
PARTS SUPPLEMENT

Supplement To M-201-84 ChipSpreader Parts Manual

For Units With:

SPICER MODEL PR 1300 REAR AXLE
NEW PROCESS MODEL NP-542 FIVE SPEED TRANSMISSION
ELECTRICALLY OPERATED SPREAD ROLL

Applicable Unit Serial Numbers:

Spicer Axle - units with serial numbers K-4752, K-4802 and thereafter.

New Process Five Speed Transmission - units with serial numbers K-4745, K-4748
and thereafter.

Electrically Operated Spread Roll - units with serial numbers K-4725, K-4798,
K-4799, K-4814 and thereafter.

This supplement is in addition to the information
supplied in M-201-84 ChipSpreader Parts Manual.



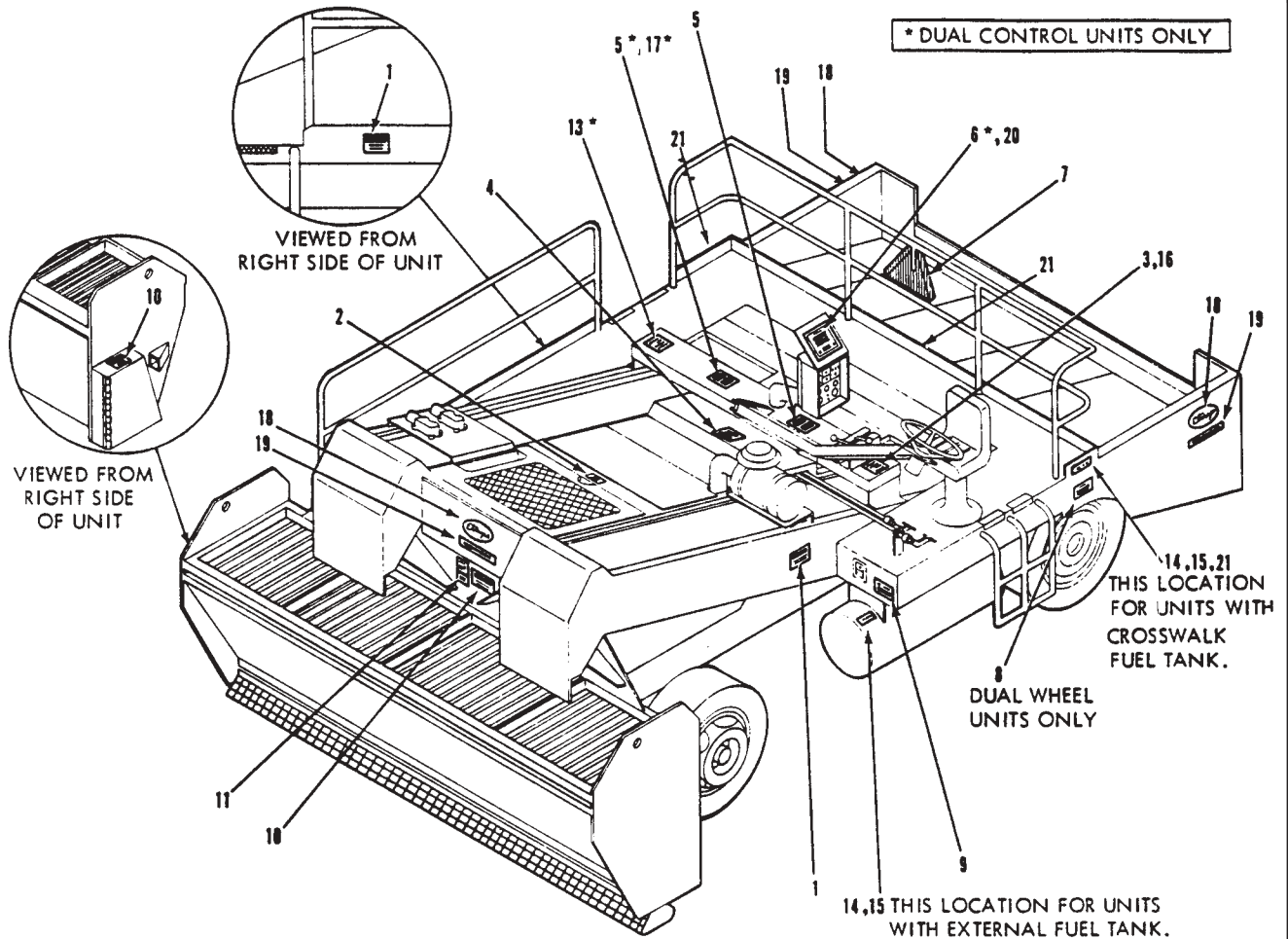
CAUTION

- 1 Make certain everyone is clear of machine before starting engine or operation.
- 2 Always use steps, platforms and handrails provided.
- 3 Remain clear of moving or rotating parts.
- 4 Always have shields, covers and guards in place when operating.
- 5 Do not stand in front of hopper to engage and disengage hopper gates.
- 6 Keep drive clutch engaged when machine is being roaded down hill.

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Caution And Instruction Plates



For operator safety and possible liability protection, all Safety and Instruction plates should remain in place and be legible.

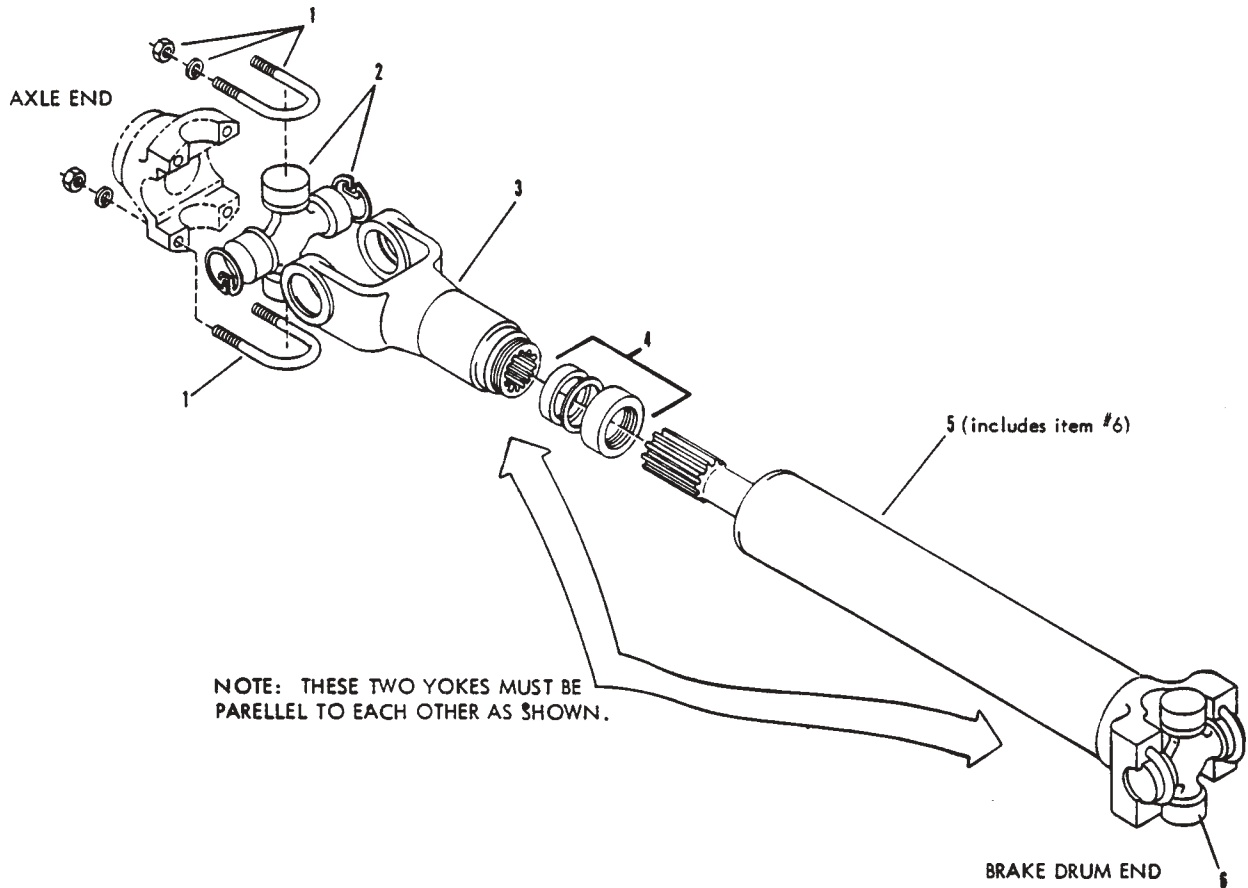
Should a plate be removed, lost, or become illegible, Reorder and Replace Immediately.

If plates become difficult to read because of material coating the surface, clean with solvent.

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3561028	2	PLATE-CAUTION,REMAIN CLEAR	11	3100719	1	PLATE-PADDLE AND HOOD ADJUST
2	3100766	1	TAG-ANTI FREEZE	12	0145377	AR	SCREW-DR, RDHD, 4X0.31, PD -NS
3	3101118	1	PLATE-SHIFT PATTERN, 4SPD, LEFT	13	3101063	AR	PLATE-SHIFT PATTERN, 4SPD, RIGHT
4	3100716	1	PLATE-CAUTION, 7 ITEM GENERAL	14	3360180	AR	PLATE-DIESEL FUEL ONLY
5	3100305	AR	PLATE-INSTRUCTION, DEACCELERATE ENGINE	15	3360543	AR	PLATE-GASLINE ONLY
6	3190492	1	PLATE-INSTRUCTION, DUAL CONTROL UNIT OPERATION	16	3101211	1	PLATE-SHIFT PATTERN, 5SPD, LEFT
7	6000758	1	EMBLEM-VEHICLE, SLOW MOVING	17	3100930	1	PLATE-SHIFT PATTERN, 5SPD, RIGHT
8	3100990	AR	FLACARD-LOCTITE, DUAL WHEELS	18	3390191	3	DECAL-ETHYRE
9	3100689	1	PLATE-SERIAL NUMBER (SPECIFY SERIAL NUMBER WHEN ORDERING)	19	3100446	3	DECAL-CHIPSREADER
10	3561029	2	PLATE-CAUTION, ALWAYS HAVE SHIELDS IN PLACE WHEN OPER	20	3101240	1	PLATE-LUBE CHART
				21	3101247	3	PLATE-CAUTION, NO DRILL OR WELD

