

REPAIR PARTS CATALOG

No. 4050

PACER 300

POWER GRADER

99L

THIS REPAIR PARTS CATALOG APPLIES
TO MACHINES NUMBERED SERIALLY
FROM NO. 99L-100 AND UP

THIS REPAIR PARTS CATALOG APPLIES
TO MACHINE NUMBERED _____

IMPORTANT: ALWAYS GIVE SERIAL NUMBER OF MACHINE WHEN ORDERING PARTS

PRICE \$1.50 PER COPY

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

- TO THE OPERATOR -

Your 99-L Grader is the result of a combination of advanced engineering and research, skilled manufacturing, and the latest developments in metallurgical science. The entire design and construction is such that it can withstand usage with a minimum of maintenance, and will operate smoothly and easily with maximum safety to the operator.

A fine mechanism such as this grader will always respond best to considerate treatment and care. Therefore, before operating it, we suggest that even the experienced operator review the entire contents of this booklet. While the material in this booklet has been prepared in sufficient detail to be of maximum assistance to inexperienced operators, the "Old Timers" will find much information and many of the illustrations of considerable help.

If you should need information not given in this booklet, or require the services of a trained mechanic, we urge you to use the extensive facilities offered by the Austin-Western Distributor in your locality. Distributors are kept informed on the best methods of servicing and are equipped to provide prompt, high class service in the field, or in an up-to-date service station.

When in need of parts always give the Austin-Western Distributor your grader and engine serial numbers. We suggest that you write these serial numbers in the spaces provided below for ready reference when parts are required.

Grader Serial No. 99L-

(STAMPED ON NAME PLATE, ALSO ON FRAME, ON LEFT HAND
SIDE OF GRADER ABOVE FRONT AXLE)

Engine Serial No.

(GM ENGINES - STAMPED ON ENGINE BLOCK, BLOWER SIDE;
ALSO ON ACCESSORY PLATE.

IHC ENGINE - STAMPED ON ENGINE BLOCK ABOVE LUBE
OIL FILTERS)

.....

- WARRANTY -

Company warrants all 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 or 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.

ALWAYS USE GENUINE — 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 AUSTIN-WESTERN WORKS — 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, CAP SCREWS, 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 CAP SCREWS, 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 — 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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See Page 105 for Numerical Index of Parts

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 Austin-Western Distributor for your territory.
2. Give the machine serial number which will be found on the name plate attached to the machine.
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 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.

SHIPPING INSTRUCTION CODES

QSJPK Ship by freight
 PDFRT Ship by freight - prepaid
 AZIRP Ship by freight - C.O.D.
 QSKTP Ship by freight or express
 PDFEX Ship by freight or express - prepaid
 AZIPN Ship by freight or express - C.O.D.
 QSJOJ Ship by express
 PDEXP Ship by express - prepaid
 QSKMI Ship by express - C.O.D.
 AZISQ Ship by air express
 NTSIK Ship by parcel post
 AZIQO Ship by parcel post - C.O.D.
 AZITR Ship by parcel post - special delivery
 QUNIV Ship by consolidated car
 WUNIV Was shipped by consolidated car
 QSROR Ship to our (my) order and notify
 QKRYK Ship what is ready - balance soon as possible
 QWSHP Will ship
 QUNAB Unable to ship
 QRZAM How did you ship
 QSADP How soon can you ship
 QSSZD Telegraph if you can ship at once
 QSUZF When do you expect to ship order (s)
 QSYSC Will ship balance of goods as soon as possible
 QSYEO Will prepare to ship and hold until instructions are received
 QUGYO Shipment (s) must be made (by)
 QUKCW Shipment (s) were (was) made on _____
 QUIME Shipment of has not arrived
 QUCZL Shipment (s) are (is) being held up on account of shortage of some
 requisite material which is expected on _____ estimate shipment can
 be made on or about _____
 PLCPJ Have received no reply from to our (my) letter of
 PLPDK Have received no reply from to our (my) telegram of
 DEBHV Cancel our (my) order for sent in our (my) _____ letter (of)
 DEBIW Cancel our (my) order for sent in our (my) _____ telegram (of)
 PBSWP Refer to our (my) communication of for
 AIRMA Air mail - special delivery

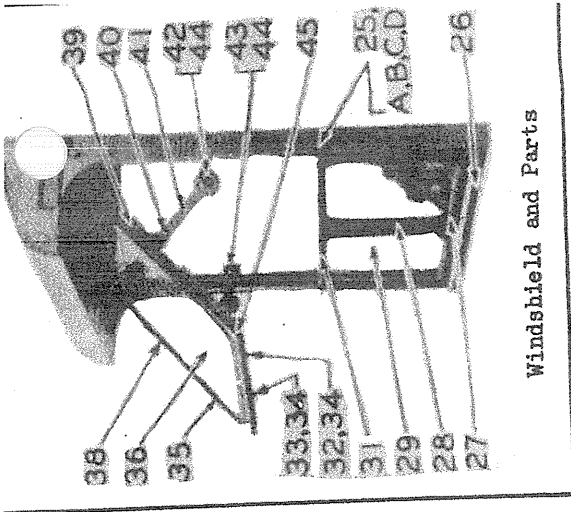
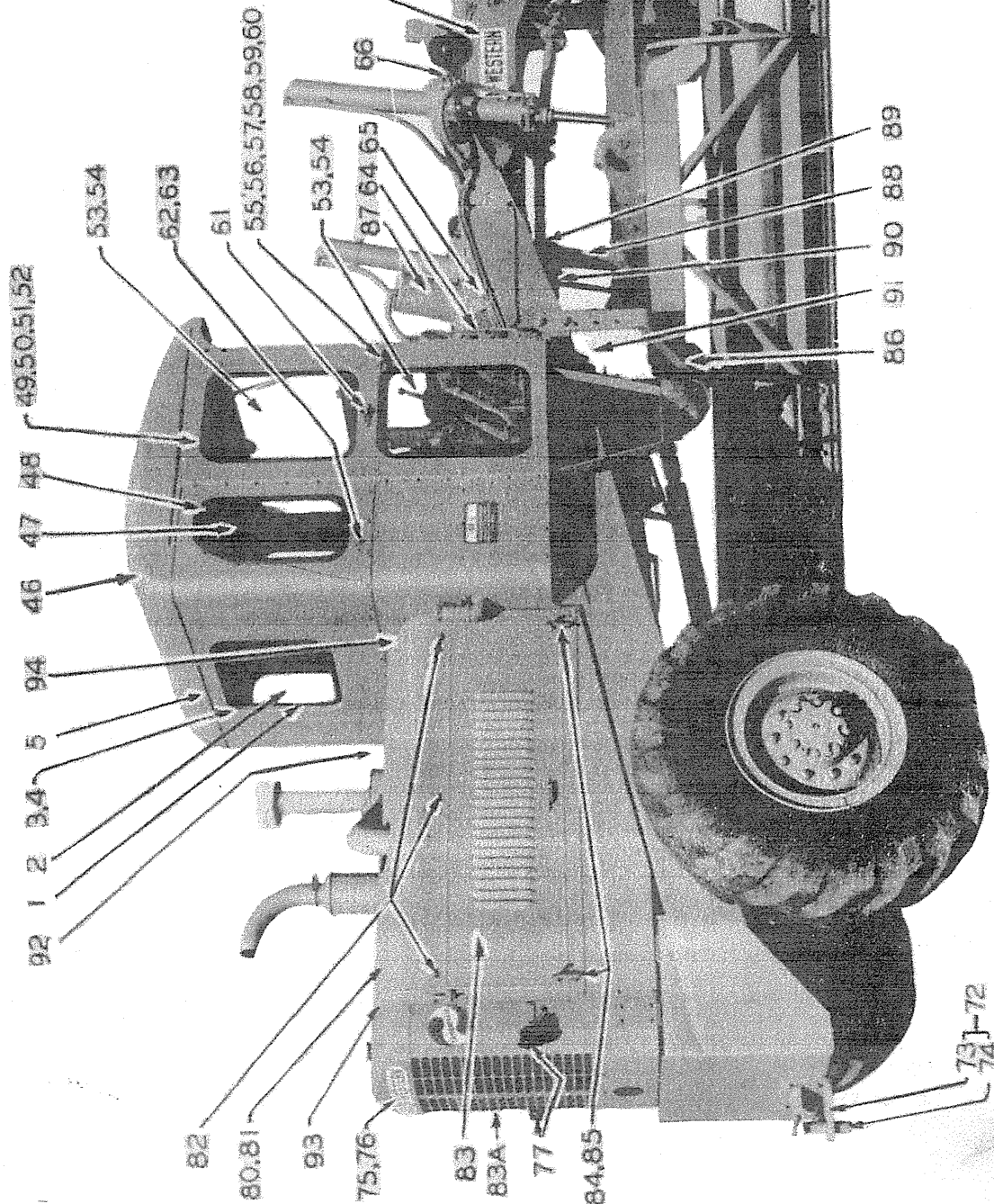
CODES FOR ALL HIGHWAY DEPARTMENTS

AlabamaALSHD	MaineMESHD	OhioOHSHD
ArizonaAZSHD	MarylandMDSHD	OklahomaOKSHD
ArkansasAKSHD	MassachusettsMASHD	OregonORSHD
CaliforniaCALHD	MichiganMCSHD	PennsylvaniaPASHD
ColoradoCOLHD	MinnesotaMNSHD	Rhode IslandRISHD
ConnecticutCONHD	MississippiMISHD	So. CarolinaSCSHD
DelawareDELHD	MissouriMOSHD	So. DakotaSDSHD
FloridaFLAHD	MontanaMTSHD	TennesseeTENHD
GeorgiaGASHD	NebraskaNBSHD	TexasTEXHD
IdahoIDSHD	NevadaNVSHD	UtahUTSHD
IllinoisILLHD	New HampshireNHSHD	VermontVTSHD
IndianaINDHC	New JerseyNJSHD	VirginiaVASHD
IowaIASHC	New MexicoNMSHD	WashingtonWASHD
KansasKASHD	New YorkNYSHD	W. VirginiaWVAHD
KentuckyKYSHD	No. CarolinaNCSHD	WisconsinWISHD
LouisianaLASHD	No. DakotaNDSHD	WyomingWYOHd

Example:-For Pennsylvania State Highway Department
 For Iowa State Highway Commission

Use code "PASHD"
 Use Code "IASHC"

Refer Pages 5, 6 and
7 for Part Numbers



Windshield and Parts

B/M PGU-8251, 8252-1
PGU-8091-A, 253

Figure 1. Miscellaneous Parts

Non-hinged Rear Window Parts

1	PGF-15125-3	1	Rear window glass rubber molding - 77" long
2	PGF-9634	1	Rear window glass
3	PGF-9782	1	Wrapper sheet - upper (regular)
4	PGF-12002	1	@ Wrapper sheet - upper (special order)
5	PGF-9586-1	1	Fender welt - 100" long

Hinged Rear Window Parts (not illustrated)

PGF-15410	1	Wrapper sheet - upper
PGF-15344	1	Rear window
PGF-15345	1	Rear window glass
PGFA-13304-2	2	Rear window frame weatherstrip - 19-3/16" long
PGFA-13304-3	2	Rear window frame weatherstrip - 25-1/4" long
PGF-15350	2	Rear window weatherstrip - 19-3/16" long
PGF-15351	2	Rear window weatherstrip - 25-1/4" long
PGF-15125-14	1	Rear window glass rubber molding - 75-1/4" long
PGF-15352	1	Trough
PGF-9586-5	1	Fender welt - 25" long
PGF-15346	2	Spacer
PGF-13081	2	Rear window arm bracket
PGF-13082	1	Cab bracket with PGF-13093 bushing (R.H.)
PGF-13083	1	Cab bracket with PGF-13093 bushing (L.H.)
PGF-13093	2	Arm bracket bushing
PGF-13080	2	Arm
PGF-13254	1	Rear window latch handle
PGF-13257	1	Rear window latch handle bolt

Miscellaneous Parts

25	PGF-13740	1	Cab front post (no longer furnished. Order Ref. Nos. 25A, B, C and D)
25A	PGF-15377	1	Cab front post
25B	PGF-15375	2	Cab door catch
25C	PGF-15376	2	Cab door shim
25D	822140	4	Hollow head cap screw
26	PGF-13079	1	Cab front post spacer
27	PGF-14472	1	Windshield frame (lower)
28	PGF-13094	1	Cover plate for lower windshield frame
29	PGF-12317	2	Windshield glass (lower)
31	PGF-15125-9	2	Windshield glass lower rubber molding - 67-5/8" long
32	PGF-13255	1	Windshield latch handle (left hand)
33	PGF-13254	1	Windshield latch handle (right hand)
34	PGF-13257	2	Windshield latch handle bolt
35	PGF-14473	1	Windshield frame (upper)
36	PGF-12324	1	Windshield glass (upper)
38	PGF-15125-10	1	Windshield glass upper rubber molding - 136-1/2" long

Note: @ Used only on machines with five windshield wipers, or machines with rear window wiper installation.

(continued)

(Refer to Figure 1 for Reference Numbers)

IF. NO.	PART NO.	QUANTITY	DESCRIPTION
	PGFA-13305-1	2	Windshield frame side sponge rubber weather strip - 21-3/4" long
40	PGF-13081	2	Windshield arm bracket
41	PGF-13080	2	Windshield arm
42	PGP-13083	1	Windshield arm bracket and bushing - cab post (left hand) includes one of Ref. No. 44)
43	PGP-13082	1	Windshield arm bracket and bushing - cab post (right hand) (includes one of Ref. No. 44)
44	PGF-13093	2	Windshield arm bracket bushing
45	PGFA-13304-1	1	Windshield frame bottom sponge rubber weather strip - 52-3/4" long
46	PGF-9781	1	Cab top
47	PGF-9635	2	Cab side window glass
48	PGF-15125-2	2	Cab side window glass rubber molding - 62-1/2" long
49	PGU-8253	1	Door complete - right hand
50	PGU-8254	1	Door complete - left hand
51	PGFA-13689-2	2	Door sponge rubber weatherstrip - 57" long
52	PGFA-13690-2	2	Door sponge rubber weather strip - 106" long
53	PGF-9634	4	Door window glass
54	PGF-15125-3	4	Door window glass rubber molding - 77" long
55	PGF-12953	1	Door handle with 2 keys - outside (R.H.)
56	PGF-12954	1	Door handle - outside (L.H.)
57	PGF-13114	4	Door handle screw
58	PGF-9632	1	Door lock - inside (right hand)
59	PGF-9633	1	Door lock - inside (left hand)
60	PGF-11108	6	Door lock shim
61	PG-1831	2	Door stop nut
62	PGF-8557	2	Door stop clamp
63	PGF-8555	2	Door stop crank
64	PGF-11881	4	Hand grip
65	PGF-10216	10	Stud - pipe clamp to frame
66	MS-380	2	Headlight socket
67	PGF-268	1	Spring - hydraulic hose strap
68	PGF-7487	1	Hydraulic hose strap with grommets - front steer
69	PGF-13009	1	Link - hydraulic hose strap
70	PGF-14863	1	* "U" bolt - front tow hook
72	PGU-2452	1	Rear draw bar group - special order (includes Ref. Nos. 73 and 74)
73	PGF-5212	1	Draw bar bracket
74	BTF-517	1	Draw bar bracket pin
75	PGF-14495	1	Radiator name plate (enamel)
76	918076	8	Tapping screw - name plate
77	PGF-5164	2	Tail light bracket
78	PGF-14230	2	A-W name plate (enamel)
79	751031	16	Drive screw - name plate
80	PGP-14515	1	Hood with PGF-3982 hangers (for GM4-71 engine)
81	PGP-14555	1	Hood with PGF-3982 hangers (for UD-14A engine)
82	PGF-3982	6	Hood hanger (riveted on)
83	PGF-14518	1	Side door - right hand
83A	PGF-14512	1	* Side door - left hand

Note: * Indicates parts not illustrated.

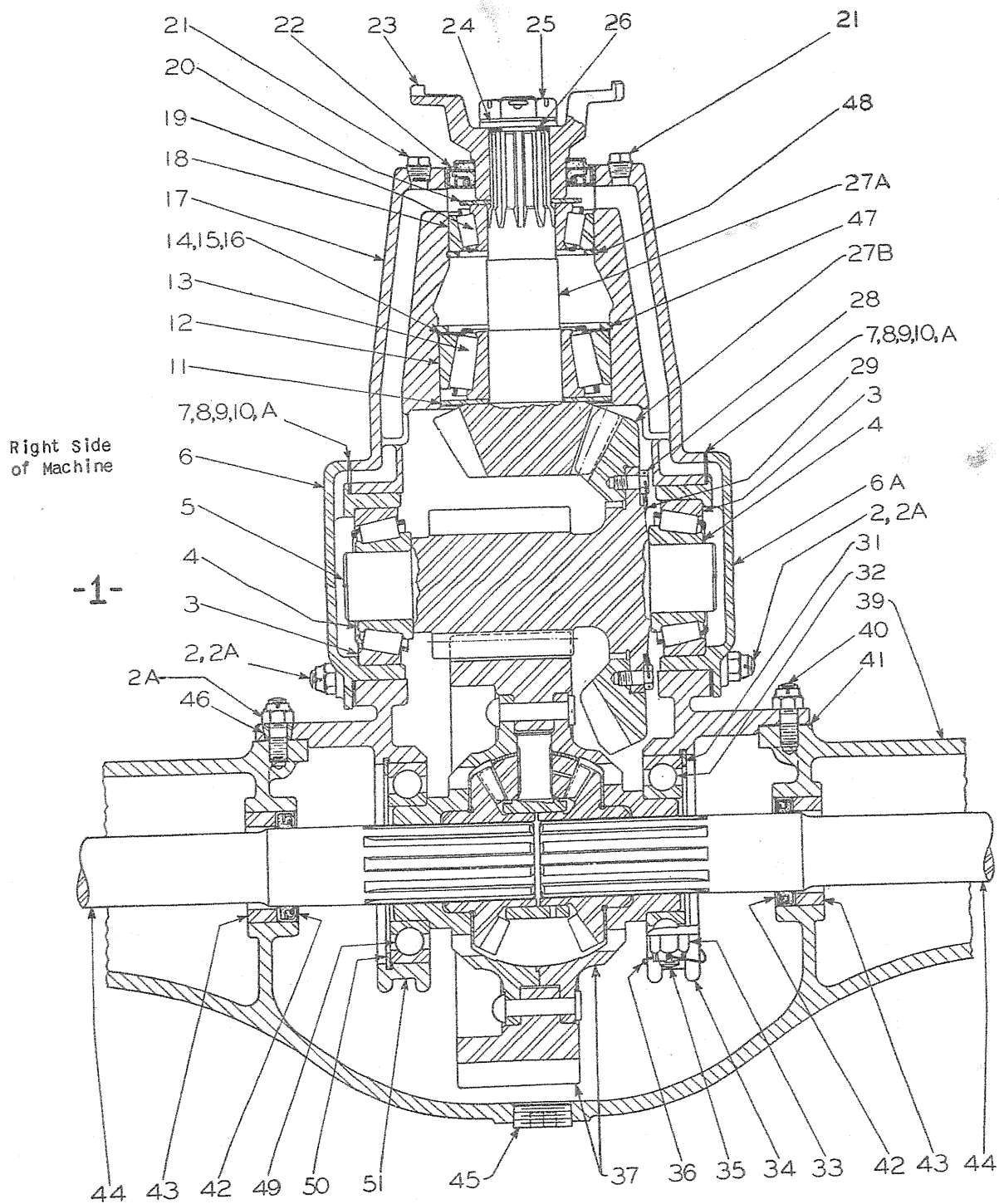
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REF. NO.	PART NO.	QUANTITY	DESCRIPTION
84	BRF-1546	4	Side door fastener
85	PGF-2371	4	Side door fastener clip
86	PGF-14776	1	Transfer case guard
87		1	High lift ram (see Fig. 27)
88	PGF-14479	1	High lift shaft and arm
89		1	High lift shaft bearing (upper and lower halves)
90	AJF-3100	2	High lift shaft front bearing stud
91	PGF-10234	2	* High lift shaft rear bearing stud
92	PGF-14576	1	* Cover plate - instrument panel (cab left side lower wrapper)
93	PGF-14563	1	Hood band - front
94	PGF-14504	1	Hood band - rear
	PGF-11612	1	* Cover - propeller shaft grease opening
	MSF-1775	1	* rear view mirror
	PGF-10369	1	* Mirror bracket
	PGF-10370	1	* Mirror bracket spacer

Curtains

PGF-10348	1	* Side curtain - right hand
PGF-10350	1	* Side curtain - left hand
PGF-10356	4	* Side curtain tie rope
PGX-1068	24	* "D" ring with clamp

Note: * Indicates parts not illustrated.



B/M PGU-2459

Figure 2. Front Axle Gear Carrier

1	PGU-2459	1	Front axle gear carrier group (includes Ref. Nos. 2 to 38 inclusive, also 47 to 51 incl.)
2	PGF-15052	12	Stud
2A	914005	26	Hex nut (hug-lock)
3	313098	2	Bearing cup
4	312245	2	Bearing cone and rollers
5	PGF-14588	1	Pinion and gear hub
6	PGF-15066	1	Bearing cap with cup (includes 1 of Ref. 3)
6A	PGF-15069	1	Bearing cap with cup (includes 1 of Ref. 3)
7	PGF-15378	4	Gasket (brass) (2 each side)
8	PGF-3080	As req'd	Shim - .005" thick
9	PGF-3081	As req'd	Shim - .010" thick
10	PGF-3082	As req'd	Shim - .030" thick
10A	PGF-4288	As req'd	Shim - .003" thick
11	PGF-8595	1	Oil retainer
12	313209	1	Bearing cup
13	312549	1	Bearing cone and rollers
14	PGF-11957	As req'd	Shim - .005" thick
15	PGF-11956	As req'd	Shim - .007" thick
16	PGF-11958	As req'd	Shim - .020" thick
17	PGPS-2334	1	Gear carrier casting (includes Ref. Nos. 2, 2A, 33, 34, 35 and 51)
18	313448	1	Bearing cup
19	312991	1	Bearing cone and rollers
20	PGF-4852	1	Spline shaft washer
21	810003	2	Pipe plug
22	PGF-5240	1	Oil seal
23	PGF-8537-58	1	Fitting yoke
24	PGF-4864	1	Washer
25	PGF-15388	1	Slotted nut
26	PGF-4865	2	Washer gasket
27A	PGF-14796	1	* Spiral bevel pinion
27B	PGF-14796	1	* Spiral bevel gear
28	PGF-13276	6	Bevel gear cap screw
29	PGF-9436	1	Lock wire
31	PGF-14589	1	Differential bearing washer
32	311619	1	Differential hub ball bearing
33	727009	4	Castellated nut
34		1	@ Bearing cap
35	PGF-13544	4	Stud
36	PGF-9486	2	Lock wire
37	PGF-14586	1	# Differential group
38	PGF-4184	1	Gear carrier vent plug - top (not illustrated)
39	PGF-2335	1	Front axle housing with studs and nuts (includes Ref. Nos. 2A and 40)
40	BTF-890	14	Stud
41	PGFB-14724	1	Gasket
42	194206	2	Oil seal
43	PGF-14722	2	Spacer
44	PGF-14521	2	Drive shaft or axle
45	812006	1	Drain plug - countersunk head
46	PGF-3084	1	Taper bushing
47	PGFA-11962	1	Snap ring
48	PGFA-11963	1	Snap ring
49	311618	1	Differential hub ball bearing
50	PGF-14590	1	Differential bearing washer
51		1	@ Bearing cap
	810005	1	Filler and oil level plug (not illustrated)

Note: * Bevel pinion and bevel gear sold in matched sets only
 @ Bearing caps not sold separately. Order Ref. 17, PGPS-2334, complete gear carrier casting.
 # Differential repair parts not sold separately. Order complete differential group.

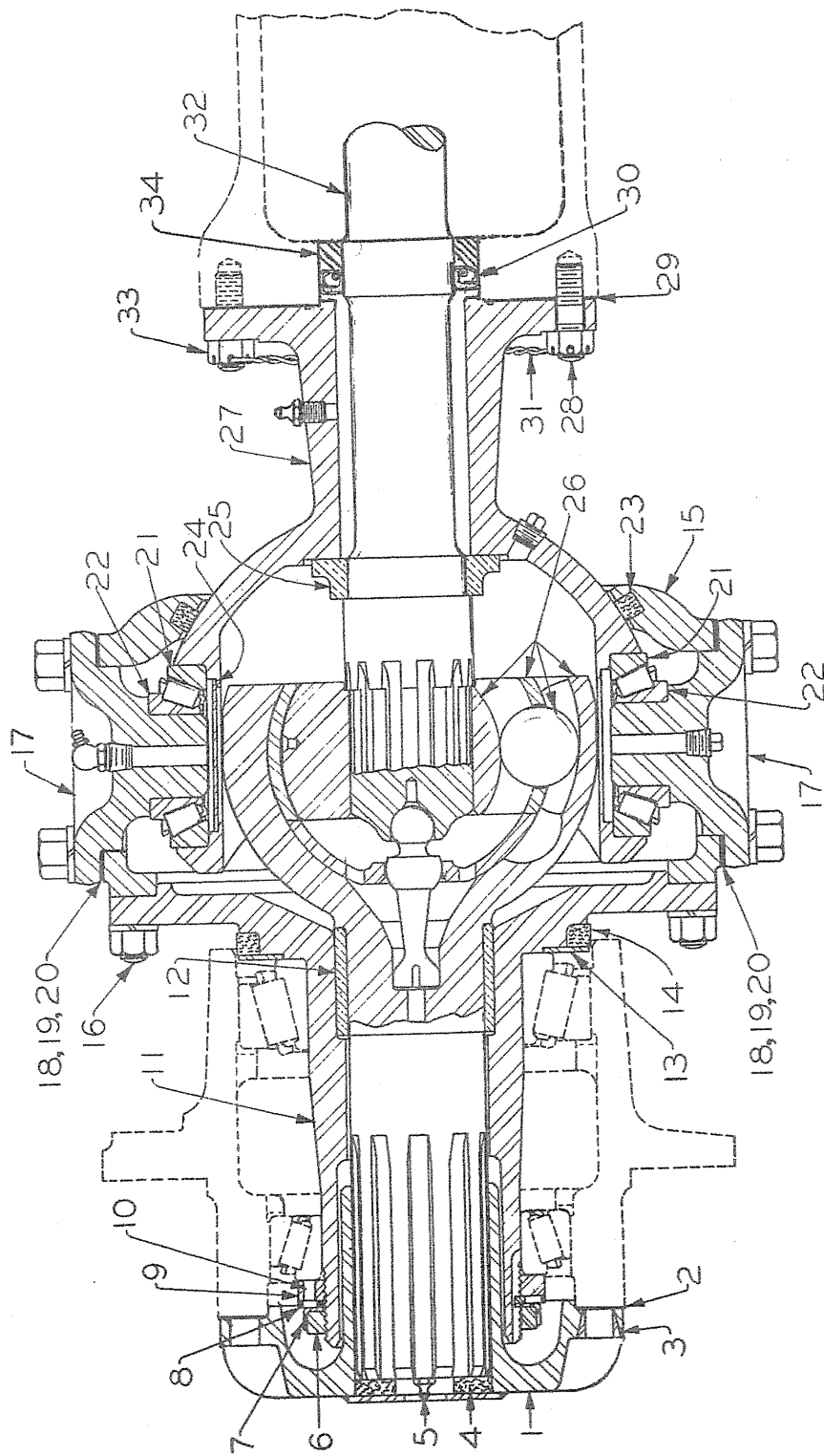


Figure 3. Front Axle Steering Knuckle and Universal Joint

B/M PGU-246

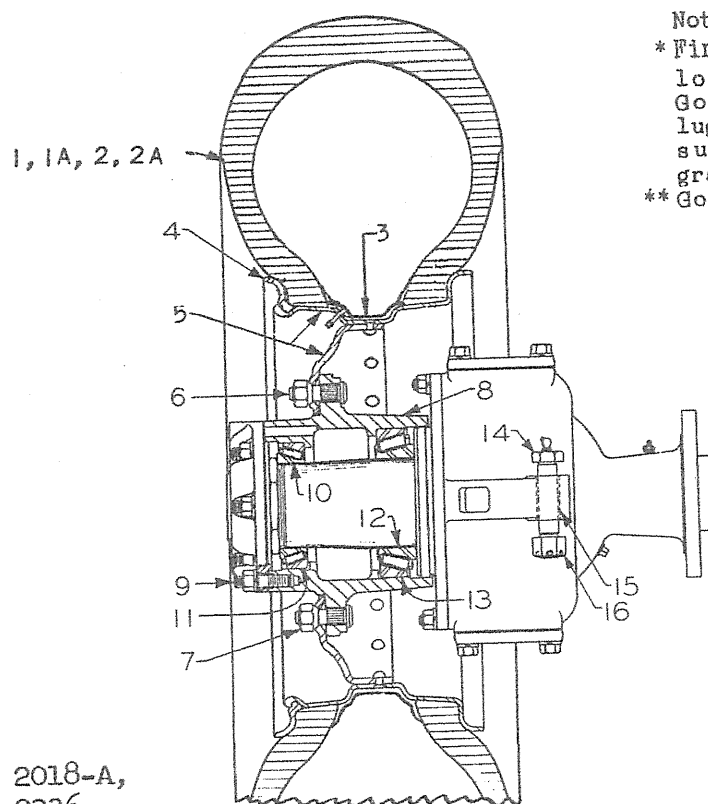
REF. NO.

PART NO.

QUANTITY

1	PGF-13549	1	Driving hub or flange
2	PGF-13555	1	Gasket
3	PGF-13541	4	Dowel bushing
4	PGF-7012	1	Felt
5	064456	1	Grease fitting
6	PGF-5436	1	Lock nut
7	PGF-5439	1	Lock washer
8	PGF-5438	1	Washer
9	PGU-5437	1	Adjusting nut with pin (includes Ref. No. 10)
10	PGF-3677	1	Adjusting nut pin
11	PGF-13540	1	Steering knuckle
12	PGF-5591	1	Steering knuckle bushing
13	PGF-4358	1	Washer
14	PGF-4360	1	Felt
15	PGF-2249	1	Knuckle flange with one PGF-8753 bushing
16	PGF-13556	8	Stud
17	PGF-14727	2	Steer bearing cap
18	PGF-4345	As req'd.	Shim - .005" thick
19	PGF-4346	As req'd.	Shim - .007" thick
20	PGF-4347	As req'd.	Shim - .020" thick
21	313380	2	Bearing cup
22	312836	2	Bearing cone and rollers
23	PGF-4362	1	Felt
24	PGF-4339-2	1	Grease retainer
25	PG-2123	1	Axle retainer
26	PGF-14726	1	* Drive joint group
27	PGF-14599	1	Trunnion socket
28	PGF-13556	9	Stud
29	PGF-12824	1	Gasket
30	194206	1	Oil seal
31	PGF-9486	3	Locking wire
32	PGF-14521	1	Drive shaft or axle
33	737008	9	Slotted nut
34	PGF-14730	1	Spacer

Note: * Drive joint repair parts not sold separately. Order complete drive joint group.



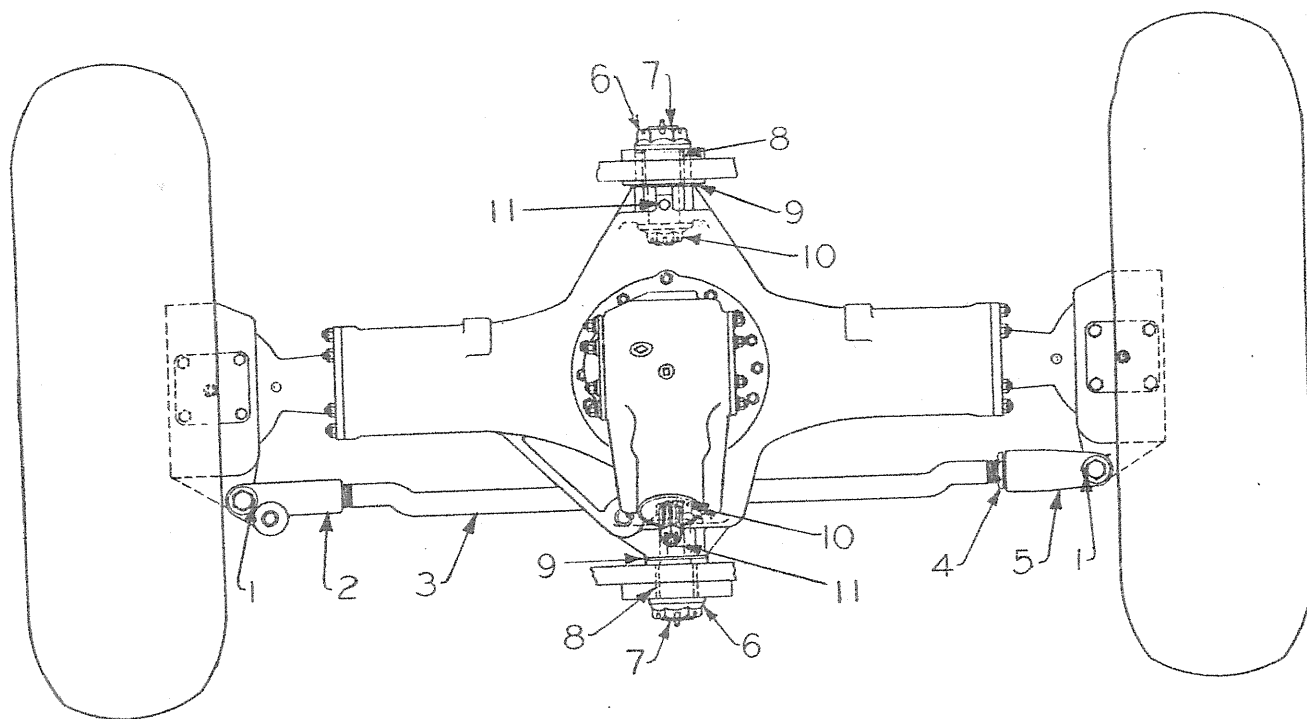
Note:
 * Firestone curved-bar, ground-grip, low-pressure road builder, or Goodrich tractor grader, T-15 lug type, or Goodyear road grader sure-grip, or U.S. Rubber road grader full traction.
 ** Goodyear road grader sure-grip.

B/M PGU-2002-A, 2018-A,
 PGU-2019-A, 2336

Figure 4. Front Axle Steering Knuckle, Wheel and Tire

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	* Tire - 14.00 x 20 - 14 ply (tapered bead seat)
1A		1	Tube - 14.00 x 20 with TR-220 air-water valve
2		1	** Tire - 16.00 x 20 - 14 ply (special order) (tapered bead seat)
2A		1	Tube - 16.00 x 20 with TR-220 air-water valve
3	PGF-10471	1	Tire flap
4	PGF-12992	1 Pr.	Locking ring (2 piece type) (Goodyear No. 1277-HR)
5	PGF-13695	1	Wheel with rim (less ring)
6	PGF-9391	10	Wheel stud
7	PGF-7357	10	Wheel stud nut
8	PGF-2247	1	Wheel hub with studs (includes Ref. No. 9)
9	PGF-13556	8	Stud
10	312814	1	Bearing cone and rollers
11	313366	1	Bearing cup
12	312888	1	Bearing cone and rollers
13	313407	1	Bearing cup
14	PGF-8757	1	Fork bolt
15	PGF-8753	1	Knuckle flange bushing
16	737010	1	Slotted nut
	PGF-5131	1	% Tire chain (special order) (for 14.00 x 20 tires) (must have 27 cross chains - every other side link)
	PGF-11809	1	% Tire chain (special order) (must have 28 cross chains - every other side link)

Note: % Indicates parts not illustrated. One each used on all four tires.



