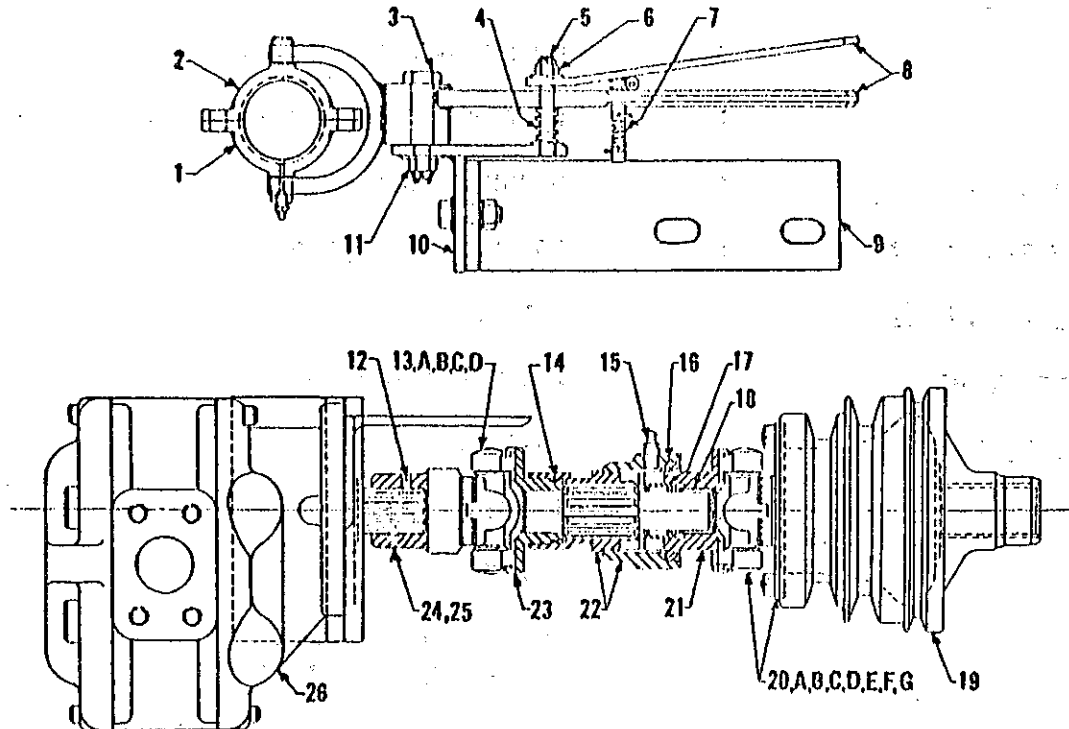
REF. NO.	PART NO.	PART NO.	QTY.	DESCRIPTION
00	HCF-8379		1	% PROPELLER SHAFT, complete (less yoke)
0	HCF-5268		1	% PROPELLER SHAFT, complete (less yoke)
0A		HCF-5262	1	& PROPELLER SHAFT, complete (less yoke)
1	465159		2	SPIDER AND BEARING GROUP (1 req'd for Ref.00 (includes Ref. Nos. 2,3 and 4 assembled)
1A	465158	465158	2	SPIDER AND BEARING GROUP (1 req'd for Ref.00 (includes Ref. Nos. 2,3 and 4 assembled)
2			-	BEARING GROUP (Order Ref. 2,3 and 4 assembled)
3	465150	465150	8	WASHER, cork, trunnion
4			-	SPIDER GROUP (Order Ref. No. 1 or 1A)
5	465265		8	CAPSCREW, socket head
5A	465116		4	CAPSCREW, socket head (for Ref.00)
6	HCF-5262-59		4	CAPSCREW
6		HCF-5262-59	12	CAPSCREW
7	465266		1	YOKE, welded (for Ref.0)
7AA	465117		1	PLATE, coupling (for Ref. 00)
7A		465267	1	PROPELLER TUBE
8	465201	465201	1	FITTING, flanged
9	465299	465299	4	CAPSCREW
10A	HCF-8608	HCF-8608	1	YOKE, fitting (for 48 gallon pump)
10B	HCF-7816	HCF-7816	1	YOKE, fitting (for 73 gallon pump)
11	064542	064542	1	FITTING, lubricating

Note: % For IHCo. UB-264 and UD-282 engines.
& For Ford 332 and GMC-371 engines.

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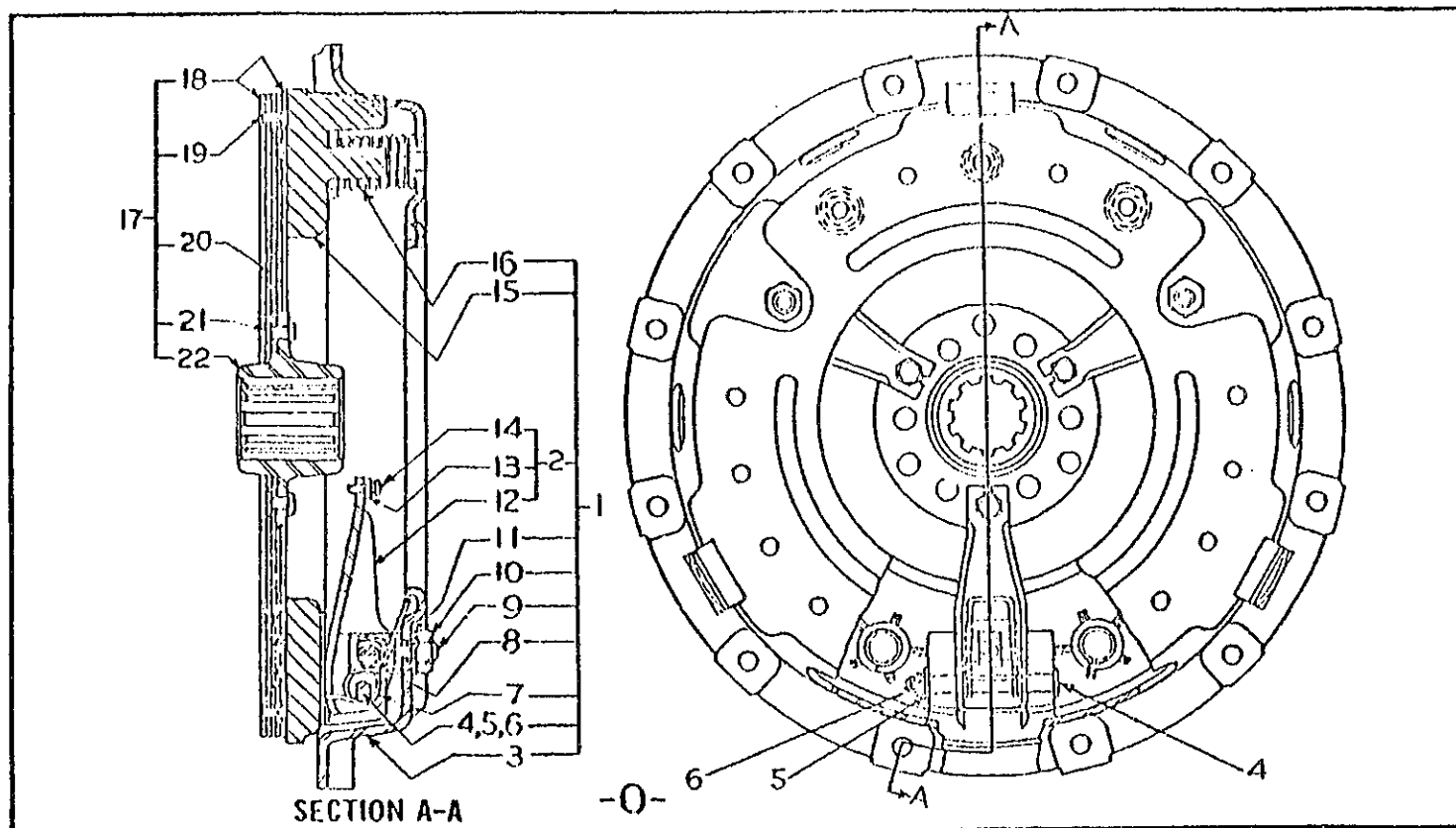
PROPELLER SHAFT - DISCONNECT TYPE - FOR 48 AND 73 G.P.M. HYDRAULIC PUMP DRIVE
(For Ford 332 Engines with Mechanical High Speed Governor)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HC-506	1	YOKE HALF (with grease fitting hole)
2	HC-505	1	YOKE HALF (without grease fitting hole)
3	HCF-6507	1	BOLT
4	PGF-12908	1	SPRING
5	HCF-6509	1	STUD
6	914002	1	NUT, huglock
7	HCF-3330	1	SPRING
8	HCF-7232	1	FORK, shift
9	HCF-7239	1	SUPPORT
10	HCF-7241	1	BRACKET
11	914003	1	NUT, huglock
12	970015	1	SETSCREW, hex-socket, cup point
13	465158	1	SPIDER AND BEARING GROUP (includes Ref. Nos 13A, 13B and 13C assembled)

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
13A		1	SPIDER GROUP } (not sold separately.
13B		4	BEARING GROUP } Order Ref. No. 13)
13C	465150	4	WASHER, cork, trunnion bearing
13D	HCF-5262-57	8	CAPSCREW, fitting yoke
14	PGF-9648-62	1	O'RING
15	HCF-7291	1	FITTING, lubricating
16	194342	1	SEAL, oil
17	318538	1	BEARING, roller
18	318536	1	BEARING, roller
19			PULLEY, fan and hydraulic pump drive (see separate page)
20	HCF-6542	1	UNIVERSAL JOINT FLANGE GROUP (includes Ref. Nos. 20A, 20E and 20F)
20A	465158	1	SPIDER AND BEARING GROUP (includes Ref. Nos. 20B, 20C and 20D assembled)
20B		1	SPIDER GROUP } (not sold separately.
20C		4	BEARING GROUP } Order Ref. No. 20A)
20D	465150	4	WASHER, cork, trunnion bearing
20E	465201	1	FITTING, flanged
20F	465025	4	CAPSCREW, flanged fitting
20G	HCF-5262-57	4	CAPSCREW, jaw clutch yoke
21	HCF-7221	1	YOKE, jaw clutch
22	HCF-7240	1	JAW CLUTCH
23	HCF-7246	1	YOKE AND SHAFT
24	HCF-7309	1	YOKE, fitting (for 48 gallon pump)
25	HCF-7816	1	YOKE, fitting (for 73 gallon pump)
26			CRANE PUMP, 48 and 73 G.P.M. (see separate pages)



CLUTCH (Facing Type)

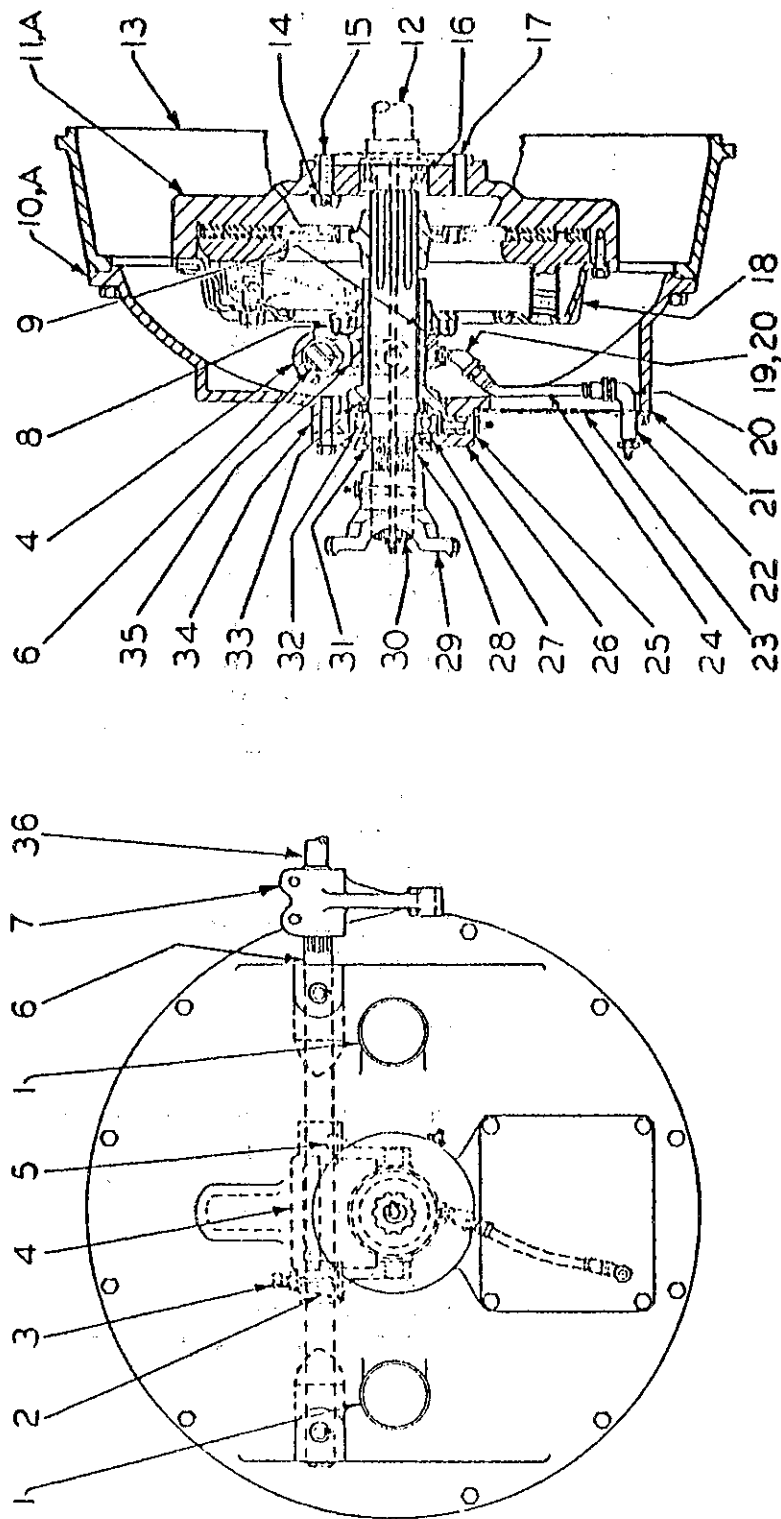
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-7207	1	CLUTCH GROUP, complete
1	382356	1	COVER GROUP (includes Ref. 3 to 16 inclusive)
2	382363	3	LEVER GROUP (includes Ref. 12, 13 and 14)
3	382357	1	PLATE, back
4	382359	3	PIN, lever
5	382361	3	WASHER, plain
6	382057	3	PIN, cotter
7	382349	3	SPRING, lever
8	382362	3	PIN, lever pivot
9	382360	3	BLOCK, lever pivot
10	382350	3	NUT, jam
11	382347	3	WASHER, lock, external teeth
12		3	* LEVER
13	382024	3	NUT, jam
14	382364	3	SCREW, lever adjusting
15	382358	1	PLATE, pressure
16	382002	9	SPRING, pressure
17	382354	1	DRIVEN MEMBER GROUP (includes Ref. Nos. 18 to 22 inclusive)
18	382365	2	FACING
19	382366	36	RIVET, tubular
20		1	% PLATE
21		12	% RIVET
22		1	% CENTER

Note: * Indicates parts not sold separately. Order Ref. No. 2.

% Indicates parts not sold separately. Order Ref. No. 17.

When replacing Ref. 2, part No. 382363 Lever group, we recommend installing a complete set of three lever groups.



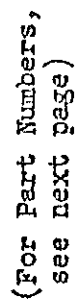


(For Part Numbers,
see next page)

CLUTCH AND SHAFT ASSEMBLY
(For Ford 332, GMC-371 and
IHC Co. UB-264 and UD-282 Engines)

CLUTCH AND SHAFT ASSEMBLY
(For illustration, see preceding page)

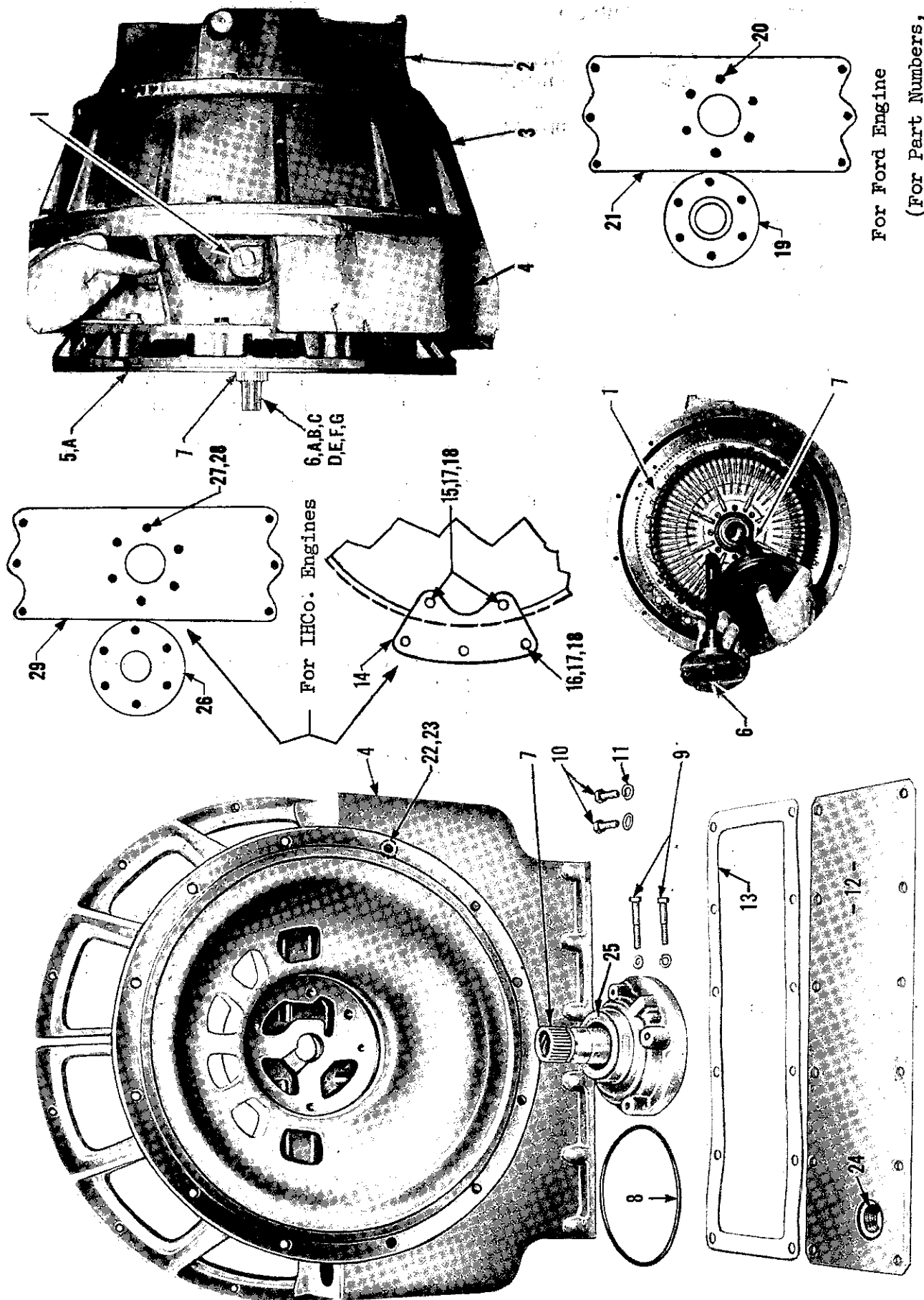
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	BTF-872	2	BREATHER (for all engines except GMC-371)
2	PGF-9738	1	WIRE, lock
3	PGF-9269	1	SCREW, clutch yoke lock
4	PG-2015	1	YOKE, clutch throwout
5	111010	1	KEY, yoke
6	HCF-2823	1	SHAFT, clutch yoke
7			LEVER (see separate page)
8	PGF-11576	1	BEARING, clutch throwout
9	PGF-11577	1	PIN, clutch throwout bearing
10	HC-192	1	BELL HOUSING, clutch (for all engines except GMC-371)
10A	PG-2277	1	BELL HOUSING, clutch (for GMC-371 engine only)
11	HC-195	1	FLYWHEEL, clutch (for all engines except GMC-371)
11A	PG-2274	1	FLYWHEEL, clutch (for GMC-371 engine only)
12			SHAFT, flanged } (see Borg and Beck SPACER } converter page)
13			
14	PGF-9738	2 or 3	WIRE, lock
15	HCF-3581	4	BOLT, flywheel (for Ref. 11)
15	HCF-3581	6	BOLT, flywheel (for Ref. 11A)
16	311158	1	BEARING, pilot
17	HCF-3413	2	PIN, dowel (for Ref. 11)
18			CLUTCH (see separate page)
19	564001	1	ELBOW, street, 45° (for all engines except GMC-371)
20	565001	2	ELBOW, street, 90° (for GMC-371 engine only)
21	HCF-1968	1	GASKET
22	525001	1	COUPLING
23	HCF-1969	1	PLATE, inspection
24	PGF-17580	1	HOSE, grease
25	PGF-8766	1	GASKET
26	PG-2016	1	CAP, bearing
27	PGF-11192	1	SEAL, oil
28	PGF-10452	1	RING, snap
29			YOKE, fitting (see separate page)
30	HCF-1923	1	SHAFT, clutch
31	PGF-11178	1	SPACER
32	311167	1	BEARING, ball
33	194262	1	SEAL, oil
34	PG-2017	1	SLEEVE, bearing carrier
35	PG-2020	1	CARRIER, bearing
36			SHAFT (see separate page)



CLUTCH BRAKE AND CLUTCH OPERATING MECHANISM

CLUTCH BRAKE AND CLUTCH OPERATING MECHANISM
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-10087	1	PEDAL
2	782005	2	YOKE
3	783005	6	PIN
4	HC-484	1	LEVER
5	HCF-2983	2	LINK
6	HCF-2824	1	BOLT, pivot
7	755055	1	SETSCREW, cup point
8			SUPPORT, transmission (see separate page)
9	PGX-1414	1	SHOE WITH LINING AND RIVETS (includes Ref. Nos. 10 and 11)-(for all engines except GMC-371)
9A	HCF-6209	1	SHOE WITH LINING AND RIVETS (includes Ref. Nos. 10A and 11)-(for GMC-371 engine only)
10	PGF-7590	1	LINING (for Ref. 9)
10A	HCF-6209-1	1	LINING (for Ref. 9A)
11	926033	6	RIVET, tubular
12	BDF-345	1	PIN
13	PGF-13153	1	BRACKET (for all engines except GMC-371)
13A	HCF-6206	1	BRACKET (for GMC-371 engine only)
14	PGF-13130	1	SHAFT
15	PGF-13241	1	GUIDE
16	MSF-1070	1	SPRING
17	PGF-13126	1	BRACKET
18	PGF-13129	1	ROD
19	739117	1	PIN, groove
20	PGF-13124	1	CAM
21	HCF-2439	1	BRACKET
22	HCF-2693	1	SHAFT
24	HCF-4347	1	ROD
25			SHAFT, clutch yoke (see separate page)
26	HC-249	1	LEVER
27	HCF-2856	1	SHAFT
28	PGF-13402	1	BUSHING
29	HCF-2844	1	SUPPORT
29A	HCF-10664	1	SUPPORT (crane 410-2260)
31			PROPELLER SHAFT (see separate page)
32			SPACER (see Borg and Beck converter page)
33	PGF-7737	1	EYEBOLT
34			BELL HOUSING, clutch (see separate page)
35	MGF-2703	1	SPRING
37	HCF-4352	1	ROD
38	PGF-8977	1	LINK, spring
39	ASF-5749	1	BUSHING
40	PGF-8731	1	WASHER



BORG AND BECK TORQUE CONVERTER
(For Ford 332, and IHCo. UB-264 and UD-282 Engines)

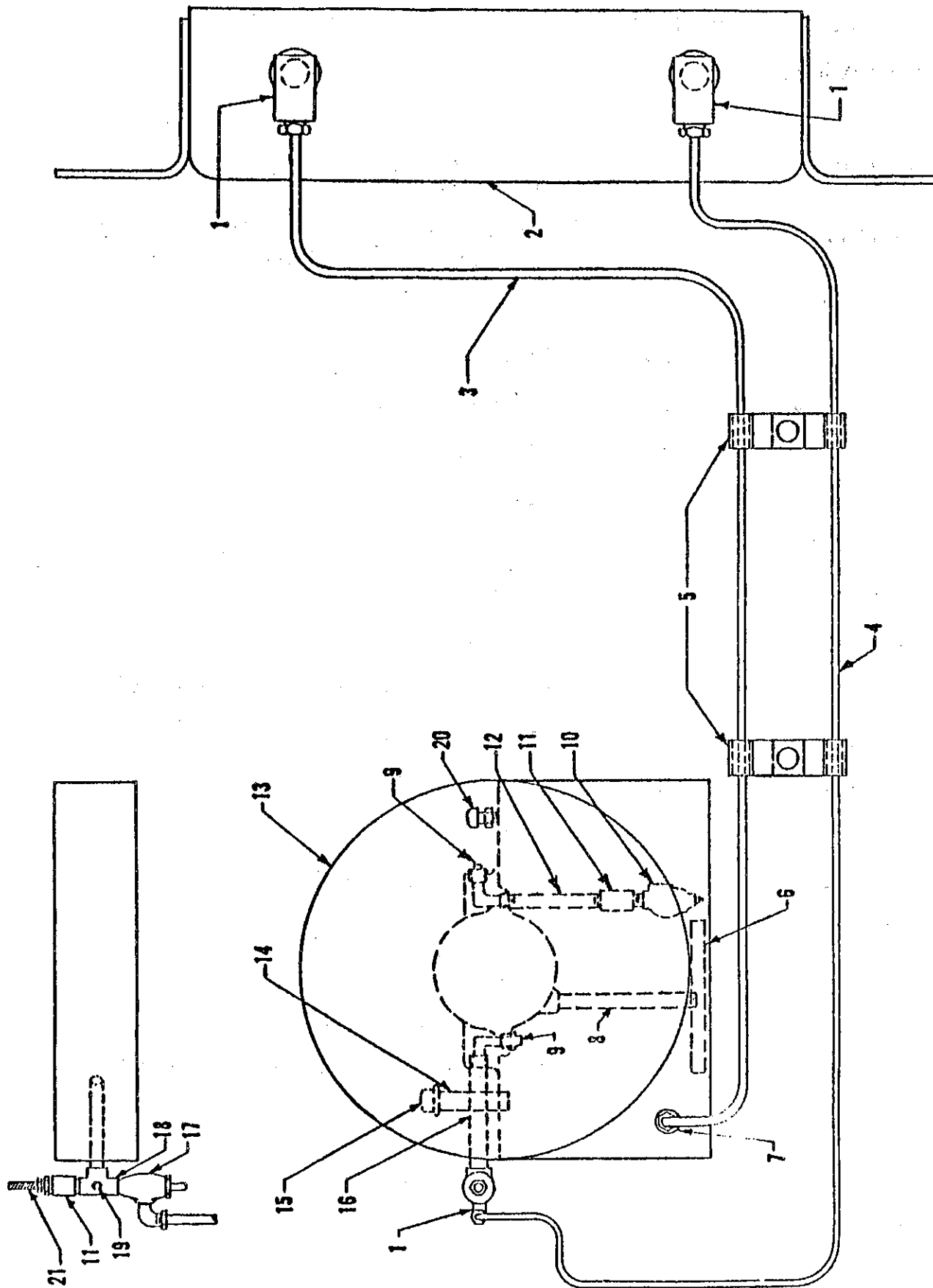
BORG AND BECK TORQUE CONVERTER
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY		DESCRIPTION
		Ford 332	IHCo. UB-264 & UD-282	
1	HCF-7756	1	1	TORQUE CONVERTER ASSEMBLY
2				BELL HOUSING, clutch (see separate page)
3	HC-282	1	1	SPACER
4	HC-338	1	1	HOUSING, converter
5	WR-88	1		ADAPTER
5A	HC-389		1	ADAPTER
6	HCF-9811	1	1	SHAFT, flanged
6A	311171	1	1	* BALL BEARING (on Ref. No. 6)
6B	194314	1	1	* SEAL (on Ref. No. 6)
6C	ASF-3278	1	1	* SNAP RING, small (for bearing on Ref. No. 6)
6D	HCF-4280	1	1	* SNAP RING, large (for bearing on Ref. No. 6)
6E	HC-289	1	1	* CAP, bearing (on Ref. No. 6)
6F	HCF-4275	1	1	* GASKET (for Ref. No. 6E)
6G	RGF-3698	6	6	* BOLT (for Ref. No. 6E)
7	HCF-5057	1	1	PUMP, oil
8	WRF-1084	1	1	GASKET, oil pump
9	HCF-4810	2	2	BOLT, pump (2" long)
10	HCF-4829	2	2	BOLT, pump (1-3/4" long)
11	WRF-1609-1	4	4	WASHER, pump bolt
12	HCF-5234	1	1	COVER
13	WRF-1087	1	1	GASKET
14	HCF-6908		9	PLATE, drive (three each together)
15	HCF-5928		6	STUD
16	WRF-1220		9	BOLT
17	HCF-6639		15	SPACER
18	914002		15	NUT, luglock
19	HCF-4277	1		FLANGE, pilot
20	HCF-4281	6		BOLT (for Ref. No. 19)
21	HCF-4271	1		PLATE, drive
22	WRF-1609-2	6	6	WASHER (has rubber insert)
23	PGF-10901	6	6	WASHER (all steel)
24	810004	1	1	PIPE PLUG (3/4" - 1 1/4 NPT)
25	071002	1	1	SEAL (inside and part of Ref. No. 7)
26	HCF-7988		1	SPACER
27	HCF-8029		6	BOLT (for Ref. No. 26)
28	PGF-9738		2	WIRE, locking
29	HCF-7987		1	PLATE, drive

Note: * Not illustrated.

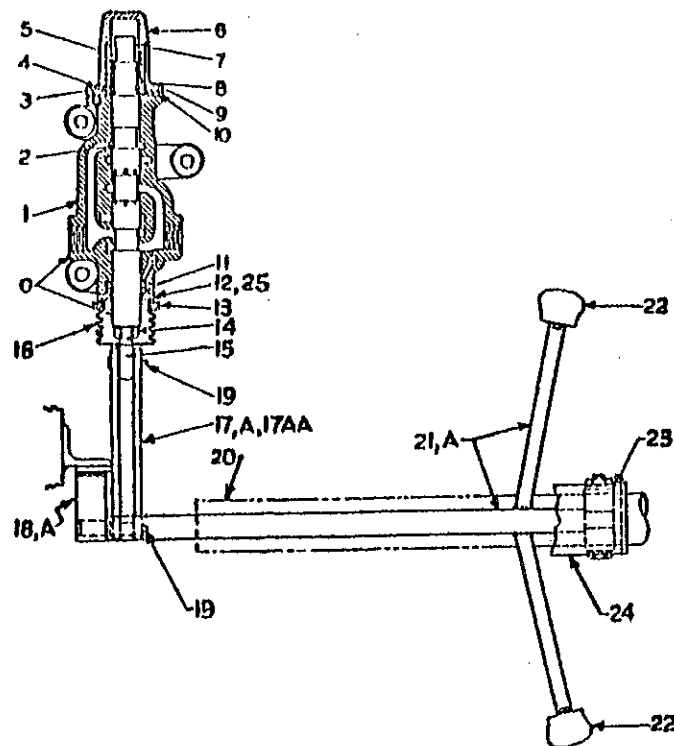
(For Part Numbers,
see next page)

BORG AND BECK TORQUE CONVERTER COOLING SYSTEM
(For Ford 332, and IHC Co. UB-264 and JD-282 Engines)



BORG AND BECK TORQUE CONVERTER COOLING SYSTEM
(For illustration, see preceding page)

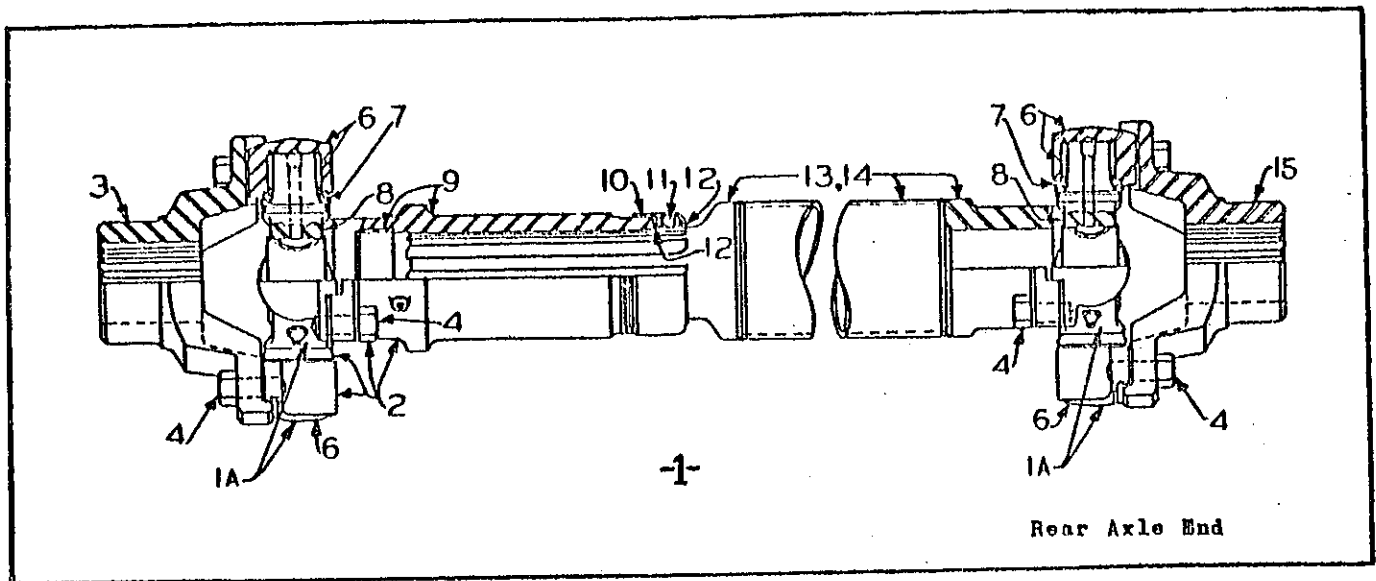
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-10144-15	3	ELBOW - 90°
2			RADIATOR (see separate listings)
3	HCF-5316	1	TUBE (includes two PGF-9497-6 nuts and two PGF-9496-6 sleeves)
4	HCF-6438	1	TUBE (includes two PGF-9497-6 nuts and two PGF-9496-6 sleeves)
5	PGF-11604	4	CLIP
6	WRF-1184	1	SCREEN
7	PGF-10143-16	1	CONNECTOR, male
8	HCF-5506	1	PIPE, suction
9	810003	2	PLUG, pipe
10	WRF-1150	1	VALVE, relief (50 PSI)
11	525004	2	COUPLING, pipe
12	530152	1	NIPPLE, pipe
13			TORQUE CONVERTER (see separate page)
14	WRF-1152	1	TUBE, breather
15	WRF-1153	1	BREATHER
16	530159	1	NIPPLE, pipe
17	HCF-4691	1	VALVE, relief (30 PSI)
18	HCF-6420	1	TEE
19	810001	1	PLUG, pipe
20	HCF-6418	1	PLUG, vent
21			GAUGE, oil heat (see instrument page)



REAR AXLE STEERING VALVE AND CONTROLS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-327	1	VALVE BODY WITH SPOOL (includes Ref. 1 and 2)
1		1	* BODY
2		1	* SPOOL
3	HCF-373	4	WASHER
4	819133	4	CAPSCREW, hex-socket head
5	PGF-8775	1	SPRING
6	AS-1010	1	CAP
7	PGF-8780	1	WASHER
8	PGF-8781	1	SLEEVE
9	PGF-8785	1	WASHER
10	ASF-5105	1	GASKET
11	HCF-5980	2	SEAL, oil
12	HCF-2062	1	COVER, valve
13	WRF-1944	1	CAP, boot
14	733004	1	NUT, jam
15	HCF-217	1	EYEBOLT
16	SPF-1400	1	BOOT
17	HCF-6941	2	LINK (order Ref. 17A and 17AA)
17A	HCF-11149	1	ROD (cranes 410-2892 and up)
17AA	782005	2	YOKE for Ref. 17A
18	HCF-6935	1	SUPPORT, control lever
18A	HCF-8363	1	SUPPORT, control lever (cranes 410-450 and up)
19	783005	2	PIN
20			FRONT STEER COLUMN (see separate page)
21	HCF-6931	1	LEVER, rear steer control
21A	HCF-8368	1	LEVER, rear steer control (cranes 410-450 & up)
22	PG-1400	2	BALL, control lever
23	HCF-6942	1	BRACKET
24	HCF-3052	1	SUPPORT, front steer column
25	HCF-10503	1	GASKET, valve cover

Note: * Parts not sold separately. Order Ref. 0, HCU-327 valve body with spool, from your nearest BLH Austin-Western Distributor.



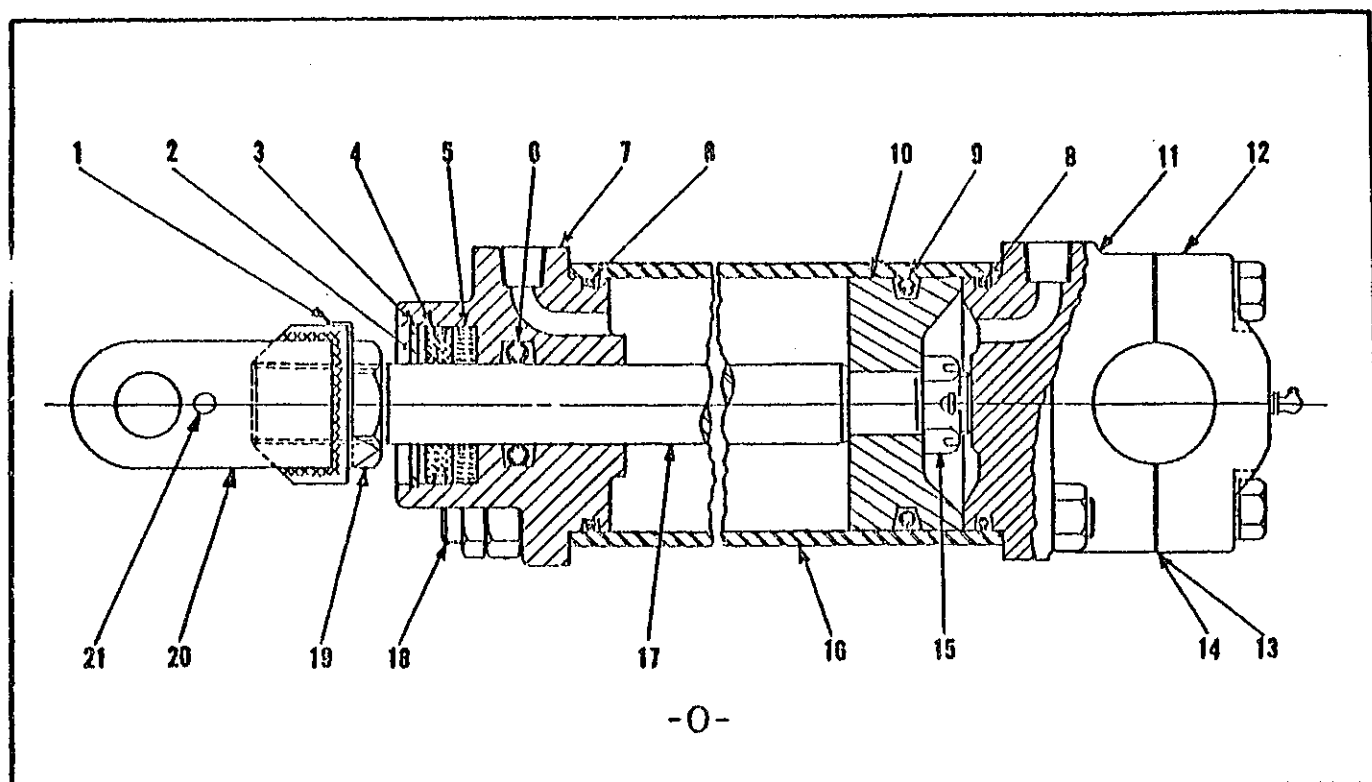
REAR AXLE PROPELLER SHAFT (4-WHEEL DRIVE)
(used with either Single or Two Speed Transfer Case)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2833	1	PROPELLER SHAFT, complete
1A	PGF-8807-57	2	SPIDER AND BEARING GROUP (includes Ref. Nos. 6,7 and 8 assembled)
2	465130	1	JOINT GROUP (includes Ref. Nos. 4 to 12 inclusive)
3	HCF-2833-56	1	YOKE, fitting
4	PGF-9717-55	16	CAPSCREW
6		8	BEARING GROUP (not sold separately. Order Ref. No. 1A)
7	465149	8	WASHER, cork, trunnion
8		2	SPIDER GROUP (not sold separately. Order Ref. No. 1A)
9	465118	1	SLIP YOKE, with dust cup
10	465013	1	RETAINER, felt
11	465017	1	WASHER, felt
12	465018	2	WASHER, felt retainer
13	465156	1	PROPELLER TUBE AND JOINT GROUP (includes Ref. Nos. 4,6,7,8 and 14)
14	465157	1	PROPELLER TUBE GROUP
15	PGF-8537-58	1	YOKE, fitting

C

C

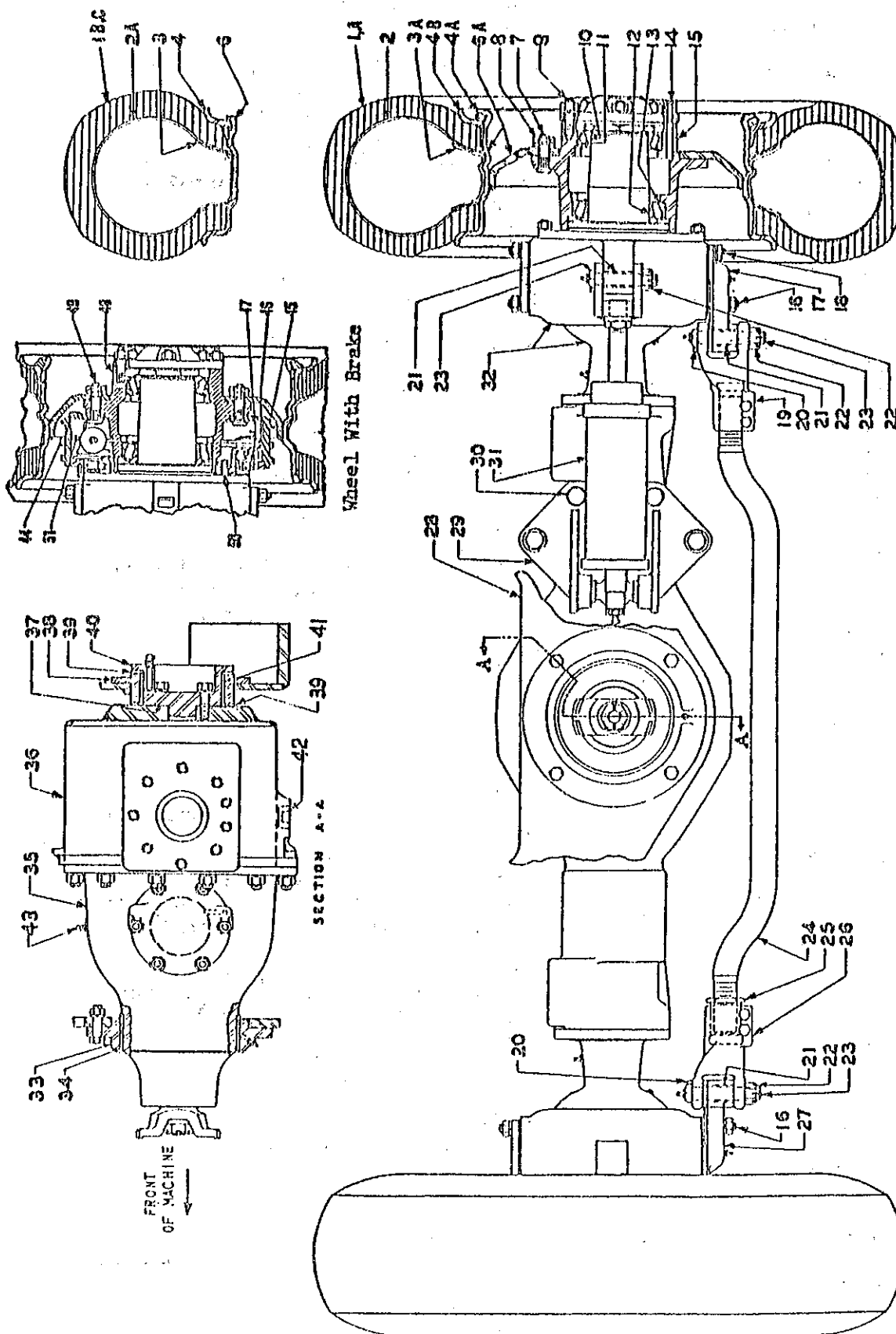
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REAR AXLE STEERING RAM (O-RING TYPE PISTON)
(Driving Rear Axle)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1178A	1	STEERING RAM GROUP (includes Ref. Nos. 1 to 21 inclusive)
1	HCF-3819	1	PLATE, lock
2	PGF-13171	1	WASHER
3	PGF-4515	1	RING, snap
4	PGF-7026	1	WIPER
5	PGF-7022	1	FELT
6	PGF-9648-27	1	O-RING
7	HC-502	1	HEAD
8	PGF-9648-1	2	O-RING
9	PGF-9648-11	1	O-RING
10	HC-501	1	PISTON
11	HC-503	1	BASE
12	PGF-9487	1	CAP, ball
13	MGF-1992	4	SHIM, ball cap (.024)
14	PGF-11856	4	SHIM, ball cap (.010)
15	HCF-9117-5	1	NUT, slotted
16	HCF-7346	1	CYLINDER
17	HCF-10023	1	ROD, piston
18	HCF-7348	4	ROD, tie
19	726013	1	NUT, jam
20	HCF-2850	1	YOKE
21	PGF-13270	1	PIN, fork





REAR AXLE AND SUPPORT, WHEELS AND TIRES
(Driving Axle)
(With or Without Brakes)

Wheel Without Brake
(For Part Numbers,
see next page)

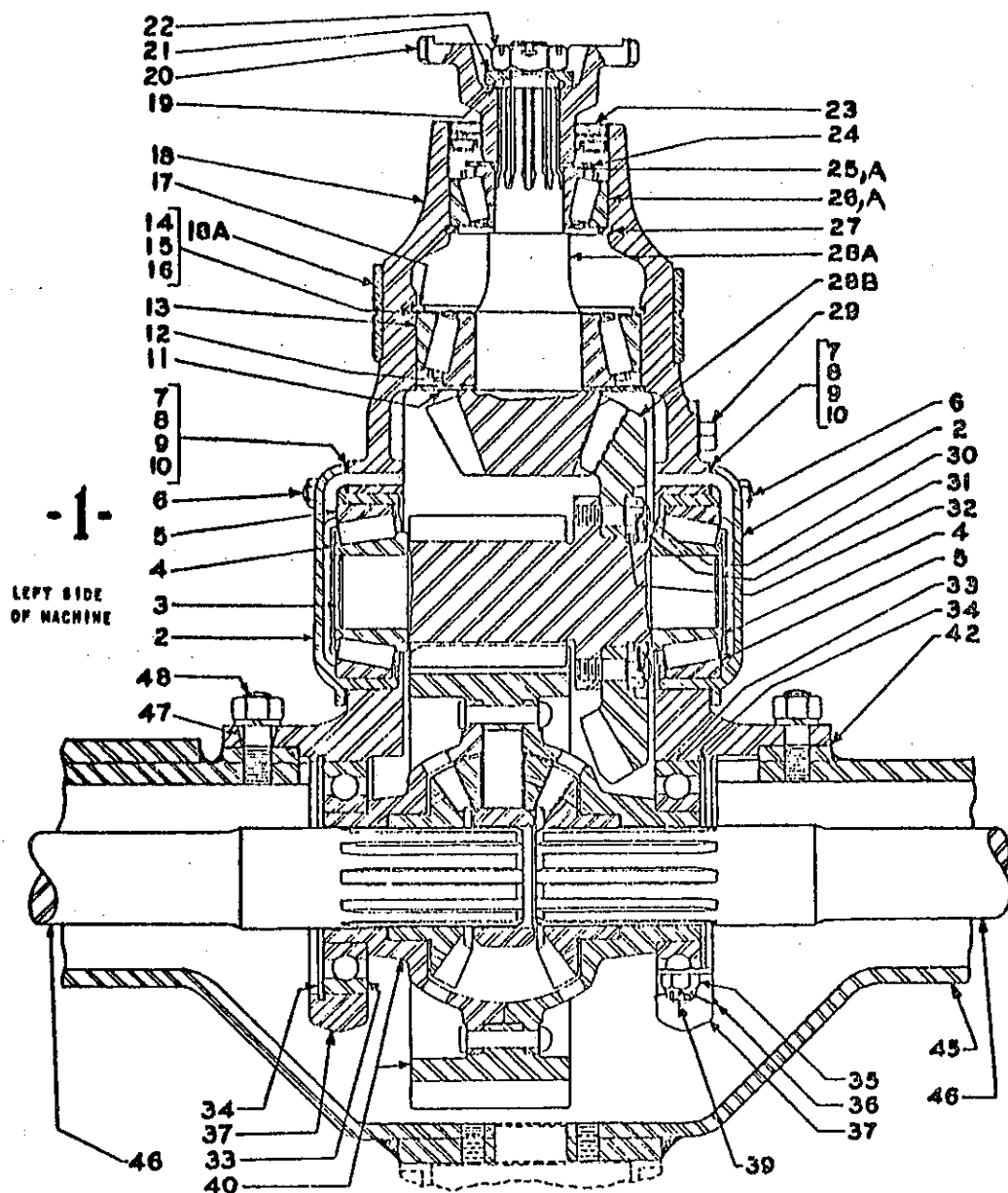
REAR AXLE AND SUPPORT, WHEELS AND TIRES
(Driving Axle - With or Without Brakes)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-15489-32	2	TIRE - 14.00 x 24 - 16 ply (Goodyear Sure Grip)
1A	PGF-15489-33	2	TIRE - 14.00 x 24 - 16 ply (Firestone Super Ground Grip)
1B	PGF-9860-22	2	TIRE - 16.00 x 20 - 14 ply (Goodyear All Weather)
1C	PGF-9860-21	2	TIRE - 16.00 x 20 - 14 ply (Goodyear Sure Grip)
2	PGF-9859-29	2	TUBE - 14.00 x 24 with TR-220 valve
2A	PGF-9859-6	2	TUBE - 16.00 x 20 with TR-220 valve
3	PGF-10471	2	FLAP, tire (16.00 tire)
3A	HCF-7023	2	FLAP, tire (14.00 tire)
4	PGF-12992	4	RING, side (16.00 tire)
4A	PGF-16693	2	RING, lock (14.00 tire)
4B	PGF-16694	2	RING, side (14.00 tire)
6	HCF-7424	2	WHEEL WITH RIM (16.00 tire)
6A	HCF-7015	2	WHEEL WITH RIM (14.00 tire)
7	HCF-10728	20	STUD, wheel
8	PGF-7357	20	NUT, wheel stud
9	PGF-8498	16	STUD
10	312814	2	CONE AND ROLLERS, bearing
11	313366	2	CUP, bearing
12	312854	2	CONE AND ROLLERS, bearing
13	313388	2	CUP, bearing
14	811000	2	PLUG, pipe, slotted
15	PG-2168	2	HUB, wheel
16			STUD
17			STEERING ARM, left hand
18			STUD
19	PG-2212	1	FORK
20	PGF-13270	2	PIN, fork
21	PGF-8753	3	BUSHING
22	737010	3	NUT, slotted
23	PGF-8757	3	BOLT, fork
24	HCF-2752	1	ROD, tie
25	PGF-3955	1	NUT, adjusting
26	PG-2211	1	FORK
27			STEERING ARM, right hand (see separate page)
28		1	MAINFRAME
29	HCF-2840	1	SUPPORT, rear steer ram
30	766015	2	WASHER, lock, external teeth
31			REAR STEER RAM GROUP
32			REAR AXLE STEERING KNUCKLE
33	HC-A-250	1	COLLAR, front support
34			BUSHING, front pivot
35			GEAR CARRIER, rear axle
36			HOUSING, rear axle
37	HCF-3157	1	GASKET
38	HC-393	1	COLLAR, rear support
39	HCF-6681	2	WASHER, rear pivot
40	HC-392	1	SUPPORT, rear
41	HCF-7403	1	BUSHING, rear pivot
42	812006	1	PLUG, drain, countersunk head
43	HCF-6418	1	PLUG, gear carrier vent
44	HCF-2769	4	PLUG, brake drum
45	HC-362	2	DRUM, brake
46	HC-234	2	PLATE, backing
47			HYDRAULIC BRAKE GROUP (see separate page)
48	HC-232	2	HUB, wheel
49	HCF-8302	20	STUD, wheel
50	BTF-890	18	STUD, backing plate
51			WHEEL CYLINDER GROUP (see separate page)