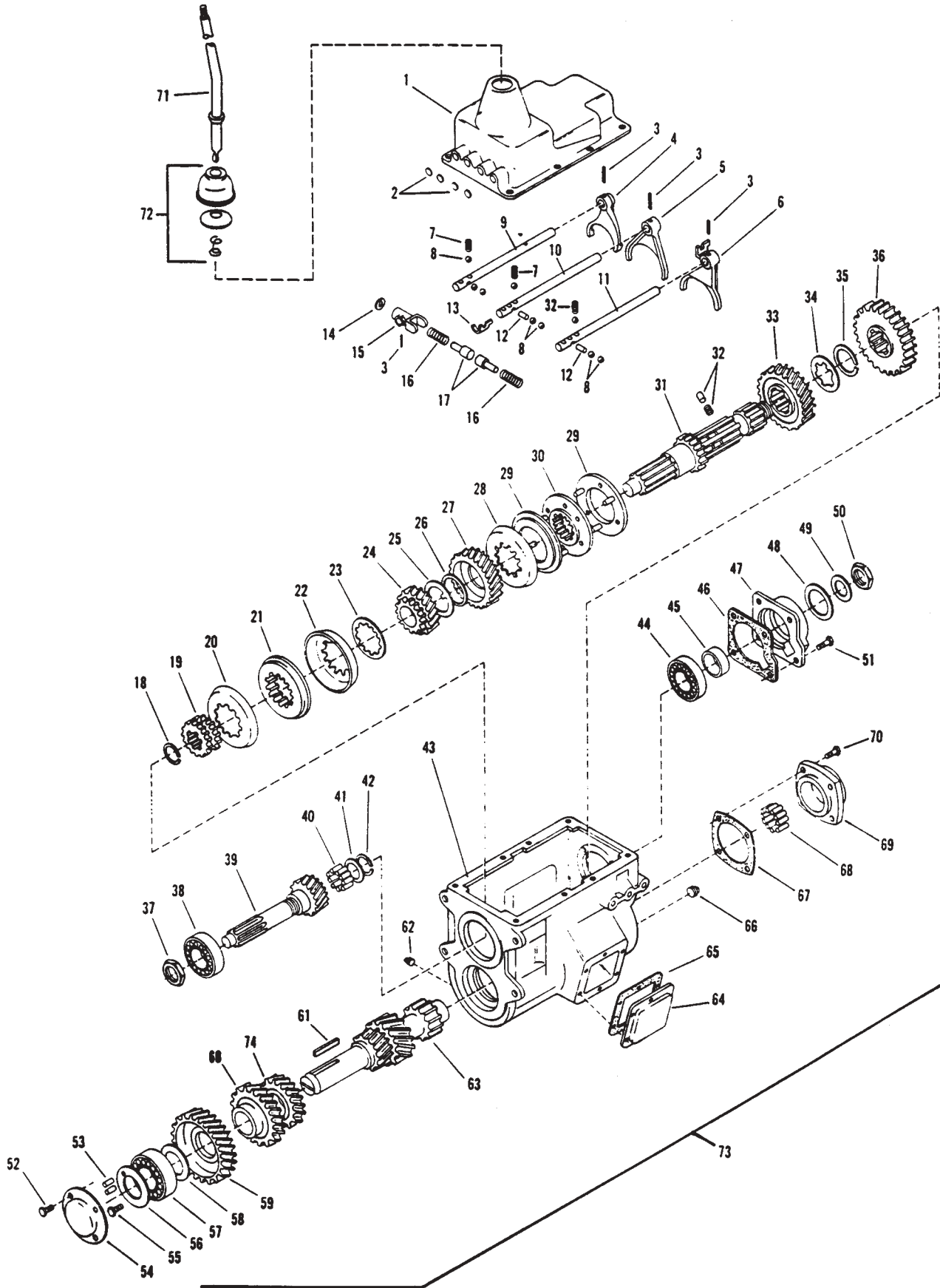
* DUAL CONTROL UNITS ONLY
 NS - NOT SHOWN
 AR - AS REQUIRED

Driveline Assembly - Transmission To Axle - 5-Speed



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3110060	2	U BOLT ASM-0.38IN (INCLUDES NUTS AND WASHERS)				
2	3110058	1	KIT-JOURNAL AND BEARING				
3	3110509	1	SLEEVE YOKE ASM				
4	3110445	1	DUST CAP GROUP				
5	3110968	1	LINE ASM-DRIVE,FORD,5 SPEED, EATON AXLE				
	3110969	1	LINE ASM-DRIVE,GMC,5 SPEED, EATON AXLE				
	3110970	1	LINE ASM-DRIVE,AC,5 SPEED, EATON AXLE				
	3111016	1	LINE ASM-DRIVE,FORD,5 SPEED, SPICER AXLE				
	3111017	1	LINE ASM-DRIVE,GMC,5 SPEED, SPCIER AXLE				
	3111015	1	LINE ASM-DRIVE,AC,5 SPEED, SPICER AXLE				
	3111018	1	LINE ASM-DRIVE,CUMMINS,5 SPEED SPICER AXLE				
6	6440189	1	SPIDER AND BEARING ASM (INCLUDED WITH ITEM NO. 5)				

5-Speed Transmission - NP 542R

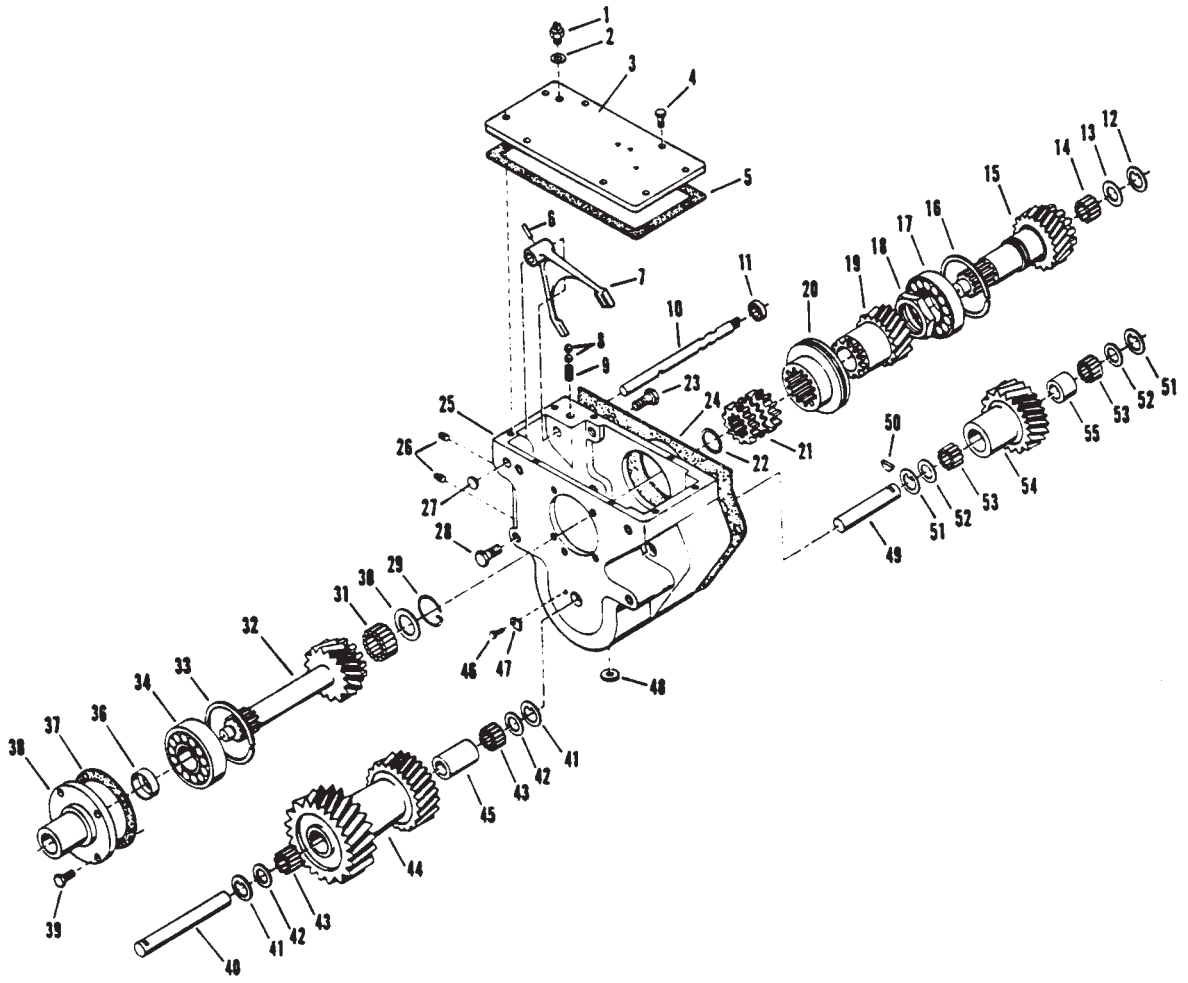


5-Speed Transmission - NP542 R

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7800543	1	COVER-TRANSMISSION	68	7800934	24	ROLLER-COUNTERSHAFT, REAR
2	7800916	4	EXPANSION PLUG-SHIFT RAIL	69	7800931	1	RETAINER-COUNTERSHAFT, REAR
3	7800558	4	LOCK PIN-LUG & FORK	70	7800932	4	SCREW&LOCKWASHER ASM-C/S, REAR
4	7800915	1	FORK-LOW SPEED LUG	71	6415038	1	LEVER ASM-SHAFT
5	7800553	1	FORK-2ND & 3RD SPEED	72	6415037	1	MOUNTING KIT-SHIFT LEVER
6	7800555	1	FORK-4TH & 5TH SPEED	73	6415096	1	TRANSMISSION ASSEMBLY-COMPL
7	7800562	2	SPRING-POPPET	74	7800929	1	GEAR-4TH, C/S
8	7800563	9	BALL-POPPET AND INTERLOCK				
9	7800913	1	RAIL-LOW SPEED				
10	7800917	1	RAIL-2ND & 3RD SPEED				
11	7800554	1	RAIL-4TH & 5TH SPEED				
12	7800560	2	PIN INTERLOCK				
13	7800552	1	LUG-2ND & 3RD SPEED				
14	7800549	1	WASHER-LOW SPEED LUG				
15	7800546	1	LUG-LOW SPEED				
16	7800548	2	SPRING-LOW SPEED LUG				
17	7800547	2	PLUNGER-LOW SPEED LUG				
18	7800481	AR	SNAP RING-NP96711-A				
	7800482	AR	SNAP RING-NP96711-B				
	7800483	AR	SNAP RING-NP96711-C				
	7800484	AR	SNAP RING-NP96711-D				
19	7800529	1	CLUTCH GEAR				
20	7800531	1	RING-INNER STOP, FRT SYNCHRO				
21	7800530	1	CLUTCH-SLIDING, FRONT				
22	7800918	1	OUTER STOP RING-FRONT				
23	7800479	AR	SHIM-NP91241-A				
	7800480	AR	SHIM-NP91241-B				
24	7800919	1	4TH GEAR-MAINSHAFT				
25	7800485	1	WASHER-THRUST, 3RD SPEED GEAR				
26	7800478	1	SNAP RING				
27	7800910	1	3RD GEAR-MAINSHAFT				
28	7800933	1	OUTER STOP RING-GEAR				
29	7800920	2	INNER STOP RING&PIN ASM-REAR				
30	7800911	1	CLUTCH-SLIDING, REAR				
31	7800907	1	MAINSHAFT-TRANSMISSION				
32	7800914	1	SPRING-POPPET, 4TH AND 5TH				
33	7800908	1	GEAR-2ND SPEED, MAINSHAFT				
34	7800909	1	WASHER-THRUST, 2ND SPEED				
35	7800478	1	SNAP RING				
36	7800912	1	GEAR-LOW SPEED				
37	7800954	1	NUT-DRIVE GEAR BEARING				
38	7800935	1	BEARING-DRIVE GEAR				
	7800489	1	SNAP RING-BEARING				
39	7800902	1	GEAR-DRIVE, TRANSMISSION				
40	7800491	14	ROLLER-PILOT BEARING				
41	7800492	1	WASHER-ROLLER BEARING				
42	7800490	1	SNAP RING-PILOT BEARING				
43	7800905	1	CASE-TRANSMISSION				
44	7800494	1	BEARING-MAINSHAFT, REAR				
45	7800500	1	SPACER-SPEED				
46	7800921	1	GASKET-M/S REAR BEARING RET.				
47	7800922	1	RETAINER-MAINSHAFT BEARING				
48	7800497	1	SEAL-M/S REAR BEARING RET.				
49	7800501	1	WASHER-MAINSHAFT NUT				
50	7800502	1	NUT-MAINSHAFT				
51	7800499	54	SCREW&LOCKWASHER ASM-M/S, REAR				
52	7800516	4	SCREW&LOCKWASHER ASM-C/S, FRONT				
53	7800514	2	LOCK PIN				
54	7800923	1	RETAINER-COUNTERSHAFT, FRONT				
55	7800513	1	BOLT-C/S BRG. RET. WASHER				
56	7800924	1	WASHER-C/S BEARING RETAINER-				
57	7800925	1	BEARING-COUNTERSHAFT, FRONT				
58	7800926	1	WASHER-THRUST, COUNTERSHAFT				
59	7800927	1	GEAR-COUNTERSHAFT DRIVE				
60	7800928	1	GEAR-3RD, COUNTERSHAFT				
61	7800930	1	KEY-COUNTERSHAFT DRIVE				
62	7800536	1	PLUG-FILLER				
63	7800906	1	COUNTERSHAFT				
64	7800539	1	COVER-PTO				
65	7800540	1	GASKET-PTO COVER				
66	7800537	1	PLUG-DRAIN				AR - AS REQUIRED
67	7800520	1	GASKET-COUNTERSHAFT, REAR				