B/M PGU-1843-A

Figure 5. Front Axle Tie Rod and Axle Support

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-13270	2	Pin
2	PG-2210	1	Fork
3	PGF-8835	1	Tie rod
4	PGF-3955	1	Adjusting nut
5	PG-2211	1	Fork
6	PGA-1771	2	Nut
7	PGF-9087	2	Pivot pin
8	PGF-8738	2	Frame bushing
9	PGF-9263	2	Washer
10	PGA-1649	2	Nut
11	755135	2	Set screw - cup point

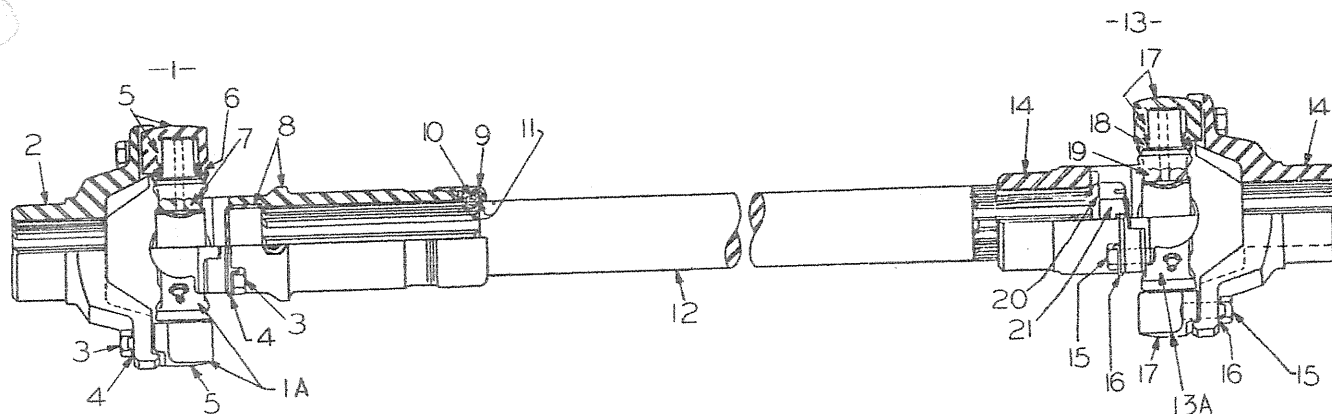
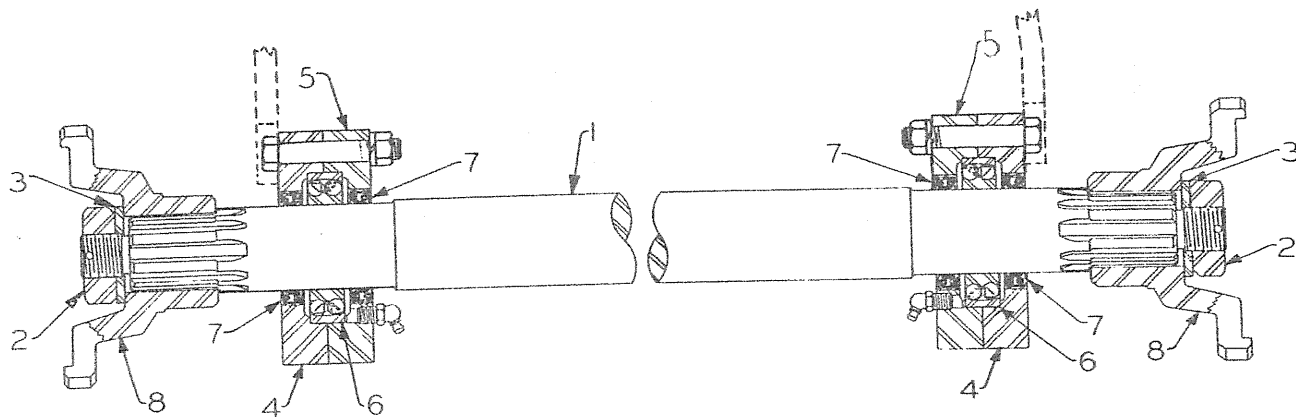


Figure 6. Front Section of Front Propeller Shaft

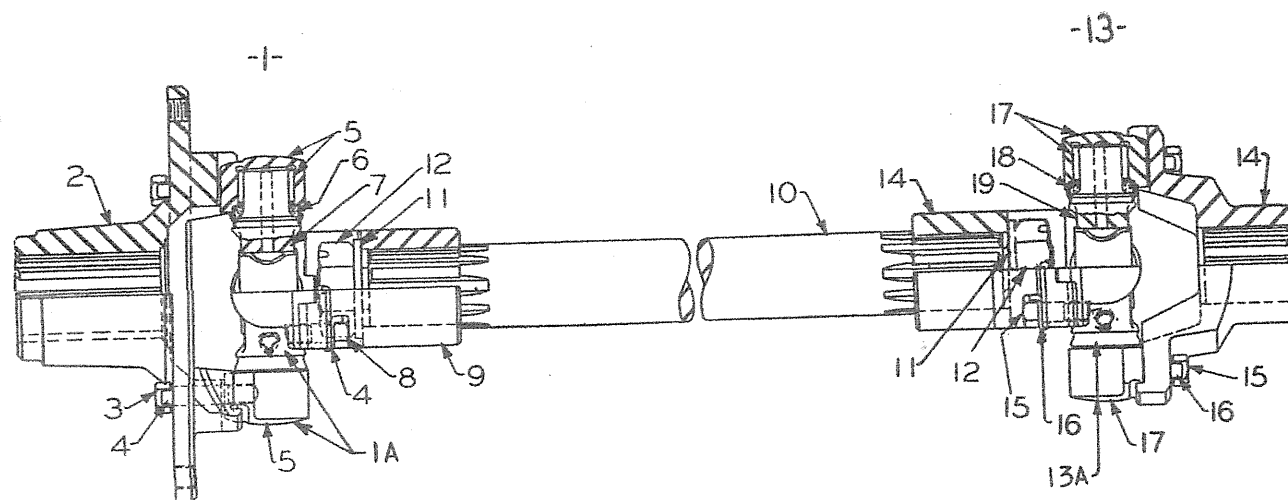
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-8607	1	Knuckle group (includes Ref. Nos. 2 to 11 inclusive)
1A	465132	1	Spider and bearing group (includes Ref. Nos. 5, 6 and 7 assembled)
2	PGF-8537-58	1	Fitting yoke
3	PGF-9717-55	8	Cap screw
4	PGF-9717-56	4	Cap screw lock plate
5		4	Bearing group (not sold separately. Order Ref. No. 1A)
6	465149	4	Cork trunnion washer
7		1	Spider group (not sold separately. Order Ref. No. 1A)
8	465128	1	Slip yoke with dust cup
9	465008	1	Felt retainer
10	465016	1	Felt washer
11	465015	2	Felt retainer washer
12	PGF-8864	1	Shaft
13	PGF-8588	1	Knuckle group (includes Ref. Nos. 14 to 19 inclusive)
13A	465132	1	Spider and bearing group (includes Ref. Nos. 17, 18 and 19 assembled)
14	PGF-8537-58	2	Fitting yoke
15	PGF-9717-55	8	Cap screw
16	PGF-9717-56	4	Cap screw lock plate
17		4	Bearing group (not sold separately. Order Ref. No. 13A)
18	465149	4	Cork trunnion washer
19		1	Spider group (not sold separately. Order Ref. No. 13A)
20	PGF-4864	1	Washer
21	PGF-15388	1	Slotted nut



B/M PGU-1673

Figure 7. Center Section of Front Propeller Shaft

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-8865	1	Shaft
2	PGF-15388	2	Slotted nut
3	PGF-4864	2	Washer
4	PGF-10140	2	Bearing housing - outer
5	PGF-10141	2	Bearing housing - inner
6	314060	2	Ball bearing
7	PGF-8861	4	Oil seal
8	PGF-8537-58	2	Fitting yoke

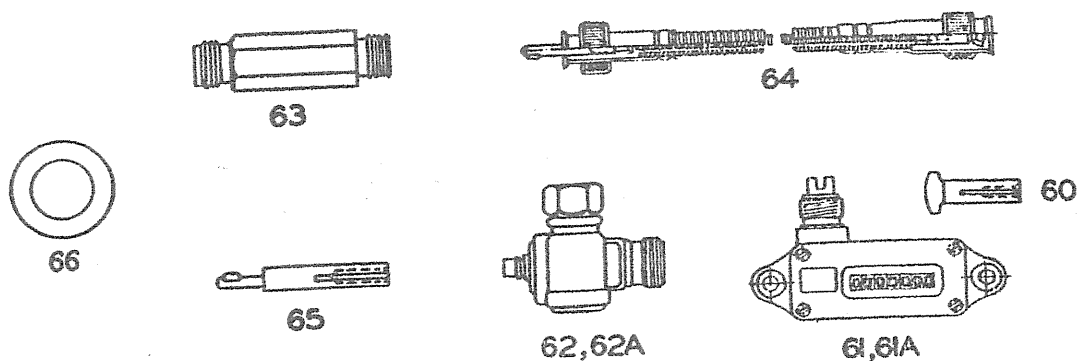


Transfer Case End

B/M PGU-1674

Figure 8. Rear Section of Front Propeller Shaft

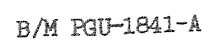
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-8807	1	Knuckle and brake flange group (includes Ref. Nos. 2 to 9 inclusive)
1A	465136	1	Spider and bearing group (includes Ref. Nos. 5, 6 and 7 assembled)
2	PGF-8807-55	1	Brake flange
3	PGF-8807-58	4	Brake flange cap screw
4	PGF-9717-56	4	Cap screw lock plate
5		4	Bearing group (not sold separately. Order Ref. No. 1A)
6	465149	4	Cork trunnion washer
7		1	Spider group (not sold separately. Order Ref. No. 1A)
8	PGF-9717-55	4	Cap screw
9	PGF-8537-58	1	Fitting yoke
10	PGF-9248	1	Shaft
11	PGF-4864	2	Washer
12	PGF-15388	2	Slotted nut
13	PGF-8588	1	Knuckle group (includes Ref. Nos. 14 to 19 inclusive)
13A	465132	1	Spider and bearing group (includes Ref. Nos. 17, 18 and 19 assembled)
14	PGF-8537-58	2	Fitting yoke
15	PGF-9717-55	8	Cap screw
16	PGF-9717-56	4	Cap screw lock plate
17		4	Bearing group (not sold separately. Order Ref. No. 13A)
18	465149	4	Cork trunnion washer
19		1	Spider group (not sold separately. Order Ref. No. 13A)



B/M PGU-1860

Figure 9. Odometer

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
60	PGF-3850	1	Drive tip
61	PGF-9361	1	Odometer - mile reading
61A	PGF-9831	1	Odometer - kilometer reading (special order)
62	PGF-9363	1	Right angle joint (.266 ratio - 14.00 x 20 tires)
62A	PGF-11944	1	Right Angle joint (.294 ratio - 16.00 x 20 tires)
63	PGF-9889	1	Extension sleeve
64	PGF-9364	1	Flexible shaft
65	PGF-9888	1	Shaft extension
66	NES-1652	1	Washer



484.18

1	PGF-8968	1	Brake group (includes Ref. Nos. 2 to 29 inclusive)
2	PGF-8968-55	1 PK.	2 shoes with linings and rivets (includes Ref. Nos. 3 and 4)
3	PGF-8968-56	1 PK.	2 linings with rivets (includes Ref. No. 4)
4	331007	50	Tubular rivet
5	331070	2	Connecting link
6	331040	1	Adjusting screw
7	331072	1	Adjusting screw pivot nut
8	331073	1	Adjusting screw socket
9	331030	1	Adjusting screw spring
10	331029	4	Spring pin
12	331021	8	Spring cup
13	331031	2	Shoe hold down spring
14	331026	2	Shoe hold down spring
15	331071	1	Anchor pin and shoe guide
16	331069	1	Anchor pin nut
17	331028	1	Anchor pin lock washer
18	331037	1	Anchor to shoe spring
19	331042	1	Anchor to shoe spring
20	PGF-10904	1	Shoe and lever pin
21	PGF-10905	1	Lever pin washer
22	331096	1	Lever pin lock washer
23	331103	1	Lever pin nut
24	331108	1	Cotter pin
25	331067	1	Lever
26	PGF-10903	1	Strut to lever spring
27	PGF-10901	1	Washer
28	331099	1	Cotter pin
29	PGF-10902	1	Strut spring
30	ASF-5057	1	Strut

Propeller Shaft Brake Cylinder

41	PGF-11504	1	Drum cylinder group (includes Ref. Nos. 41A to 41F inclusive)
41A	333133	1	Casting
41B	333014	2	Piston
41C	333015	2	Cup
41D	333016	1	Return spring
41E	333117	2	Boot
41F	333146	1	Cylinder bleeder screw
42	ASF-5451	1	Washer
43	PGF-9018	1	Hose

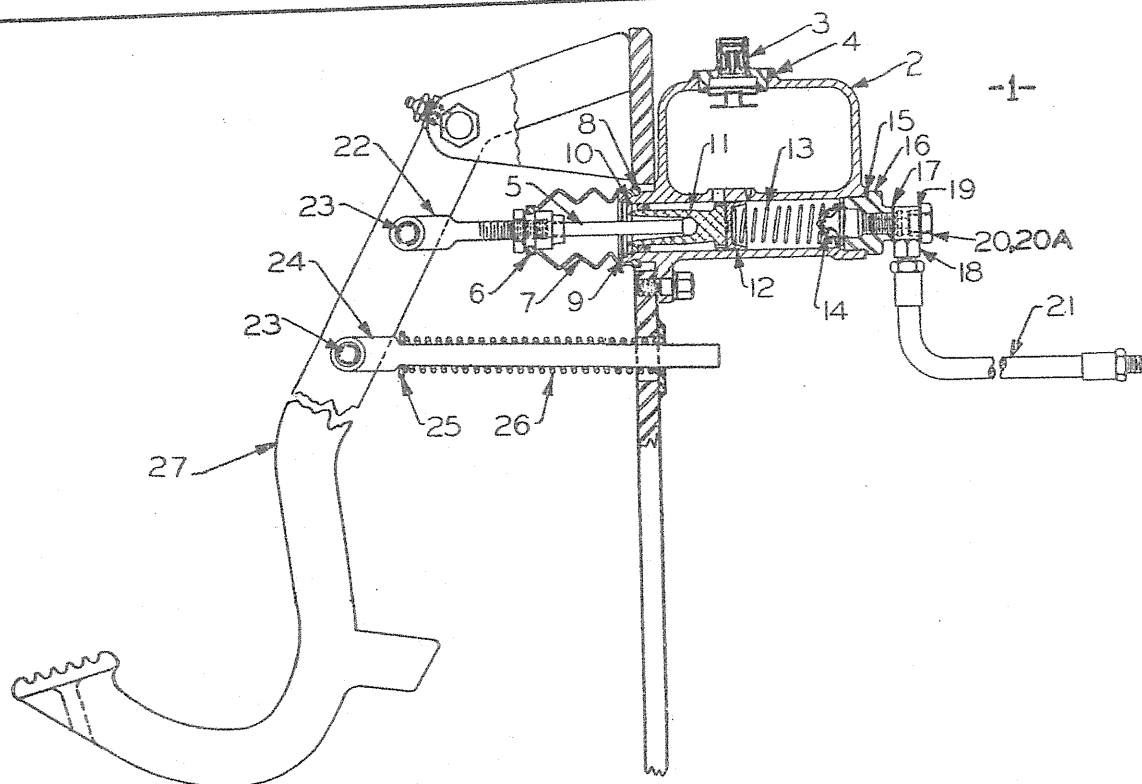


Figure 11. Foot Brake Mechanism

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9485	1	Master cylinder group (includes Ref. Nos. 2 to 16 inclusive)
2	333131	1	Supply tank
3	333151	1	Filler plug
4	333141	1	Filler plug gasket
5	333082	1	Piston link
6	333032	1	Boot strap - small
7	333084	1	Boot
8	333085	1	Boot strap - large
9	333107	1	Piston stop wire
10	333108	1	Piston stop washer
11	333106	1	Piston group
12	333072	1	Cup
13	333099	1	Return spring
14	333152	1	Check valve group - dome type
15	333107	1	Head gasket
16	333111	1	Head
17	PGF-10896	1	Gasket
18	PGF-14185	1	Outlet connection
19	PGF-12248	1	Gasket
20	PGF-14186	1	Fitting bolt
20A	PGF-12249	1	Fitting bolt (has 1/8" NPT) (special order for machines with stop and tail lights)
21	PGF-9018	1	Hose
22	PGF-9766	1	Yoke
23	783005	2	Pin
24	PGF-9767	1	Rod
25	765006	1	Washer
26	MSF-853	1	Spring
27	PG-1828	1	Pedal

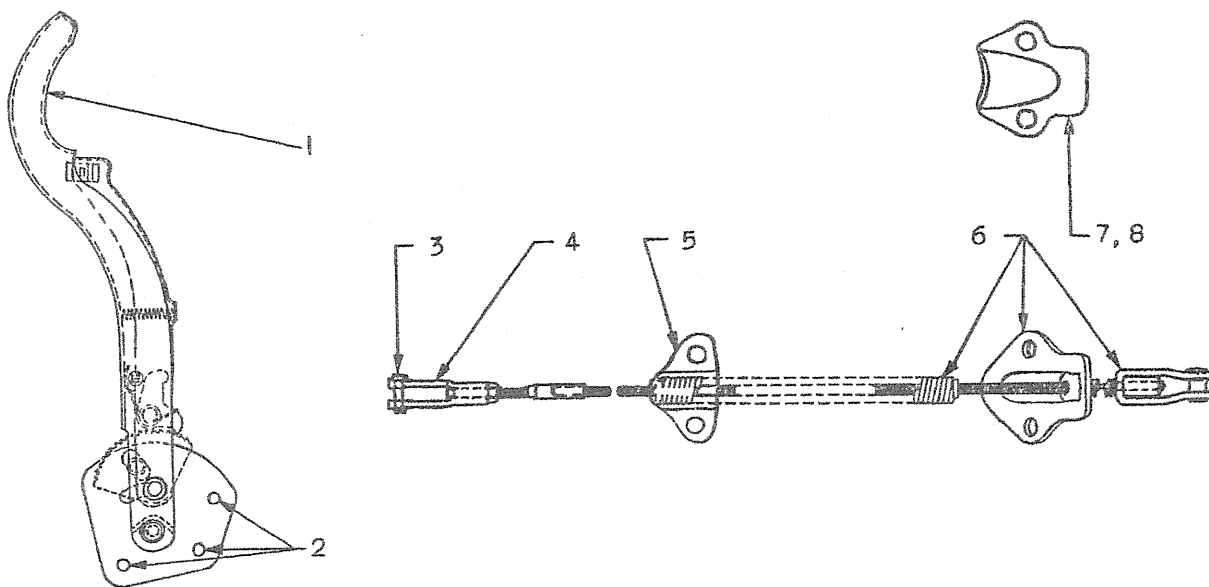
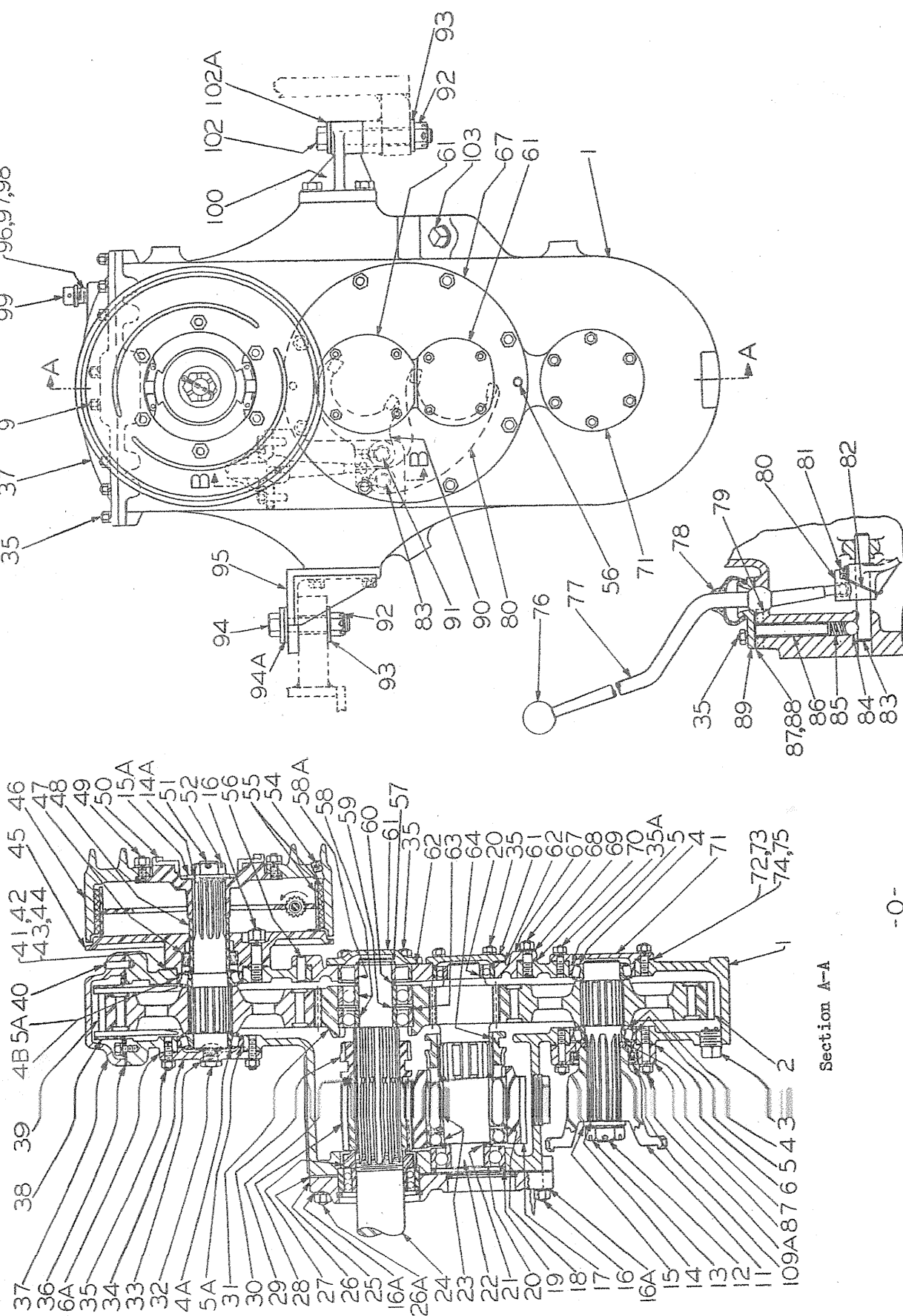


Figure 12. Hand Brake Mechanism

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-14797	1	Hand brake, complete
2	PGF-5982	3	Spacer
3	RGF-1332	1	Fork pin
4	PGF-6791	1	Rod end fork
5	PGF-8979	1	Conduit bracket
6	PGF-8971	1	Cable and conduit group
7	ASF-6009	1	Bracket cap
8	ASF-6008	1	Bracket seal



B/M PGU-2388

Figure 13. Transfer Case

Section B-B

-0-

Refer to Pages 23
24 for Part Numbers

0		1	Transfer case group
1	PGF-2319	1	Gear housing with bearing support and studs (includes Ref. Nos. 56, 67 and 68)
2	PGF-14773	1	Gear - 64 teeth
3	PGF-9014	1	Drain plug
4	319002	2	Bearing cone and rollers
4A	312514	1	Bearing cone and rollers
4B	312505	1	Bearing cone and rollers
5	313459	2	Bearing cup
5A	313190	2	Bearing cup
6	PGF-14457	1	Gasket
6A	PGF-13326	2	Gasket
7	PGF-10423	1	Spacer
8	PG-2318	1	Bearing cap
9	PGF-8431	4	Stud
9A	HCF-1339	6	Stud
10	ASF-5727	1	Oil seal
11	PGF-8537-58	1	Fitting yoke
12	PGF-14458	1	Driven shaft - lower
13	PGF-15388	1	Slotted nut
14	PGF-4865	2	Gasket
14A	PGF-8521	2	Gasket
15	PGF-4864	1	Washer
15A	PGF-8706	1	Washer
16	PGF-8498	13	Stud
16A	766013	8	External tooth washer
17	PGF-14712	1	Idler gear - 28 teeth
18	PGF-14709	1	Snap ring
19	PGF-14459	1	Spacer
20	311367	2	Ball bearing
21	PGF-14710	1	Spacer
22	PGF-14714	1	Countershaft - 19 teeth
23	311330	2	Ball bearing
24		1	Transmission main shaft { see
25		1	Transmission case { transmission
26		1	Transmission case gasket { page
26A	PGF-11645	2	Stud
27	PGF-11405	1	Bearing retainer nut
28	PGF-11339	1	Drive pinion - 15 teeth
29	PGF-13557	1	Snap ring
30	PGF-8426	1	Shifter clutch gear - 21 teeth
31	PGF-14711	1	Drive gear - 35 teeth
32	PGF-3849	1	Plug (not required when odometer is used)
33	PGF-4217	1	Gasket
34	PG-2292	1	Bearing cap
35	PGF-8433	26	Stud
35A	HCF-1341	6	Stud
36	PGF-10376	1	Cover gasket
37	PG-1859	1	Gear housing cover
38	PGF-10425	2	Oil collector
39	PGF-14771	1	Gear - 64 teeth
40	PGF-8815	2	Dowel pin
41	PGF-13533	As req'd	Shim - .005" thick
42	PGF-13532	As req'd	Shim - .007" thick
43	PGF-13531	As req'd	Shim - .020" thick
44	PGF-13534	2	Gasket
45	PG-1682	1	Backing plate
46	PG-2141	1	Brake drum

(continued)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
	PGF-8809	1	Oil seal
48	PGF-12593	1	Spacer
49	PGF-8855	6	Stud
50	PGF-8807-55	1	Brake flange
51	PGF-13149	1	Driven shaft - upper
52	PGF-8708	1	Slotted nut
54	812002	4	Pipe plug
55	PGF-8968	1	Propeller shaft brake group (see Fig. 10)
56	PGF-10589	2	Dowel pin
57	PGF-14707	1	Snap ring
58	311392	2	Ball bearing
58A	318508	1	Roller bearing
59	PGF-14705	1	Spacer
60	PGF-14706	1	Spacer
61	PG-2291	2	Bearing cap
62	PGF-14704	2	Gasket
63	PGF-14708	1	Snap ring
64	PGF-10101	1	Shifter clutch gear - 24 teeth
67	PG-2320	1	Bearing support
68	BRF-2061	8	Stud
69	766011	8	External tooth washer
70	PGF-10375	1	Gasket
71	PG-2294	1	Bearing cap
72	PGF-14715	As req'd	Shim - .005" thick
73	PGF-14716	As req'd	Shim - .007" thick
74	PGF-14717	As req'd	Shim - .020" thick
75	PGF-14718	2	Gasket
76	PGF-7721	1	Shift lever ball
77	PGF-10853	1	Shift lever
78	PGF-9157	1	Dust cover
79	PGF-11428	1	Shift lever pin
80	PG-1922	1	Shift fork - low range
81	PGF-11675	2	Lock screw
82	PGF-11756	2	Locking wire
83	PGF-10722	1	Shift rod - low range
84	PGF-8638	2	Ball
85	PGF-309	2	Spring
86	PGF-10849	2	Spring spacer
87	PGF-10843	6	Shim
88	PGF-10871	2	Gasket
89	PG-1949	1	Shift lever socket
90	PG-1923	1	Shift fork - high range
91	PGF-10719	1	Shift rod - high range
92	734009	2	Slotted nut
93	762009	2	Washer
94	PGF-8858	1	Cap screw - right hand support
94A	PGF-8867	2	Washer - right hand support
95	PGF-14474	1	Support - right hand
96	PGU-1741-A	1	Breather group (includes Ref. Nos. 97, 98 and 99)
97	PGF-9974	1	Tube with pin
98	PGF-10037	1	Element
99	PGF-5166	1	Cap
100	PG-2327	1	Support - left hand
102	PGF-15085	1	Cap screw - left hand support
102A	PGF-8867	1	Washer - left hand support
103	810005	1	Oil level and filler plug

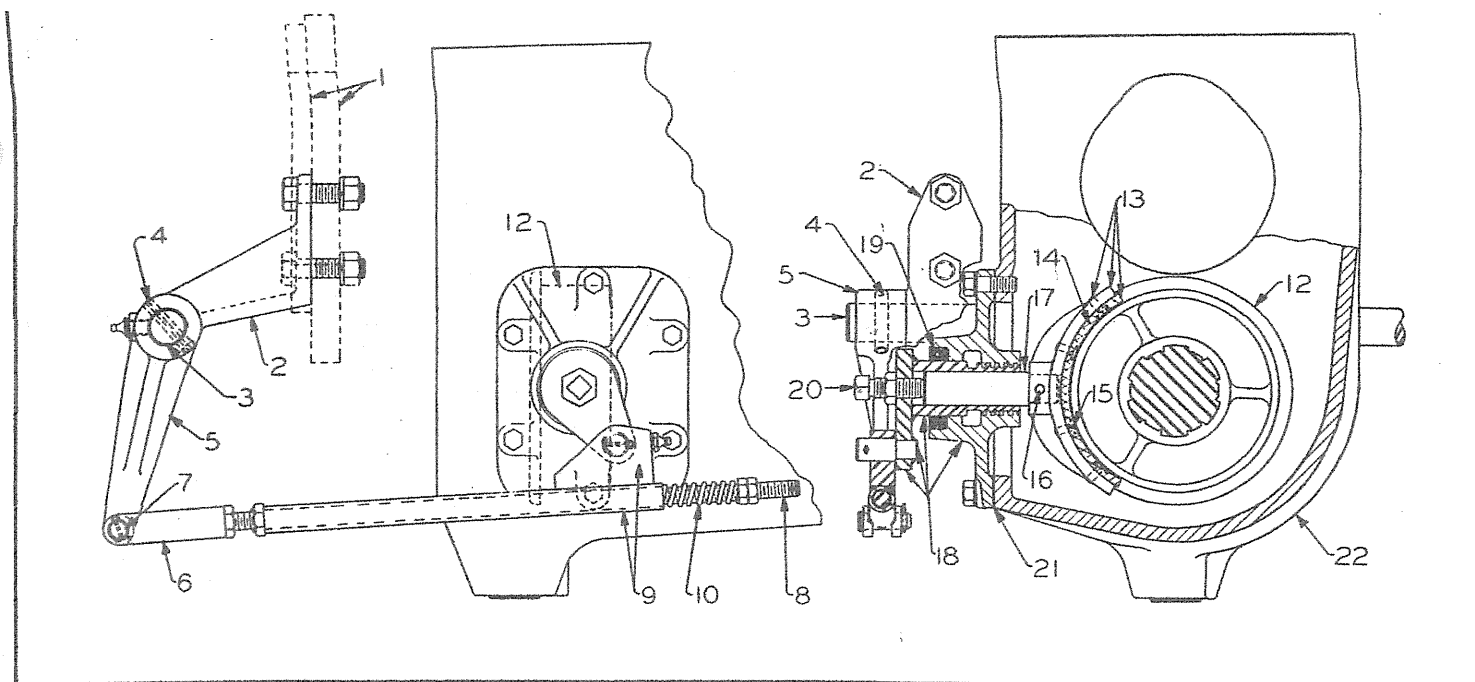
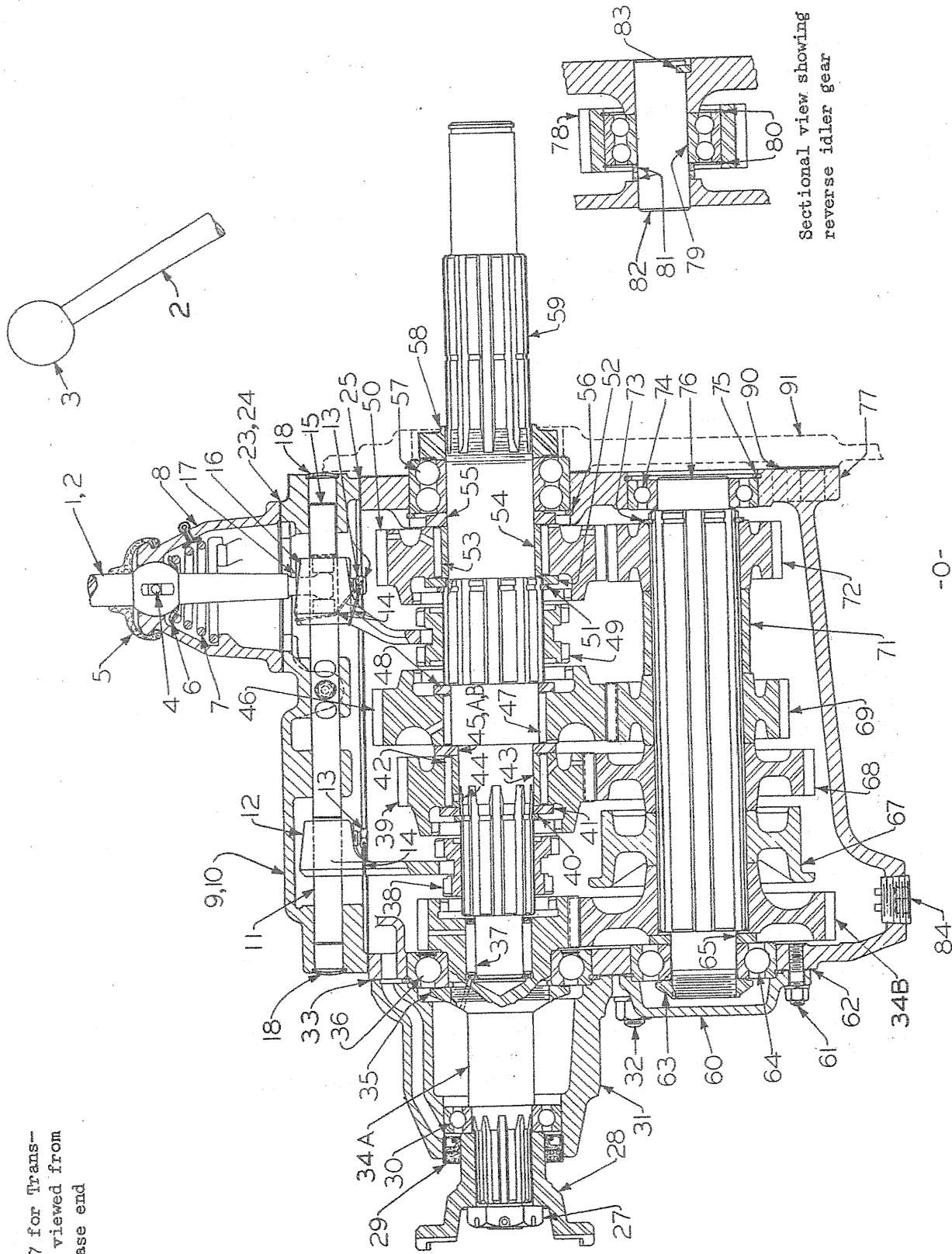


Figure 14. Clutch Brake

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-14488	1	Transmission support
2	PG-1769	1	Cross rod hanger
3	PGF-9260	1	Cross rod
4	PGF-9264	1	Pin
5	PG-1768	1	Lever
6	782005	1	Rod end fork
7	783005	1	Pin
8	PGF-8895	1	Pull rod
9	PGF-8970	1	Tube
10	PGF-7610	1	Spring
12	PG-1732	1	Brake drum
13	PGX-1414	1	Shoe with lining and rivets (includes Ref. Nos. 14 and 15)
14	PGF-7590	1	Lining
15	713128	6	Tubular rivet
16	BDF-345	1	Pin
17	PGF-8828	1	Shaft
18	PGF-8972	1	Screw with PG-1688 bracket
19	PGF-8857	1	Oil seal
20	755095	1	Set screw - cup point
21	PGF-9864	1	Gasket
22		1	Transmission (see Figs. 15A and 15B)

See Page 27 for Trans-
mission as viewed from
Transfer Case end



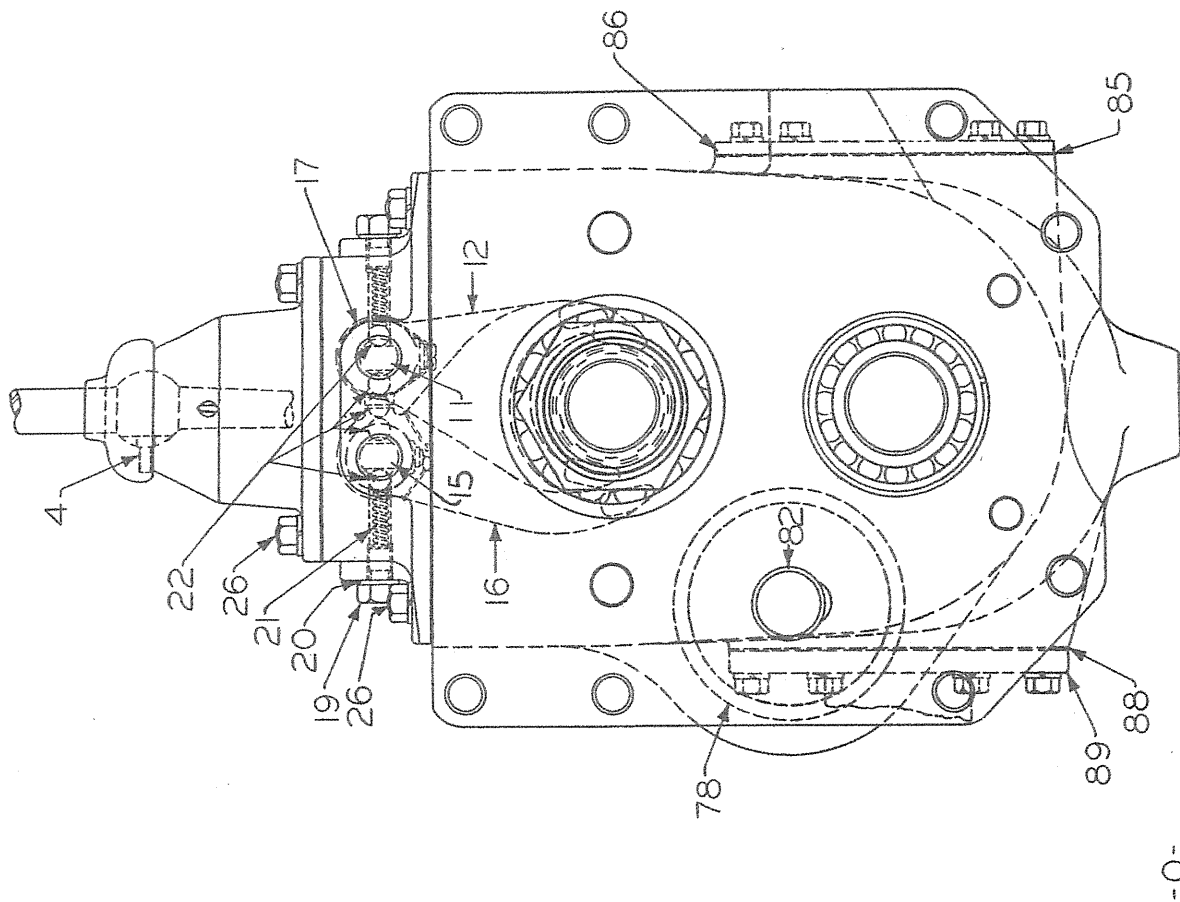
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Refer to Pages 28 and
29 for Part Numbers

Figure 15A. Transmission

B/M PGU-8125-A
PGU-8312

See page 26 for cross
section side view of
Transmission



-0-

Refer to Pages 28 and
29 for Part Numbers

B/M PGU-8125-A
PGU-8312

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-8125-A	1	Transmission, complete (includes Ref. Nos. 9 to 89 inclusive)
1	PGU-8312	1	Gear shift lever group (includes Ref. Nos. 2 to 8 inclusive)
2	PGF-13871	1	Gear shift lever
3	PGF-7721	1	Gear shift lever ball
4	PGF-9130	1	Shift lever lock pin
5	PGF-9157	1	Shift tower dust cover
6	PGF-9122	1	Shift lever spring seat
7	PGF-9123	1	Shift lever spring
8	PG-1738	1	Shift tower
9	PGU-1738-A	1	Transmission case cover group (includes Ref. Nos. 10 to 22 inclusive)
10	PG-1868	1	Cover
11	PGF-10189	1	2nd & 3rd shift rod
12	PGPA-9127	1	2nd & 3rd shift fork with lock screw (includes one of Ref. No. 13)
13	PGF-9160	3	Shift fork locking screw
14	PGF-9738	3	Shift fork locking screw wire
15	PGF-10188	1	1st and reverse shift rod
16	PGPA-9126	1	1st and reverse shift fork with lock screw (includes one of Ref. No. 13)
17	PGF-9159	1	2nd and 3rd shift lug
18	164032	3	Expansion plug
19	PGF-9132	2	Shift rod lock cap screw
20	PGF-5717	2	Shift rod lock cap screw washer
21	PGF-9131	2	Shift rod lock spring
22	021003	5	Shift rod lock spring ball
23	PGF-9102	1	Shift tower gasket
24	PGF-10059	1	Oil guard
25	PGF-9112	1	Transmission cover gasket
26	PGF-8433	12	Stud
27	PGF-9133	1	Slotted nut
28	PGF-9079-56	1	Fitting yoke
29	PGF-3216	1	Oil seal
30	311167	1	Ball bearing
31	PG-1739	1	Bearing support housing
32	PGF-9091	6	Stud - housing to case
33	PGF-9125	1	Gasket
34A	PGF-11816	1	* Drive pinion - 24 teeth
34B	PGF-11816	1	* CS driven gear - 42 teeth
35	PGF-9082	1	Drive pinion bearing retainer nut
36	311596	1	Drive pinion bearing
37	318446	1	MS roller bearing
38	PGF-9068	1	MS 2nd and 3rd speed shifter clutch gear - 14 and 16 teeth
39	PGF-9070	1	MS 2nd speed gear - 30 teeth
40	PGF-9120	1	2nd speed gear snap ring
41	PGF-9063	1	2nd speed gear splined thrust washer
42	PGF-9084	42	2nd speed gear roller
43	PGF-9069	1	2nd speed gear bearing sleeve
44	PGF-9116	1	Bearing sleeve dowel pin

Note: * Drive pinion and CS driven gear sold in matched sets only.