(see steering
knuckle
page)

(see separate
page)

(see
gear carrier
page)



(For Part Numbers,
see next page)

REAR AXLE GEAR CARRIER
(Driving Axle)

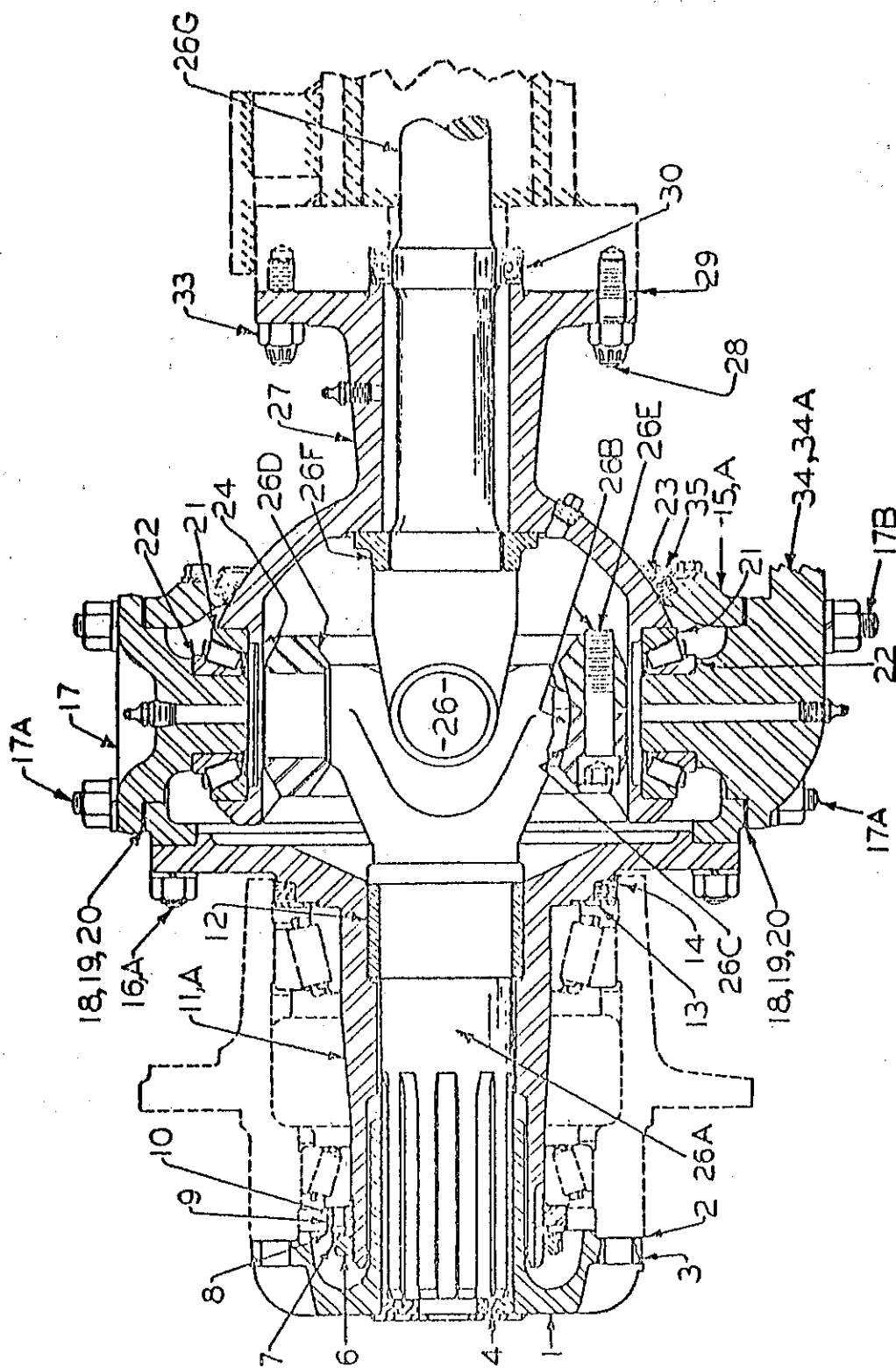
REAR AXLE GEAR CARRIER
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCU-9260-A	1	REAR AXLE GEAR CARRIER GROUP (includes Ref. Nos. 2 to 41 inclusive)
2	PGF-15068	2	BEARING CAP WITH CUP (includes Ref. No.5)
3	HCF-8511	1	PINION AND HUB
4	312547	2	CONE AND ROLLERS, bearing
5	313208	2	CUP, bearing
6	PGF-15052	12	STUD
7	PGF-15379	4	GASKET
8	PGF-12789	As req'd	SHIM (.005)
9	PGF-12790	As req'd	SHIM (.007)
10	PGF-12791	As req'd	SHIM (.020)
11	PGF-12610	1	RETAINER, oil
12	312564	1	CONE AND ROLLERS, bearing
13	313213	1	CUP, bearing
14	PGF-12608	As req'd	SHIM (.005)
15	PGF-12607	As req'd	SHIM (.007)
16	PGF-12609	As req'd	SHIM (.020)
17	PGF-12595	1	RING, snap
18	HCPS-374A	1	GEAR CARRIER (includes Ref. Nos. 18A, 35, 37 and 39)
18A	HCF-7403	2	BUSHING, front pivot
19	HCF-2108	1	WASHER, felt
20	PGF-8537-58	1	YOKE, fitting
21	HCF-2107	1	RETAINER, felt
22	PGF-15388	1	NUT, slotted
23	PGF-12863	1	SEAL, oil
24	PGF-4852	1	WASHER, spline shaft
25	312863	1	CONE AND ROLLERS, bearing (order Ref. Nos. 25A and 26A)
25A	319027	1	CONE AND ROLLERS, bearing
26	313393	1	CUP, bearing (order Ref. Nos. 25A and 26A)
26A	313471	1	CUP, bearing
27	PGF-12862	1	RING, snap
28A	PGF-13711	1	* PINION AND SHAFT
28B	PGF-13711	1	* GEAR, spiral bevel
29	810004	1	PLUG, pipe
30	PGF-13709	9	STUD
31	PGF-9436	1	WIRE, locking
32	734007	9	NUT, slotted
33	311340	2	BEARING, ball, differential hub
34	PGF-12594	2	WASHER, differential bearing
35	727007	4	NUT, castellated
36	PGF-9486	2	WIRE, locking
37		2	@ CAP, bearing
39	PGF-13739	4	STUD
40	PGF-12771	1	# DIFFERENTIAL GROUP
41	HCF-6418	1	PLUG, gear carrier vent, top (not shown)
42	HCFB-2871	1	GASKET
45	HCF-7268	1	HOUSING, rear axle
46	PGF-14723	2	SHAFT, drive
47	HCF-2873	1	BUSHING, taper
48	HCF-599	12	STUD

Note: * Bevel pinion and bevel gear sold in matched sets only.

@ Bearing caps not sold separately. Order Ref. 18, HCPS-374A complete gear carrier casting.

Differential repair parts not sold separately. Order complete differential group.



(For Part Numbers,
see next page)

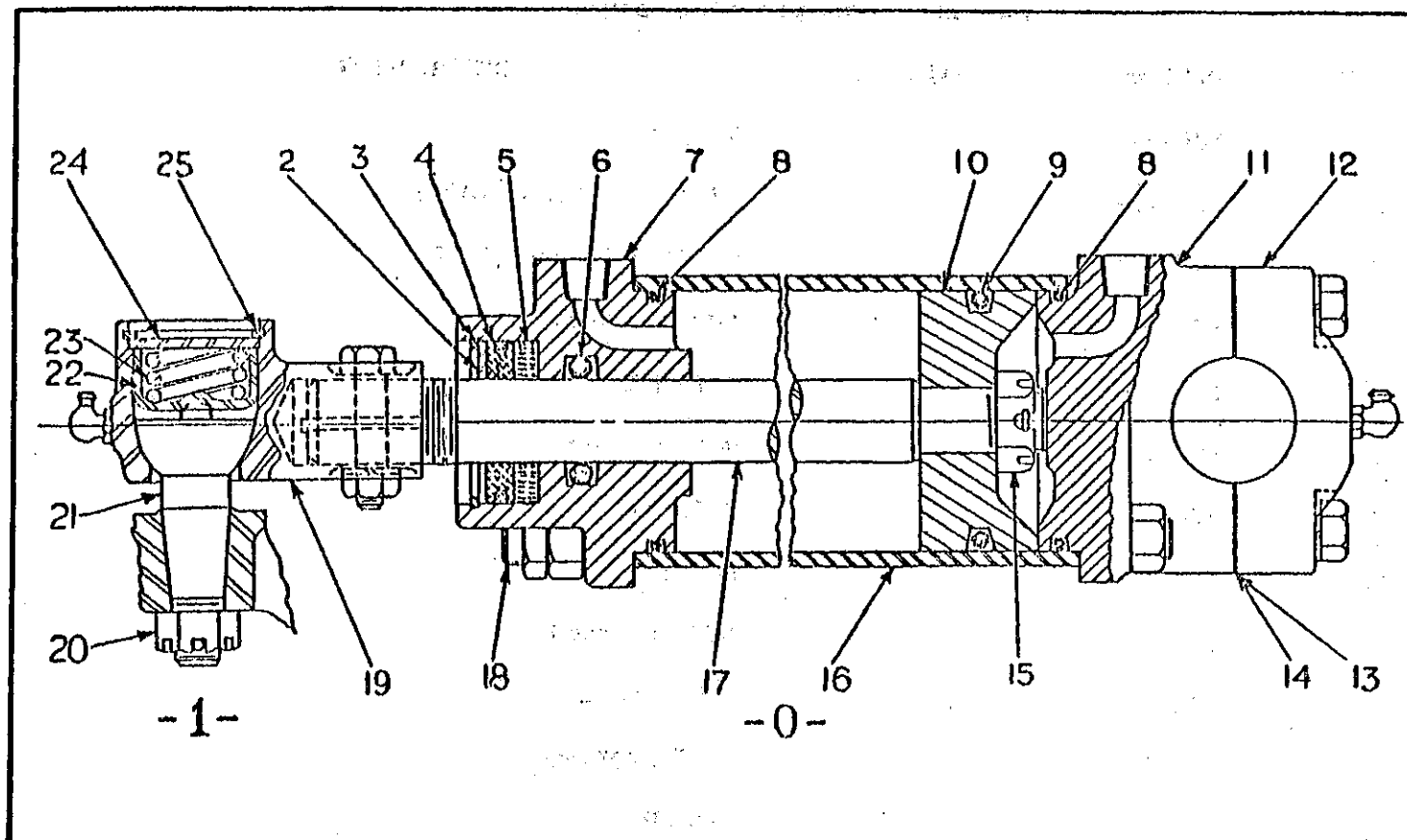
REAR AXLE STEERING KNUCKLE AND UNIVERSAL JOINT
(Driving Axle)

REAR AXLE STEERING KNUCKLE AND UNIVERSAL JOINT
(Driving Axle)

(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9377	1	HUB, driving
2	PGF-3186	1	GASKET
3	PGF-3610	4	BUSHING, dowel
4	PGF-7012	1	FELT
6	PGF-5436	1	NUT, lock
7	PGF-5439	1	WASHER, lock
8	PGF-5438	1	WASHER
9	PGU-5437	1	NUT, adjusting - with pin (includes Ref. No. 10)
10	PGF-3677	1	PIN, adjusting nut
11	PGF-5433	1	SPINDLE (for wheels without brakes)
11A	HCF-2718	1	SPINDLE (for wheels with brakes)
12	PGF-5591	1	BUSHING
13	PGF-4358	1	WASHER
14	PGF-4360	1	FELT
15	HCP-387	1	FLANGE, L.H., knuckle - with PGF-8753 bushing
15A	HC-388	1	FLANGE, R.H., knuckle
16	PGF-4361	-	STUD (12 for Ref. No. 11, and 8 for Ref. No. 11A) (2-1/8" long)
16A	HCF-2757	3	STUD (for Ref. No. 11A) (1-3/4" long)
17	PGF-4341	1	CAP, steer bearing
17A	PGF-4350	7	STUD
17B	PGF-10817	1	STUD
18	PGF-4345	As req'd	SHIM (.005)
19	PGF-4346	As req'd	SHIM (.007)
20	PGF-4347	As req'd	SHIM (.020)
21	313380	2	CUP, bearing
22	312836	2	CONE AND ROLLERS, bearing
23	PGF-4362	1	FELT
24	PGF-4339-2	1	RETAINER, grease
26	HCU-351	1	RING AND SHAFT GROUP, bearing - (includes Ref. Nos. 26A, B, F and G)
26A	PGF-11923	1	SHAFT, drive - short
26B	PGF-11927	1	RING GROUP (includes Ref. Nos. 26C, D and E)
26C		1	* RING (male) (not sold separately. Order Ref. No. 26B)
26D		1	* RING (female) (not sold separately. Order Ref. No. 26B)
26E	PGF-12612	8	CAPSCREW, hollow head
26F	PG-2123	1	RETAINER, axle
26G	PGF-14723	1	SHAFT, drive - long
27	HCF-8781	1	SOCKET, trunnion
28	PGF-15888	9	STUD
29	HCF-6680	1	GASKET
30	194206	1	SEAL, oil
33	914008	9	NUT, huglock
34	HC-368	1	STEERING ARM, right hand
34A	HC-189	1	STEERING ARM, left hand
35	HCF-6596	1	PLATE, flange

Note: * Sold in pairs only.



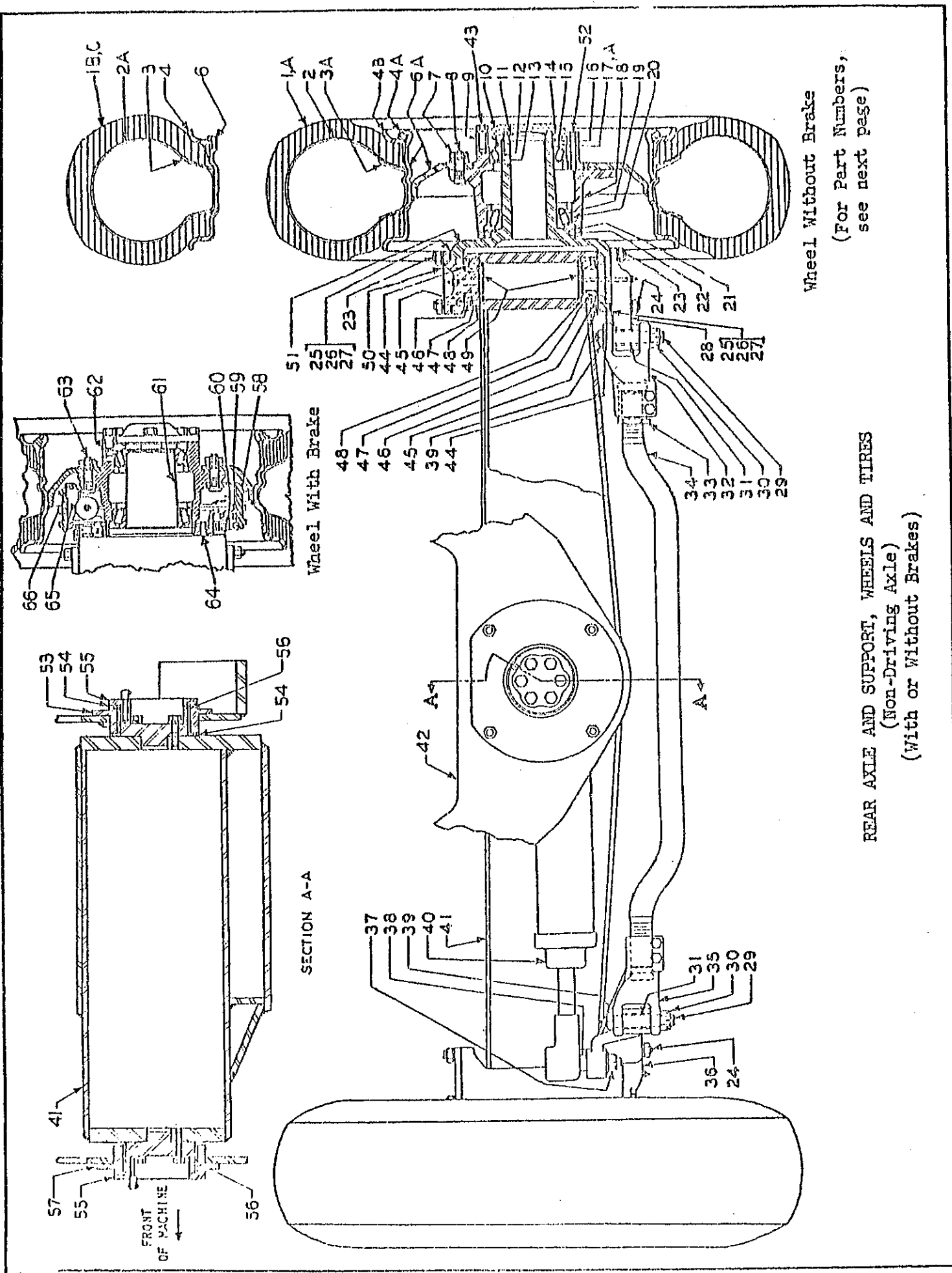
REAR AXLE STEERING RAM
(Non-Driving Rear Axle)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1270	1	STEERING RAM GROUP (includes Ref. Nos. 2 to 25 inclusive)
1	PGU-9163	1	SOCKET GROUP (includes Ref. Nos. 19 to 25 inclusive)
2	PGF-13171	1	WASHER
3	PGF-4515	1	RING, snap
4	PGF-7026	1	WIPER
5	PGF-7022	1	FELT
6	PGF-9648-27	1	O-RING
7	HC-502	1	HEAD
8	PGF-9648-1	2	O-RING
9	PGF-9648-11	1	O-RING
10	HC-501	1	PISTON
11	HC-503	1	BASE

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
12	PGF-9487	1	CAP, ball
13	MGF-1992	4	SHIM, ball cap (.024)
14	PGF-11856	4	SHIM, ball cap (.010)
15	HCF-9117-5	1	NUT, slotted
16	HCF-7346	1	CYLINDER
17	HCF-10023	1	ROD, piston
18	HCF-7348	4	ROD, tie
19	PGF-4256	1	SOCKET
20	734010	1	NUT, slotted
21	PGF-4257	1	STUD, ball
22	PGF-4258	1	SEAT, spring
23	PGF-4259	1	SPRING
24	PGF-4261	1	PLUG
25	PGF-4260	1	WIRE, lock



Wheel Without Brake

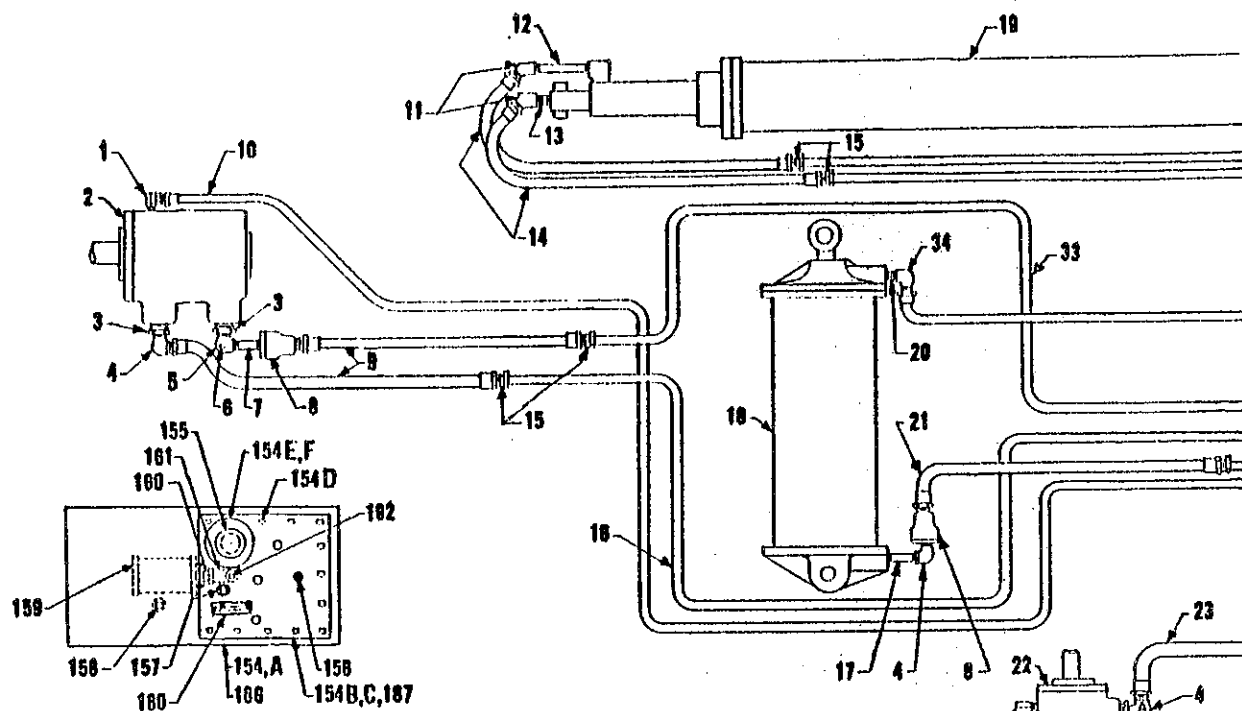
(For Part Numbers, see next page)

REAR AXLE AND SUPPORT, WHEELS AND TIRES
(Non-Driving Axle)
(With or Without Brakes)

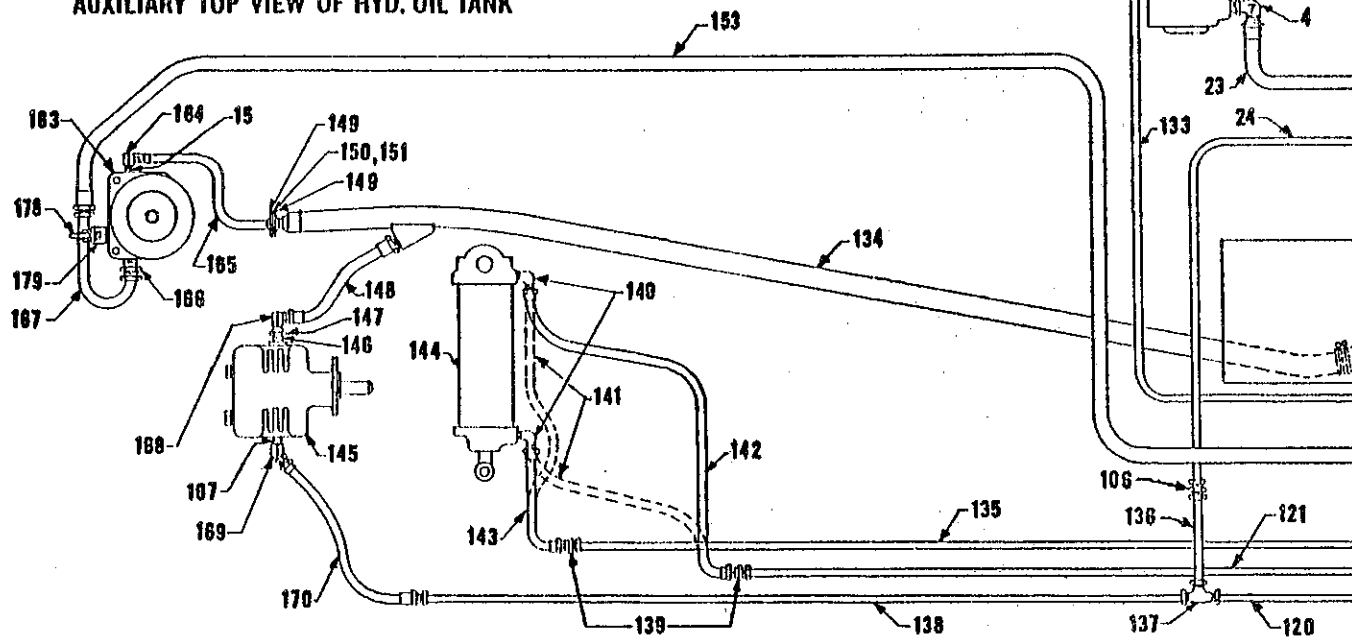
REAR AXLE AND SUPPORT, WHEELS AND TIRES
(Non-Driving Axle - With or Without Brakes)
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-15489-32	2	TIRE - 14.00 x 24 - 16 ply (Goodyear Sure Grip)
1A	PGF-15489-33	2	TIRE - 14.00 x 24 - 16 ply (Firestone Super Ground Grip)
1B	PGF-9860-22	2	TIRE - 16.00 x 20 - 14 ply (Goodyear All Weather)
1C	PGF-9860-21	2	TIRE - 16.00 x 20 - 14 ply (Goodyear Sure Grip)
2	PGF-9859-29	2	TUBE - 14.00 x 24 with TR-220 valve
2A	PGF-9859-6	2	TUBE - 16.00 x 20 with TR-220 valve
3	PGF-10471	2	FLAP, tire (16.00 tire)
3A	HCF-7023	2	FLAP, tire (14.00 tire)
4	PGF-12992	4	RING, side (16.00 tire)
4A	PGF-16693	2	RING, lock (14.00 tire)
4B	PGF-16694	2	RING, side (14.00 tire)
6	HCF-7424	2	WHEEL WITH RIM (16.00 tire)
6A	HCF-7015	2	WHEEL WITH RIM (14.00 tire)
7	PGF-7357	20	NUT, wheel stud
8	HCF-10728	20	STUD, wheel
9	PGF-3186	2	WASHER
10	HC-205	2	CAP, hub
11	164064	2	PLUG, expansion
12	312814	2	CONE AND ROLLERS, bearing
13	313366	2	CUP, bearing
14	PGF-5436	2	NUT, lock
15	PGF-5439	2	WASHER, lock
16	PGF-5438	2	WASHER
17	PGU-5437	2	ADJUSTING NUT WITH PIN (incl. Ref. No. 17A)
17A	PGF-3677	2	PIN, adjusting nut
18	PG-2168	2	HUB, wheel
19	312854	2	CONE AND ROLLERS, bearing
20	313388	2	CUP, bearing
21	PGF-4358	2	WASHER
22	PGF-4360	2	FELT
23	PGF-4350	14	STUD
24	PGF-10817	2	STUD
25	PGF-4345	As req'd	SHIM (.005)
26	PGF-4346	As req'd	SHIM (.007)
27	PGF-4347	As req'd	SHIM (.020)
28	HC-189	1	ARM, left hand, steering
29	PGF-8757	2	BOLT, fork
30	737010	2	NUT, slotted
31	PGF-8753	2	BUSHING, steering arm
32	PG-2211	1	FORK
33	PGF-3955	1	NUT, adjusting
34	HCF-2752	1	ROD, tie
35	PG-2212	1	FORK
36	HC-190	1	ARM, right hand, steering
37			NUT, slotted (see separate
38			STUD, ball) page)
39	PGF-13270	2	PIN, fork
40			REAR STEER ARM GROUP (see separate page)
41	HCF-7342	1	AXLE, rear (welded unit)
42		1	MAINFRAME
43	741788	16	BOLT
44	HCF-1987	4	WASHER, steering knuckle seal
45	HCF-2059	4	FELT, steering knuckle seal
46	HCF-2058	4	RETAINER, steering knuckle seal
47	312836	4	CONE AND ROLLERS, bearing
48	313380	4	CUP, bearing
49	PGF-4339-2	4	RETAINER, grease
50	PGF-4341	2	CAP, steer bearing
51	HC-496	2	KNUCKLE, steering
52	811000	2	PLUG, pipe, slotted
53	HC-393	1	COLLAR, rear support
54	HCF-6681	2	WASHER, rear pivot
55	HC-392	2	SUPPORT
56	HCF-7403	2	BUSHING
57	HC-539	1	COLLAR, front support
58	HC-362	2	DRUM, brake
59	HC-234	2	PLATE, backing
60			HYDRAULIC BRAKE GROUP (see separate page)
61	HC-508	2	KNUCKLE, steering
62	HC-232	2	HUB, wheel
63	HCF-8302	20	STUD, wheel
64	BTF-890	18	STUD, backing plate
65			WHEEL CYLINDER GROUP (see separate page)
66	HCF-2769	4	PLUG, brake drum

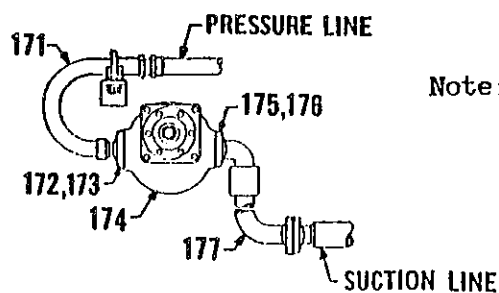




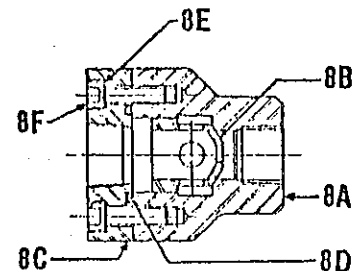
AUXILIARY TOP VIEW OF HYD. OIL TANK



FRONT OF MACHINE →



Note: For continuation of piping diagram, see opposite page.

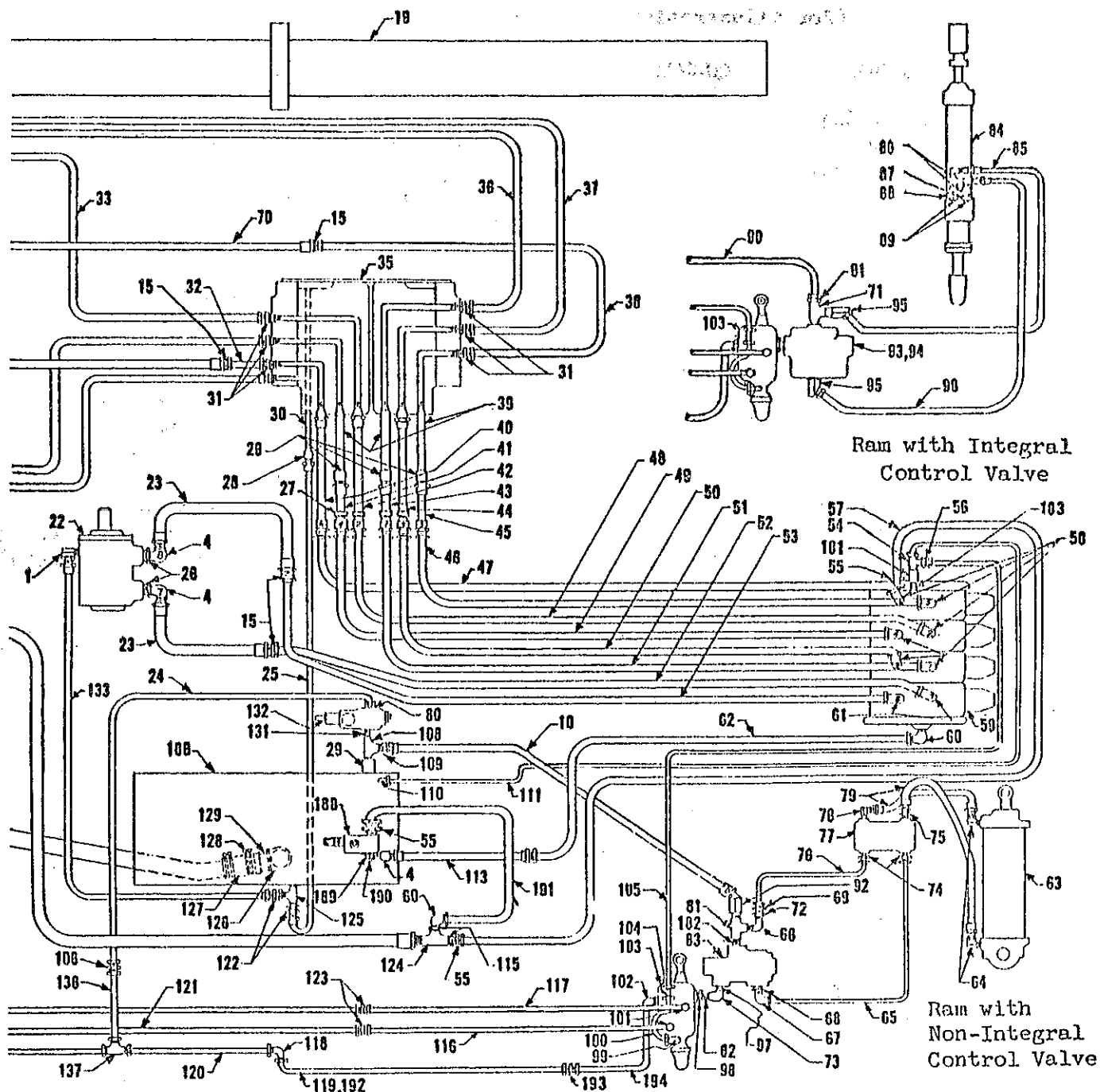


- 8 -

Restrictor Valve Assembly

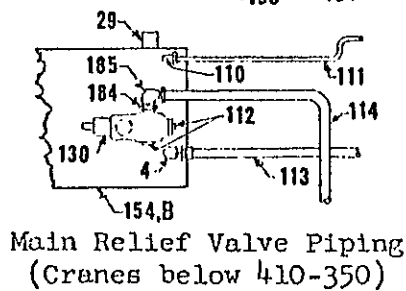
Piping for Special Order
73 gallon Pump

HYDRAULIC PIPING DIAGRAM



Note: For continuation
of piping diagram,
see opposite page.

B,C,F,G,J,L,N,P,R,T A,D,E,H,K,M,Q,S
Tube End Fittings



Note: For additional hyd-
raulic hose data
see Page K-2.10

(For Part Numbers,
see next page)

HYDRAULIC PIPING DIAGRAM
(Booster Steer Ram (with Integral Control Valve) used on Serial Numbers
410-100 to 410-193 Inclusive)
(Booster Steer Ram (with Non-Integral Control Valve) used from Serial
Number 410-200)

HYDRAULIC PIPING DETAILS
(For illustrations, see two preceding pages)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
A	PGF-9496-3		SLEEVE, coupling (for 1/4" OD tube)
B	PGF-9497-3		NUT, coupling (5/8" hex) (for 1/4" OD tube)
C	PGF-10152-4		NUT, coupling (3/4" hex) (for 1/4" OD tube)
D	PGF-9496-5		SLEEVE, coupling (for Ref. F) (for 3/8" OD tube)
E	HCF-7705-5		SLEEVE, coupling (for Ref. G) (for 3/8" OD tube)
F	PGF-9497-5		NUT, coupling (5/8"-18 thd) (for 3/8" OD tube)
G	HCF-7597-5		NUT, coupling (9/16"-18 thd) (for 3/8" OD tube)
H	PGF-9496-7		SLEEVE, coupling (for 5/8" OD tube)
J	PGF-9497-7		NUT, coupling (for 5/8" OD tube)
K	PGF-9496-8		SLEEVE, coupling (for 3/4" OD tube)
L	PGF-9497-8		NUT, coupling (for 3/4" OD tube)
M	PGF-9496-10		SLEEVE, coupling (for 1" OD tube)
N	PGF-9497-10		NUT, coupling (1-1/2" hex) (for 1" OD tube)
P	PGF-10152-26		NUT, coupling (1-3/4" hex) (for 1" OD tube)
Q	PGF-9496-11		SLEEVE, coupling (for 1-1/8" OD tube)
R	PGF-9497-11		NUT, coupling (for 1-1/8" OD tube)
S	PGF-9496-13		SLEEVE, coupling (for 1-1/2" OD tube)
T	PGF-9497-13		NUT, coupling (for 1-1/2" OD tube)
1	PGF-12282-5	2	COUPLING
2			CABLE HOIST MOTOR (see separate page)
3	HCF-1947	2	BUSHING, reducer
4	HCF-1598-6	5	ELBOW, street
5	HCF-1821	1	ELBOW, street
6	HCF-2159	1	PLUG
7	HCF-1613	1	NIPPLE
8	HCU-241	2	RESTRICTOR VALVE (includes Ref. Nos. 8A to 8F inclusive)
8A	HCF-1370	1	BODY
8B	HCF-1371	1	SEAT
8C	HCF-1372	1	HEAD
8D	PGF-9648-8	1	O-RING
8E	770026	4	WASHER, lock, internal teeth
8F	822029	4	CAPSCREW, hex-socket head
9	HCF-7417	2	HOSE, hydraulic (53-1/2" overall length)
10	HCF-7400	2	HOSE, hydraulic (85" overall length)
11	HCF-5015-5	2	ELBOW
12	HCF-7285	1	NIPPLE
13	HCF-5815	1	NIPPLE
14	HCF-3338	2	HOSE, hydraulic (47-1/2" overall length)
15	PGF-10151-26	8	ADAPTER
16	HCF-7371	1	* TUBE (1" OD x 49-1/4")
17	HCF-1055	1	NIPPLE
18			BOOM LIFT RAM
19			BOOM CROWD RAM
20	HCF-2009	1	NIPPLE
21	HCF-2901	1	HOSE, hydraulic (37-1/2" overall length)

Note: Hydraulic hose dimensions given are overall lengths including end fittings.
* Includes two Ref. M, one Ref. N, and one Ref. P.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
22			DOOM SWING MOTOR (see separate page)
23	HCF-2900	2	HOSE, hydraulic (28-1/2" overall length)
24	HCF-7535	1	* TUBE (3/4" OD x 37-1/2")
25	HCF-2915	1	HOSE, hydraulic (67" overall length)
26	526020	2	BUSHING, reducer
27	HCF-3987	4	GUARD, hose
28	518021	1	COUPLING, reducer
29	525005	4	COUPLING
30	AJF-3329	1	NIPPLE
31	PGF-10143-10	6	CONNECTOR
32	HCF-7046	1	* TUBE (1" OD x 9")
33	HCF-7367	1	* TUBE (1" OD x 54")
34	HCF-1597-6	1	ELBOW
35			PIVOT POST SWIVEL VALVE (see separate page)
36	HCF-7410	1	* TUBE (1" OD x 57-7/8")
37	HCF-7411	1	* TUBE (1" OD x 61-1/4")
38	HCF-7045	1	* TUBE (1" OD x 21")
39	HCF-2407	3	NIPPLE
40	HCF-7393	1	HOSE, hydraulic (50" overall length)
41	HCF-7394	1	HOSE, hydraulic (46" overall length)
42	HCF-7396	1	HOSE, hydraulic (53" overall length)
43	HCF-7398	1	HOSE, hydraulic (43" overall length)
44	HCF-7395	1	HOSE, hydraulic (59" overall length)
45	HCF-7397	1	HOSE, hydraulic (43" overall length)
46	HCF-7073	1	@ TUBE (1" OD x 126-1/2")
47	HCF-7072	1	@ TUBE (1" OD x 125-1/2")
48	HCF-7014	1	@ TUBE (1" OD x 103-1/2")
49	HCF-7013	1	@ TUBE (1" OD x 99-1/2")
50	HCF-6899	1	@ TUBE (1" OD x 116-1/2")
51	HCF-7012	1	@ TUBE (1" OD x 118-1/2")
52	HCF-7075	1	* TUBE (1" OD x 124-3/4")
53	HCF-7074	1	* TUBE (1" OD x 125")
54	PGF-10146-5	1	TEE
55	PGF-10143-11	3	CONNECTOR
56	PGF-10151-4	1	ADAPTER
57	HCF-8282	1	* TUBE (1-1/8" OD x 84-1/8")
58	PGF-10144-10	6	ELBOW, 90°
59			CRANE CONTROL VALVE BANK (see separate page)
60	PGF-10144-11	2	ELBOW
61	PGF-10331-10	2	ELBOW, 45°
62	HCF-7542	1	* TUBE (1-1/8" OD x 115-7/8")
63			FRONT STEER BOOSTER RAM (see separate page)
64	PGF-12282-12	2	ELBOW, swivel
65	HCF-7613	1	TUBE (3/8" OD x 20-15/16") (includes one each of Ref. D, E, F and G)
66	HCF-1598-4	1	ELBOW, street
67	PGF-10144-5	1	ELBOW
68	934003	1	BUSHING, reducer
69	PGF-10143-5	1	CONNECTOR

Note: * Includes two Ref. M, one Ref. N, and one Ref. P.

* Includes two Ref. K, and two Ref. L.

@ Includes two Ref. M, and two Ref. N.

* Includes two Ref. Q, and two Ref. R.

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(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
70	HCF-3716	1	HOSE, hydraulic (42" overall length)
71	PGF-12292-3	1	TEE
72	934005	1	BUSHING, reducer
73	PGF-12289-3	1	ELBOW
74	HCF-7629-5	2	CONNECTOR (includes O-RING PGF-9648-77)
75	HCF-7659-5	1	ADAPTER (includes O-RING PGF-9648-77)
76	HCF-7614	1	TUBE (3/8" OD x 25-3/4") (includes one each of Ref. D, E, F and G)
77			STEERING GEAR VALVE (see separate page)
78	HCF-7630-3	1	ELBOW, swivel (includes O-RING PGF-9648-77)
79	HCF-7617	2	HOSE, hydraulic (43" overall length)
80	PGF-10143-8	1	CONNECTOR
81	PGF-12290-2	1	TEE
82	532139	1	NIPPLE
83	HCF-7593	1	VALVE, flow control
84			FRONT STEER BOOSTER RAM (see separate page)
85	HCF-4744	1	HOSE, hydraulic (27-1/2" overall length)
86	HCF-3877	2	ADAPTER, union swivel
87	HCF-3879	1	ADAPTER
88	HCF-3875	1	ADAPTER
89	PGF-9648-41	2	O-RING
90	HCF-7048	1	% TUBE (3/4" OD x 31")
91	PGF-10143-14	1	CONNECTOR
92	PGF-12287-4	1	CONNECTOR, swivel, 45°
93	HCF-4639	1	FLOW REGULATOR
94	HCF-4742	1	BRACKET, flow regulator (not shown)
95	PGF-12287-4	2	CONNECTOR, swivel, 45°
96	HCF-3944	1	HOSE, hydraulic (21-1/2" overall length)
97	532144	1	NIPPLE
98	947007	1	BUSHING, face
99	PGF-10144-3	1	ELBOW, 90° (not used with hydraulic outriggers shown on separate page)
100	HCF-2657	1	TUBE (1/4" OD x 5-1/4") (includes two Ref. A, and two Ref. B)
101	PGF-10143-7	2	CONNECTOR
102	PGF-10144-8	1	ELBOW
103			REAR STEER CONTROL VALVE (see separate page)
104	PGF-10147-3	1	TEE
105	HCF-7068	1	TUBE (1/4" OD x 28-1/4") (includes two Ref. A, one Ref. B, and one Ref. C)
106	PGF-9812-8	1	UNION, coupling
107	HCF-3459	1	NIPPLE
108	PGF-12292-4	1	TEE
109	934010	1	BUSHING, reducer
110	PGF-10144-5	1	ELBOW, 90°
111	HCF-7071	1	& TUBE (3/8" OD x 92")
112	HCF-6476	2	PLUG, pipe, countersunk head
113	HCF-7543	1	HOSE, hydraulic (15" overall length)
114	HCF-7047	1	φ TUBE (1-1/8" OD x 22-3/4")
115	934020	2	BUSHING, reducer

Note: % Includes two Ref. K, and two Ref. L.
& Includes two Ref. D, and two Ref. F.
φ Includes two Ref. Q, and two Ref. R.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
116	HCF-7404	1	\$ TUBE (5/8" OD x 29-1/8")
117	HCF-7402	1	\$ TUBE (5/8" OD x 28-3/4")
118	PGF-10161-8	1	ELBOW (not used with hydraulic outriggers shown on separate page)
119	HCF-7418	1	% TUBE (3/4" OD x 42-7/8") (cranes below 410-350)
120	HCF-7416	1	% TUBE (3/4" OD x 13-1/8") (not used with hydraulic outriggers shown on separate page)
121	HCF-7420	1	\$ TUBE (5/8" OD x 91-1/2")
122	HCF-1568-6	2	UNION, adapter
123	PGF-9812-7	2	UNION, coupling
124	HCF-1592-7	1	TEE
125	HCF-1596-3	1	TEE
126	563009	1	ELBOW, street, 90°
127	HCF-1537	1	HOSE (2-3/8" ID x 4")
128	034016	4	CLAMP, hose
129	HCF-1610	1	NIPPLE
130			CRANE MAIN RELIEF VALVE (see separate page)
131	532185	1	NIPPLE
132			STEERING AND OUTRIGGERS RELIEF VALVE (see separate page)
133	HCF-3131	1	HOSE, hydraulic (45" overall length)
134	HCF-8001	1	TUBE, suction
135	HCF-7414	1	\$ TUBE (5/8" OD x 93-3/8")
136	HCF-7528	1	% TUBE (3/4" OD x 27-11/16")
137	PGF-10185-8	1	TEE (not used with hydraulic outriggers shown on separate page)
138	HCF-7426	1	% TUBE (3/4" OD x 88-1/4")
139	PGF-10310-7	2	CONNECTOR
140	PGF-10104-4	2	ELBOW
141	HCF-2917	2	HOSE, hydraulic (23" overall length) (for driving rear axle)
142	HCF-3109	1	HOSE, hydraulic (21-1/2" overall length) (for non-driving rear axle)
143	HCF-2918	1	HOSE, hydraulic (29" overall length) (for non-driving rear axle)
144			REAR STEER RAM (see separate page)
145			STEERING AND OUTRIGGERS PUMP (see separate page)
146	532183	1	NIPPLE
147	534015	1	BUSHING, reducer
148	HCF-5322	1	HOSE, hydraulic (26-1/2" overall length)
149	HCF-5264-5	4	CLAMP, SAE split flange
150	HCF-5265-5	1	PLATE, connection
151	PGF-9648-61	2	O-RING (2-1/8" OD), split flange clamp
152	HCF-6240	1	NIPPLE
153	HCF-7337	1	HOSE, hydraulic (117-1/2" overall length)
154	HCF-5902	1	HYDRAULIC OIL TANK AND COVER GROUP (includes Ref. Nos. 154A to 154F inclusive)
154A		1	OIL TANK (welded)
154B	HCF-6467	1	COVER, tank

Note: % Includes two Ref. K, and two Ref. L.
\$ Includes two Ref. H, and two Ref. J.