Clutch Housing & Transmission Reverse Unit

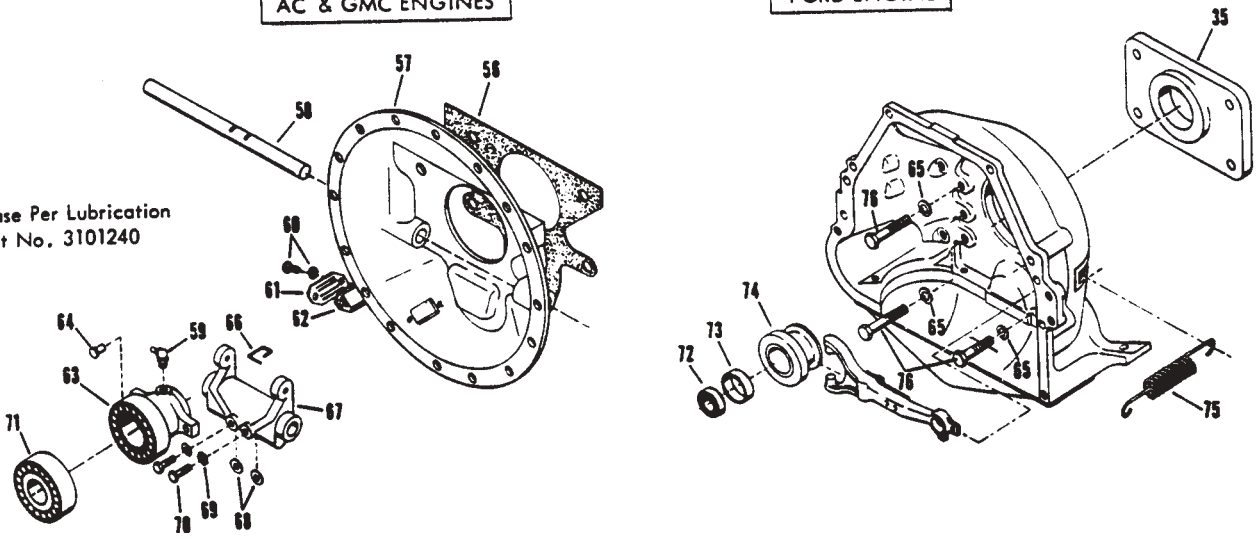
5-Speed Transmission



AC & GMC ENGINES

FORD ENGINE

Grease Per Lubrication
Chart No. 3101240



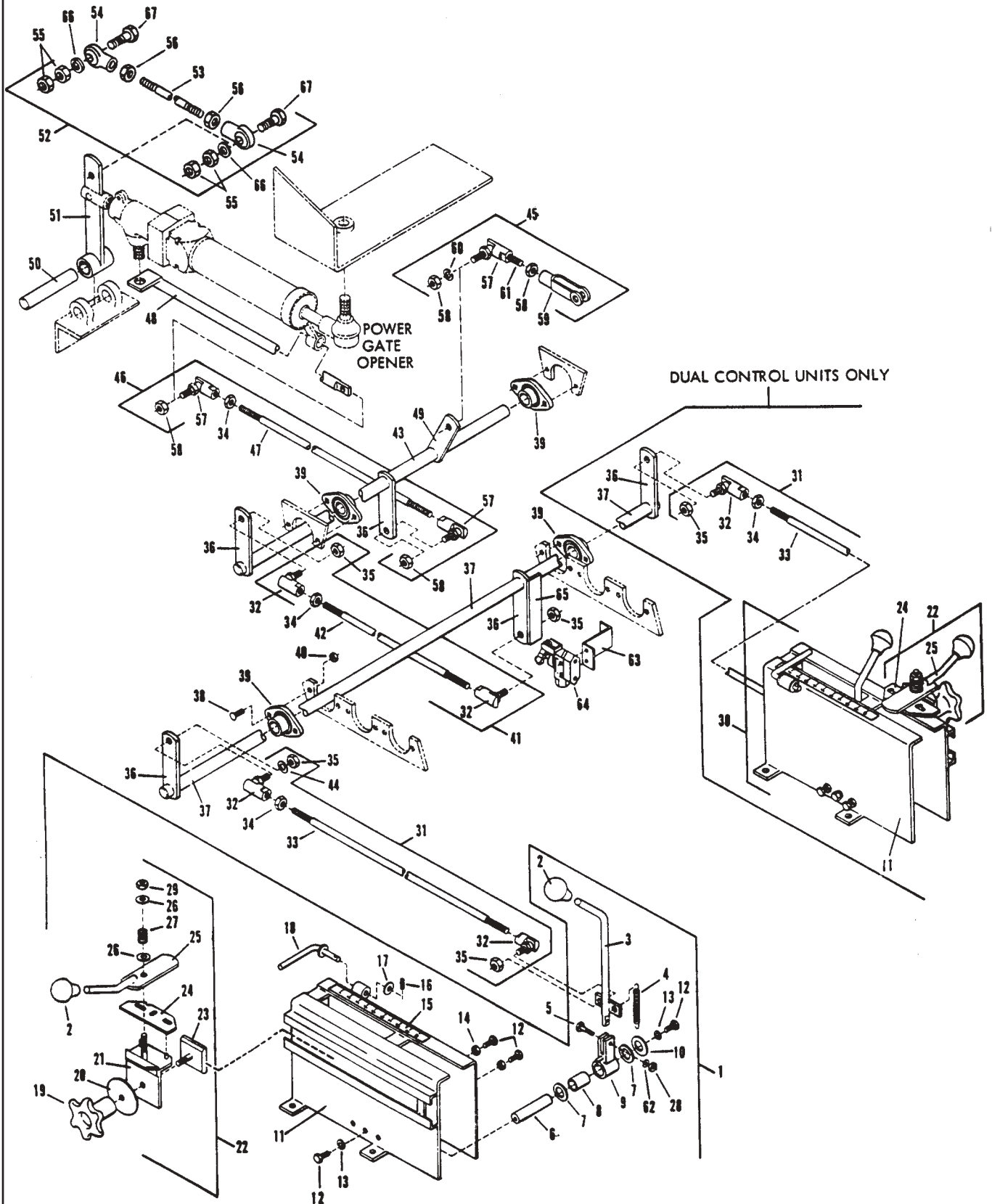
Clutch Housing & Transmission Reverse Unit

5-Speed Transmission

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7800650	1	PLUG-NEUTRAL SWITCH	69	7800667	2	WASHER-LOCK,EXTERNAL TOOTH
2	7800650	1	GASKET-NEUTRAL SWITCH	70	7800666	2	BOLT-YOKE
3	7800647	1	COVER-REVERSE	71	3110077	1	PILOT BEARING-FORD+AC ENGINES
4	7800649	3	COVER SCREW + LOCKWASHER		6420112	1	PILOT-6MC ENGINE
5	7800648	1	GASKET-REVERSE BOX COVER	72	6420184	1	BEARING-SINGLE ROW BALL,2 SMLD
6	7800646	1	ROLL PIN-SHIFT FORK	73	3110913	1	SLEEVE-PILOT BEARING
7	7800645	1	FORK-FORWARD + REVERSE	74	6410068	1	BEARING-THRCWOUT,FORD ENGINE
8	7800563	2	BALL-POPPET	75	3110472	1	SPRING-RETURN,CLUTCH
9	7800643	1	SPRING-FOPPET	76	6001072	4	SCREW-HEX,G.56NCX4.00,GA5,PD
10	7800640	1	SHIFT RAIL-FORWARD/REVERSE				
11	7800641	1	SEAL-OIL,SHIFT RAIL				
12	7800493	1	SNAP RING-WASHER				
13	7800492	1	WASHER=NEEDLE RETAINER				
14	7800491	14	NEEDLES-DRIVE GEAR				
15	7800629	1	GEAR-MAIN DRIVE				
16	7800489	1	SNAP RING-DRIVE GEAR BEARING				
17	7800630	1	BEARING-DRIVE GEAR				
18	7800632	1	NUT-DRIVE GEAR BEARING				
19	7800621	1	GEAR-REVERSE OUTPUT,MAIN SHAFT				
20	7800623	1	GEAR-SLIDING CLUTCH				
21	7800624	1	GEAR-CLUTCH				
22	7800625	AR	SNAP RING-CLUTCH GEAR,117-19-A				
	7800626	AR	SNAP RING-CLUTCH GEAR,117-19-B				
	7800627	AR	SNAP RING-CLUTCH GEAR,117-19-C				
	7800628	AR	SNAP RING-CLUTCH GEAR,117-19-D				
23	7800653	4	SCREW-TRANS CASE/REVERSE BOX				
24	7800652	1	GASKET-TRANS CASE/REVERSE BOX				
25	7800605	1	HOUSING-REVERSE BOX				
26	7800654	2	PLUG-DRAIN				
27	7800644	1	PLUG-SHIFT RAIL				
28	7800660	4	MOUNTING SCREW-BELL HOUSING				
29	7800493	1	SNAP RING-WASHER				
30	7800492	1	WASHER-NEEDLE RETAINER				
31	7800491	14	NEEDLE-DRIVE GEAR				
32	7800902	1	GEAR-MAIN DRIVE,REVERSE BOX				
33	7800489	1	SNAP RING-DRIVE GEAR BEARING				
34	7800488	1	BEARING-DRIVE GEAR				
35	3110961	1	PLATE-FORD TRANS. ADAPTER				
36	7800637	1	SEAL-OIL,DRIVE GEAR RETAINER				
37	7800638	1	GASKET-D/G BEARING RETAINER				
38	7800636	1	RETAINER-DRIVE GEAR BEARING				
39	7800639	4	SCREW-D/G BEARING RETAINER				
40	7800607	1	COUNTERSHAFT-REVERSE BOX				
41	7800610	2	WASHER-THRUST,CLUSTER GEAR				
42	7800609	2	WASHER-ROLLER RETAINER,C/S				
43	7800491	14	ROLLER-C/SHAFT,REVERSE BOX				
44	7800606	1	GEAR-REVERSE BOX CLUSTER				
45	7800611	1	SPACER-C/S NEEDLES				
46	7800613	1	SCREW+LOCKWASHER-C/SHAFT				
47	7800612	1	LOCK-COUNTERSHAFT				
48	7800656	1	MAGNET-CHIP COLLECTOR				
	7800657	1	CLIP-MAGNETIC CHIP COLLECTOR				
49	7800615	1	SHAFT-REVERSE IDLER				
50	7500620	1	KEY-REVERSE IDLER SHAFT				
51	7800610	2	WASHER-THRUST,REVERSE IDLER				
52	7800609	2	WASHER-ROLLER RETAINER				
53	7800491	14	ROLLER-REVERSE IDLER				
54	7800614	1	GEAR-REVERSE IDLER				
55	7800619	1	SPACER-REVERSE IDLER				
56	7800659	1	GASKET-BELL HOUSING TO REV BOX				
57	7800903	1	BELL HOUSING				
58	7800907	1	SHAFT-CLUTCH RELEASE				
59	0109462	1	FITTING-LUBE,0.12X90DEG				
60	7800671	2	SCREW+LOCKWSHR-ACCESS OEPNING				
61	7800669	1	COVER-ACCESS OPENING				
62	7800670	1	GASKET-ACCESS OPENING COVER				
63	7800672	1	SLEEVE+BEARING ASM-CLUTCH REL				
64	7800664	2	PAD-CLUTCH YOKE				
65	0120898	4	WASHER-LOCK,0.56,SPRING,PD				
66	7800665	2	SPRING-PULL BACK				
67	7800663	1	YOKE-CLUTCH RELEASE				
68	7800668	2	WASHER-KEY				