(continued)

45	PGF-14436	1	2nd speed gear shim
45A	PGF-14437	1	2nd speed gear shim
45B	PGF-9115	1	2nd speed gear thrust washer
46	PGF-9072	1	MS 1st speed gear - 38 teeth
47	PGF-9084	42	MS 1st speed gear roller
48	PGF-9114	1	1st speed gear thrust washer
49	PGF-9074	1	MS 1st speed and reverse shifter clutch gear - 20 teeth
50	PGF-9076	1	MS reverse gear - 36 teeth
51	PGF-9119	1	MS reverse gear snap ring
52	PGF-9062	1	MS reverse gear splined thrust washer
53	PGF-9084	48	MS reverse gear roller
54	PGF-9075	1	MS reverse gear bearing sleeve
55	PGF-9134	1	MS bearing thrust washer
56	PGF-9158	1	MS bearing snap ring
57	311429	1	MS ball bearing
58	PGF-11405	1	MS bearing retainer nut
59	PGF-13558	1	Main shaft
60	PG-1736	1	CS bearing cap
61	BRF-1894	4	Stud - bearing cap to case
62	PGF-9110	1	CS bearing cap gasket
63	PGF-9083	1	CS bearing adjusting nut
64	311368	1	CS ball bearing with snap ring
65	PGF-9118	1	CS driven gear thrust washer
67	PG-1732	1	Clutch brake drum
68	PGF-9071	1	CS 2nd speed gear - 36 teeth
69	PGF-9073	1	CS 1st speed gear - 28 teeth
71	PGF-14187	1	Gear spacer
72	PGF-9078	1	CS reverse gear - 27 teeth
73	PGF-9117	1	CS reverse gear snap ring
74	311322	1	CS ball bearing
75	ASF-3268	1	CS ball bearing snap ring
76	PGF-9064	1	Countershaft
77	PG-1731	1	Transmission case
78	PGF-9077	1	Reverse idler gear - 25 teeth
79	311447	1	Reverse idler gear bearing
80	PGF-9121	2	Reverse idler gear bearing snap ring
81	PGF-9107	2	Reverse idler gear bearing spacer
82	PGF-9109	1	Reverse idler shaft
83	111010	1	Reverse idler shaft key
84	PGF-10846	1	Drain plug
85	PGF-9103	1	PTO cover plate gasket
86	PGF-9106	1	PTO cover plate
88	PGF-9864	1	Clutch brake bracket gasket
89	PGF-8972	1	Clutch brake screw and bracket
90	PGF-8479	1	Transmission case gasket
91		1	Transfer case

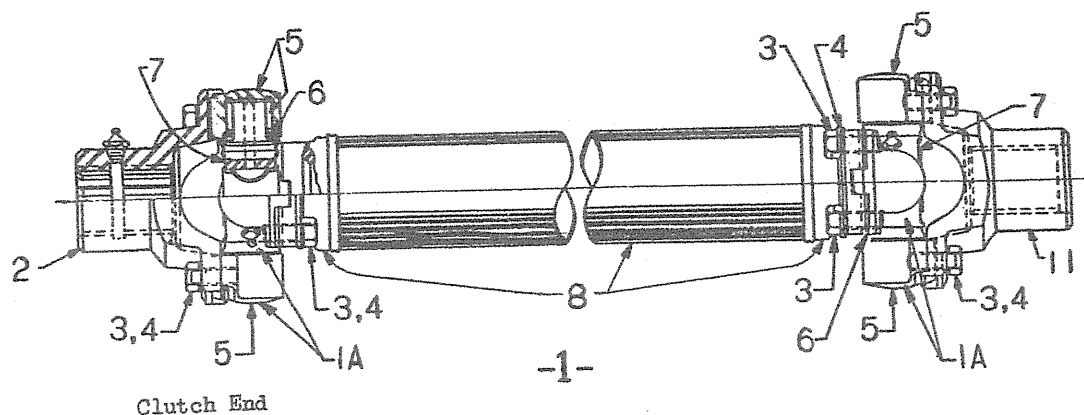


Figure 16. Propeller Shaft - Clutch to Transmission
(for GM-4080, GM-4055C or UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-14501	1	* Propeller shaft, complete
1	PGF-14533	1	@ Propeller shaft, complete
1	PGF-14535	1	% Propeller shaft, complete
1A	465076	2	Spider and bearing group (includes Ref. Nos. 5, 6 and 7 assembled)
2	465143	1	Fitting yoke
3	TF-1592-59	16	Cap screw
4	TF-1592-58	8	Cap screw lock plate
5		8	Bearing group (not sold separately. Order Ref. No. 1A)
6	465145	8	Cork trunnion washer
7		2	Spider group (not sold separately. Order Ref. No. 1A)
8	465239	1	* Propeller tube and yoke group
8	465240	1	@ Propeller tube and yoke group
8	465238	1	% Propeller tube and yoke group
11	PGF-9079-56	1	Fitting yoke

Note: * Used with GM-4080 engine.
 @ Used with GM-4055-C engine.
 % For UD-14A engine.

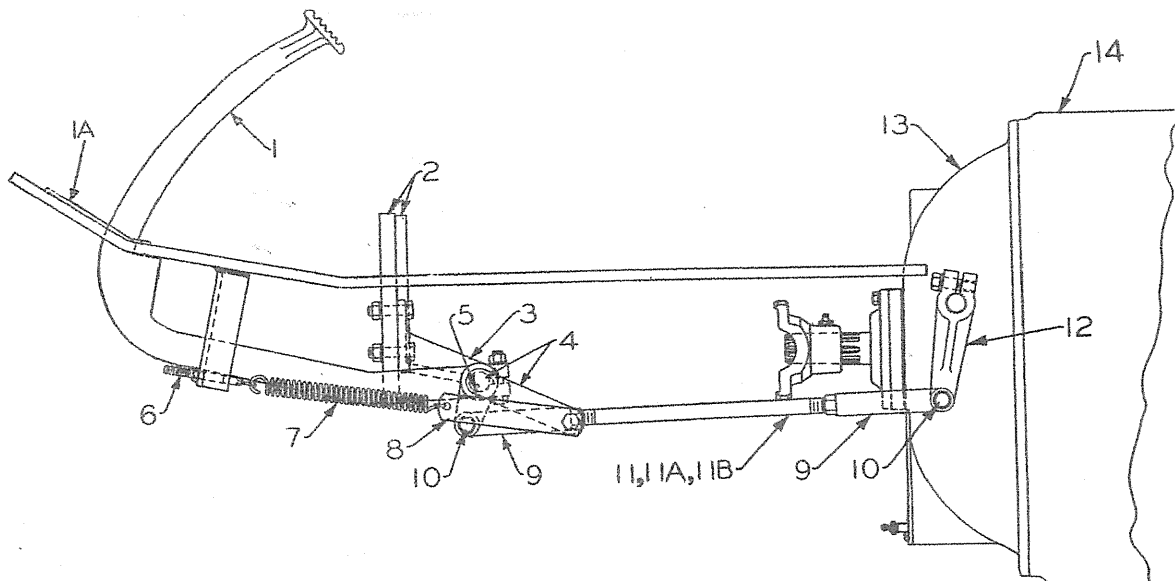
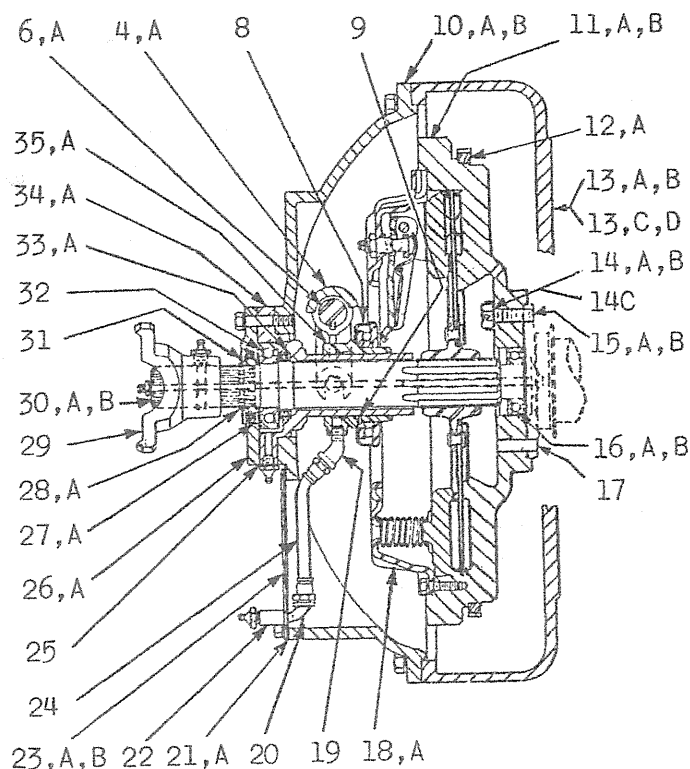
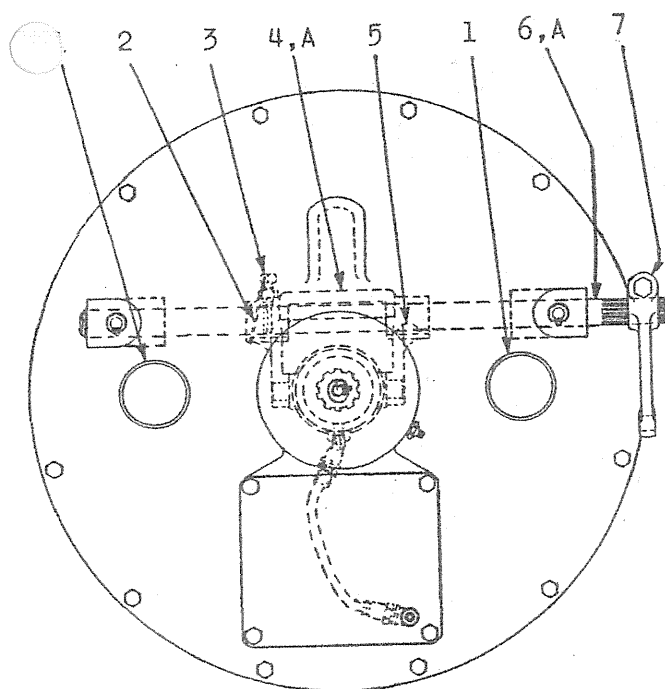


Figure 17. Clutch Operating Mechanism
(for GM-4080, GM-4055C or UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PG-1763	1	Pedal
1A	PGF-14732	1	Cover-clutch pedal opening
2	PGF-14488	1	Transmission support
3	PG-1769	1	Cross rod hanger
4	PGF-9260	1	Cross rod
5	111012	1	Woodruff key
6	PGF-7737	1	Spring eyebolt
7	MGF-2703	1	Spring
8	PGF-8977	1	Link
9	782010	2	Rod end fork
10	783007	2	Pin
11	PGF-14373	1	* Rod
11A	PGF-14787	1	% Rod
11B	PGF-15088	1	@ Rod
12		1	Clutch release lever
13		1	Clutch bell housing
14		1	Flywheel housing

Note: * Used with GM-4080 engine.
 % Used with GM-4055-C engine.
 @ Used with UD-14A engine.



B/M PGU-1832-A
PGU-2369, 2454

Figure 18. Clutch and Shaft Assembly
(Dry Clutch or Torque Converter Drive)
(For GM-4080, GM-4055C or UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	BTF-872	2	* Breather
2	PGF-9738	1	Lock wire
3	PGF-9269	1	Clutch yoke lock screw
4	PG-2015	1	% Clutch throwout yoke
4A	PG-1667	1	* Clutch throwout yoke
5	111010	1	Yoke key
6	HCF-2823	1	% Clutch yoke shaft
6A	PGF-8760	1	* Clutch yoke shaft
7	PGF-8978	1	Lever
8	PGF-11576	1	Clutch throwout bearing
9	PGF-11577	1	Clutch throwout bearing pin
10	PG-2277	1	% Clutch bell housing
10A	PG-1956	1	*@ Clutch bell housing (uses 3/8" bolts) (no longer furnished. Order Ref. No. 10B)
10B	PG-2359	1	*@ Clutch bell housing (uses 7/16" bolts)
11	040013	1	% Torque converter flywheel
11A	040002	1	* Engine flywheel with 040011 ring gear (for GM-4055C engine)
11B	IHC-252459R13	1	* Engine flywheel with 28173-DC ring gear (for UD-14A engine)
12	040011	1	* Engine flywheel ring gear (for GM-4055C engine)
12A	IHC-28173-DC	1	* Engine flywheel ring gear (for UD-14A engine)
13	040007	1	% Torque converter flywheel housing - SAE No. 2

13A	040009	1	*% Engine flywheel housing - SAE No. 1 (uses 3/8" bolts)(for GM-4055C engine) (no longer furnished. Order Ref. No. 13B)
13B	040045	1	*% Engine flywheel housing - SAE No. 1 (uses 7/16" bolts)(for GM-4055C engine)
13C	IHC-252474R21	1	*# Engine flywheel housing - SAE No. 1 (uses 3/8" bolts)(for UD-14A engine) (no longer furnished. Order Ref. No. 13D)
13D	IHC-252474R31	1	*# Engine flywheel housing - SAE No. 1 (uses 7/16" bolts)(for UD-14A engine)
14	040042	1	% Retainer (for Ref. No. 15)
14A	040041	1	* Retainer (for Ref. No. 16A)
14B	IHC-24943-DA	3	* Lock plate (for Ref. No. 15B)
14C	040046	3	* Lock wire (for Ref. No. 15A)
15	040044	6	% Torque converter flywheel bolt
15A	040043	6	* Engine flywheel bolt (for GM-4055C engine)
15B	IHC-32333-D	6	* Engine flywheel bolt (for UD-14A engine)
16	311158	1	% Pilot bearing
16A	311479	1	* Pilot bearing (for GM-4055C engine)
16B	311243	1	* Pilot bearing (for UD-14A engine)
17	IHC-32332-D	2	* Dowel pin (for Ref. No. 11B)
18	PGF-14503	1	Clutch - 15" (see Fig. 20)
18A	PGFA-10910	1	Clutch - 16" (see Fig. 19)
19	563001	1	Street ell
20	564001	1	* Street ell
21	HCF-1968	1	% Gasket
21A	PGF-8763	1	* Gasket
22	525001	1	Coupling
23	HCF-1969	1	% Inspection plate
23A	PGF-10915	1	* Inspection plate (machines below 99-584 with GM-4055C engine only)
23B	PGF-8762	1	* Inspection plate (machines 99-584 and up with GM-4055C engine only - standard for UD-14A engine)
24	PGF-4477	1	Grease hose
25	PGF-8766	1	Gasket
26	PG-2016	1	% Bearing cap
26A	PG-1670	1	* Bearing cap
27	PGF-11192	1	% Oil seal
27A	PGF-8839	1	* Oil seal
28	PGF-10452	1	% Snap ring
28A	PGF-8862	1	* Snap ring
29	465143	1	Fitting yoke
30	HCF-1923	1	% Clutch shaft
30A	PGF-14418	1	* Clutch shaft (for GM-4055C engine)
30B	PGF-9629	1	* Clutch shaft (for UD-14A engine)
31	PGF-11178	1	% Spacer
32	311167	1	Ball bearing
33	194262	1	% Oil seal
33A	PGF-8840	1	* Oil seal
34	PG-2017	1	% Bearing carrier sleeve
34A	PG-1686	1	* Bearing carrier sleeve
35	PG-2095	1	% Bearing carrier
35A	PG-2047	1	* Bearing carrier

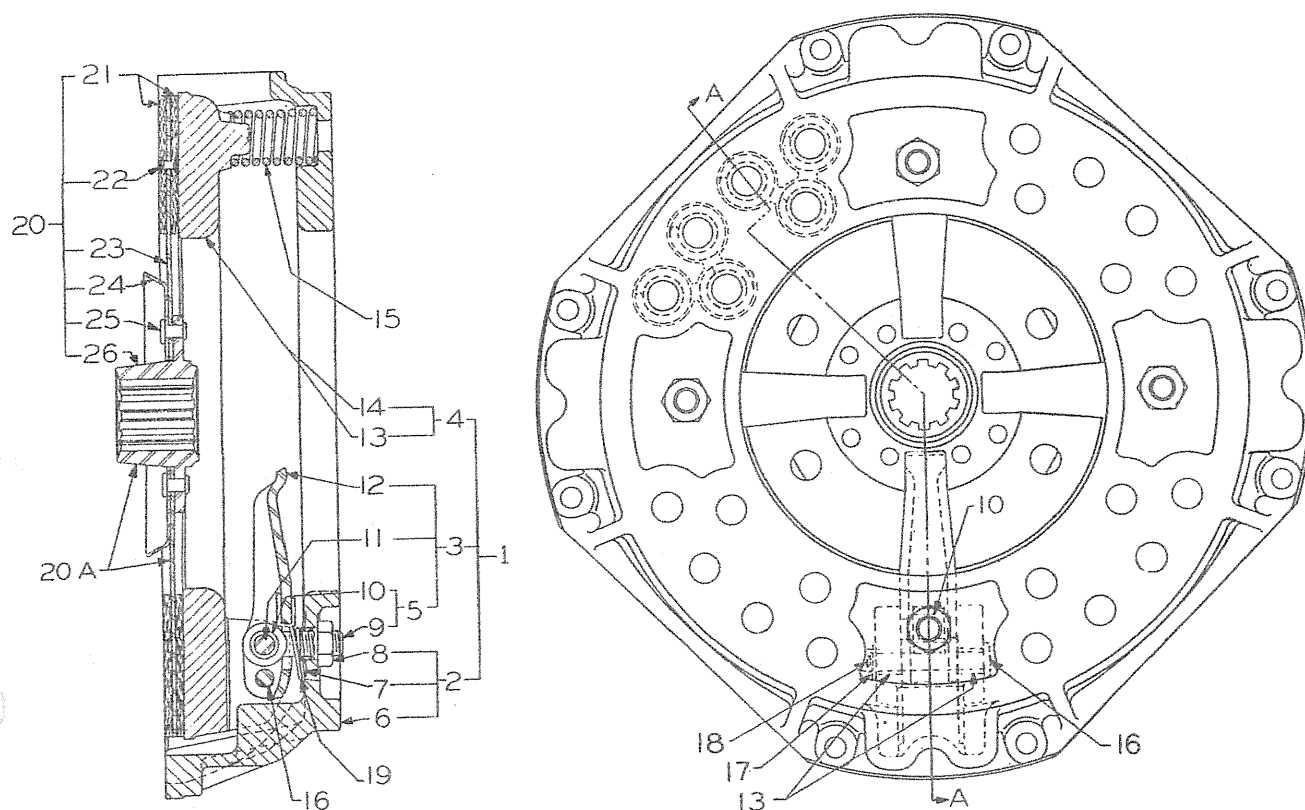
Note: * For machines with dry clutch drive.

% For machines with torque converter drive.

@ PG-1956 housing will interchange with PG-2359 housing if twelve (12)
27/64" diameter flange holes are redrilled to 15/32" diameter.

& 040009 housing will interchange with 040045 housing if twelve (12)
3/8" tapped holes are retapped to 7/16"-14 NC threads.

IHC-252474R21 housing will interchange with IHC-252474R31 housing
if twelve (12) 3/8" tapped holes are retapped to 7/16"-14 NC threads.



Section A-A

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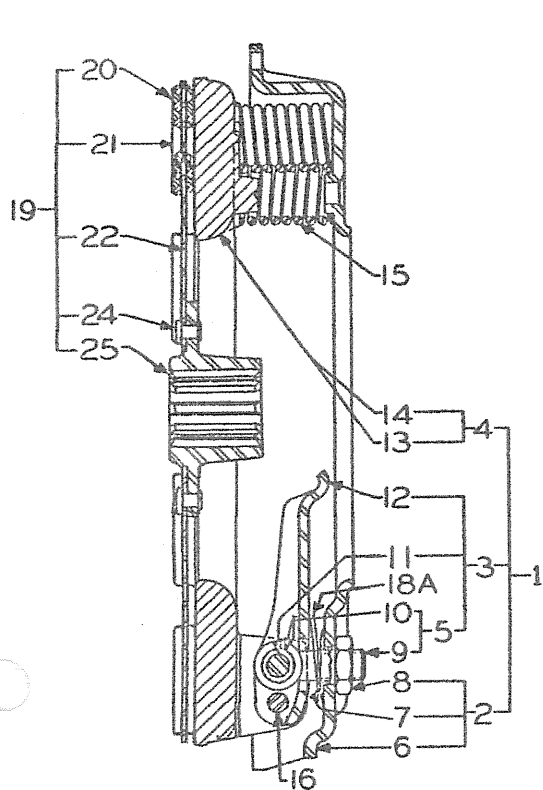
IMPORTANT NOTICE: Do not "over grease" clutch pilot bearing so that grease gets onto facings, Ref. 21. More clutch slippage and damage, or replacement, is caused by grease getting on the facings than by any other single cause. Warped and cracked pressure plates, also damaged facings are the result, and the warranty of same will be seriously affected.

Figure 19. Clutch for GM-4055C Engine
(Machines below 99-584)

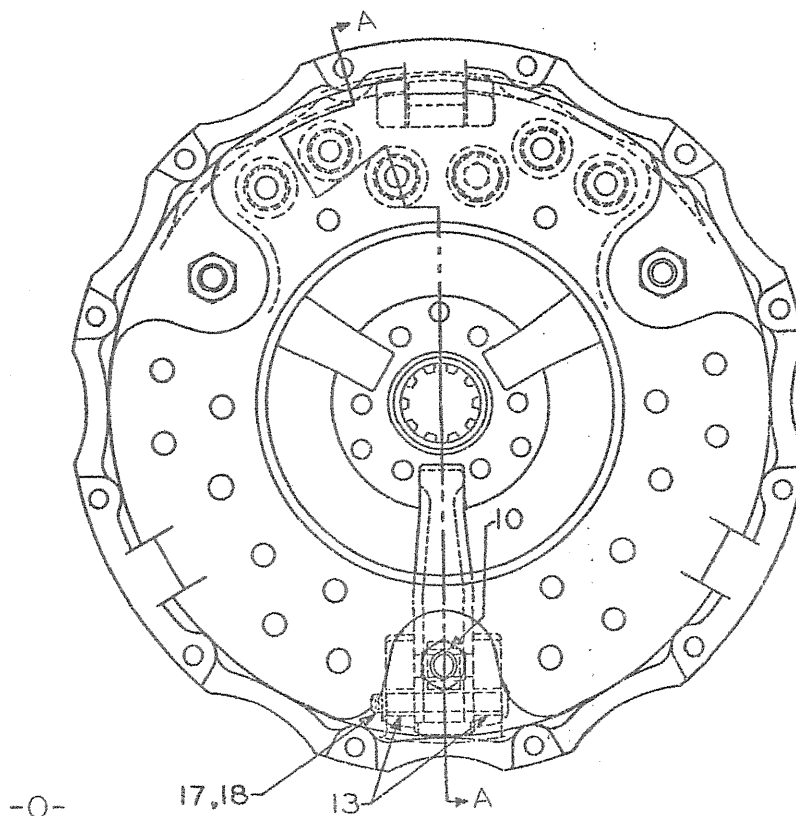
0	PGFA-10910	1	Clutch group, complete (16")
1	382151	1	Cover group (includes Ref. Nos. 6 to 19 inclusive)
2	382150	1	Back plate group (includes Ref. Nos. 6,7 and 8)
3	382249	4	Lever group (includes Ref. Nos. 9,10,11 and 12)
4	382141	1	Pressure plate group (includes Ref. Nos. 13 and 14)
5	382240	4	Eyebolt group (includes Ref. Nos. 9 and 10)
6		1	* Back plate
7	382142	4	Adjusting nut washer
8	382143	4	Adjusting nut
9		4	@ Eyebolt
10	382153	4	Needle bearing
11	382129	4	Pivot pin
12	382133	4	Lever
13	382152	8	Needle bearing
14		1	% Pressure plate
15	382137	24	Pressure spring
16	382130	4	Lever pin
17	382131	4	Washer
18	382162	4	Cotter pin
19	382236	4	Anti-rattle spring
20	382168	1	Driven member group (woven lining type) (includes Ref. Nos. 21 to 26 inclusive). See Ref. 20A for heavy duty driven member group
20A	382238	1	Driven member group (cerametallic disc type 12 button) (special order - not illustrated)
21	382166	2	Facing
22	382009	30	Tubular rivet
23		1	& Clutch plate
24		1	& Oil slinger
25		12	& Rivet
26		1	& Splined center

Note: * Indicates parts not sold separately. Order Ref. No. 2.
 @ Indicates parts not sold separately. Order Ref. No. 5.
 % Indicates parts not sold separately. Order Ref. No. 4.
 & Indicates parts not sold separately. Order Ref. No. 20.

When replacing Ref. 3, part No. 382249 lever group, we recommend installing a complete set of four lever groups.



Section A-A



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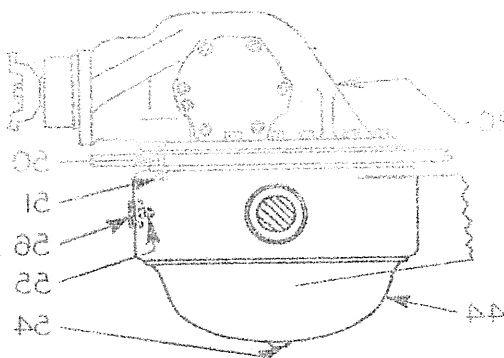
IMPORTANT NOTICE: Do not "over grease" clutch pilot bearing so that grease gets onto facings, Ref. 20. More clutch slippage and damage, or replacement, is caused by grease getting on the facings than by any other single cause. Warped and cracked pressure plates, also damaged facings are the result, and the warranty of same will be seriously affected.

Figure 20. Clutch for GM-4080 or UD-14A Engine
(Also for GM-4055C Engine in Machines 99-584 and up)

1	382241	1	Back plate group (includes Ref. Nos. 6, 7 and 8)
2	382158	1	Back plate group (includes Ref. Nos. 6, 7 and 8)
3	382239	3	Lever group (includes Ref. Nos. 9, 10, 11 and 12)
4	382160	1	Pressure plate group (includes Ref. Nos. 13 and 14)
5	382240	3	Eyebolt group (includes Ref. Nos. 9 and 10)
6		1	* Back plate
7	382142	3	Adjusting nut washer
8	382144	3	Adjusting nut
9		3	@ Eyebolt
10	382153	3	Needle bearing
11	382129	3	Pivot pin
12	382139	3	Lever
13	382152	6	Needle bearing
14		1	% Pressure plate
15	382137	18	Pressure spring
16	382130	3	Lever pin
17	382131	3	Washer
18	382162	3	Cotter pin
18A	382236	3	Anti-rattle spring
19	382248	1	Driven member group (cerametallic disc type - 8 button) (includes Ref. Nos. 20 to 25 inclusive)
20		16	& Facing
21		8	& Rivet ("H" type)
22		1	& Clutch plate
24		12	& Rivet
25		1	& Splined center

Note: * Indicates parts not sold separately. Order Ref. No. 2.
 @ Indicates parts not sold separately. Order Ref. No. 5.
 % Indicates parts not sold separately. Order Ref. No. 4.
 & Indicates parts not sold separately. Order Ref. No. 19.

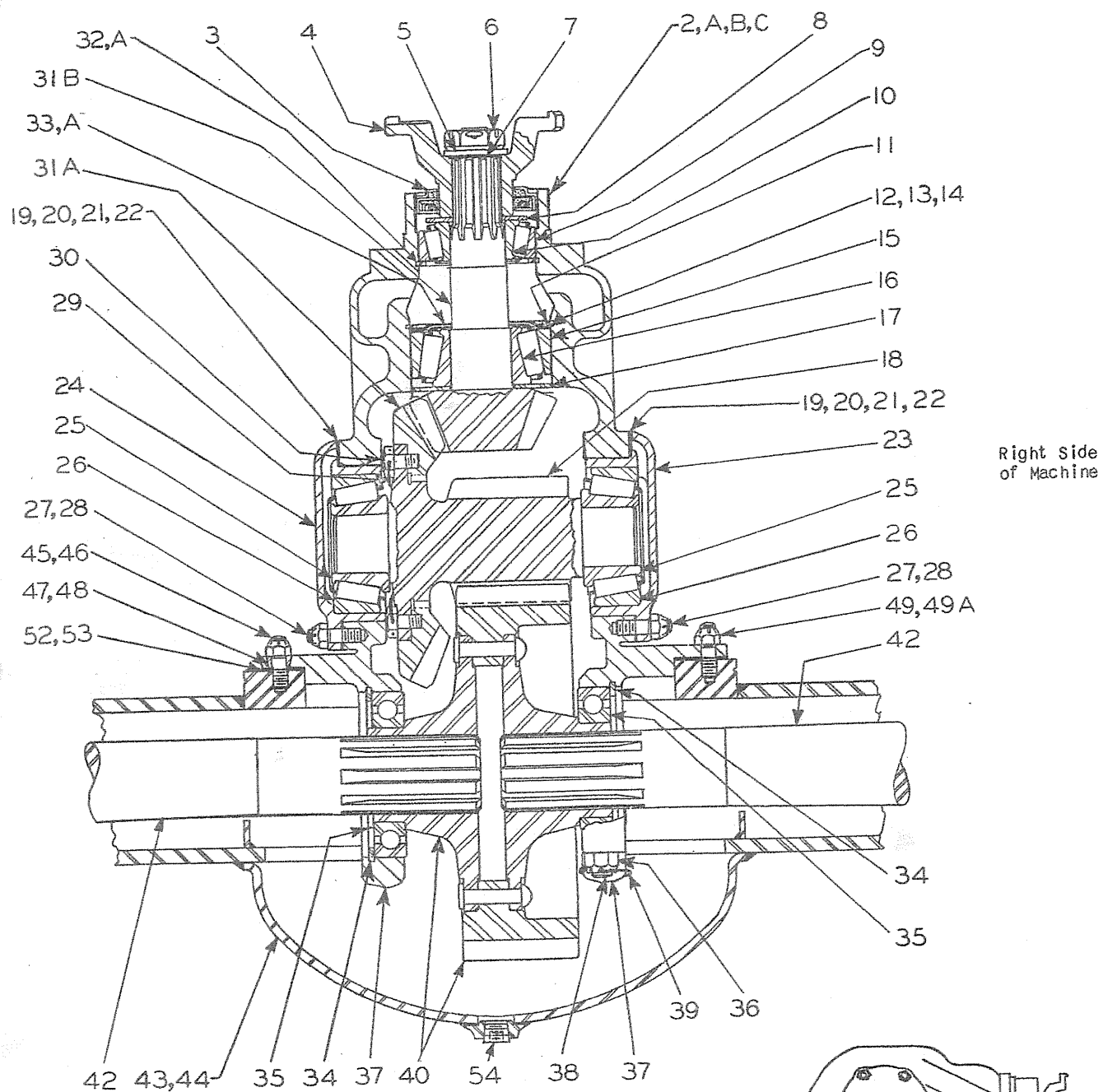
When replacing Ref. 3, part No. 382239 Lever group, we recommend installing a complete set of three lever groups.



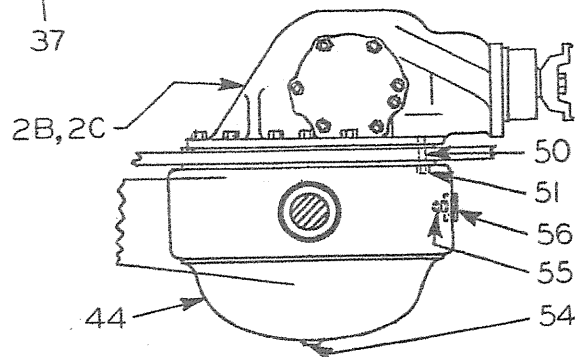
Refer to Pages 39 and 40 for Part Numbers

BVM P30-8486
 100-6551A

Figure 31. Rear Axle Gear Carrier



I-IA-IB-IC



Refer to Pages 39 and
40 for Part Numbers

B/M PGU-2486
PGU-2551,A

Figure 21. Rear Axle Gear Carrier

1A	PGU-9271	1	Ref. No. 1A) * Rear axle gear carrier group (does not use snap rings Ref. 32 and 33) (includes Ref. Nos. 2A to 41 inclusive except Ref. Nos 2B, 2C, 32, 32A, 33 and 33A)
1B	PGU-2551	1	@ Rear axle gear carrier group (uses washers Ref. 32A and 33A) (no longer furnished. Order Ref. No. 1C)
1C	PGU-2551-A	1	& Rear axle gear carrier group (does not use washers Ref. 32A and 33A) (includes Ref. Nos. 2C to 41 inclusive except Ref. Nos. 32, 32A, 33 and 33A)
2	PGF-15148	1	% Gear carrier casting (used in Ref. 1 gear carrier group) (no longer furnished. Order Ref. No. 2A)
2A	PGFS-15533	1	* Gear carrier casting (includes Ref. Nos. 27, 28, 36, 37 and 38)
2B	PGF-15385	1	@ Gear carrier casting (used in Ref. 1B gear carrier group) (no longer furnished. Order Ref. No. 2C)
2C	PGFS-15380	1	& Gear carrier casting (includes Ref. Nos. 27, 28, 36, 37 and 38)
3	PGF-5240	1	Oil seal
4	PGF-8537-58	1	Fitting yoke
5	PGF-4864	1	Washer
6	PGF-15388	1	Slotted nut
7	PGF-4865	2	Washer gasket
8	PGF-4852	1	Spline shaft washer
9	313448	1	Bearing cup
10	312991	1	Bearing cone and rollers
11	PGF-11954	1	Oil retainer
12	PGF-11957	As req'd.	Shim - .005" thick
13	PGF-11956	As req'd.	Shim - .007" thick
14	PGF-11958	As req'd.	Shim - .020" thick
15	313209	1	Bearing cup
16	312549	1	Bearing cone and rollers
17	PGF-8595	1	Oil retainer
18	PGF-14592	1	Pinion and gear hub
19	PGF-15379	4	Gasket (brass) (2 each side)
20	PGF-12789	As req'd.	Shim - .005" thick
21	PGF-12790	As req'd.	Shim - .007" thick
22	PGF-12791	As req'd.	Shim - .020" thick
23	PGF-15070	1	Bearing cap with cup - R.H. (includes 1 of Ref No. 26)
24	PGF-15068	1	Bearing cap with cup - L.H. (includes 1 of Ref No. 26)
25	312547	2	Bearing cone and rollers
26	313208	2	Bearing cup
27	PGF-15052	12	Stud

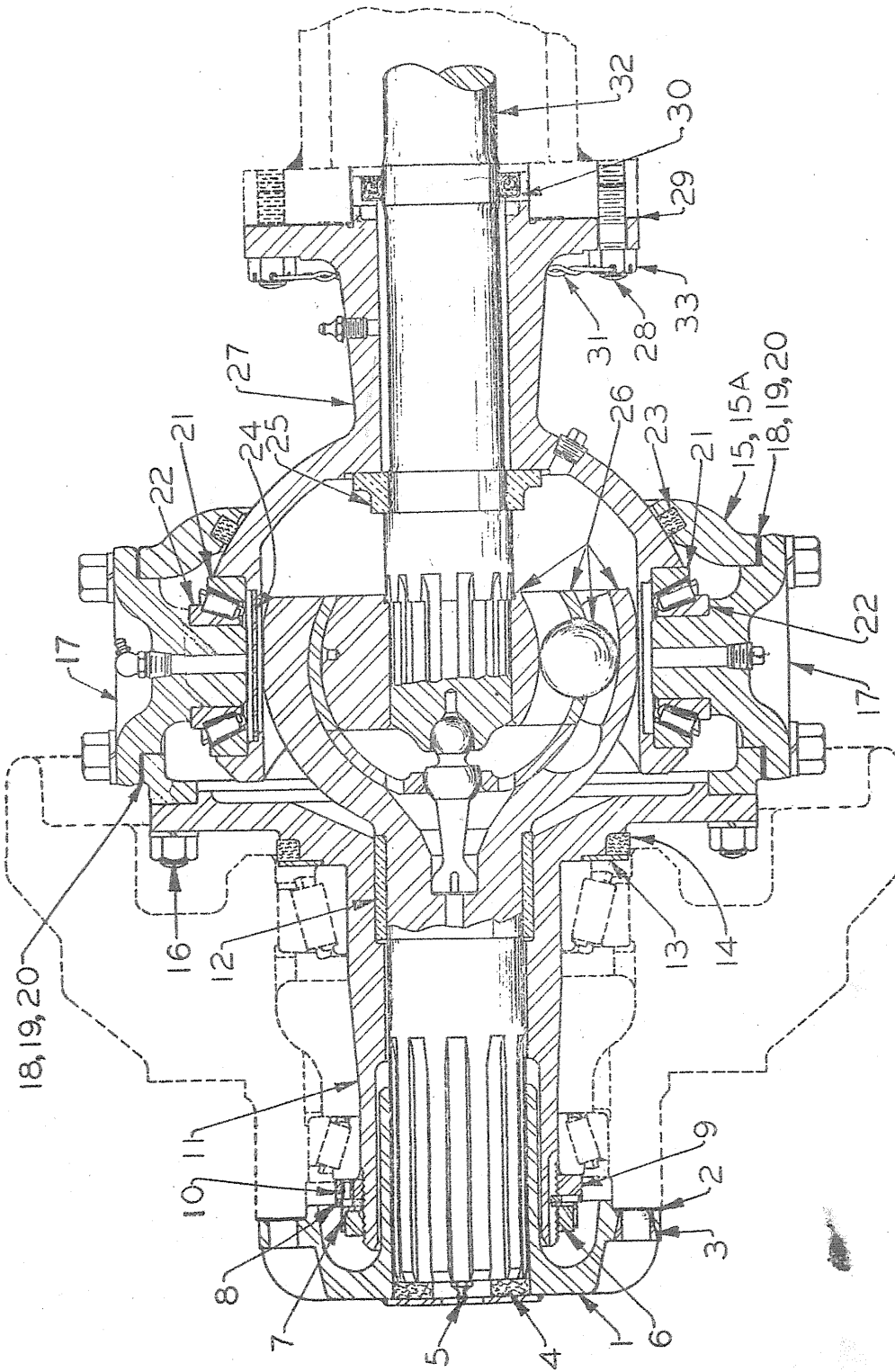
Note: % Machines below 99L-972 (use snap rings and 1/2" flange studs).
 * Machines below 99L-972 (use 1/2" flange studs - no snap rings).
 @ 99L-972 and up (uses washers and 5/8" flange studs).
 & 99L and up (uses 5/8" flange studs - no washers).

