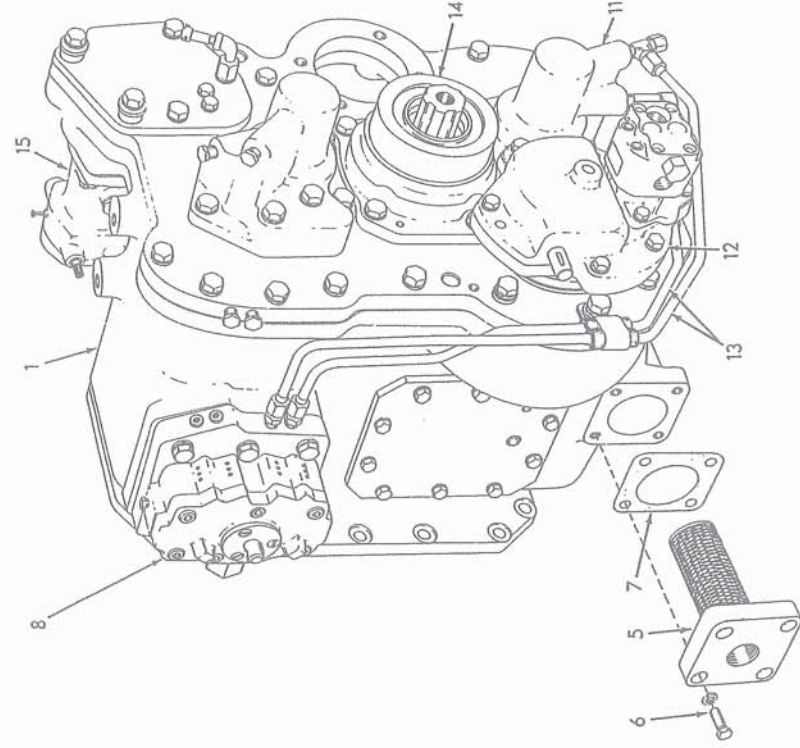
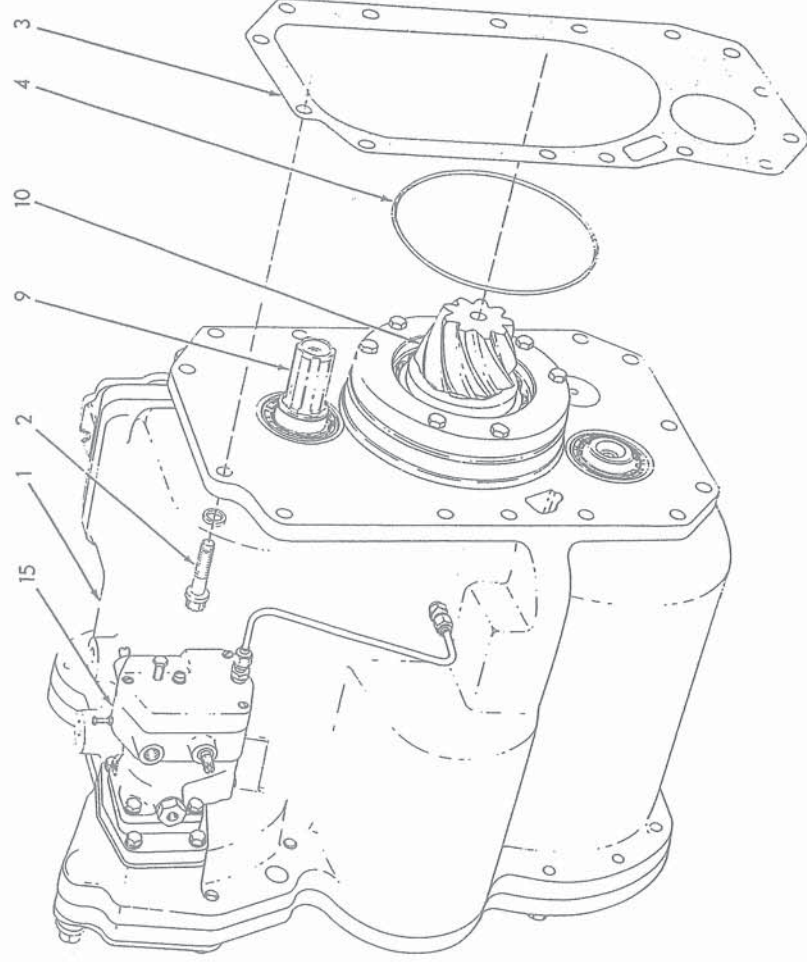