AR = AS REQUIRED

Hopper Controls

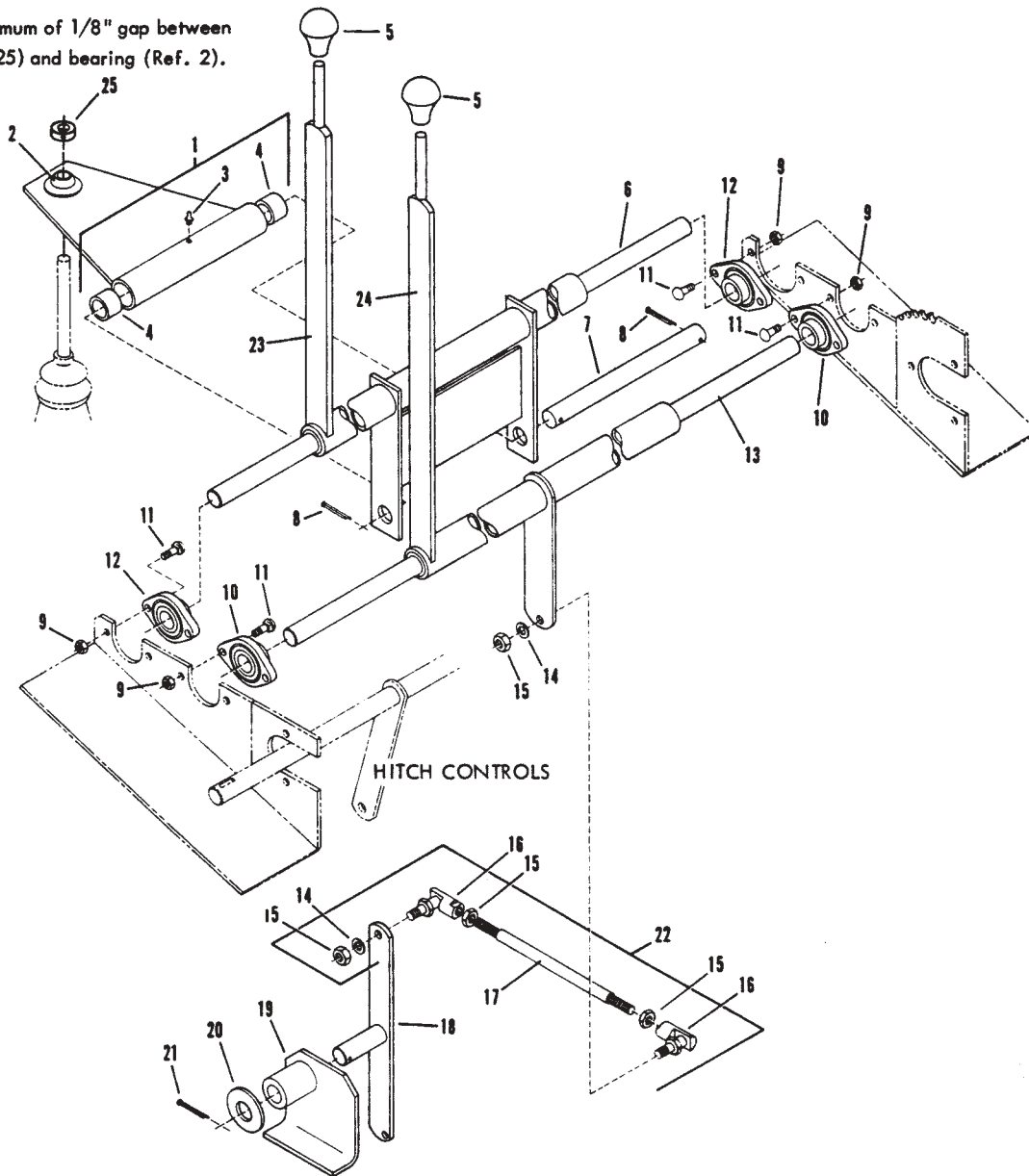


Hopper Controls

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3190313	1	OPERATOR ASM-HPR CONT,LEFT				
2	3140029	AR	KNOB-RUBBER				
3	3190339	AR	HANDLE+CLIP ASM-UPPER CONTROL				
4	3190350	AR	SPRING-HANDLE,OPERATOR CONTROL				
5	0121913	1	SCREW-HEX,0.25NCX1.25,GR2,PD				
6	3190345	AR	SHAFT-PIVOT,CONTROL HANDLE				
7	6000077	AR	WASHER-WAVE,SS,0.88ID				
8	6000264	AR	BUSHING-OILITE,0.88X1.50				
9	3190342	AR	HANDLE HUB ASM-CONTROL,BOTTOM				
10	0103347	AR	WASHER-FLAT,0.88				
11	3190315	1	FRAME ASM-CONTROL,OPER,LEFT				
	3190316	1	FRAME ASM-CONTROL,OPER,RIGHT				
12	0122007	AR	SCREW-HEX,0.31NCX0.75,GR2,PD				
13	0120214	AR	WASHER-LOCK,0.31,SPRING,PD				
14	0120376	AR	NUT-HEX,C.31NC,PD				
15	3101064	AR	SCALE-OPERATOR,POSITION				
16	0457008	AR	PIN-SPRING,0.19X1.50,HV,PN				
17	0446363	AR	WASHER-FLAT,0.31,PD				
18	3190367	AR	BAR ASM-LOCKOUT				
19	3300120	AR	HAND WHEEL				
20	3190337	AR	DISC-REINFORCEMENT,CLAMP				
21	3190330	AR	BASE ASM-VERNIER SLIDE				
22	3190323	1	SLIDE ASM-VERNIER,LEFT				
	3190324	1	SLIDE ASM-VERNIER,RIGHT				
23	3190334	AR	PLATE + PIN ASM-CLAMP				
24	3190325	1	PLATE-STOP,VERNIER SLIDING-LT				
	3190326	1	PLATE-STOP,VERNIER SLIDING-RT				
25	3190328	1	LEVER-VERNIER,LEFT				
	3190327	1	LEVER-VERNIER,RIGHT				
26	0120388	AR	WASHER-FLAT,0.375,WIDE				
27	3100073	AR	SPRING-COMP,0.56IDX1.00LG				
28	0120375	1	NUT-HEX,0.25NC				
29	0274993	1	NUT-HEX,LOCK,0.38NC,EA,PD				
30	3190314	1	OPERATOR ASM-HPR CONT,RIGHT				
31	3150578	AR	LINKAGE ASM-REAR,HOPPER CONT				
32	6100126	AR	JOINT-BALL,0.44NF				
33	3150581	AR	LINKAGE-REAR,HOPPER CONTROL				
34	0272123	AR	NUT-HEX,JAN,0.44NF,PD				
35	0271506	AR	NUT-HEX,0.44NF,PD				
36	3150552	AR	AFM-GATE OPENER				
37	3150574	1	SHAFT-POWER GATE,SNGL + DUAL				
38	6100277	8	SCREW-RDSONKBLT,0.31NCX1,GR5				
39	6420106	4	FLANGE BEARING-BALL,2 BOLT				
40	9418943	8	NUT-HEX,LOCK,0.31NC				
41	3150697	1	LINKAGE ASM				
42	3150696	1	LINKAGE				
43	3150572	1	SHAFT-PWR GATE + HOPPER VALVE				
44	0120383	AR	WASHER-LOCK,0.44				
45	3150695	1	LINKAGE-HOPPER VALVE				
46	3150580	1	LINKAGE ASM-CONTROL,HOPPER				
47	3150583	1	LINKAGE-HOPPER				
48	3190287	1	ROD ASM-CONTROL,HPR CYL				
49	3150553	1	ARM-HOPPER VALVE				
50	3180544	1	PIN-PIVOT ARM ASM				
51	3190285	1	ARM ASM-PIVOT,FRONT MOUNT				
52	3140632	1	LINKAGE ASM-FRONT,HOPPER CONT				
53	3140633	1	LINKAGE-FRONT,HOPPER CONTROL				
54	6100325	2	ROD END-FEMALE,0.62NF				
55	0124589	4	NUT-HEX,0.62NC,PD				
56	0121358	2	NUT-HEX,C.62NF,PD				
57	6100138	AR	JOINT-BALL,0.375NF				
58	0120369	AR	NUT-HEX,0.375NC,PD				
59	4480510	AR	CLEVIS-YGKE				
60	0120382	AR	WASHER-LOCK,0.375,SPRING,PD				
61	3190501	AR	ROD-LINK,SHUTTLE SHIFT				
62	0120380	1	WASHER-LOCK,0.25				
63	3360677	1	BRACKET-MOUNTING,ACT. SWITCH				
64	6700748	1	SWITCH-ACTUATING,SPREAD ROLL				
65	3111046	1	BAR-SWITCH STOP				AR - AS REQUIRED
66	0121574	2	WASHER-LOCK,0.62,SPRING,PD				
67	0428697	2	SCREW-HEX,0.62NCX2.50,GR2,PD				

5-Speed Shifting Installation

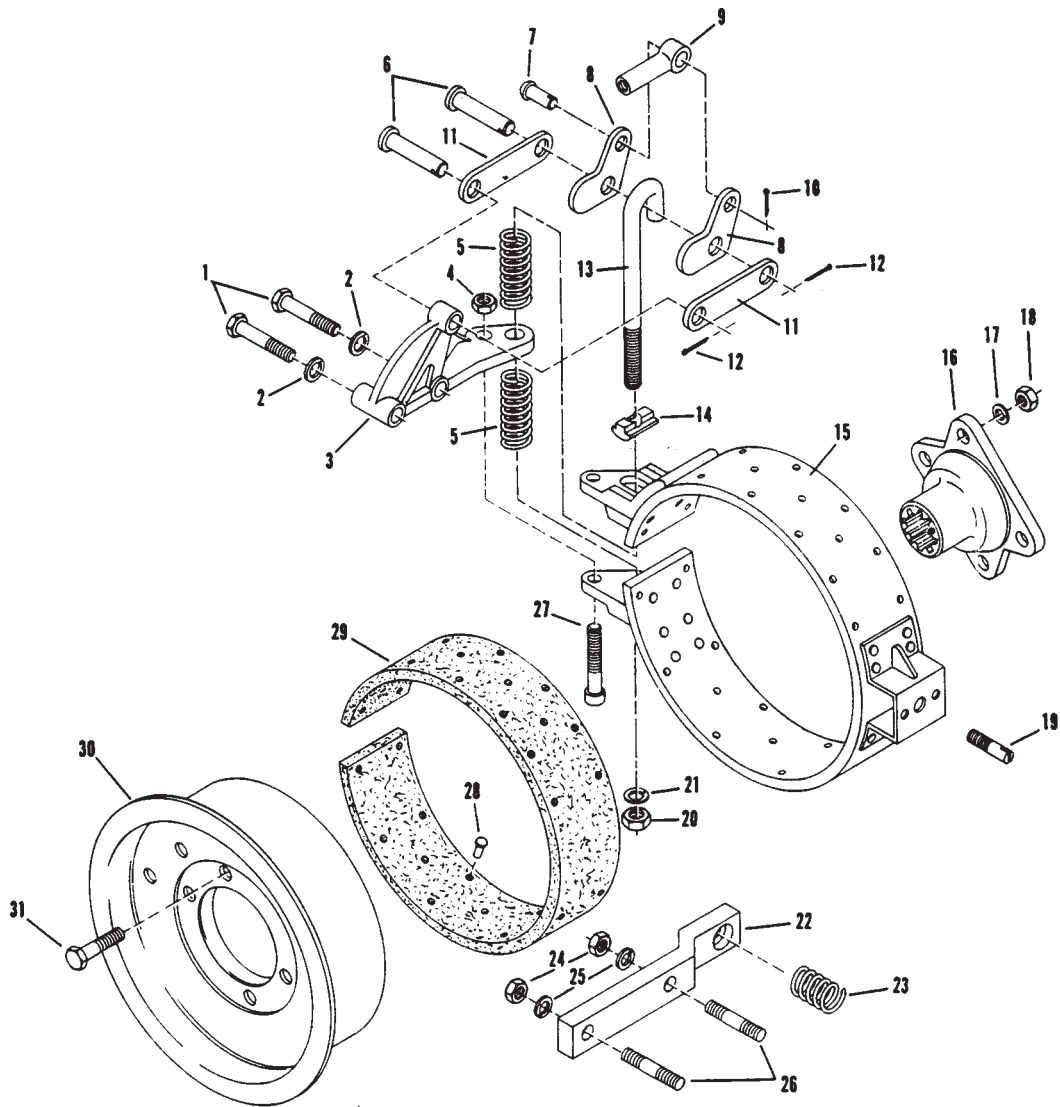
NOTE: Minimum of 1/8" gap between collar (Ref. 25) and bearing (Ref. 2).