(continued)

(Refer to Figure 21 for reference numbers.)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
	914005	12	Hex nut (hug-lock)
29	PGF-9436	2	Lock wire
30	PGF-13276	6	Bevel gear cap screw
31A	PGF-14796	1	\$ Spiral bevel gear
31B	PGF-14796	1	\$ Spiral bevel pinion
32	PGFA-11962	1	% Snap ring
32A	PGF-15384	1	@ Washer
33	PGFA-11963	1	% Snap ring
33A	PGF-15383	1	@ Washer
34	PGF-14407	2	Washer
35	311339	2	Ball bearing
36	727009	4	Castellated nut
37		2	# Bearing cap
38	PGF-14799	4	Stud
39	PGF-9486	2	Lock wire
40	PGF-14691	1	Gear and hub
41	PGF-4184	1	Gear carrier vent plug - top (not illustrated)
42	PGF-14521	2	Drive shaft or axle
43	PGF-14698	1	/* Rear axle housing with PGF-14806 liners
44	PGF-15516	1	@& Rear axle housing with PGF-14806 liners
45	BTF-890	12	/* Stud - 1/2" dia.
46	PGF-13550	12	@& Stud - 5/8" dia.
47	PGF-3084	1	/* Taper bushing
48	PGF-15512	1	@& Taper bushing
49	914005	12	/* Hex nut (hug-lock)
9A	914007	12	@& Hex nut (hug-lock)
50	PGF-15510	1	@& Gear carrier stud - 3/4" dia.
51	927008	1	@& Slotted nut
52	PGFB-14703	1	/* Gasket
53	PGF-15511	1	@& Gasket
54	812004	1	Drain plug - countersunk head
55	810004	1	Filler and oil level plug
56	812009	1	@& Pipe plug - countersunk head

Note: % Machines below 99L-972 (use snap rings and 1/2" flange studs).
 * Machines below 99L-972 (use 1/2" flange studs - no snap rings).
 @ 99L-972 and up (uses washers and 5/8" flange studs).
 & 99L and up (uses 5/8" flange studs - no washers).
 \$ Bevel gear and bevel pinion sold in matched sets only.
 # Bearing caps not sold separately - Order Ref. No. 2A or 2C complete gear carrier casting.

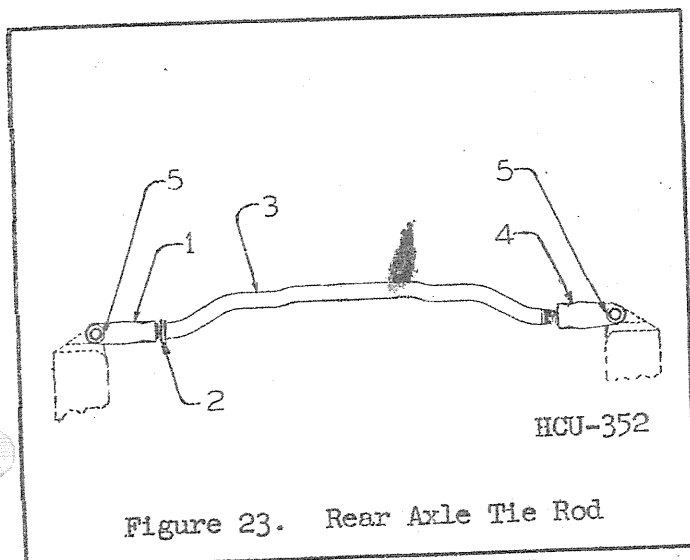


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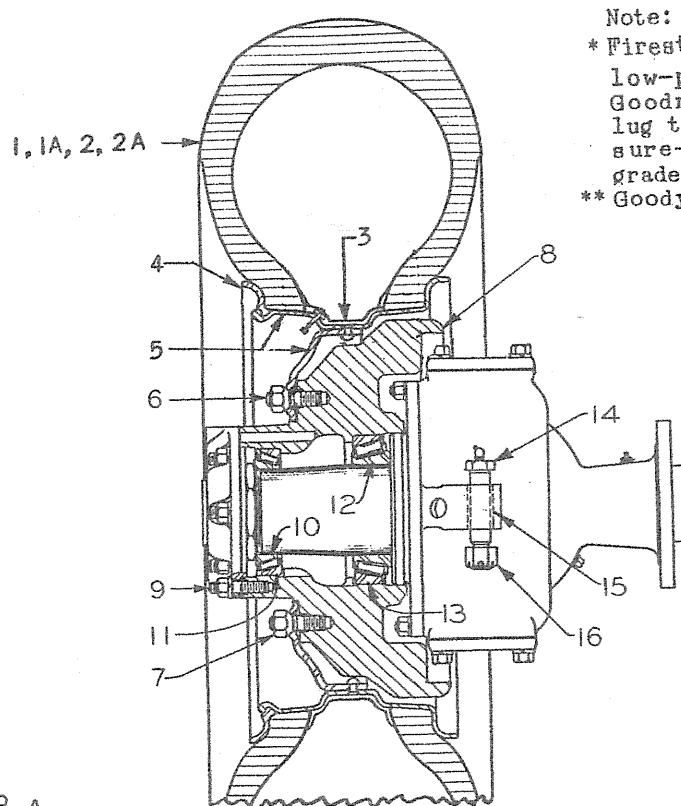
Figure 22. Rear Axle Steering Knuckle and Universal Joint

1	PGF-13549	1	Driving hub or flange
2	PGF-13555	1	Gasket
3	PGF-13541	4	Dowel bushing
4	PGF-7012	1	Felt
5	064456	1	Grease fitting
6	PGF-5436	1	Lock nut
7	PGF-5439	1	Lock washer
8	PGF-5438	1	Washer
9	PGU-5437	1	Adjusting nut with pin (includes Ref. No. 10)
10	PGF-3677	1	Adjusting nut pin
11	PGF-13540	1	Steering knuckle
12	PGF-5591	1	Steering knuckle bushing
13	PGF-4358	1	Washer
14	PGF-4360	1	Felt
15	PGP-2331	1	Knuckle flange - L.H. with two PGF-8753 bushings
15A	PGP-2249	1	Knuckle flange - R.H. with one PGF-8753 bushing
16	PGF-13550	12	Stud
17	PGF-14727	2	Steer bearing cap
18	PGF-4345	As req'd.	Shim - .005" thick
19	PGF-4346	As req'd.	Shim - .007" thick
20	PGF-4347	As req'd.	Shim - .020" thick
21	313380	2	Bearing cup
22	312836	2	Bearing cone and rollers
23	PGF-4362	1	Felt
24	PGF-4339-2	1	Grease retainer
25	PG-2123	1	Axle retainer
26	PGF-14726	1	* Drive joint group
27	PGF-14599	1	Trunnion socket
28	PGF-12815	8	Stud
29	PGF-12824	1	Gasket
30	194206	1	Oil seal
31	PGF-9486	3	Locking wire
32	PGF-14521	1	Drive shaft or axle
33	737008	8	Slotted nut

Note: * Drive joint repair parts not sold separately. Order complete drive joint group.



REF. NO.	PART NO.	QTY.	DESCRIPTION
1	PG-2211	1	Fork (also order PGF-13270 pin)
2	PGF-3955	1	Adjusting nut
3	HCF-2556	1	Tie rod
4	PG-2212	1	Fork (also order PGF-13270 pin)
5	PGF-13270	2	Pin - 5/16" x 3/4" long (used with Ref. Nos. 1 and 4)



Note:
 * Firestone curved-bar, ground-grip, low-pressure road builder, or Goodrich tractor grader, T-15 lug type, or Goodyear road grader sure-grip, or U.S. Rubber road grader full traction.
 ** Goodyear road grader sure-grip.

B/M PGU-2002-A, 2018-A,
 PGU-2019-A, 2336

Figure 34. Rear Axle Steering Knuckle, Wheel and Tire

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	* Tire - 14.00 x 20 - 14 ply (tapered bead seat)
1A		1	Tube - 14.00 x 20 with TR-220 air-water valve
2		1	** Tire - 16.00 x 20 - 14 ply (special order) (tapered bead seat)
2A		1	Tube - 16.00 x 20 with TR-220 air-water valve
3	PGF-10471	1	Tire flap
4	PGF-12992	1 Pr.	Locking ring (2 piece type) (Goodyear No. 1277-HR)
5	PGF-13695	1	Wheel with rim (less ring)
6	PGF-9591	10	Wheel stud
7	PGF-7357	10	Wheel stud nut
8	PGP-2244	1	Wheel hub with studs (includes Ref. No. 9)
9	PGF-13556	8	Stud
10	312814	1	Bearing cone and rollers
11	313366	1	Bearing cup
12	312888	1	Bearing cone and rollers
13	313407	1	Bearing cup
14	PGF-8757	1	Fork bolt
15	PGF-8753	1	Knuckle flange bushing
16	737010	1	Slotted nut
	PGF-5131	1	% Tire chain (special order) (for 14.00 x 20 tires) (must have 27 cross chains - every other side link)
	PGF-11809	1	% Tire chain (special order) (for 16.00 x 20 tires) (must have 28 cross chains - every other side link)

Note: % Indicates parts not illustrated. One each used on all four tires.

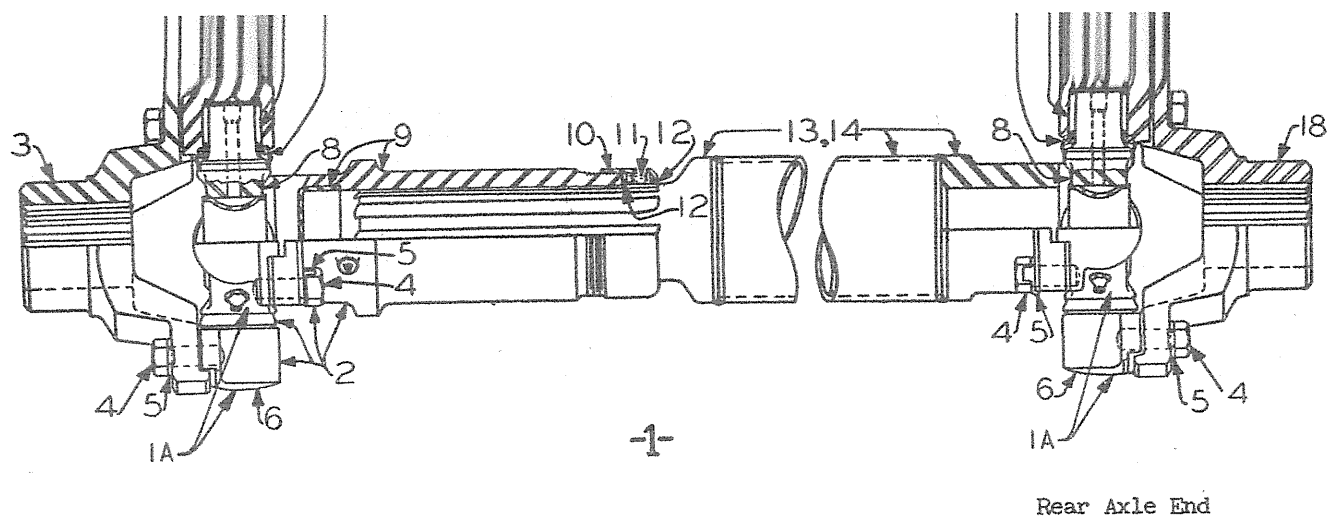


Figure 25. Rear Propeller Shaft

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-14522	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	Fitting yoke
4	PGF-9717-55	16	Cap screw
5	PGF-9717-56	8	Cap screw lock plate
6		8	Bearing group (not sold separately. Order Ref. No. 1A)
7	465149	8	Cork trunnion washer
8		2	Spider group (not sold separately. Order Ref. No. 1A)
9	465118	1	Slip yoke with dust cup
10	465013	1	Felt retainer
11	465017	1	Felt washer
12	465018	2	Felt retainer washer
13	465235	1	Propeller tube and joint group (includes Ref. Nos. 4, 5, 6, 7, 8 and 14)
14	465157	1	Propeller tube group
18	PGF-8537-58	1	Fitting yoke

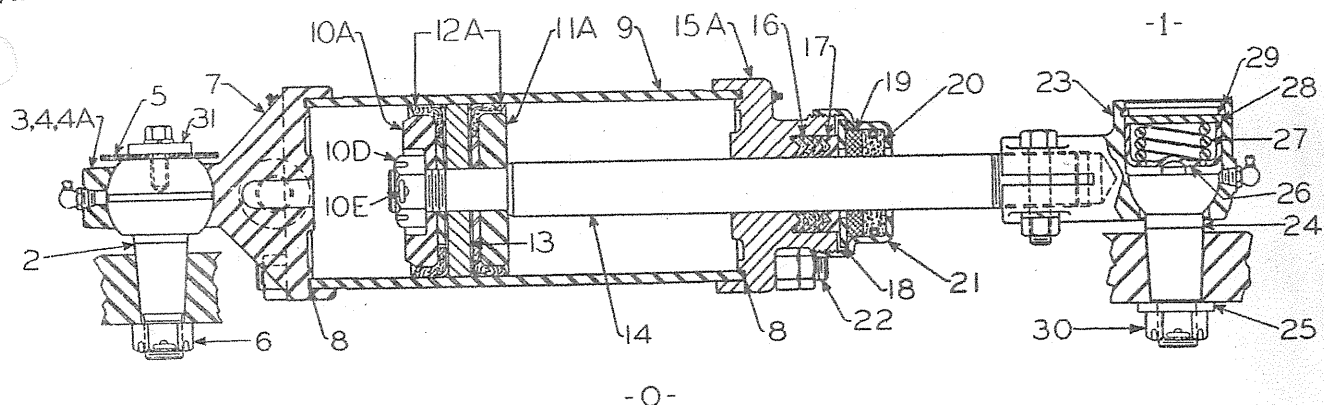
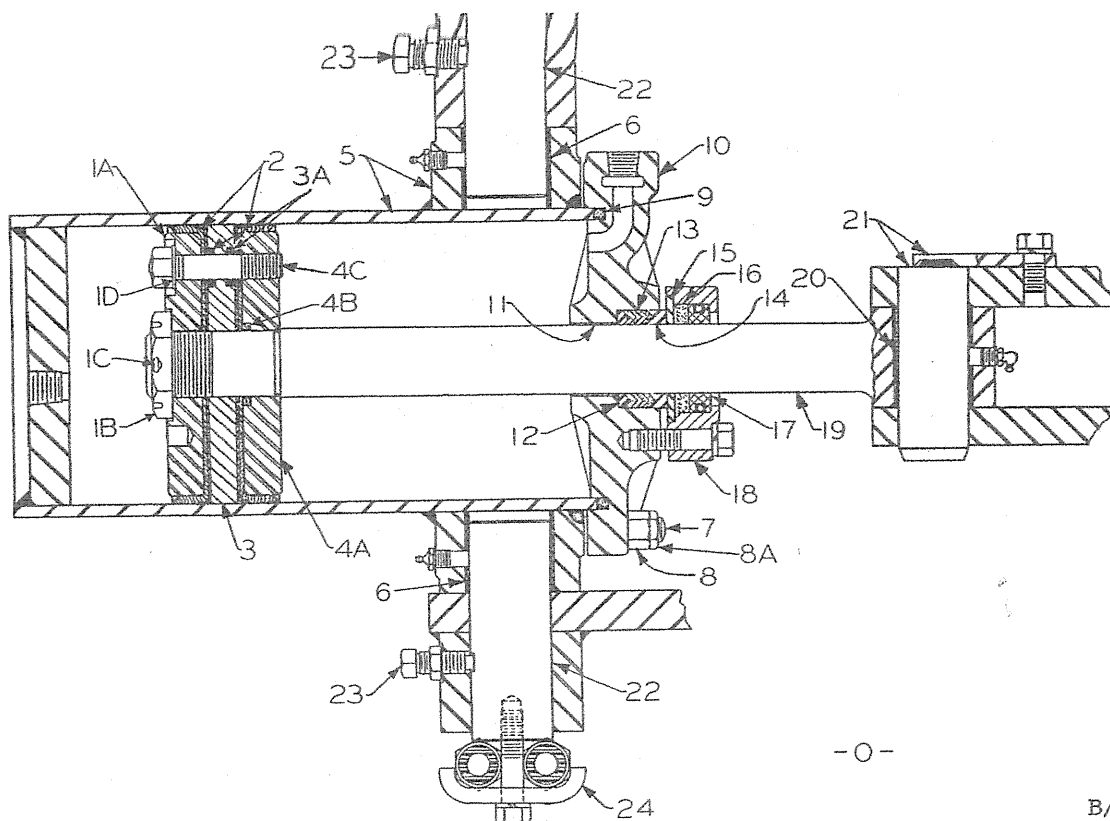


Figure 26. Front Axle Steering Ram

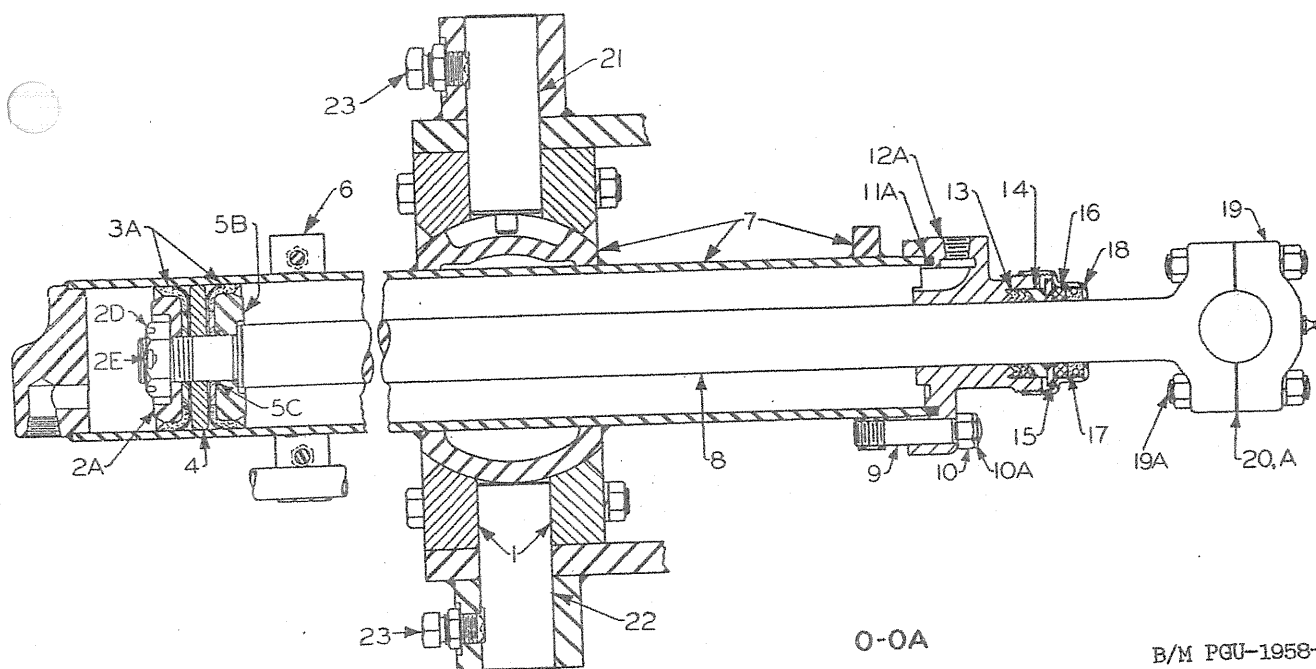
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-1842-C	1	Steering ram group (includes Ref. Nos. 2 to 31 inclusive)
1	PGUS-9206	1	Socket group (includes Ref. Nos. 23 to 30 inclusive)
2	PGF-8823	1	Ball stud
3	PGF-9487	1	Ball cap
4	MGF-1992	4	Ball cap shim - .024" thick
4A	PGF-11856	4	Ball cap shim - .010" thick
5	PGF-3318	1	Washer
6	734010	1	Slotted nut
7	PG-707	1	Base
8	PGF-1687	2	Gasket
9	PGF-8985	1	Cylinder
10A	PGF-10805	1	Outer spreader
10D	PGF-11547	1	Slotted nut
10E	166037	1	Cotter pin
11A	PGF-8227	1	Inner spreader
12A	PGF-11775	2	Cup
13	PGA-694	1	Piston
14	PGF-8982	1	Piston rod
15A	PG-1892	1	Head
16	PGF-12366	4	Chevron packing ring
17	PGF-8986	1	Press ring
18	PGF-7025	1	Retainer
19	PGF-7022	1	Felt
20	PGF-7026	1	Wiper
21	PGF-7019	1	Cap
22	PGF-8983	4	Tie rod
23	PGF-4256	1	Socket
24	PGF-9939	1	Ball stud
25	PGF-9944	1	Ball stud washer
26	PGF-4258	1	Spring seat
27	PGF-4259	1	Spring
28	PGF-4261	1	Plug
29	PGF-4260	1	Lock wire
30	737009	1	Slotted nut
31	PGF-10314	1	Washer plate



B/M PGU-2386

Figure 27. High Lift Ram

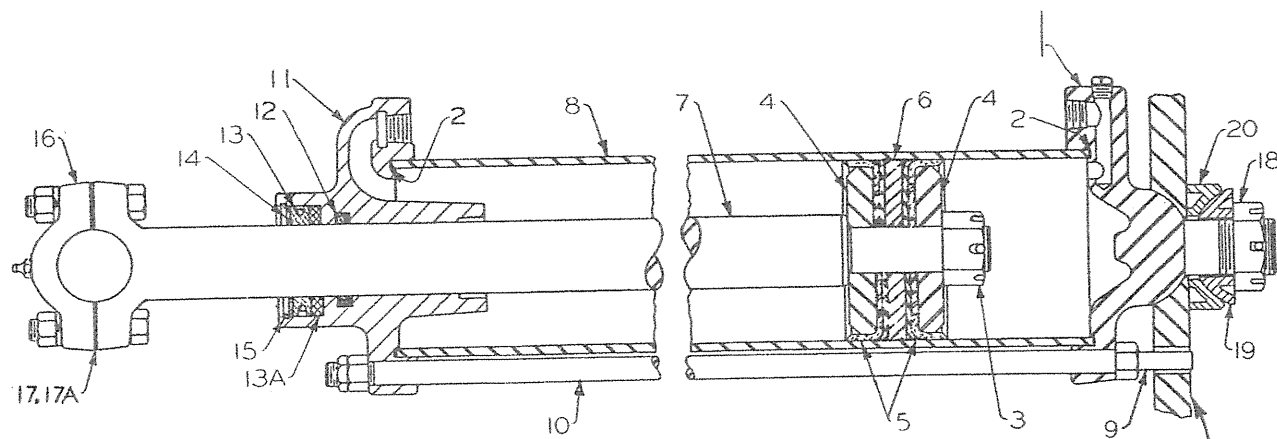
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-2386	1	High lift ram group (includes Ref. Nos. 1A to 20 inclusive)
1A	PGF-11818	1	Outer spreader
1B	PGF-11820	1	Slotted nut
1C	166041	1	Cotter pin
1D	770015	4	Shakeproof washer
2	PGF-11754	2	Cup
3	PGA-1909	1	Piston (also order Ref. 3A)
3A	PGF-9648-25	8	"O" ring (first used on 99-506)
4A	PGF-11802	1	Inner spreader with studs and nuts (includes Ref. No. 4C)
4B	PGF-9648-8	1	"O" ring
4C	PGF-10486	4	Stud
5	PGU-2389	1	Cylinder with bushings (includes Ref. No. 6)
6	PGF-9227	2	Bushing
7	PGF-9305	10	Stud
8	722007	10	Hex nut
8A	724007	10	Pal nut
9	PGF-9648-50	1	"O" ring
10	PG-2082	1	Head
11	PGF-12108	1	Head bushing
12	RGF-4279	1	Seal ring
13	RGF-4381	4	Chevron packing ring
14	PGF-12114	1	Press ring
15	PGF-12113	1	Retainer
16	PGF-10084	1	Felt
17	PGF-1727	1	Wiper
18	PG-2081	1	Cap
19	PGF-14938	1	Piston rod
20	PGF-9232	1	Bushing
21	PGF-15059	1	Rod pin
22	PGF-9224	2	Pivot pin
23	758094	2	Set screw - dog point
24	PGF-9530	1	Hose clamp



B/M PGU-1958-C
PGU-1959-C

Figure 28. Blade Lift Ram

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
OA	PGU-1958-C	1	Blade lift ram group - right hand (includes Ref. Nos. 1 to 20A inclusive except Ref. 6)
	PGU-1959-C	1	Blade lift ram group - left hand (includes Ref. Nos. 1 to 20A inclusive except Ref. 6)
1	PGU-1694	1	Ball socket - 2 halves
2A	PGF-10804	1	Outer spreader
2D	PGF-11546	1	Slotted nut
2E	166038	1	Cotter pin
3A	PGF-11753	2	Cup
4	PGA-320	1	Piston
5B	PGF-11801	1	Inner spreader
5C	PGF-9648-16	1	"O" ring
6	PGF-9521	1	Hose clamp
7	PGP-10839	1	Cylinder with studs and hex nuts (includes Ref. Nos. 9 and 10)
8	PGF-9240	1	Piston rod
9	PGF-10840	4	Stud
10	722007	4	Hex nut
10A	724007	4	Pal nut
11A	PGF-9648-14	1	"O" ring
12A	PG-1944	1	Head
13	PGF-9229	4	Chevron packing ring
14	PGF-9221	1	Press ring
15	PGF-9237	1	Retainer
16	PGF-9238	1	Felt
17	PGF-9239	1	Wiper
18	PGF-9243	1	Cap
19	PGF-9487	1	Ball cap
19A	PGF-10231	2	Ball cap stud
20	MCF-1992	4	Ball cap shim - .024" thick
20A	PGF-11856	4	Ball cap shim - .010" thick
21	PGF-9245	1	Pivot pin
22	PGF-9246	1	Pivot pin - short
23	755148	2	Set screw - cup point



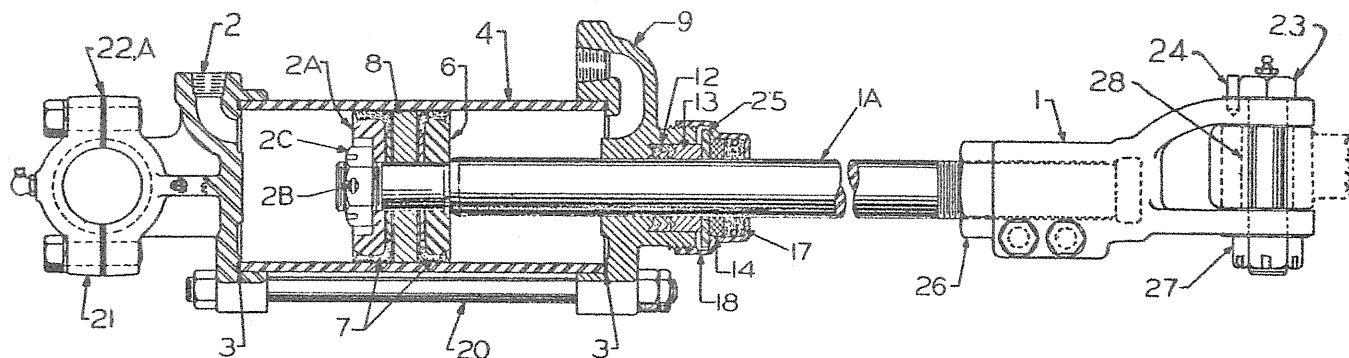
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Circle RH blade arm

B/M PGU-1935-B

Figure 29. Blade Side Shift Ram

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-1935-B	1	Blade side shift ram group (includes Ref. Nos. 1 to 18 inclusive)
1	PGF-9422	1	Base
2	PGF-1688	2	Gasket
3	734013	1	Slotted nut
4	PGF-3255	2	Spreader
5	PGF-11776	2	Cup
6	PGA-862	1	Piston
7	PGF-10501	1	Piston rod
8	PGF-10500	1	Cylinder
9	PGF-10499	1	Tie rod
10	PGF-10498	4	Tie rod
11	PG-2026	1	Head
12	PGF-9648-30	1	"O" ring
13	PGF-1727	1	Wiper
13A	PGF-10084	1	Felt
14	RGF-1293	1	Washer
15	PGF-9420	1	Snap ring
16	PGF-9487	1	Ball cap
17	MGF-1992	6	Ball cap shim - .024" thick
17A	PGF-11856	4	Ball cap shim - .010" thick
18	PGF-3209	1	Ball plate nut
19	PG-890	1	Ball plate
20	PG-889	1	Ball socket



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B/M PGU-2390

Figure 36. Rear Axle Steering Ram

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-2390	1	Steering ram group (includes Ref. Nos. 1 to 26 inclusive except Ref. No. 23)
1	PG-2329	1	Piston rod fork
1A	PGF-14573	1	Piston rod
2	PG-707	1	Base
2A	PGF-10804	1	Outer spreader
2B	166038	1	Cotter pin
2C	PGF-11546	1	Slotted nut
3	PGF-1687	2	Gasket
4	PGF-14577	1	Cylinder
6	PGF-1158	1	Inner spreader
7	PGF-11753	2	Cup
8	PGA-320	1	Piston
9	PG-1342	1	Head
12	RGF-4382	5	Chevron packing ring
13	PG-1348	1	Press ring
14	PGF-6997	1	Felt
17	PGF-1699	1	Wiper
18	PGF-7019	1	Cap
20	PGF-14575	4	Tie rod
21	PGF-9487	1	Ball cap
22	MGF-1992	4	Ball cap shim - .024" thick
22A	PGF-11856	4	Ball cap shim - .010" thick
23	PGF-8757	1	Fork bolt
24	PGF-13270	1	Pin
25	PGF-7025	1	Retainer
26	726015	1	Jam nut
27	737010	1	Slotted nut
28	PGF-8753	1	Knuckle flange bushing

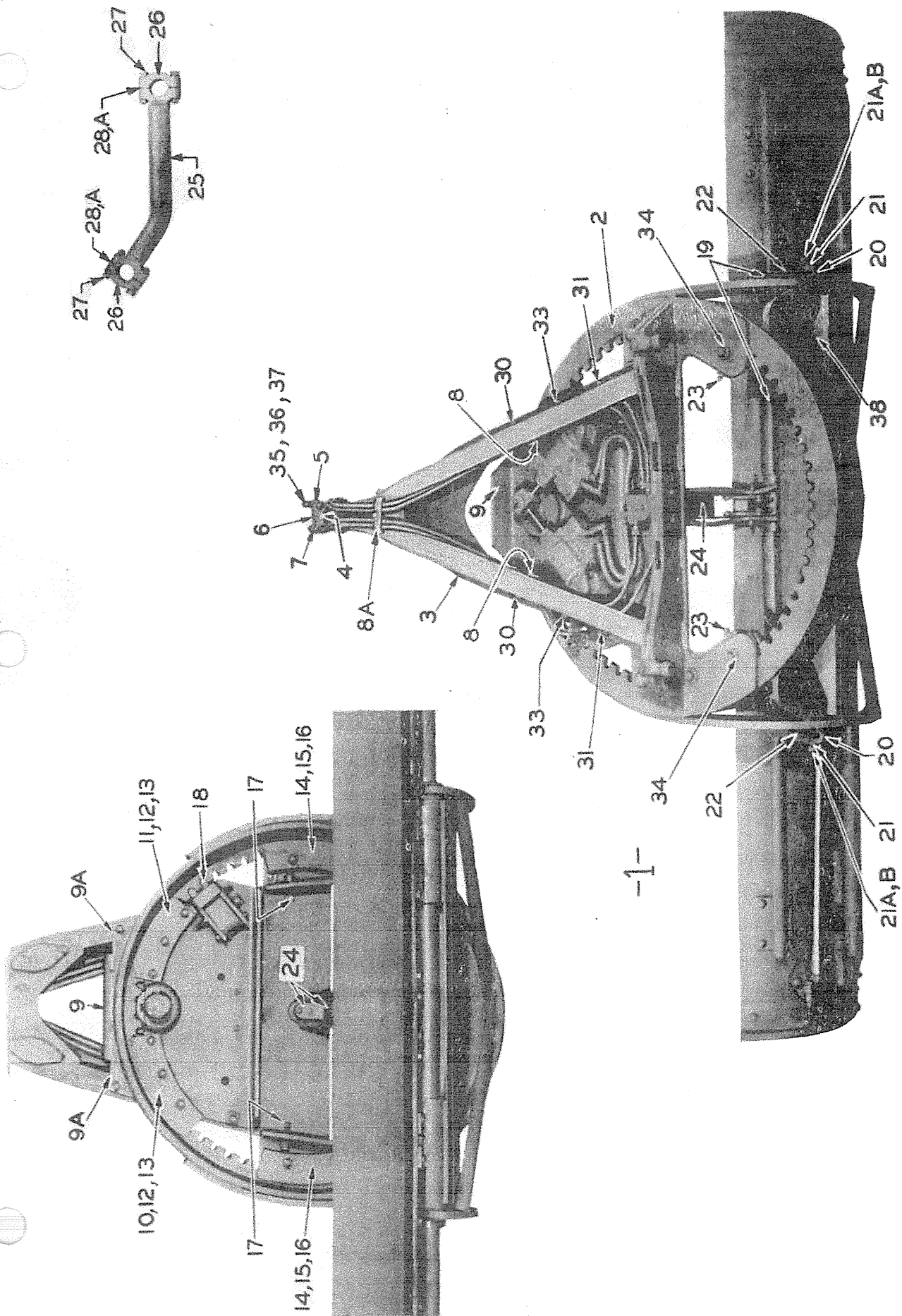
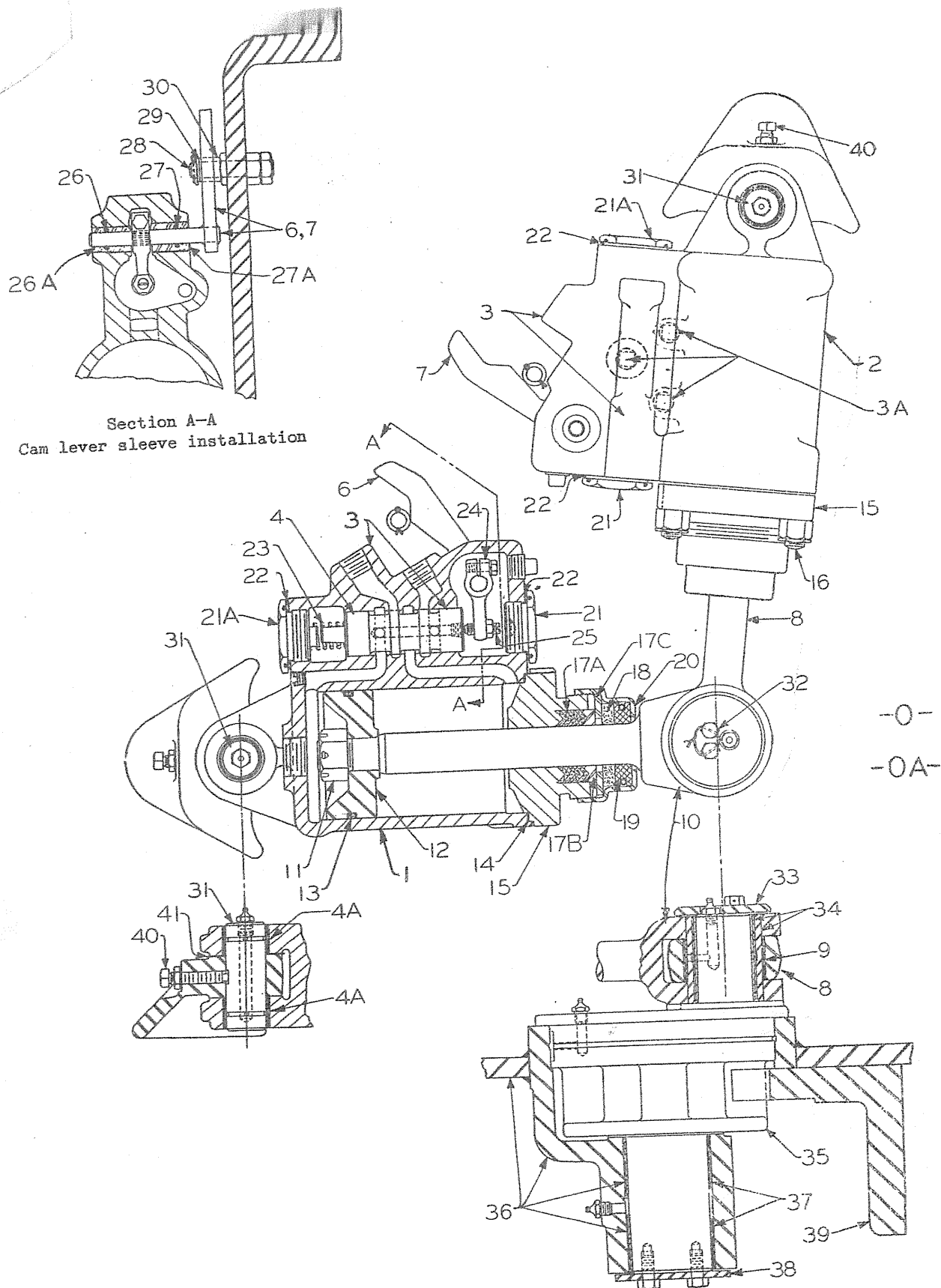


Figure 32. Circle and Draw Bar

B/M PGU-1936-F

2	PGF-12301	1	Circle draw bar group (includes Ref. Nos
3	PGF-14351	1	4 and 5)
4	PGF-9236-3	1	Ball (welds on)
5	PG-2059	1	Ball cap
6	PG-2060	1	Ball socket
7	HTF-367	12	Ball cap shim
8	PGF-11680	2	Pipe clamp
8A	PGF-9529	1	Pipe clamp
9	PGU-1670	1	Circle front support with bushings PGF-8908
9A	PGF-10358	10	Support plate shim - .023" thick
10	PGF-9618	1	Front circle support - right hand
11	PGF-9617	1	Front circle support - left hand
12	PGF-8948	As req'd	Front circle support shim - .015" thick
13	PGF-8949	10	Front circle support shim - .032" thick
14	PGF-9620	2	Rear circle support
15	PGF-10414	As req'd	Rear circle support shim - .015" thick
16	PGF-10413	As req'd	Rear circle support shim - .030" thick
17	755288	2	Set screw - cup point
18	PGF-8996	1	Circle latch
19	PGF-11996	1	Tube with tilting links (includes Ref. No. 20)
20	PGF-10827-3	2	Tilt link (welds on)
21	PG-2065	2	Anchor lug (in circle assembly)
21A	PGF-12993-2	2	Anchor lug stud (welds on)
21B	PGF-12993-1	2	Anchor lug stud plate (welds on)
22	PGF-11931	2	Anchor lug plate washer
23	755153	2	Set screw - cup point
24		1	Circle reverse junction block with plug and rotating linkage (see hydraulic piping page, Fig. 37A)
25	PGF-9244	1	High lift link
26	PGF-9487	2	Ball cap
27	PGF-10231	4	Ball cap stud
28	MGF-1992	4	Ball cap shim - .024" thick
28A	PGF-11856	8	Ball cap shim - .010" thick
30	PGF-15325	2	Bolt
31	PGF-10495	2	Bolt
33	742890	2	Bolt
34	PGF-10607	6	Washer
35	PGF-11874	4	Stud
36	738009	8	Stud nut
37	778019	8	Stud lock washer
38	PGF-9752	1	Ram shield
	PGF-8779	2	Ram shield clamp (not illustrated)



B/M PGU-1684-A

Figure 33. Circle Reverse Hydraulic Motor

OA	HCU-244	1	with base plate and pinion
1	PGU-1683-A	1	Circle reverse hydraulic motor, less base plate and pinion (includes Ref. Nos. 1, 2 and 34)
2	PGU-1682-A	1	Cylinder, valve and piston assembly - right hand (piston rod has forked end) (includes Ref. Nos. 3, 3A, 6 and 10 to 27 inclusive except Ref. Nos. 26A and 27A)
3	PGUS-9232	2	Cylinder, valve and piston assembly - left hand (piston rod has single bushed end) (includes Ref. Nos. 3, 3A, 7, 8 and 11 to 27 inclusive except Ref. Nos. 26A and 27A)
3A	HCF-2159	3	* Cylinder and valve body (R and L) with valve and bushings (includes Ref. Nos. 4, 4A, 21, 21A and 22)
4		1	Valve body plug
4A	PGF-8902	2	* Valve plug (movable)
6	PGF-9249	1	Body bushing
7	PGF-9250	1	Valve control cam lever - right hand
8	PGU-1669	1	Valve control cam lever - left hand
9	PGF-8909	1	Piston rod with bushing (includes Ref. No. 9)
10	PGF-9761	1	Rod bushing
11	734011	1	Piston rod
12	PGF-9647	1	Slotted nut
13	PGF-9648-1	1	Piston
14	PGF-9649	1	"O" ring
15	PG-1826	1	Gasket
16	PGF-9769	4	Cylinder cap
17A	PGF-12366	5	Stud
17B	PGF-8986	1	Chevron packing ring
17C	PGF-7025	1	Press ring
18	PGF-7022	1	Retainer
19	PGF-7026	1	Felt
20	PGF-7019	1	Wiper
21	PGF-13259	1	Cap
21A	PGF-13258	1	Plug (also order one of Ref. No. 22)
22	PGF-9648-40	2	Plug (also order one of Ref. No. 22)
23	HCF-2142	1	"O" ring
24	PGF-8938	1	Valve spring
25	PGF-8252	1	Valve actuating lever
26	PGF-9648-22	1	Adjusting screw
26A	PGF-13591	1	"O" ring
27	PGF-9648-21	1	"O" ring sleeve
27A	PGF-13590	1	"O" ring
28	PGF-9619	2	"O" ring sleeve
29	PGF-8731	2	Cam pin
30	PGF-8728	2	Cam pin washer
31	PGF-8896	2	Cam pin roller
32	ASF-3704	2	Pivot pin
33	PGF-8243	1	Cap screw
34	PGU-1668	1	Pinion retainer washer
35	PG-1825	1	Bushing group
36	PGU-1670	1	Pinion
37	PGF-8908	2	Circle front support with bushings Ref. 37
38	PGF-8903	1	Support hub bushing
39		1	Pinion retainer washer
40	758058	2	Circle
41	PGF-8248	As req'd	Set screw - dog point
			Ram base shim

Note: * Movable valve plug not sold separately. Order Ref. 3, PGUS-9232.