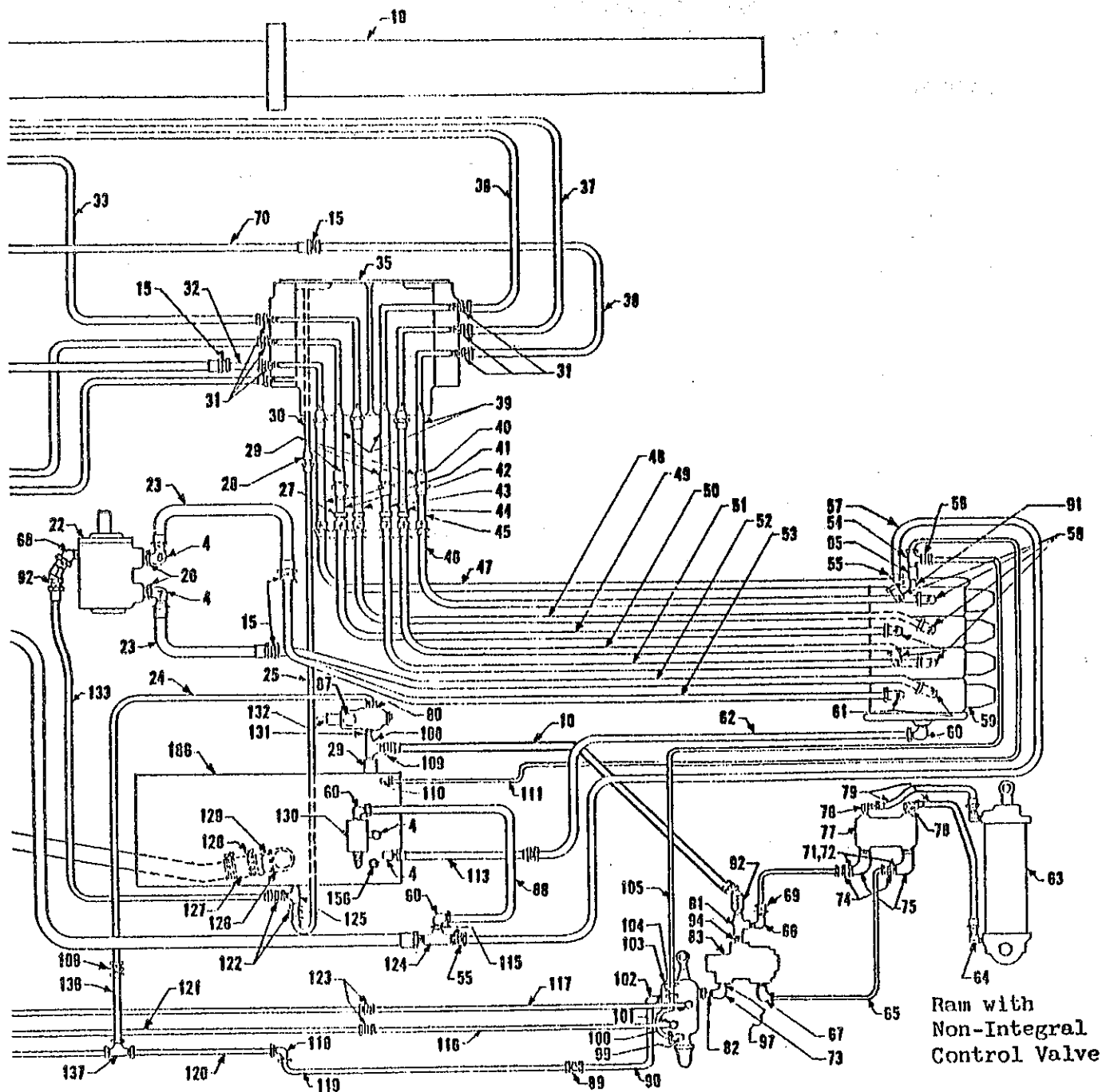
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
154C	HCF-4184	1	GASKET, tank cover
154D	HCF-1747-28	16	NUT, cage
154E	HCF-1352	1	SCREEN, filler
154F	HCF-296	1	GASKET, filler screen
155	PGF-9374	1	CAP, breather
156	810005	1	PLUG, pipe
157	HCF-1358	1	GAUGE, oil level
158	810001	1	PLUG, drain
159	HCF-5940	1	FILTER, oil
160	HCF-5938	1	ADAPTER, oil filter
161	522009	1	ELBOW, 90°, oil filter
162	532359	1	NIPPLE, oil filter
163			CRANE PUMP (regular - 48 gallon) (see separate page)
164	PGF-12286-10	1	ELBOW, swivel
165	HCF-5256	1	HOSE ASSEMBLY
166	PGF-10143-15	1	CONNECTOR
167	HCF-7805	1	TUBE (1-1/2" OD x 21") (includes two Ref. S, and two Ref. T)
168	HCF-1595-8	1	ELBOW, swivel, 90°
169	PGF-12288-2	1	ELBOW, swivel, 45°
170	HCF-7433	1	HOSE, hydraulic (30" overall length)
171	HCF-7804	1	ELBOW, 1-1/2" OD (includes one Ref. S, and one Ref. T)
172	HCF-5264-4	2	CLAMP, SAE split flange
173	PGF-9648-62	1	O-RING (1-3/4" OD), split flange clamp
174			CRANE PUMP (special - 73 gallon) (see separate page)
175	HCF-5264-5	2	CLAMP, SAE split flange
176	PGF-9648-61	1	O-RING (2-1/8" OD), split flange clamp
177	HCF-6239	1	HOSE ASSEMBLY
178	HCF-7905	1	CLAMP, tube
179	HCF-7904	1	SUPPORT, tube clamp
180	HCF-1753	1	PLATE, data (HCF-8330 Decal, later type)
181	525002	1	COUPLING
182	532139	1	NIPPLE
183	532048	1	NIPPLE
184	526020	1	BUSHING, reducer
185	PGF-10144-11	1	ELBOW
186	HCF-8196	1	# HYDRAULIC OIL TANK AND COVER GROUP (includes Ref. Nos. 154A, C,D,E,F and 187)
187	HCF-8115	1	# COVER, tank
188	HCF-7336	1	# CRANE MAIN RELIEF VALVE
189	934012	1	# BUSHING, reducer
190	944001	1	# PLUG, pipe
191	HCF-8281	1	#φ TUBE (1-1/8" OD x 22")
192	HCF-8287	1	#% TUBE (3/4" OD x 32-11/16")
193	PGF-9812-8	1	# UNION, coupling
194	HCF-8288	1	#% TUBE (3/4" OD x 10")

Note: φ Includes two Ref. Q, and two Ref. R.
 % Includes two Ref. K, and two Ref. L.
 # Cranes 410-350 and up.





Note: For continuation
of piping diagram,
see opposite page.

B,C,F,G,J,L,N,P,R,T,V A,D,E,H,K,M,Q,S,U
Tuba End Fittings

FRONT OF MACHINE →

Note: For additional hyd-
raulic hose data
see Page K-2.10

(For Part Numbers,
see next page)

HYDRAULIC PIPING DIAGRAM
(Machine No. 410-1386 to 2100)

HYDRAULIC PIPING DIAGRAM
(For illustrations, see two preceding pages)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
A	PGF-9496-3		SLEEVE, coupling (for 1/4" OD tube)
B	PGF-9497-3		NUT, coupling (5/8" hex)-(for 1/4" OD tube)
C	PGF-10152-4		NUT, coupling (3/4" hex)-(for 1/4" OD tube)
D	PGF-9496-5		SLEEVE, coupling (for Ref. F)-(for 3/8" OD tube)
E	HCF-7705-5		SLEEVE, coupling (for Ref. G)-(for 3/8" OD tube)
F	PGF-9497-5		NUT, coupling (5/8"-18 thd)-(for 3/8" OD tube)
G	HCF-7597-5		NUT, coupling (9/16"-18 thd)-(for 3/8" OD tube)
H	PGF-9496-7		SLEEVE, coupling (for 5/8" OD tube)
J	PGF-9497-7		NUT, coupling (for 5/8" OD tube)
K	PGF-9496-8		SLEEVE, coupling (for 3/4" OD tube)
L	PGF-9497-8		NUT, coupling (for 3/4" OD tube)
M	PGF-9496-10		SLEEVE, coupling (for 1" OD tube)
N	PGF-9497-10		NUT, coupling (1-1/2" hex)-(for 1" OD tube)
P	PGF-10152-26		NUT, coupling (1-3/4" hex)-(for 1" OD tube)
Q	PGF-9496-11		SLEEVE, coupling (for 1-1/8" OD tube)
R	PGF-9497-11		NUT, coupling (for 1-1/8" OD tube)
S	PGF-9496-13		SLEEVE, coupling (for 1-1/2" OD tube)
T	PGF-9497-13		NUT, coupling (for 1-1/2" OD tube)
U	PGF-9496-6		SLEEVE (for Ref. V)-(for 1/2" OD tube)
V	PGF-9497-6		NUT (3/4"-16 thd)-(for 1/2" OD tube)
1	PGF-12282-5	2	COUPLING
2			CABLE HOIST MOTOR (see separate page)
3	HCF-1947	2	BUSHING, reducer
4	HCF-1598-6	6	ELBOW, street
5	HCF-1821	1	ELBOW, street
6	HCF-2159	1	PLUG
7	HCF-1613	1	NIPPLE
8	HCU-241	2	RESTRICTOR VALVE (includes Ref. Nos. 8A to 8F inclusive)-(1st type) (see Ref. 84, 85 and 86 for 2nd type)
8A	HCF-1370	1	BODY
8B	HCF-1371	1	SEAT
8C	HCF-1372	1	HEAD
8D	PGF-9648-8	1	"O" RING
8E	770026	4	WASHER, lock, internal teeth
8F	822029	4	CAPSCREW, hex-socket head
9	HCF-7417	2	HOSE, hydraulic (53-1/2" overall length)
10	HCF-7400	2	HOSE, hydraulic (85" overall length)
11	HCF-5015-5	2	ELBOW
12	HCF-7285	1	NIPPLE
13	HCF-5815	1	NIPPLE
14	HCF-3338	2	HOSE, hydraulic (47-1/2" overall length)
15	PGF-10151-26	8	ADAPTER
16	HCF-7371	1	* TUBE (1" OD x 49-1/4")
17	HCF-1055	1	NIPPLE
18			BOOM LIFT RAM } (see separate
19			BOOM CROWD RAM } page)

Note: Hydraulic hose dimensions given are overall lengths including end fittings.

* Includes two Ref. M, one Ref. N, and one Ref. P.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
20	HCF-2009	1	NIPPLE
21	HCF-2901	1	HOSE, hydraulic (37-1/2" overall length)
22			BOOM SWING MOTOR (see separate page)
23	HCF-2900	2	HOSE, hydraulic (28-1/2" overall length)
24	HCF-7535	1	% TUBE (3/4" OD x 37-1/2")
25	HCF-2915	1	HOSE, hydraulic (67" overall length)
26	526020	2	BUSHING, reducer
27	HCF-3987	4	GUARD, hose
28	518021	1	COUPLING, reducer
29	525005	4	COUPLING
30	AJF-3329	1	NIPPLE
31	PGF-10143-10	6	CONNECTOR
32	HCF-7046	1	* TUBE (1" OD x 9")
33	HCF-7367	1	* TUBE (1" OD x 54")
34	HCF-1597-6	1	ELBOW
35			PIVOT POST SWIVEL VALVE (see separate page)
36	HCF-7410	1	* TUBE (1" OD x 57-7/8")
37	HCF-7411	1	* TUBE (1" OD x 61-1/4")
38	HCF-7045	1	* TUBE (1" OD x 21")
39	HCF-2407	3	NIPPLE
40	HCF-7393	1	HOSE, hydraulic (50" overall length)
41	HCF-7394	1	HOSE, hydraulic (46" overall length)
42	HCF-7396	1	HOSE, hydraulic (53" overall length)
43	HCF-7398	1	HOSE, hydraulic (43" overall length)
44	HCF-7395	1	HOSE, hydraulic (59" overall length)
45	HCF-7397	1	HOSE, hydraulic (43" overall length)
46	HCF-7073	1	@ TUBE (1" OD x 126-1/2")
47	HCF-7072	1	@ TUBE (1" OD x 125-1/2")
48	HCF-7014	1	@ TUBE (1" OD x 103-1/2")
49	HCF-7013	1	@ TUBE (1" OD x 99-1/2")
50	HCF-6899	1	@ TUBE (1" OD x 116-1/2")
51	HCF-7012	1	@ TUBE (1" OD x 118-1/2")
52	HCF-7075	1	* TUBE (1" OD x 124-3/4")
53	HCF-7074	1	* TUBE (1" OD x 125")
54	PGF-10146-5	1	TEE
55	PGF-10143-11	2	CONNECTOR
56	PGF-10151-4	1	ADAPTER
57	HCF-8282	1	φ TUBE (1-1/8" OD x 84-1/8")
58	PGF-10144-10	6	ELBOW, 90°
59			CRANE CONTROL VALVE BANK (see separate page)
60	PGF-10144-11	3	ELBOW
61	PGF-10331-10	2	ELBOW, 45°
62	HCF-7542	1	φ TUBE (1-1/8" OD x 115-7/8")
63			FRONT STEER RAM (see separate page)
64	PGF-12282-12	2	ELBOW, swivel
65	HCF-8514	1	TUBE (1/2" OD x 15-3/8")-(includes two each of Ref. U and V)
66	PGF-10144-15	1	ELBOW
67	PGF-10144-6	1	ELBOW

Note: * Includes two Ref. M, one Ref. N, and one Ref. P.

% Includes two Ref. K, and two Ref. L.

@ Includes two Ref. M, and two Ref. N.

φ Includes two Ref. Q, and two Ref. R.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
68	564004	1	COUPLING, male 90°
69	PGF-10143-16	1	CONNECTOR
70	HCF-3716	1	HOSE, hydraulic (42" overall length)
71	HCF-7597-7	1	CONNECTOR, male
72	HCF-7705-7	1	COUPLING, ermeto, sleeve
73	HCF-1598-4	1	ELBOW, street 90°
74	HCF-8507-6	1	REDUCER, ermeto
75	HCF-8506-8	1	ELBOW, 90° (includes PGF-9648-41)
76	HCF-8513	1	TUBE (1/2" OD x 15")-(includes two each of Ref. U and V)
77			STEERING GEAR VALVE (see separate page)
78	HCF-7630-4	2	ELBOW, swivel (includes "O" Ring PGF-9648-77)
79	HCF-7617	1	HOSE, hydraulic (43" overall length)
80	PGF-10143-8	1	CONNECTOR
81	PGF-12290-2	1	TEE
82	947007	1	BUSHING, face
83	HCF-7593	1	VALVE, flow control
84	HCF-8503	2	BODY
85	HCF-8504	2	POPPET
86	HCF-8519	2	RING, snap } (2nd type Restrictor Group)
87	812004	1	PLUG
88	HCF-8281	1	# ϕ TUBE (1-1/2" OD x 22")
89	PGF-9812-8	1	# UNION, coupling
90	HCF-8288	1	# ϕ TUBE (3/4" OD x 10")
91	532048	1	NIPPLE
92	PGF-12287-4	2	CONNECTOR, swivel, 45°
93	HCF-7905	1	CLAMP, tube
94	532139	1	NIPPLE
95	525002	1	COUPLING
96	HCF-8330	1	PLATE, data
97	532144	1	NIPPLE
98	HCF-9276	1	SUPPORT
99	PGF-10144-3	1	ELBOW, 90° (not used with hydraulic outriggers shown on separate page)
100	HCF-2657	1	TUBE (1-1/4" OD x 5-1/4")-(includes two Ref. A and two Ref. B)
101	PGF-10143-7	2	CONNECTOR
102	PGF-10144-8	1	ELBOW
103			REAR STEER CONTROL VALVE (see separate page)
104	PGF-10147-3	1	TEE
105	HCF-7068	1	TUBE (1/4" OD x 28-1/4")-(includes two Ref. A one Ref. B, and one Ref. C)
106	PGF-9812-8	1	UNION, coupling
107	HCF-9835	1	NIPPLE
108	PGF-12292-4	1	TEE
109	934010	1	BUSHING, reducer
110	PGF-10144-5	1	ELBOW, 90°
111	HCF-7071	1	& TUBE (3/8" OD x 92")
112	HCF-9754	1	HOSE, hydraulic (21-3/4" overall length)
113	HCF-7543	1	HOSE, hydraulic (15" overall length)

Cranes 410-350 and up.

ϕ Includes two Ref. Q, and two Ref. R.

% Includes two Ref. K, and two Ref. L.

& Includes two Ref. D, and two Ref. F.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
114	PGF-9648-75	1	"O" RING
115	934020	2	BUSHING, reducer
116	HCF-7404	1	\$ TUBE (5/8" OD x 29-1/8")
117	HCF-7402	1	\$ TUBE (5/8" OD x 28-3/4")
118	PGF-10161-8	1	ELBOW (not used with hydraulic outriggers shown on separate page)
119	HCF-8287	1	% TUBE (3/4" OD x 33")
120	HCF-7416	1	% TUBE (3/4" OD x 13-1/8")-(not used with hydraulic outriggers shown on separate page)
121	HCF-7420	1	\$ TUBE (5/8" OD x 91-1/2")
122	HCF-1568-6	2	UNION, adapter
123	PGF-9812-7	2	UNION, coupling
124	HCF-1592-7	1	TEE
125	PGF-12292-3	1	TEE
126	563009	1	ELBOW, street, 90°
127	HCF-1537	1	HOSE (2-3/8" ID x 4")
128	034016	4	CLAMP, hose
129	HCF-1610	1	NIPPLE
130			CRANE MAIN RELIEF VALVE (see separate page)
131	532185	1	NIPPLE
132			STEERING AND OUTRIGGERS RELIEF VALVE (see separate page)
133	HCF-3131	1	HOSE, hydraulic (45" overall length)
134	HCF-8001	1	TUBE, suction
135	HCF-7414	1	\$ TUBE (5/8" OD x 93-3/8")
136	HCF-7528	1	% TUBE (3/4" OD x 27-11/16")
137	PGF-10185-8	1	TEE (not used with hydraulic outriggers shown on separate page)
138	HCF-7426	1	% TUBE (3/4" OD x 88-1/4")
139	PGF-10310-7	2	CONNECTOR
140	PGF-10104-4	2	ELBOW
141	HCF-2917	2	HOSE, hydraulic (23" overall length)
142	HCF-3109	1	HOSE, hydraulic (21-1/2" overall length)
143	HCF-2918	1	HOSE, hydraulic (29" overall length)
144			REAR STEER RAM (see separate page)
145			STEERING AND OUTRIGGERS PUMP (see separate page)
146	532183	1	NIPPLE
147	534015	1	BUSHING, reducer
148	HCF-5322	1	HOSE, hydraulic (26-1/2" overall length)
149	HCF-5264-5	4	CLAMP, SAE split flange
150	HCF-5265-5	1	PLATE, connection
151	PGF-9648-61	2	"O" RING, (2-1/8" OD) split flange clamp
152	HCF-5264-6	6	CLAMP, SAE split flange
153	HCF-153	1	BOLT, tension chain
154			HYDRAULIC OIL TANK AND COVER GROUP (includes Ref. Nos. 154A to 154F inclusive)
154A			OIL TANK (welded)
154B	HCF-8115	1	COVER, tank
154C	HCF-4184	1	GASKET, tank cover
154D	HCF-1747-28	16	NUT, cage
154E	HCF-1352	1	SCREEN, filler

Note: \$ Includes two Ref. H, and two Ref. J.

% Includes two Ref. K, and two Ref. L.

(continued)

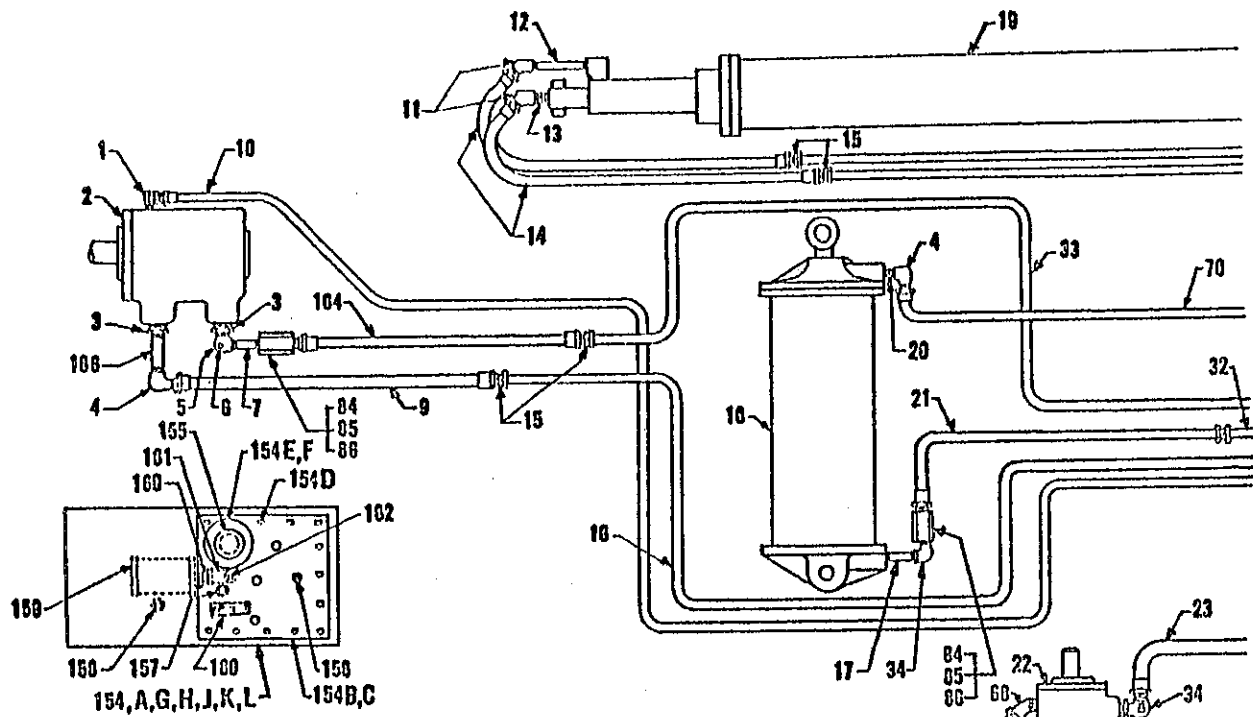
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
154F	HCF-296	1	GASKET, filler screen
155	PGF-9374	1	CAP, breather
156	810005	1	PLUG, pipe
157	HCF-1358	1	GAUGE, oil leve
158	810001	1	PLUG, drain
159	HCF-5940	1	FILTER, oil
160	HCF-5938	1	ADAPTER, oil filter
161	522009	1	ELBOW, 90°, oil filter
162	532359	1	NIPPLE, oil filter
163			CRANE PUMP (regular - 48 gallon)-(see separate page)
164			CRANE PUMP (special - 73 gallon)-(see separate page)
165	HCF-8462	1	HOSE ASSEMBLY
166	PGF-9648-2	1	"O" RING
167	HCF-8416	1	TUBE (1-1/2" OD x 19-9/16")-(includes two Ref. S, and two Ref. T)
168	HCF-1595-8	1	ELBOW, swivel 90°
169	PGF-12288-2	1	ELBOW, swivel 45°
170	HCF-7433	1	HOSE, hydraulic (30" overall length)
171	HCF-10705	1	TUBE (1-1/2" OD x 17-5/8")
172	HCF-5264-4	6	CLAMP, SAE split flange

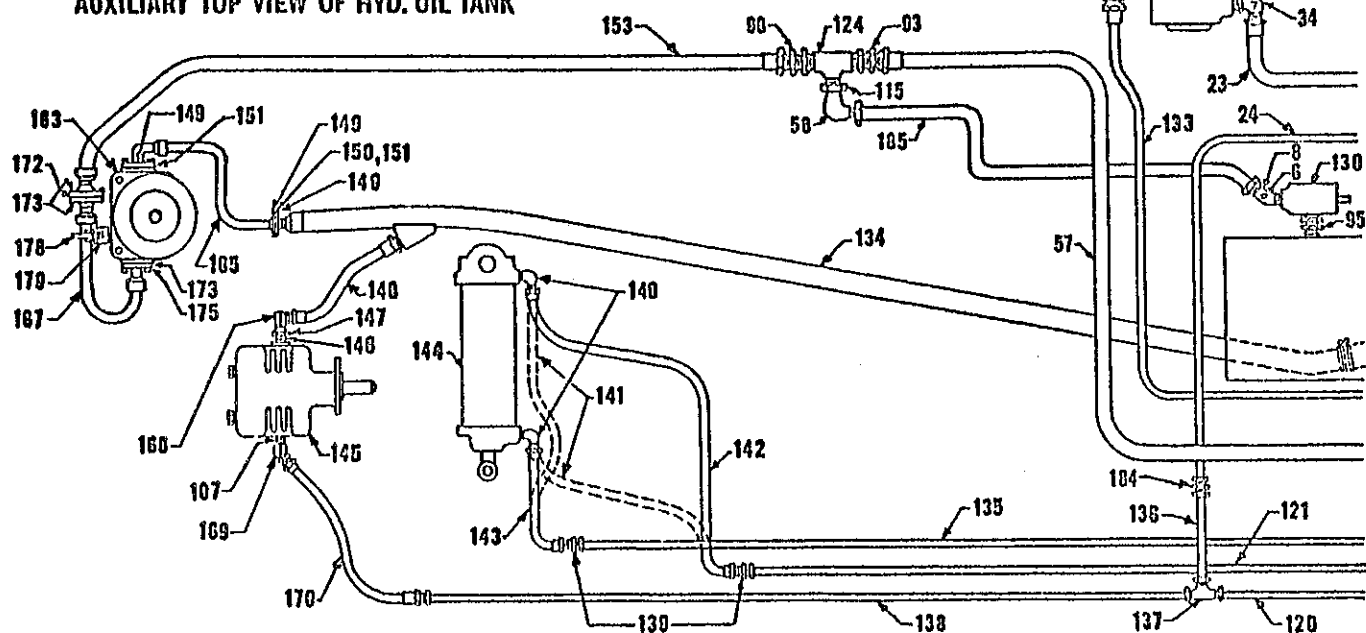
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C

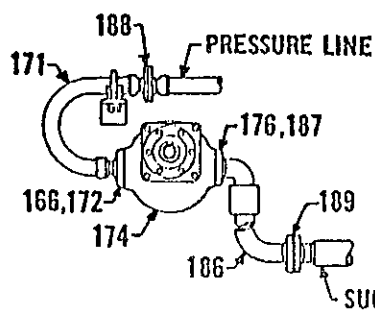
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AUXILIARY TOP VIEW OF HYD. OIL TANK



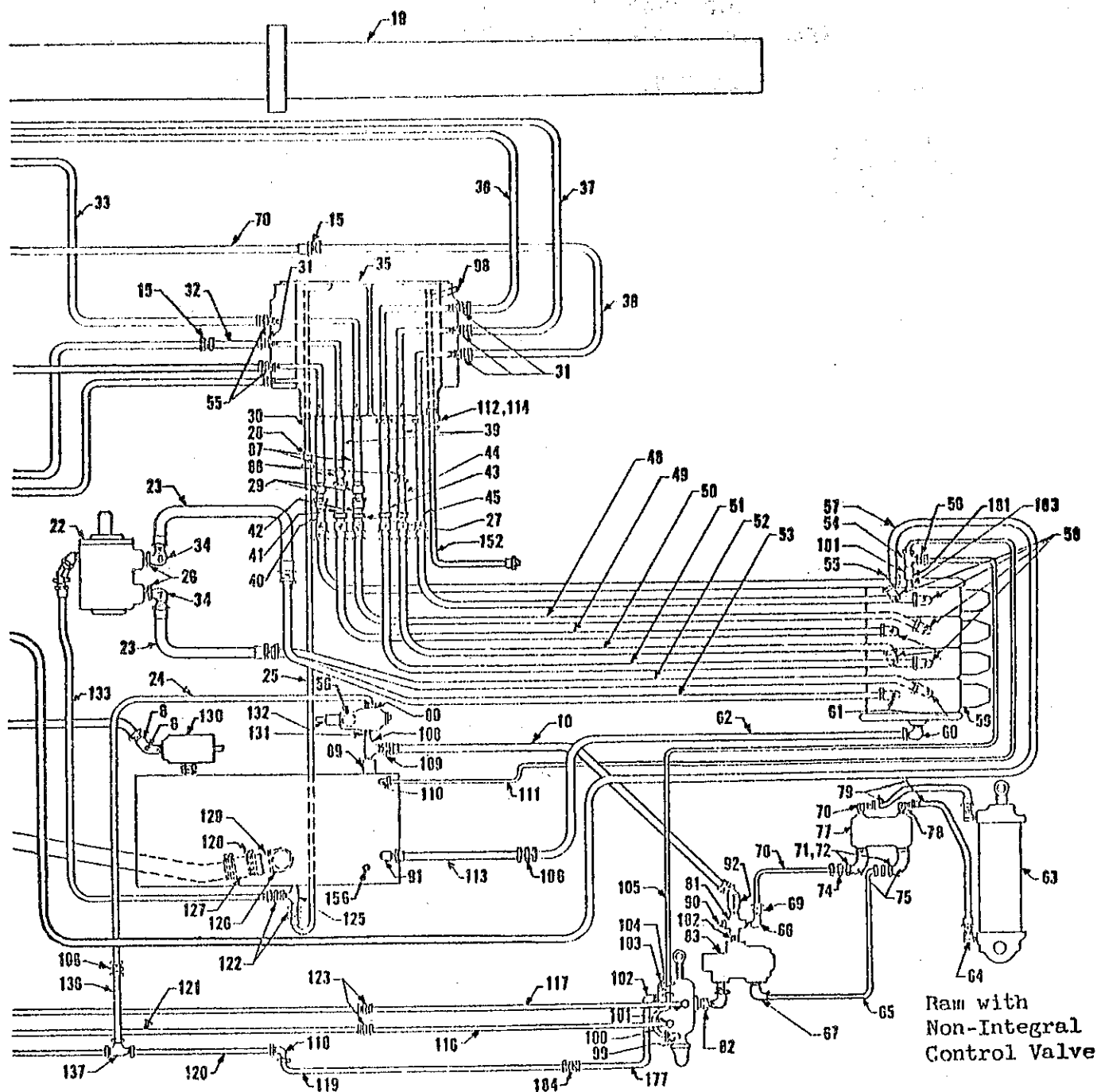
FRONT OF MACHINE →



Note: For continuation of piping diagram, see opposite page.

Piping for Special Order
73 gallon Pump

HYDRAULIC PIPING DIAGRAM
(1" and 1-1/4" Lines to Hoist Motor)
(Machine No. 410-2100 to 2792)



Note: For continuation
of piping diagram,
see opposite page.

B,C,F,G,J,L,N,P,R,T,V,X, A,D,E,H,K,M,O,S,U,W

Tube End Fittings

Note: For additional hyd-
raulic hose data
see Page K-2.10

(For Part Numbers,
see next page)

HYDRAULIC PIPING DIAGRAM
(1" and 1-1/4" Lines to Hoist Motor)
(Machine No. 410-2100 to 2792)

HYDRAULIC PIPING DIAGRAM
(For illustration, see preceding pages)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
A	PGF-9496-3		SLEEVE, coupling (for 1/4" OD tube)
B	PGF-9497-3		NUT, coupling (5/8" hex)-(for 1/4" OD tube)
C	PGF-10152-4		NUT, coupling (3/4" hex)-(for 1/4" OD tube)
D	PGF-9496-5		SLEEVE, coupling (for Ref. F)-(for 3/8" OD tube)
E	HCF-7705-5		SLEEVE, coupling (for Ref. G)-(for 3/8" OD tube)
F	PGF-9497-5		NUT, coupling (5/8"-18 thd)-(for 3/8" OD tube)
G	HCF-7597-5		NUT, coupling (9/16"-18 thd)-(for 3/8" OD tube)
H	PGF-9496-7		SLEEVE, coupling (for 5/8" OD tube)
J	PGF-9497-7		NUT, coupling (for 5/8" OD tube)
K	PGF-9496-8		SLEEVE, coupling (for 3/4" OD tube)
L	PGF-9497-8		NUT, coupling (for 3/4" OD tube)
M	PGF-9496-10		SLEEVE, coupling (for 1" OD tube)
N	PGF-9497-10		NUT, coupling (1-1/2" hex)-(for 1" OD tube)
P	PGF-10152-26		NUT, coupling (1-3/4" hex)-(for 1" OD tube)
Q	PGF-9496-11		SLEEVE, coupling (for 1-1/8" OD tube)
R	PGF-9497-11		NUT, coupling (for 1-1/8" OD tube)
S	PGF-9496-13		SLEEVE, coupling (for 1-1/2" OD tube)
T	PGF-9497-13		NUT, coupling (for 1-1/2" OD tube)
U	PGF-9496-6		SLEEVE (for Ref. V)-(for 1/2" OD tube)
V	PGF-9497-6		NUT (3/4"-16 thd)-(for 1/2" OD tube)
W	PGF-9496-12		SLEEVE (for Ref. X)-(for 1-1/4" OD tube)
X	PGF-9497-12		NUT (1-5/8"-16 thd)-(for 1-1/4" OD tube)
1	PGF-12282-5	2	COUPLING
2			CABLE HOIST MOTOR (see separate page)
3	HCF-1947	2	BUSHING, reducer
4	HCF-1597-6	6	ELBOW, street
5	HCF-1821	1	ELBOW, street
6	HCF-2159	1	PLUG
7	HCF-1613	1	NIPPLE
8	HCF-10526	1	ELBOW, male 45°
9	HCF-10946	1	HOSE, hydraulic (72" overall length)
10	HCF-7400	2	HOSE, hydraulic (85" overall length)
11	HCF-5015-5	2	ELBOW
12	HCF-7285	1	NIPPLE
13	HCF-5815	1	NIPPLE
14	HCF-10487	2	HOSE, hydraulic (47-1/2" overall length)
15	PGF-10151-26	8	ADAPTER
16	HCF-10229	1	TUBE (1-1/4" OD x 37-3/4")-(includes two each of Ref. W and X)
17	HCF-1055	1	NIPPLE
18			BOOM LIFT RAM } (see separate
19			BOOM CROWD RAM } page)
20	HCF-2009	1	NIPPLE
21	HCF-10485	1	HOSE, hydraulic (37-1/2" overall length)
22			BOOM SWING MOTOR (see separate page)
23	HCF-10529	2	HOSE, hydraulic (28-1/2" overall length)
24	HCF-7535	1	% TUBE (3/4" OD x 37-1/2")

Note: Hydraulic hose dimensions given are overall lengths including end fittings.

% Includes two Ref. K, and two Ref. L.

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(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
25	HCF-10263	1	HOSE, hydraulic (73" overall length)
26	526020	2	BUSHING, reducer
27	HCF-3987	4	GUARD, hose
28	518021	1	COUPLING, reducer
29	937006	4	COUPLING
39	ASF-3329	1	NIPPLE
31	PGF-10143-10	6	CONNECTOR
32	HCF-10495	1	* TUBE (1" OD x 9")
33	HCF-10230	1	* TUBE (1" OD x 54")
34	HCF-1598-6	1	ELBOW
35			PIVOT POST SWIVEL VALVE (see separate page)
36	HCF-10493	1	* TUBE (1" OD x 57-7/8")
37	HCF-10494	1	* TUBE (1" OD x 61-1/4")
38	HCF-10882	1	* TUBE (1" OD x 21")
39	HCF-10256	3	NIPPLE
40	HCF-10259	1	HOSE, hydraulic (42" overall length)
41	HCF-10258	1	HOSE, hydraulic (36" overall length)
42	HCF-10257	1	HOSE, hydraulic (30" overall length)
43	HCF-10262	1	HOSE, hydraulic (53" overall length)
44	HCF-10261	1	HOSE, hydraulic (51" overall length)
45	HCF-10260	1	HOSE, hydraulic (52" overall length)
46	HCF-7073	1	@ TUBE (1" OD x 126-1/2")
47	HCF-7072	1	@ TUBE (1" OD x 125-1/2")
48	HCF-10232	1	** TUBE (1-1/4" OD x 105-3/4")
49	HCF-10231	1	** TUBE (1-1/4" OD x 100")
50	HCF-6899	1	TUBE (1" OD x 116-1/2")
51	HCF-7012	1	TUBE (1" OD x 118-1/2")
52	HCF-10531	1	TUBE (1" OD x 124-3/4")
53	HCF-10532	1	TUBE (1" OD x 125")
54	PGF-10146-5	1	TEE
55	HCF-10501-11	3	CONNECTOR
56	812004	1	PLUG
57	HCF-10840	1	** TUBE (1-1/4" OD x 126")
58	PGF-10144-10	6	ELBOW, 90°
59			CRANE CONTROL VALVE BANK (see separate page)
60	PGF-10144-11	3	ELBOW
61	PGF-10331-10	2	ELBOW, 45°
62	HCF-10844	1	** TUBE (1-1/4" OD x 111")
63			FRONT STEER RAM (see separate page)
64	PGF-12282-12	2	ELBOW, swivel
65	HCF-8514	1	@@ TUBE (1/2" OD x 15-3/8")
66	PGF-10144-15	1	ELBOW
67	PGF-10144-6	1	ELBOW
68	564004	1	COUPLING, 90° male
69	PGF-10143-16	1	CONNECTOR
70	HCF-10486	1	HOSE, hydraulic (42" overall length)
71	HCF-7597-7	1	NUT, tube
72	HCF-7705-7	1	SLEEVE
73	HCF-1598-4	1	ELBOW
74	HCF-8507-6	1	REDUCER, ermeto

Note: * Includes two Ref. M, one Ref. N, and one Ref. P.

@ Includes two Ref. M, and two Ref. N.

** Includes two Ref. W, and two Ref. X.

@@ Includes two Ref. U, and two Ref. V.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
75	HCF-8506-7	1	ELBOW, 90° (includes PGF-9648-74 "O" Ring)
76	HCF-8513	1	@@ TUBE (1/2" OD x 15")
77			STEERING GEAR VALVE
78	HCF-7630-4	2	ELBOW, swivel (includes "O" Ring PGF-9648-77)
79	HCF-7617	2	HOSE (43" overall length)
80	PGF-10143-8	1	CONNECTOR
81	874003	1	TEE
82	947007	1	BUSHING (face)
83	HCF-7593	1	VALVE, flow control
84	HCF-8503	2	BODY
85	HCF-8504	2	POPPET
86	HCF-10835-21	2	RING, snap
87	HCF-10255	1	NIPPLE
88	937005	1	COUPLING
89	525005	1	COUPLING
90	810003	1	PLUG
91	PGF-10144-12	1	ELBOW
92	PGF-12287-4	1	CONNECTOR, swivel, 45°
93	PGF-10143-12	1	CONNECTOR
94	PGF-12287-4	1	COUPLING, 45° swivel
95	PGF-12294-9	1	ADAPTER
96	PGF-12294-10	1	ADAPTER
97	532144	1	NIPPLE
98	945000	1	PLUG, pipe
99	PGF-10144-3	1	ELBOW, 90° (not used with hydraulic outriggers shown on separate page)
100	HCF-2657	1	TUBE (1/4" OD x 5-1/4")-(includes two Ref. A, and two Ref. B)
101	PGF-10143-7	2	CONNECTOR
102	PGF-10144-8	1	ELBOW
103			REAR STEER CONTROL VALVE (see separate page)
104	PGF-10147-3	1	TEE
105	HCF-7068	1	TUBE (1/4" OD x 28-1/4")-(includes two Ref. A, one Ref. B, and one Ref. C.)
106	PGF-9812-12	1	UNION
107	HCF-9835	1	NIPPLE
108	PGF-12292-4	1	TEE
109	934010	1	BUSHING, reducer
110	PGF-10144-5	1	ELBOW, 45°
111	HCF-7071	1	& TUBE (3/8" OD x 92")
112	HCF-6134	1	CONNECTOR
113	HCF-10841	1	** TUBE (1-1/4" OD x 14")
114	ASF-5451	1	WASHER
115	934020	2	BUSHING, reducer
116	HCF-7404	1	\$ TUBE (5/8" OD x 29-1/8")
117	HCF-7402	1	\$ TUBE (5/8" OD x 28-3/4")
118	PGF-10161-8	1	ELBOW (not used with hydraulic outriggers shown on separate page)
119	HCF-8287	1	## TUBE (3/4" OD x 33")

Note: @@ Includes two Ref. U, and two Ref. V.

& Includes two Ref. D, and two Ref. F.

** Includes two Ref. W, and two Ref. X.

\$ Includes two Ref. H, and two Ref. J.

Cranes 410-350 and up.

% Includes two Ref. K, and two Ref. L.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
120	HCF-7416	1	% TUBE (3/4" OD x 42-7/8")-(not used with hydraulic outriggers shown on separate page)
121	HCF-7420	1	\$ TUBE (5/8" OD x 91-1/2")
122	HCF-1568-6	2	UNION, adapter
123	PGF-9812-7	2	UNION, coupling
124	HCF-1592-7	1	TEE
125	PGF-12292-3	1	TEE
126	563009	1	ELBOW, street 90°
127	HCF-1537	1	HOSE (2-3/8" ID x 4")
128	034016	4	CLAMP, hose
129	HCF-1610	1	NIPPLE
130			CRANE MAIN RELIEF VALVE (see separate page)
131	532185	1	NIPPLE
132			STEERING AND OUTRIGGERS RELIEF VALVE (see separate page)
133	HCF-3131	1	HOSE, hydraulic (45" overall length)
134	HCF-8001	1	TUBE, suction
135	HCF-7414	1	\$ TUBE (5/8" OD x 93-3/8")
136	HCF-7528	1	% TUBE (3/4" OD x 27-11/16")
137	PGF-10185-8	1	TEE (not used with hydraulic outriggers shown on separate page)
138	HCF-7426	1	% TUBE (3/4" OD x 88-1/4")
139	PGF-10310-7	2	CONNECTOR
140	PGF-10104-4	2	ELBOW
141	HCF-2917	2	HOSE, hydraulic (23" overall length)-(for driving rear axle)
142	HCF-3109	1	HOSE, hydraulic (21-1/2" overall length)-(for non-driving rear axle)
143	HCF-2918	1	HOSE, hydraulic (29" overall length)-(for non-driving rear axle)
144			REAR STEER RAM (see separate page)
145			STEERING AND OUTRIGGERS PUMP (see separate page)
146	532183	1	NIPPLE
147	534015	1	BUSHING, reducer
148	HCF-5322	1	HOSE, hydraulic (26-1/2" overall length)
149	HCF-5264-5	4	CLAMP, SAE split flange
150	HCF-5265-5	1	PLATE, connection
151	PGF-9648-61	2	"O" RING (2-1/8" OD) split flange clamp
152	HCF-10481	1	TUBE (1/4" OD x 73")-(includes Ref. 186)
153	HCF-10528	1	HOSE, hydraulic (78" overall length)
154			HYDRAULIC OIL TANK AND COVER GROUP (includes Ref. Nos. 154A to 154L inclusive)
154A	HCF-10079	1	OIL TANK
154B	HCF-10077	1	COVER
154C	HCF-10078	1	GASKET
154D	HCF-9051	1	STRAINER
154E	HCF-9056	1	GASKET
154F	HCF-9053	1	FILTER
154G	HCF-9054	1	SPRING
154H	HCF-9055	1	WASHER
154J	721003	19	NUT

Note: % Includes two Ref. K, and two Ref. L.

\$ Includes two Ref. H, and Ref. J.

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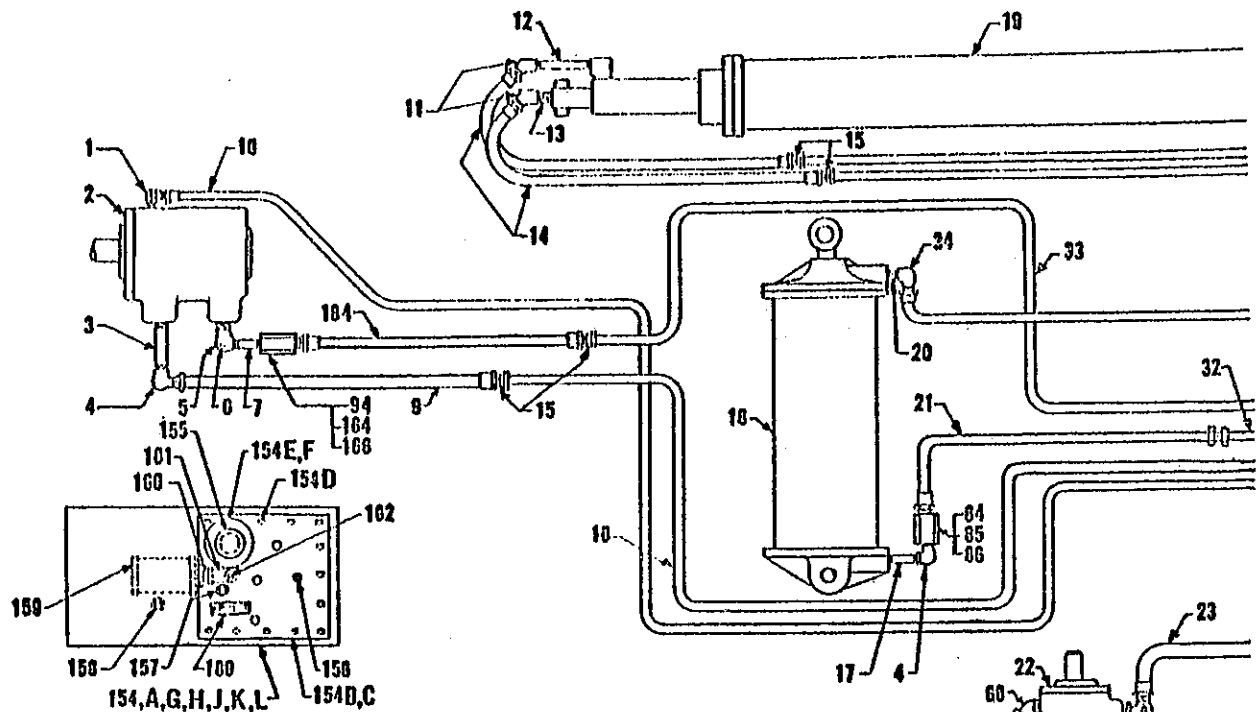
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
154K	765004	19	WASHER
154L	778011	19	WASHER, lock
155	HCF-9376	1	CAP
156	810005	1	PLUG
157	HCF-1358	1	GAUGE, oil level
158	810001	1	PLUG, drain
159	HCF-5940	1	FILTER, oil
160	HCF-5938	1	ADAPTER, oil filter
161	522009	1	ELBOW, 90° oil filter
162	532359	1	NIPPLE, oil filter
163			CRANE PUMP (regular - 48 gallon)-(see separate page)
164	HCF-10621	1	HOSE, hydraulic (66" overall length)
165	HCF-8462	1	HOSE, hydraulic (22-1/2" overall length)
166	HCF-5934	1	NIPPLE
167	HCF-9708	1	TUBE (1-1/2" OD x 18-5/8")-(includes two Ref. S and two Ref. T)
168	HCF-1595-8	1	ELBOW, swivel, 90°
169	PGF-12288-2	1	ELBOW, swivel, 45°
170	HCF-7433	1	HOSE, hydraulic (30" overall length)
171	HCF-10705	1	TUBE (1-1/2" OD x 17-5/8")
172	HCF-5265-4	6	FLANGE, split
173	PGF-9648-62	1	"O" RING (1-3/4" OD) split flange clamp
174			CRANE PUMP (special - 73 gallon)-(see separate page)
175	HCF-5264-4	6	CLAMP, SAE split flange
176	PGF-9648-75	3	"O" RING
177	HCF-8288	1	%% TUBE (3/4" OD x 10")
178	HCF-7905	1	CLAMP
179	HCF-9276	1	SUPPORT
180	HCF-8330	1	PLATE, data
181	525002	1	COUPLING
182	532139	1	NIPPLE
183	532048	1	NIPPLE
184	PGF-9812-8	2	# UNION, coupling
185	HCF-10234	1	TUBE (1" OD x 29-3/4")-(includes two each of Ref. m and N)
186	HCF-9754	1	HOSE ASSEMBLY
187	HCF-5264-6	1	CLAMP, SAE split flange
188	HCF-5265-4	1	PLATE, connection
189	HCF-5265-5	1	PLATE, connection

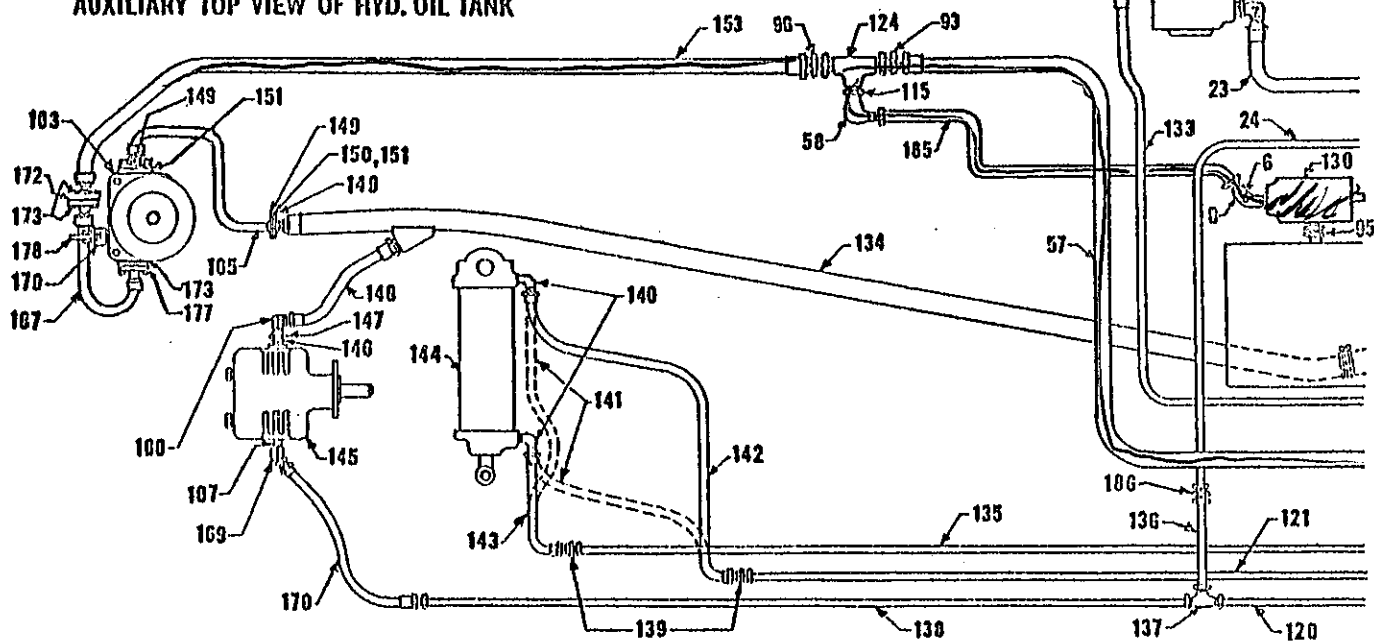
Note: # Cranes 410-350 and up.

% Includes two Ref. K, and two Ref. L.

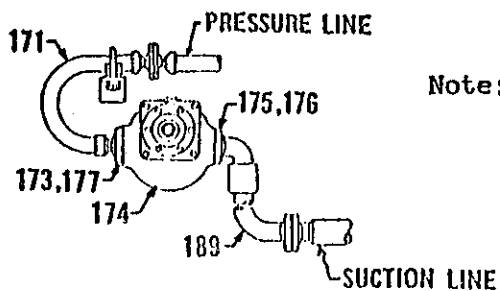




AUXILIARY TOP VIEW OF HYD. OIL TANK



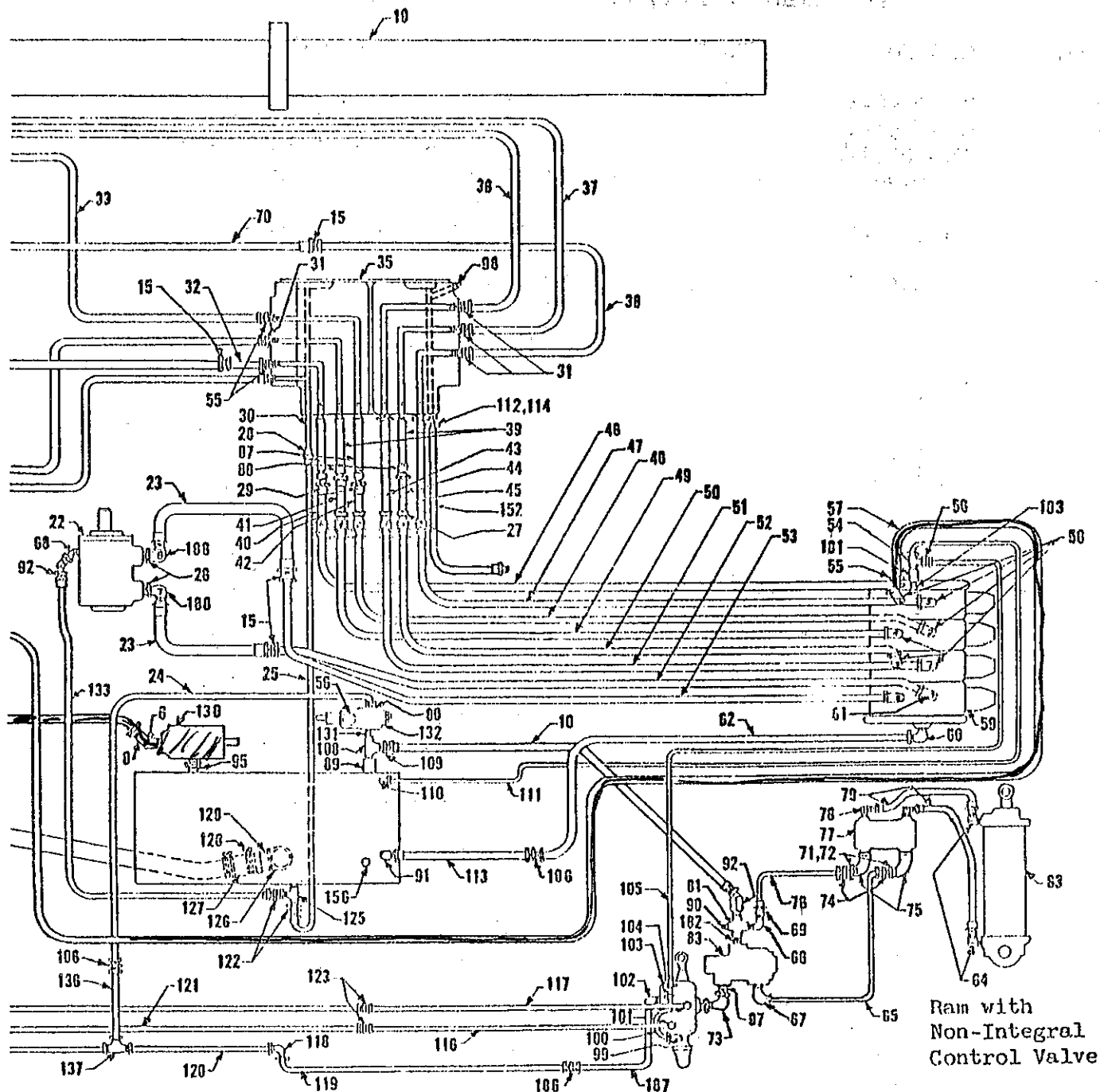
FRONT OF MACHINE →



Note: For continuation of piping diagram, see opposite page.