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3150710	1	PLATE ASM-MECH SHIFTER, AC 649T	16	6100126	2	JOINT-BALL, 0.44NF
	3150711	1	PLATE ASM-MECH SHFT, GMC & FORD	17	3150581	1	LINKAGE-SHUTTLE, AC 649T
2	6420120	1	BEARING-BALL JOINT		3150698	1	LINKAGE-SHUTTLE, GMC & FORD
3	9411027	1	FITTING-LUBE	18	3150719	1	ASSEMBLY-SHUTTLE PIVOT
4	3150247	AR	BEARING-PIVOT	19	3150722	1	BRACKET ASM-MT, LOWER PIVOT
5	3140029	AR	KNOB-RUBBER	20	0131002	1	WASHER-FLAT, 1.00ED X 2.50 OD
6	3150540	1	SHAFT ASM-SHIFTER	21	0103411	1	PIN-COTTER, 0.19X2.00LG, PD
7	3150521	1	SHAFT-PIVOT, MECH SHIFTER	22	3150578	2	LINKAGE ASM-SHUTTLE SHIFT, AC
8	0103389	2	PIN-COTTER, 0.12X2.00LG, PD		3150699	1	LINKAGE ASM-SHUTT. SFT, GMC&FORD
9	9411638	9	NUT-HEX, LOCK, 0.31NC, EA, PD	23	3150536	1	LEVER ASM-SHIFTER
10	6420106	2	BEARING-FLG, 2 BLT, 1.00IN	24	3150519	1	LEVER ASM-SHUTTLE
11	3100619	8	BOLT-CARRIAGE, 0.31NCX1.25, GR5	25	6000964	1	COLLAR-RETAINER, 0.75 I.D.
12	3150584	2	ASSEMBLY-BEARING&BUSHING				
	6420130	4	FLANGE-PRESS STEEL, 2 BOLT				
13	3150667	1	SHAFT ASM-SHUTTLE				
14	0120383	2	WASHER-LOCK, 0.44, SPRING, PD				
15	0271506	4	NUT-HEX, 0.44NF, PD				

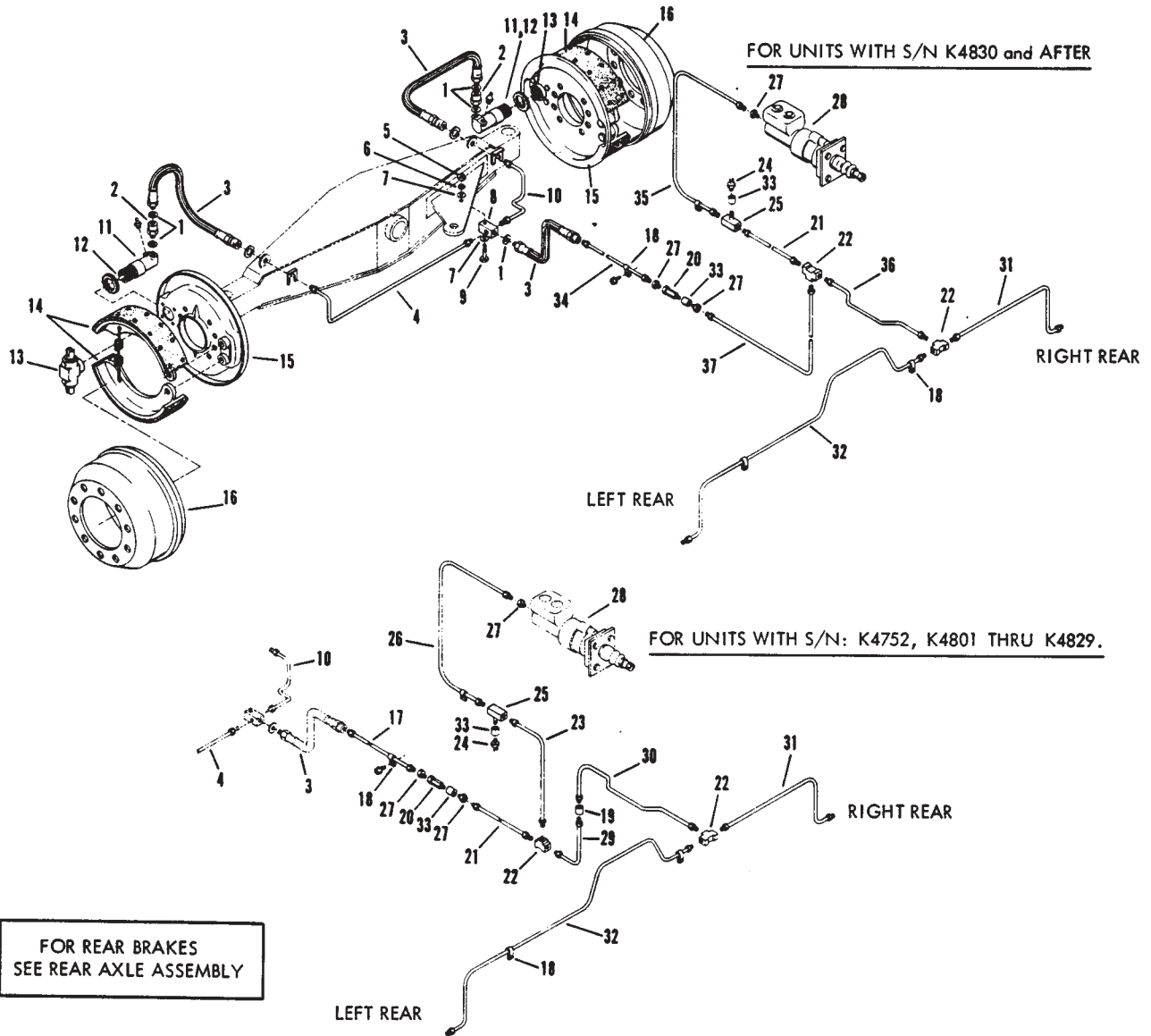
AR - AS REQUIRED

Parking Brake Assembly - 5-Speed Transmission



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	7800197	2	SCREW-BRAKE BRKT	20	7800599	1	NUT-BOLT ADJUSTING
2	7800944	2	WASHER-LOCK	21	7800392	1	WASHER-LOCK, BRK ADJ BOLT NUT
3	7800937	1	BRACKET-BRAKE	22	7800578	1	BAR-SUPT, BRAKE ANCHOR
4	7800601	1	NUT-BRAKE BAND	23	7800183	1	SPRING-ANCHOR CLIP
5	7800602	2	SPRING-RELEASE	24	7800021	2	NUT-STUD
6	7800595	2	PIN-CLEVIS	25	7800944	2	WASHER-LOCK, BRAKE SUPT
7	7800174	1	PIN-CLEVIS, DRAW ROD	26	7800951	2	SCREW-BRAKE ANCHOR BAR
8	7800592	2	LEVER-BRAKE CAM	27	7800600	1	SCREW-BAND LOCK
9	7800173	1	END-ADJUSTING	28	7800589	26	RIVET-LINING
10	7800170	1	PIN-COTTER, DRAW ROD	29	7800938	1	LINING-BRAKE
11	7800594	2	LINK-SPACER	30	7800943	1	DRUM-BRAKE
12	7800596	2	PIN-COTTER, SPACER, CLEVIS	31	7800939	4	BOLT-BRAKE DRUM
13	7800591	1	BOLT-ADJUSTING				
14	7800593	1	SHOE-CAM LEVER				
15	7800942	1	BAND-BRAKE				
16	7800940	1	FLANGE-COMPANION				
17	7800945	4	FLANGE-COMP, BRAKE DRUM SPACER				
18	7800941	4	FLANGE-COMP, BRAKE DRUM NUT, CL				
19	7800949	1	SCREW-ANCHOR CLIP				

Hydraulic Brake Lines

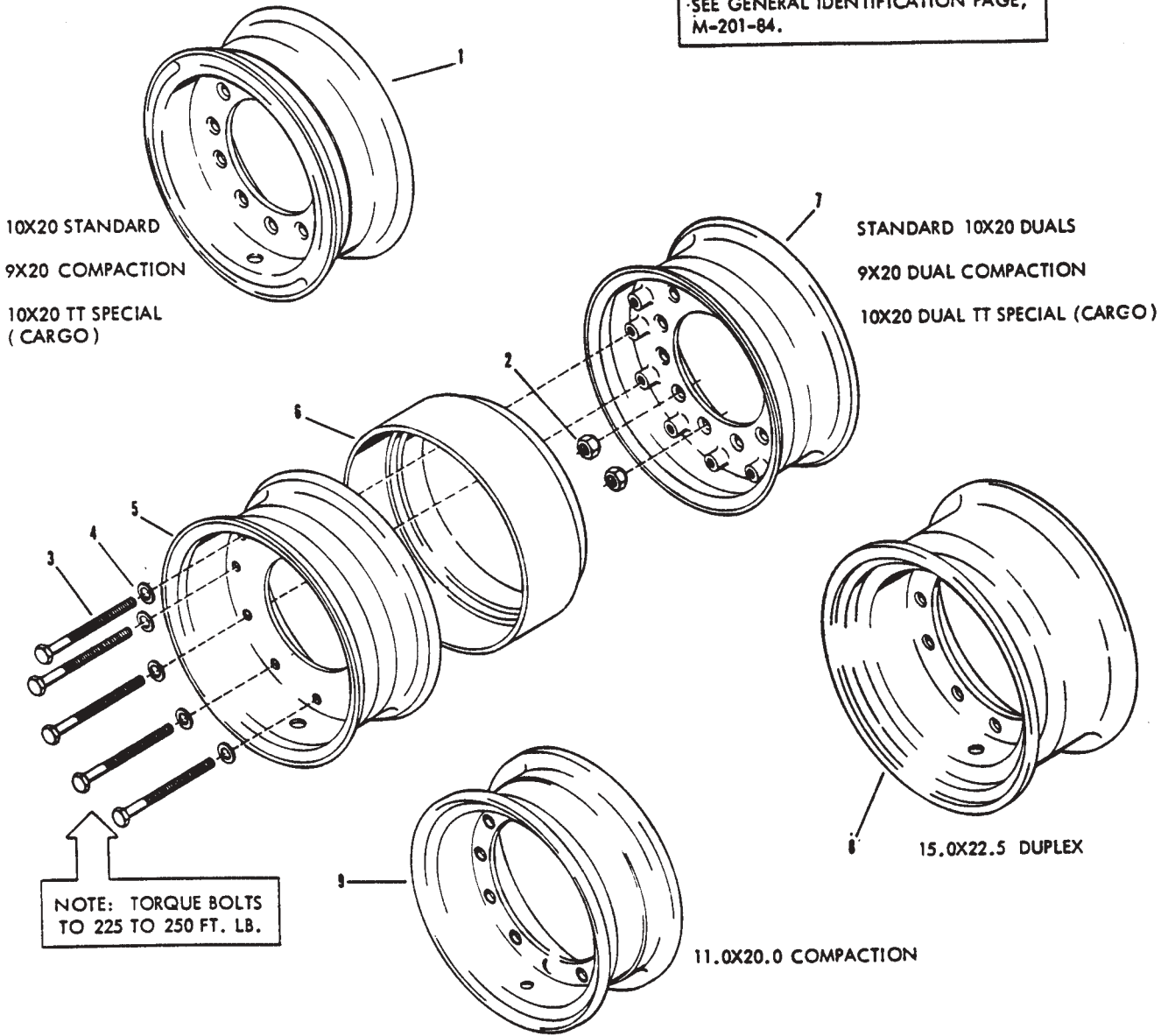


REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3110139	5	GASKET	22	3180038	2	TEE-0.25 INCH
2	3100437	2	CONNECTOR	23	3180494	1	LINE ASM-BRAKE,ACTU TO TEE
3	3180245	3	HOSE-BRAKE,12IN,FRONT AXLE	24	6700656	1	SWITCH-STOP LIGHT
4	3180554	AR	LINE ASM-BRAKE,40.5LG,LH FRNT	25	0442346	1	TEE-0.12NPTHX0.25TUBE FEM
	3180563	AR	LINE ASM-BRAKE,55.5LG,LH FRONT	26	3180495	1	LINE ASM-BRAKE,TEE TO MAST CYL
5	0120377	1	NUT-HEX,0.38NC,PD	27	0442321	3	CONNECTOR-FLD TUBE,.25T x .12T
6	0120382	1	WASHER-LOCK,0.38,SPRING,PD	28	6601117	1	VALVE-POWER BRAKE,HYD BOOST
7	0120380	2	WASHER-FLAT,0.38,PD	29	3180541	1	LINE ASM-BRAKE,ACTU VLV TO TEE
8	3110514	1	TEE-FITTING,0.44NC	30	3180488	1	LINE ASM-BRAKE,AXLE-ACTU VLV
9	0122168	1	SCREW-HEX,0.38NC X 1.75,GR2,PD	31	3180579	1	LINE ASM-BRAKE,RIGHT,REAR AXLE
10	3180555	AR	LINE ASM-BRAKE,15.5LG,RH FRONT	32	3180580	1	LINE ASM-BRAKE,LEFT,REAR AXLE
	3180562	AR	LINE ASM-BRAKE,22.0LG,RH FRONT	33	0105408	2	COUPLING-PIPE,0.12NPT,PN
11	7630183	2	CYLINDER ASM-WHEEL	34	3180585	1	LINE ASM-BRAKE,CHK VLV,FRT AXL
12	7630184	2	HOUSING ASM-ACTUATOR	35	3180584	1	LINE ASM-BRAKE,TEE TO MAST CYL
13	7630186	2	WEDGE ASSEMBLY-BRAKE	36	3180583	1	LINE ASM-BRAKE,TEE TO REAR AXLE
14	7630185	2	SHOE+LINING ASM-BRAKE W/SPRING	37	3180586	1	LINE ASM-BRAKE,CHK VLV TO TEE
15	7630167	2	BACKING PLATE ASM-BRAKE,FRONT				
16	7630162	2	DRUM-BRAKE,FRONT AXLE				
17	3180491	1	LINE ASM-BRAKE,CHK VLV,FRT AXL				
18	6000055	AR	CLAMP-0.31IN TUBE,RUBBER				
19	3180039	1	COUPLING-0.25 INCH				
20	6601189	1	VALVE-CHECK,BRAKE RESIDUAL				
21	3180490	1	LINE ASM-BRAKE,TEE TO CHK VLV				