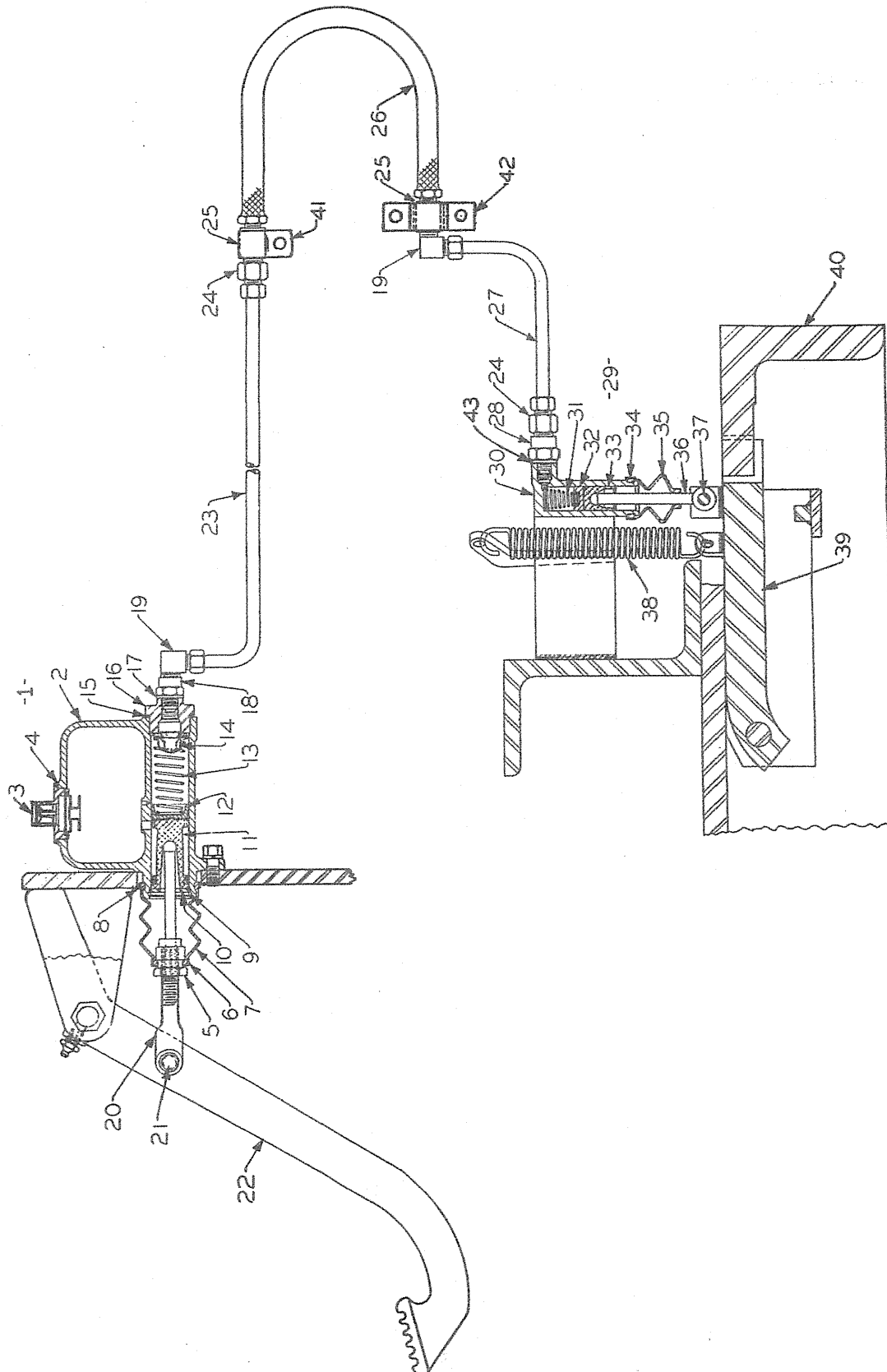


Figure 34. Circle Latch Mechanism

1	PGF-9485	1	Master cylinder group (includes Ref. Nos. 30 to 16 inclusive)
2	333131	1	Supply tank
3	333151	1	Filler plug
4	333141	1	Filler plug gasket
5	333082	1	Piston link
6	333032	1	Boot strap - small
7	333084	1	Boot
8	333085	1	Boot strap - large
9	333107	1	Piston stop wire
10	333108	1	Piston stop washer
11	333106	1	Piston group
12	333072	1	Cup
13	333099	1	Return spring
14	333152	1	Check valve group - dome type
15	333101	1	Head gasket
16	333111	1	Head
17	PGF-10896	1	Gasket
18	789006	1	Connector
19	788007	2	Elbow
20	PGF-9766	1	Yoke
21	783005	1	Pin
22	PG-1827	1	Pedal
23	PGF-9483	1	Tube
24	786005	2	Connector - male
25	PGF-10519	2	Coupling
26	PGF-9437	1	Hose
27	PGF-10057	1	Tube
28	789004	1	Connector
29	PGF-8991	1	Cylinder group (includes Ref. Nos. 30 to 35 inclusive)
30	333118	1	Body
	333146	1	Bleeder screw (not illustrated)
31	333121	1	Return spring
32	333119	1	Cup
33	333120	1	Piston
34	333116	1	Boot strap
35	333122	1	Boot
36	PGF-9013	1	Piston rod
37	783004	1	Pin
38	PGF-13172	1	Spring
39	PGF-8996	1	Latch
40		1	Circle
41	ASF-3678	1	Clip
42	PGF-9755	1	Clip
43	ASF-5451	1	Gasket

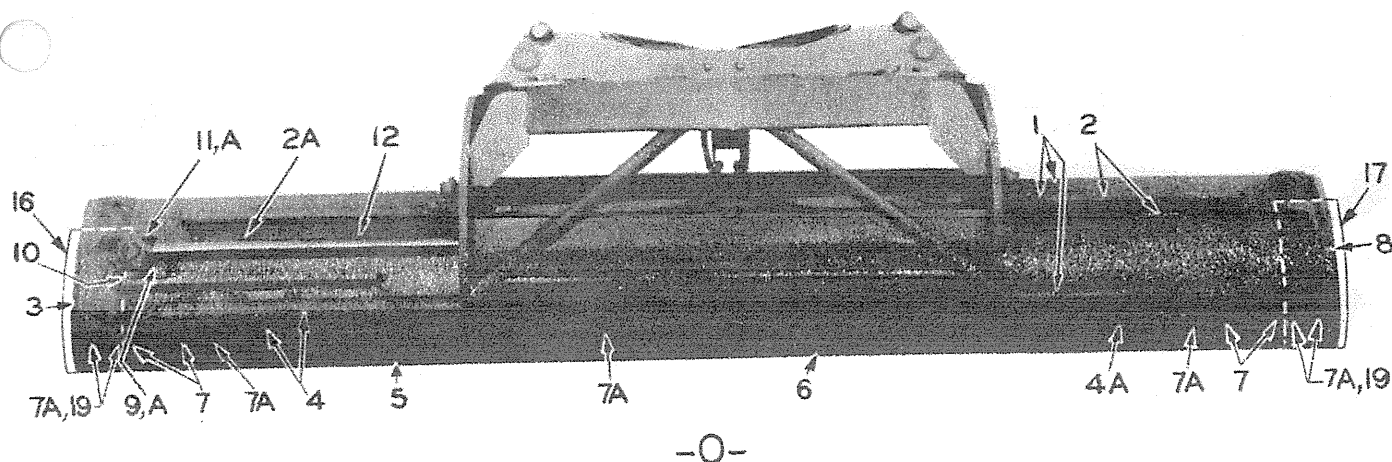


Figure 35. Blade

12' BLADE AND PARTS

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-2376	1	Blade group with bits (includes Ref. Nos. 1,3 and 5 to 13 inclusive)
1	PGP-14594	1	Blade group less bits (incl. Ref. Nos. 2,2A,4 and 4A)
2	PGF-12053	1	Upper shaft with supports (rivets to moldboard)
2A	572226	16	Upper shaft support rivet - button head (3/4" x 2")
3	PGF-14750	1	End bit - left hand
4	PGF-13055	1	Lower tube with supports (rivets to moldboard)
4A	572226	20	Lower tube support rivet - button head (3/4" x 2")
5	RGF-2780-98	1	Bit or cutting edge (L.H.) 5/8" x 6" x 6'
6	RGF-2780-99	1	Bit or cutting edge (R.H.) 5/8" x 6" x 6'
7	RGF-6461	4	Bit bolt
7A	RGF-6462	24	Bit bolt
8	PGF-14749	1	End bit - right hand
9	PGX-10433	1	Side shift ball support (includes Ref. No. 10)
9A	PGF-11249	2	Ball support shim - .036" thick
10	PGF-11223	2	Ball support pin - 2-3/8" long
11	RGF-6479	1	Ball support bolt
11A	PGF-12155	1	Nut - ball support bolt
12	PGF-10819	1	Moldboard plug bolt
16	PGF-13058	1	Overlaid end bit - left hand (special order)
17	PGF-13057	1	Overlaid end bit - right hand (special order)
19	RGF-6465	10	Overlaid bit bolt

13' BLADE AND PARTS

0	PGU-2377	1	Blade group with bits (includes Ref. Nos. 1,3 and 5 to 13 inclusive)
1	PGP-14593	1	Blade group less bits (incl. Ref. Nos. 2,2A,4 and 4A)
2	PGF-11979	1	Upper shaft with supports (rivets to moldboard)
2A	572226	16	Upper shaft support rivet - button head (3/4" x 2")
3	PGF-14750	1	End bit - left hand
4	PGF-12680	1	Lower tube with supports (rivets to moldboard)
4A	572226	20	Lower tube support rivet - button head (3/4" x 2")
5	RGF-2764-98	1	Bit or cutting edge (L.H.) 5/8" x 6" x 7'
6	RGF-2780-99	1	Bit or cutting edge (R.H.) 5/8" x 6" x 6'
7	RGF-6461	4	Bit bolt
7A	RGF-6462	25	Bit bolt
8	PGF-14749	1	End bit - right hand
9	PGX-10433	1	Side shift ball support (includes Ref. No. 10)
9A	PGF-11249	2	Ball support shim - .036" thick
10	PGF-11223	2	Ball support pin - 2-3/8" long
11	RGF-6479	1	Ball support bolt
11A	PGF-12155	1	Nut
12	PGF-10819	1	Moldboard plug bolt
16	PGF-13058	1	Overlaid end bit - left hand (special order)
17	PGF-13057	1	Overlaid end bit - right hand (special order)
19	RGF-6465	10	Overlaid bit bolt

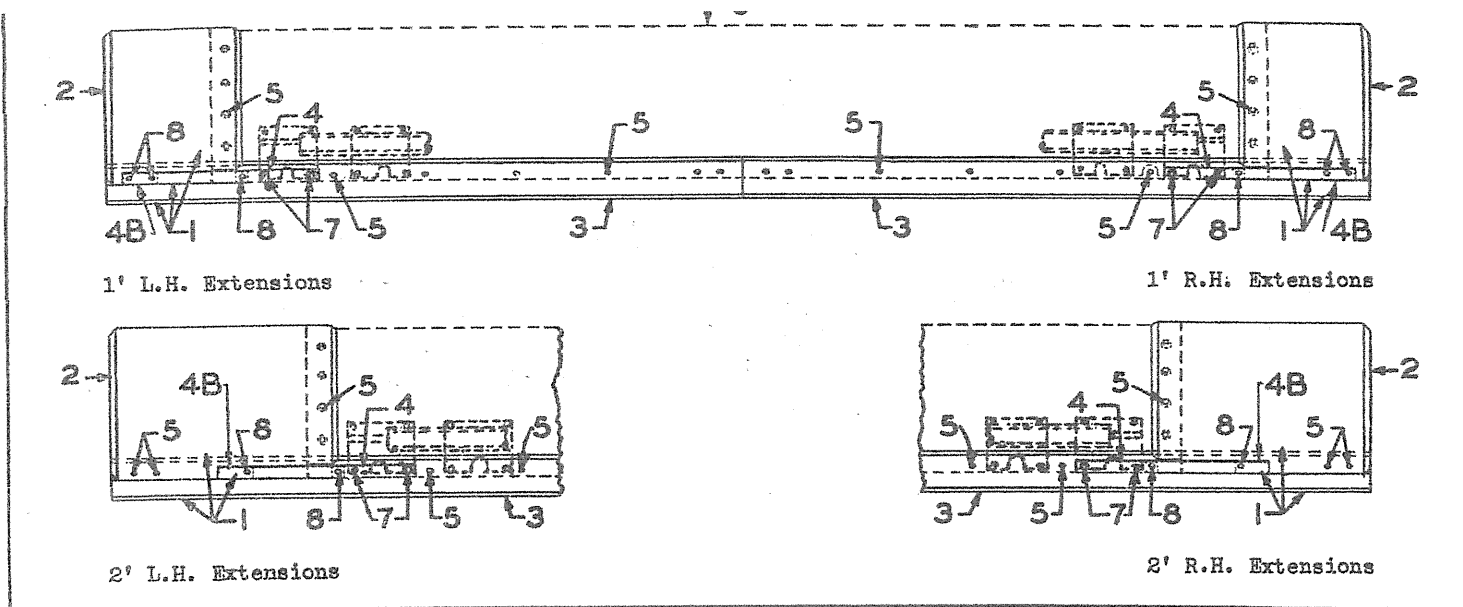


Figure 36. Blade Extension and Cutting Edges

12' Blade Extensions

REF.	DESCRIPTION	QTY.	1' LH EXT.	2' LH EXT.	1' RH EXT.	2' RH EXT.
0	Blade	1				
1	Extension group	1	PGU-2380	PGU-2383	PGU-2378	PGU-2381
2	Extension only	1	PGF-14598	PGF-14596	PGF-14597	PGF-14595
3	Bit	1	* RGF-2764-98	% RGF-2778-98	* RGF-2764-99	% RGF-2778-99
4	Stiffener	1	PGF-10601	PGF-10601	PGF-10601	PGF-10601
4B	Stiffener shim	1	PGF-11502	PGF-11502	PGF-11502	PGF-11502
5	Plow bolt	10	RGF-6462		RGF-6462	
5	Plow bolt	13		RGF-6462		RGF-6462
7	Plow bolt	2	RGF-6473	RGF-6473	RGF-6473	RGF-6473
8	Plow bolt	3	RGF-6487		RGF-6487	
8	Plow bolt	2		RGF-6487		RGF-6487

13' Blade Extensions

REF.	DESCRIPTION	QTY.	1' LH EXT.	2' LH EXT.	1' RH EXT.	2' RH EXT.
0	Blade	1				
1	Extension group	1	PGU-2379	PGU-2382	PGU-2378	PGU-2381
2	Extension only	1	PGF-14598	PGF-14596	PGF-14597	PGF-14595
3	Bit	1	% RGF-2778-98	£ RGF-2778-98	* RGF-2764-99	% RGF-2778-99
4	Stiffener	1	PGF-10601	PGF-10601	PGF-10601	PGF-10601
4B	Stiffener shim	1	PGF-11502	PGF-11502	PGF-11502	PGF-11502
5	Plow bolt	11	RGF-6462			
5	Plow bolt	13		RGF-6462		
5	Plow bolt	10			RGF-6462	
5	Plow bolt	12				RGF-6462
7	Plow bolt	2	RGF-6473	RGF-6473	RGF-6473	RGF-6473
8	Plow bolt	3	RGF-6487		RGF-6487	
8	Plow bolt	2		RGF-6487		RGF-6487

Note: * Indicates 5/8" x 6" x 7' bit or cutting edge.

% Indicates 5/8" x 6" x 8' bit or cutting edge.

£ Indicates 5/8" x 6" x 9' bit or cutting edge.

Blade bit or cutting edges are always shipped less the necessary bolts and nuts for installation unless otherwise specified.

Note: For piping at
and tank for
or UD-14A engine,
see page 62

Note: For additional hydraulic
hose data, see page 68

Refer to pages 63 through
67 for Part Numbers

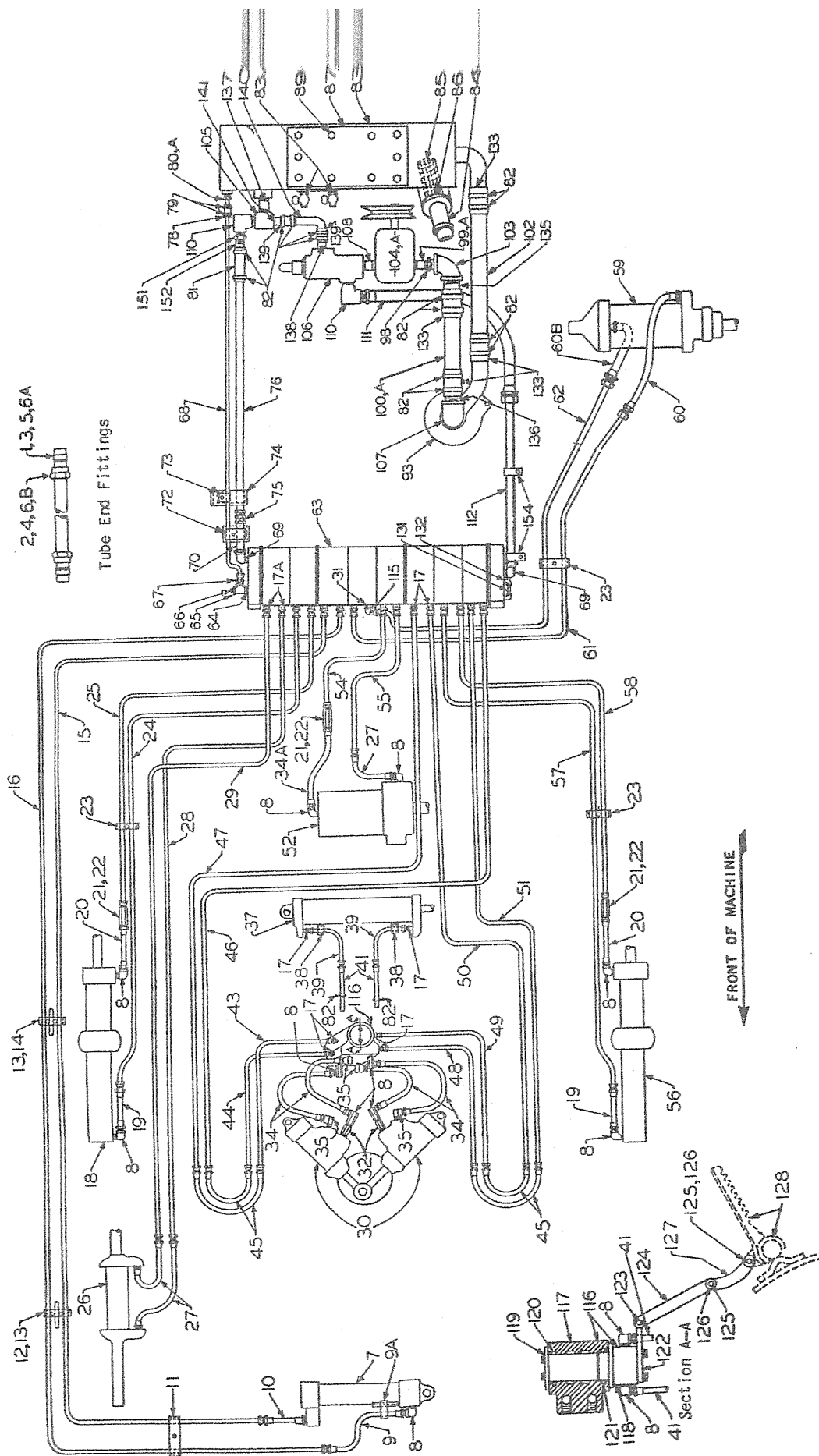
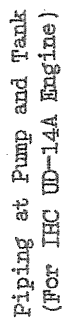
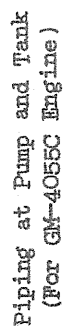
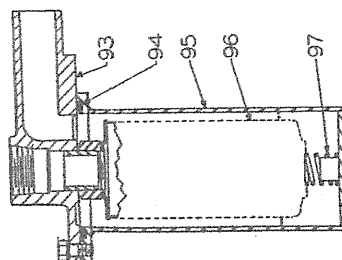


Figure 37A. Hydraulic Piping Diagram for GM-4080 Engine



FRONT OF MACHINE



Strainer Group

Note: For balance of grader piping, see page 61

Refer to Pages 63 through 67 for Part Numbers

Note: For additional hydraulic hose data, see page 68

Figure 37B. Hydraulic Piping Diagram for GM-4055C or UD-14A Engine

F. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9496-5	3	Coupling sleeve (for 3/8" OD tube)
2	PGF-9497-5	3	Coupling nut (for 3/8" OD tube)
3	PGF-9496-7	44	Coupling sleeve (for 5/8" OD tube)
4	PGF-9497-7	44	Coupling nut (for 5/8" OD tube)
5	PGF-9496-8	5	Coupling sleeve (for 3/4" OD tube)
6	PGF-9497-8	5	Coupling nut (for 3/4" OD tube)
6A	PGF-9496-10	1	Coupling sleeve (for 1" OD tube)
6B	PGF-9497-10	1	Coupling nut (for 1" OD tube)
7		1	Front steer ram
8	PGF-12282-5	15	Right angle adapter union
9	PGF-9450	1	Hydraulic hose - 72-3/4" overall length
9A	PGF-10532	1	Hose clamp
10	PGF-9449	1	Hydraulic hose - 61-1/8" overall length
11	PGF-9529	3	Pipe clamp
12	PGF-9531	1	Pipe clamp
13	PGF-9532	5	Plate
14	PGF-9533	4	Pipe clamp
15	PGF-11836	1	* Tube - 5/8" OD x 194" (approx.)
16	PGF-11837	1	* Tube - 5/8" OD x 193-1/2" (approx.)
17	PGF-10143-7	21	Coupling connector
17A	810003	3	Square head pipe plug (used only on machines not equipped with scarifier)
18		1	R.H. blade lift ram
19	PGF-9445	2	Hydraulic hose - 35-7/8" overall length
20	PGF-9444	2	Hydraulic hose - 29-1/8" overall length
21	PGF-9455	3	Check valve body
22	PGF-9454	3	Check valve poppet
	PGF-11680	10	Pipe clamp
	PGF-11834	1	* Tube - 5/8" OD x 70-1/4" (approx.)
25	PGF-11835	1	* Tube - 5/8" OD x 70-3/4" (approx.)
26		1	Scarifier ram
27	PGF-9442	3	Hydraulic hose - 22" overall length
28	PGF-11825	1	* Tube - 5/8" OD x 134" (approx.)
29	PGF-11826	1	* Tube - 5/8" OD x 134-1/2" (approx.)
30		1	Circle reverse hydraulic motor
31	530139	1	Pipe nipple
32	PGF-10893	2	Fitting
34	PGF-9441	4	Hydraulic hose - 19" overall length
34A	PGF-14942	1	Hydraulic hose - 21" overall length
35	PGF-10104-4	4	Elbow
37		1	Blade side shift ram
38	PGF-9970	2	Pipe clamp
39	PGF-10491	2	* Tube - 5/8" OD x 13-1/2" (approx.)
41	PGF-10490	2	Hydraulic hose - 31-3/8" overall length
42	PGF-14352	1	* Tube - 5/8" OD x 105-1/2" (approx.)
44	PGF-14353	1	* Tube - 5/8" OD x 102" (approx.)
45	PGF-9446	4	Hydraulic hose - 42-1/2" overall length
46	PGF-11840	1	* Tube - 5/8" OD x 153-1/4" (approx.)
47	PGF-11845	1	* Tube - 5/8" OD x 157" (approx.)
48	PGF-14355	1	* Tube - 5/8" OD x 95-1/2" (approx.)

Note: Hydraulic hose dimensions given are overall lengths including end fittings.
 * Includes two, Ref. 3, PGF-9496-7 sleeves, and two, Ref. 4, PGF-9497-7 nuts.

(continued)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
49	PGF-14354	1	* Tube - 5/8" OD x 99-3/4" (approx.)
50	PGF-11841	1	* Tube - 5/8" OD x 157" (approx.)
51	PGF-11844	1	* Tube - 5/8" OD x 158-1/4" (approx.)
52		1	High lift ram
54	PGF-11838	1	* Tube - 5/8" OD x 41-1/2" (approx.)
55	PGF-11839	1	* Tube - 5/8" OD x 44-1/2" (approx.)
56		1	L.H. blade lift ram
57	PGF-11842	1	* Tube - 5/8" OD x 68-1/4" (approx.)
58	PGF-11843	1	* Tube - 5/8" OD x 68-5/8" (approx.)
59		1	Rear steer ram
60	BRF-2293	1	Hydraulic hose - 18-7/16" overall length
60B	BRF-2299	1	Hydraulic hose - 23-5/8" overall length
61	PGF-14936	1	* Tube - 5/8" OD x 146" (approx.)
62	PGF-14935	1	* Tube - 5/8" OD x 131" (approx.)
63		1	Valve bank group
64	532046	1	Pipe nipple
65	537002	1	Tee
66	810001	3	Square head pipe plug
67	PGF-10143-5	1	Coupling connector
68	PGF-14932	1	Tube - 3/8" OD x 119-1/4" (approx.) (includes one only of Ref. Nos. 1 and 2)
69	PGF-10144-8	2	Elbow
70	PGF-9825	1	*** Tube - 3/4" OD x 7-15/16"
72	PGF-9522	2	Pipe clamp
73	PGF-9520	1	Pipe clamp
74	PGF-10046	1	Pipe clamp
75	PGF-9812-8	1	Coupling union
76	PGF-14933	1	Tube - 3/4" OD x 109-5/8" (approx.) (includes 1 only of Ref. Nos. 5 and 6)
78	PGF-12412	1	Hose
79	034105	2	Hose clamp
80	533004	1	Nipple
80A	526001	1	Reducer
81	PGF-12413	1	Hose
82	034014	14	Hose clamp
83	PGF-14516	1	Oil tank with cover, gasket and screws (includes Ref. Nos. 87, 88 and 89)
83A	ASF-5766	2	Oil tank pet cock
84	PGF-9374	1	Breather
85	PGF-14733	1	Filler screen
86	PGF-8975	1	Filler screen flange gasket
87	PGF-14530	1	Cover
88	PGF-14529	1	Cover gasket
89	742160	10	Screw - cover to tank
93	PG-2343	1	Head

Note: * Includes two, Ref. 3, PGF-9496-7 sleeves, and two, Ref. 4, PGF-9497-7 nuts.
 *** Includes two, Ref. 5, PGF-9496-8 sleeves, and two, Ref. 6, PGF-9497-8 nuts.

(continued)

94	PGF-9648-14	1	"O" ring
95	PGF-12968	1	Tank
96	PGF-12842	1	Screen
97	NES-997	1	Spring
98	526015	1	% Reducer bushing
99	BRF-1100	1	% Nipple
99A	WRF-1304	1	@ Nipple
100	PGF-15150	1	% Pipe
100A	PGF-14860	1	@ Tube
102	PGF-14857	1	Tube
103	902004	1	Elbow - reducer
104	PGF-15000	1	@ Hydraulic oil pump (see Fig. 39)
104A	PGF-15081	1	% Hydraulic oil pump (see Fig. 40)
105	PGF-12290-3	1	Tee
106	HCF-2514	1	Relief valve
107	563007	1	Elbow
108	PGF-14854	1	Nipple
110	PGF-12291-4	2	Elbow
111	PGF-14930	1	Hydraulic hose - 28-3/8" overall length
112	PGF-14934	1	Tube - 1" OD x 94" (approx.) (includes 2 of Ref. No. 5 and 1 only of Ref. Nos. 6, 6A and 6B)
115	PGF-10145-7	1	Elbow
116	PGP-1813	1	Swivel junction group (includes Ref. Nos. 117 and 118)
118		1	& Junction block
119		1	& Swivel plug
119	PGF-8989	1	Washer
120	PGF-9648-2	3	"O" ring
121	PGF-9648-6	1	"O" ring
122	PGF-9413	1	Connection plate
123	PGF-9414	1	Pin
124	PGF-9751	1	Link
125	PGF-13175	4	Pin
126	PGF-5930	4	Washer
127	PGF-10503	1	Connector
128		1	Tilting arm group
131	PGF-11054	1	** Tube - 3/8" OD x 7-3/8" (approx.)
132	PGF-10144-5	2	Elbow
133	PGF-14858	4	Hose
135	PGF-14999	1	Nipple
136	PGF-3815	1	Nipple
137	532185	1	Nipple
138	533188	1	Nipple
139	PGF-12397	2	Hose

Note: ** Includes two, Ref. 1, PGF-9496-5 sleeves, and two, Ref. 2, PGF-9497-5 nuts.
 @ Machines below 99-400.
 % Machines 99-400 and up.
 & Indicates parts not sold separately. Order Ref. No. 116 - PGP-1813
 swivel junction group from your nearest Austin-Western distributor.

(continued)

140	PGF-14861	1	% Tube
140A	PGF-14860	1	@ Tube
141	533186	1	Nipple
151	526010	1	Reducer
152	533143	1	Nipple
154	PGF-3710	2	Clip

PIPING AT PUMP AND TANK (FOR GM-4055C ENGINE)
(Refer to Figure 37B)

76	PGF-14933	1	Tube - 3/4" OD x 109-5/8" (approx.) (includes 1 only of Ref. Nos. 5 and 6)
81	PGF-12413	1	Hose
82	034014	12	Hose clamp
83		1	Hydraulic tank (for tank and related parts see Fig. 37A, Ref. Nos. 83 thru 89 inclusive)
93	PG-2343	1	Head
98	526015	1	Reducer bushing
102	PGF-14857	1	Tube
103	902004	1	Elbow - reducer
104	PGF-15000	1	@ Hydraulic oil pump (see Fig. 39)
104A	PGF-15081	1	% Hydraulic oil pump (see Fig. 40)
105	PGF-12290-3	1	Tee
106	PGF-14565	1	Relief valve
110	PGF-12291-4	2	Elbow
112	PGF-14934	1	Tube - 1" OD x 94" (approx.) (includes 2 of Ref. No. 5 and 1 only of Ref. Nos. 6, 6A and 6B)
133	PGF-14858	4	Hose
136	PGF-3815	2	Nipple
137	532185	1	Nipple
138	533188	1	Nipple
141	533186	1	Nipple
142	PGF-15028	1	Hose
143	564005	1	Elbow
144	PGF-1845	1	Nipple
145	AJF-2356	1	% Nipple
145A	HCF-2152	1	@ Nipple
146	PGF-15149	1	% Pipe
146A	PGF-14873	1	@ Pipe
147	522007	1	Elbow
148	532277	1	% Nipple
148A	532275	1	@ Nipple
149	PGF-15029	1	Hydraulic hose - 22-3/4" overall length
151	526010	1	Reducer
152	533143	1	Nipple

Note: @ Machines below 99-400.
% Machines 99-400 and up.

(continued)

(Refer to Figures 37A and 37B for Reference Numbers)

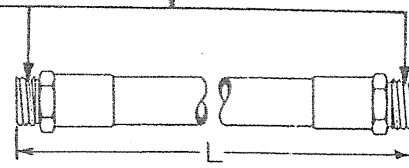
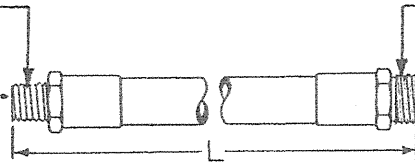
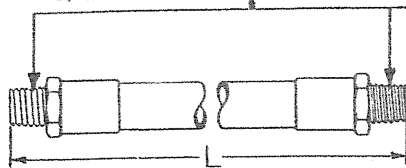
F. NO.	PART NO.	QUANTITY	DESCRIPTION
PIPING AT PUMP AND TANK (FOR IHC UD-14A ENGINE)			
(Refer to Figure 37B)			
76	PGF-14933	1	Tube - 3/4" OD x 109-5/8" (approx.) (includes 1 only of Ref. Nos. 5 and 6)
81	PGF-12413	1	Hose
82	034014	12	Hose clamp
83		1	Hydraulic tank (for tank and related parts see Fig. 37A, Ref. Nos. 83 thru 89 inclusive)
93	PG-2343	1	Head
98	526015	1	Reducer bushing
102	PGF-14857	1	Tube
103	902004	1	Elbow - reducer
104	PGF-15000	1	@ Hydraulic oil pump (see Fig. 39)
104A	PGF-15081	1	% Hydraulic oil pump (see Fig. 40)
105	PGF-12290-3	1	Tee
106	PGF-14565	1	Relief valve
107	563007	1	Elbow
108	PGF-14854	1	Nipple
110	PGF-12291-4	3	% Elbow (@ uses 2 only of this part)
111	PGF-14930	1	Hydraulic hose - 28-3/8" overall length
112	PGF-14934	1	Tube - 1" OD x 94" (approx.) (includes 2 of Ref. No. 5 and 1 only of Ref. Nos. 6, 6A and 6B)
135	PGF-14858	4	Hose
137	PGF-3815	2	Nipple
137	PGF-14854	2	% Nipple
137A	AJF-2356	2	@ Nipple
139	PGF-12397	2	Hose
140	PGF-14861	1	% Hose
140A	PGF-14860	1	@ Pipe
141	533186	2	Nipple
151	526010	1	Reducer bushing
152	533143	1	Nipple
153	PGF-15151	1	% Pipe
153A	PGF-15103	1	@ Pipe

Note: @ Machines below 99-400.
% Machines 99-400 and up.