Piping for Special Order
73 gallon Pump

HYDRAULIC PIPING DIAGRAM
(1-1/4" Lines to Hoist Motor)
(Machine No. 410-2792 and up)



Note: For continuation
of piping diagram,
see opposite page.

B,C,F,G,I,L,N,P,R,T,V,X,Z — A,D,E,H,K,M,Q,S,U,W

 Tube End Fittings

FRONT OF MACHINE →

Note: For additional hydraulic hose data
see Page K-2.10

(For Part Numbers,
see next page)

HYDRAULIC PIPING DIAGRAM
 (1-1/4" Lines to Hoist Motor)
 (Machine No. 410-2792 and up)

HYDRAULIC PIPING DIAGRAM
(For illustrations, see two preceding pages)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
A	PGF-9496-3		SLEEVE, coupling (for 1/4" OD tube)
B	PGF-9497-3		NUT, coupling (5/8" hex)-(for 1/4" OD tube)
C	PGF-10152-4		NUT, coupling (3/4" hex)-(for 1/4" OD tube)
D	PGF-9496-5		SLEEVE, coupling (for Ref. F)-(for 3/8" OD tube)
E	HCF-7705-5		SLEEVE, coupling (for Ref. G)-(for 3/8" OD tube)
F	PGF-9497-5		NUT, coupling (5/8"-18 thd)-(for 3/8" OD tube)
G	HCF-7597-5		NUT, coupling (9/16"-18 thd)-(for 3/8" OD tube)
H	PGF-9496-7		SLEEVE, coupling (for 5/8" OD tube)
J	PGF-9497-7		NUT, coupling (for 5/8" OD tube)
K	PGF-9496-8		SLEEVE, coupling (for 3/4" OD tube)
L	PGF-9497-8		NUT, coupling (for 3/4" OD tube)
M	PGF-9496-10		SLEEVE, coupling (for 1" OD tube)
N	PGF-9497-10		NUT, coupling (1-1/2" hex)-(for 1" OD tube)
P	PGF-10152-26		NUT, coupling (1-3/4" hex)-(for 1" OD tube)
Q	PGF-9496-11		SLEEVE, coupling (for 1-1/8" OD tube)
R	PGF-9497-11		NUT, coupling (for 1-1/8" OD tube)
S	PGF-9496-13		SLEEVE, coupling (for 1-1/2" OD tube)
T	PGF-9497-13		NUT, coupling (for 1-1/2" OD tube)
U	PGF-9496-6		SLEEVE (for Ref. V)-(for 1/2" OD tube)
V	PGF-9497-6		NUT (3/4"-16 thd)-(for 1/2" OD tube)
W	PGF-9496-12		SLEEVE (for Ref. X)-(for 1-1/4" OD tube)
X	PGF-9497-12		NUT (1-5/8"-16 thd)-(for 1-1/4" OD tube)
1	PGF-12282-5	2	COUPLING
2			CABLE HOIST MOTOR (see separate page)
3	HCF-3151	1	NIPPLE
4	HCF-1597-7	1	ELBOW, street
5	HCF-10253	1	ELBOW
6	HCF-2159	2	PLUG
7	HCF-10952	1	NIPPLE
8	HCF-10526	1	ELBOW, male 45°
9	HCF-10955	1	HOSE, hydraulic (72" overall length)
10	HCF-7400	2	HOSE, hydraulic (85" overall length)
11	HCF-5015-5	2	ELBOW
12	HCF-7285	1	NIPPLE
13	HCF-5815	1	NIPPLE
14	HCF-10487	2	HOSE, hydraulic (47-1/2" overall length)
15	PGF-10151-26	8	ADAPTER
16	HCF-10229	1	TUBE (1-1/4" OD x 37-3/4")-(includes two each of Ref. W and X)
17	HCF-1055	1	NIPPLE
18			BOOM LIFT RAM } (see separate
19			BOOM CROWD RAM } page)
20	HCF-2009	1	NIPPLE
21	HCF-10485	1	HOSE, hydraulic (37-1/2" overall length)
22			BOOM SWING MOTOR (see separate page)
23	HCF-10529	2	HOSE, hydraulic (28-1/2" overall length)
24	HCF-7535	1	% TUBE (3/4" OD x 37-1/2")

Note: Hydraulic hose dimensions given are overall lengths including end fittings.
% Includes two Ref. K, and two Ref. L.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
25	HCF-2920	1	HOSE, hydraulic (63" overall length)
26	526020	2	BUSHING, reducer
27	HCF-3987	4	GUARD, hose
28	518021	1	COUPLING, reducer
29	937006	4	COUPLING
30	AJF-3329	1	NIPPLE
31	PGF-10143-10	6	CONNECTOR
32	HCF-10495	1	* TUBE (1" OD x 9")
33	HCF-10230	1	* TUBE (1" OD x 54")
34	HCF-1597-6	1	ELBOW
35			PIVOT POST SWIVEL (see separate page)
36	HCF-10493	1	* TUBE (1" OD x 57-7/8")
37	HCF-10494	1	* TUBE (1" OD x 61-1/4")
38	HCF-10882	1	* TUBE (1" OD x 21")
39	HCF-10256	3	NIPPLE
40	HCF-10259	1	HOSE, hydraulic (42" overall length)
41	HCF-10258	1	HOSE, hydraulic (36" overall length)
42	HCF-10615	1	HOSE, hydraulic (34" overall length)
43	HCF-10262	1	HOSE, hydraulic (53" overall length)
44	HCF-10261	1	HOSE, hydraulic (51" overall length)
45	HCF-10260	1	HOSE, hydraulic (53" overall length)
46	HCF-7073	1	@ TUBE (1" OD x 126-1/2")
47	HCF-7072	1	@ TUBE (1" OD x 125-1/2")
48	HCF-10232	1	** TUBE (1-1/4" OD x 105-3/4")
49	HCF-10231	1	** TUBE (1-1/4" OD x 100")
50	HCF-6899	1	TUBE (1" OD x 116-1/2")
51	HCF-7012	1	TUBE (1" OD x 118-1/2")
52	HCF-10531	1	TUBE (1" OD x 124-3/4")
53	HCF-10532	1	TUBE (1" OD x 125")
54	PGF-10146-5	1	TEE
55	HCF-10501-11	3	CONNECTOR
56	812004	1	PLUG
57	HCF-10840	1	** TUBE (1-1/4" OD x 126")
58	PGF-10144-10	6	ELBOW, 90°
59			CRANE CONTROL VALVE BANK (see separate page)
60	PGF-10144-11	3	ELBOW
61	PGF-10331-10	2	ELBOW, 45°
62	HCF-10844	1	** TUBE (1-1/4" OD x 111")
63			FRONT STEER RAM (see separate page)
64	PGF-12282-12	2	ELBOW, swivel
65	HCF-8514	1	@@ TUBE (1/2" OD x 15-3/8")
66	PGF-10144-15	1	ELBOW
67	PGF-10144-6	1	ELBOW
68	564004	1	COUPLING, 90° male
69	PGF-10143-16	1	CONNECTOR
70	HCF-10486	1	HOSE, hydraulic (42" overall length)
71	HCF-7597-7	1	NUT, tube
72	HCF-7705-7	1	SLEEVE
73	HCF-1598-4	1	ELBOW
74	HCF-8507-6	1	REDUCER, ermeto

Note: * Includes two Ref. M, one Ref. N, and one Ref. P.

@ Includes two Ref. M, and two Ref. N.

** Includes two Ref. W, and two Ref. X.

@@ Includes two Ref. U, and two Ref. V.

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(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
75	HCF-8506-7	1	ELBOW, 90° (includes PGF-9648-74 "O" Ring)
76	HCF-8513	1	@@ TUBE (1/2" OD x 15")
77			STEERING GEAR VALVE (see separate page)
78	HCF-7630-4	2	ELBOW, swivel (includes "O" Ring PGF-9648-77)
79	HCF-7617	2	HOSE, hydraulic (43" overall length)
80	PGF-10143-8	1	CONNECTOR
81	874003	1	TEE
82	947007	1	BUSHING, face
83	HCF-7593	1	VALVE, flow control
84	HCF-8503	1	BODY
85	HCF-8504	1	POPPET
86	HCF-10835-21	1	RING, snap
87	HCF-10255	1	NIPPLE
88	937005	1	COUPLING
89	525005	1	COUPLING
90	810003	1	PLUG
91	PGF-10144-12	1	ELBOW
92	PGF-12287-4	2	CONNECTOR, swivel, 45°
93	PGF-10143-12	1	CONNECTOR
94	HCF-10826	1	BODY
95	PGF-12294-9	1	ADAPTER
96	PGF-12294-10	1	ADAPTER
97	532144	1	NIPPLE
98	945000	1	PLUG, pipe
99	PGF-10144-3	1	ELBOW, 90° (not used with hydraulic outriggers shown on separate page)
100	HCF-2657	1	TUBE (1/4" OD x 5-1/4")-(includes two Ref. A, and two Ref. B)
101	PGF-10143-7	2	CONNECTOR
102	PGF-10144-8	1	ELBOW
103			REAR STEER CONTROL VALVE (see separate page)
104	PGF-10147-3	1	TEE
105	HCF-7068	1	TUBE (1/4" OD x 28-1/4")
106	PGF-9812-12	1	UNION
107	HCF-9835	1	NIPPLE
108	PGF-12292-4	1	TEE
109	934010	1	BUSHING, reducer
110	PGF-10144-5	1	ELBOW, 45°
111	HCF-7071	1	& TUBE (3/8" OD x 92")
112	HCF-6134	1	CONNECTOR
113	HCF-10841	1	** TUBE (1-1/4" OD x 14")
114	ASF-5451	1	WASHER
115	934020	2	BUSHING, reducer
116	HCF-7404	1	\$ TUBE (5/8" OD x 29-1/8")
117	HCF-7402	1	\$ TUBE (5/8" OD x 28-3/4")
118	PGF-10161-8	1	ELBOW (not used with hydraulic outriggers shown on separate page)
119	HCF-8287	1	## TUBE (3/4" OD x 33")

Note: @@ Includes two Ref. U, and two Ref. V.

& Includes two Ref. D, and two Ref. F.

** Includes two Ref. W, and two Ref. X.

\$ Includes two Ref. H, and two Ref. J.

Cranes 410-350 and up.

% Includes two Ref. K, and two Ref. L.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
120	HCF-7416	1	% TUBE (3/4" OD x 42-7/8")
121	HCF-7420	1	\$ TUBE (5/8" OD x 91-1/2")
122	HCF-1568-6	2	UNION, adapter
123	PGF-9812-7	2	UNION, coupling
124	HCF-1592-7	1	TEE
125	PGF-12292-3	1	TEE
126	563009	1	ELBOW, street 90°
127	HCF-1537	1	HOSE (2-3/8" OD x 4")
128	034016	4	CLAMP, hose
129	HCF-1610	1	NIPPLE
130			CRANE MAIN RELIEF VALVE (see separate page)
131	532185	1	NIPPLE
132			STEERING AND OUTRIGGER RELIEF VALVE (see separate page)
133	HCF-3131	1	HOSE, hydraulic (45" overall length)
134	HCF-8001	1	TUBE, suction
135	HCF-7414	1	\$ TUBE (5/8" OD x 93-3/8")
136	HCF-7528	1	% TUBE (3/4" OD x 27-11/16)
137	PGF-10185-8	1	TEE (not used with hydraulic outriggers shown on separate page)
138	HCF-7426	1	% TUBE (3/4" OD x 88-1/4")
139	PGF-10310-7	2	CONNECTOR
140	PGF-10104-4	2	ELBOW
141	HCF-2917	2	HOSE, hydraulic (23" overall length)-(for driving rear axle)
142	HCF-3109	1	HOSE, hydraulic (21-1/2" overall length)-(for non-driving rear axle)
143	HCF-2918	1	HOSE, hydraulic (29" overall length)-(for non-driving rear axle)
144			REAR STEER RAM (see separate page)
145			STEERING AND OUTRIGGERS PUMP (see separate page)
146	532183	1	NIPPLE
147	534015	1	BUSHING, reducer
148	HCF-5322	1	HOSE, hydraulic (26-1/2" overall length)
149	HCF-5264-5	4	CLAMP, SAE split flange
150	HCF-5265-5	1	PLATE, connection
151	PGF-9648-61	2	"O" RING (2-1/8" OD) split flange clamp
152	HCF-10481	1	TUBE (1/4" OD x 73")-(includes Ref. 188)
153	HCF-10528	1	HOSE, hydraulic (78" overall length)
154			HYDRAULIC OIL TANK AND COVER (includes Ref. Nos. 154A to 154L inclusive)
154A	HCF-10839	1	OIL TANK
154B	HCF-10838	1	COVER
154C	HCF-10837	1	GASKET
154D	HCF-9051	1	STRAINER
154E	HCF-9056	1	GASKET
154F	HCF-9053	1	FILTER
154G	HCF-9054	1	SPRING
154H	HCF-9055	1	WASHER
154J	721003	20	NUT
154K	765004	20	WASHER

Note:: % Includes two Ref. K, and two Ref. L.

\$ Includes two Ref. H, and two Ref. J.

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
154L	778011	20	WASHER, lock
155	PGF-9374	1	CAP
156	810005	1	PLUG
157	HCF-1358	1	GAUGE, oil level
158	810001	1	PLUG, drain
159	HCF-5940	1	FILTER, oil
160	HCF-5938	1	ADAPTER, oil filter
161	522009	1	ELBOW, 90° oil filter
162	532359	1	NIPPLE, oil filter
163			CRANE PUMP (regular - 48 gallon)-(see separate page)
164	HCF-10833	1	POPPET
165	HCF-8462	1	HOSE, hydraulic (22-1/2" overall length)
166	HCF-10835-24	1	RING, snap
167	HCF-9708	1	TUBE (1-1/2" OD x 18-5/8")-(includes two Ref. S, and two Ref. T)
168	HCF-1595-8	1	ELBOW, swivel, 90°
169	PGF-12288-2	1	ELBOW, swivel, 45°
170	HCF-7433	1	HOSE, hydraulic (30" overall length)
171	HCF-10705	1	TUBE (1-1/2" OD x 17-5/8")
172	HCF-5265-4	6	FLANGE, split
173	PGF-9648-62	1	"O" RING (1-3/4" OD) split flange clamp
174			CRANE PUMP (special - 73 gallon)-(see separate page)
175	HCF-5264-6	6	CLAMP, SAE split flange
176	PGF-9648-75	3	"O" RING
177	HCF-5264-4	1	CLAMP, split flange
178	HCF-7905	1	CLAMP
179	HCF-9276	1	SUPPORT
180	HCF-8330	1	PLATE, data
181	525002	1	COUPLING
182	532139	1	NIPPLE
183	532048	1	NIPPLE
184	HCF-10951	1	HOSE, hydraulic (66" overall length)
185	HCF-10234	1	TUBE (1" OD x 29-3/4")-(includes two each of Ref. M and N)
186	PGF-9812-8	2	# UNION, coupling
187	HCF-8288	1	%# TUBE (3/4" OD x 10")
188	HCF-1598-6	2	ELBOW
189	HCF-9754	1	HOSE ASSEMBLY

Note: # Cranes 410-350 and up.

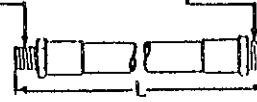
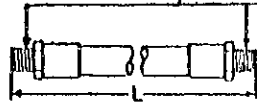
% Includes two Ref. K, and two Ref. L.

FACTORY ATTACHED CONNECTIONS

Note: In ordering hose always be governed by the overall length. See (L).

3/8"-18 NPTF FOR 3/8" HYD. HOSE
 1/2"-14 NPTF FOR 1/2" HYD. HOSE
 3/4"-14 NPTF FOR 3/4" HYD. HOSE
 1"-11-1/2 NPTF FOR 1" HYD. HOSE
 1-1/4"-11-1/2 NPTF FOR 1-1/4" HYD. HOSE

15/16"-16UN THD. FOR 1/2" HYD. HOSE
 * 1-5/16"-16UN THD. FOR 3/4" & 1" HYD. HOSE
 1-1/2"-16UN THD. FOR 1" HYD. HOSE
 * 1-5/8"-16UN THD. FOR 1" & 1-1/4" HYD. HOSE
 1-7/8"-16UN THD. FOR 1-1/4" HYD. HOSE



3/8" I.D. HYD. HOSE		3/8" I.D. HYD. HOSE			
Length (L)	Part No.	Length (L)	Part No.	Length (L)	Part No.
43"	HCF-7617				
1/2" I.D. HYD. HOSE		1/2" I.D. HYD. HOSE			
21-1/2"	HCF-3109	22"	PGF-9442		
23"	HCF-2917	32"	HCF-3389		
29"	HCF-2918				
45"	HCF-3131				
67"	HCF-2915				
85"	HCF-7400				
63"	HCF-2920				
73"	HCF-10263				
3/4" I.D. HYD. HOSE		3/4" I.D. HYD. HOSE			
		30"	% HCF-7433		
With Number Stamped on Hose Coupling - Both Ends (Order by Length and Stamping)					
	NO.		NO.		NO.
		43"	1	59"	3
		43"	5	42"	4
		46"	4	49"	3
		50"	6	53"	5
		53"	2	53"	1

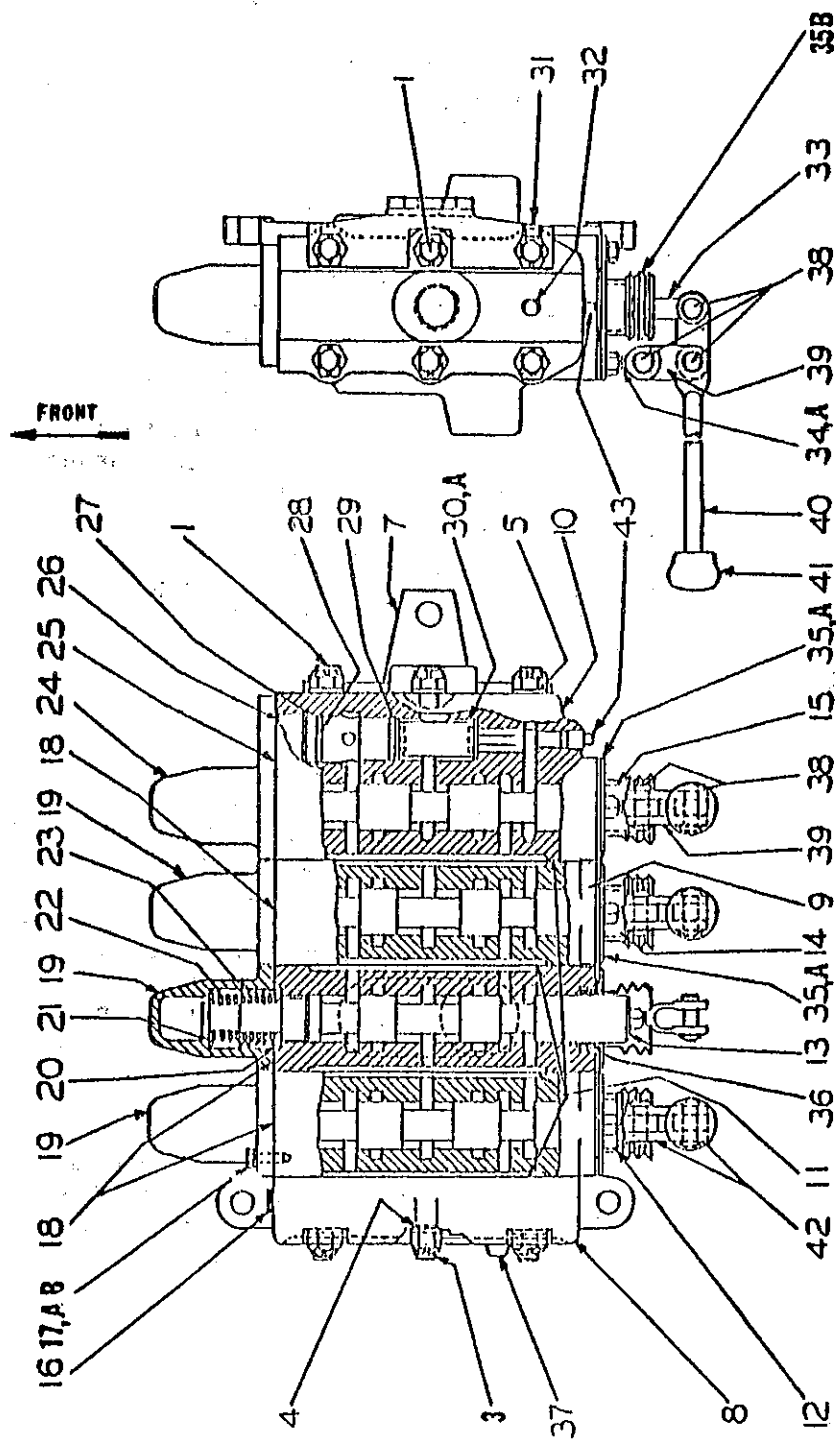
HYDRAULIC HOSE CHART

Note: % 1-1/16"-16UN THD. on Hose HCF-7433 only

C

C

C



O-OA

(For Part Numbers,
see next page)

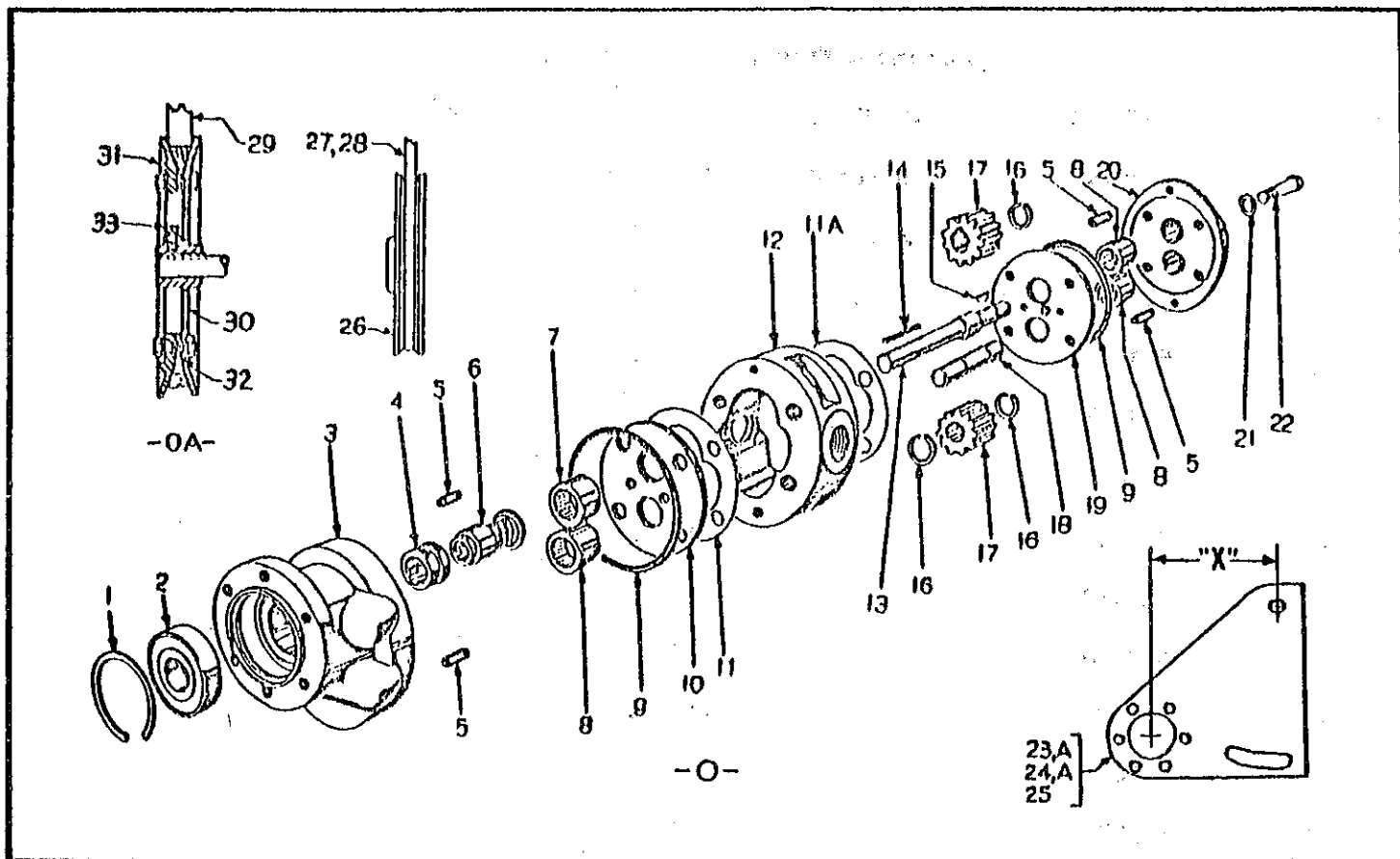
CRANE HYDRAULIC CONTROL VALVE

CRANE HYDRAULIC CONTROL VALVE
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1141	1	% VALVE BANK GROUP WITH LEVERS, complete
0A	HCU-1005	1	% VALVE BANK GROUP LESS LEVERS (includes Ref. Nos. 1 to 37 inclusive except Ref. Nos. 17, 34 and 35)
1		6	* ROD, tie
3		12	* NUT, hex lock
4		12	* O-RING
5		9	* WASHER, tie rod
7		1	* SUPPORT, valve body
8		1	* END, valve body
9		3	* BODY, valve
10		1	* BODY, valve
11		4	* GASKET, valve body
12		1	* SPOOL, valve (movable)
13		1	* SPOOL, valve (movable)
14		1	* SPOOL, valve (movable)
15		1	* SPOOL, valve (movable)
16	812002	1	PLUG, pipe, countersunk head
17	916150	18	SCREW, machine, with lock washer (5/16-18 threads)
17A	741318	18	BOLT (3/8-16 threads)
17B	778011	18	WASHER, lock (3/8)
18	HCF-1549	3	GASKET, valve spring cap
19	HC-170	3	CAP, valve spring
20	HCF-2921	4	WASHER
21	HCF-221	4	WASHER
22	HCF-816	4	SPRING, valve
23	HCF-2922	4	SLEEVE
24	HC-208	1	CAP, valve spring
25	HCF-2111	1	GASKET, valve spring cap
26	HCF-2104	1	PLUG, flow regulator
27	HCF-2099	1	RETAINER, flow regulator
28	PGF-9648-39	1	O-RING
29	PGF-9648-3	1	O-RING
30	HCF-2508	1	FLOW REGULATOR (includes Ref. No. 29) (for 48 gallon pump)
30A	HCF-6002	1	FLOW REGULATOR (includes Ref. No. 29) (for 73 gallon pump)
31	812000	3	PLUG, pipe, countersunk head
32	810001	2	PLUG, pipe
33	HCF-212	4	YOKE
34	HCF-217	4	EYEBOLT (with 7/16-14 threads)
34A	HCF-6027	4	EYEBOLT (with 3/8-16 threads)
35	HCF-583	4	CAP (when boot Ref. 35B is not used)
35A	HCF-5024	4	CAP (used with boot Ref. 35B)
35B	SFF-1400	4	BOOT
36	HCF-3821	8	SEAL, oil
37	HCF-2069	1	PLUG, pipe
38	783005	12	PIN
39	HCF-1400	8	LINK
40	HCF-7399	4	LEVER, control
41	PG-1400	4	BALL, control lever
42	HCF-3664	As req'd	SHIM (.010)
43	810002	1	PLUG, pipe

Note: % When ordering HCU-1141 or HCU-1005 always specify crane main pump capacity.

* Indicates parts not sold separately. Order Ref. 0A, HCU-1005 valve bank group less levers from your nearest Austin-Western distributor.



HYDRAULIC PUMP AND PULLEY FOR STEERING AND OUTRIGGERS

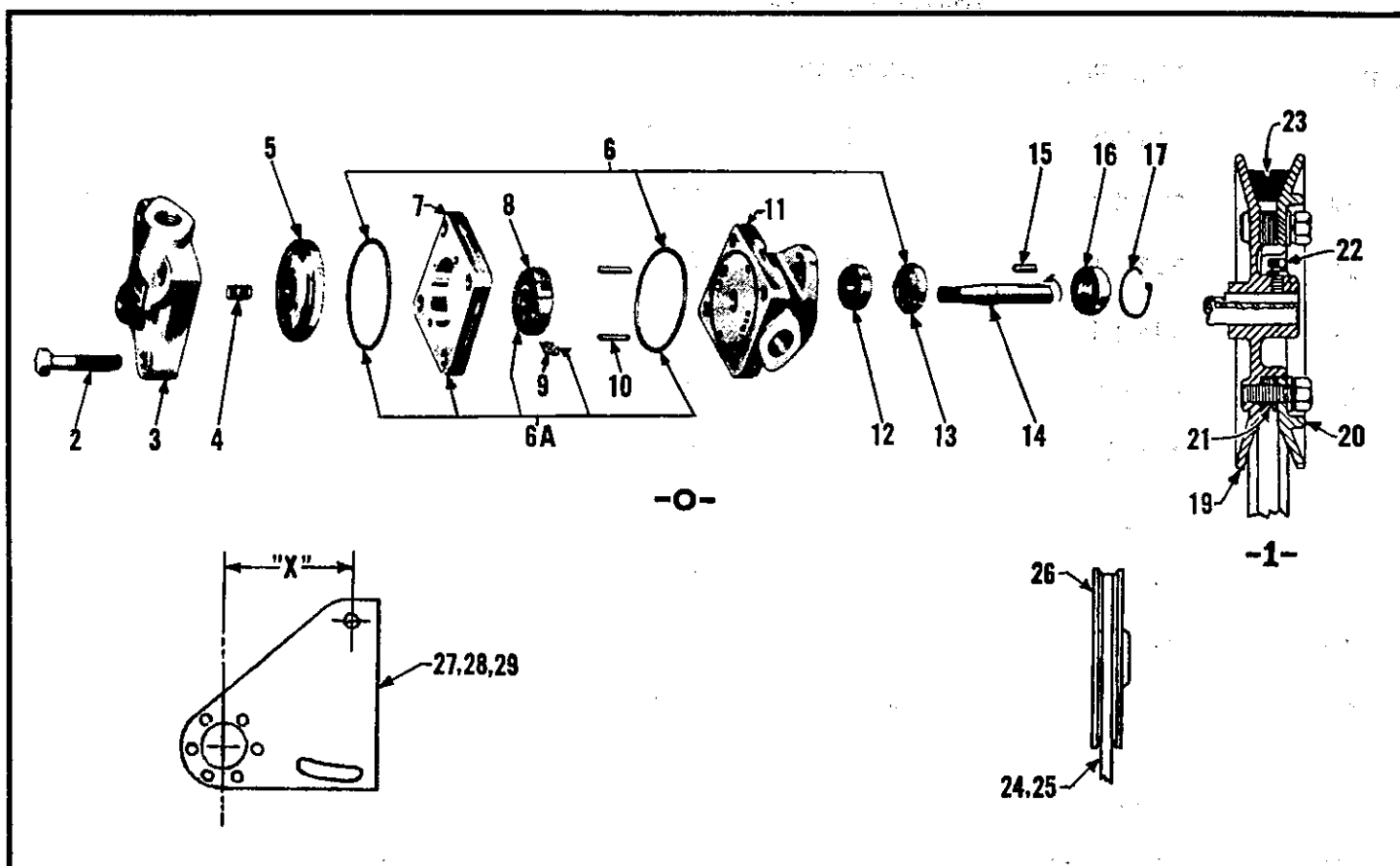
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGF-15081	1	HYDRECO PUMP GROUP - model 1515T19B2 includes Ref. Nos. 1 to 22 inclusive)- (superseded by HCF-10089 - but for complete new pump order HCF-10088)
0A	PGUS-9161	1	PULLEY GROUP (includes Ref. Nos. 30, 31, 32 and 33)-(for GMC-3-71 engine)
1	513066	1	RING, snap
2	513067	1	BEARING
3	513068	1	ADAPTER
4	513069	1	SEAT, seal
5	513070	4	PIN, dowel
6	513199	1	SEAL ASSEMBLY
7	513037	1	BEARING
8	513036	3	BEARING
9	513072	2	RING, seal
10	513073	1	PLATE, wear

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
11	513074	As req'd	GASKET
11A	513075	As req'd	GASKET
12	513076	1	HOUSING
13	513198	1	SHAFT, drive
14	513078	1	KEY
15	513034	1	KEY
16	513053	3	RING, snap
17	513079	2	GEAR
18	513080	1	SHAFT, driven
19	513081	1	PLATE, wear
20	513082	1	COVER
21	513083	4	WASHER
22	513084	4	CAPSCREW
23	HCF-4718	1	SUPPORT, pump, for Ford engines ("X"-5-11/16")
23A	HCF-9707	1	SUPPORT, pump, for Ford 332 engine ("X"-4-9/16")
24	HCF-6625	1	SUPPORT, pump, for IHC. UB-264 and UD-282 engines ("X"-5-15/16")-(used with HCF-6633 support - see engine related parts page)
24A	HCF-8690	1	SUPPORT, pump, for IHC. engines ("X"-5-11/16")-(used with HCF-8691 support - see engine related parts page)
25	HCF-5051	1	SUPPORT, pump, for GMC-3-71 engine ("X"-4-5/8")
26	HCF-6259	1	PULLEY, for Ford and IHC. engines
27	HCF-6060	1	DRIVE BELT, for Ford engines
28	PGF-12161	1	DRIVE BELT, for IHC. engines
29	PGF-15154	1	DRIVE BELT, for GMC-3-71 engine
30	PG-921	1	FLANGE, pulley (inner)
31	PG-920	1	FLANGE, pulley (outer)
32	PGF-3923	2	SHIM
33	755030	1	SETSCREW, cup point

(included
in
Ref.
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HYDRAULIC PUMP AND PULLEY FOR STEERING AND OUTRIGGERS

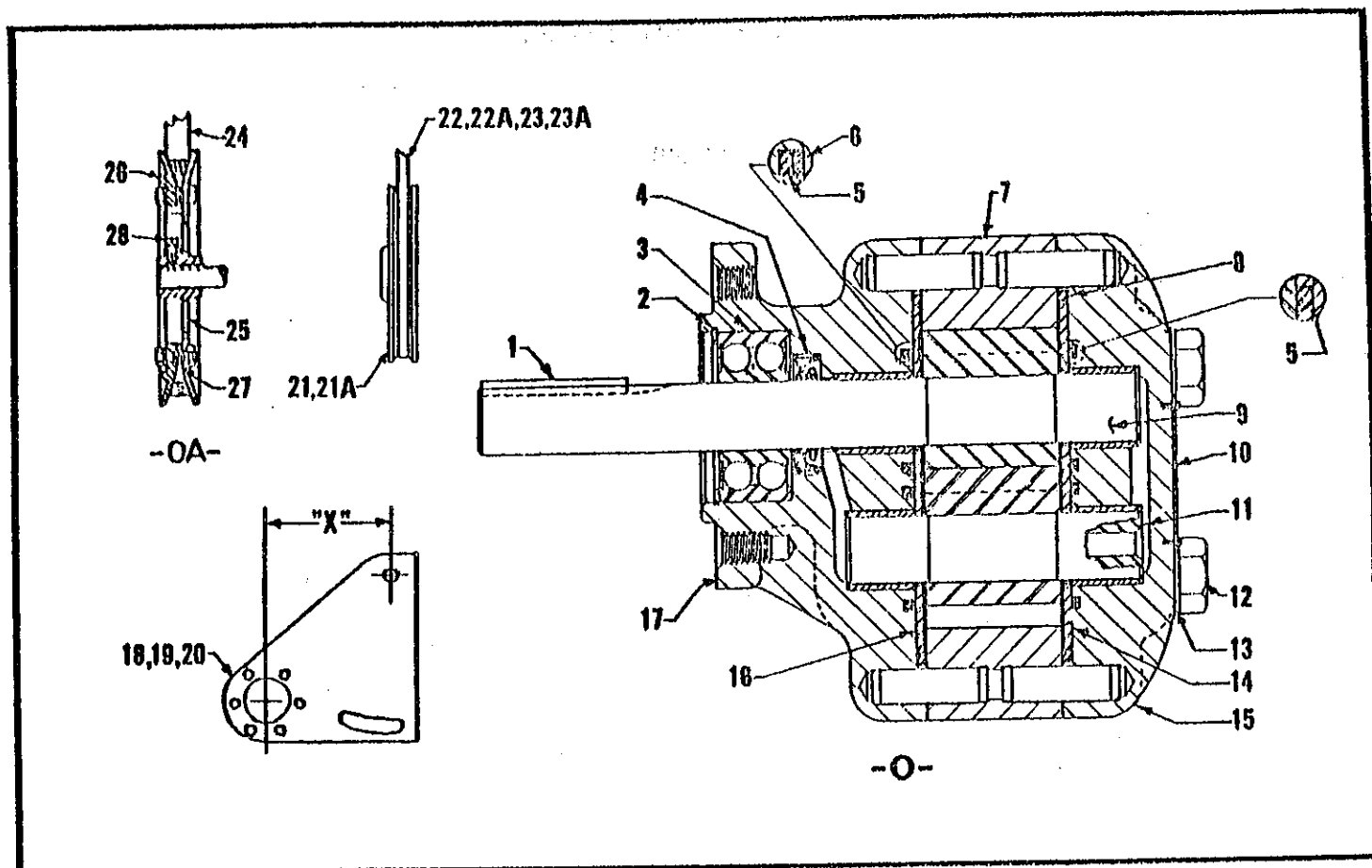
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-10089	1	PUMP GROUP, hydraulic (model V230-9-1A-12-S63, L.H. rotation)-(includes Ref. Nos. 2 to 17 inclusive)-(superseded by HCF-10088)
1	PGUS-9161	1	PULLEY GROUP (includes Ref. Nos. 19, 20, 21 and 22) (for GMC-3-71 engine)
2	503201	4	CAPSCREW
3	503116	1	COVER
4	503087	1	SPRING
5	503380	1	PLATE, pressure
6	503488	1	GASKET KIT
6A	503490	1	CARTRIDGE KIT
7	503489	1	RING
8	503369	1	ROTOR
9	503172	1	VANE KIT (12 vanes)
10	503192	2	PIN

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
11	503098	1	BODY
12	503008	1	BEARING, ball
13	503101	1	SEAL, oil
14	503093	1	SHAFT
15	503032	1	KEY, shaft
16	503064	1	BEARING, ball
17	503083	1	RING, snap
19	PG-921	1	FLANGE, pulley (inner)
20	PG-920	1	FLANGE, pulley (outer)
21	PGF-3923	As req'd	SHIM (4 supplied in PGUS-9161 pulley group)
22	755030	1	SETSCREW, cup point
23	PGF-15154	1	DRIVE BELT, for GMC-3-71 engine
24	PGF-12161	1	DRIVE BELT, for IHC. engines
25	HCF-6060	1	DRIVE BELT, for Ford engines
26	HCF-6259	1	PULLEY, for Ford and IHC. engines
27	HCF-9707	1	SUPPORT, pump, for Ford 332 engine ("X"=4-9/16")
28	HCF-8690	1	SUPPORT, pump, for IHC. engines ("X"=5-11/16")
29	HCF-5051	1	SUPPORT, pump, for GMC-3-71 engine ("X"=4-5/8")

(in-cluded in Ref. 1)



HYDRAULIC PUMP AND PULLEY FOR STEERING AND OUTRIGGERS

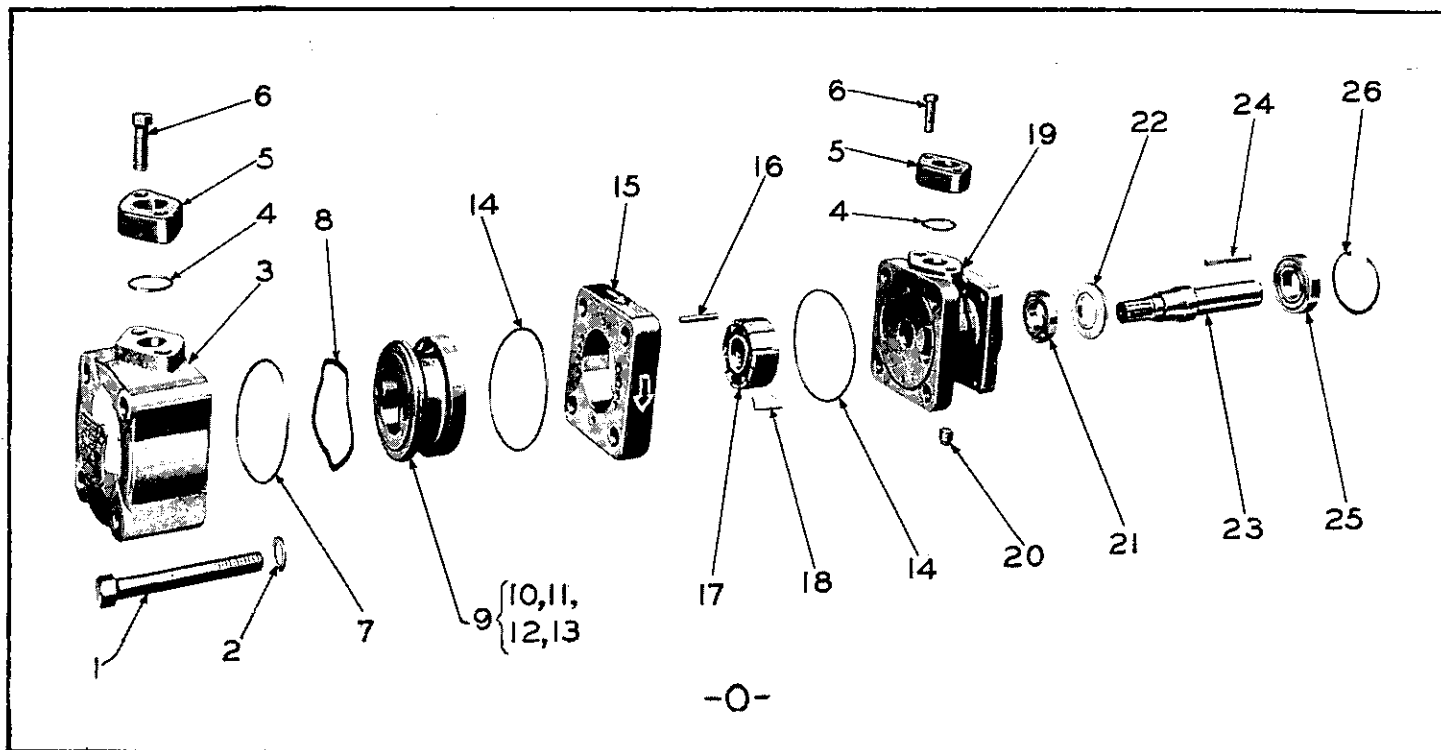
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-10088	1	HYDRECO PUMP GROUP - model 1515C12H3DL (includes Ref. Nos. 1 to 17 inclusive)
OA	PGUS-9161	1	PULLEY GROUP (includes Ref. Nos. 25, 26, 27 and 28) - (for GMC-3-71 engine)
1	513078	1	KEY
2	513298	1	RING, retainer
3	513295	1	BEARING, ball
4	513300	1	SEAL
5	513299	6	"O" RING
6	513296	3	RING, back-up
7	513290	1	HOUSING ASSEMBLY WITH DOWELS
8	513072	2	"O" RING
9	513291	1	DRIVE SHAFT ASSEMBLY

(continued)

(Continued from preceding page)

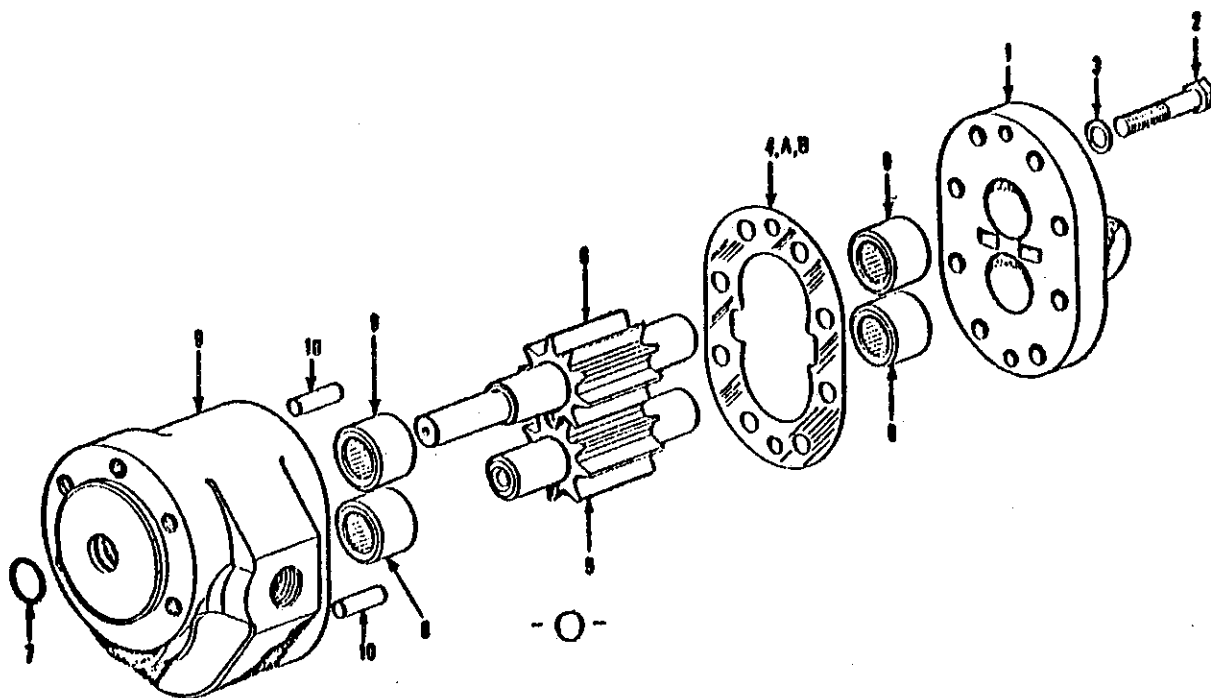
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
10	513293	1	PLATE, name
11	513292	1	DRIVEN SHAFT ASSEMBLY
12	513294	4	CAPSCREW
13	513297	4	WASHER
14	513288	1	PLATE, wear
15	513287	1	COVER ASSEMBLY WITH BUSHINGS
16	513289	1	PLATE, wear
17	513311	1	ADAPTER ASSEMBLY WITH BUSHINGS
18	HCF-9707	1	SUPPORT, pump, for Ford 332 engine ("X"=4-9/16")
19	HCF-8690	1	SUPPORT, pump, for IHC. engines ("X"=5-11/16")
20	HCF-5051	1	SUPPORT, pump, for GMC-3-71 engine ("X"=4-5/8")
21	HCF-6259	1	PULLEY, for Ford and IHC. engines
21A	HCF-10028	1	PULLEY, for Ford and IHC. engines
22	HCF-6060	1	DRIVE BELT, for Ford engines
22A	HCF-10075	1	DRIVE BELT, for Ford engines
23	PGF-12161	1	DRIVE BELT, for IHC. engines
23A	HCF-10076	1	DRIVE BELT, for IHC. engines
24	PGF-15154	1	DRIVE BELT, for GMC-3-71 engine
25	PG-921	1	FLANGE, pulley (inner)
26	PG-920	1	FLANGE, pulley (outer)
27	PGF-3923	2	SHIM
28	755030	1	SETSCREW, cup point

(included
in
Ref.
OA)



CABLE HOIST HYDRAULIC MOTOR

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-2802	1	VICKERS MOTOR GROUP - model M2-540-150-6FC-13 (includes Ref. Nos. 1 to 26 inclusive)
1	503114	4	SCREW
2	503053	4	WASHER
3	503280	1	COVER
4	503143	2	SEAL
5	503153	2	FLANGE
6	503004	4	SCREW
7	503149	1	SEAL
8	503128	1	SPRING
9	503279	1	PRESSURE PLATE GROUP (includes Ref. Nos. 10, 11, 12 and 13)
10	503007	2	BALL CHECK
11	503200	2	PLUG
12	503124	2	SEAT
13	503137	2	PIN
14	503150	2	SEAL
15	503281	1	RING
16	503047	2	PIN
17	503163	1	ROTOR GROUP
18	503177	1	VANE KIT (12 vanes)
19	503282	1	BODY
20	503048	1	PLUG
21	503045	1	BEARING
22	503112	1	SEAL
23	503113	1	SHAFT
24	503031	1	KEY
25	503096	1	BEARING
26	503097	1	RING, snap