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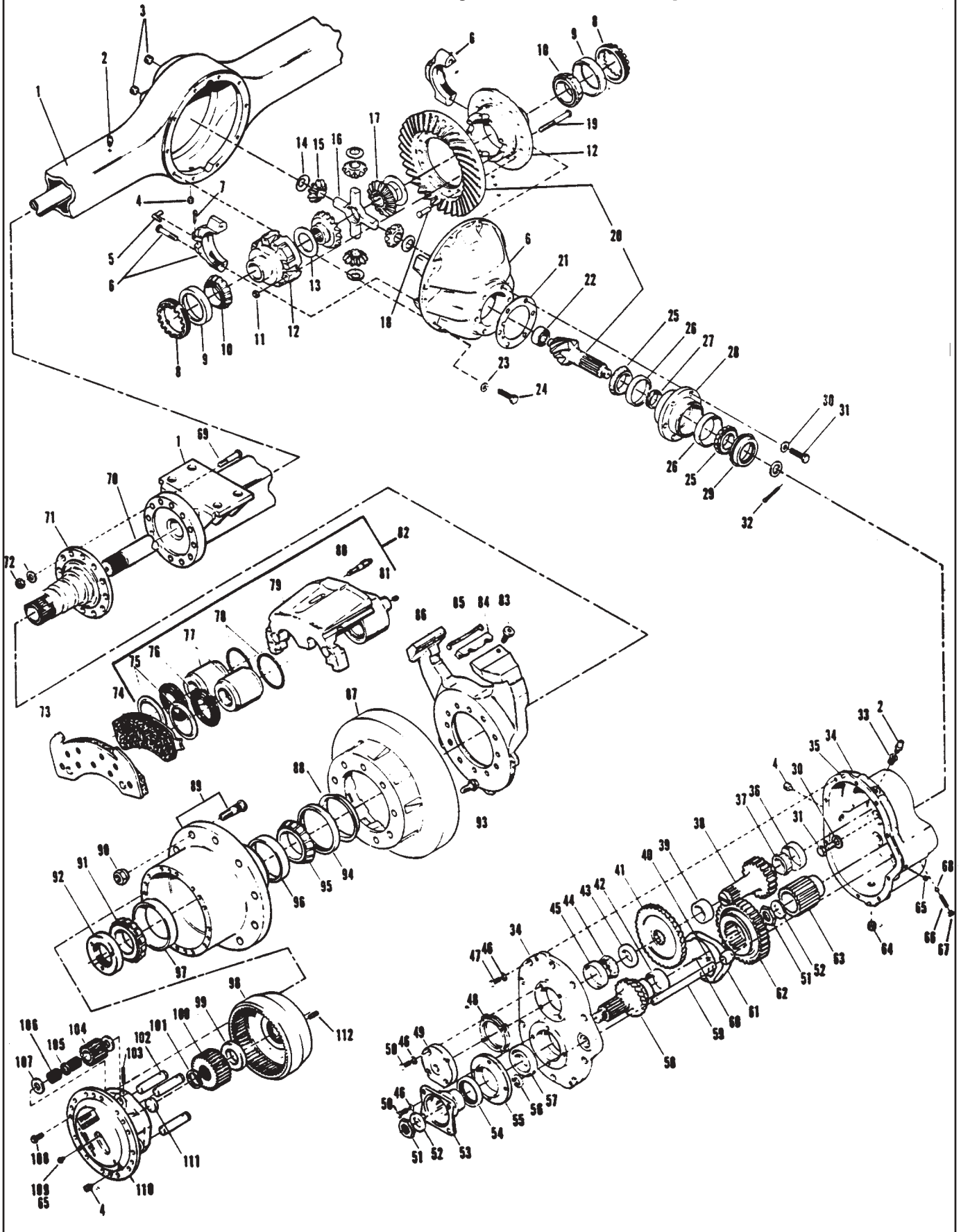
Wheel Assemblies - Spicer Rear Axle

NOTE: FOR TIRES AND FRONT WHEELS
SEE GENERAL IDENTIFICATION PAGE,
M-201-84.



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	3101250	2	RIM ASM-20X7.5,10 HOLE,16.62BC				
2	3100418	10	NUT-WHEEL,RIGHT				
3	6100299	18	SCREW-HEX,0.75NC x 11.00,GR8				
4	0131046	18	WASHER-LOCK,0.75,SPRING,PD				
5	3101252	2	RIM ASM-OUTER,DUAL WHEEL				
6	3100977	2	RING ASM-SPACER				
7	3101221	2	WHEEL ASM-INNER,DUAL				
8	3101226	2	RIM ASM-DUPLEX,11.75X22.5				
9	3101216	2	RIM ASM-COMPACTION,20.0 X 8.0				