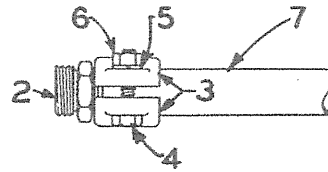
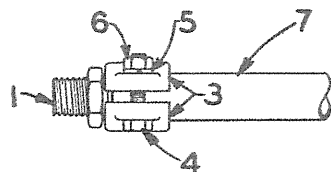
Note: In ordering hose always be governed by the overall length. See (L)

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

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



1/2" I.D. HYD. HOSE		1/2" I.D. HYD. HOSE		1/2" I.D. HYD. HOSE	
Length (L)	Part No.	Length (L)	Part No.	Length (L)	Part No.
19"	PGF-9441	18-7/16"	BRF-2293	42-1/2"	PGF-9446
21"	PGF-14942	22"	PGF-9442		
29-1/8"	PGF-9444	23-5/8"	BRF-2299		
		31-3/8"	PGF-10490		
		35-7/8"	PGF-9445		
		61-1/8"	PGF-9449		
		72-3/4"	PGF-9450		
3/4" I.D. HYD. HOSE		3/4" I.D. HYD. HOSE		3/4" I.D. HYD. HOSE	
		22-3/4"	PGF-15029		
		28-3/8"	PGF-14930		

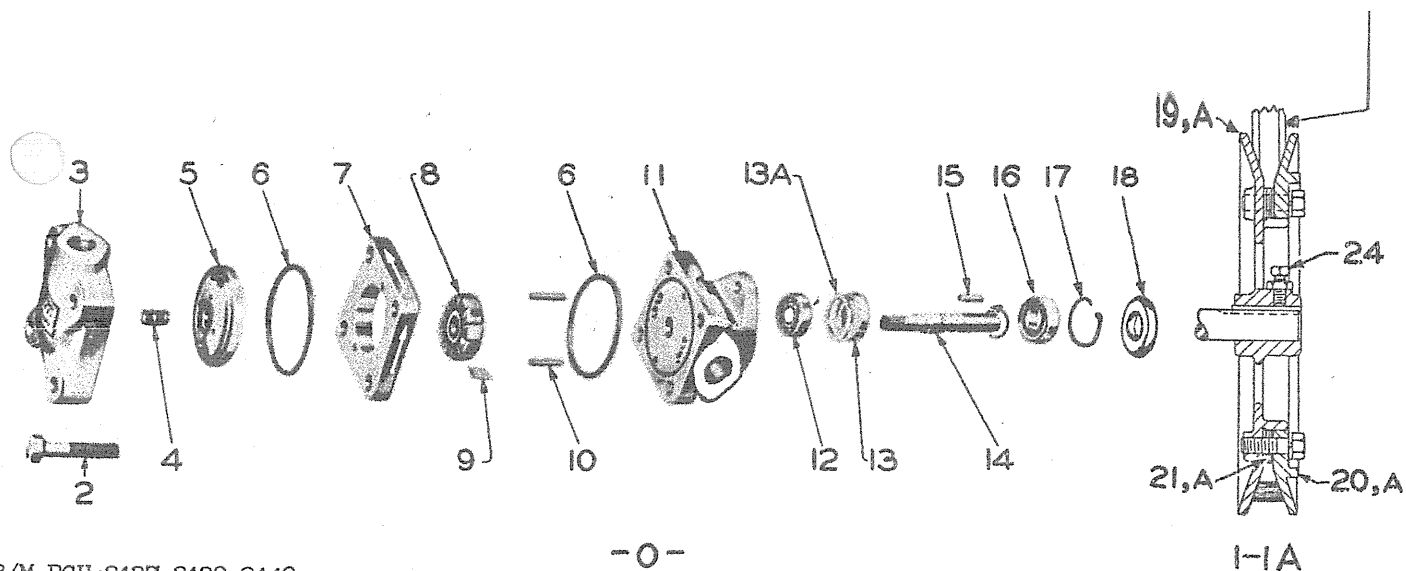


Field Service Hydraulic Hose and Connections

REF. NO.	PART NO. (1/2" I.D. HOSE)	PART NO. (3/4" I.D. HOSE)	QTY. PER HOSE END	DESCRIPTION
1	HCF-368 (1/2"-14 NPTF)	HCF-334 (3/4"-14 NPTF)	1	Stem
2	PGF-9946 (15/16"-16UN THD.)	PGF-15648 (1-5/16"-16UN THD.)	1	Stem
3	PGF-2077	HC-47	2	Clamp
4	742166	742323	2	Cap screw
5	778010	778011	2	Lock washer
6	722002	722003	2	Hex nut
7	1/2" I.D.	3/4" I.D.		Hydraulic hose-specify length wanted

Make up your own hose by keeping a supply of hydraulic hose (in random length) and hose clamps on hand. To determine length of hose required measure the overall length of the hose you wish to duplicate and deduct 2". Cut hose with a high speed hacksaw blade having 18 or 24 teeth per inch.

Figure 38. Hydraulic Hose Chart



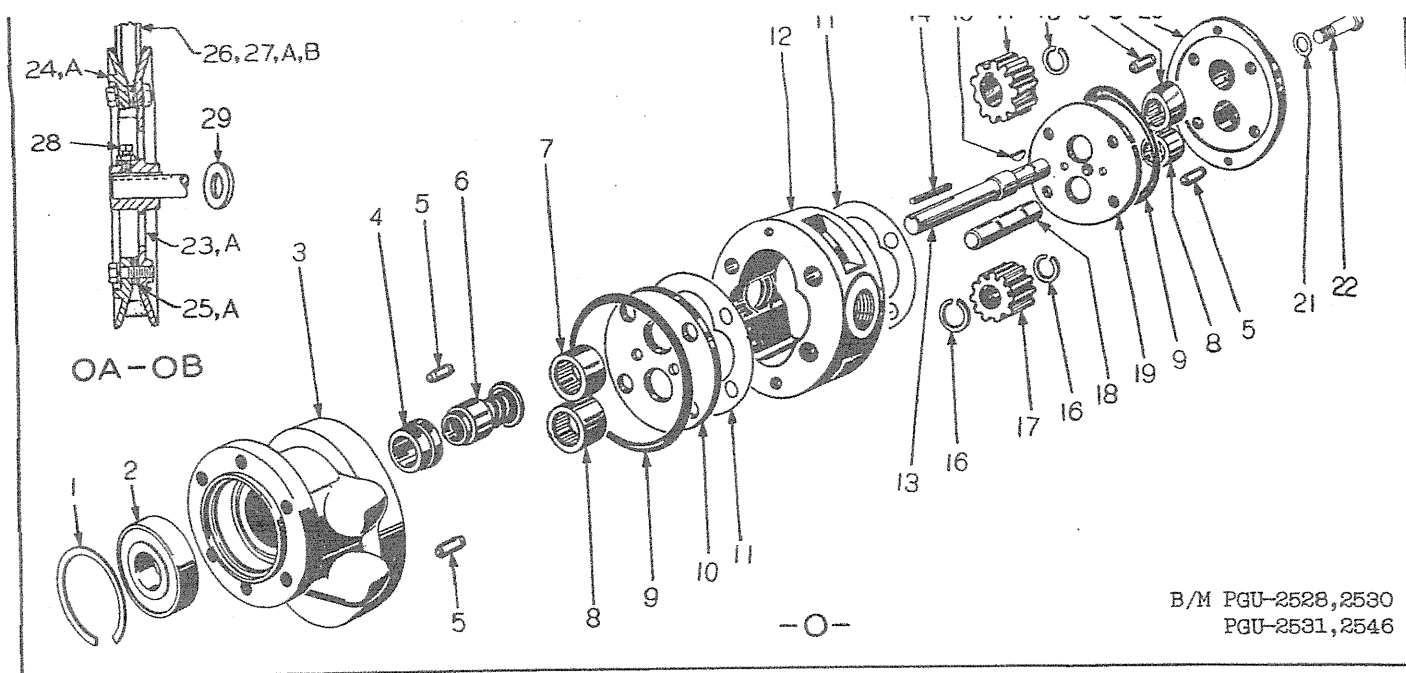
3/M PGU-2437, 2439, 2440

Figure 39. Hydraulic Pump and Pulley
(For GM-4080, GM-4055C or UD-14A Engine)
(Machines below 99-400)

EF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGF-15000	1	Pump group - model V230-8-1A-12-S68 or -S80 (RH rotation)(includes Ref. 2 to 17 inclusive)
1	PGUS-9213	1	* Pulley group (includes Ref. 19,20,21 and 24)
1A	PGUS-9161	1	%@ Pulley group (includes Ref. 19A,20A,21A & 24)
2	503201	4	Cap screw
3	503116	1	Cover
4	503087	1	Spring
5	503283	1	Pressure plate
6	503145	2	Seal ring
7	503275	1	Ring
8	503203	1	Rotor
9	503172	1	Vane kit (12 pcs.)
10	503192	2	Pin
11	503284	1	Body
12	503008	1	Bearing
13	503101	1	Oil seal
13A	503105	1	Oil seal spacer
14	503093	1	Shaft
15	503032	1	Shaft key
16	503064	1	Bearing
17	503083	1	Snap ring
18	PGF-13623	1	Felt
19	PG-1907	1	* Pulley - inner half
20	PG-1908	1	* Pulley - outer half
21	PGF-10478	As req'd.	* Shim (6 supplied in PGUS-9213 pulley group)
19A	PG-921	1	%@ Pulley - inner half
20A	PG-920	1	%@ Pulley - outer half
21A	PGF-3923	As req'd.	%@ Shim (4 supplied in PGUS-9161 pulley group)
22	PGF-15156	1	* "V" belt
23	PGF-15157	1	% "V" belt
24	PGF-15155	1	@ "V" belt
24	755030	1	Set screw - cup point

Note: * Used with GM-4080 engine.
% Used with GM-4055C engine.

@ Used with UD-14A engine.



B/M PGU-2528,2530
PGU-2531,2546

Figure 40. Hydraulic Pump and Pulley
(For GM-4080, GM-4055C or UD-14A Engine)
(Machines 99-400 and up)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGF-15081	1	Pump group - model 1515T19B1 (includes Ref. Nos. 1 to 22 inclusive)
OA	PGUS-9213	1	* Pulley group (includes Ref. Nos. 23,24,25 and 28)
OB	PGUS-9161	1	% Pulley group (includes Ref. Nos. 23A,24A,25A and 28)
1	513066	1	Snap ring
2	513067	1	Bearing
3	513068	1	Adapter
4	513069	1	Seal seat
5	513070	4	Dowel pin
6	513071	1	Seal assembly
7	513037	1	Bearing
8	513036	3	Bearing
9	513072	2	Seal ring
10	513073	1	Wear plate
11	513074	As req'd.	Gasket
11	513075	As req'd.	Gasket
12	513076	1	Housing
13	513077	1	Drive shaft
14	513078	1	Key
15	513034	1	Key
16	513053	3	Snap ring
17	513079	2	Gear
18	513080	1	Driven shaft
19	513081	1	Wear plate
20	513082	1	Cover
21	513083	4	Washer
22	513084	4	Cap screw
23	PG-1907	1	* Pulley - inner half
24	PG-1908	1	* Pulley - outer half
25	PGF-10478	As req'd.	* Shim (6 supplied in PGUS-9213 pulley group)
23A	PG-921	1	% Pulley - inner half
24A	PG-920	1	% Pulley - outer half
25A	PGF-3923	As req'd.	% Shim (4 supplied in PGUS-9161 pulley group)
26	PGF-15156	1	* "V" belt
27	PGF-15157	1	% "V" belt
27A	PGF-15155	1	@ "V" belt (machines below 99-884)
27B	PGF-15157	1	@ "V" belt (machines 99-884 and up)
28	755030	1	Set screw - cup point
29	PGF-13623	1	Felt

Note: * Used with GM-4080 engine.
% Used with GM-4055C engine.

@ Used with UD-14A engine.

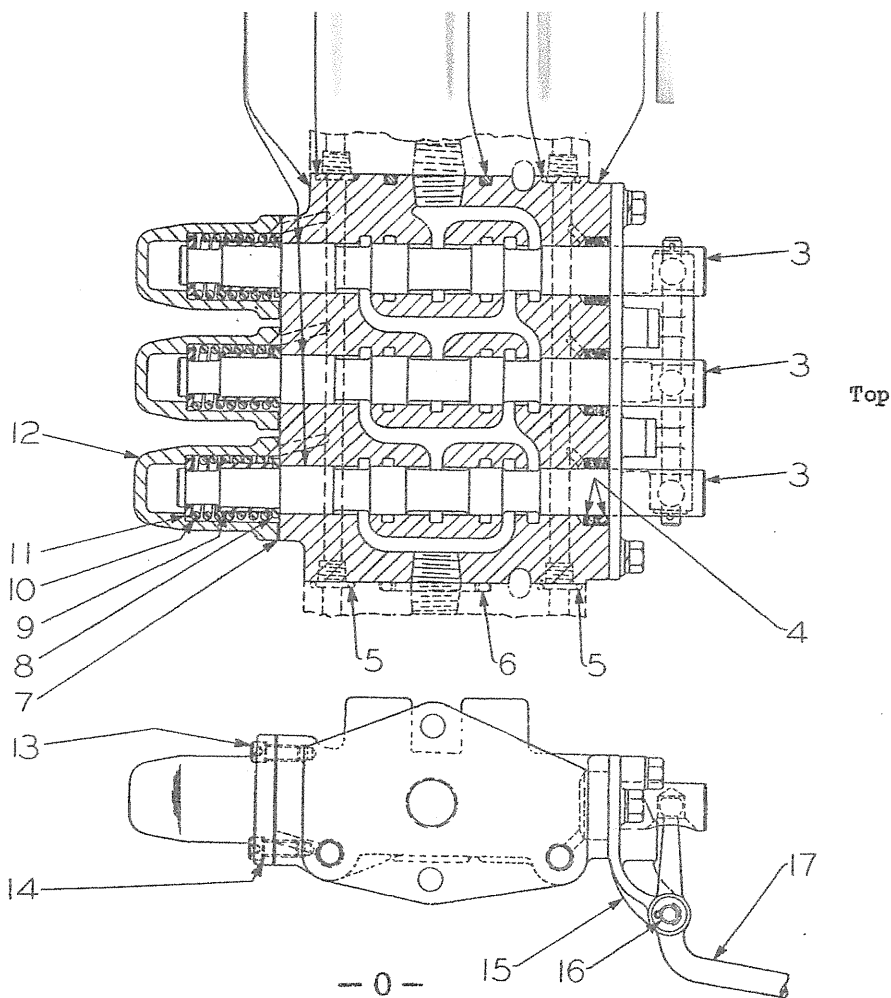
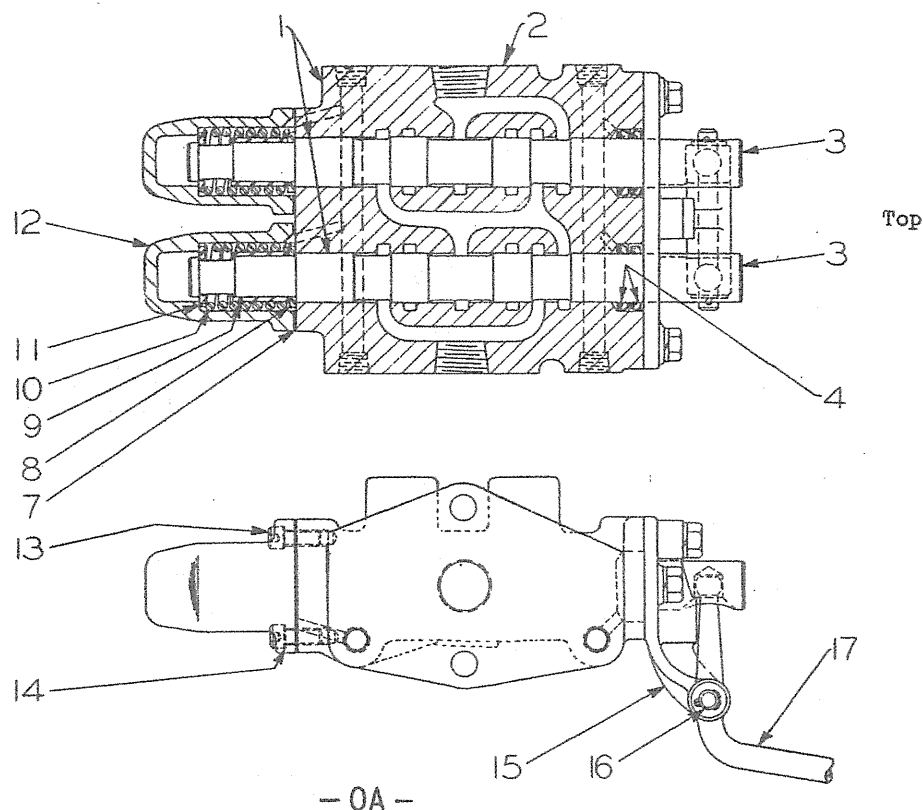


Figure 41. Hydraulic Control Triple Valve

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
	PGU-9233	1	Valve bank group (consists of two PGU-8158 and one PGU-8157 bolted together)
0	PGU-8158	1	Triple valve assembly (includes Ref. Nos. 1, 4, and 7 to 15 inclusive)
1	PGPA-1931	1	Body with triple valve plugs (includes Ref. Nos. 2 and 3)
2		1	* Valve body
3		3	* Valve plug (movable)
4	PGF-12365	6	Oil seal
5	PGF-9648-25	4	"O" ring
6	PGF-9648-2	2	"O" ring
7	ASF-5105	3	Valve spring cap gasket
8	PGF-8785	3	Washer
9	PGF-8781	3	Sleeve
10	PGF-8775	3	Valve spring
11	PGF-8780	3	Washer
12	AS-1010	3	Valve spring cap
13	819183	12	Cap screw - hollow head
14	HCF-373	12	Cap screw washer
15	PG-1863	1	Valve lever bracket
16	PGF-10105	1	Pin
17		3	Control lever

Note: * Indicates parts not sold separately. Order Ref. 1, PGPA-1931, body with triple valve plugs, from your nearest Austin-Western distributor.



B/M PGU-8157

Figure 42. Hydraulic Control Twin Valve

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
	PGU-9233	1	Valve bank group (consists of two PGU-8158 and one PGU-8157 bolted together)
OA	PGU-8157	1	Twin valve assembly (includes Ref. Nos. 1, and 4 to 15 inclusive)
1	PGPA-1930	1	Body with twin valve plugs (includes Ref. Nos. 2 and 3)
2		1	* Valve body
3		2	* Valve plug (movable)
4	PGF-12365	4	Oil seal
7	ASF-5105	2	Valve spring cap gasket
8	PGF-8785	2	Washer
9	PGF-8781	2	Sleeve
10	PGF-8775	2	Valve spring
11	PGF-8780	2	Washer
12	AS-1010	2	Valve spring cap
13	819133	8	Cap screw - hollow head
14	HCF-373	8	Cap screw washer
15	AS-1011	1	Valve lever bracket
16	ASF-5109	1	Pin
17		2	Control lever

Note: * Indicates parts not sold separately. Order Ref. 1, PGPA-1930, body with twin valve plugs, from your nearest Austin-Western distributor.

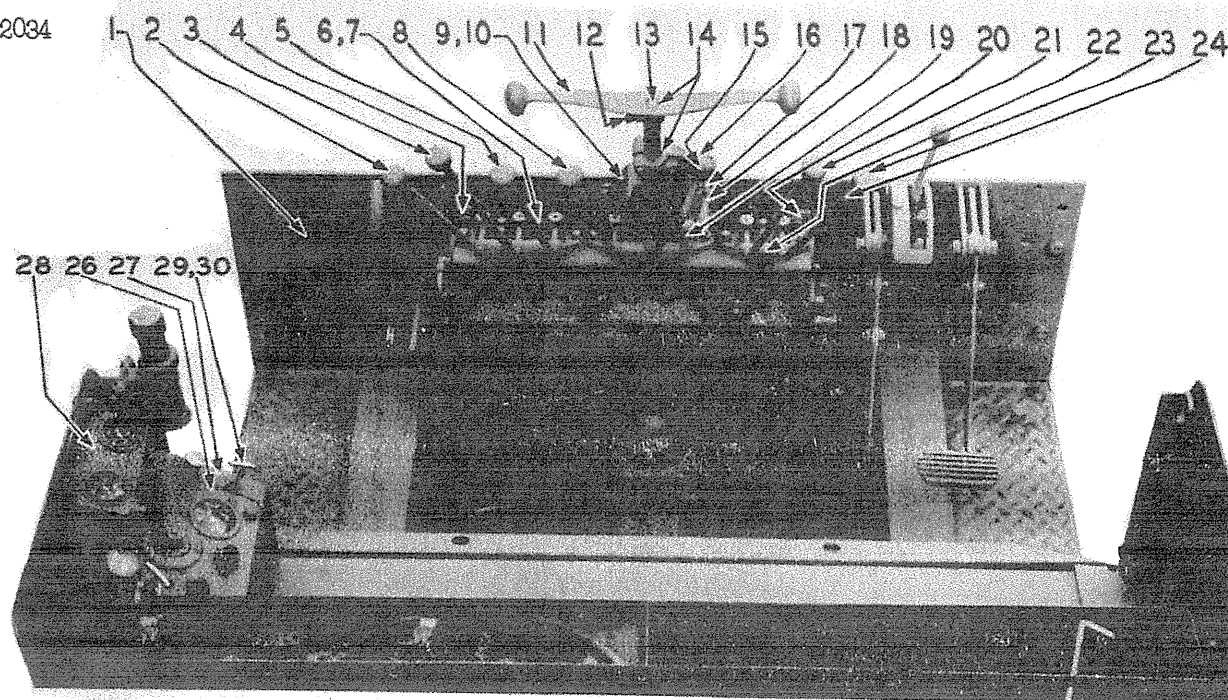


Figure 43. Hydraulic Valve Controls

NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-15193	1	Instruction plate
2	PGF-10886	1	Circle reverse valve lever
3	PGF-10883	1	L.H. blade lift valve lever
4	PGF-12615	1	Valve bank bracket - left hand
5	PGF-10885	1	Blade side shift valve lever
6	PGF-12043	1	* Valve bank cover plate
7	PGF-10754	16	* Valve bank cover plate felt
8	PGF-10884	1	High lift valve lever
9	PG-1785	1	Steering column
10	PGF-9406	2	* Steering column bushing
11	PG-1386	1	Steering lever
12	755053	1	Steering lever set screw - cup point
13	PGF-9404	1	Steering column shaft
14	111009	3	Woodruff key
	PG-1786	1	* Steering shaft collar
	755032	2	* Steering shaft collar set screw - cup point
15	PGF-10887	1	Rear steer valve lever
16	PG-1787	1	Steering shaft lever
17	PGF-10975	2	Ball and socket joint
18	PGF-9405	1	Steering link adjusting rod
19	PGF-9407	1	Steering valve lever
20	PGF-12616	1	Valve bank bracket - right hand
21	PGF-10882	1	R.H. blade lift valve lever
22	HTF-382	1	* Valve lever spacer (used only on machines not equipped with scarifier)
23	PG-1400	7	Valve lever ball
24	PGF-10881	1	Scarifier valve lever
26	PGF-11231	1	Instrument panel
27	PGF-11250	1	Instrument panel support
28	PGF-14424	1	Instrument panel - torque converter (for GM-4080 engine)
29	PGF-13569	1	Engine fuel shut-off - shown (for GM-4080 engine)
30	BRF-2114	1	* Choke control wire (for UD-14A engine)

Note: * Indicates parts not illustrated.

GM-4000 OR GM-4055C ENGINE AND ATTACHING PARTS

PART NO.	QUANTITY	DESCRIPTION
PGF-14675	1	Engine with torque converter - GM-4080 (see engine parts catalog)
PGF-14789	1	Engine - GM-4055C (uses 3/8" dia. bolts in flywheel housing and PGFA-10910 clutch) (no longer furnished. Order PGF-15197 engine and PGF-14503 clutch) (machines below 99-584) (see engine parts catalog)
PGF-15053	1	Engine - GM-4055C (uses 3/8" dia. bolts in flywheel housing) (no longer furnished. Order PGF-15197 engine) (machines 99-584 to 99-790 inclusive) (see engine parts catalog)
PGF-15197	1	Engine - GM-4055C (uses 7/16" dia. bolts in flywheel housing) (machines 99-792 and up) (see engine parts catalog)
PG-2124	1	Pump drive pulley (GM-4080 engine)
PGF-13075	10	Stud - pump pulley (GM-4080 engine)
PGF-15156	1	Hydraulic pump belt (GM-4080 engine)
PGF-15157	1	Hydraulic pump belt (GM-4055C engine)
PGF-13820	1	Generator belt
PGF-14507	1	Engine support - front (GM-4080 engine)
PGF-14549	1	Engine support - front (GM-4055C engine)
PGF-12977	2	Stud - front engine support
WRF-1262	2	Bolt - front engine support
PGF-14519	2	Engine support - rear (on engine)
PGF-14520	2	Engine support - rear (on frame)
PGF-11326	16	Engine support stud
737005	2	Slotted nut
PGF-15086	1	Bolt - engine support (rear R.H.)
PGF-14877	3	Capscrew - engine support (rear)
PGF-5652	1	Rest back
PGF-10111	2	Rest back support
PGF-11232	1	Tool and battery box - regular
PGF-15481	1	Tool and battery box (special order - for lock)
PGF-11627	2	Battery box lock (special order)
PGF-15309	1	Tool and battery box cover - regular
PGF-15482	1	Tool and battery box cover (special order - for lock)
740003	2	Wing nut - battery box cover
PGF-11248	2	Battery spacer
PGF-11710	4	Bumper - battery terminal
PGF-11246	2	Base - battery
PGF-14742	1	Battery box partition
PGF-11638	1	Seat cushion
PGF-12000	1	Seat cushion - air foam rubber (special order)
PGF-10114	1	Cab tie plate
PGF-14741	1	Fuel tank
PGF-10808	4	Fuel tank cushion
PGF-14505	1	Fuel tank support

(continued)

RADIATOR, CONNECTIONS AND ATTACHING PARTS

PART NO.	QUANTITY	DESCRIPTION
PGF-14490	1	Radiator (GM-4080 engine) (see Fig. 47)
PGF-14526	1	Radiator (GM-4055C engine) (see Fig. 47)
PG-2296	1	Elbow - lower
PG-2297	1	Elbow - upper
PGF-14564	1	Cover - lower outlet
PGF-10792	3	Gasket - upper and lower elbows
WRF-760	2	Hose - upper and lower
PG-2353	1	Elbow - oil cooler inlet (GM-4080 engine)
PG-2128	1	Elbow - oil cooler inlet (GM-4055C engine)
PGF-14523	2	Tie rod - radiator
O34014	4	Hose clamp
PGF-9520	2	Clip - tail light wires

AIR CLEANER AND ATTACHING PARTS

PGF-15425	1	Air cleaner (see Fig. 46)
PGF-12479	1	Pre-cleaner - air cleaner stack
PGF-15275	1	Stack extension - air cleaner
PGF-15552	1	Bracket - air cleaner
PGF-15079	1	Plate - air cleaner support
PGF-15417	2	Band - air cleaner
PGF-15429	1	Tube - air cleaner
PGF-12206	1	Adapter - air cleaner (engine blower end)
PGF-15072	1	Hose - air cleaner (3-1/2" ID x 4")
PGF-13910	1	Hose - air cleaner (4" ID x 4")
HCF-4452-6	8	Clamp - air cleaner hose

MUFFLER AND ATTACHING PARTS

PGF-11167	1	Muffler
PGF-11243	1	Rain cap - muffler (special order)
PGF-12640	1	Clamp - muffler
PGF-12639	1	Elbow - muffler
PGF-12774	1	Exhaust pipe
MGF-2950	1	Clamp - exhaust pipe
PGF-12778	4	Stud - exhaust pipe
921005	4	Nut - exhaust pipe stud (brass)

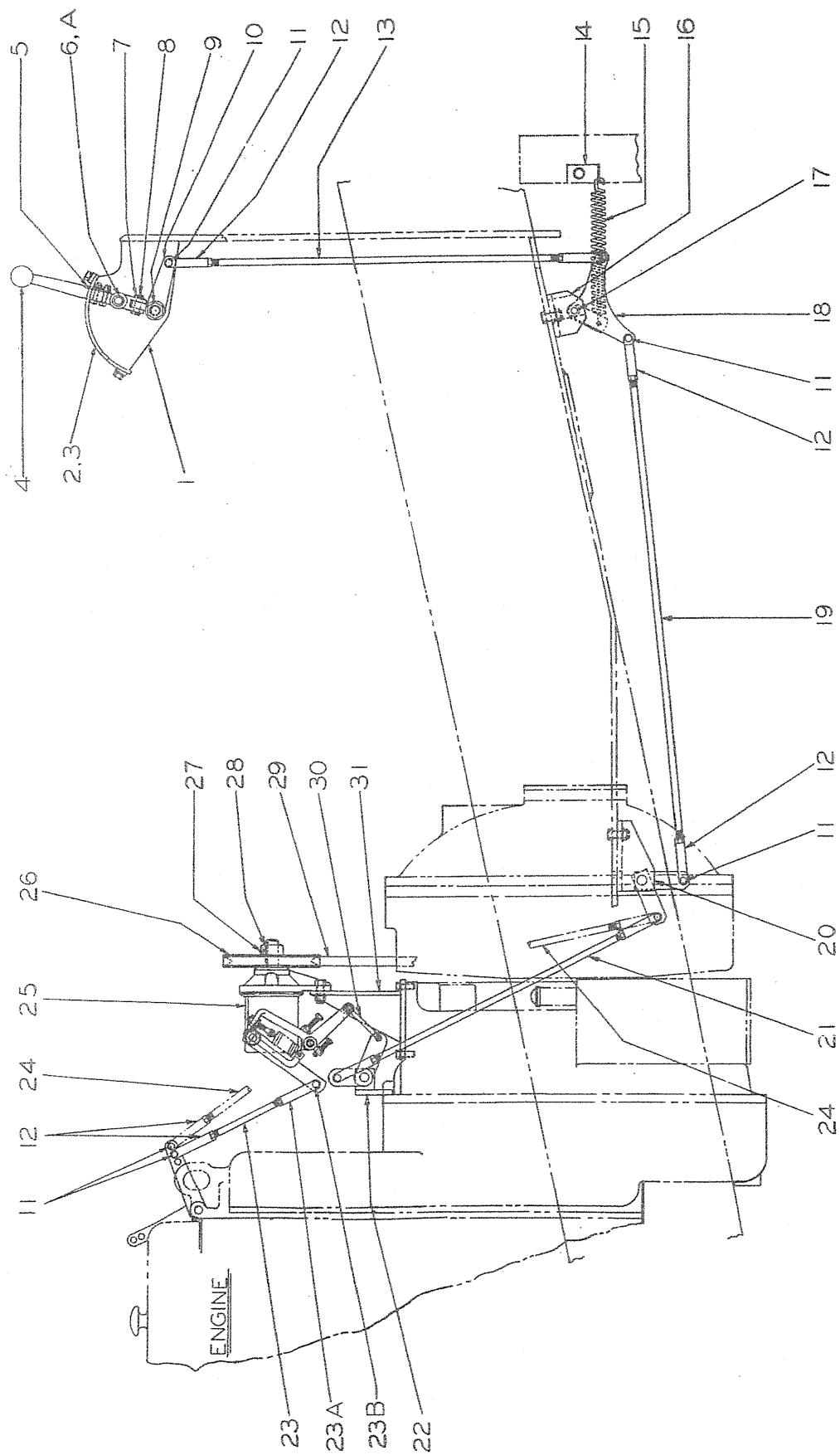


Figure 44. Governor Control Mechanism
(For GM-4080 or GM-4055C Engine)

REF. NO.	PART NO.	QUANTITY	
1	PGF-11500	1	Governor control lever support (welds on)
2	PGF-13703	1	* Ratchet
3	PGF-12382	1	% Ratchet
4	PG-2100	1	Governor control lever
5	PGF-12415	1	Ratchet clip
6	PGF-12377	1	Pin
6A	MSF-854	1	Spring
7	762004	1	Washer
8	783004	1	Rod end pin
9	PGF-13949	1	Throttle lever pivot
10	PG-2098	1	Arm - throttle handle
11	783003	7	Rod end pin
12	782003	7	Rod end fork
13	PGF-14728	1	Control rod
14	PGF-15058	1	Spring support
15	PGF-268	1	Spring
16	PGF-13887	1	Bell crank bracket
17	PGF-11471	1	Bell crank cross pin
18	PGF-15060	1	Bell crank
19	PGF-14580	1	Control rod
20	PGF-14426	1	Throttle linkage bracket
21	PGF-14579	1	* Control rod
22	PGF-14683	1	* Governor control rod support
23	PGF-14578	1	* Control rod
23A	782002	1	* Rod end fork
23B	783002	1	* Rod end pin
24	PGF-14788	1	% Control rod
25	PGF-14676	1	* Tail-shaft governor group (model GC-3922)
26	PGF-14677	1	* Pulley
27	753053	1	* Set screw
28	PGF-14783	1	* Key
29	PGF-15038	1	* Belt
30	PGF-14581	1	* Governor control rod
31	PGF-14679	1	* Governor support

Note: * Used with GM-4080 engine.
 % Used with GM-4055C engine.

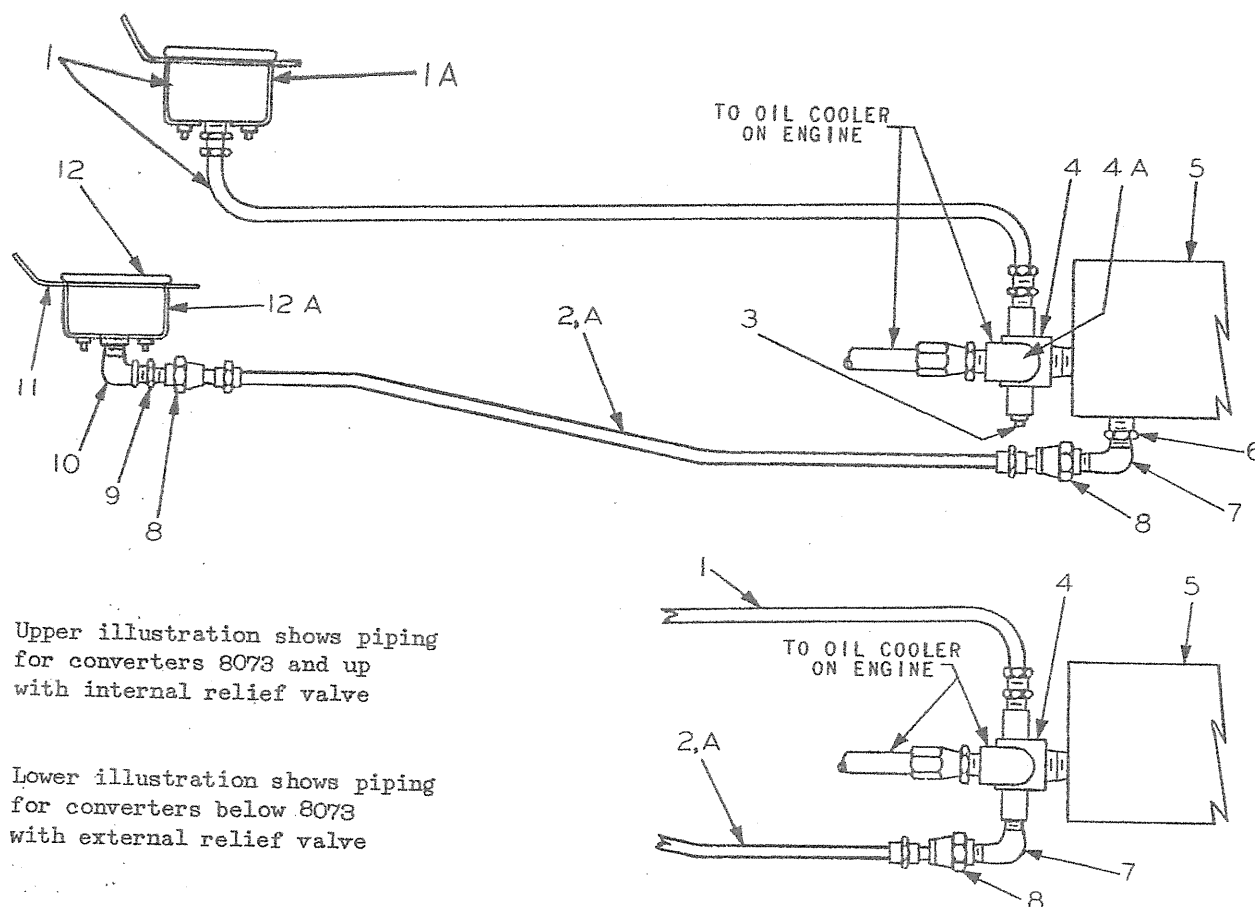
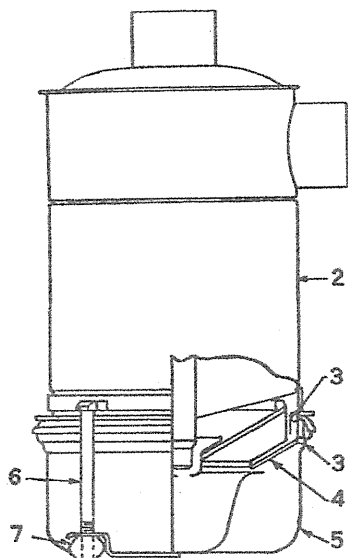


Figure 45. Torque Converter Instruments and Connections
(For GM-4080 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-13955	1	Oil temperature gauge
1A	PGF-14790	2	Clamp - oil temperature gauge
2	PGF-14546	1	Hose - torque converter oil pressure gauge (includes Ref. Nos. 2A and 8)
2A	451013	1	Hose - 5/16" ID x 54-7/8" long
3	810001	1	Pipe plug
4	PGF-14636	1	Tee
4A	563854	1	Street ell
5		1	Torque converter
6	526008	1	Reducer bushing
7	835004	1	Elbow
8	PGF-13619-7	2	Hose fitting - female thread
9	840003	1	Connector
10	563001	1	Street ell
11		1	Instrument panel
12	PGF-13954	1	Oil pressure gauge
12A	PGF-14587	1	Clamp - oil pressure gauge

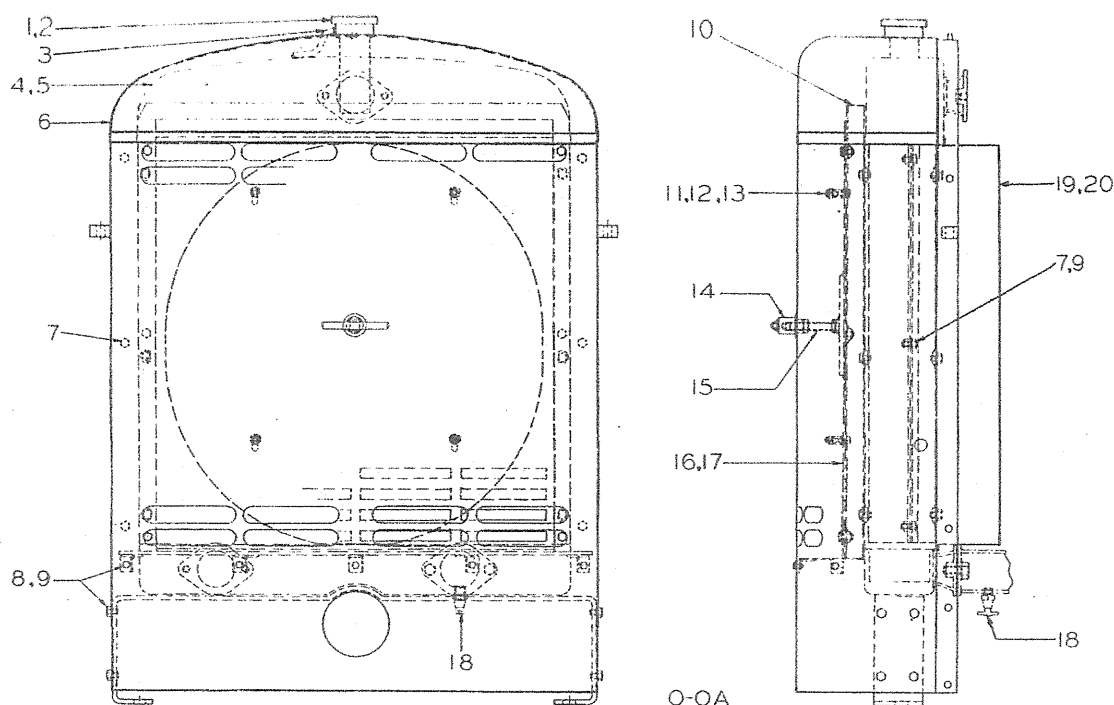


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Figure 46. Air Cleaner
(For GM4-71 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-15425	1	Air cleaner group (includes Ref. 2 to 6 inclusive)
2	035031	1	* Body
3	035030	2	Rubber gasket
4	035032	1	Tray
5	035035	1	Oil cup
6	035033	2	Side rod (includes Ref. No. 7)
7	035034	2	Wing nut

Note: * If replacing Ref. 2 Body, we
Recommend purchasing a new
PGF-15425 air cleaner complete.