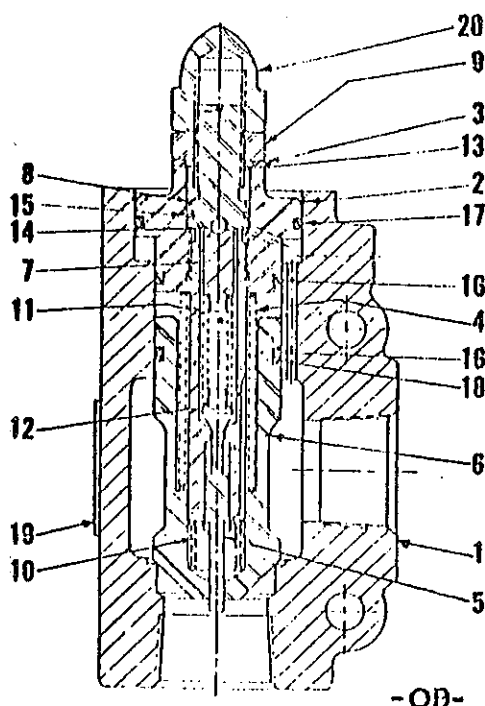
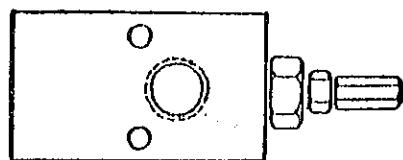
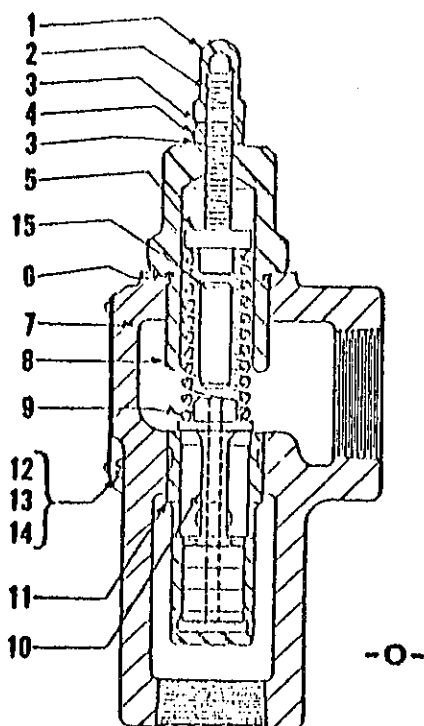
BOOM SWING HYDRAULIC MOTOR

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-4999	1	PESCO MOTOR GROUP - model 051725-030-01 (includes Ref. Nos. 1 to 10 inclusive)
1	500001	1	COVER
2	500002	8	CAPSCREW
3	500003	8	WASHER
4	500004	As req'd	SHIM (.001)
4A	500005	As req'd	SHIM (.0015)
4B	500006	As req'd	SHIM (.003)
5	500007	1	GEAR, driven
6	500008	1	GEAR, drive
7	500009	1	RING, seal
8	500010	4	BEARING, needle
9	500011	1	BODY
10	500012	2	PIN, dowel

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CRANE HYDRAULIC
MAIN RELIEF VALVE

1st Type

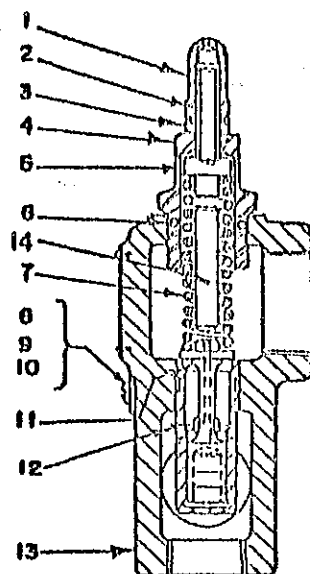
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-1535	1	RELIEF VALVE GROUP (includes Ref. Nos. 1 to 15 inclusive)
1	513044	1	NUT, acorn
2	513032	1	SCREW, adjusting
3	513052	2	WASHER
4	513033	1	NUT, jam
5	513043	1	GUIDE, spring
6	513039	1	RING, seal
7	513055	1	HOUSING, valve
8	513056	1	CAP, valve
9	513217	1	SPRING, valve
10	513059	1	PLUNGER, valve
11	513058	1	SEAT, valve
12	513060	1	SETSCREW
13	513061	1	SCREW, machine
14	513062	1	GASKET
15	513232	1	PIN

2nd Type

0A	HCF-7336	1	RELIEF VALVE GROUP
1	HCF-9205	1	CARTRIDGE (for Ref. 0A)

3rd Type

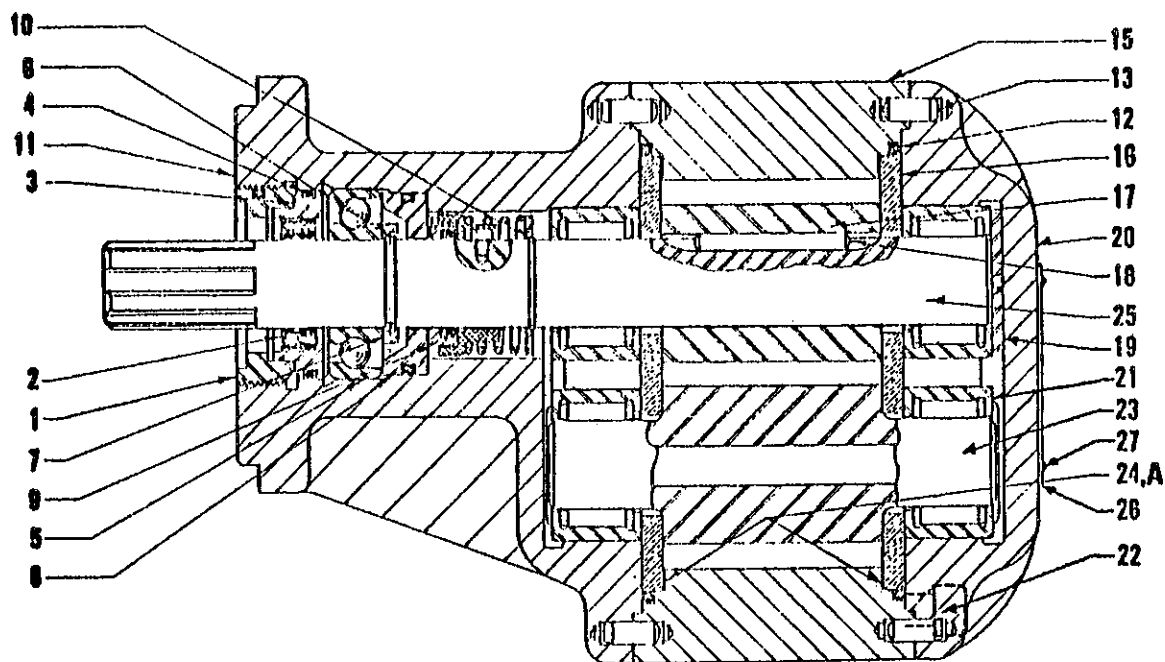
0B	HCF-9746	1	RELIEF VALVE GROUP includes Ref. Nos. 1 to 20 inclusive)
1	501001	1	BODY, valve
2	501002	1	RING, retaining
3	501003	1	SLEEVE, valve
4	501020	1	SPRING
5	501021	1	PIN, metering
6	501022	1	PISTON, valve
7	501007	1	RETAINER, spring
8	501008	1	SCREW, adjusting
9	501019	1	NUT, jam
10	501024	1	SPRING
11	501010	1	SPRING
12	501011	1	VALVE, poppet
13	501012	1	RING, snap
14	501015	1	BALL
15	501009	1	"O" RING
16	501013	2	"O" RING
17	501014	1	"O" RING
18	501023	1	RING, back-up
19	501017	1	PLATE, name
20	501018	1	NUT, acorn



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**HYDRAULIC RELIEF VALVE
(For Steering and Outriggers)**

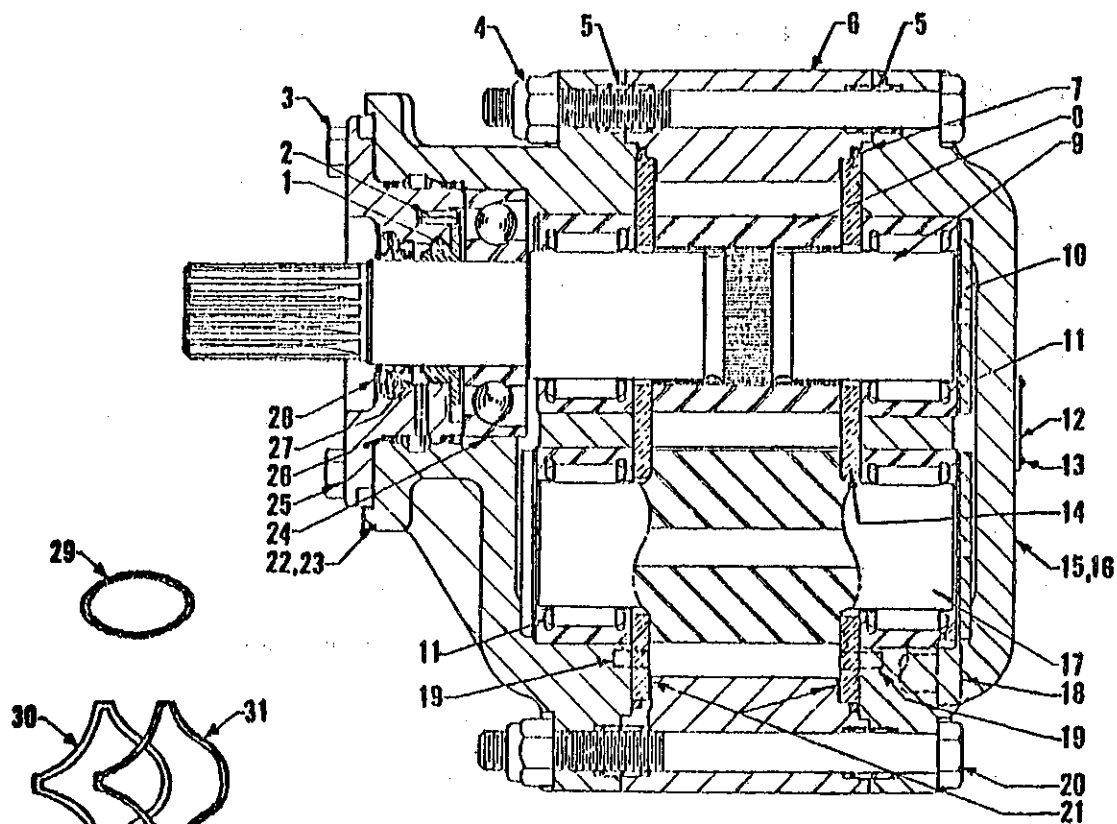
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-4825	1	RELIEF VALVE GROUP (includes Ref. Nos. 1 to 14 inclusive)
1	513044	1	NUT, acorn
2	513031	1	SCREW, adjusting
3	513033	1	NUT, jam
4	513049	1	CAP, valve
5	513042	1	GUIDE, spring
6	513038	1	RING, seal
7	513214	1	SPRING, valve
8	513065	1	SETSCREW
9	513061	1	SCREW, machine
10	513062	1	GASKET
11	513041	1	PLUNGER, valve
12	513063	1	SEAT, valve
13	513216	1	HOUSING, valve
14	513215	1	PIN



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CRANE MAIN HYDRAULIC PUMP (REGULAR) - 48 G.P.M.

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-8420	1	HYDRECO PUMP GROUP - Model 2025A4A2AL (includes Ref. Nos. 1 to 27 inclusive)
1	513242	1	RETAINER, bearing
2	513251	1	SEAL
3	513244	1	SLEEVE, seal
4	513250	1	"O" RING
5	513249	1	BEARING
6	513243	1	RING, snap
7	513248	1	RETAINER, ring
8	513241	1	SEAL SEAT ASSEMBLY
9	513240	1	SEAL ASSEMBLY
10	513142	1	RING, snap
11	513236	1	ADAPTER
12	513137	2	"O" RING
13	513070	4	DOWEL
14	513136	4	"O" RING - in adapter and cover
15	513235	1	HOUSING
16	513132	2	PLATE, wear
17	513239	1	GEAR, drive
18	513252	1	DOWEL
19	513245	1	WASHER, thrust
20	513237	1	COVER
21	513246	4	BEARING
22	513134	4	CAPSCREW
23	513129	1	GEAR, driven
24	513140	As req'd	SHIM (.001)
24A	513141	As req'd	SHIM (.002)
25	513238	1	SHAFT, drive
26	513247	1	PLATE, name
27	513135	4	SCREW, drive (for Ref. No. 26)
28	HCF-8417	1	SUPPORT, pump (not shown) (for all engines except Ford 272)



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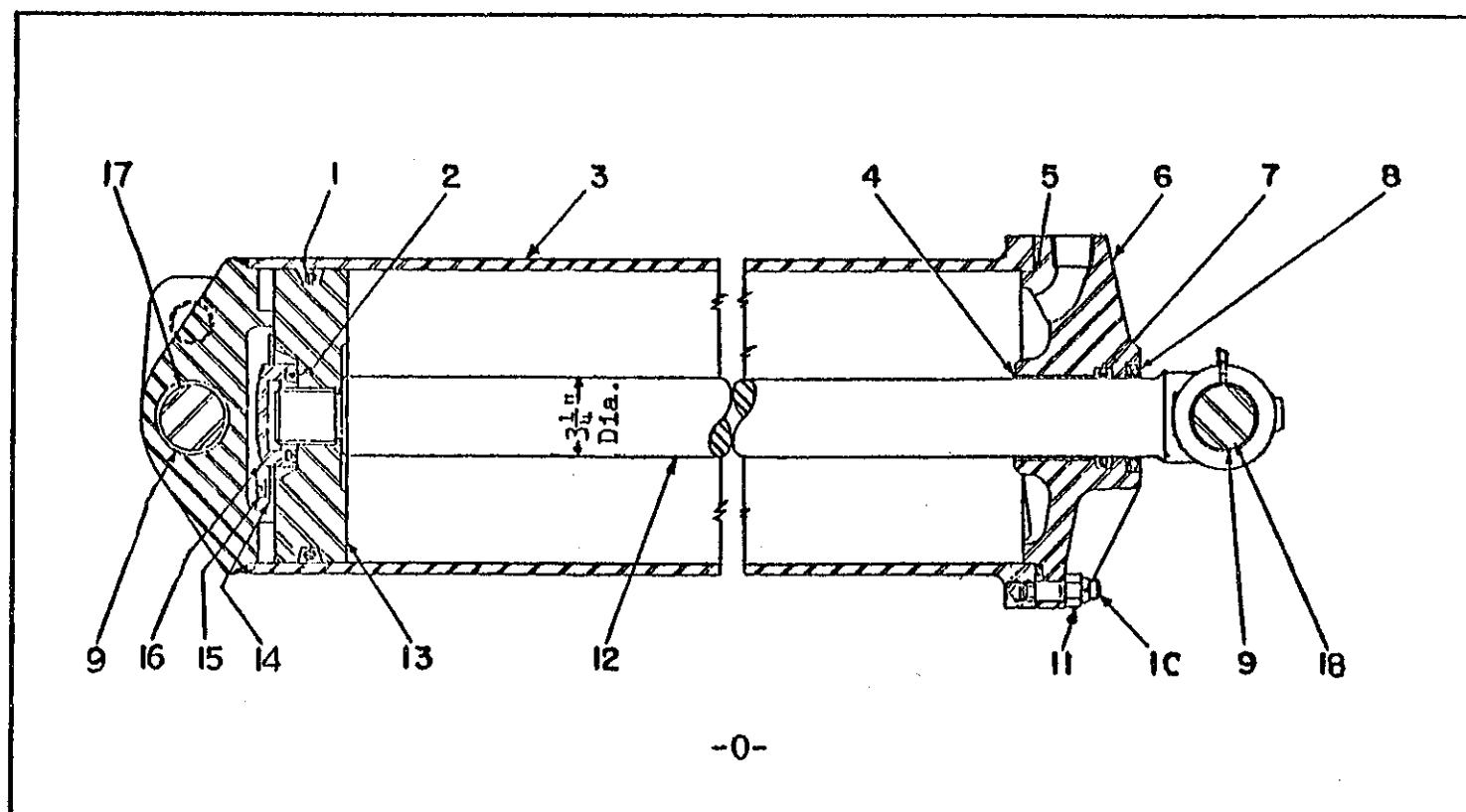
CRANE MAIN HYDRAULIC PUMP (SPECIAL) - 73 G.P.M.

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCF-9755	1	HYDRECO PUMP GROUP - Model 3020K20J2 (includes Ref. Nos. 1 to 31 inclusive)
1	513270	1	BUSHING, seal
2	513280	1	PIN, roll
3	513276	6	CAPSCREW
4	513279	2	NUT
5	513308	4	DOWEL
6	513263	1	HOUSING
7	513170	2	"O" RING
8	513268	1	GEAR
9	513267	1	SHAFT, drive

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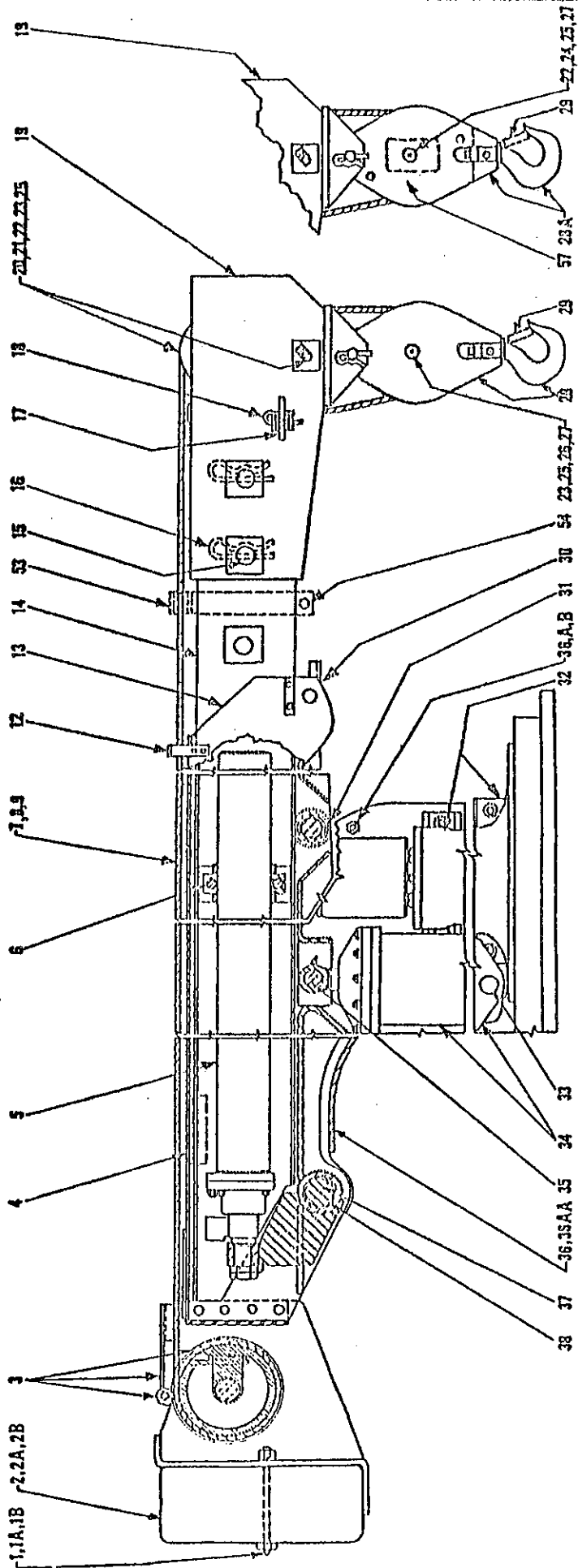
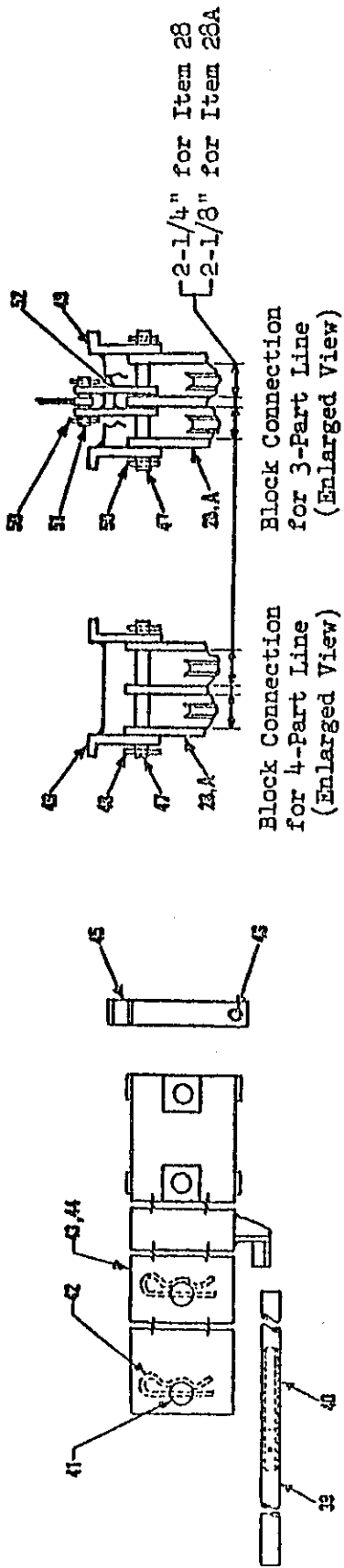
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
10	513305	2	WASHER, thrust
11	513306	4	BEARING
12	513247	1	PLATE, name
13	513135	4	SCREW, drive, name plate
14	513158	2	PLATE, wear
15	513266	1	COVER GROUP (includes Ref. Nos. 5,10,11, 16 and 19)
16	513304	1	COVER
17	513269	1	GEAR, driven
18	513281	4	CAPSCREW, socket head
19	513307	2	PIN, roll
20	513284	2	CAPSCREW
21	513271	As req'd	SHIM
22	513265	1	ADAPTER GROUP (includes Ref. Nos. 5,11, 19 and 23)
23	513309	1	ADAPTER
24	513169	1	BEARING
25	513272	1	RETAINER, seal
26	513165	2	"O" RING
27	513282	1	SEAL
28	513274	1	SEAL
29	513275	2	"O" RING
30	513285	2	RING, back-up
31	513283	2	RING, seal
32	HCF-5199	1	SUPPORT, pump (not shown) (for INCo. engines)
33	HCF-7390	1	SUPPORT, pump (not shown) (for Ford and GMC-3-71 engines)



BOOM LIFT RAM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1138	1	BOOM LIFT RAM GROUP (includes Ref. Nos. 1 to 16 inclusive)
1	PGF-9648-54	1	O-RING
2	PGF-9648-55	1	O-RING
3	HCF-7356	1	CYLINDER AND BASE
4	HCF-7202	1	BUSHING
5	PGF-9648-53	1	O-RING
6	HC-487	1	HEAD
7	PGF-9648-11	1	O-RING
8	194118	1	SEAL, oil
9	HCF-4609	4	BUSHING
10	HCF-4752	20	STUD
11	914007	20	NUT, huglock
12	HCF-7204	1	ROD
13	HCF-4507	1	PISTON
14	HCF-4809	1	PLATE, nut lock
15	822138	1	CAPSCREW, hex-socket head
16	HCF-4798	1	NUT
17	HCF-4500	1	SHAFT, pivot
18	HCF-4528	1	SHAFT, pivot



(For Part Numbers, see next page)

CRANE BOOM, EXTENSIONS, SHIPPER AND PARTS

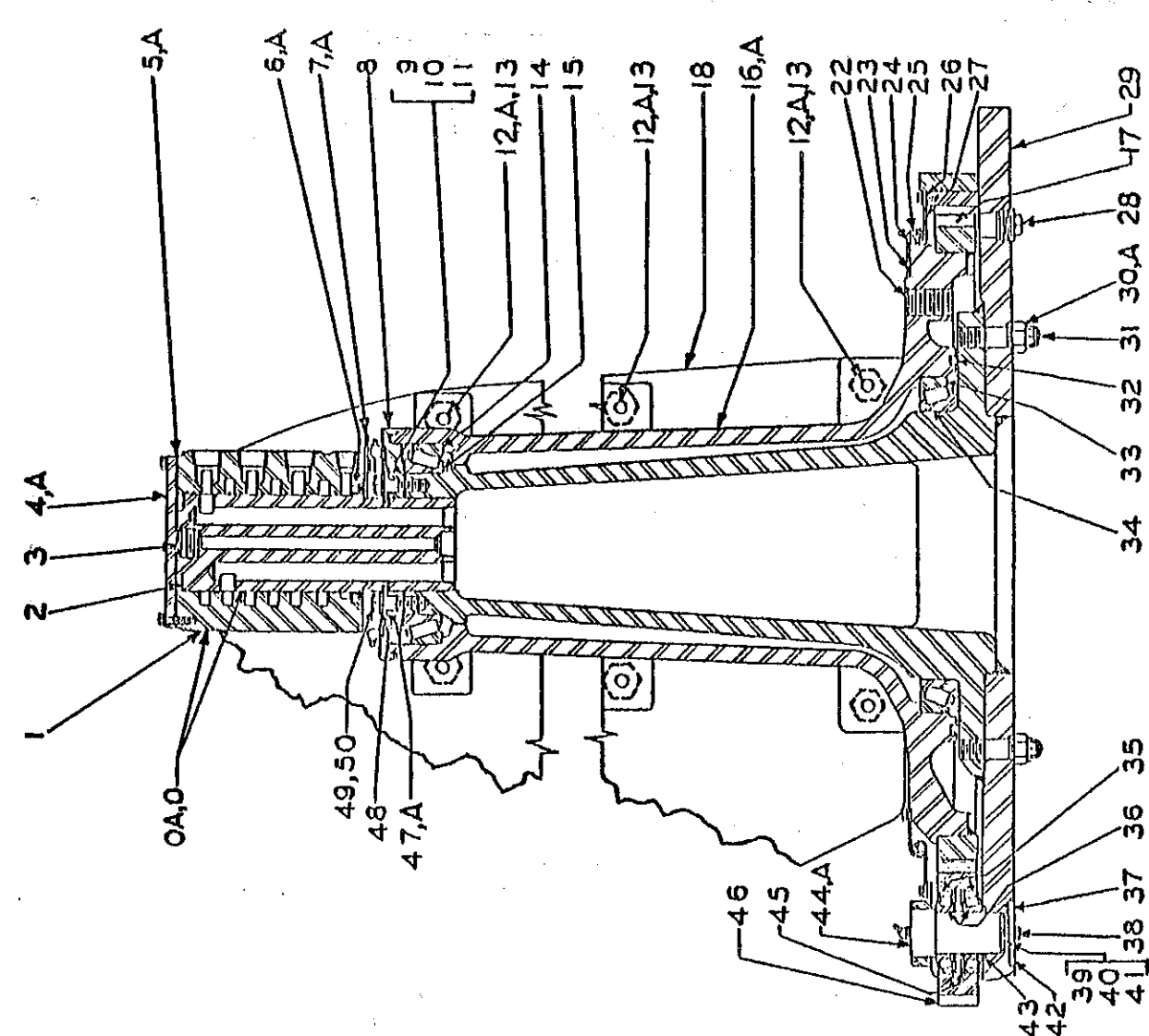
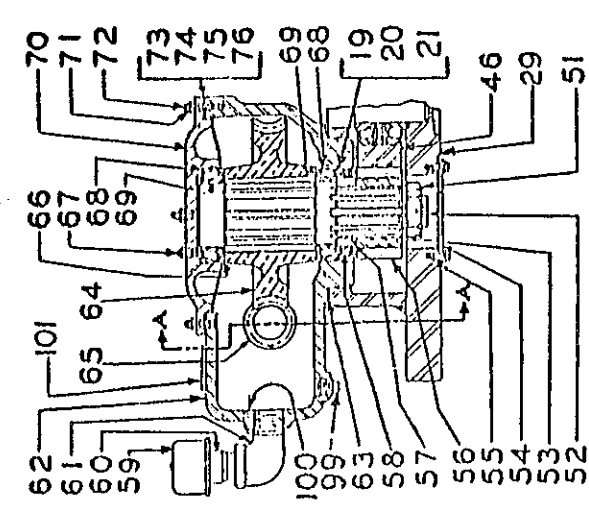
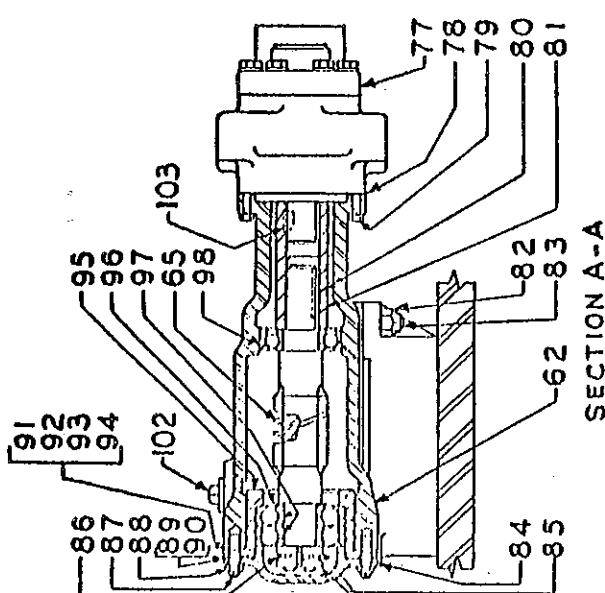
CRANE BOOM, EXTENSIONS, SHIPPER AND PAINTS
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-5180	3	BOLT, counterweight
1A	HCF-9637	2	BOLT, counterweight (for Ref. 2A)-(cranes 410-1728 and up)
1B	HCF-11015	2	BOLT, counterweight (for Ref. 2B)-(410 Sr.)
2	HC-483	1	COUNTERWEIGHT
2A	HCF-586	1	COUNTERWEIGHT
2B	HC-762	1	COUNTERWEIGHT (410 Sr.)
3			CABLE HOIST DRUM AND DRIVE GROUP
4			BOOM UPPER REAR SHOE GROUP
5			BOOM CROWD RAM GROUP
6			PIN, crowd ram support
7	HCF-6434	1	CABLE, hoist, 1/2 dia. x 210 ft. (1st type)
8	HCF-7565	1	CABLE, hoist, 1/2 dia. x 280 ft. (2nd type)
9	HCF-7664	1	CABLE, hoist, 1/2 dia. x 280 ft. (special - high strength)
12	HCF-7427	1	GUIDE, cable (shipper)
13	HCF-11512	1	SHIPPER
14	HCF-7517	1	BOOM
15	HCF-7090	2	PIN, boom point
16	HCF-1748	2	CLIP, boom point pin
17	HCF-7083	1	PIN, cable anchor
18	HCF-1733	1	CLIP, cable anchor pin
19	HCF-9616	1	POINT, boom
20	HCF-7084	2	PIN, sheave
21	HCF-7088	2	KEEPER, sheave pin
22	318534	2 or 4	BEARING, needle, sheave
23	HCF-10799	4	SHEAVE (for 1/2 dia. cable)-(order Ref. 24 and 2 additional Ref. 25 washers when ordering for Ref. 28 block)
24	HCF-11159	2	SHEAVE (for 1/2 dia. cable)
25	HCF-1201	8	WASHER, sheave
26	318472	4	BEARING, needle, sheave
27	HCF-4319	1	PIN WITH KEEPER, sheave
28	HCF-4320	1	BLOCK (without safety latch)-(2-1/4" spacing between plates)-(order Ref. Nos. 28A, 24 and 2 Ref. No. 22)
28A	HCF-11143	1	BLOCK (without safety latch)-(2-1/8" spacing between plates)
29	HCF-6207	1	SAFETY LATCH UNIT, hook
30			BOOM LOWER FRONT SHOE GROUP
31			BOOM LOWER ROLLER GROUP
32			PIVOT POST GROUP
33			SHAFT, pivot, lift ram
34			BOOM LIFT RAM GROUP
35			SHAFT, pivot, lift ram
36	HCF-7106	1	SHIPPER SUPPORT (includes Ref. Nos. 36A and 36B)
36AA	HCF-11252	1	SHIPPER SUPPORT (cranes 410-2892 and up)
36A	HCF-7031	1	SPACER, shipper support
36B	HCF-7001	1	STUD, shipper support
37	HCF-4500	1	SHAFT, pivot, shipper
38	HCF-4609	2	BUSHING, shipper pivot shaft
39	HCF-7437	1	TUBE, male section (manual extension)
40	HCF-7438	1	TUBE, female section (manual extension)
41	HCF-7539	2	PIN, boom extension
42	HCF-1748	2	CLIP, boom extension pin
43	HCF-7525	1	EXTENSION, 11 ft.
44	HCF-7524	1	EXTENSION, 23 ft.
45	HCF-7826	1	GUIDE, cable (for 23 foot boom extension)
46	HCF-7828	1	STUD, cable guide (for Ref. 45)
47	HCF-7446	1	PIN, block stop
48	HCF-1733	2	CLIP, pin
49	HCF-11240	1	STOP, block
50	HCF-1733	4	CLIP, pin
51	HCF-3421	1	PIN, bracket
52	HCF-4895	1	BRACKET, cable hook-on
53	HCF-7825	1	GUIDE, cable (used on boom only with 11 and 23 foot extensions)
54	HCF-7827	1	STUD, cable guide (for Ref. 53)
55	HCF-10660	1	GUARD, cable
56	742339	2	BOLT, boom point
57	HC-768	4	WEIGHT, hook block (for 11 and 23 foot boom extensions)

(see separate page)

(1st type)
(2nd type)

(see separate page)



(For Part Numbers,
see next page)

PIVOT POST AND SWING MECHANISM

PIVOT POST AND SWING MECHANISM
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCP-185-71	1	SWIVEL VALVE BODY WITH PLUG (includes Ref. Nos. 1 and 2)
0A	HCP-535	1	SWIVEL VALVE BODY WITH PLUG (incl. Ref. 1 and 2)-(cranes 410-2302 & up)
1		1	* BODY, valve
2		1	* PLUG, valve
3	164046	1	PLUG, expansion
4	HCF-2896	1	CAP, swivel valve (regular)
4A	HC-736	1	CAP, swivel valve (cranes 410-2302 and up)
5	HCF-1219	1	GASKET
5A	HCF-9679-1	2	"O" RING (cranes 410-2302 and up)
6	HCF-5091	1	SEAL, oil
6A	HCF-9679-3	1	"O" RING (cranes 410-2302 and up)
7	HCF-4541	1	GUIDE
7A	HCF-9724	1	GUIDE (cranes 410-2302 and up)
8	HC-295	1	CAP
9	HCF-4525	3	SHIM (.005)
10	HCF-4526	3	SHIM (.007)
11	HCF-4527	4	SHIM (.020)
12	HCF-4506	12	STUD, shipper support
12A	HCF-11251	12	STUD, shipper support (cranes 410-2892 & up)
13	914012	12	NUT, buglock
14	313460	1	CUP, bearing
15	319005	1	CONE AND ROLLERS, bearing
16	HGX-4329-70	1	PIVOT POST WITH GEAR AND CUP (includes Ref. Nos. 17 and 33)
16A	HCF-11254	1	PIVOT POST ASSEMBLY (cranes 410-2892 & up)
17	HCF-1396-1	1	GEAR, ring, pivot post (welded on)
18			SUPPORT, shipper (see separate page)
19	HCF-2260	3	SHIM (.005)
20	HCF-2261	3	SHIM (.007)
21	HCF-2262	1	SHIM (.020)
22	164040	2	PLUG, expansion
23	HCF-2073	1	GASKET
24	HCF-4852	1	RETAINER, felt
25	HCF-2319	1	FELT
26	HCF-2074	1	GASKET
27	HGX-2070	1	RETAINER, felt
28	810005	1	PLUG, pipe, drain

Note: * Indicates parts not sold separately. Order Ref. 0, HCP-185-71 or HCP-535 swivel valve body with plug from your nearest BLH Austin-Western Distributor.

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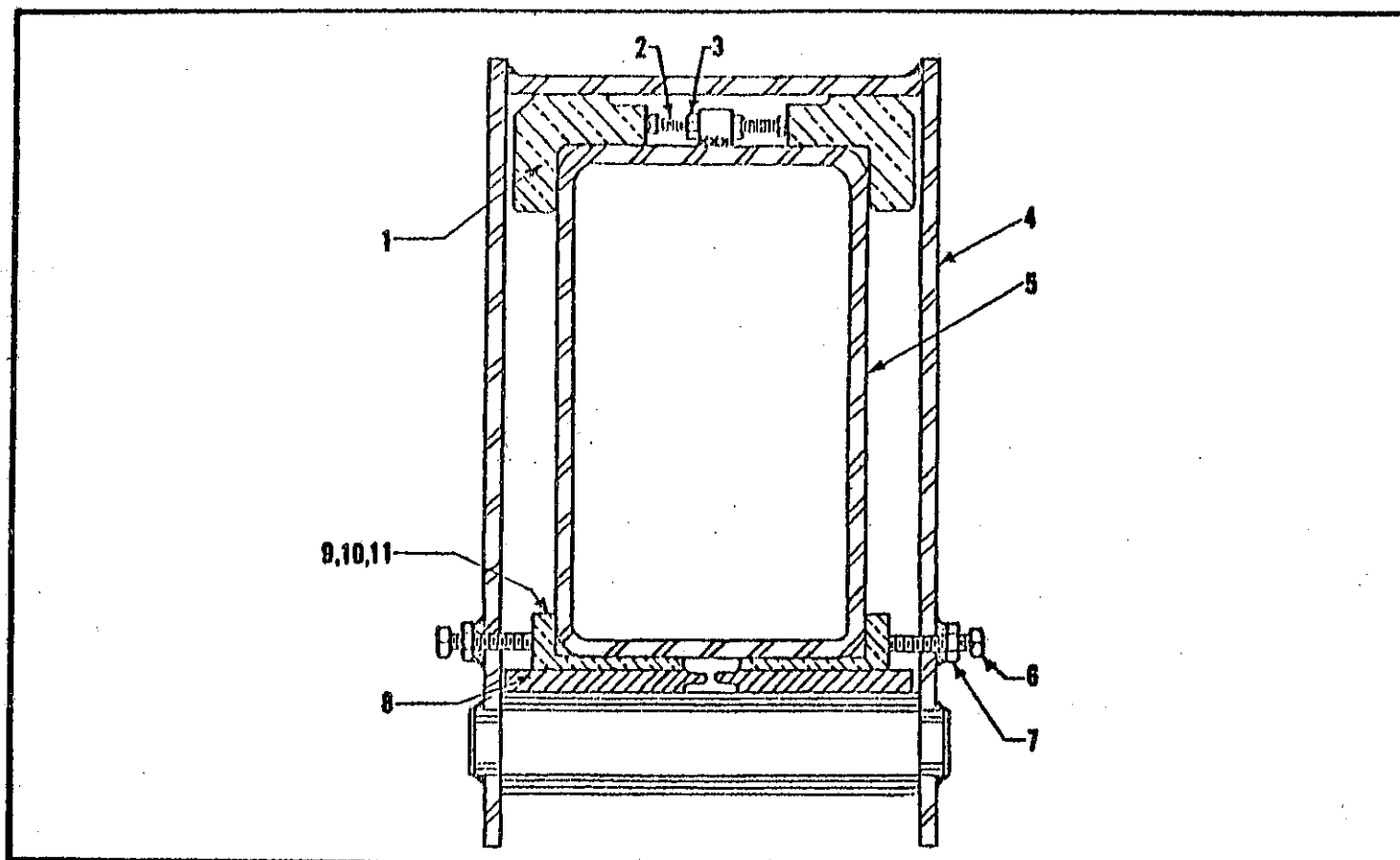
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
29	HCF-6424	1	BASE PLATE WITH PIVOT POST SUPPORT (includes Ref. Nos. 30 and 31)
30	914012	16	NUT, huglock
30A	HCF-11255	12	NUT, huglock (cranes 410-2892 and up)
31	HCF-4505	16	STUD
32	HCF-531	1	FELT
33	313453	1	CUP, bearing
34	319003	1	CONE AND ROLLERS, bearing
35	313036	2	CUP, bearing
36	312998	2	CONE AND ROLLERS, bearing
37	HCF-553	1	PIN, dowel, base plate
38	HCF-518	2	BOLT
39	HCF-522	3	SHIM (.005)
40	HCF-523	3	SHIM (.007)
41	HCF-521	4	SHIM (.020)
42	HCF-544	1	PLATE, retainer
43	HCF-562	1	WASHER
44	HCF-5689	1	SHAFT, idler gear (order Ref. 44A)
44A	HCF-11555	1	SHAFT, idler gear
45	POF-0439	2	RING, snap
46	HCF-1284	1	GEAR, idler (22 teeth)
47	HCF-4543	2	PLATE, lock, valve plug
47A	HCF-9725	2	PLATE, lock, valve plug (cranes 410-2302 & up)
48	HCF-375	2	WASHER, lock plate
49	HCF-2975	6	BOLT, self-locking
50	HCF-3598	2	BOLT, self-locking (valve plug lock plate)
51	HCF-2375	1	NUT, slotted
52	HCF-2251	1	SHAFT, drive
53	HCF-2281	1	WASHER, drive shaft
54	HCF-2279	1	COVER
55	HCF-2280	1	GASKET, cover
56	HCF-2252	1	PINION, drive (13 teeth)
57	HCF-2257	1	SPACER, drive shaft
58	194204	1	SEAL, oil
59	POF-9374	1	BREATHER (filler cap)
60	HCF-1712	1	TUBE, filler
61	563006	1	ELBOW, street
62	HC-353	1	HOUSING, pivot post drive
63	HCF-2235	1	GASKET
64	HCF-3134	1	GEAR, worm
65	HCF-4989	1	PINION AND SHAFT

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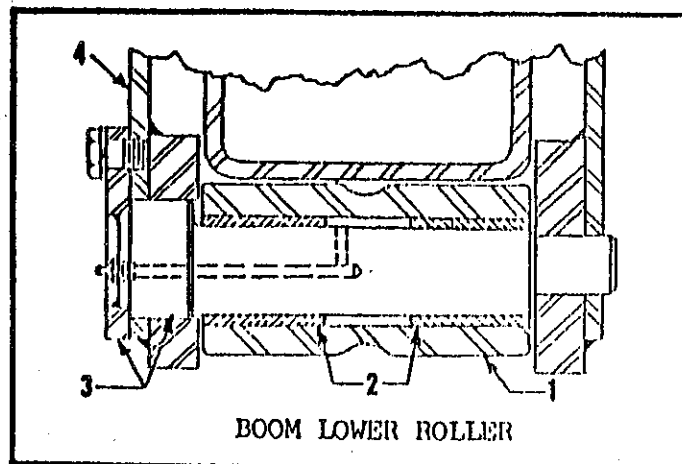
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
66	HCF-2322	1	BEATINER, grease
67	HCF-2333	1	VALVE, relief
68	313330	2	CUP, bearing
69	312754	2	CONE AND ROLLERS, bearing
70	HC-218	1	COVER
71	914003	8	NUT, huglock
72	HCF-2468	8	STUD
73	HCF-2265	2	GASKET
74	HCF-2266	3	SHIM (.005)
75	HCF-2267	3	SHIM (.007)
76	HCF-2268	1	SHIM (.020)
77			HYDRAULIC MOTOR (see separate page)
78	HCF-5133	2	GASKET
79	741323	5	BOLT
80	HCF-4593	1	KEY
81	HCF-4993	1	COUPLING
82	914008	3	NUT, huglock
83	HCF-2278	3	STUD
84	HC-221	1	CAP, bearing
85	310008	2	NUT, bearing lock
86	309008	1	WASHER, bearing lock
87	HCF-1264	6	STUD
88	914005	6	NUT, huglock
89	HCF-2263	3	GASKET (.008)
90	HCF-2493	2	GASKET (.003)
91	HCF-2264	2	GASKET
92	195037	3	SHIM (.005)
93	195038	3	SHIM (.007)
94	195039	1	SHIM (.020)
95	HC-220	1	CAGE, bearing
96	HCF-2256	1	SLINGER, oil
97	HCF-2258	1 Set	BEARING, ball (one matched set consists of 2 bearings)
98	311363	1	BEARING, ball
99	810003	1	PLUG, pipe, drain
100	810001	1	PLUG, pipe, oil level
101	HCF-2997	1	PLATE, instruction (housing lubrication)
102	810005	1	PLUG, pipe, gear inspection
103	111010	1	KEY, Woodruff



BOOM UPPER REAR AND LOWER FRONT SHOES

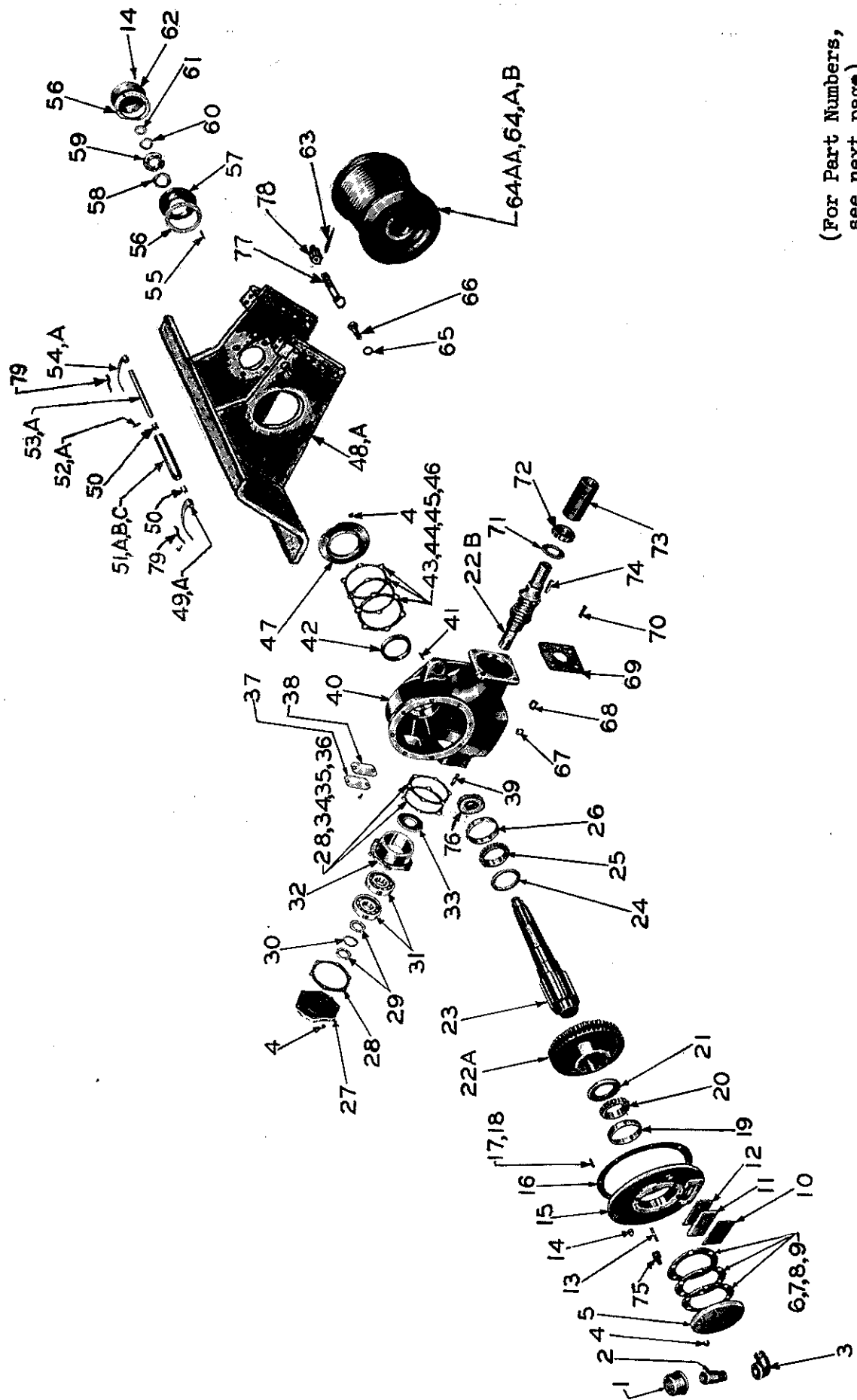
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HC-513	2	SHOE, rear
2	756057	4	SETSCREW, flat point
3	733003	4	NUT, jam
4			SHIPPER } (see separate
5			BOOM } page)
6	756132	4	SETSCREW, flat point
7	733007	4	NUT, jam
8	HC-788	2	SUPPORT, shoe (used with Ref. 11)
9	HC-399	2	SHOE, front } (1 pc. type - order
10	HC-687	2	SHOE, front } Ref. Nos. 8 and 11)
11	HC-394	2	SHOE, front



BOOM LOWER ROLLER

REF. NO.	PART NO.	QTY.	DESCRIPTION
1	HCF-4499	1	ROLLER
2	HCF-468	2	BUSHING
3	HCF-4502	1	SHAFT WITH KEEPER
4			SHIPPER (see separate page)

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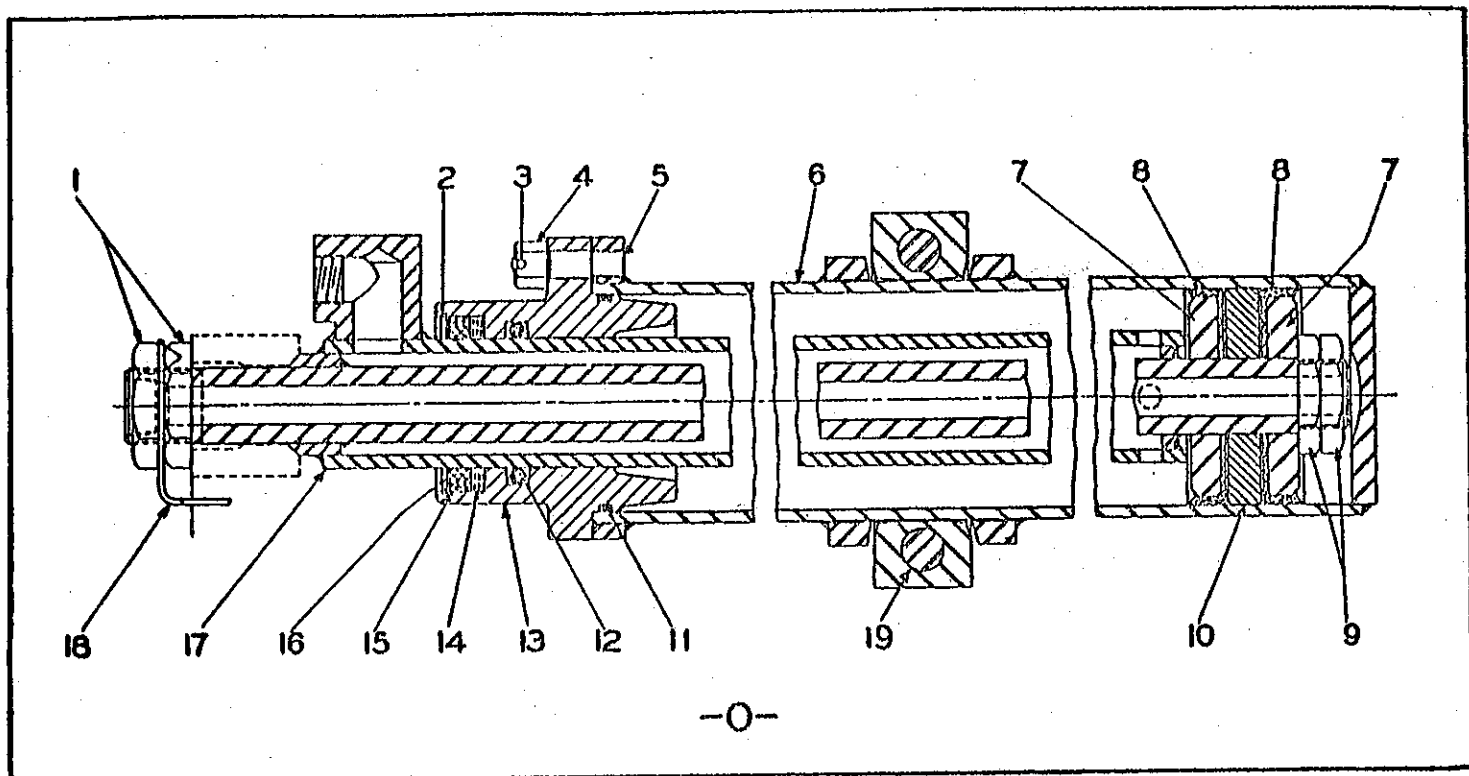