Rear Axle Assembly With Brakes - Spicer

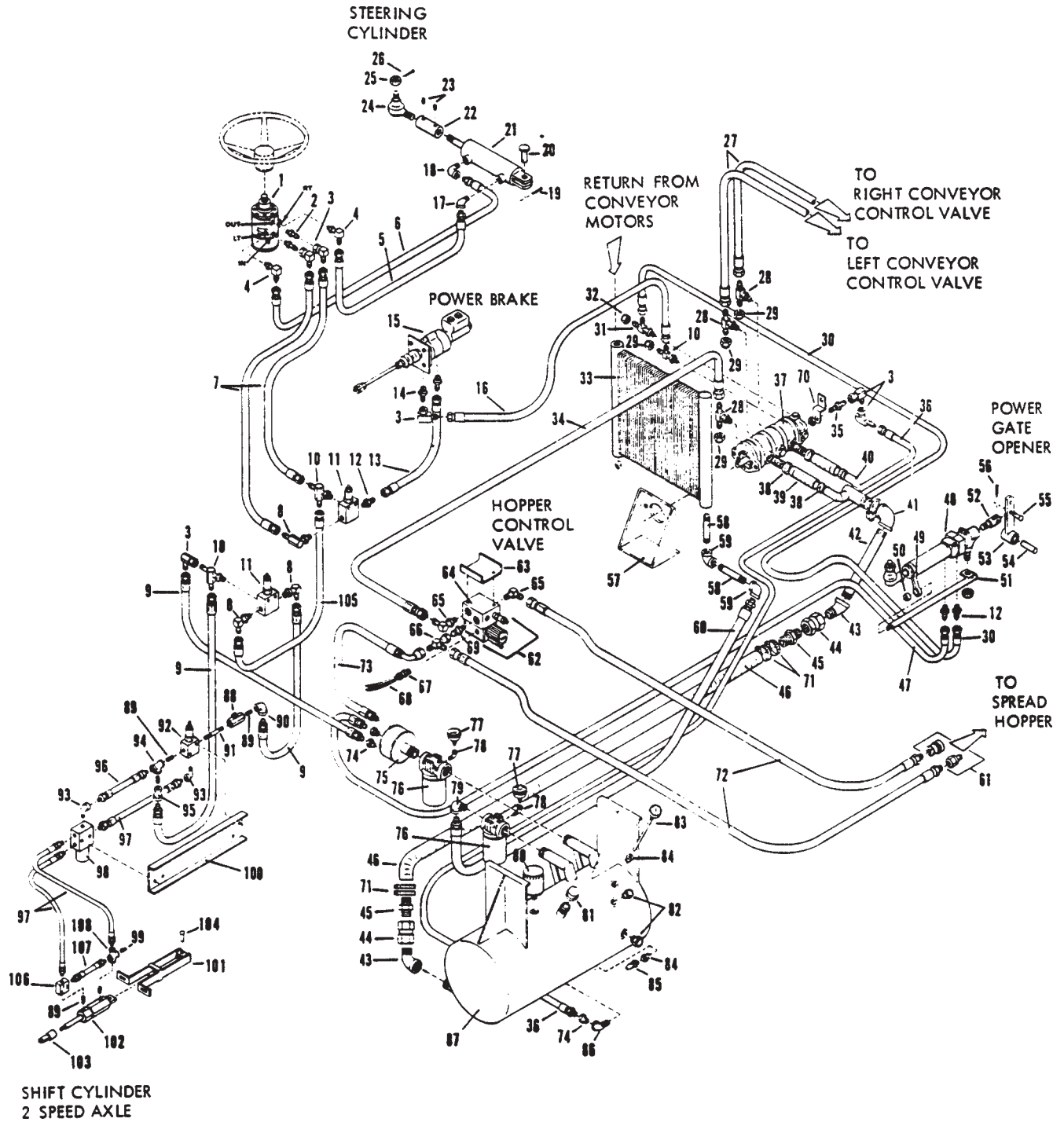


Rear Axle Assembly With Brakes - Spicer

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
	6415107	1	AXLE ASM-SPICER, COMPLETE	45	7620294	2	BEARING-CUP
1	7620242	1	HOUSING ASM-AXLE, SPICER	46	7620292	36	WASHER-FLAT
2	7620312	2	VENT-SPCR	47	7620172	10	BOLT-HEX
3	7620236	2	PLUG-PIPE RECESSED DR, SPCR	48	7620184	AR	SHIM-ADJ., .005
4	7620234	3	PLUG-PIPE RECESSED DR, MAG		7620235	AR	SHIM-ADJ., .007
5	7620233	2	LOCK-BEARING ADJ RING, SPCR		7620288	AR	SHIM-ADJ., .020
6	7620219	1	CARRIER SUB ASM, SPCR, W/BOLT	49	7620293	1	CAP-BEARING RET, STANDARD
7	7620232	2	PIN-COTTER	50	7620291	8	BOLT-HEX
8	7620220	2	RING-ADJ, DIFF	51	7620295	2	NUT-PINION
9	7620221	2	BEARING-CUP, DIFF	52	7620296	2	WASHER-FLAT
10	7620222	2	BEARING-CONE, DIFF	53	7620316	AR	END YOKE OR COMPANION FLANGE
11	7620223	8	NUT-LOCK	54	7620297	1	SEAL-OIL, INPUT
12	7620224	1	KIT-DIFF CASE ASM	55	7620298	1	CAP-BEARING RETAINER
13	7620225	2	THRUSTWASHER-DIFF GEAR	56	7620299	1	SEAL-OIL, SHIFT ROD
14	7620226	4	THRUSTWASHER-DIFF PINION	57	7620300	1	BEARING-BALL, SINGLE ROW
15	7620227	4	PINION-DIFF	58	7620301	AR	GEAR-INPUT
16	7620228	1	SHAFT-DIFF, CROSS	59	7620302	1	ROD-SHIFT
17	7620229	2	GEAR-DIFF	60	7620303	1	WIRE-LOCK
18	7620230	14	RIVET-SOLID	61	7620304	1	FORK-SHIFT
19	7620231	8	BOLT-HEX	62	7620305	AR	GEAR-OUTPUT
20	7620210	AR	RING GEAR&PINION ASM-5.29	63	7620306	1	SLEEVE-TRANSMISSION SHAFT
	7620211	AR	RING GEAR&PINION ASM-.38	64	7620307	1	PLUG-PIPE, RECESSED DR, SPCR
	7620212	AR	RING GEAR&PINION ASM-6.17	65	7620308	2	PLUG-PIPE, SLOTTED, SPCR
	7620213	AR	RING GEAR&PINION ASM-6.67	66	7620309	1	SPRING-PRESS CLOSED & GRD
	7620214	AR	RING GEAR&PINION ASM-7.17	67	7620310	1	BOLT-HEX
21	7620216	AR	SHIM-.010	68	7620311	1	BALL-STEEL
	7620217	AR	SHIM-.030	69	7620241	12	BOLT-HEX, MTG, DISC BRAKE
	7620218	AR	SHIM-.005	70	7620243	2	SHAFT-AXLE, RH R. LH, SPICER
22	7620215	1	BEARING ASM-STRAIGHT	71	7620244	2	SPINDLE-WHEEL BEARING
23	7620237	10	WASHER-FLAT, CARRIER MTG	72	7620246	12	NUT-LOCK
24	7620238	6	BOLT-HEX 1.5IN, CARRIER MTG	73	7620258	1	LINING-BRAKE, OUTER
	7620239	2	BOLT-HEX 2.0IN, CARRIER MTG	74	7620257	1	LINING-BRAKE, INNER
	7620240	2	BOLT-HEX 2.5IN, CARRIER MTG	75	7620256	2	SHIELD-DUST BOOT
25	7620209	2	BEARING-CONE, INNER	76	7620254	2	DUST BOOT-BRAKE FLUID
26	7620208	2	BEARING-CUP, INNER	77	7620253	2	PISTON-SPICER
27	7620186	1	SPACER-PINION BRG	78	7620251	2	SEAL-PISTON, BRAKE FLUID
	7620187	AR	SPACER-PINION BRG, .5135	79	7620250	1	CALIPER HOUSING
	7620188	AR	SPACER-PINION BRG, .5165	80	7620249	1	SCREW-BLEEDER
	7620189	AR	SPACER-PINION BRG, .5195	81	7620248	2	SEAT-TUBE INSERT
	7620190	AR	SPACER-PINION BRG, .5225	82	7620317	1	CALIPER ASM-BRAKE FLUID
	7620191	AR	SPACER-PINION BRG, .5245	83	7620259	1	SCREW-SOCKET HEAD, SUPT
	7620192	AR	SPACER-PINION BRG, .5255	84	7620260	1	KEY-CALIPER SUPPORT
	7620193	AR	SPACER-PINION BRG, .5265	85	7620261	1	SPRING-CMPR, CALIPER SUPT
	7620194	AR	SPACER-PINION BRG, .5275	86	7620262	1	BRACKET-CALIPER, LH
	7620195	AR	SPACER-PINION BRG, .5285		7620263	1	BRACKET-CALIPER, RH
	7620196	AR	SPACER-PINION BRG, .5295	87	7620265	1	DISC-SPICER
	7620197	AR	SPACER-PINION BRG, .5305	88	7620315	1	HUB SLINGER, SPICER
	7620198	AR	SPACER-PINION BRG, .5315	89	7620269	AR	HUB AND ROTOR ASM-WHEEL
	7620199	AR	SPACER-PINION BRG, .5325	90	7620270	12	NUT-WHEEL MTG, .625-18, RH
	7620200	AR	SPACER-PINION BRG, .5335		7620271	10	NUT-WHEEL MTG, .750-16, RH
	7620201	AR	SPACER-PINION BRG, .5345	91	7620273	1	BEARING-CONE, OUTER
	7620202	AR	SPACER-PINION BRG, .5355	92	7620274	1	NUT-LOCK, BRG ADJ
	7620203	AR	SPACER-PINION BRG, .5375	93	7620264	9	BOLT-HEX
	7620204	AR	SPACER-PINION BRG, .5395	94	7620266	1	SEAL-OIL, HUB
	7620205	AR	SPACER-PINION BRG, .5405	95	7620267	1	BEARING-CONE, INNER
	7620206	AR	SPACER-PINION BRG, .5435	96	7620268	1	BEARING-CUP, INNER
	7620207	AR	SPACER-PINION BRG, .5485	97	7620272	1	BEARING-CUP, OUTER
28	7620185	1	CAP-BEARING RETAINER	98	7620276	1	GEAR-PLANETARY RING
29	7620182	1	SEAL-OIL	99	7620277	1	SPACER-FLAT, RIGID AXLE, SPICER
30	7620245	24	WASHER-FLAT	100	7620278	1	GEAR-SPUR SUN, SPICER
31	7620178	12	BOLT-HEX, RANGE BOX	101	7620279	1	SNAP RING-RIGID
32	7620175	1	PIN-COTTER	102	7620280	3	SHAFT-PLANET GEAR
33	7620313	1	BUSHING-STEEL	103	7620282	3	PIN-ROLL
34	7620180	AR	CASE SUB ASM-TRANSFER	104	7620283	3	GEAR-SPUR PLANET
35	7620183	2	PIN-DOWEL	105	7620284	3	WASHER-PLANETARY GEAR
36	7620314	2	BEARING-CUP	106	7620285	150	BEARING-NEEDLE ROLLER
37	7620177	2	BEARING-CONE	107	7620286	6	SPACER-FLAT
38	7620176	AR	GEAR-SPUR	108	7620287	18	SCREW-HEX, SELF LOCKING
39	7620179	1	SPACER-STEEL	109	7620289	1	VENT
40	7620174	1	SCREW-SET	110	7620290	1	FLANGE-DRIVE, PLANETARY, SPICER
41	7620173	1	GEAR-HELICAL	111	7620281	1	WASHER-DRIVE FLANGE
42	7620181	1	BEARING ASM-STRAIGHT	112	7620275	1	PIN-ROLL
43	7620252	1	SPACER-STEEL				
44	7620255	2	BEARING-LONE				