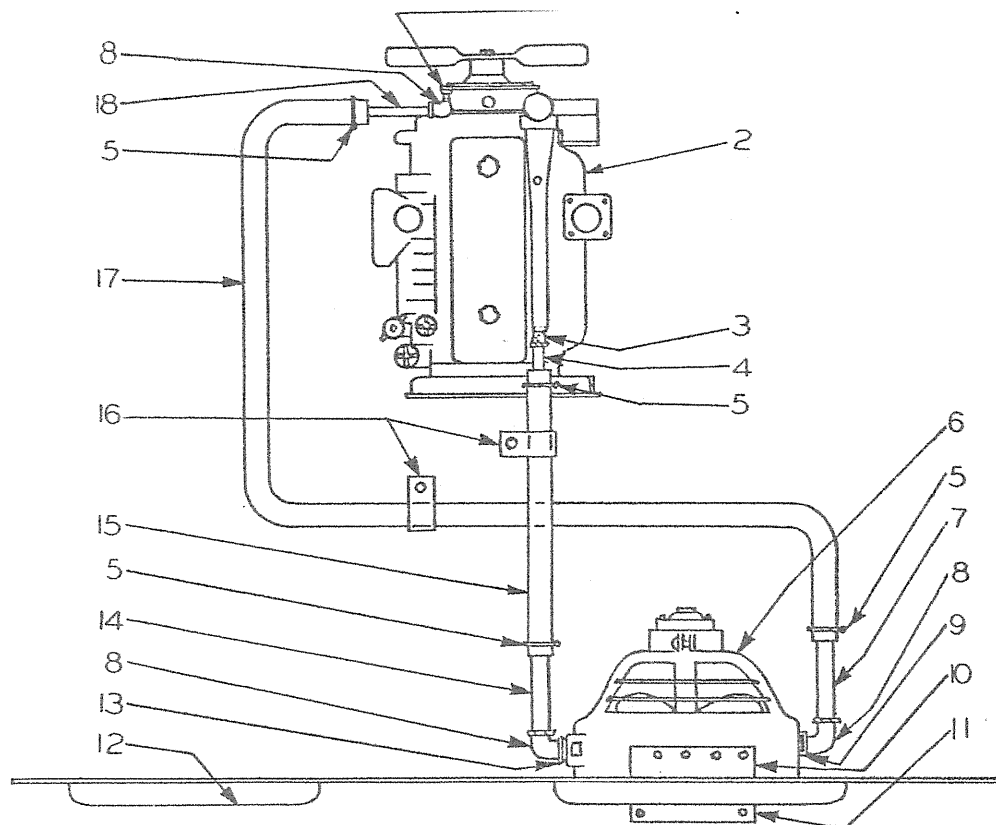
B/M PGU-2511-A

Figure 47. Radiator and Shutter
(For GM-4080, GM-4055C or UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGF-14490	1	*@ Radiator group (includes Ref. Nos. 1 to 9 inclusive except Ref. No. 5)
0	PGF-14526	1	% Radiator group (includes Ref. Nos. 1 to 9 inclusive except Ref. No. 4)
OA	PGU-2511-A		Radiator shutter group (special order) (includes Ref. Nos. 10 to 17 inclusive)
1	033007	1	Radiator cap
2	562044	1	Radiator cap washer
3	562045	1	Overflow tube
4	562043	1	*@ Radiator (core and tanks)
5	562050	1	% Radiator (core and tanks)
6	562046	1	Radiator shell
7	562047	6	Hex head bolt
8	562048	13	Hex head bolt
9	562049	19	Lockwasher
10	PGF-14856	1	Support-radiator shutter
11	PGF-6505	4	Spring
12	PGF-15217	4	Spring bolt
13	727001	4	Castellated nut
14	PGF-15218	1	Shutter handle
15	PGF-15206	1	Stud
16	PGF-15208	1	Plate - outer
17	PGF-15244	1	Plate - inner
18	PGF-15087	1	@ Drain cock
19	PGF-14566	1	*% Fan shroud
20	PGF-14567	1	@ Fan shroud

Note: * Used with GM-4080 engine.
% Used with GM-4055C engine.

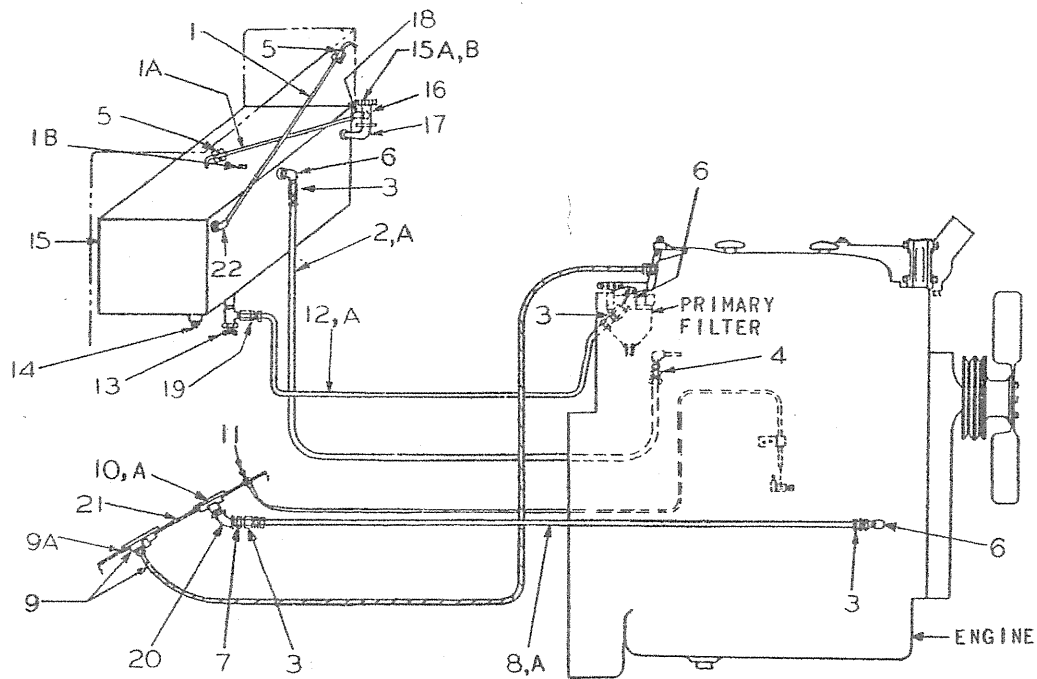
@ Used with UD-14A engine.



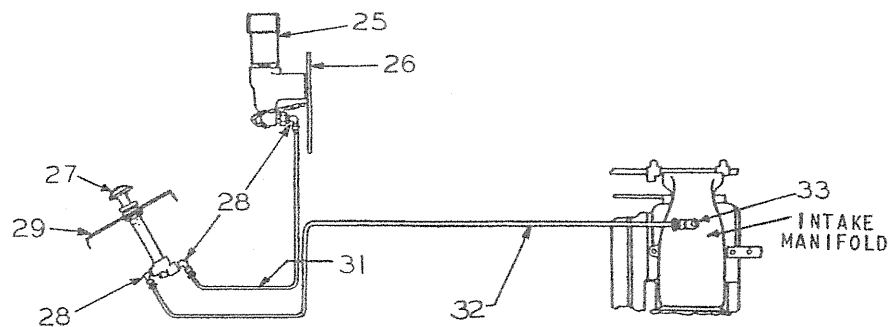
B/M PGU-2436

Figure 48. Heater Piping Diagram
(For GM4-71 Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	Oil cooler housing
2		1	Engine
3	884004	1	Reducer bushing
4	556101	1	Nipple
5	034010	4	Hose clamp
6	PGF-12649	1	Heater - 12 volt
7	PGF-12565	1	Pipe
8	563852	3	Elbow
9	PGF-13987	1	Face bushing
10	PGF-15077	1	Heater support angle
11	PGF-15076	1	Heater support plate
12	PGF-14498	1	Cab tie plate
13	884008	1	Reducer bushing
14	556121	1	Pipe nipple
15	PGF-13963	1	Hose
16	PGF-9960	2	Clip
17	PGF-15078	1	Hose
18	556095	1	Pipe nipple



Fuel and Oil Lines

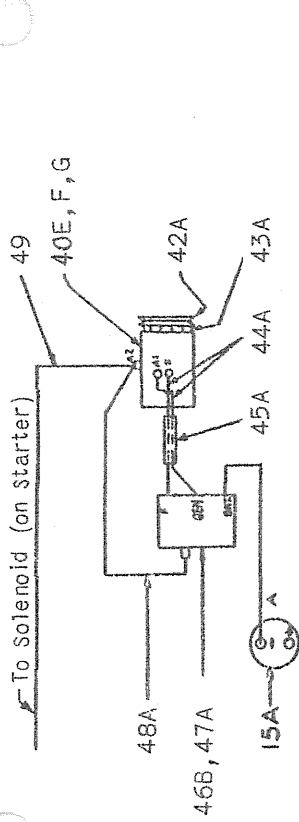


Ether Starting System

Figure 49. Fuel System
(For GM-4080 or GM-4055C Engine)

1	PGF-14571	1	Breather tube
1A	818005	1	Fuel tank plug
1B	PGF-14395	1	Fuel hose - return line (includes Ref. No. 2A, one Ref. No. 3 and Ref. No. 4)
2	451013		Hose - 5/16" ID x 39-3/8" long
2A	PGF-13619-3	4	Hose fitting - female thread
3	PGF-13617-3	1	Hose fitting - male thread
4	PGF-13173	2	Breather tube clip
5	835006	3	Elbow
6	840005	1	Connector
7	PGF-14524	1	Hose - engine oil pressure gauge (includes Ref. No. 8A and two Ref. No. 3)
8	451013		Hose - 5/16" ID x 73-5/8" long
8A	PGF-9549	1	Water temperature gauge
9	PGF-9280	1	Gauge gasket
9A	TF-1530	1	Engine oil pressure gauge
10	PGF-9282	1	Gauge gasket
10A	PGF-13569	1	Engine emergency shut-off control
11	PGF-14668	1	Fuel hose - tank to primary filter (includes Ref. No. 12A, one Ref. No. 3 and Ref. No. 19)
12	451013		Hose - 5/16" ID x 35-1/8" long
12A	PGF-9338	1	Needle valve
13	816003	1	Drain plug
14	PGF-14741	1	Fuel tank
15	PGF-10808	4	Fuel tank cushion (not illustrated)
15A	PGF-11696	1	Filler tube cap
15B	TF-1161	1	Filler tube cap gasket
16	PGF-13806	1	Filler neck
17	565009	1	Filler neck elbow
18	835007	1	Breather tube elbow
19	PGF-13619-6	1	Hose fitting - female thread
20	568001	1	Elbow
21		1	Instrument panel
22	835008	1	Breather tube elbow
25	PGF-12309	1	Puncturing tool
26	PGF-14756	1	Bracket
27	PGF-11400	1	Engine primer
28	PGF-11523	3	Elbow with nut
29		1	Instrument panel support
31	PGF-15054	1	Tube - puncturing tool to primer
32	PGF-15071	1	Tube - primer to intake manifold
33	PGF-11414	1	Elbow nozzle

Refer to Pages 85 and
86 for Part Numbers



Wiring for Extra Heavy Duty Generator

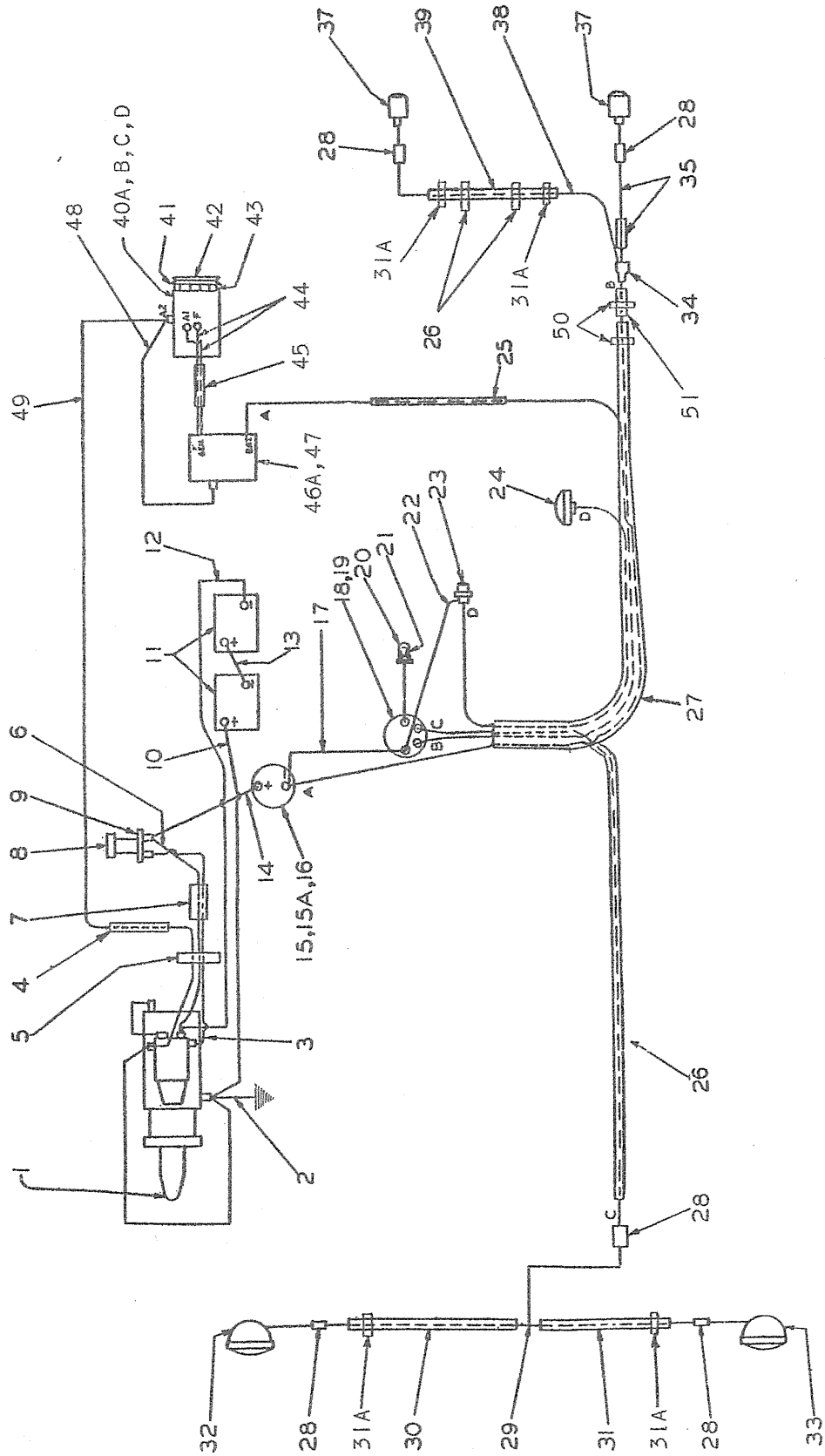


Figure 50. Wiring Diagram for GM4-71 Engine

1	PGF-13795	1	STARTING MOTOR (Delco-Remy No. 1102983)
2	PGF-13894	1	Ground strap
3	PGF-14725	1	Wire - switch to starter
4	PGF-14412	1	Loom - starter to generator wire
5	BRF-2206	1	Clamp (for GM-4055C engine)
6	PGF-14562	1	Wire - switch to starter
7	PGF-14659	1	Loom - switch to starter wire
8	ASF-7071	1	Starter button
9	PGF-11327	1	Starter switch plate
10	PGF-14662	1	Cable - battery (positive) to starter
11	PGF-10122	2	Battery - 6 volt (19 plate)
	PGF-11710	4	Bumper - battery terminals (not illustrated)
12	PGF-14661	1	Cable - battery (negative) to starter solenoid
13	PGF-10118	1	Cable - jumper
14	PGF-13902	1	Wire - starter switch to ammeter
15	PGF-9349	1	* Ammeter (30/30)
15A	ASF-6273	1	** Ammeter (60/60)
16	PGF-9282	1	Ammeter gasket
17	PGF-9506	1	Wire - ammeter to light and ignition switch
18	PGF-9351	1	Light and ignition switch
19	PGF-9279	1	Switch gasket
20	ASF-5372	1	Dash light (less bulb)
21	PGF-11968	1	Dash light bulb (3CP-SC;12-16V)
22	PGF-9547	1	Wire - switch to horn button
23	PGF-9343	1	Horn button
24	PGF-9342	1	Horn
25	PGF-11697	1	Loom - regulator wire
26	PGF-9520	2	Clip - tail light wire loom
27	PGF-12662	1	Wiring harness assembly
28	PGF-10421	5	Connector
29	PGF-12654	1	Wire - connector to headlights
30	PGF-11986	1	Loom to right hand headlight
31	PGF-11987	1	Loom to left hand headlight
31A	PGF-10046	4	Clip - headlights and tail light loom
32	PGF-11983	1	Headlight - right hand
33	PGF-11982	1	Headlight - left hand } (see Fig. 51)
34	PGF-12627	1	Connector
35	PGF-12653	1	Wire, with HCF-2777 loom - connector to left hand tail light connector
37	PGF-14849	2	Tail light
38	PGF-12652	1	Wire - connector to right hand tail light connector
39	PGF-11967	1	Loom - right hand tail light wire
40	PGF-13793	1	** Generator (standard) (Delco-Remy No. 1102983)
40A	PGF-14438	1	@* Generator (standard) (Delco-Remy No. 1102024)
40B	PGF-13819	1	* Generator bracket
40C	PGF-13818	1	* Generator strap
40D	PGF-13911	1	* Generator spacer
41	PGF-13796	1	* Generator baffle

Note: * Parts used with either PGF-13793 or PGF-14438 (standard) generator only.
 ** Parts used with PGF-13573 (special - extra heavy duty) generator only.
 # Machines below 99-304.
 @ Machines 99-304 and up.

(continued)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
42	PGF-13817	1	* Generator pulley
	PGF-13820	1	* Generator belt (not illustrated)
43	PGF-9357	1	* Generator fan
44	PGF-5163	2	* Wire - generator to regulator
45	PGF-11389	1	* Loom - generator to regulator wires
46	PGF-11681	1	#* Voltage regulator (Delco-Remy No. 1118903)
46A	PGF-14568	1	@* Voltage regulator (Delco-Remy No. 1118955)
47	PGF-12929	1	* Voltage regulator bracket
48	PGF-13914	1	* Wire - regulator to generator
40E	PGF-13573	1	** Generator (special - extra heavy duty) (Delco-Remy No. 1106824)
40F	PGF-14277	1	** Generator bracket
40G	PGF-14770	1	** Generator strap
42A	PGF-14276	1	** Generator pulley
	PGF-13820	1	** Generator belt (not illustrated)
43A	PGF-11536	1	** Generator fan
44A	PGF-5163	2	** Wire - generator to regulator
45A	PGF-11389	1	** Loom - generator to regulator wires
46B	PGF-13568	1	** Voltage regulator (Delco-Remy No. 1118883)
47A	PGF-12929	1	** Voltage regulator bracket
48A	PGF-13914	1	** Wire - regulator to generator
49	PGF-14383	1	Wire - starter to generator
50	PGF-2897	1	Clip
51	PGF-11424	1	Loom

Note: * Parts used with either PGF-13793 or PGF-14438 (standard) generator only.
 ** Parts used with PGF-13573 (special - extra heavy duty) generator only.
 # Machines below 99-304.
 @ Machines 99-304 and up.

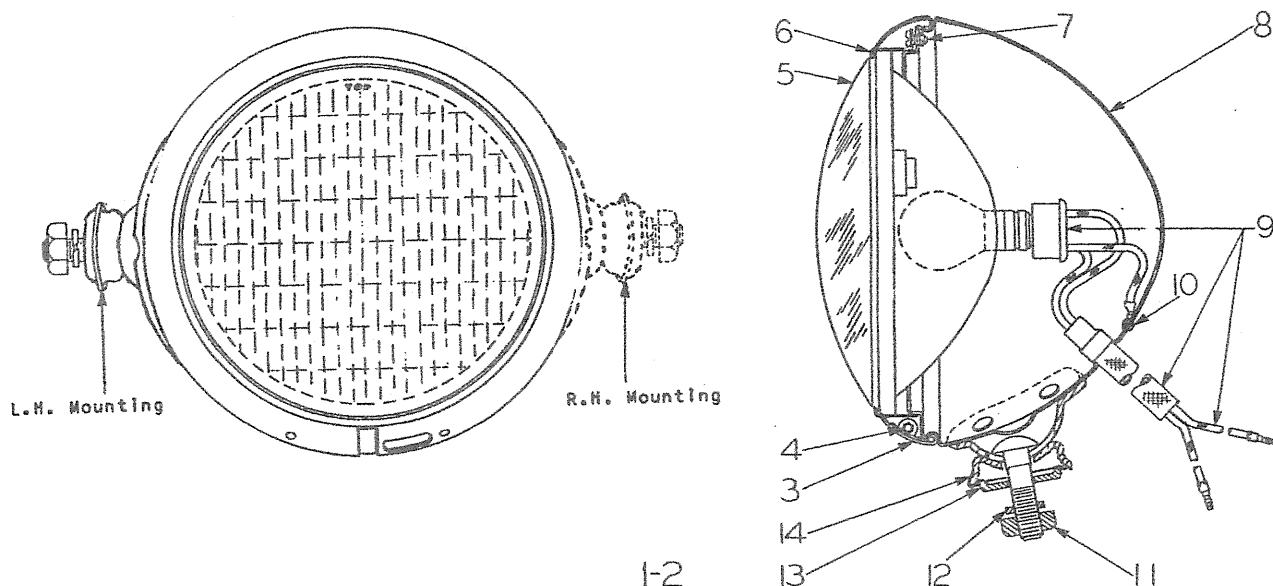


Figure 51. Sealed Beam Headlights

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-11982	1	Headlight, complete - L.H. shown (12 volt)
2	PGF-11983	1	Headlight, complete - R.H. opposite (12 volt)
3	121037	1	Moulding group
4	121035	1	Moulding screw
5	121052	1	Sealed unit
6	121038	1	Retaining ring
7	121036	3	Retaining ring screw
8	121058	1	Body (for Ref. Nos. 1 and 2)
9	121059	1	Wiring group (connector to headlight)
10	121060	1	Rivet - ground clip
11	121013	1	Nut
12	121014	1	Lock washer
13	121061	1	Bearing washer
14	121062	1	Adapter washer

ENGINE AND ATTACHING PARTS

PART NO.	QUANTITY	DESCRIPTION
GF-14719	1	Engine - UD-14A (per IHC B/M No. 92 or 92A) (uses 3/8" dia. bolts in flywheel housing) (no longer furnished. Order PGF-15214 engine) (see engine parts catalog)
PGF-15214	1	Engine - UD-14A (per IHC B/M No. 92B or 92C) (uses 7/16" dia. bolts in flywheel housing) (see engine parts catalog)
IHC-ISK-9279		Crank case oil pan (for PGF-14719 engine)
IHC-276327R11	1	Crankcase oil pan (for PGF-15214 engine)
IHC-118-114A-6	1	Lubricating oil pump (for PGF-14719 engine)
IHC-276329R91	1	Lubricating oil pump (for PGF-15214 engine)
IHC-ISK-9417	1	Oil level gauge assembly (used on PGF-14719 engine with either IHC B/M No. 92 or 92A; also used on PGF-15214 engine with IHC B/M No. 92B only)
IHC-274473R11	1	Oil level gauge assembly (used on PGF-15214 engine beginning with IHC B/M No. 92C)
IHC-0250670R93	1	Thermostat
IHC-254753R1	1	Thermostat seal
PG-1799	1	Thermostat housing
IHC-50273-DB	1	Thermostat housing gasket
IHC-274876R91	1	Fan blade group
IHC-8120-DA	1	Fan drive pulley
IHC-269292R1	2	Fan drive pulley dowel pin
PGF-3062	1	Fan drive belt
PGF-8422	1	Generator belt
IHC-10319-D	1	Crankshaft pin
PG-1074	1	Pump drive pulley
PGF-15155	1	Hydraulic pump belt (machines below 99-884)
PGF-15157	1	Hydraulic pump belt (machines 99-884 and up)
F-14552	1	Engine support - front (machines below 99-884)
PGF-15504	1	Engine support - front (machines 99-884 and up)
PGF-14545	2	Engine support bolt - front
PGF-14531	2	Cushion spacer - front engine support
PGF-9900	9	Cushion
PGF-6114	3	Engine support rebound
PGF-5909	6	Washer - 17/32" ID x 1-3/4" OD x 3/16"
PGF-14547	2	Washer - 1-1/8" ID x 1-3/4" OD x 3/8"
PGF-14537	2	Engine support - rear (on engine)
PGF-14538	2	Engine support - rear (on frame)
PGF-11326	14	Engine support stud
737005	6	Slotted nut
762006	2	Washer - rear
PGF-9932	3	Engine support bolt - rear (1/2" x 5-1/2")
WRF-1262	1	Engine support bolt - rear (1/2" x 4-1/4")
PGF-9931	3	Cushion spacer - 3-3/16" long (rear engine support)
PGF-15108	1	Cushion spacer - 2-5/8" long (rear engine support)
PGF-5652	1	Rest back
PGF-10111	2	Rest back support
PGF-11232	1	Tool and battery box - regular
PGF-15481	1	Tool and battery box (special order - for lock)
PGF-11627	2	Battery box lock (special order)
PGF-15309	1	Tool and battery box cover - regular
PGF-15482	1	Tool and battery box cover (special order - for lock)
740003	2	Wing nut - battery box cover
-11248	2	Battery spacer
-11710	4	Bumper - battery terminal
PGF-11246	2	Base - battery
PGF-14742	1	Battery box partition

(continued)

ENGINE AND ATTACHING PARTS (Contd.)

PART NO.	QUANTITY	DESCRIPTION
PGF-11638	1	Seat cushion
PGF-12000	1	Seat cushion - air foam rubber (special order)
PGF-10114	1	Cab tie plate
PGF-14741	1	Fuel tank
PGF-10808	4	Fuel tank cushion
PGF-14505	1	Fuel tank support
IHC-49094-DD	1	Magneto group (see page 56, IHC parts catalog PU-19C)
IHC-62493-D	2	Magneto bolt washer
IHC-20586-D	1	Cross shaft operating lever pin
IHC-263345R92	1	Intake manifold end cover, front - complete
IHC-29371-D	1	Starter flange cover
IHC-267041R91	1	Lifting eye attachment (GPS-207)
IHC-11858-DA	1	Water pump wrench

RADIATOR, CONNECTIONS AND ATTACHING PARTS

PGF-14490	1	Radiator (see Fig. 47)
PGF-15087	1	Drain cock
PGF-14564	1	Cover - lower outlet
PGF-10792	3	Gasket - upper and lower elbows
PG-2328	1	Elbow - upper
PG-2326	1	Elbow - lower
PGF-5691	1	Hose - 2" ID x 2-3/4" (lower)
PGF-5692	2	Hose - 2" ID x 3-7/8" (upper and lower)
PG-2298	1	Pipe - lower radiator connection
PGF-14523	2	Tie rod - radiator
034016	8	Hose clamp
PGF-9520	2	Clip - tail light wires

AIR CLEANER AND ATTACHING PARTS

PGF-9912	1	Air cleaner (see Fig. 55)
PGF-13274	1	Pre-cleaner - air cleaner stack
PGF-15276	1	Stack extension - air cleaner
PGF-14751	1	Support - air cleaner bracket
PGF-15079	1	Plate - air cleaner bracket support
PGF-9908	1	Bracket - air cleaner (upper)
PGF-9934	1	Bracket - air cleaner (lower)
PGF-9909	2	Cushion - air cleaner bracket
PGF-9906	2	Hose - air cleaner
PGF-15106	1	Tube - air cleaner
PGF-15107	1	Tube - air cleaner
IHC-50529-D	1	Gasket - air cleaner pipe (engine end)
PGF-15230	1	Tube - air cleaner air line (short)
PGF-15231	1	Tube - air cleaner air line (long)
HCF-4452-4	4	Clamp - air cleaner hose

MUFFLER AND ATTACHING PARTS

PGF-11272	1	Muffler
PGF-12641	1	Clamp - muffler elbow outlet
BRF-2336	1	Elbow - muffler outlet
PGF-9053	1	Exhaust pipe
MGF-2950	1	Clamp - exhaust pipe
IHC-50677-D	4	Stud - exhaust pipe
921006	4	Nut - exhaust pipe stud (brass)

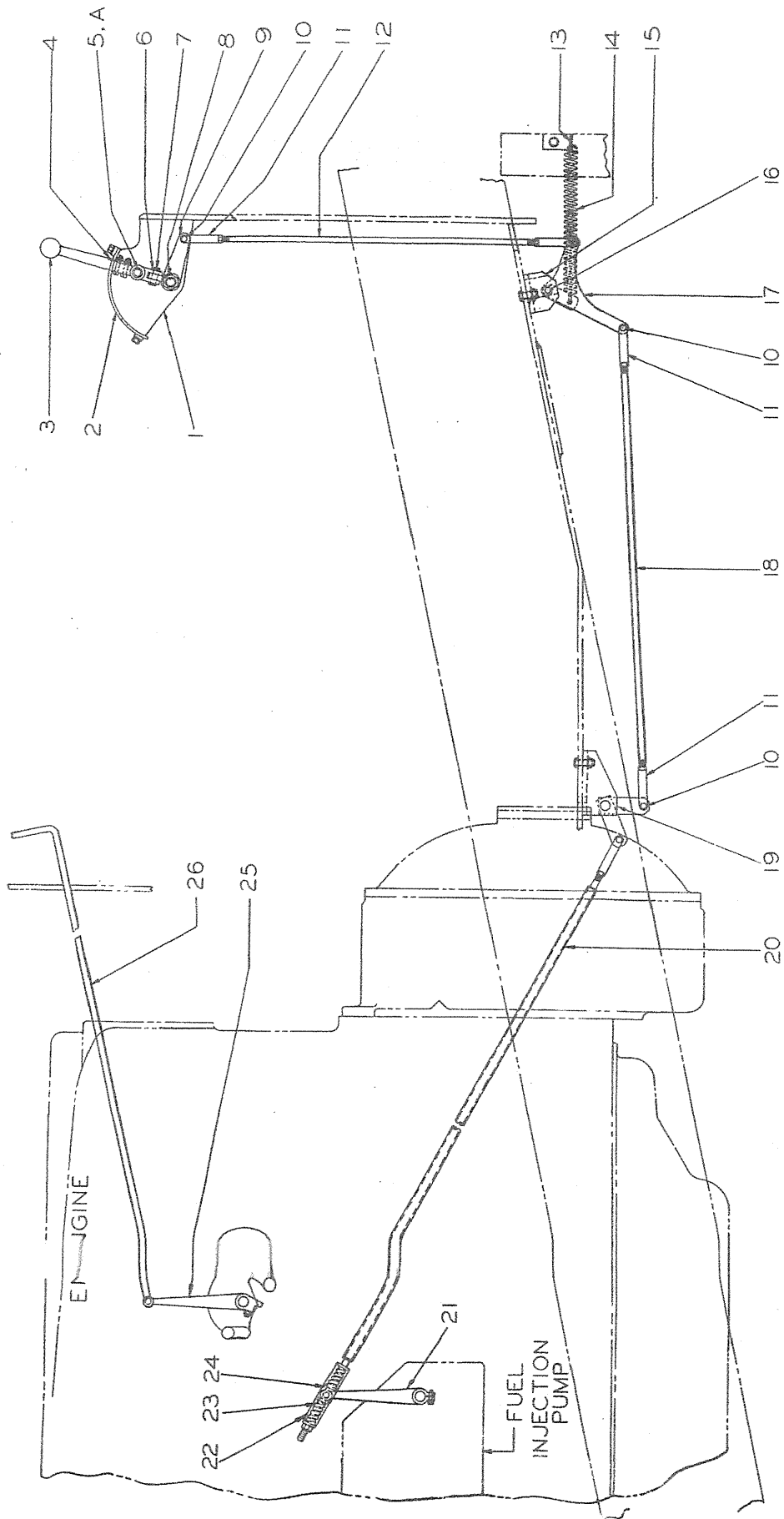
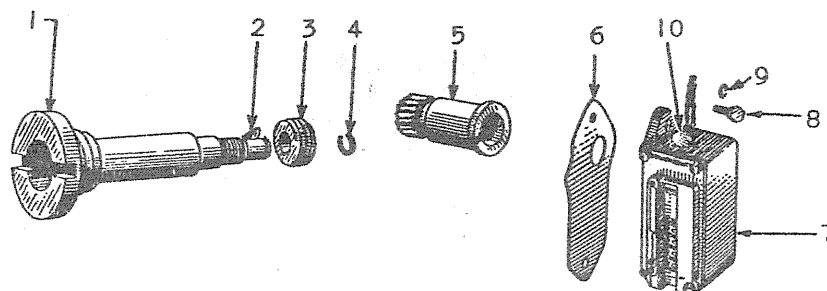


Figure 52. Governor Control Linkage
(For UD-14A Engine)

1	PGF-11500	1	Governor control lever support (welds on)
2	PGF-13675	1	Ratchet
3	PG-2100	1	Governor control lever
4	PGF-12415	1	Ratchet clip
5	PGF-12377	1	Pin
5A	MSF-854	1	Spring
6	762004	1	Washer
7	783004	1	Rod end pin
8	PGF-13949	1	Throttle lever pivot
9	PG-2098	1	Arm - throttle handle
10	783003	5	Rod end pin
11	782003	5	Rod end fork
12	PGF-15210	1	Control rod
13	PGF-15058	1	Spring support
14	PGF-268	1	Spring
15	PGF-13887	1	Bell crank bracket
16	PGF-11471	1	Bell crank cross pin
17	PGF-15207	1	Bell crank
18	PGF-15209	1	Control rod
19	PGF-14426	1	Throttle linkage bracket
20	PGF-15098	1	Control rod
21	PGF-14388	1	Lever
22	PGF-14387	1	Trunnion guide
23	PGF-14386	2	Spring
24	PGF-12261	1	Control rod swivel
25	PG-1362	1	Lever - trip mechanism
26	PGF-15091	1	Control rod - carburetor trip

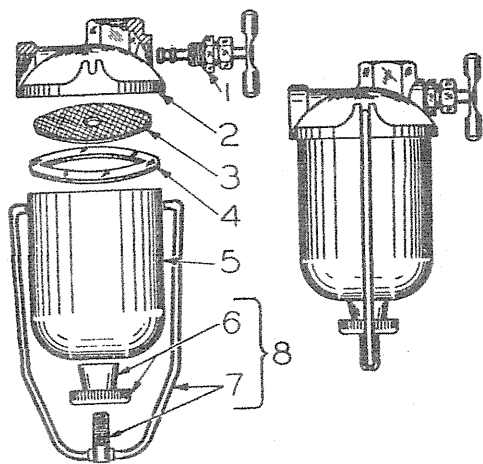


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B/M PGU-1944-A

Figure 53. Hourmeter for UD-14A Engine

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-1944-A	1	Hourmeter head and gear group - special order (includes Ref. Nos. 5 to 10 inclusive)
1	IHC-352560R1	1	Magneto drive shaft
2	IHC-103904	1	Drive gear key
3	IHC-51001-D	1	Drive gear
4	IHC-21362-D	1	Drive gear retainer
5	PGF-10196	1	Driven gear, complete (IHC-51002-D)
6	PGF-10197	1	Gasket (IHC-49451-DA)
7	PGF-13109	1	Hourmeter (IHC-261805R91)
8	PGF-10200	2	Cap screw (IHC-23086-D)
9	778009	2	Lock washer (IHC-103319)
10	PGF-10198	1	Lead seal (IHC-12736-D)

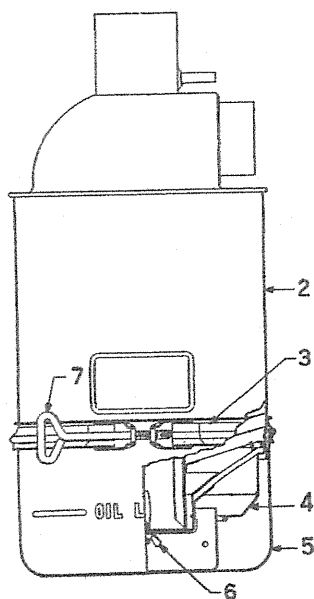


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Figure 54. Gas Strainer
(For UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGF-9336	1	Gas strainer group (includes Ref. 1 to 7 inclusive)
1	355013	1	Shut-off valve
2	355012	1	Cover
3	355010	1	Screen
4	355008	1	Gasket
5	355009	1	Bowl
6	355072	1	Thumb nut with cup
7	355011	1	Clamp wire with stud
8	355014	1	Clamp wire group (includes Ref. Nos. 6 and 7)

Note: To insure perfect seal always replace gasket, Ref. 4, when cleaning out strainer.