(For Part Numbers,
see next page)

CABLE HOIST DRUM AND DRIVE

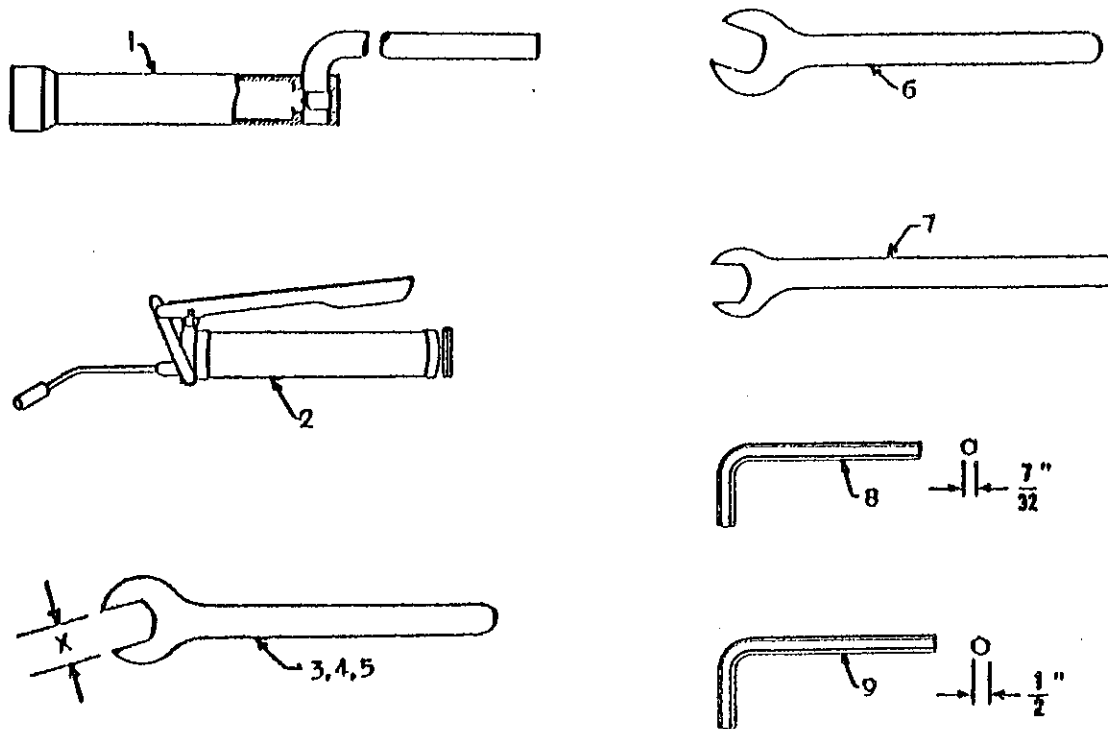
CABLE HOIST DRUM AND DRIVE
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	POF-9374	1	BREATHER (filler cap)
2	HCF-1712	1	TUNE, filler
3	563006	1	ELBOW, street
4	914005	18	NUT, huglock
5	HC-142	1	CAP, bearing
6	HCF-1265	2	GASKET
7	HCF-1266	3	SHIM (.005)
8	HCF-1267	3	SHIM (.007)
9	HCF-1268	1	SHIM (.020)
10	HCF-2996	1	PLATE, instruction (drum case lubrication)
11	HCF-1304	1	COVER, inspection hole
12	HCF-1283	1	GASKET
13	HCF-1350	6	STUD, bearing cap to cover
14	914003	12	NUT, huglock
15	HCF-149	1	COVER WITH STUDS (includes Ref. 13 & six Ref. 4)
16	HCF-1280	1	GASKET
17	HCF-1330	6	STUD, cover to case
18	HCF-1339	2	STUD, cover to case (at inspection cover)
19	313047	1	CUP, bearing
20	312085	1	CONE AND ROLLERS, bearing
21	HCF-1276	1	SPACER
22A	HCF-1496	1	GEAR, worm
22B	HCF-1496	1	PINION, worm
23	HCF-1270	1	SHAFT, drive
24	HCF-1322	1	SPACER
25	312999	1	CONE AND ROLLERS, bearing
26	313454	1	CUP, bearing
27	HC-143	1	CAP, bearing
28	HCF-1258	5	GASKET
29	310010	2	NUT, bearing lock
30	309010	1	WASHER, bearing lock
31	HCF-1281	1 Set	BEARING, ball (matched set consists of 2 bearings)
32	HC-145	1	CAGE, bearing
33	HCF-1259	1	GLINDER, oil
34	195043	3	SHIM (.005)
35	195044	3	SHIM (.007)
36	195045	1	SHIM (.020)
37	HCF-1305	1	COVER, inspection hole
38	HCF-1296	1	GASKET
39	HCF-1264	6	STUD
40	HC-148	1	CAGE, gear
41	HCF-1340	6	STUD
42	194290	1	SEAL, oil
43	HCF-1270	2	GASKET
44	195040	3	SHIM (.005)
45	195041	3	SHIM (.007)
46	195042	1	SHIM (.020)
47	HC-144	1	CAGE, bearing
48	HCF-7550	1	HOUSING, drum
48A	HCF-9615	1	HOUSING, drum (cranes 410-1728 and up)
49	HCF-7551	1	SPRING, right hand, cable guide
49A	HCF-9777	2	SPRING, right hand, cable guide (cranes 410-1728 & up)
50	ASF-7752	2	BUSHING
51	HCF-7548	1	ROLLER
51A	HCF-9453	1	ROLLER
51B	HCF-10490	1	ROLLER
51C	HCF-9461	2	SPACER - use with Ref. 51A
52	739053	1	PIN, groove
52A	739054	1	PIN (cranes 410-1728 and up)
53	HCF-7554	1	SHAFT, cable guide
53A	HCF-9613	1	SHAFT, cable guide
54	HCF-7552	1	SPRING, left hand, cable guide (up to cranes 410-1728)
54A	HCF-9777	2	SPRING, left hand, cable guide (cranes 410-1728 & up)
55	HCF-1341	4	STUD
56	HCF-1273	2	GASKET
57	HC-147	1	CAGE, bearing
58	HCF-1271	1	SPACER
59	311604	1	BEARING, ball
60	PGF-13171	1	WASHER
61	PGF-8708	1	NUT, slotted
62	HC-146	1	CAP, bearing
63	HC-75	1	WEDGE, cable
64	HC-588	1	DRUM, cable (for 1/2 dia. cable)
64AA	HC-651	1	DRUM, cable (for 1/2 dia. cable)
64A	HC-517	1	DRUM, cable (for 5/8 dia. cable)
64B	HC-652	1	DRUM, cable (for 5/8 dia. cable)
65	770021	4	WASHER, lock
66	742933	4	BOLT
67	810004	1	PLUG, pipe, drain
68	914007	4	NUT, huglock
69	HCF-517	1	GASKET
70	HCF-1332	4	STUD
71	HCF-1321	1	GLINDER, oil
72	311171	1	BEARING, ball
73	HCF-1261	1	COMPLING
74	HCF-1279	1	KEY
75	810001	1	PLUG, pipe, oil level
76	HCF-7220	1	SPACER
77	742944	4	BOLT
78	914010	4	NUT, huglock
79	HCF-7553	2	SPRING, truck-up (up to cranes 410-1728)



BOOM CROWD RAM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-729	1	BOOM CROWD RAM GROUP (includes Ref. Nos. 1 to 18 inclusive)
1	ASF-3343	2	NUT
2	HCF-447	1	RING, snap
3	166019	4	PIN, cotter
4	737007	4	NUT, slotted
5	HCF-1544	4	STUD
6	HCF-4328	1	CYLINDER
7	HCF-472	2	SPREADER
8	HCF-709	2	CUP
9	HCF-1257	2	NUT
10	HC-73	1	PISTON
11	PGF-9648-19	1	O-RING
12	PGF-9648-32	1	O-RING
13	HC-168	1	HEAD
14	HCF-450	1	FELT
15	HCF-449	1	WIPER
16	HCF-448	1	WASHER
17	HCF-4327	1	ROD
18	HCF-740	1	PLATE, lock
19	HCF-4534	2	PIN, ram support



TOOLS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-6510	1	Wheel stud nut wrench
2	ASF-6993	1	Grease gun
3	HCF-299	1	Hydraulic coupling wrench ("X" is 1-17/32")
4	HCF-1248	1	Hydraulic coupling wrench ("X" is 1-11/16")
5	HCF-1249	1	Hydraulic coupling wrench ("X" is 1-3/4")
6	PGF-10148	1	Hydraulic coupling wrench (1-1/4" opening) for 3/4" OD tube fitting
7	PGF-10150	1	Hydraulic coupling wrench (1-1/8" opening) for 5/8" OD tube fitting
8	848007	1	Hollow head cap screw wrench (hydraulic control valves)
9	848032	1	Hollow head cap screw wrench (front and rear (driving type) axle universal joint bearing ring)

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GMC -3-71 DIESEL ENGINE AND RELATED PARTS
(Not Illustrated)
ENGINE AND ATTACHING PARTS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-8859	1	ENGINE - 3-71 (used with Allison Torque Converter)-(see engine parts catalog)
1A	HCF-9925	1	ENGINE - 3-71 (less Allison Converter)-(see engine parts catalog)
1B	PGF-16325	1	TORQUE CONVERTER (see Allison parts book)
1C	PGF-17270	1	FILTER ASSEMBLY
2	HCF-5058	1	ADAPTER, fan bracket
3	PGF-12407	1	FAN
4	HCF-5462	1	BRACKET, emergency shut-off
5	HCF-7559	1	SUPPORT, engine, front (on engine)
6	HCF-6159	1	SUPPORT, engine, front, R.H. (on frame)
7	HCF-6160	1	SUPPORT, engine, front, L.H. (on frame)
8	HCF-6161	2	SUPPORT, engine, rear (on engine)
9	HCF-5053	1	SUPPORT, engine, rear, L.H. (on frame)
10	HCF-5054	1	SUPPORT, engine, rear, R.H. (on frame)
11	HCF-5438	2	CAPSCREW for front support
12	HCF-6106	1	BRACKET for pump
13	HCF-7955	1	BRACKET, oil filter
14	HCF-8010	1	BRACE, oil filter bracket
15	HCF-6230	1 Set	BELT, fan (one matched set consists of 2 belts)
16	HCF-6174	1	ADAPTER, pump drive
17	HCF-241	6	CAPSCREW, fan and pump pulley
18	PGF-9738	3	LOCK WIRE for pulley capscrow
19	755097	1	SET SCREW, cup point, pump belt adjustment

RADIATOR, CONNECTIONS AND ATTACHING PARTS

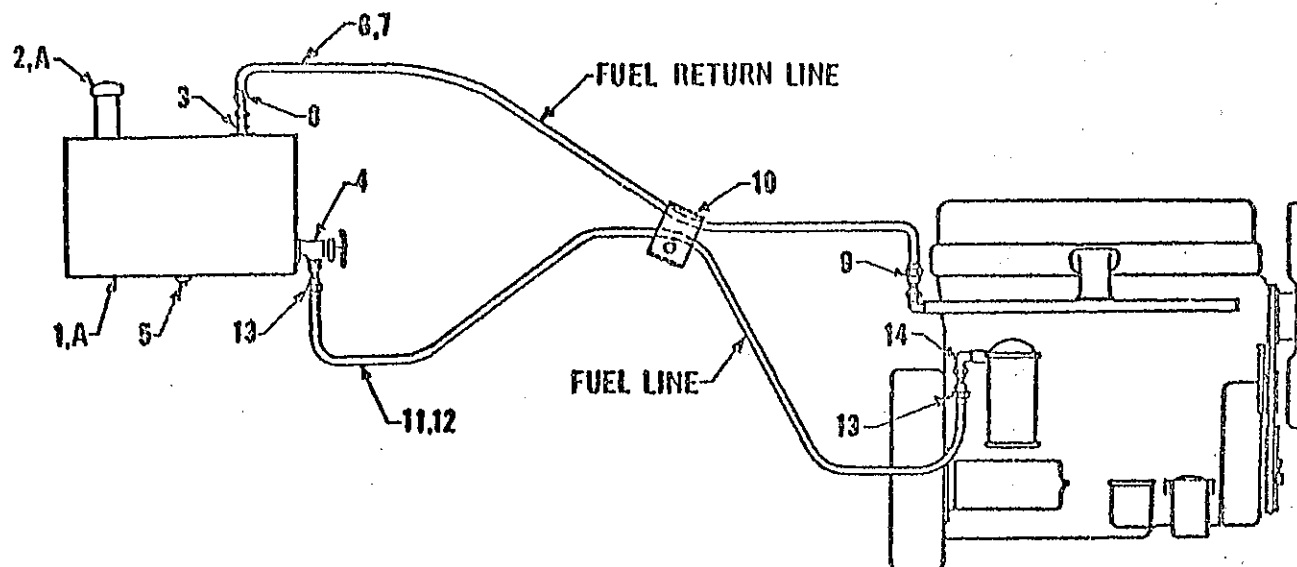
20	HCF-6686	1	RADIATOR (562075 core and 562076 shell)
21	HCF-7573	1	SHROUD
22	WR-82	1	INLET
23	WR-81	1	OUTLET
24	PGF-9339	1	DRAIN COCK
25	BRF-2137	2	GASKET
26	PGF-11348	1	HOSE, lower (1-3/4" ID x 3-1/2")
27	HCF-6268	1	HOSE, upper (1-3/4" ID x 11")
28	HCF-6224	1	HOSE, lower (2" ID x 3")
29	HCF-4452-3	4	CLAMP, hose
30	HCF-6166	1	TUBE, lower (radiator to engine)
31	HCF-7906	2	SPACER, radiator mounting
32	815003	2	PLUG, pipe, countersunk head (oil cooler)

AIR CLEANER AND ATTACHING PARTS

33	PGF-15576	1	AIR CLEANER (includes #035084 cup, #035083 tray, 2 - #035033 side rods, and 2 - #035042 rubber gaskets)
33A	PGF-17274	1	AIR CLEANER (includes #035115 body assembly, #035085 housed element assembly, #035086 inner oil cup, #035087 oil cup, 2 - #035089 side rod, and 2 - #035088 side rod bands)
34	HCF-8250	1	SUPPORT
35	PGF-12479	1	CAP
36	PGF-12477	2	BAND
37	HCF-6231	1	HOSE (4" ID x 5")
38	HCF-7755	1	TUBE
39	HCF-4452-6	2	CLAMP for hose
40	PGF-14704	1	GASKET, tube

MUFFLER AND ATTACHING PARTS

41	PGF-15434	1	MUFFLER
42	HCF-6218	1	EXHAUST TUBE
43	PGF-12640	1	CLAMP, lower (for muffler)
44	HCF-5384	1	CLAMP, upper (for muffler)
45	HCF-6232	1	SUPPORT for muffler
46	HCF-6247	2	CLAMP for exhaust tube
47	HCF-7105	1	BRACKET for muffler



FUEL SYSTEM (FOR GMC-3-71 ENGINE)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2835	1	TANK, fuel (includes Ref. No. 2)
1A	HCF-10864	1	TANK, fuel (includes Ref. No. 2)-(cranes 410-2358 and up)
2	PGF-11705	1	CAP, filler neck (regular)
2A	HCF-5750	1	CAP, filler neck (flame proof)
3	840006	1	CONNECTOR, half-union
4	PGF-9338	1	VALVE, needle
5	816001	1	PLUG, pipe
6	HCF-5318	1	HOSE ASSEMBLY (includes Ref. 7, 8 and 9)
7	HCF-5318-1	1	HOSE
8	PGF-13619-3	1	CONNECTOR
9	PGF-13617-3	1	CONNECTOR
10	HCF-3080	1	CLIP
11	HCF-5911	1	HOSE ASSEMBLY (includes Ref. 12 and 13)
12	HCF-5911-1	1	HOSE
13	PGF-13619-6	2	CONNECTOR
14	835008	1	ELBOW

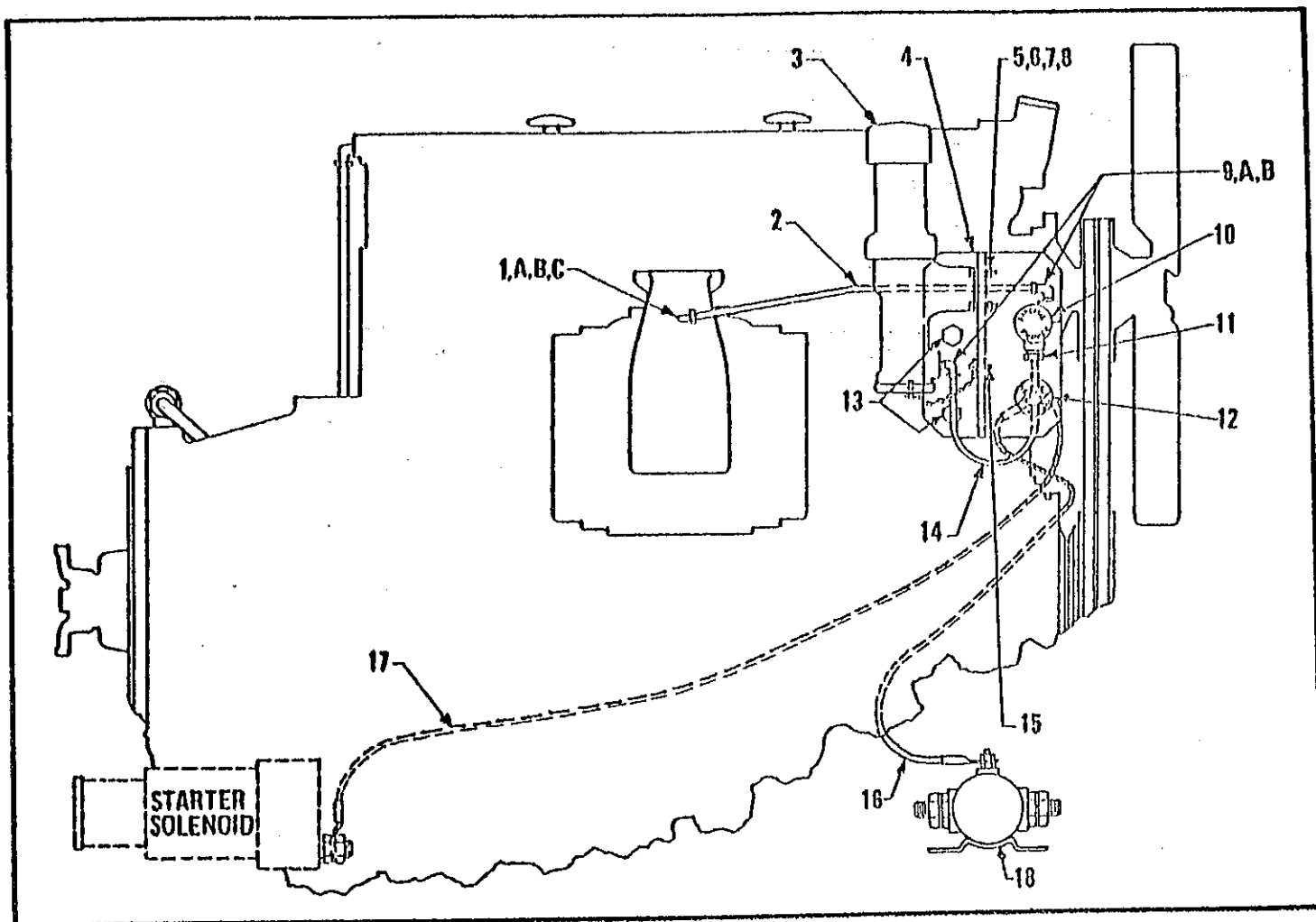
ELECTRICAL ACCESSORIES FOR GMC-3-71 DIESEL ENGINE
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-6517	1	WIRE, generator to ground (for Ref. No. 2)
2	HCF-5547		GENERATOR AND DRIVE PARTS (standard - 30 Amperes)
2A	PGF-13817	1	PULLEY, generator
2B	PGF-17433	1	FAN, generator
3	HCF-3179	2	WIRE, generator to voltage regulator
4	PGF-15532	1	% REGULATOR, voltage (for Ref. No. 2)
4A	HCF-9204	1	@ REGULATOR, voltage (for Ref. No. 2)
5	HCF-5518	1	* BRACKET, voltage regulator
6			MOTOR, starting (see engine repair catalog)
7	PGF-13894	1	STRAP, ground, starting motor to engine
8	HCF-5696	1	SENDER, oil pressure
9	HCF-5693	1	SENDER, temperature
10	HCF-9296	1	% CABLE, starter solenoid to battery
10A	HCF-9298	1	@ CABLE, starter solenoid to battery
11	PGF-10120	3	GROMMET
12	HCF-3311	1	% CABLE, battery to ground
12A	HCF-5811	1	@ CABLE, battery to ground
13	PGF-10118	1	CABLE, jumper, battery
14	WRF-655	2	BATTERY, 6 volt
14A	HCF-2078	2	* STUD, for battery
14B	HCF-6440	1	* BASE, for battery
14C	HCF-2889	1	* SPACER, for battery
14D	HCF-7843	1	* CLAMP, for battery
15	HCF-6217	1	BREAKER, circuit
16	HCF-5415	1	HARNESS, wiring
16A	HCF-9392	1	HARNESS, wiring
17	HCF-2499	1	HORN (1st type - order Ref. Nos. 17A, B and C)
17A	HCF-9250	1	HORN (2nd type)
17B	HCF-9251	1	BRACKET
17C	HCF-9252	1	NUT, mounting } (for Ref. No. 17A)
17D	PGF-18406	1	HORN (3rd type)
18	HCF-2717	1	BRACKET (for Ref. No. 17)
19	HCF-7644	1	WIRE, horn to steering column
19A	HCF-7562	1	WIRE, horn to steering column
20	PGF-10421	1	CONNECTOR, wire
21			BUTTON, horn (see steering gear page)
23	HCF-9630	1	WIRE, ammeter to ignition switch
24	HCF-4389	1	WIRE, temperature gauge to oil pressure gauge
25			SWITCH, starter
26			AMMETER
28			GAUGE, oil pressure
29			GAUGE, temperature
30	HCF-4389	1	WIRE, temperature gauge to voltage regulator
31	HCF-6360	1	WIRE, ignition switch to voltage regulator
31A	HCF-9631	1	WIRE, ignition switch to voltage regulator
32	HCF-5692	1	REGULATOR, voltage (for gauges)
33	HCF-6359	1	WIRE, ammeter to circuit breaker
34	PGF-13573	1	GENERATOR (special - 50 Amperes)
35	HCF-7376	1	* BRACKET, mounting, for generator
36	HCF-7377	1	* SPACER, generator mounting
37	HCF-7378	1	* STRAP, adjusting, for generator
38	HCF-10027	1	PULLEY
39	PGF-11536	1	* FAN, pulley
40	PGF-13820	1	BELT
41	PGF-16282	1	WIRE, generator to ground
42	PGF-13568	1	% REGULATOR, voltage
42A	HCF-9203	1	@ REGULATOR, voltage
43	WRF-939	1	SWITCH, magnetic
44	HCF-9903	1	* BRACKET, magnetic switch
45	HCF-9904	1	WIRE, switch to starter solenoid (18" long - end terminals eye type)-(for cranes with magnetic switch only)
46	HCF-9905	1	WIRE, switch to starter solenoid (18" long - end terminals one eye type and one slotted)-(for cranes with magnetic switch only)
47	HCF-11470	1	WIRE, horn to relay
48	HCF-11401	1	RELAY, horn
49	PGF-18200	1	* ALTERNATOR ASSEMBLY - 12V-60 Amp
50	PGF-18181	1	* REGULATOR, voltage
51	PGF-18201	1	* RELAY
52	HCF-11085	1	* PULLEY, alternator
53	HCF-11087	1	* STRAP, alternator adjust
54	HCF-11086	1	* BRACKET, alternator mount

Note: * Parts not illustrated.

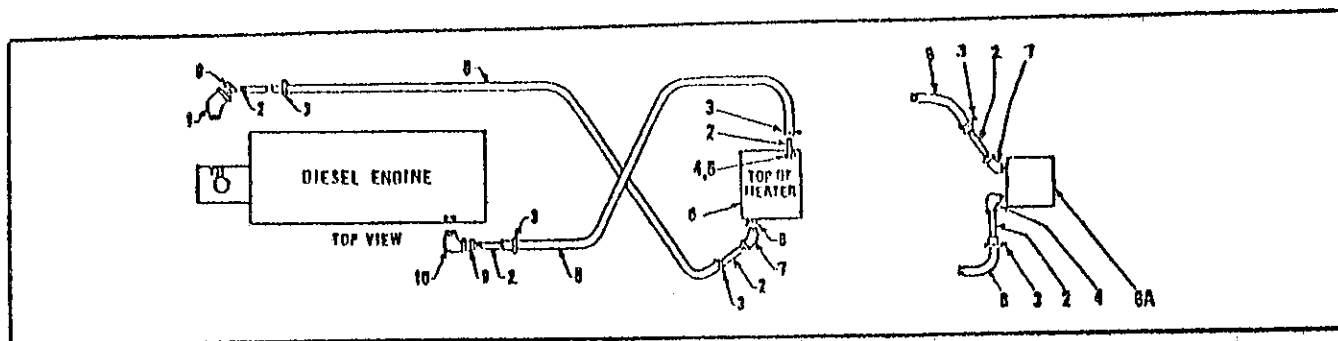
% For use with "POSITIVE" grounded battery only.

@ For use with "NEGATIVE" grounded battery only.



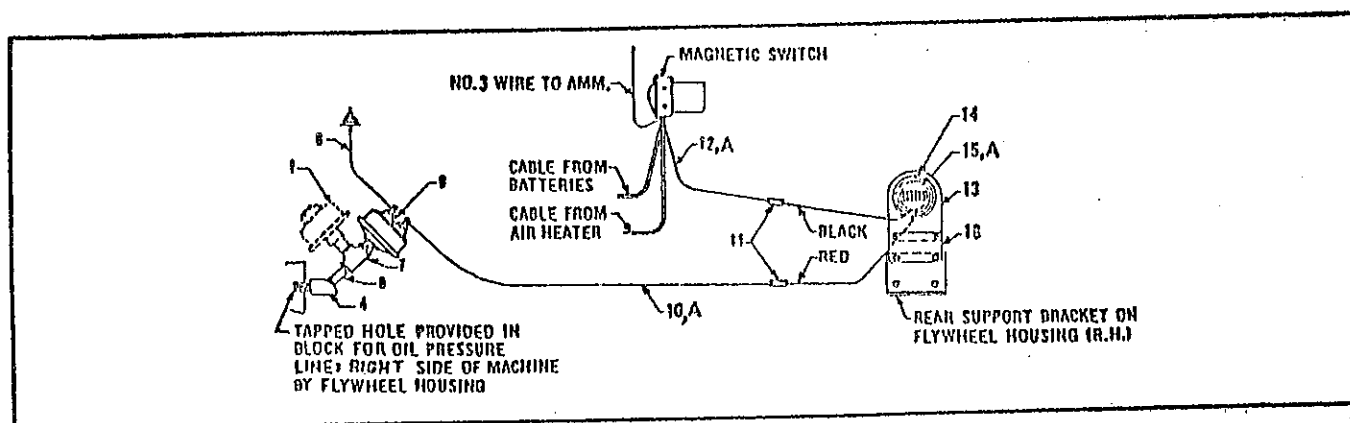
ETHER STARTING SYSTEM (For GMC-3-71 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-11414	1	ELBOW NOZZLE ASSEMBLY (incl. 1A, 1B and 1C)
1A	PGF-11414-1	1	BODY (order Ref. No. 1)
1B	PGF-11412-2	1	JET (order Ref. No. 1)
1C	PGF-11412-3	1	NUT WITH SLEEVE
2	HCF-6047	1	TUBE, primer to blower
3	PGF-12309	1	TOOL, puncturing
4	HCF-6225	1	SUPPORT
5	747084	4	SCREW
6	855011	4	WASHER, plain
7	778007	4	WASHER, lock
8	861022	4	NUT
9	PGF-11523	2	ELBOW ASSEMBLY (includes Ref. Nos. 9A and 9B)
9A	PGF-11523-1	1	BODY (order Ref. No. 9)
9B	PGF-11523-2	1	NUT WITH SLEEVE
10	PGF-11400	1	PRIMER
11	PGF-11413	1	CONNECTOR
12	ASF-7071	1	SWITCH, hand
13	741317	2	BOLT
14	HCF-6048	1	TUBE, puncturer to primer
15	918030	1	SCREW, self-tapping
16	HCF-8606	1	WIRE, hand switch to magnetic switch
17	HCF-6054	1	WIRE, hand switch to solenoid
18			SWITCH, magnetic (see wiring page)
19	HCF-2527	1	CLIP, wire (not shown)



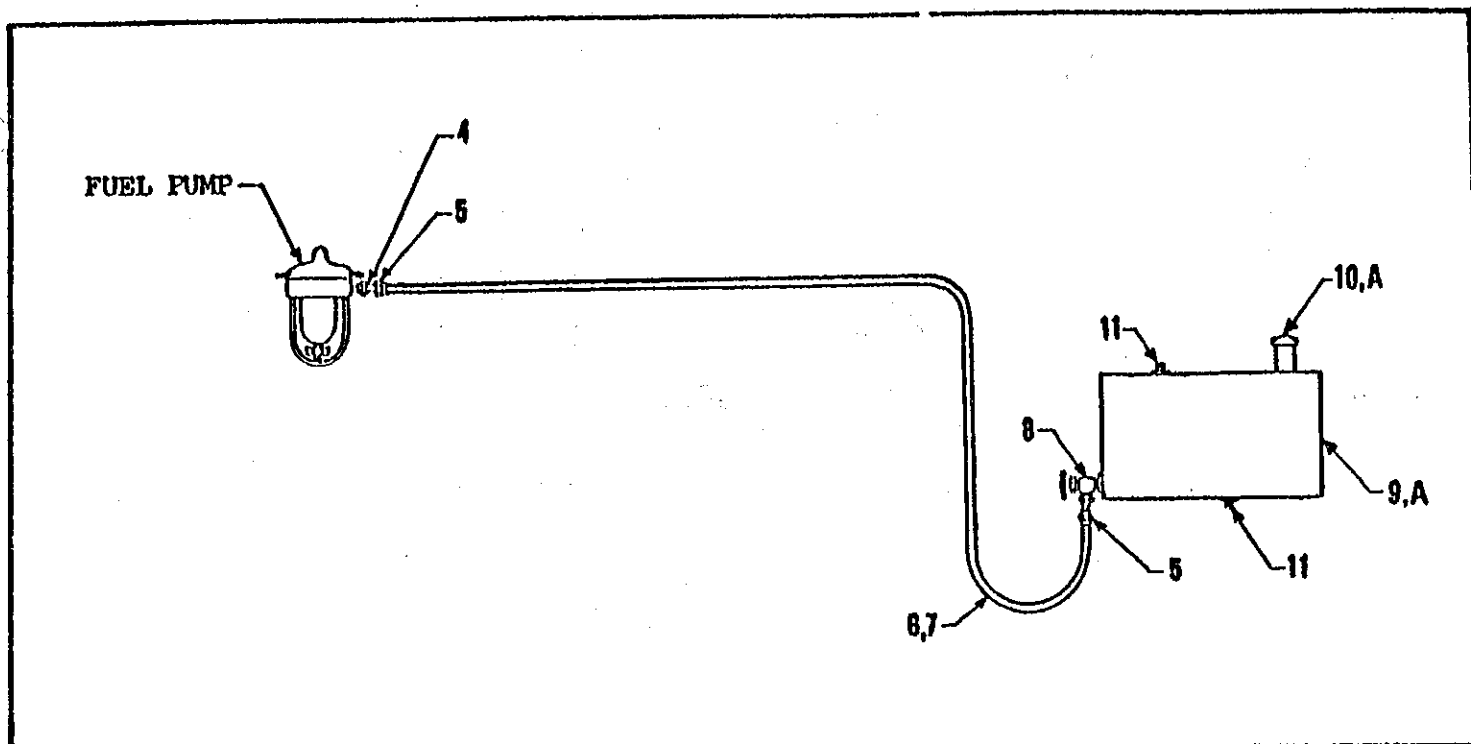
HEATER PIPING DIAGRAM (For GMC-3-71 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	564052	1	ELBOW, 45° street
2	556101	4	NIPPLE
3	034010	4	CLAMP, hose
4	563852	1	ELBOW, 90° street
5	884008	2	BUSHING, reducer
6	PGF-12649	1	HEATER, 12 volt (7-7/8" x 10-1/4", without mounting brackets)
6A	HCF-7746	1	HEATER, 12 volt (7-1/2" x 7-1/2", with mounting bracket)
7	564051	1	ELBOW, 45° street
8	HCF-3897	2	HOSE
9	884004	2	BUSHING, reducer
10	563853	1	ELBOW, 90° street



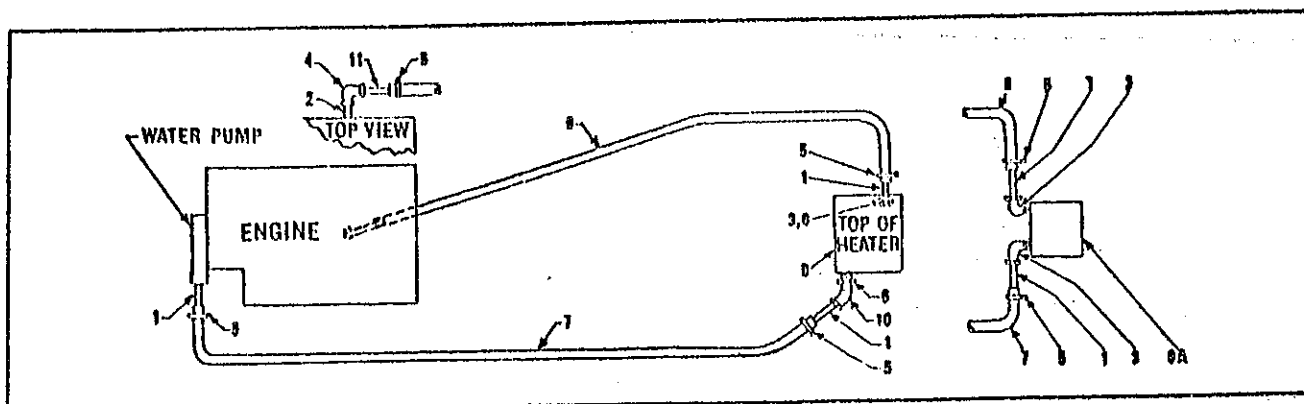
HOURLMETER WIRING DIAGRAM (For GMC-3-71 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-5696	1	SENDER, oil pressure
4	564001	1	ELBOW
6	532001	1	NIPPLE
7	537001	1	TEE
8	PGF-6517	1	WIRE, ground
9	PGF-11652	1	SWITCH, pressure
10	HCF-3893	1	WIRE, switch to connector (for Ref. 15)
10A	HCF-8454	1	WIRE, switch to hourmeter (for Ref. 15A)
11	PGF-10421	2	CONNECTOR, wire (for Ref. 15)
12	HCF-3894	1	WIRE, switch to connector (for Ref. 15)
12A	HCF-8450	1	WIRE, switch to hourmeter (for Ref. 15A)
13	HCF-3888	1	BRACKET, mounting
14	PGF-14641	1	DAMPENER, vibration
15	HCF-4637	1	HOURLMETER, with connecting wires (order Ref. Nos. 10A, 12A and 15A)
15A	HCF-8456	1	HOURLMETER, with wire terminals
16	HCF-3887	1	PLATE, support



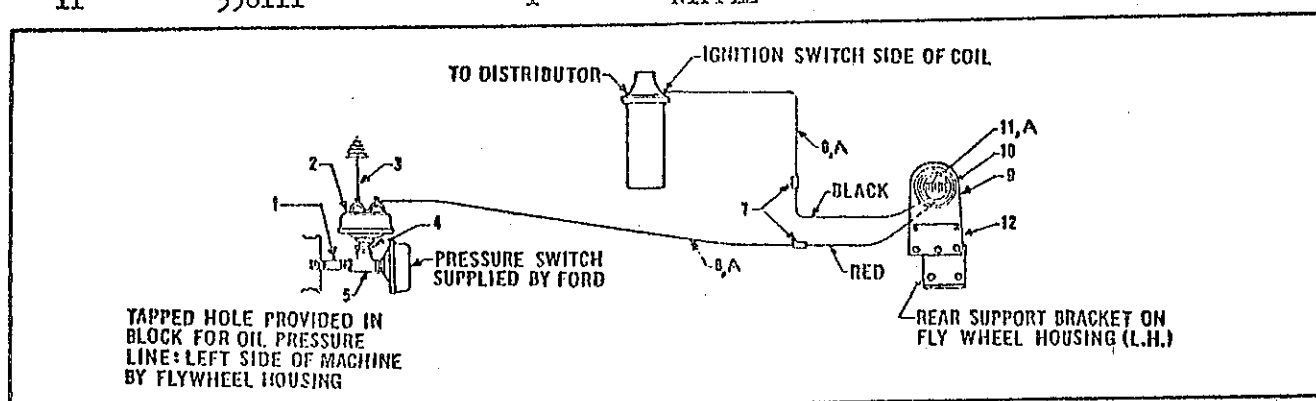
FUEL SYSTEM
(For Ford 332 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
4	840007	1	CONNECTOR
5	PGF-13619-6	2	FITTING, hose
6	HCF-3794	1	HOSE ASSEMBLY (includes Ref. Nos. 5 and 7)
7	HCF-3794-1	1	HOSE
8	PGF-9338	1	VALVE, needle
9	HCF-2835	1	TANK, fuel (includes Ref. No. 10)
9A	HCF-10250	1	TANK, fuel (includes Ref. No. 10)
10	PGF-11705	1	CAP, filler neck, regular
10A	HCF-5750	1	CAP, filler neck, flame proof
11	816001	2	PLUG, pipe



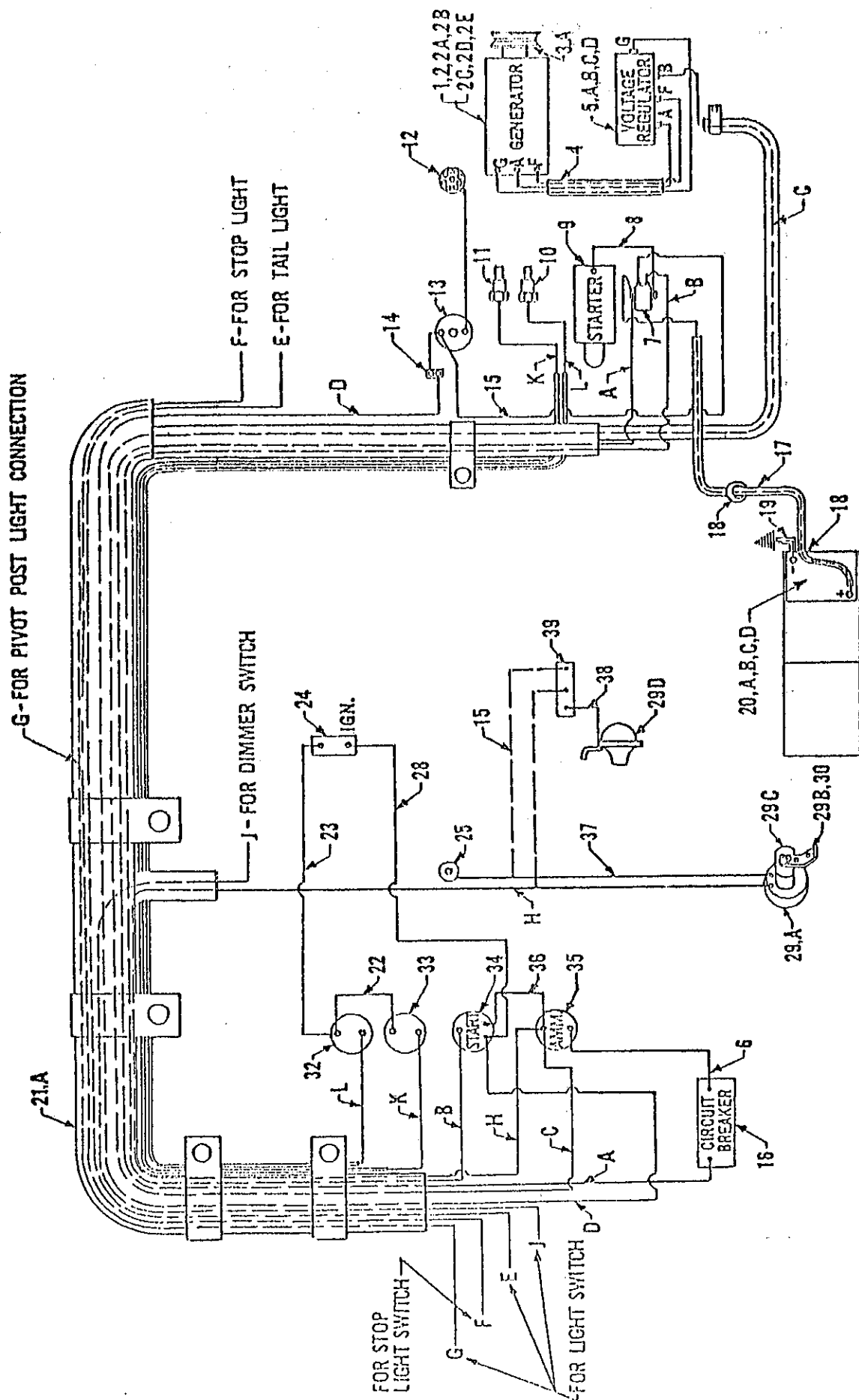
HEATER PIPING DIAGRAM
(For Ford 332 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	556101	3	NIPPLE
2	555101	1	NIPPLE
3	563852	1 or 2	ELBOW, 90° street
4	522051	1	ELBOW, 90°
5	034010	4	CLAMP, hose
6	884008	2	BUSHING, reducer
7	HCF-3898	1	HOSE
8	HCF-5143	1	HOSE
9	PGF-12649	1	HEATER, 12 volt (7-7/8" x 10-1/4", without mounting brackets)
9A	HCF-7746	1	HEATER, 12 volt (7-1/2" x 7-1/2", with mounting bracket)
10	564051	1	ELBOW, 45° street
11	556111	1	NIPPLE



HOURMETER WIRING DIAGRAM
(For Ford 332 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	532051	1	NIPPLE
2	PGF-11652	1	SWITCH, pressure
3	PGF-6517	1	WIRE, pressure switch to ground
4	534001	1	BUSHING, reducing
5	537002	1	TEE
6	HCF-3893	1	WIRE, switch to connector (for Ref. 11)
6A	HCF-8454	1	WIRE, switch to connector (for Ref. 11A)
7	PGF-10421	2	CONNECTOR
8	HCF-3892	1	WIRE, coil to connector (for Ref. 11)
8A	HCF-8455	1	WIRE, coil to hourmeter (for Ref. 11A)
9	HCF-3888	1	BRACKET, mounting
10	PGF-14641	1	DAMPENER, vibration
11	HCF-4637	1	HOURMETER, 12 volt (order Ref. 6A, 8A, and 11A)
11A	HCF-8456	1	HOURMETER, with wire terminals
12	HCF-3887	1	PLATE, support



(For Part Numbers, see next page)

ELECTRICAL ACCESSORIES AND WIRING DIAGRAM
(For Ford 332 Engines)

ELECTRICAL ACCESSORIES FOR FORD 332 GASOLINE ENGINES
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			GENERATOR AND DRIVE DETAILS (standard - 30 Amperes)-(see engine repair catalog)
2	HCF-5583	1	GENERATOR (special - 60 Amperes)
2A	HCF-7134	1	* BRACKET, rear (for Ref. No. 2)
2B	HCF-7133	1	* BRACKET, front (for Ref. No. 2)
3			PULLEY (for Ref. No. 1)-(see engine catalog)
3A	HCF-7115	1	PULLEY (for Ref. No. 2)
4	HCF-5767	1	HARNESS, wiring
5	HCF-5557	1	REGULATOR, voltage (for Ref. No. 1)
5A	HCF-5582	1	REGULATOR, voltage (for Ref. No. 2)
5B	HCF-5302	1	* BRACKET (for Ref. No. 5)
5C	HCF-5703	1	* BRACKET (for Ref. No. 5A)
5D	PGF-10042	3	* GROMMET (for Ref. Nos. 5B and 5C)
6	HCF-6359	1	WIRE, ammeter to circuit breaker
7	HCF-7292	1	RELAY SWITCH, starter
8	HCF-4388	1	CABLE, solenoid or relay to starting motor
9			MOTOR, starting (see engine repair catalog)
10	HCF-5693	1	SENDER, temperature
11	HCF-5813	1	SENDER, oil pressure
12			DISTRIBUTOR
13			IGNITION COIL
14			RESISTOR
15	HCF-7562	2	WIRE, ignition coil to relay switch and horn
16	HCF-6217	1	BREAKER, circuit
17	HCF-9067	1	CABLE, battery to solenoid or relay
18	PGF-10120	3	GROMMET
19	HCF-5811	1	CABLE, battery to ground
20	HCF-5226	1	BATTERY, 12 volt
20A	HCF-2078	2	* STUD, for battery
20B	HCF-6393	1	* BASE, for battery
20C	HCF-6007-1	1	* CLAMP, for battery
20D	HCF-6395	1	* STRAP, tie, for battery
21	HCF-7311	1	HARNESS, wiring
21A	HCF-9391	1	HARNESS, wiring
22	HCF-4389	1	WIRE, oil pressure gauge to temperature gauge
23	HCF-4389	1	WIRE, temperature gauge to voltage regulator
24	HCF-5692	1	REGULATOR, voltage (for gauges)
25			BUTTON, horn (see steering gear page)
28	HCF-9631	1	WIRE, ignition switch to voltage regulator
29	HCF-2499	1	HORN (1st type - order Ref. Nos. 29A, B and C)
29A	HCF-9250	1	HORN (2nd type)
29B	HCF-9251	1	BRACKET
29C	HCF-9252	1	NUT, mounting
29D	PGF-18406	1	HORN (3rd type)
30	HCF-2717	1	BRACKET (for Ref. No. 29)
32			GAUGE, temperature
33			GAUGE, oil pressure
34			SWITCH, starter
35			AMMETER
36	HCF-9630	1	WIRE
37	HCF-7644	1	WIRE, horn to steering column
38	HCF-11470	1	WIRE, horn to relay
39	HCF-11401	1	RELAY
40	PGF-18200	1	* ALTERNATOR - 12V- 60 Amp.
41	PGF-18181	1	* REGULATOR, voltage
42	PGF-18201	1	* RELAY
43	HCF-11133	1	* PULLEY, alternator
44	HCF-11115	1	* STRAP, alternator
45	HCF-11134	1	* SPACER
46	HCF-11135	1	* SPACER
47	HCF-11116	1	* BELT
48	HCF-11104	1	* CONNECTOR, body
49	HCF-11105	1	* CONNECTOR, body

Note: * Parts not illustrated.

FORD MODEL 332 GASOLINE ENGINE AND RELATED PARTS
(Not Illustrated)
ENGINE AND ATTACHING PARTS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-6385	1	ENGINE - Model 332 (see engine parts catalog)
1A	HCF-10073	1	ENGINE - Model 332 (2nd type)-(increased RPM)
2	HC-290	1	PULLEY - fan and hydraulic pump drive
3	HCF-2388	6	STUD, fan and pump pulley
4	POF-9738	3	LOCK WIRE, for pulley stud
5	POF-15157	1	BELT, fan
6	HCF-5134	1	SUPPORT, engine, front (on engine)
7	HCF-5213	1	SUPPORT, engine, front, L.H. (on frame)-(lower adjusting hole is 2" from frame mounting face)
7A	HCF-9706	1	SUPPORT, engine, front, L.H. (on frame)-(lower adjusting hole is 3-1/2" from frame mounting face)
8	HCF-5212	1	SUPPORT, engine, front, R.H. (on frame)
9	HCF-4745	2	SUPPORT, engine, rear (on engine)
10	HCF-4784	2	SUPPORT, engine, rear (on frame)
11	WRF-2452-5	2	MOUNT, rubber
12	HCF-5149	2	WASHER for insulator
13	HCF-5438	2	CAPSCREW for front support
14	755097	1	SETSCREW, cup point, pump belt adjustment

RADIATOR, CONNECTIONS AND ATTACHING PARTS

15	HCF-6686	1	RADIATOR (562075 core and 562076 shell)
16	HCF-6950	1	SHROUD
17	WR-82	1	INLET
18	HC-328	1	OUTLET - order next 2 items:
18A	HC-500	1	OUTLET
18B	HCF-9953	1	HOSE (lower)-(2" ID x 4-1/8")
19	PGF-9339	1	DRAIN COCK
20	BRF-2137	2	GASKET
21	HCF-4731	1	HOSE (upper)-(1-3/4" ID x 22-1/2")
22	HCF-4452-3	5	CLAMP, hose
23	HCF-4452-4	1	CLAMP, hose

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
24	HCF-5208	1	TUBE, lower (radiator to engine)
25	HCF-4736	1	HOSE (lower)-(elbow form)
26	PGF-10065	1	HOSE (lower)-(2" ID x 6-1/4")
27	HCF-7906	2	SPACER, radiator mounting

AIR CLEANER AND ATTACHING PARTS

28	HCF-4412	1	AIR CLEANER (includes #035026 clamp and #035011 cup)
28A	HCF-6499	1	AIR CLEANER (includes #035026 clamp and #035011 cup)
29	HCF-5679	1	SUPPORT
29A	HCF-10986	1	SUPPORT
30	HCF-2879	1 or 2	BAND
31	HCF-6280	1	HOSE (2-1/4" and 3" ID x 9-1/2"), order next 4 items:
32	WRF-1259	1	HOSE (3" ID x 4")-(used with Ref. 1)
33	WRF-2098-2	1	ADAPTER for hose (used with Ref. 1)
34	HCF-4452-4	2	CLAMP for 2-1/4" ID hose (used with Ref. 1)
35	BRF-1869	1	HOSE (2-1/4" ID x 4")
35A	HCF-7823	1	HOSE (3" ID x 9-1/2")-(used with Ref. 1A)
36	HCF-4452-5	2	CLAMP for 3" ID hose
37	HCF-11478	1	STRAP

MUFFLER AND ATTACHING PARTS

38	WRF-1194	2	MUFFLER
39	HCF-5147	2	SUPPORT for muffler
40	WRF-1210	2	TAIL PIPE
41	WRF-1209	4	CLAMP for muffler
42	HCF-5274	1	EXHAUST TUBE, R.H.
43	HCF-6579	1	VALVE, internal exhaust (used with HCF-5275)
44	HCF-5275	1	EXHAUST TUBE, L.H. (1st type-has 4 hole flange), order next 3 items:
45	HCF-7439	1	EXHAUST TUBE, L.H. (2nd type-has 2 hole flange)
46	HCF-7432	1	HEAT REGULATOR) (used
			) with
47	HCF-7440	1	ADAPTER, exhaust tube) HCF-7439)

INCo. - UB-264 GASOLINE ENGINE AND RELATED PARTS
(Not Illustrated)
ENGINE AND ATTACHING PARTS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-9781	1	ENGINE - UB-264 (3rd type - uses converter drive plates, Ref. No. 29, shown on Page H-1.10)-(see engine parts catalog)-(use with Ref.1A in place of HCF-8138 engine)
1A	HCF-9640	1	SPACER (use with Ref. No. 1)
2	HCF-10070	1	ENGINE - UB-264 (4th type - uses converter drive plate, Ref. No 29, shown on page H-1.10)-(see engine parts catalog)-(increased RPM)
3	HCF-7089	1	FAN, 20" dia. (for 18-1/2" dia. fan see engine parts catalog)
4	HCF-7443	1	BELT, fan (used with HCF-7089)-(for 18-1/2" dia. fan see engine parts catalog)
5	HCF-2388	6	STUD, fan and pump pulley
6	POF-9738	3	LOCK WIRE, for pulley stud
7	HCF-6634	1	SUPPORT, engine, front (on engine)
8	HCF-6633	1	SUPPORT, engine front, R.H. (on frame)-(lower adjusting hole is 2" from frame mounting face)-(order HCF-8690 shown on pump page and HCF-8690)
9	HCF-8691	1	SUPPORT, engine, front, R.H. (on frame)-(lower adjusting hole is 3-1/2" from frame mounting face)
10	HCF-6632	1	SUPPORT, engine, front, L.H. (on frame)
11	HCF-6627	1	SUPPORT, engine, rear, R.H. (on engine)
12	HCF-6628	1	SUPPORT, engine, rear, L.H. (on engine)
13	HCF-6629	2	SUPPORT, engine, rear (on frame)
14	WRF-2452-5	2	INSULATOR for front support
15	HCF-5149	2	WASHER for insulator
16	HCF-5438	2	BOLT for front support
17	737004	2	NUT, allotted, front support bolt
18	HCF-6623	2	PAD, top, for engine front mounting
19	HCF-6624	2	PAD, bottom, for engine front mounting
20	HCF-6921	2	SPACER, for front mounting pads
21	755097	1	SETSCREW, cup point, pump belt adjustment

RADIATOR, CONNECTIONS AND ATTACHING PARTS

1	HCF-6686	1	RADIATOR (incl. #562075 core and #562076 shell ass'y.)
2	HCF-7123	2	SHROUD (half)-(for 18-1/2" dia. fan)
3	HCF-6967	1	* SHROUD (half), R.H.
4	HCF-7096	1	* SHROUD (half), L.H.
5	POF-13773	2	* SPACER, pipe (at top of shroud)
6	HCF-7182	1	* STRAP, top, for shroud
7	HCF-7183	1	* STRAP, bottom, for shroud
8	HC-391	1	INLET
9	HC-390	1	OUTLET
10	POF-9339	1	DRAIN COCK
11	BRF-2137	2	GASKET
12	HCF-4452-3	2	CLAMP, hose
13	HCF-2815	1	HOSE, upper (2" ID x 14")
14	WRF-760	1	HOSE, lower (2" ID x 12")
15	HCF-7906	2	SPACER, radiator mounting

Note: * For 20" diameter fan.