AR - AS REQUIRED

Hydraulic System

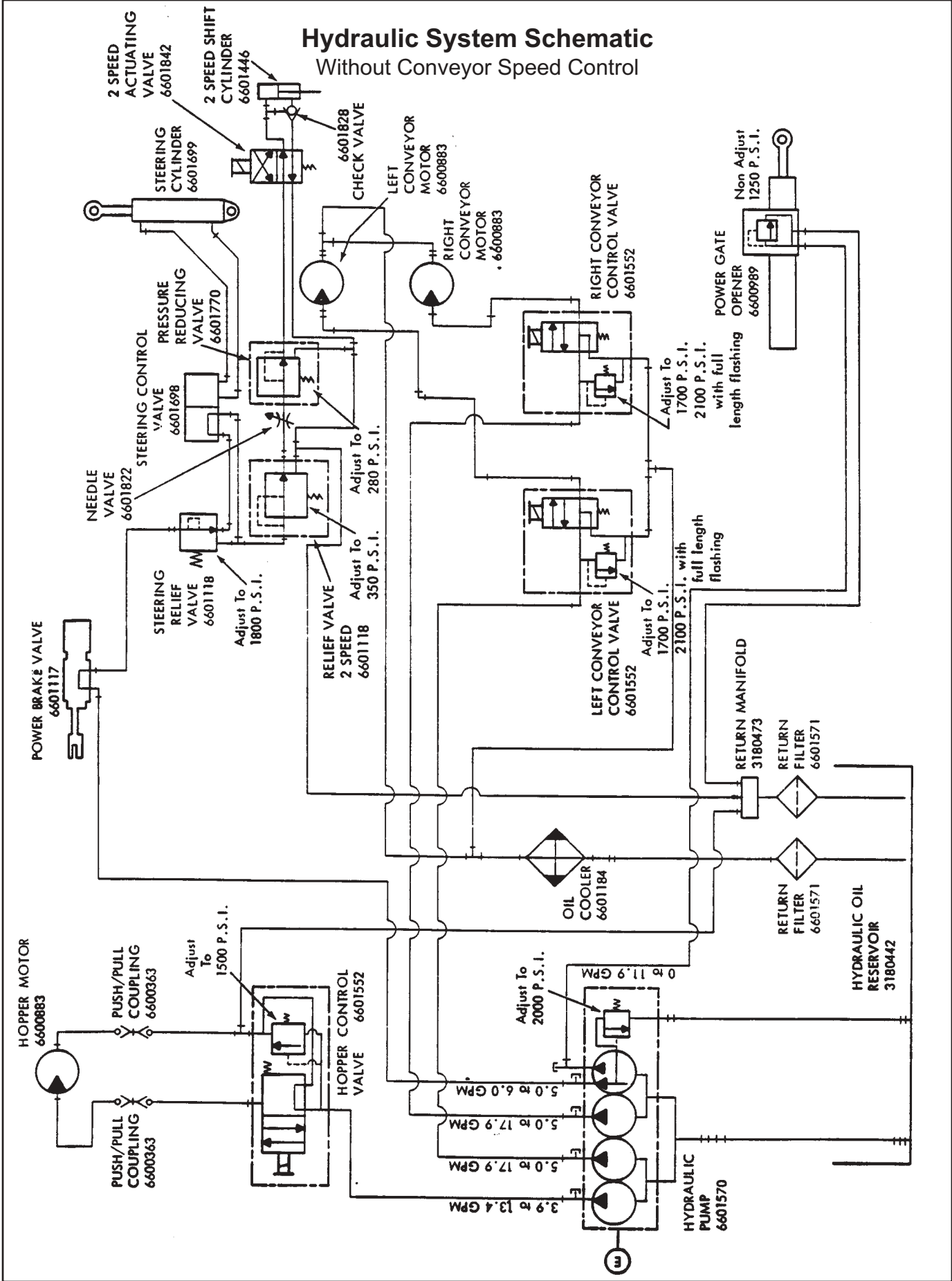


Hydraulic System

REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6601698	1	VALVE-STEERING CONTROL	72	6601204	2	HOSE-PRESS,HPR VLV TO COUPLING
2	6601143	2	ADAPTER-HYDR,ST,06MB-08MJ	73	6601844	1	HOSE ASM-12X31,12FJX90-12MPX
3	9410281	5	ELBOW-HYDR,90,08FJX-08NJ	74	0144034	3	BUSHING-PIPE,0.75X0.50NPT,PN
4	6601200	2	ELBOW-HYDR,90,06MB-08MJ	75	3180473	1	MANIFOLD ASM-RETURN,HYDRAULIC
5	6601202	1	HOSE-PRESS,CONT TO CYL,138IN	76	6601571	2	FILTER-RETURN LINE,1.25NPT
6	6601201	1	HOSE-PRESS,CONT TO CYL,150IN		7420219	2	REPLACEMENT ELEMENT
7	6601198	2	HOSE-PRESS,RLF VLV TO STR CONT.	77	7420183	2	INDICATOR-CONDITION,FILTER
8	9410977	1	ELBOW-HYDR,ADJ,90,08MBX-08MJ	78	0105422	2	ELBOW-PIPE,90,ST,0.12NPT,PN
9	6601401	1	HOSE-RTN,RLF TEE TO MANIFOLD	79	0108687	1	ELBOW-PIPE,90,ST,1.00NPT,PN
10	9411131	2	TEE-HYDR,08MB-08MJ-08MJ	80	6601125	1	BREATHER-RESERVOIR
11	6601118	1	VALVE-RELIEF		7430221	1	ELEMENT-REPL,BREATHER
12	9410203	3	ADAPTER-HYDR,ST,08MB-08MJ	81	0187373	1	CAP-PIPE,1.50 NPT,PN
13	6601703	1	HOSE PRESS,PWR BRK TO RLF VLV	82	6600224	2	SIGHT GAUGE
14	6600903	2	ADAPTER-HYDR,ST,08MJ-10MB	83	6500039	1	THERMOMETER-2IN DIAL,9IN STEM
15	6601117	1	VALVE-POWER BRAKE,HYD BCOST	84	0144033	2	BUSHING-PIPE,0.75XC.25NPT,PN
16	6601198	1	HOSE-PRESS,PUMP TO PWR BRAKE	85	6600237	1	SWITCH-THERMO
17	0137894	1	ELBOW-PIPE,45,ST,0.50NPT	86	0140798	1	ELBOW-PIPE,45ST,0.75NPT,PN
18	0108686	1	ELBOW-PIPE,90,ST,0.50NPT,PN	87	3180442	1	RESERVOIR ASM-HYDRAULIC OIL
19	0103386	1	PIN-COTTER,0.12X1.25,PN	88	6601822	1	NEEDLE VALVE
20	3180336	1	PIN ASM-STEERING CYLINDER	89	0105405	4	NIPPLE-PIPE,0.25NPTXCL
21	6601699	1	CYLINDER-HYD,3X8,1.00 THD ROD	90	0429687	1	ELBOW-PIPE,0.25NPTX0.50
22	3180499	1	BLDCK-MTG,PWR STEER CYL	91	0119290	1	NIPPLE-PIPE
23	6100154	2	SCREW-SOCK,0.38NCX0.75,CUPNYLK	92	6601770	1	VALVE-PRESS REDUCING
24	3110024	1	JOINT-TIE ROD BALL	93	0105423	2	ELBOW-PIPE,ST,0.25NPT
25	0272336	1	NUT-HEX,SLOT,THICK,0.88NF,PD	94	0105417	1	TEE-PIPE,0.25NPT
26	9421054	1	PIN-COTTER,0.12X2.50,PN	95	0122865	1	COUPLING-PIPE,0.25X0.50NPT
27	6601207	2	HOSE-PRESS,PUMP TO SPEED CONT	96	3180578	1	HOSE ASM-HYD 2SPD,SHORT
28	9411120	3	TEE-HYDR,12MJ-12MJ-12MB	97	3180577	3	HOSE ASM-HYD 2SPD,LONG
29	9403374	4	CAP-HYDRAULIC,37DEG FL,0.75	98	6601842	1	VALVE-2SPEED AXLE ACTUATING
30	6601702	1	HOSE-PRESS,PUMP TO POWER GATE	99	0219189	1	PLUG-PIPE,0.25NPT
31	9410333	1	TEE-HYDR,08MJ-08FPX-08MJ	100	3180581	1	PLATE-MOUNTING,HYD 2 SPD
32	9403372	1	CAP-HYDRAULIC,37DEG FL,0.50	101	3111006	1	BRACKET-SUPT,CYL.2 SPD,HYD
33	6601184	1	COOLER-HYDRAULIC OIL	102	6601446	1	CYLINDER-HYD.
34	6601481	1	HOSE-PRESS,PUMP TO HOPPER VLV	103	3111010	1	CLEVIS ASM-CYL,HYD 2 SPD
35	9403255	1	ADAPTER-HYD,BHD,08MJ-08MJ	104	000401	1	RIVET-ROHD,.5X1.62,DRILLED
36	6601701	1	HOSE-PRIORITY RELIEF TO RESVR	105	6601196	1	HOSE ASM-08X24,08FJX-08FJX
37	6601570	1	PUMP-4 SECT,HYD SYS CCW	106	6601828	1	VALVE-CHECK-PILOT OPERATED
	7420162	AR	KIT-REPAIR,HYD PUMP	107	3180577	1	HOSE ASM-HYD 2 SPEED
38	6600906	4	CLAMP-HOSE	108	0105419	1	CROSS-PIPE,0.25NPT
39	3180565	2	HOSE-SUCTION,MANIF TO PUMP,12L				
40	3180376	1	MANIFOLD ASM-PUMP SUCTION				
41	0189777	1	ELBOW-PIPE,90,2.00NPT,PN				
42	6200379	1	PIPE-SCH40,2.00X22.00,TBE PN				
43	0218220	2	ELBOW-PIPE,45,ST,2.00NPT,PN				
44	6600907	2	ADAPTER-HYDR,ST,32FP-32FPX				
45	6100309	2	ADAPTER-HYDR,ST,32MP-32MP				
46	6309244	AR	HOSE-SUCTION,2.00ID -PER FOOT				
47	6601400	1	HOSE ASM-08X96,08FJX-08MPX				
48	6600989	1	POWER UNIT-INTEGRAL,FRT HOPPER				
49	3190290	1	TUBE ASM-GUIDE,REAR				
50	3140288	1	BUSHING-GATE BAR				
51	3190287	1	ROD ASM-CONTROL				
52	3190281	1	CONNECTOR-CYL,CONTROL END				
53	3190285	1	ARM ASM-PIVOT,FRONT MOUNT				
54	3180544	1	SHAFT-PIVOT,HPR CONT CYL				
55	3190371	1	PIN-PIVOT,HPR CONT CYLINDER				
56	0137204	1	PIN-COTTER,0.21X1.00,PN				
57	3170179	1	BRACKET-HYD PUMP MOUNTING				
58	0190362	2	NIPPLE-PIPE,1.00NPTX6.50,PN				
59	0119100	2	ELBOW-PIPE,90,1.00NPT,PN				
60	6601218	1	HOSE-COOLER TO RESERVOIR				
61	6600363	1	COUPLING-PUSH/PULL				
62	3180574	1	VALVE ASM-ELEC,SPREAD ROLL				
63	3180573	1	PLATE-GATE OP.				
64	6601552	1	VALVE-YUKEN				
65	9410979	1	ELBOW-HYDR,90				
66	9410335	1	TEE-HYDR,12MJ-12FJX-12MJ				
67	6701472	1	CORD GRIP,M,0				
68	3160343	1	HARNESS ASM				
69	9410205	2	ADAPTER-HYDR,ST,12MB-12MJ				
70	3170180	1	SUPPORT-PUMP BRACKET				
71	6600906	4	CLAMP-HOSE,WORM DR 1.8X2.75				

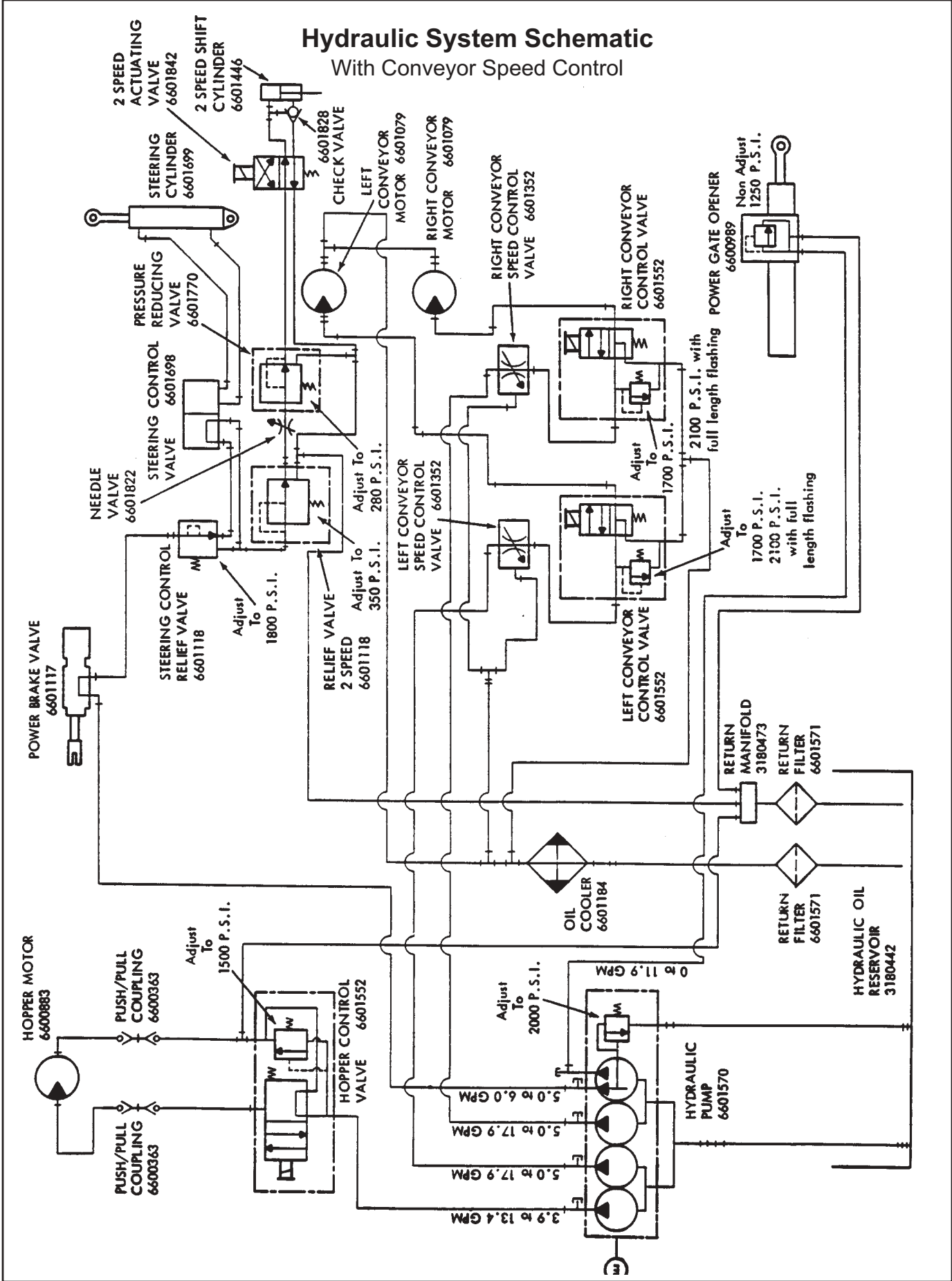
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Hydraulic System Schematic Without Conveyor Speed Control

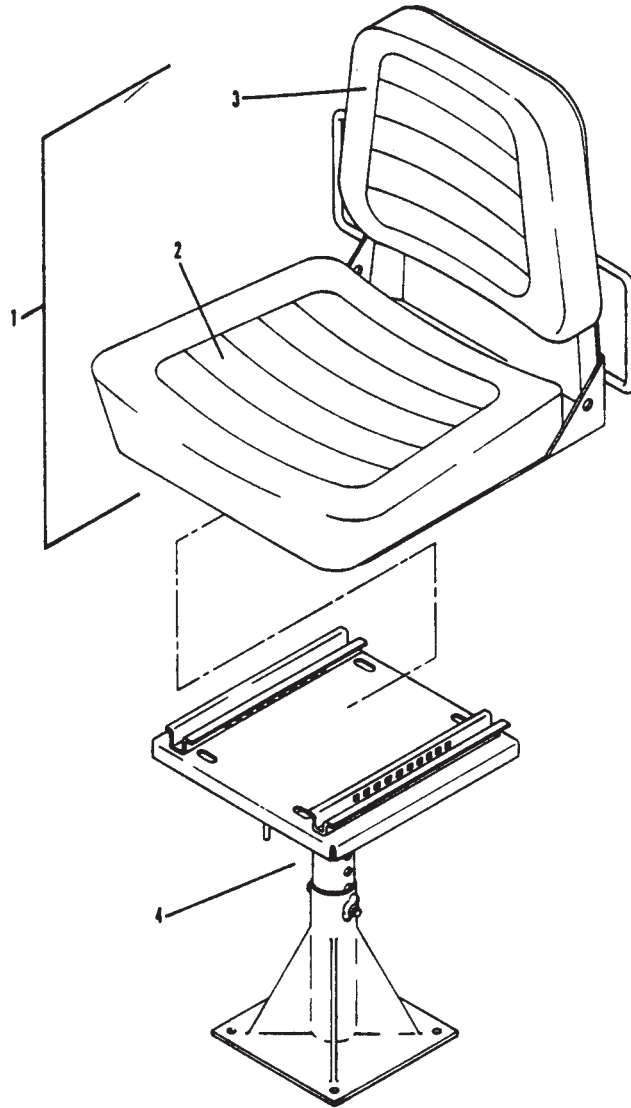


Hydraulic System Schematic

With Conveyor Speed Control



Operator Seat Assembly



REF.	PART NO.	QTY.	DESCRIPTION	REF.	PART NO.	QTY.	DESCRIPTION
1	6001078	1	SEAT-OPERATOR,W/GLIDE BARS (INCLUDES ITEMS 2 AND 3)				
2	7215163	1	SEAT CUSHION,REPLACEMENT				
3	7215162	1	BACK CUSHION,REPLACEMENT				
4	6001079	1	PEDESTAL-SEAT,W/HEIGHT ADJUST				