-1-

Figure 55. Air Cleaner
(For UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PGF-9912	1	Air cleaner group (includes Ref. 2 to 5 inclusive)
2	035019	1	* Body (includes Ref. No. 6)
3	035012	1	Oil cup retaining clamp (includes Ref. No. 7)
4	035013	1	Tray
5	035014	1	Oil cup
6	035004	2	Wing nut
7	035010	1	Clamp bolt

Note: * When replacing Ref. 2 Body, we recommend purchasing a new PGF-9912 air cleaner complete.

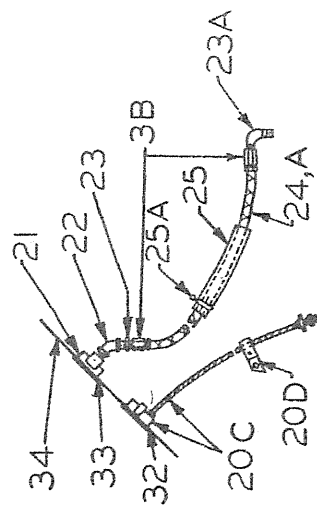
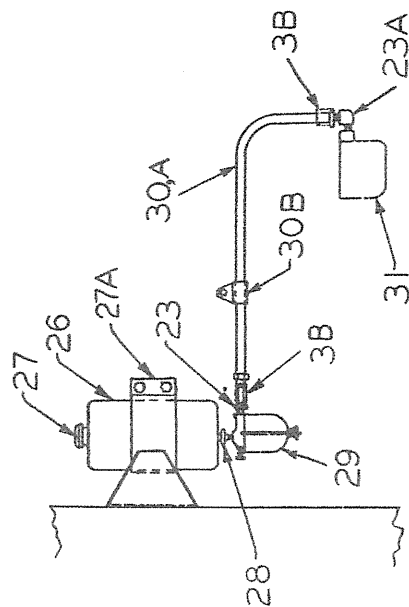
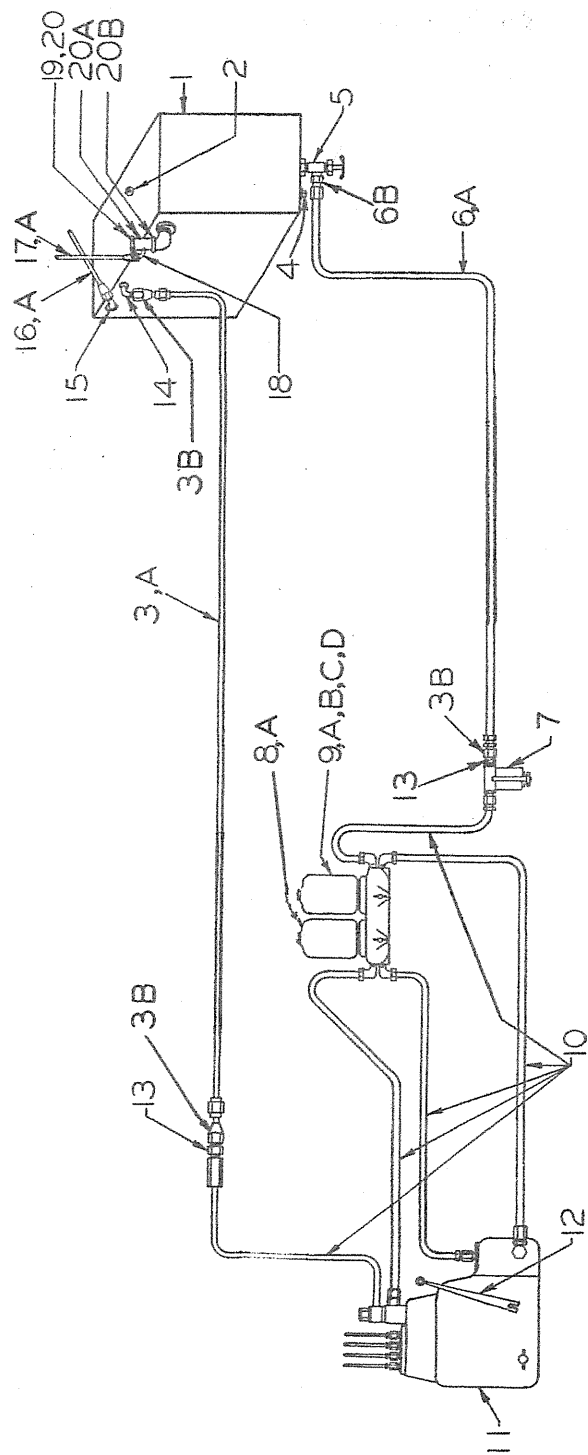
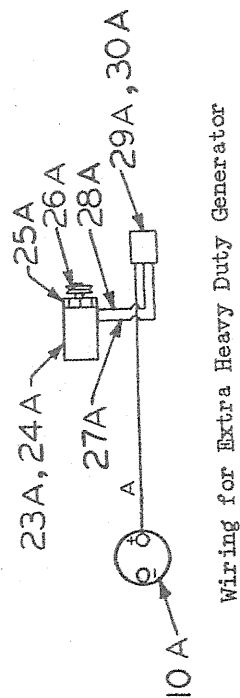
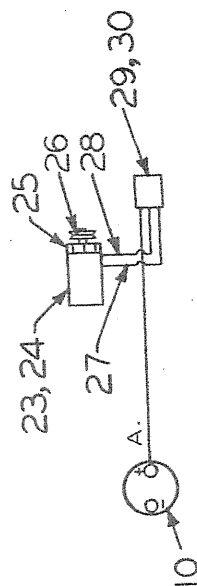
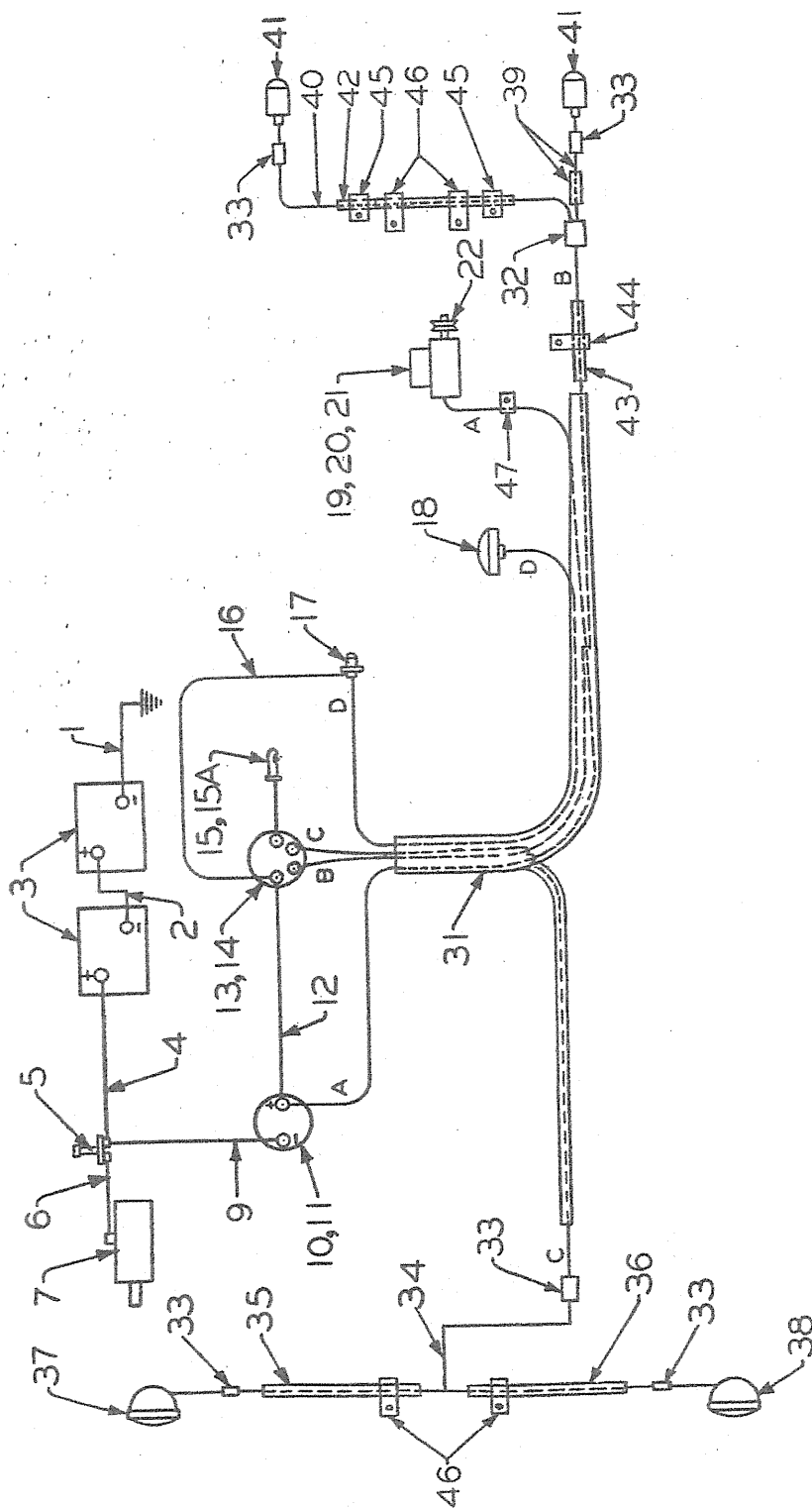


Figure 56. Fuel System for UD-14A Engine

1	818005	1	Fuel hose - return line (includes Ref. No. 3A and two Ref. No. 3B)
2	PGF-13626	1	Hose - 5/16" ID x 59" long
3			Hose fitting - female thread
3A	451013	7	Drain plug
3B	PGF-13619-3	1	Needle valve
4	816003	1	Fuel hose - tank to water trap (includes Ref. No. 6A, one Ref. No. 3B and Ref. No. 6B)
5	PGF-9338	1	Hose - 5/16" ID x 46" long
6	PGF-13641	1	Hose fitting - female thread
6A	451013	1	Water trap, complete (see page 49, IHC parts catalog PU-19C)
6B	PGF-13619-6	1	Final fuel filter (see page 50, IHC parts catalog PU-19C)
7	IHC-251355R91	1	Final fuel filter element (radial fin type) (IHC-266839R91 optional. Will work for 259479R92)
8	IHC-	1	Auxiliary fuel filter (see page 50, IHC parts catalog PU-19C)
8A	IHC-259479R92	1	Auxiliary fuel filter top plate
9	IHC-	1	Auxiliary fuel filter element
9A	IHC-62948-D	1	Auxiliary fuel filter bottom plate
9B	IHC-62946-DA	1	Auxiliary fuel filter bottom plate gasket
9C	IHC-64520-DA	1	Fuel lines (see UD-14A engine parts catalog)
9D	IHC-64521-D	1	* Fuel injection pump complete with primary pump (1800 engine RPM)
10	IHC-	1	Fuel injection pump control lever
11	IHC-270122R91	1	Connector
12	PGF-14388	1	Elbow
13	840006	2	Elbow
14	835006	1	Breather tube - short
15	835008	1	Clip - breather tube (not illustrated)
16	PGF-14572	1	Breather tube - long
16A	PGF-13173	1	Clip - breather tube (not illustrated)
17	PGF-14571	1	Elbow
17A	PGF-13173	1	Filler tube cap - fuel tank
18	835007	1	Filler tube cap gasket
19	PGF-11696	1	Filler tube
20	TF-1161	1	Filler tube elbow - brass
20A	PGF-13806	1	Water temperature gauge
20B	565009	1	Clip
20C	PGF-9549	1	Oil pressure gauge
20D	PGF-2721	1	Elbow
21	TF-1530	1	Connector
22	568001	1	Elbow
23	840005	2	Oil gauge hose (includes Ref. No. 24A and two Ref. No. 3B)
23A	835005	2	Hose - 5/16" ID x 62" long
24	PGF-14528	1	Guard - oil hose and wiring harness
24A	451013	1	Hose guard clamp
25	PGF-11040	1	Gas tank
25A	034012	1	Gas tank cap
26	PGF-13753	1	Gas tank support
27	033003	1	Adapter
27A	PGF-13752	1	Gas strainer (see Fig. 54)
28	PGF-5756	1	Gas hose (includes Ref. No. 30A and two Ref. No. 3B)
29	PGF-9336	1	Hose - 5/16" ID x 35 1/2" long
30	PGF-15000	1	Hose clip
30A	451013	1	Carburetor (per GPS-190A) (see IHC parts catalog PU-19C and IHC parts pamphlet 1013385R1)
30B	PGF-6422	1	Water temperature gauge gasket
31	IHC-271491R92	1	Oil pressure gauge gasket
32	PGF-9280	1	Instrument panel
33	PGF-9282	1	
34		1	

Note: * When ordering a replacement pump from IHC be sure to give the pump part number stamped on the name plate attached to the pump. With this information IHC will be able to supply a pump set at the proper governed speed.



B/M PGU-1858, 202
PGU-2118, 244

Figure 57. Wiring Diagram for UD-14A Engine

1	PGF-10117	1	Cable - battery to ground
2	PGF-10118	1	Cable - jumper
3	PGF-10122	2	Battery - 6 volt (19 plate)
4	PGF-11710	4	Bumper - battery terminals (not illustrated)
5	PGF-14478	1	Cable - battery to starter switch
6	PGF-9350	1	Starter switch
7	PGF-15089	1	Cable - starter switch to starter
9	PGF-10700	1	Starting motor (Delco-Remy No. 1109155)
10	PGF-9508	1	Wire - starter switch to ammeter
	PGF-9349	1	Ammeter (30/30) For standard and heavy duty generators only)
10A	ASF-6273	1	*** Ammeter (60/60)
11	PGF-9282	1	Ammeter gasket
12	PGF-9506	1	Wire - ammeter to light and ignition switch
13	PGF-9351	1	Light and ignition switch
14	PGF-9279	1	Switch gasket
15	ASF-5372	1	Dash light (less bulb)
15A	PGF-11968	1	Dash light bulb (3CP-SC;12-16V)
16	PGF-9547	1	Wire - switch to horn button
17	PGF-9343	1	Horn button
18	PGF-9342	1	Horn
19	PGF-9352	1	* Generator with DR-5838 Regulator (standard) (Delco-Remy No. 1101738)
20	PGF-11573	1	* Generator bracket
21	IHC-50892-DA	1	* Generator brace
22	PGF-11572	1	* Generator pulley
	PGF-8422	1	* Generator belt (not illustrated)
23	PGF-9354	1	** Generator (special - heavy duty) (Delco-Remy No. 1102976)
24	PGF-5161	1	** Generator support
25	PGF-9357	1	** Generator fan
26	PGF-9356	1	** Generator pulley
	PGF-8422	1	** Generator belt (not illustrated)
27	PGF-5162	1	** Wire - generator to regulator (#14 Ga. wire - green)
28	PGF-5163	1	** Wire - generator to regulator (#10 Ga. wire - red)
29	PGF-9355	1	** Voltage regulator (Delco-Remy No. 1118355 or 1118902)
30	PGF-12852	1	** Regulator support
23A	PGF-13572	1	*** Generator (special - extra heavy duty) (Delco-Remy No. 1106822)
24A	PGF-13596	1	*** Generator support
25A	PGF-11536	1	*** Generator fan
26A	PGF-13804	1	*** Generator pulley
	PGF-8422	1	*** Generator belt (not illustrated)
27A	PGF-5162	1	*** Wire - generator to regulator (#14 Ga. wire - green)
28A	PGF-5163	1	*** Wire - generator to regulator (#10 Ga. wire - red)
29A	PGF-13608	1	*** Voltage regulator (Delco-Remy No. 1118881)
30A	PGF-13595	1	*** Regulator support

Note: * Parts used with PGF-9352 (standard) generator only.

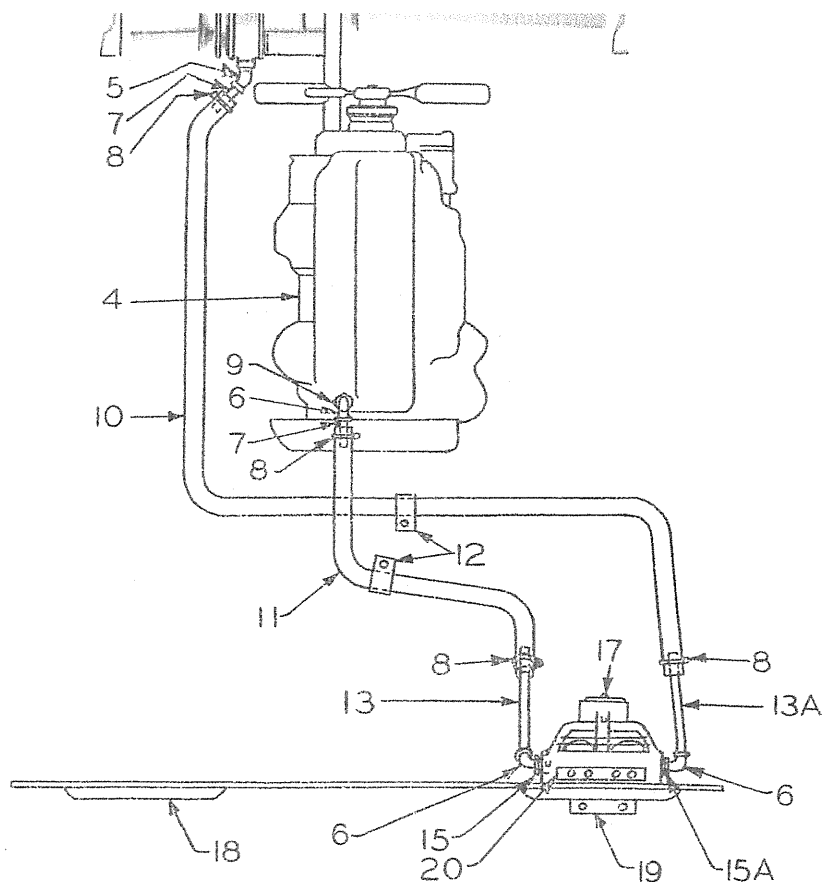
** Parts used with PGF-9354 (special - heavy duty) generator only.

*** Parts used with PGF-13572 (special - extra heavy duty) generator only.

(continued)

(Refer to Figure 57 for Reference Numbers)

REF NO.	PART NO.	QUANTITY	DESCRIPTION
31	PGF-12662	1	Wiring harness assembly
32	PGF-12627	1	Connector (3 wire)
33	PGF-10421	5	Connector
34	PGF-12654	1	Wire - connector to headlight connectors
35	PGF-11986	1	Loom to right hand headlight
36	PGF-11987	1	Loom to left hand headlight
37	PGF-11983	1	Headlight - right hand
38	PGF-11982	1	Headlight - left hand
39	PGF-12653	1	Wire (with loom) - connector to L.H. tail light connector
40	PGF-12652	1	Wire - connector to R.H. tail light connector
41	PGF-14849	2	Tail light
42	PGF-11967	1	Loom to right hand tail light
43	PGF-11424	1	Loom
44	PGF-2897	1	Clip
45	PGF-9520	2	Clip
46	PGF-10046	4	Clip
47	PGF-10775	1	Clip - generator wire



B/M PGU-2435

Figure 58. Heater Piping Diagram
(For UD-14A Engine)

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1		1	Radiator
2		1	Outlet elbow
4		1	Engine
5	564051	1	Elbow
6	563852	3	Elbow
7	556101	2	Pipe
8	034010	4	Hose clamp
9	884004	1	Reducer bushing
10	PGF-5738	1	Heater hose
11	ASF-6029	1	Heater hose
12	PGF-9960	2	Hose clip
13	556121	1	Pipe
13A	PGF-12565	1	Pipe
15	884008	1	Reducer bushing
15A	PGF-13987	1	Face bushing
17	PGF-12649	1	Heater - 12 volt
18	PGF-14498	1	Cab tie plate
19	PGF-15076	1	Heater support plate
20	PGF-15077	1	Support plate angle
21	PGF-15087	1	Radiator draincock
22	538003	1	Tee
23	555092	1	Nipple

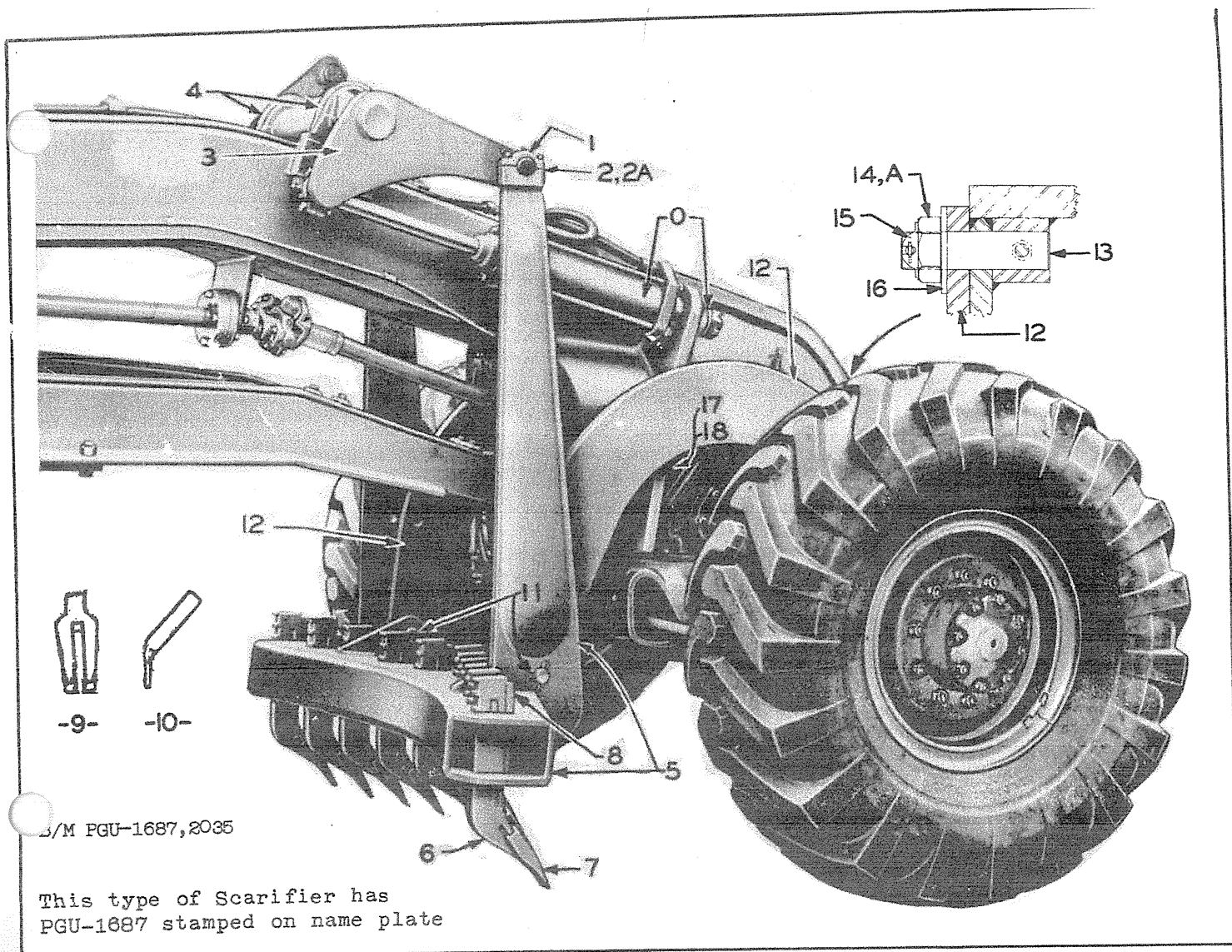
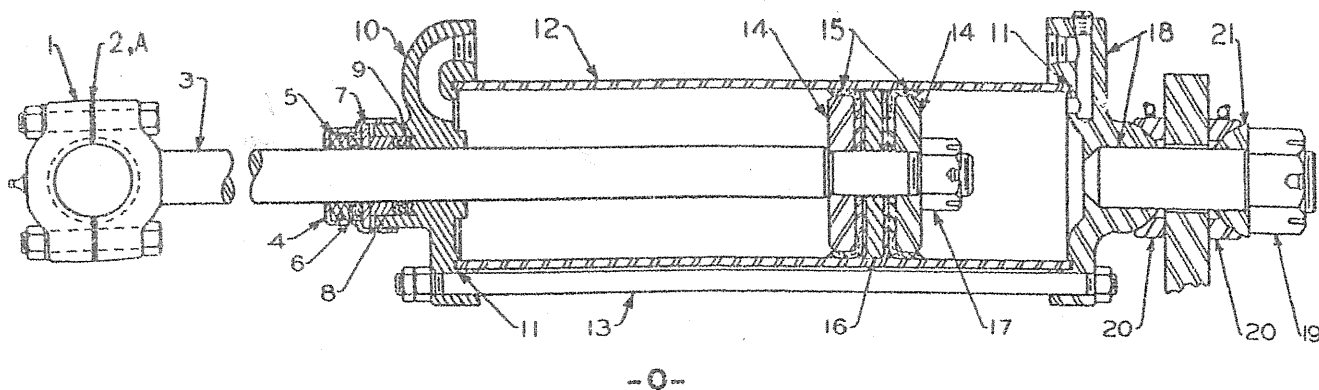


Figure 59. Scarifier

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0		1	Scarifier ram group (see Fig. 60)
1	PGF-9487	2	Ball cap
2	MGF-1992	4	Ball cap shim - .024" thick
2A	PGF-11856	8	Ball cap shim - .010" thick
3	PGF-14634	1	Lift shaft
4	PGF-8390	2	"U" bolt
5	PGFA-9790	1	Block
6	PGF-5375	11	Tooth shank
7	PGF-5376	11	Tooth point
8	PGF-3579	11	Tooth wedge
9	PGF-5698	1	Tooth point remover
10	MGF-2454	1	Tooth wedge remover
11	PGF-9049	2	Pin
12	PGF-15530	2	Arm
13	PGF-6640	2	Pin
14	PGF-5405	2	Nut (no longer furnished. Order Ref. No. 14A)
14A	PGF-6641	2	Slotted nut
15	PGF-7191	2	Nut clip (used with Ref. No. 14)
16	MGF-1185	2	Washer
17	PGF-13637	1	* Arm latch - R.H.
18	PGF-13638	1	* Arm latch - L.H.

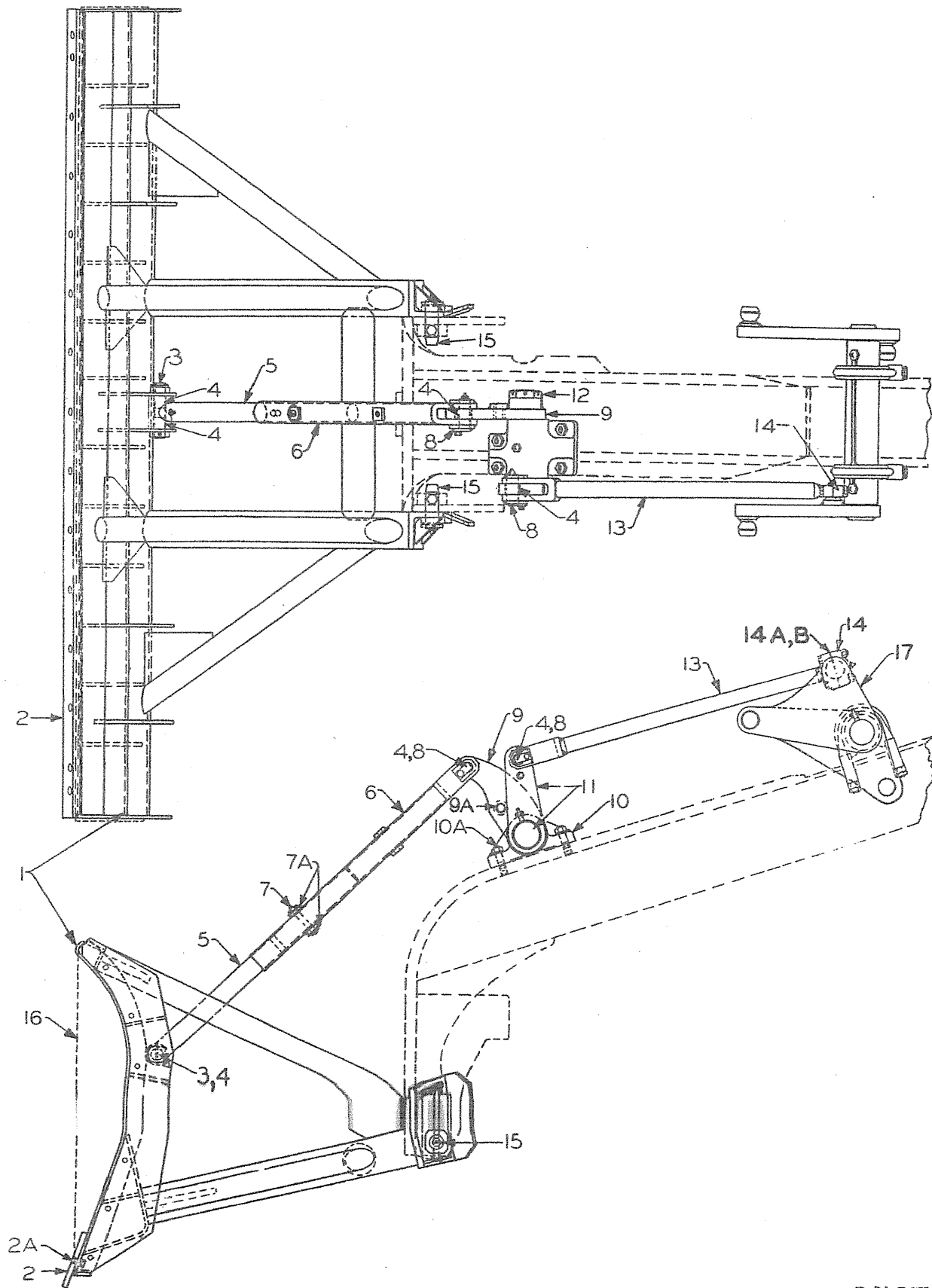
Note: * Indicates parts used when machine is equipped with a bulldozer or snow plow in addition to scarifier.



B/M PGU-1960

Figure 60. Scarifier Ram
(Also used with Bulldozer and front Snow Plows)

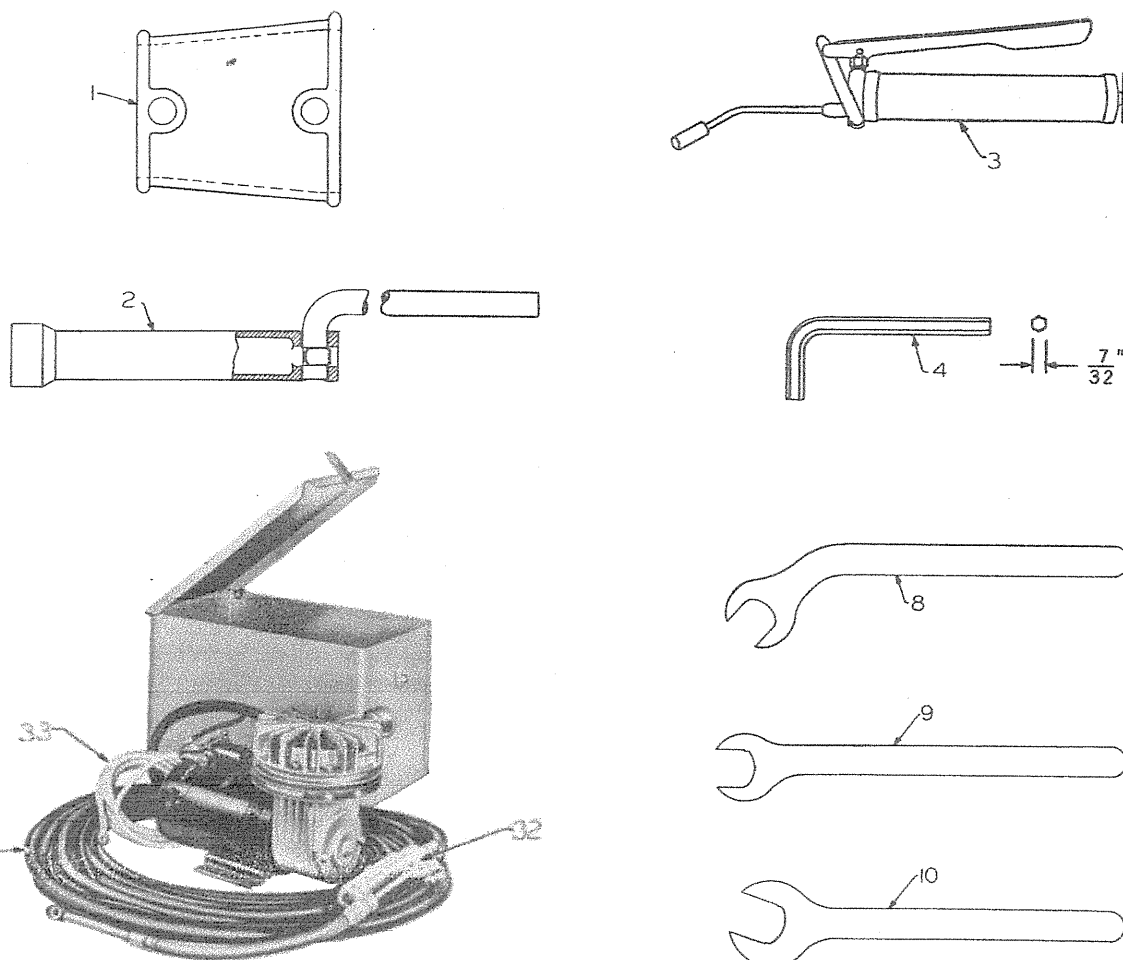
REF. NO.	PART NO.	QUANTITY	DESCRIPTION
0	PGU-1960	1	Ram group (includes Ref. Nos. 1 to 18 inclusive)
1	PGF-9487	1	Ball cap
2	MGF-1992	4	Ball cap shim - .024" thick
2A	PGF-11856	4	Ball cap shim - .010" thick
3	PGF-14465	1	Piston rod
4	PGF-9243	1	Cap
5	PGF-9239	1	Wiper
6	PGF-9238	1	Felt
7	PGF-9237	1	Retainer
8	PGF-9221	1	Press ring
9	PGF-9229	4	Chevron
10	PG-1981	1	Head
11	PGF-1688	2	Gasket
12	PGF-7857	1	Cylinder
13	PGF-7858	4	Tie rod
14	PGF-3255	2	Spreader
15	PGF-11776	2	Cup
16	PGA-862	1	Piston
17	734013	1	Slotted nut
18	PGX-10699	1	Base with shaft and nut Ref. 19
19	PGF-6641	1	Slotted nut
20	PG-1709	2	Socket
21	PG-1926	1	Ball plate



B/M PGU-1947-B
PGU-1948-A
PGU-2035

Figure 61. Bulldozer

2	PGF-9556	1	2 and 2A)
2A	RGF-6461	15	Bit - 5/8" x 8" x 9'
3	PGF-10726	1	Bit bolt
4	SPF-1100	4	Pin
5	PGF-10733	1	Bushing
6	PGF-10721	1	Lift rod
7	SPF-1085	1	Lift tube
7A	762009	1	Pin
8	PGF-10731	2	Washer
9	PGF-10734	2	Pin
9A	SPF-1193	1	Arm
10	PG-1815	1	Bushing
10A	PGF-10730	1	Support
11	PGF-11849	4	Stud
12	PG-728	1	Lift shaft
13	PGF-10720	1	Lift shaft nut
14	PGF-9487	1	Connecting rod
14A	MGF-1992	1	Ball cap
14B	PGF-11856	4	Ball cap shim - .024" thick
15	PGF-10736	4	Ball cap shim - .010" thick
16	PGU-1690	2	Pivot pin
17	PGF-14634	1	Blade landside (special order)
		1	Scarifier lift shaft



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Figure 62. Tools

REF. NO.	PART NO.	QUANTITY	DESCRIPTION
1	PG-934	1	Front wheel bearing nut wrench
2	PGF-6510	1	Wheel stud wrench
3	ASF-6993	1	Grease gun
4	848007	1	Hollow head cap screw wrench (hydraulic control valves)
8	PGF-10149	1	Hydraulic coupling wrench (1-1/8" opening) for 5/8" fitting (special order)
9	PGF-10150	1	Hydraulic coupling wrench (1-1/8" opening) for 5/8" fitting (special order)
10	PGF-10148	1	Hydraulic coupling wrench (1-1/4" opening) for 3/4" fitting (special order)
15	PGF-13961	1	Electric tire pump - battery operated (model 127-12V) (special order). Obtain repair parts from Johnson Service Company, Milwaukee, Wisconsin
32	515003	1	In-line air gage and switch
33	515004	1	Battery cable (9')
34	515005	1	Hose and wire assembly (30')

Part No.	Page	Part No.	Page	Part No.	Page
#					
021003	28	194262	33	331099	19
033003	95	311158	33	331103	19
033007	80	311167	28,33	331108	19
034010	81,99	311243	33	333014	19
034012	95	311322	29	333015	19
034014	64,66,67	311330	23	333016	19
	75	311339	40	333032	20,58
034016	89	311367	23	333072	20,58
034105	64	311368	29	333082	20,58
035004	93	311392	24	333084	20,58
035010	93	311429	29	333085	20,58
035012	93	311447	29	333099	20,58
035013	93	311479	33	333101	58
035014	93	311596	28	333106	20,58
035019	93	311618	9	333107	20,58
035030	79	311619	9	333108	20,58
035031	79	312245	9	333111	20,58
035032	79	312505	23	333116	58
035033	79	312514	23	333117	19
035034	79	312547	39	333118	58
035035	79	312549	9,39	333119	58
040002	32	312814	12,44	333120	58
040007	32	312836	11,42	333121	58
040009	33	312888	12,44	333122	58
040011	32	312991	9,39	333131	20,58
040013	32	313098	9	333133	19
040041	33	313190	23	333141	20,58
040042	33	313208	39	333146	19,58
040043	33	313209	9,39	333151	20,58
040044	33	313366	12,44	333152	20,58
040045	33	313380	11,42	355008	93
040046	33	313407	12,44	355009	93
064456	11,42	313448	9,39	355010	93
111009	73	313459	23	355011	93
111010	29,32	314060	15	355012	93
111012	31	318446	28	355013	93
121013	87	318508	24	355014	93
121014	87	319002	23	355072	93
121035	87	331007	19	382009	35
121036	87	331021	19	382129	35,37
121037	87	331026	19	382130	35,37
121038	87	331028	19	382131	35,37
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