AIR CLEANER AND ATTACHING PARTS

1	WRF-600	1	AIR CLEANER (incl. #035041 clamp and #035040 cup)
1A	HCF-4412	1	AIR CLEANER (incl. #035026 clamp and #035011 cup)
2	HCF-6616	1	BRACKET
2A	HCF-10966	1	BRACKET
3	WRF-599	1	BAND
3A	HCF-2879	1	BAND
4	T-594	1	ELBOW
5	HCF-4452-5	2	CLAMP for HCF-6617 hose
6	HCF-6617	1	HOSE (2" and 2-1/4" ID x 7"), order next 5 items:
7	BRF-1869	1	HOSE (2-1/4" ID x 4")
7A	HCF-10988	1	HOSE (2-1/4" ID x 6-1/2")
8	WRF-2098-1	1	ADAPTER for hose } (not used
9	HCF-6224	1	HOSE (2" ID x 3") } with Ref.1A)
10	HCF-4452-4	2	CLAMP for BRF-1869 hose
11	HCF-4452-3	2	CLAMP for HCF-6224 hose

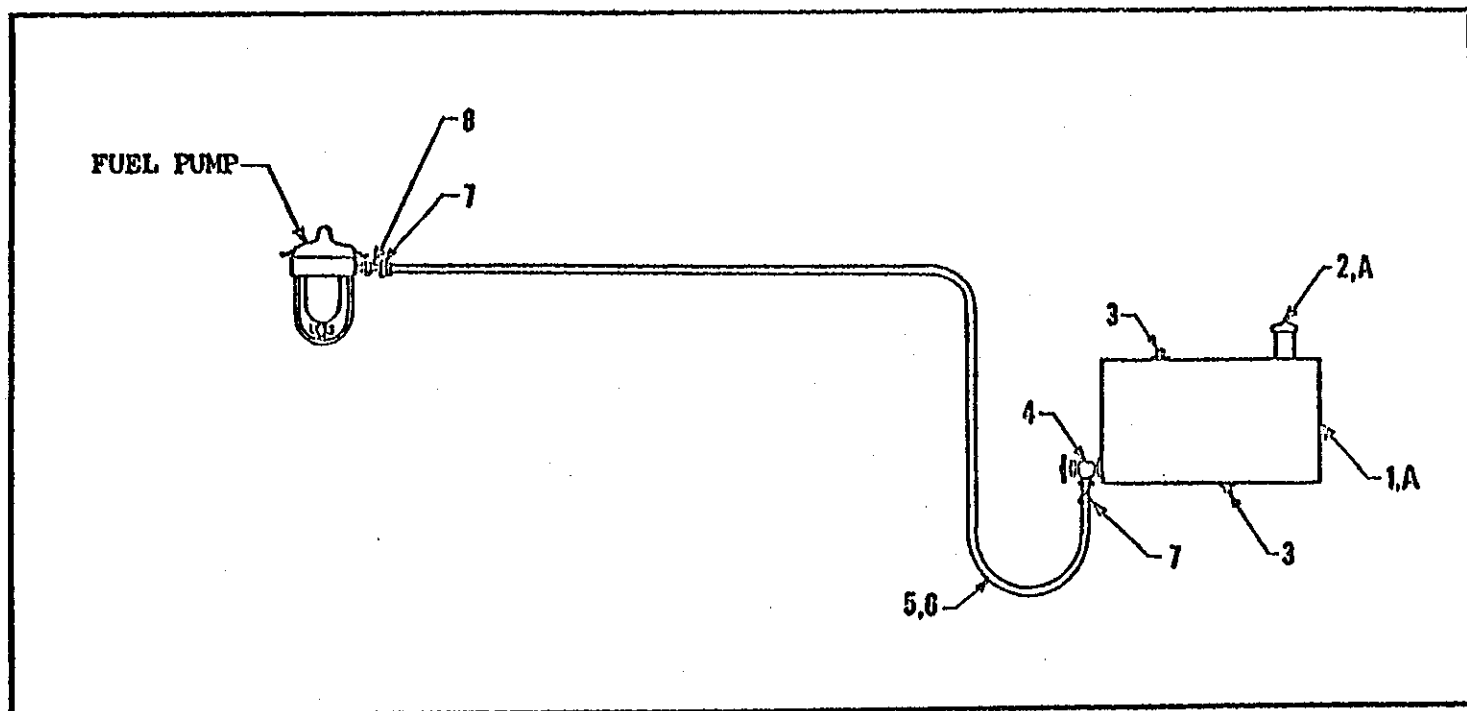
MUFFLER AND ATTACHING PARTS

1	HCF-6635	1	MUFFLER
2	HCF-7193	1	TAIL PIPE (elbow)
3	HCF-7636	1	EXHAUST TUBE
4	HCF-6622	1	GASKET, tube flange (1st type)
5	HCF-8236	1	RING, seal, tube flange (2nd type)
6	POF-12779	1	CLAMP (large)
7	POF-12641	1	CLAMP (small)
8	HCF-6619	1	BRACKET (short)

C

C

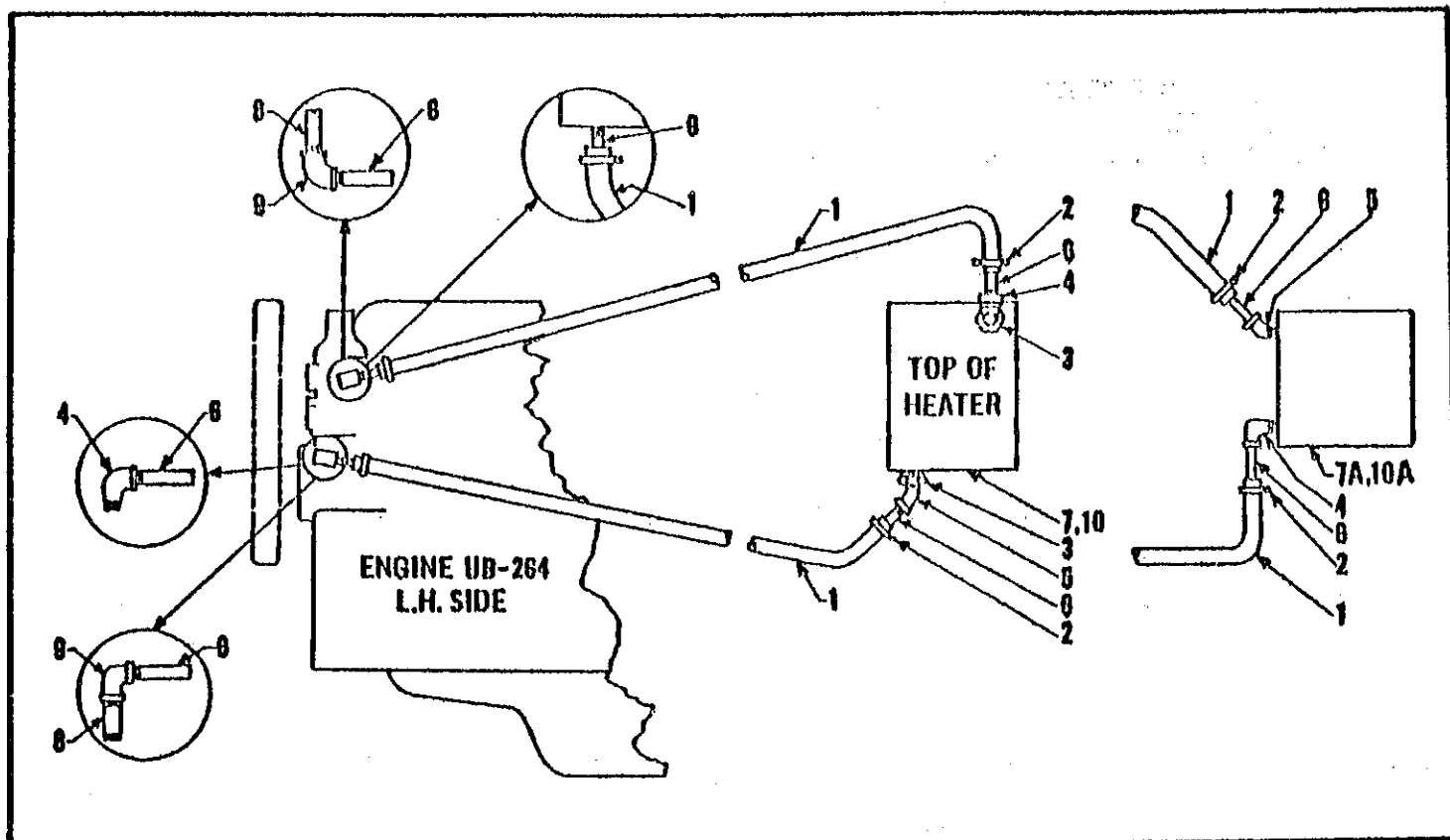
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FUEL SYSTEM
(For IHC Co. - UB-264 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2835	1	TANK, fuel (includes Ref. No. 2)
1A	HCF-10250	1	TANK, fuel (includes Ref. No. 2)
2	PGF-11705	1	CAP, filler neck, regular
2A	HCF-5750	1	CAP, filler neck, flame proof
3	816001	2	PLUG, pipe
4	PGF-9338	1	VALVE, needle
5	HCF-3794	1	HOSE ASSEMBLY (includes Ref. Nos. 6 and 7)
6	HCF-3794-1	1	HOSE
7	PGF-13619-6	2	FITTING, hose
8	840007	1	CONNECTOR

$$x = \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix}, \quad y = \begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix}, \quad z = \begin{pmatrix} z_1 \\ z_2 \\ z_3 \end{pmatrix}, \quad w = \begin{pmatrix} w_1 \\ w_2 \\ w_3 \end{pmatrix}, \quad v = \begin{pmatrix} v_1 \\ v_2 \\ v_3 \end{pmatrix}$$

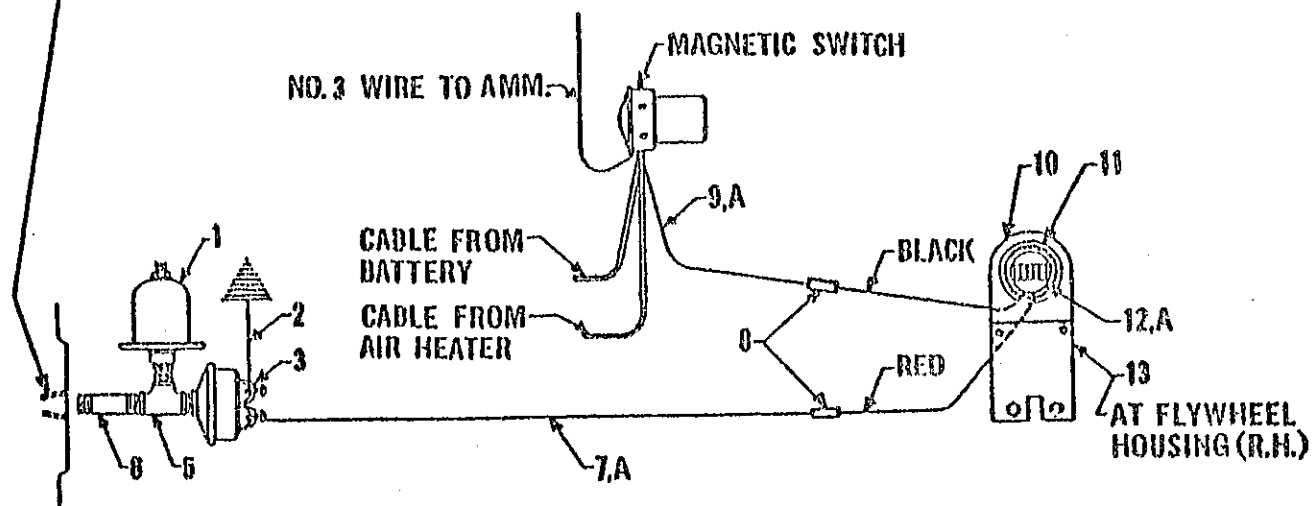


HEATER PIPING DIAGRAM
(For IHCo. - UB-264 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-3897	2	HOSE
2	034010	2	CLAMP, hose
3	884008	2	BUSHING, reducer
4	563852	1 or 2	ELBOW, 90° street
5	564051	1	ELBOW, 45° street
6	556101	4	NIPPLE
7	PGF-12649	1	HEATER, 12 volt (7-7/8" x 10-1/4", without mounting brackets)
7A	HCF-7746	1	HEATER, 12 volt (7-1/2" x 7-1/2", with mounting bracket)
8	532095	1	NIPPLE
9	522003	1	ELBOW, 90°
10	HCF-3881	2	SUPPORT, heater mounting (for Ref. 7)
10A	HCF-8610	1	SUPPORT, heater mounting (for Ref. 7A)

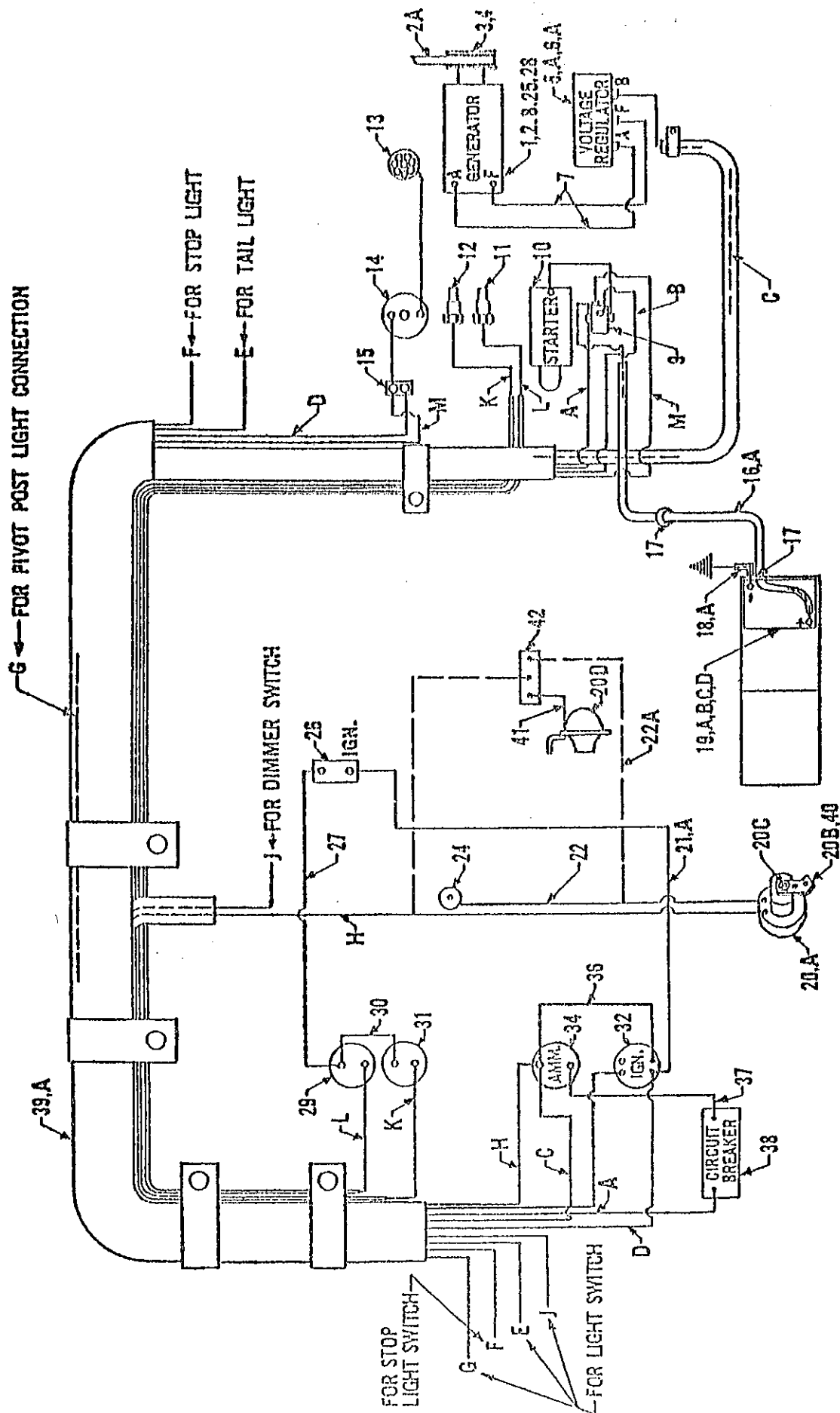
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TAPPED HOLE PROVIDED IN BLOCK FOR
OIL PRESSURE LINE:
LEFT SIDE OF ENGINE NEAR FLYWHEEL HOUSING



HOURLMETER WIRING DIAGRAM
(For IHC Co. - UB-264 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-5696	1	SENDER, oil pressure
2	PGF-6517	1	WIRE, pressure switch to ground
3	PGF-11652	1	SWITCH, pressure
5	537001	1	TEE
6	532002	1	NIPPLE
7	HCF-3893	1	WIRE, switch to connector (for Ref. 12)
7A	HCF-8454	1	WIRE, switch to hourmeter (for Ref. 12A)
8	PGF-10421	2	CONNECTOR, wire (for Ref. 12)
9	HCF-3894	1	WIRE, switch to connector (for Ref. 12)
9A	HCF-8450	1	WIRE, switch to hourmeter (for Ref. 12A)
10	HCF-3888	1	BRACKET, mounting
11	PGF-14641	1	DAMPENER, vibration
12	HCF-4637	1	HOURLMETER, with connecting wires (order Ref. Nos. 7A, 9A and 12A)
12A	HCF-8456	1	HOURLMETER, with wire terminals
13	HCF-7021	1	PLATE, support



(For Part Numbers,
see next page)

ELECTRICAL ACCESSORIES AND WIRING DIAGRAM
(For IHC Co. - UB-264 Engine)

ELECTRICAL ACCESSORIES FOR IHCo. - UB-264 GASOLINE ENGINE
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-6917	1	GENERATOR (standard - 30 Amperes)
2	HCF-9071	1	GENERATOR (special - 50 Amperes)
2A	HCF-7750	1	BELT (for Ref. Nos. 1 and 2))
3	HCF-7000	1	PULLEY (for Ref. No. 1)
4	HCF-6920	1	PULLEY (for Ref. No. 2)
5	PGF-15532	1	% REGULATOR, voltage (for Ref. No. 1)
5A	HCF-9204	1	@ REGULATOR, voltage (for Ref. No. 1)
6	PGF-16447	1	% REGULATOR, voltage (for Ref. No. 2)
6A	HCF-9203	1	@ REGULATOR, voltage (for Ref. No. 2)
7	HCF-7206	2	WIRE, generator to voltage regulator
8			BRACKET, generator (for Ref. No. 1) (see engine repair catalog)
9			SOLENOID, starter } (see engine
10			MOTOR, starting } repair catalog)
11	HCF-5693	1	SENDER, temperature
12	HCF-5696	1	SENDER, oil pressure
13			DISTRIBUTOR } (see
14			IGNITION COIL } engine
15			RESISTOR } repair catalog)
16	HCF-2744	1	% CABLE, battery to starter solenoid
16A	HCF-9799	1	@ CABLE, battery to starter solenoid
17	PGF-10120	3	GROMMET
18	HCF-3311	1	% CABLE, battery to ground
18A	HCF-5011	1	@ CABLE, battery to ground
19	HCF-5226	1	BATTERY, 12 volt
19A	HCF-2078	2	* STUD, for battery
19B	HCF-6363	1	* BASE, for battery
19C	HCF-6007-1	1	* CLAMP, for battery
19D	HCF-6395	1	* STRAP, tie, for battery
20	HCF-2499	1	HORN (1st type - order Ref. Nos. 20A, B and C)
20A	HCF-9250	1	HORN (2nd type)
20B	HCF-9251	1	BRACKET } (For Ref.
20C	HCF-9252	1	NUT, mounting } No. 20A)
20D	PGF-18406	1	HORN (3rd type)
21	HCF-6360	1	WIRE, ignition switch to voltage regulator
21A	HCF-9631	1	WIRE, ignition switch to voltage regulator
22	HCF-7644	1	WIRE, horn to steering column
22A	HCF-7562	1	WIRE, horn to steering column
24			BUTTON, horn (see steering gear page)
25	HCF-7461	1	* BRACKET, generator (for Ref. No. 2)
26	HCF-5692	1	REGULATOR, voltage (for gauges)
27	HCF-4389	1	WIRE, voltage regulator to temperature gauge
28	HCF-7869	1	* STRAP, generator adjustment (for Ref. No. 2)
29			GAUGE, temperature (see instrument page)
30	HCF-4389	1	WIRE, temperature gauge to oil pressure gauge
31			GAUGE, oil pressure (see instrument page)
32			SWITCH, starter (see instrument page)
34			AMMETER (see instrument page)
36	HCF-9630	1	WIRE, ammeter to ignition switch
37	HCF-6359	1	WIRE, ammeter to circuit breaker
38	HCF-6217	1	BREAKER, circuit
39	HCF-7092	1	HARNESS, wiring
39A	HCF-9390	1	HARNESS, wiring
40	HCF-2717	1	BRACKET (for Ref. No. 20)
41	HCF-11470	1	WIRE - horn to relay
42	HCF-11401	1	RELAY
43	PGF-18200	1	* ALTERNATOR ASSEMBLY - 12 Volt - 60 Amperes
44	PGF-18181	1	* REGULATOR, voltage
45	PGF-18201	1	* RELAY
46	HCF-11088	1	* PULLEY
47	HCF-11078	1	* STRAP
48	HCF-11077	1	* BRACKET
49	HCF-11079	1	* BELT

Note: * Parts not illustrated.

% For use with "POSITIVE" grounded battery only.

@ For use with "NEGATIVE" grounded battery only.

IHCo. - UDT-282 DIESEL ENGINE AND RELATED PARTS
(Not Illustrated)
ENGINE AND ATTACHING PARTS

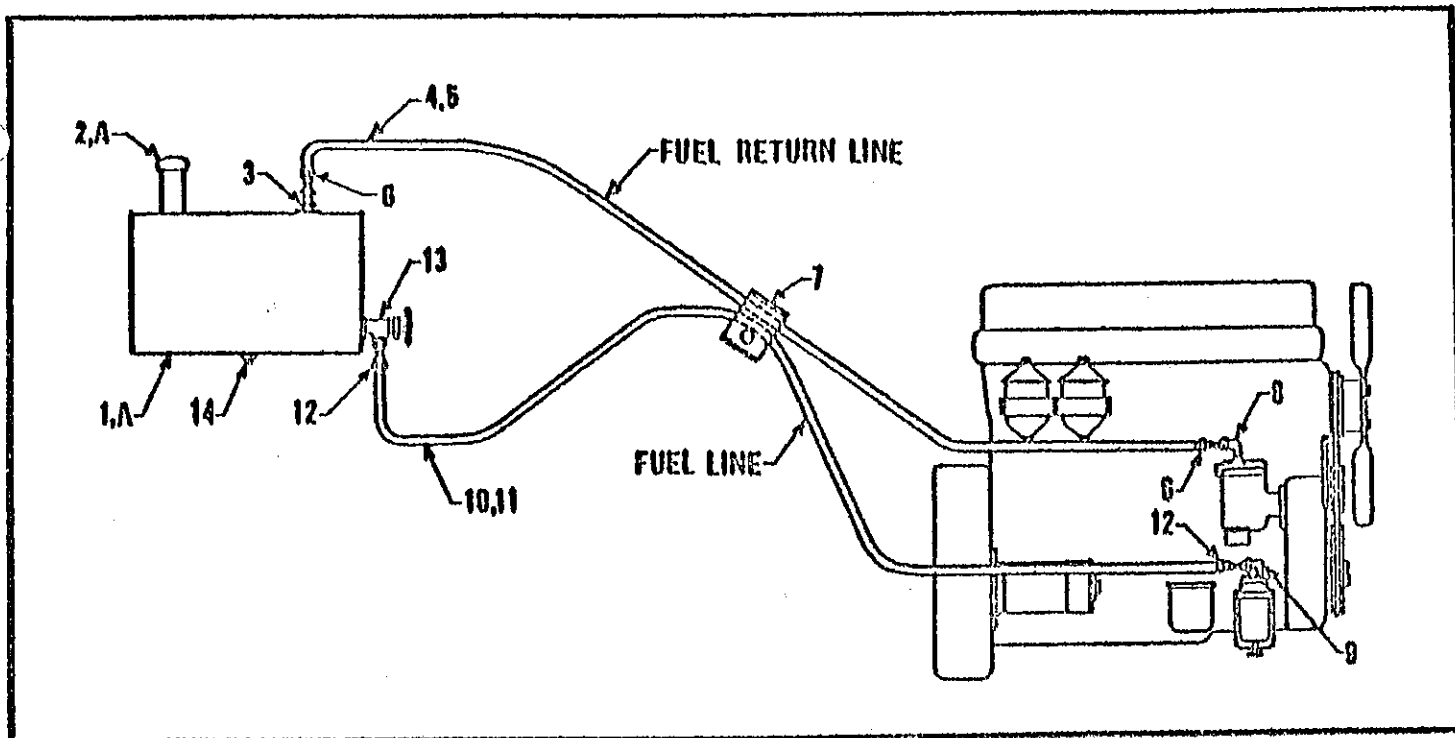
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-8192	1	ENGINE - UDT-282 (uses converter drive plate, Ref. No. 29, shown on page H-1.10)-(see engine parts catalog)
2	HCF-10072	1	ENGINE - UDT-282 (uses converter drive plate, Ref. No. 29, shown on page H-1.10)-(see engine parts catalog)
3	HCF-7089	1	FAN, 20" dia.
4	HCF-7443	1	BELT, fan
5	HCF-2388	6	STUD, fan and pump pulley
6	PGF-9738	3	LOCK WIRE, for pulley stud
7	HCF-6485	1	SUPPORT, engine, front (cross angle on engine)
8	HCF-6630	1	SUPPORT, engine, front, L.H. (between cross angle and engine)
9	HCF-6631	1	SUPPORT, engine, front, R.H. (between cross angle and engine)
10	HCF-6627	1	SUPPORT, engine, rear, R.H. (on engine)
11	HCF-6628	1	SUPPORT, engine, rear, L.H. (on engine)
12	HCF-6629	2	SUPPORT, engine, rear (on frame)
13	WRF-2452-5	2	INSULATOR for front support
14	HCF-5149	2	WASHER for insulator
15	HCF-5438	2	BOLT for front support
16	737004	2	NUT, slotted, front support bolt
17	HCF-8691	1	SUPPORT, engine, front, R.H. (on frame)
18	HCF-6632	1	SUPPORT, engine, front, L.H. (on frame)
19	755097	1	SETSCREW, cup point, pump belt adjustment
20	HCF-9032	1	BRACKET, exhaust elbow
21	HCF-9041	4	SPACER, bracket, for exhaust elbow
22	HCF-9039	1	TAIL PIPE, exhaust elbow
23	PGF-14937	1	CLAMP, tail pipe

RADIATOR, CONNECTIONS AND ATTACHING PARTS

24	HCF-6686	1	RADIATOR
25	HCF-6966	1	SHROUD (half), R.H.
26	HCF-7184	1	SHROUD (half), L.H.
27	PGF-13773	2	SPACER, pipe (at top of shroud)
28	HCF-7182	1	STRAP, top, for shroud
29	HCF-7183	1	STRAP, bottom, for shroud
30	HC-391	1	INLET
31	HC-499	1	ELBOW, lower
32	HC-500	1	OUTLET (on radiator)
33	BRF-2137	2	GASKET
34	HCF-4452-3	6	CLAMP, hose
35	HCF-2815	1	HOSE, upper (2" ID x 1 1/4")
36	HCF-6224	2	HOSE, lower (2" ID x 3")
37	HCF-7906	2	SPACER, radiator mounting

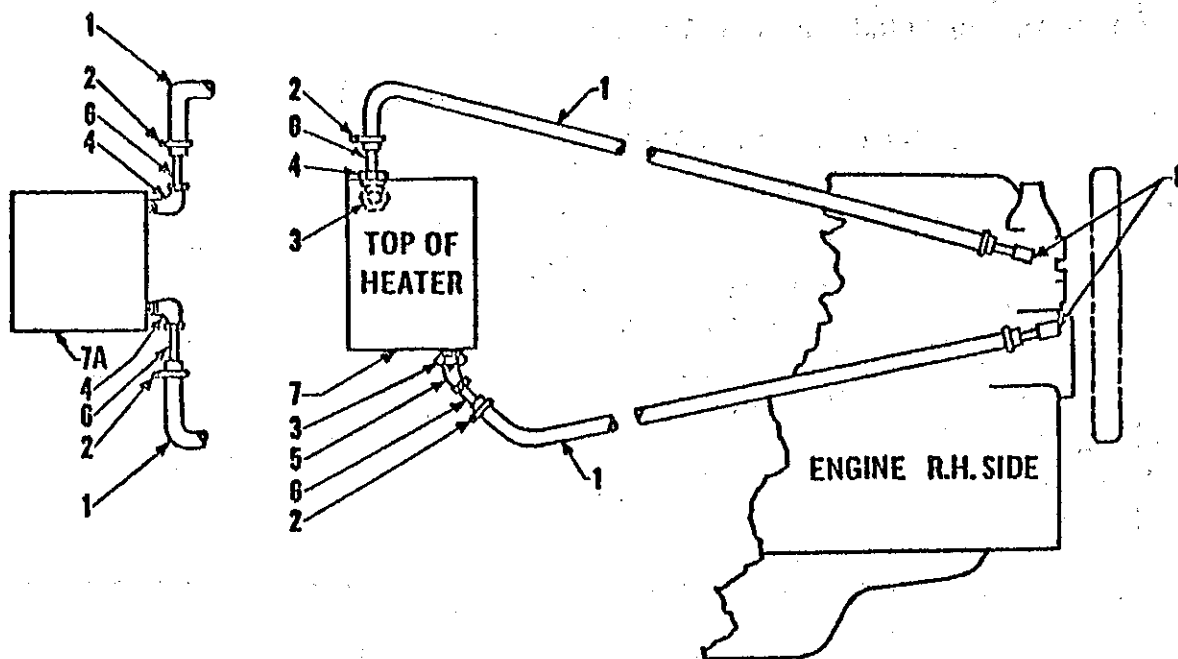
AIR CLEANER AND ATTACHING PARTS

38	HCF-8461	1	AIR CLEANER (includes #035116 body, #035117 tray, #035118 clamp, and #035017 oil cup)
39	HCF-8459	1	CAP
40	HCF-11191	1	BRACKET
41	HCF-8559	2	BAND
42	HCF-8421	1	TUBE
43	HCF-11183	1	HOSE
44	WRF-1259	1	HOSE (3" ID x 4")
45	HCF-4452-5	4	CLAMP, hose
46	HCF-9303	1	TUBE, BREATHIER (engine to air cleaner)
47	HCF-9302	1	HOSE, breather tube (3/8" ID x 3")
48	034106	2	CLAMP, breather tube hose



FUEL SYSTEM
(For IHCo. - UD-282 and UDT-282 Engines)

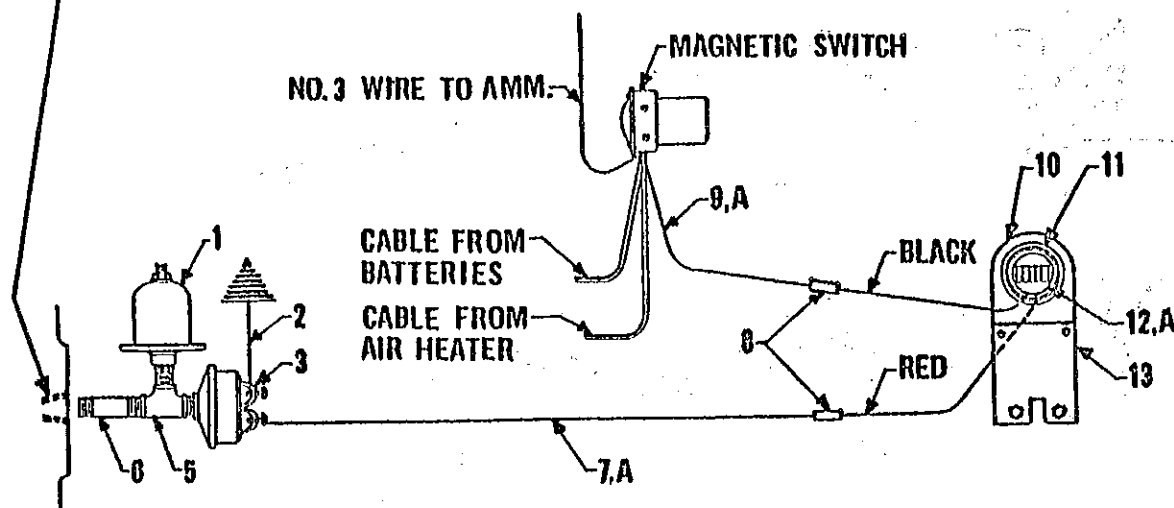
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-2835	1	TANK, fuel (includes Ref. No. 2)
1A	HCF-10250	1	TANK, fuel (includes Ref. No. 2)
2	PGF-11705	1	CAP, filler neck, regular
2A	HCF-5750	1	CAP, filler neck, flame proof
3	840006	1	CONNECTOR, half-union
4	HCF-6926	1	HOSE ASSEMBLY (includes Ref. Nos. 5 and 6)
5	HCF-6926-1	1	HOSE
6	PGF-13619-3	2	CONNECTOR
7	HCF-3080	1	CLIP
8	835005	1	ELBOW
9	835008	1	ELBOW
10	HCF-3796	1	HOSE ASSEMBLY (includes Ref. Nos. 11 and 12)
11	HCF-3796-1	1	HOSE
12	PGF-13619-6	2	CONNECTOR
13	PGF-9338	1	VALVE, needle
14	816001	1	PLUG, pipe



HEATER PIPING DIAGRAM
(For IHCo. - UD-282 and UDT-282 Engines)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-3897	2	HOSE
2	034010	2	CLAMP, hose
3	884008	2	BUSHING, reducer
4	563852	1	ELBOW, 90° street
5	564051	1	ELBOW, 45° street
6	556101	2	NIPPLE
7	PGF-12649	1	HEATER, 12 volt (7-7/8" x 10-1/4", without mounting brackets)
7A	HCF-7746	1	HEATER, 12 volt (7-1/2" x 7-1/2", with mounting bracket)
8			FITTINGS (see engine repair catalog)

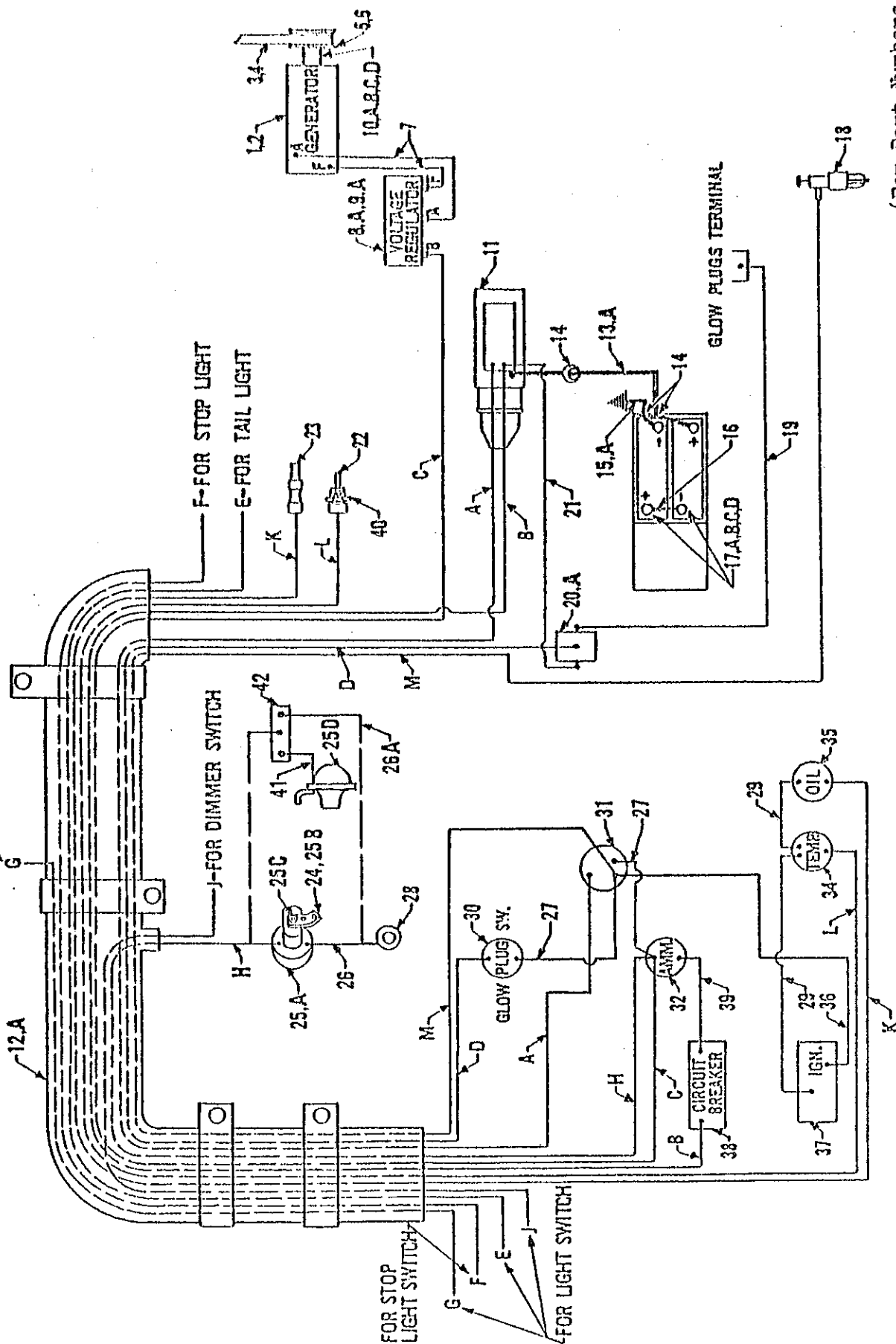
TAPPED HOLE PROVIDED IN BLOCK FOR
OIL PRESSURE LINE:
LEFT SIDE OF ENGINE NEAR FLYWHEEL HOUSING



HOURLMETER WIRING DIAGRAM
(For IHCo. - UD-282 and UDT-282 Engines)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-5696	1	SENDER, oil pressure
2	PGF-6517	1	WIRE, pressure switch to ground
3	PGF-11652	1	SWITCH, pressure
5	537001	1	TEE
6	532002	1	NIPPLE
7	HCF-3893	1	WIRE, switch to connector (for Ref. 12)
7A	HCF-8454	1	WIRE, switch to hourmeter (for Ref. 12A)
8	PGF-10421	2	CONNECTOR, wire (for Ref. 12)
9	HCF-3894	1	WIRE, switch to connector (for Ref. 12)
9A	HCF-8450	1	WIRE, switch to hourmeter (for Ref. 12A)
10	HCF-3888	1	BRACKET, mounting
11	PGF-14641	1	DAMPENER, vibration
12	HCF-4637	1	HOURLMETER, 12 volt
12A	HCF-8456	1	HOURLMETER with wire terminals
13	HCF-7021	1	PLATE, support

FOR PIVOT POST LIGHT CONNECTION



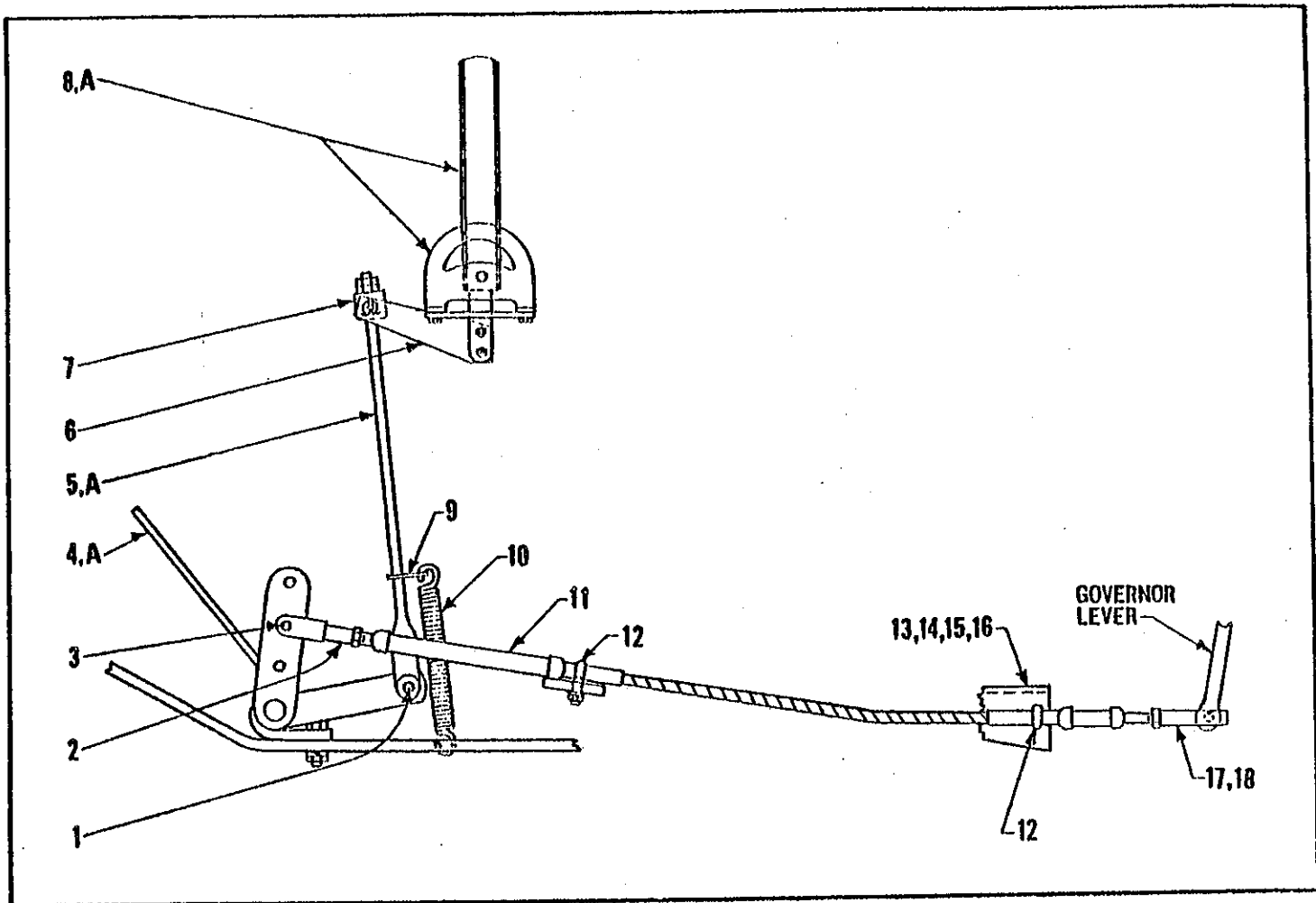
(For Part Numbers, see next page)

ELECTRICAL ACCESSORIES AND WIRING DIAGRAM
(For IHC - UD-282 and UDT-282 Engines)

ELECTRICAL ACCESSORIES FOR INCo. - UD-282 AND UDT-282 DIESEL ENGINES
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-6917	1	GENERATOR (standard - 30 Amperes)
2	HCF-9071	1	GENERATOR (special - 50 Amperes)
3			BELT (for Ref. No. 1) - (see engine catalog)
4	HCF-8284	1	BELT (for Ref. No. 2)
5	HCF-7000	1	PULLEY (for Ref. No. 1)
6	HCF-6920	1	PULLEY (for Ref. No. 2)
7	HCF-7206	2	WIRE, generator to voltage regulator
8	PGF-15532	1	% REGULATOR, voltage (for Ref. No. 1)
8A	HCF-9204	1	@ REGULATOR, voltage (for Ref. No. 1)
9	PGF-16447	1	% REGULATOR, voltage (for Ref. No. 2)
9A	HCF-9203	1	@ REGULATOR, voltage (for Ref. No. 2)
10	PGF-11241-2	1	* SPACER, generator mounting
10A	HCF-7059	1	* BRACKET, rear, for generator
10B	HCF-7060	1	* WATER CONNECTOR AND BRACKET
10C	HCF-7063	1	* STRAP, adjusting, for generator
10D	HCF-8278	2	* BRACKET for generator mounting
11			MOTOR, starting (see engine repair catalog)
12	HCF-6991	1	HARNES, wiring
12A	HCF-9393	1	HARNES, wiring
13	HCF-2744	1	% CABLE, starter solenoid to battery
13A	HCF-9799	1	@ CABLE, starter solenoid to battery
14	PGF-10120	3	GROMMET
15	HCF-3311	1	% CABLE, battery to ground
15A	HCF-5811	1	@ CABLE, battery to ground
16	PGF-10118	1	CABLE, jumper, battery
17	WRF-655	2	BATTERY, 6 volt
17A	HCF-2078	2	* STUD, for battery
17B	HCF-6440	1	* BASE, for battery
17C	HCF-2889	1	* SPACER, for battery
17D	HCF-7843	1	* CLAMP, for battery
18			FUEL PUMP, electric (see engine repair catalog)
19	HCF-6993	1	WIRE, magnetic switch to glow plugs
20	WRF-939	1	SWITCH, magnetic
20A	HCF-8548	1	* BRACKET, magnetic switch (for UDT-282 engine only)
21	HCF-6992	1	WIRE, starter solenoid to magnetic switch
22	HCF-5693	1	SENDER, temperature
23	HCF-5696	1	SENDER, oil pressure
24	HCF-2717	1	BRACKET (for Ref. No. 25)
25	HCF-2499	1	HORN (1st type - order Ref. Nos. 25A, B and C)
25A	HCF-9250	1	HORN (2nd type)
25B	HCF-9251	1	BRACKET (for Ref. No 25A)
25C	HCF-9252	1	NUT, mounting
25D	PGF-18406	1	HORN (3rd type)
26	HCF-7644	1	WIRE, horn to steering column
26A	HCF-7562	1	WIRE, horn to steering column
27	HCF-9630	2	WIRE, amp. to ignition and glow plug switch
28			BUTTON, horn (see steering gear page)
29	HCF-4389	2	WIRE
30			SWITCH, glow plug
31			SWITCH, starter
32			AMMETER
34			GAUGE, temperature
35			GAUGE, oil pressure
36	HCF-9631	1	WIRE, ignition switch to voltage regulator
37	HCF-5692	1	REGULATOR, voltage (for gauges)
38	HCF-6217	1	BREAKER, circuit
39	HCF-6359	1	WIRE, ammeter to circuit breaker
40	884004	1	BUSHING, reducer, temperature sender
41	HCF-11470	1	WIRE, horn to relay
42	HCF-11401	1	RELAY, horn
43	ASF-7071	1	* SWITCH, manifold pre-heaters
44	HCF-6969	1	* PLATE, switch identification
45	PGF-18200	1	* ALTERNATOR ASSEMBLY (60 Amp.-12V)
46	PGF-18181	1	* REGULATOR, voltage
47	PGF-18201	1	* RELAY
48	HCF-11080	1	* PULLEY
49	HCF-11083	1	* STRAP
50	HCF-11081	1	* BRACKET, front
51	HCF-11082	1	* BRACKET, rear
52	HCF-11084	1	* BELT

Note: * Parts not illustrated.
% For use with "POSITIVE" grounded battery only.
@ For use with "NEGATIVE" grounded battery only.

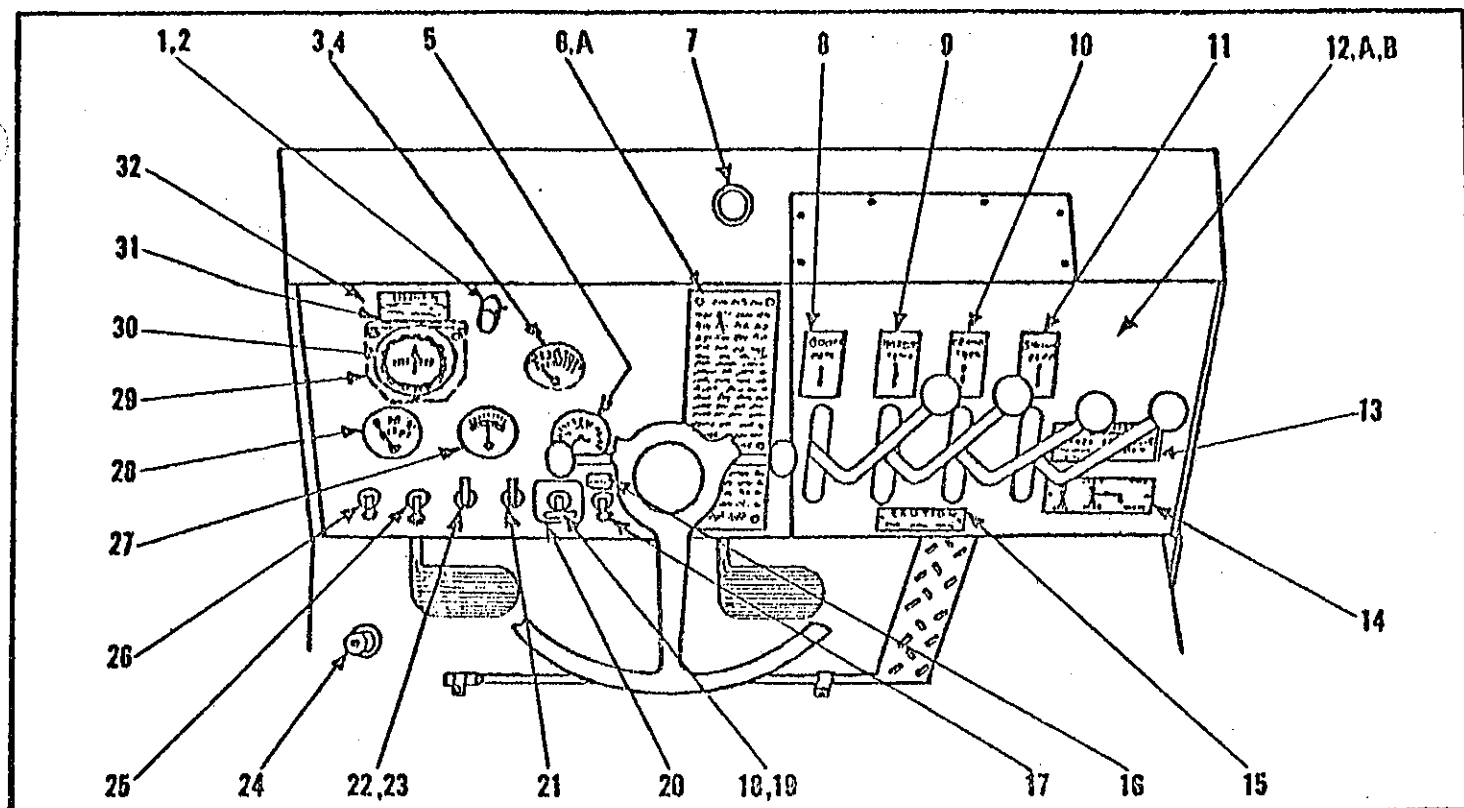


FOOT AND HAND THROTTLE CONTROL

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	783004	1	PIN
2	782002	1	YOKE
3	783002	1	PIN, yoke
4	HCF-7465	1	FOOT PEDAL ASSEMBLY (for all engines except GMC-3-71)
4A	HCF-9261	1	FOOT PEDAL ASSEMBLY (for GMC-3-71 only)
5	HCF-7470	1	ROD WITH YOKE
5A	HCF-9800	1	ROD WITH YOKE (cranes 410-2160 and up)
6	HCF-7469	1	ARM
7	HCF-7468	1	SWIVEL
8	HCF-7467	1	LEVER, hand
8A	HCF-8702	1	LEVER, hand (cranes 410-500 and up)
9	HCF-5414	1	RETAINER, spring
10	HCF-3330	1	SPRING
11	HCF-7466	1	CABLE, throttle control
12	HCF-1095	2	U-BOLT, cable
13	HCF-6884	1	BRACKET, cable (for Ford 332 engine)
14	HCF-7044	1	BRACKET, cable (for IHCo. UB-264 engine)
15	HCF-6928	1	BRACKET, cable (for IHCo. UD-282 engine)
16	HCF-5393	1	BRACKET, cable (for GMC-3-71 engine)
17	PGF-15965-4	1	JOINT, ball and socket (for Ford and IHCo. engines)
18	461044	1	JOINT, ball and socket (for GMC-3-71 engine)

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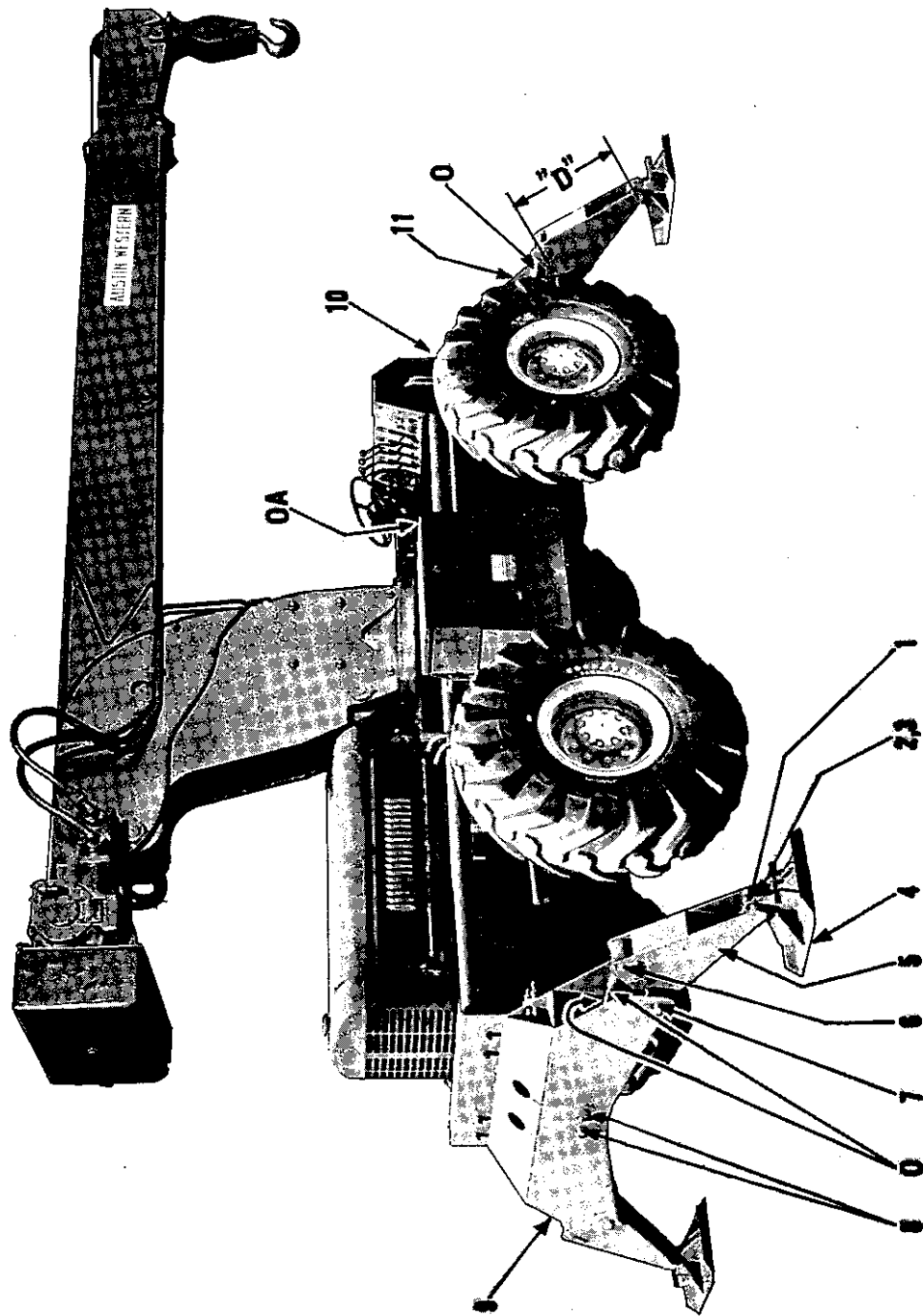
INSTRUMENTS AND CONTROLS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCF-9857	1	LIGHT, dash
2	PGF-11968	1	BULB, dash light (3CP-SC, 12V)
3	HCF-2487	1	GAUGE, torque converter heat (3-3/8" dia.)
4	HCF-9498	1	GAUGE, torque converter heat (2" dia.)
5	HCF-5694	1	GAUGE, engine water heat
6	HCF-7271	1	PLATE, safe load chart
6A	HCF-11005	1	PLATE, safe load chart (410 Sr.)
7	HCF-2872	1	PLUG, cover, master cylinder filler
8	HCF-1523	1	PLATE, boom control
9	HCF-1525	1	PLATE, hoist control
10	HCF-1524	1	PLATE, crowd control
11	HCF-1526	1	PLATE, swing control
12	HCF-4167	1	PANEL, valve control
12A	HCF-9493	1	PANEL, R.H. (cranes 410-2792 to 410-2892)
12B	HCF-11024	1	PANEL, R.H. (cranes 410-2892 and up)

(continued)

(Continued from preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
13	PGF-17639	1	PLATE, name, serial number
14	HCF-2525	1	PLATE, transmission shift diagram
15	HCF-1237	1	PLATE, caution, hoist and crowd controls
16	HCF-6969	1	LABEL, manifold pre-heaters (IHCo. UD-282 engine)
17	ASF-7071	1	SWITCH, glow plugs (IHCo. UD-282 engine)
18	HCF-9688	1	CONTROL, choke (Ford 332 and IHCo. UB-264 engines)
19	HCF-9394	1	CONTROL, engine shut-off (GMC-371 and IHCo. UD-282 engines)
20	HCF-6251	1	PLATE, emergency stop (GMC-371 engine)
21	HCF-6580	1	SWITCH, light
21A	HCF-9851	1	SWITCH, light
22	HCF-6580	1	SWITCH, ignition (regular)
22A	HCF-9632	1	SWITCH, ignition (regular)-(cranes 410-2792 and up)
23	ASFA-5375	1	SWITCH WITH LOCK, ignition (special order)-(not shown)
24	HCF-6583	1	SWITCH, dimmer
25	PGF-10085	1	SWITCH, heater
26	ASF-7071	1	SWITCH, starter (not used on 410-2792 & up)
27	PGF-15810	1	AMMETER (60/60)
28	HCF-5695	1	GAUGE, engine oil pressure
29	HCF-3213	1	PLATE, cover (4-wheel drive)
29A	WRF-831	1	PLATE, cover (4-wheel drive)-(cranes 410-2792 and up)
30			BRAKE SELECTOR VALVE GROUP (2-wheel drive)-(see separate page)
31	HCF-2791	1	PLATE, warning, brake selector valve (2-wheel drive)
31A	HCF-9658	1	PLATE, warning (decal) brake selector valve
32		1	PANEL, instrument (always give crane serial number when ordering)



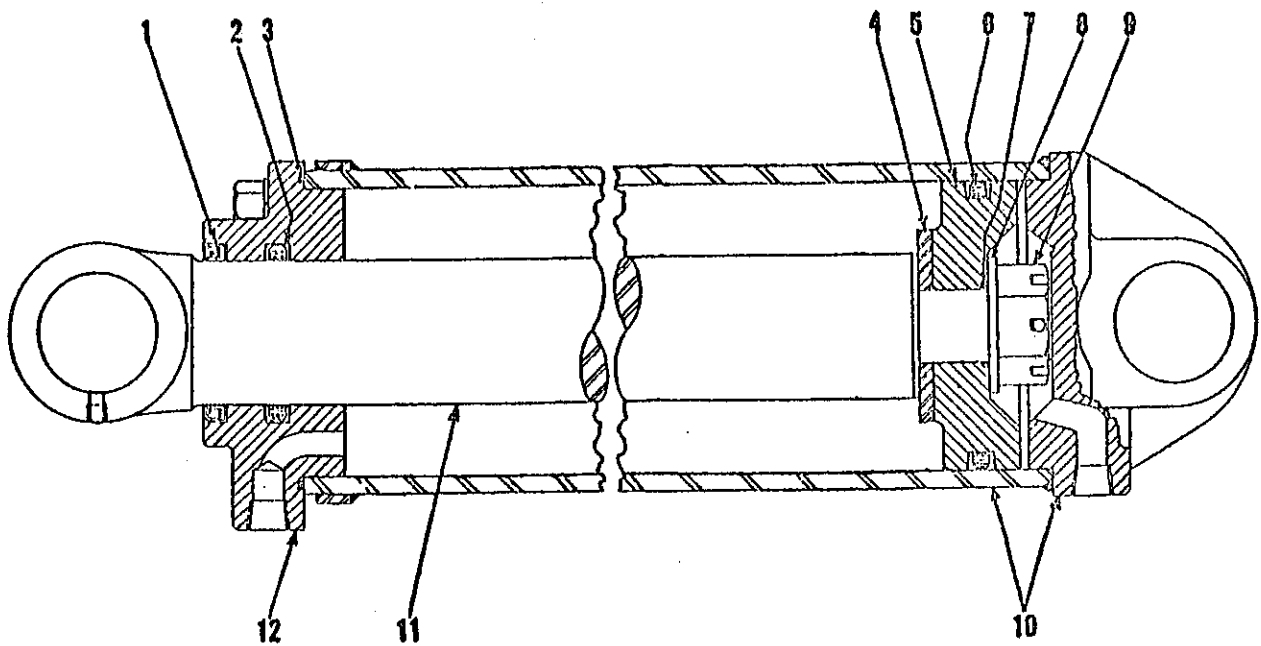
(For Part Numbers,
see next page)

HYDRAULIC OUTRIGGERS

HYDRAULIC OUTRIGGERS
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0			RAM GROUP (see separate page)
0A			CONTROL VALVE GROUP (see separate page)
1	HC-587	4	CAP, ball
2	MGF-1992	As req'd	SHIM, ball cap (.024)
3	PGF-11856	As req'd	SHIM, ball cap (.010)
4	HCF-6857	4	BASE (welded type)
4A	HC-565	4	BASE (cast type)
5	HCF-6853	4	ARM ("D"-28-3/8")
5A	HCF-9052	4	ARM ("D"-31-1/8")
5B	HCF-11161	4	ARM ("D"-31-1/8")
6	HCF-6851	4	PIN WITH KEEPER
7	HCF-6850	4	PIN WITH KEEPER
8	HCF-8049	4	PIN WITH KEEPER (lubrication type)
9	HCF-6990	1	SUPPORT, rear
9A	HCF-8526	1	SUPPORT, rear (no frame spacers)
10	HCF-7018	2	* SPACER, frame to support
11	HCF-6858	1	SUPPORT, front
11A	HCF-8525	1	SUPPORT, front (has welded frame spacers)
11B	HCF-9523	1	SUPPORT, front
12	HCF-8500	1	* BRACKET, pipe (1 front L.H., 1 rear R.H.)
13	HCF-8501	1	* BRACKET, pipe (1 front R.H., 1 rear L.H.)
14	HCF-8502	2	* BRACKET, pipe (front)

Note: * Indicates parts not illustrated.



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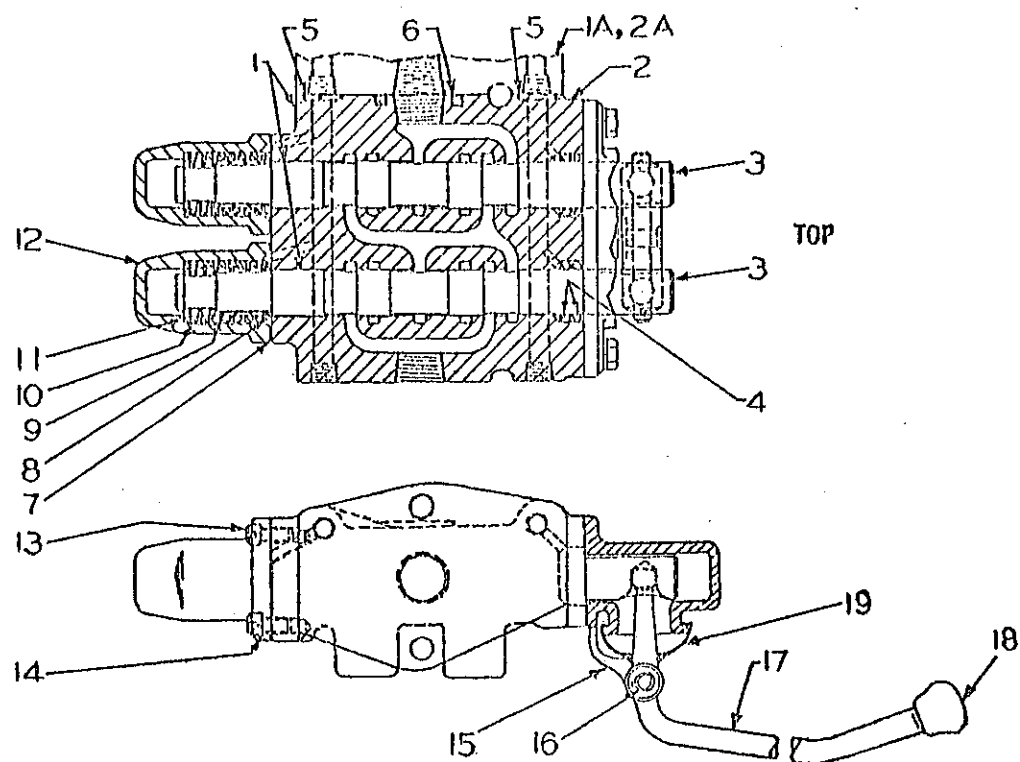
HYDRAULIC OUTRIGGER RAM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	HCU-1126	4	OUTRIGGER RAM GROUP (includes Ref. Nos. 1 to 12 inclusive)
1	194234	1	SEAL, oil
2	PGF-9648-32	1	O-RING
3	PGF-9648-73	1	O-RING
4	HCF-6860	1	WASHER
5	HC-636	1	PISTON
6	PGF-9648-67	1	O-RING
7	PGF-9648-62	1	O-RING
8	HCF-7126	1	WASHER
9	HCF-1318	1	NUT, slotted
10	HCF-6854	1	CYLINDER WITH BASE
11	HCF-6855	1	ROD, piston
12	HC-451	1	HEAD

C

C

C

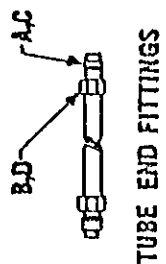


HYDRAULIC OUTRIGGER CONTROL VALVE

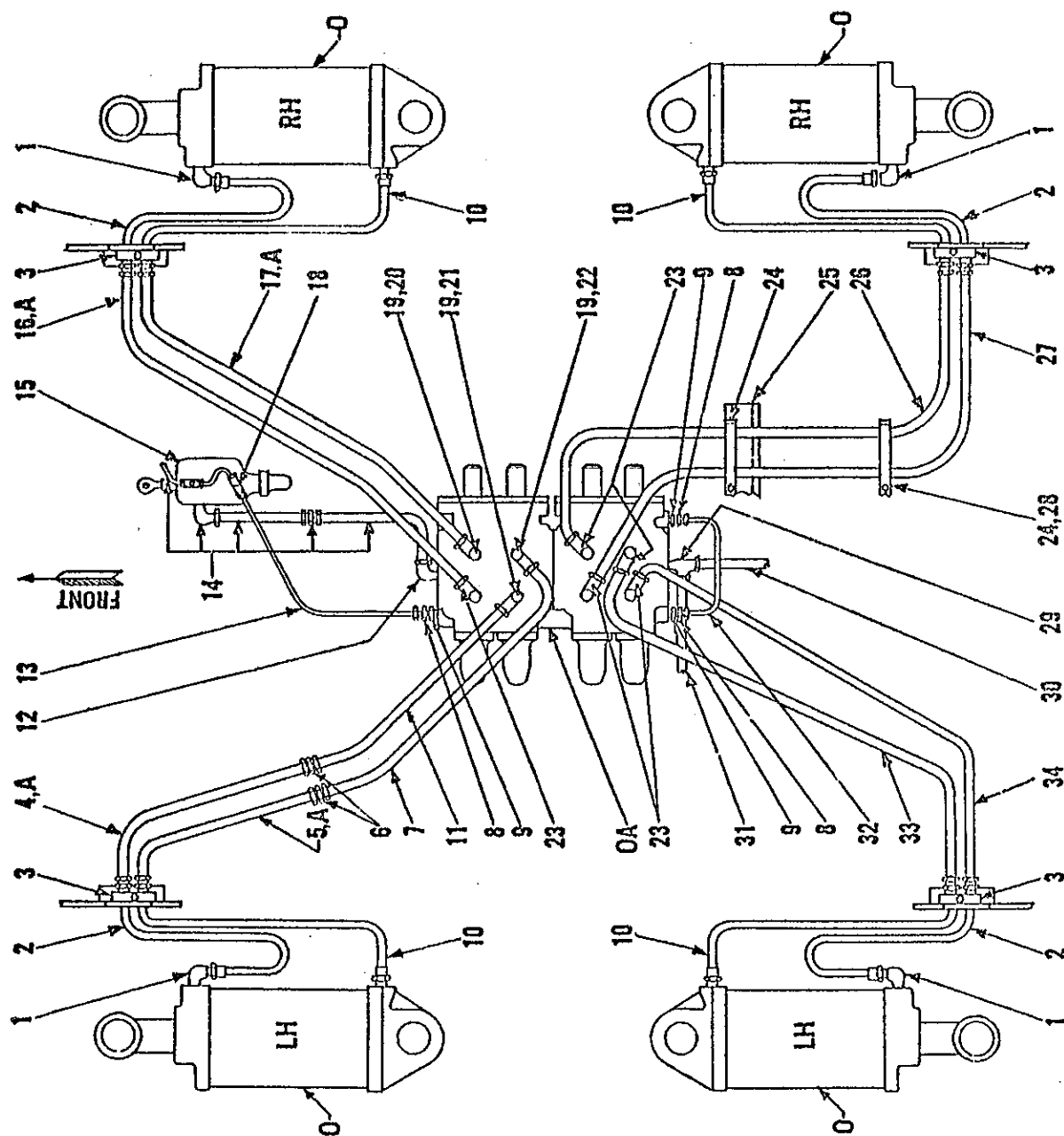
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	HCP-263	1	BODY WITH TWIN VALVE SPOOLS (includes Ref. No. 2 and two Ref. No. 3)
1A	PGPA-1930	1	BODY WITH TWIN VALVE SPOOLS (includes Ref. No. 2A and two Ref. No. 3)
2		1	* BODY, valve
2A		1	* BODY, valve
3		4	* SPOOL, valve (movable)
4	HCF-5980	8	SEAL, oil
5	PGF-9648-25	2	O-RING
6	PGF-9648-2	1	O-RING
7	ASF-5105	4	GASKET
8	PGF-8785	4	WASHER
9	PGF-8781	4	SLEEVE
10	PGF-8775	4	SPRING
11	PGF-8780	4	WASHER
12	AS-1010	4	CAP
13	819133	16	CAPSCREW, hex-socket head
14	HCF-373	16	WASHER
15	HC-371	2	BRACKET, valve lever
16	ASF-5109	2	PIN
17	HCF-6880	4	LEVER, valve
18	PG-1400	4	BALL, valve lever
19	PGF-15741	4	BOOT
20	HCF-6881	2	BRACKET, valve support (not shown)

Note: Parts not sold separately. Order Ref. 1, HCP-263 or Ref. 1A, PGPA-1930 body with twin valve spools from your nearest Austin-Western distributor.





(For Part Numbers,
see next page)



HYDRAULIC OUTRIGGERS HYDRAULIC PIPING DIAGRAM

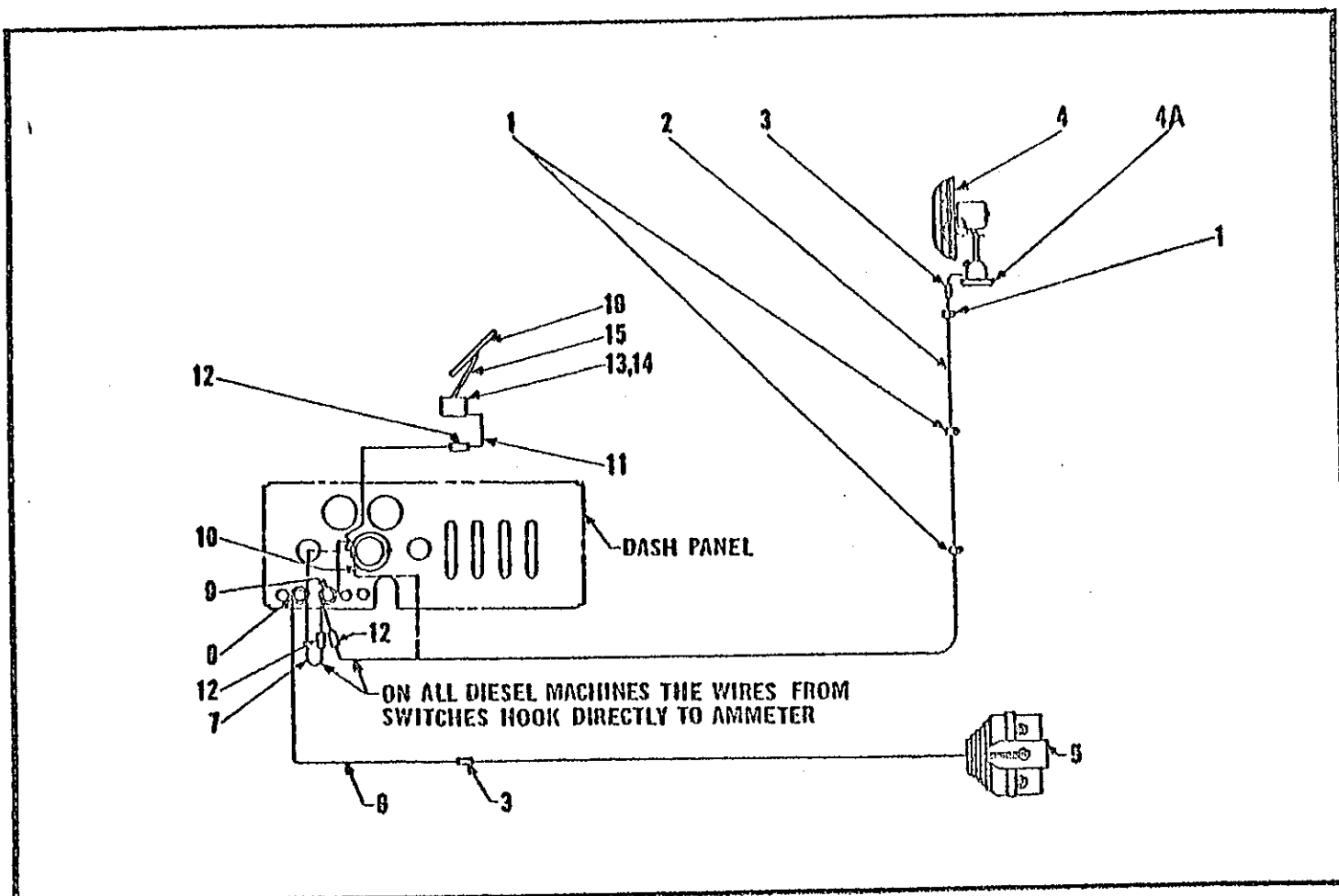
OUTRIGGER HYDRAULIC PIPING PARTS
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
A	PGF-9496-3		SLEEVE, coupling (for 1/4" OD tube)
B	PGF-9497-3		NUT, coupling (for 1/4" OD tube)
C	PGF-9496-7		SLEEVE, coupling (for 5/8" OD tube)
D	PGF-9497-7		NUT, coupling (for 5/8" OD tube)
0			OUTRIGGER RAM) (see separate
0A			OUTRIGGER CONTROL VALVE) page)
1	HCF-1598-4	4	ELBOW
2	PGF-9442	4	HOSE, hydraulic (22" overall length)
3	PGF-9530	4	CLAMP, hydraulic hose
4	HCF-7409	1	* TUBE (5/8" OD x 49-1/2")
4A	HCF-9529	1	* TUBE (5/8" OD x 50")
5	HCF-7408	1	* TUBE (5/8" OD x 49-3/4")
5A	HCF-9528	1	* TUBE (5/8" OD x 50-7/8")
6	PGF-9812-7	2	UNION, coupling
7	HCF-7406	1	* TUBE (5/8" OD x 34-3/8")
8	PGF-10143-3	3	CONNECTOR
9	526001	3	BUSHING, reducer
10	HCF-3389	4	HOSE, hydraulic (32" overall length)
11	HCF-7407	1	* TUBE (5/8" OD x 33-3/8")
12	PGF-10144-8	1	ELBOW (replaces regular PGF-10161-8)
13	HCF-7431	1	% TUBE (1/4" OD x 35-3/4")
14			REGULAR PARTS (see piping diagram)
15			REAR STEER CONTROL VALVE (see separate page)
16	HCF-7412	1	* TUBE (5/8" OD x 49-3/4")
16A	HCF-9530	1	* TUBE (5/8" OD x 50-7/8")
17	HCF-7413	1	* TUBE (5/8" OD x 51")
17A	HCF-9531	1	* TUBE (5/8" OD x 52-1/8")
18	PGF-10147-3	1	TEE (replaces regular PGF-10144-3 elbow)
19	PGF-10145-7	3	ELBOW, 90°
20	530140	1	NIPPLE
21	530142	1	NIPPLE
22	530144	1	NIPPLE
23	PGF-10144-7	5	ELBOW, 90°
24	PGF-9529	2	CLAMP, tubes
25	HCF-6963	1	SUPPORT, tubes
26	HCF-10069	1	* TUBE (5/8" OD x 165-1/4")
27	HCF-10068	1	* TUBE (5/8" OD x 161-7/8")
28	HCF-2563	1	SPACER, tube clamp
29	PGF-10146-8	1	TEE (replaces regular PGF-10185-8)
30			TUBE) (regular part -
31			TUBE) see piping diagram)
32	HCF-3390	1	% TUBE (1/4" OD x 8-7/16")
33	HCF-10066	1	* TUBE (5/8" OD x 162")
34	HCF-10067	1	* TUBE (5/8" OD x 156-5/8")
35	034016	1	CLAMP (Noc-Out), tube (not shown)

Note: Hydraulic hose dimensions given are overall lengths including end fittings.

* Includes two Ref. C, and two Ref. D.

% Includes two Ref. A, and two Ref. B.



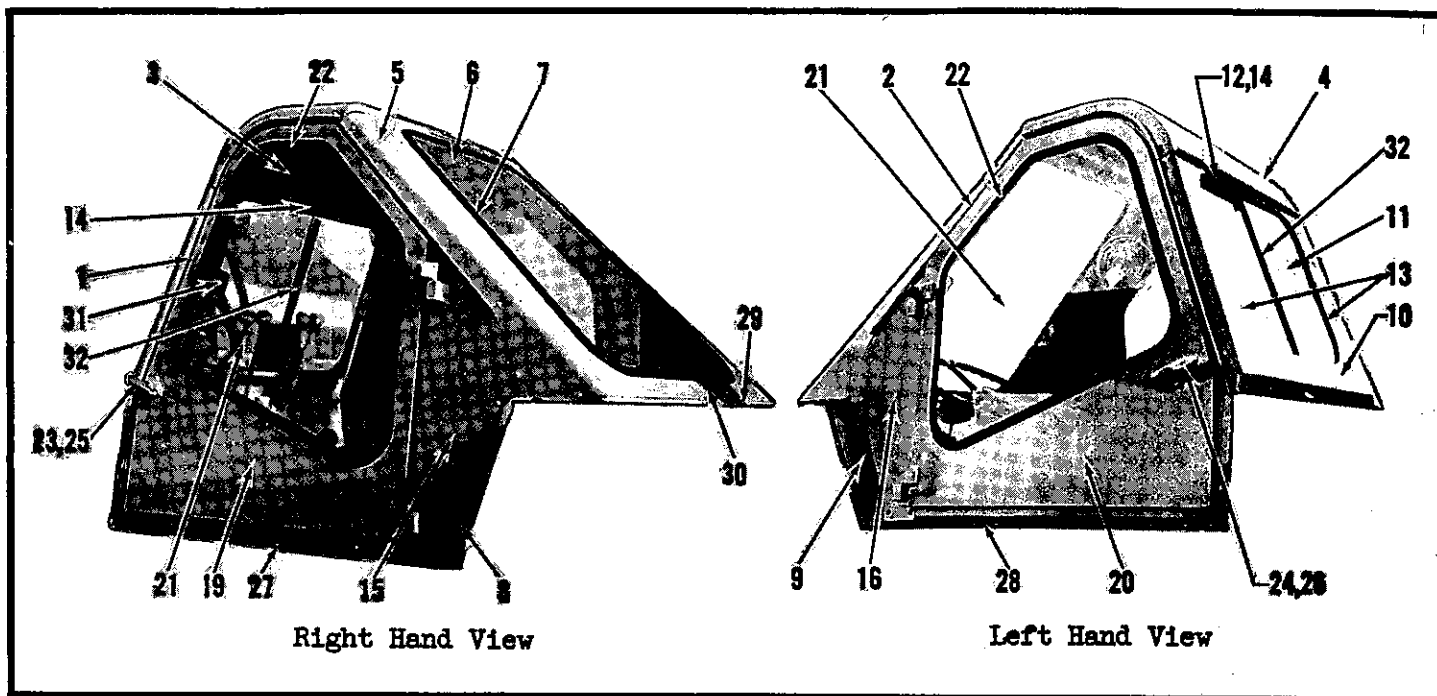
HEATER, DEFROSTER AND WINDSHIELD WIPER WIRING DIAGRAM

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-8175	3	CLIP
2	HCF-9389	1	WIRE
3	PGF-10421	2	CONNECTOR, wire
4	PGF-16070	1	DEFROSTER FAN, 12 volt
4A	HCF-8769	1	BRACKET, mounting, defroster fan
5			HEATER, 12 volt (see separate page)
6	HCF-9500	1	WIRE, connector to heater switch
7	HCF-9227	1	WIRE
8			SWITCH, heater
9			SWITCH, ignition
10			AMMETER
11	HCF-10209	1	WIRE, ammeter to windshield wiper
12	858003	3	FUSE (9 amp.)
13	PGF-9796	1	MOTOR, windshield wiper, 12 volt
14	PGF-10047	1	SPACER, windshield wiper motor
15	PGF-9799	1	ARM, windshield wiper
16	PGF-9797	1	BLADE, windshield wiper

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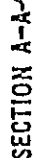
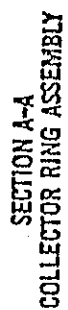
CAB

REF. NO.	PART NO.	QTY. (Frame Guard Cab)	QTY. (Open Side Cab)	QTY. (Closed Cab)	DESCRIPTION
1	HCF-8480	1	1	1	FRAME ASSEMBLY, R.H.
2	HCF-8481	1	1	1	FRAME ASSEMBLY, L.H.
3	HCF-6658	1	1	1	GUARD ASSEMBLY, top
4	HCF-6659		1	1	TOP PANEL ASSEMBLY (roof)
5	HCF-6965		1	1	FRONT PANEL ASSEMBLY (windshield)
6	HCF-6971		1	1	GLASS, front panel
7	PGF-15125-5		1	1	MOULDING, front panel glass
8	HCF-6660		1	1	SUPPORT, R.H., cab front
9	HCF-6661		1	1	SUPPORT, L.H., cab front
10	HCF-6651		1	1	REAR PANEL ASSEMBLY
11	HCF-6664		2	2	GLASS, rear panel
12	HCF-3237-3		2	2	CHANNEL, top and bottom, glass
13	HCF-3237-8		2	2	CHANNEL, side, glass
14	HCF-7845		1	1	BRACKET, glass channel
15	HCF-8478			1	SIDE PANEL ASSEMBLY, R.H.
16	HCF-8477			1	SIDE PANEL ASSEMBLY, L.H.
19	HCF-8470			1	DOOR ASSEMBLY, R.H.
20	HCF-8471			1	DOOR ASSEMBLY, L.H.
21	HCF-8482			2	GLASS, door
22	PGF-15125-22			2	MOULDING, door glass
23	HCF-7100			1	LOCK ASSEMBLY, R.H. outer (door)
24	HCF-7101			1	LOCK ASSEMBLY, L.H. outer (door)
25	PGF-9632			1	LATCH ASSEMBLY, R.H. inner (door)
26	PGF-9633			1	LATCH ASSEMBLY, L.H. inner (door)
27	HCF-6695	1	1	1	PAD, R.H., cab mounting
28	HCF-6696	1	1	1	PAD, L.H., cab mounting
29	HCF-6662		1	1	PAD, cab mounting, front
30	HCF-8060		1	1	PLATE, cover, front panel
31	HCF-7744		2	2	LIFT, finger, rear panel glass
32	HCF-7563		1	1	FELT, rear panel glass

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WIRE OF HARNESS

FLOOD LIGHT WIRING DIAGRAM

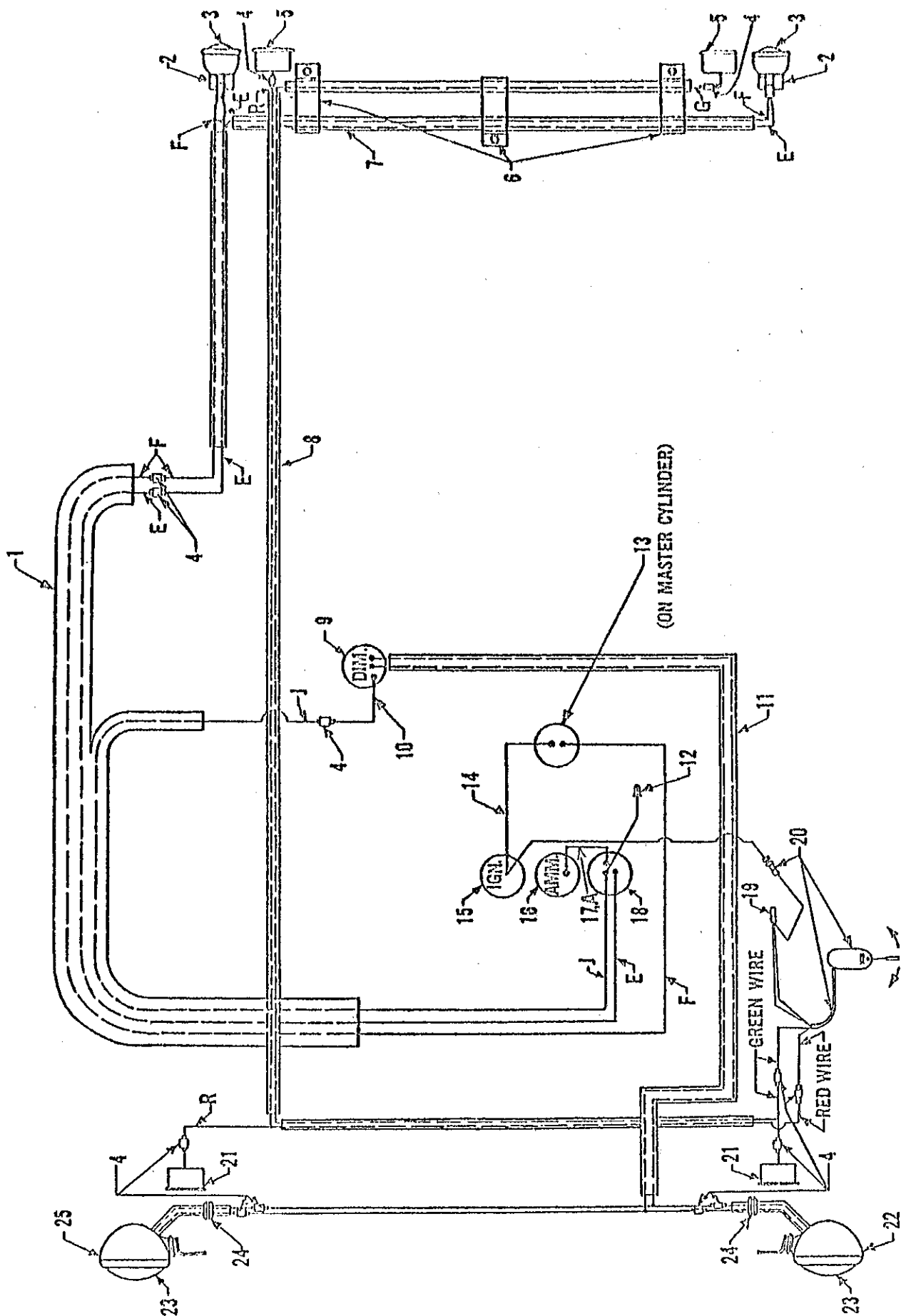
FLOOD LIGHT WIRING
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	SHIPPER SUPPORT
2	HC-150	1	CAP, collector
3	HCF-2526	1	CLIP
4	HCF-8715	1	WIRE, collector
5	HCF-3474	1	* HARNESS, wiring
6	HCF-4066	1	** HARNESS, wiring
7	HCF-7990	1	*** WIRE
8	HCF-2259	9	* CLIP (2 used on shipper support - 7 used on shipper)
9	HCF-8128	1	WIRE, connection to shipper light
10	HCF-2337	1	BRACKET, shipper light
11	HCF-3491	1 or 2	FLOOD LIGHT, 12 volt
12	HCF-8714	1	WIRE, ground shipper light
13		1	SHIPPER
14	HCF-5607	1	WIRE, connector to collector
15	PGF-10421	1	CONNECTOR, wire
16	HCF-9851	1	SWITCH, light
17	HCF-9387	1	WIRE, light switch to ammeter
18			AMMETER (see instrument page)
19	HCF-3418	1	BRACKET, shipper support light
20			SWIVEL VALVE BODY WITH PLUG (regular part - see pivot post page)
21	HCF-1219	1	GASKET (regular part)
22	HCF-3518	1	CAP, swivel valve (replaces regular HCF-2896)
22A	HC-758	1	CAP, swivel valve (replaces regular part)
23	HCF-1362	1	GASKET, collector cap
24	HCF-1242	1	SCREW, contact
25	733001	1	NUT, jam
26	770009	1	WASHER, lock, internal teeth
27	HCF-1357	1	INSULATOR, collector cap
28	HCF-5098	1	SEAL, oil
29	HCF-2894	1	ADAPTER
30	PGF-9648-26	1	O-RING

Note: * Indicates parts required when two flood light are installed on shipper and shipper support.

** Indicates parts required when one flood light is installed on shipper support only.

*** Indicates parts required when one flood light is installed on shipper only.

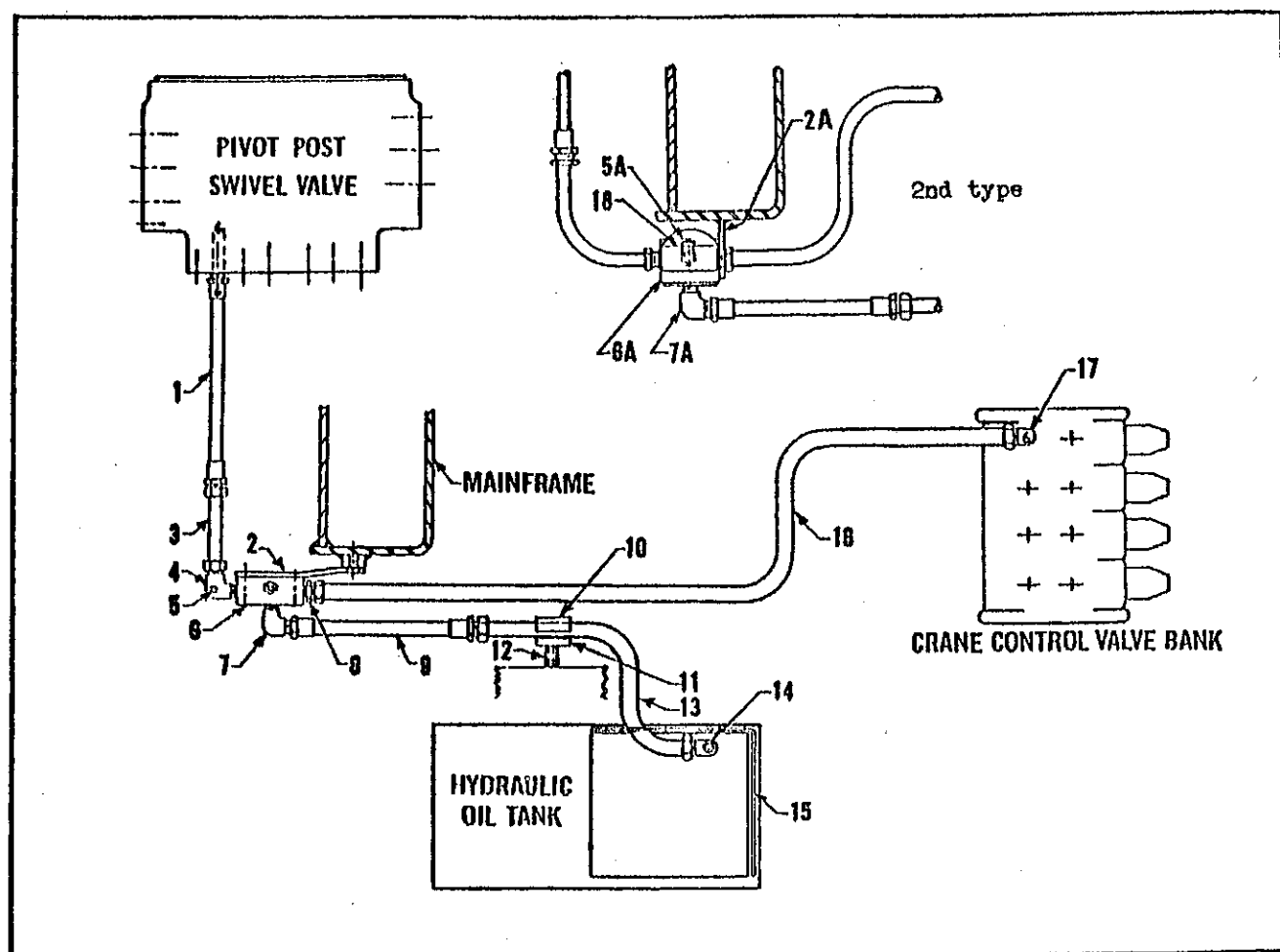


(For Part Numbers, see next page)

WIRING DIAGRAM FOR HEADLIGHTS, TAIL AND STOP LIGHTS, AND TURN SIGNALS
(For All Engines)

WIRING PARTS FOR HEADLIGHTS, TAIL AND STOP LIGHTS, AND TURN SIGNALS
(For illustration, see preceding page)

REF. NO.	PART NO.	QUANTITY	DESCRIPTIONS
1			MAIN WIRING HARNESS (refer to electrical accessories pages)
2	HCF-2686	2	BRACKET, tail light
3	HCF-8468	2	LIGHT, tail and stop (combination)
4	PGF-10421	13	CONNECTOR, wire
5	HCF-5836	2	TURN SIGNAL (red)
6	HCF-2778	3	CLIP
7	HCF-3454	1	HARNESS, wiring, tail and stop lights
8	HCF-3453	1	HARNESS, wiring, turn signals
9			SWITCH, dimmer (see instrument page)
10	HCF-3451	1	WIRE, connector to dimmer switch
11	HCF-3450	1	HARNESS, wiring, headlights
12			LIGHT, dash (see instrument page)
13	PGF-11907	1	SWITCH, stop light
14	HCF-9400	1	WIRE, ignition switch to stop light switch
15			SWITCH, ignition (see instrument page)
16			AMMETER (see instrument page)
17	PGF-13438	1	WIRE, ammeter to light switch
17A	HCF-9387	1	WIRE, ammeter to light switch
18			SWITCH, light (see instrument page)
19	PGF-14903	1	FLASHER
20	HCF-7353	1	SWITCH, turn signal
21	HCF-5835	2	TURN SIGNAL (amber)
22	PGF-11982	1	HEADLIGHT, L.H. (includes Ref. No. 23)
23	121052	2	SEALED BEAM (12 volt)
24	HCF-1866	2	GROMMET
25	PGF-11983	1	HEADLIGHT, R.H. (includes Ref. No. 23)
26	HCF-7484	1	SUPPORT, turn signal switch (not shown) (replaces regular HCF-3052)



SAFE LOAD RELIEF VALVE

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1			HOSE, hydraulic (regular part - see piping diagram)
2	HCF-7728	1	BRACKET, relief valve
2A	HCF-11179	1	BRACKET, relief valve
3	HCF-7729	1	* TUBE (1" OD x 4")-(not used with 2nd type)
4	HCF-7763	1	ELBOW (not used with 2nd type)
5	813001	1	PLUG, pipe
5A	945001	1	PLUG, pipe
6	HCF-7336	1	RELIEF VALVE
6A	HCF-9746	1	RELIEF VALVE
7	PGF-10144-10	1	ELBOW, 90°
7A	HCF-1598-6	1	ELBOW, 90°
8	PGF-10143-10	1	CONNECTOR (not used with 2nd type)
9	HCF-7855	1	HOSE, hydraulic (15" overall length including end fittings)
10	HCF-2567	1	CLAMP, tube (not used with 2nd type)
11	HCF-7727	1	PAD, tube clamp (not used with 2nd type)
12	PGF-11241-2	1	SPACER, tube clamp
13	HCF-7745	1	* TUBE (1" OD x 28-1/2")
14	PGF-10144-10	1	ELBOW, 90° (replaces regular 810005 plug)
15	HCF-7751	1	SHIELD (replaces regular HCF-4750)-(not used with 2nd type)
16	HCF-7753	1	* TUBE (1" OD x 119-1/2")-(replaces regular HCF-7072)
16A	HCF-10913	1	* TUBE
17			ELBOW, 90° (regular part - see piping diagram)
18	HCF-11181	1	TEE

Note: * Indicates two PGF-9496-10 sleeves, and two PGF-9497-10 nuts.

1. The first part of the report deals with the general situation of the country and the position of the various groups of the population. It is a very general and superficial treatment of the subject, but it is a good starting point for a more detailed study.

2. The second part of the report deals with the economic situation of the country. It is a very general and superficial treatment of the subject, but it is a good starting point for a more detailed study.

3. The third part of the report deals with the social situation of the country. It is a very general and superficial treatment of the subject, but it is a good starting point for a more detailed study.

4. The fourth part of the report deals with the political situation of the country. It is a very general and superficial treatment of the subject, but it is a good starting point for a more detailed study.

5. The fifth part of the report deals with the cultural situation of the country. It is a very general and superficial treatment of the subject, but it is a good starting point for a more detailed study.

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