RIGHT FRONT VIEW

T-70917



LEFT REAR VIEW

TRANSMISSION

T-71204

TRANSMISSION

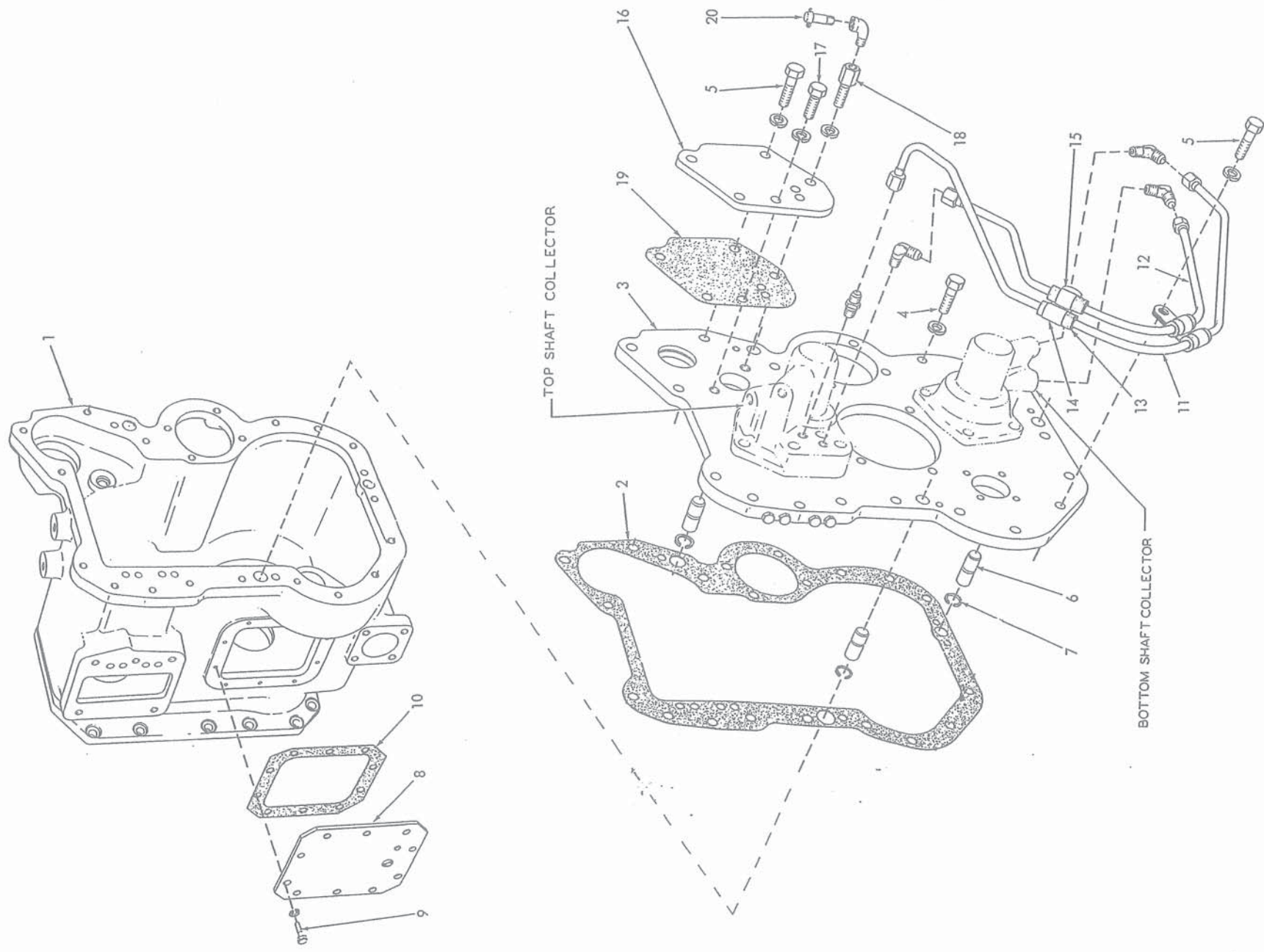
* Loaders prior to serial No. 23003
 ** Loaders serial No. 23003 and up

ITEM PART NO. QTY. * **

DESCRIPTION

NOTE: Each Transmission Assembly listed below includes items
 4 thru 7

1	70624750	1	-	TRANSMISSION ASSEMBLY (Includes GROUND SPEED GOVERNOR and PUSH-START HYDRAULICS)
	70650516	-	1	TRANSMISSION ASSEMBLY (Tractors without GROUND SPEED GOVERNOR or PUSH-START HYDRAULICS)
	70650542	-	1	TRANSMISSION ASSEMBLY (Tractors with special GROUND SPEED GOVERNOR only)
	70650559	-	1	TRANSMISSION ASSEMBLY (Tractors with special PUSH-START HYDRAULICS only)
	70650554	-	1	TRANSMISSION ASSEMBLY (Tractors with both GROUND SPEED GOVERNOR and PUSH-START HYDRAULICS)
2	70095779	15	-	CAPSCREW, Nylok, 1/2"NC x 1-1/2"
	70648847	-	15	SCREW, 12-point, Nylok, 1/2"NC x 1-1/2"
	70904208	15	15	LOCKWASHER, 1/2"
3	70638194	1	1	GASKET, case to steering clutch housing
4	70924166	1	1	O-RING, transmission sealing
5	70624275	1	1	SCREEN, oil
6	70035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	70904208	4	4	LOCKWASHER, 1/2"
7	70624694	1	1	GASKET, oil screen
8	-----	-	-	VALVE, control (See SPEED SHIFT)
9	-----	-	-	See TRANSMISSION TOP SHAFT
10	-----	-	-	See TRANSMISSION PINION SHAFT
11	-----	-	-	See TRANSMISSION BOTTOM SHAFT
12	-----	-	-	See PUSH-START HYDRAULICS
13	-----	-	-	OIL LINES (See TRANSMISSION CASE AND COVERS)
14	-----	-	-	See DRIVE SHAFT
15	-----	-	-	See GROUND SPEED GOVERNOR



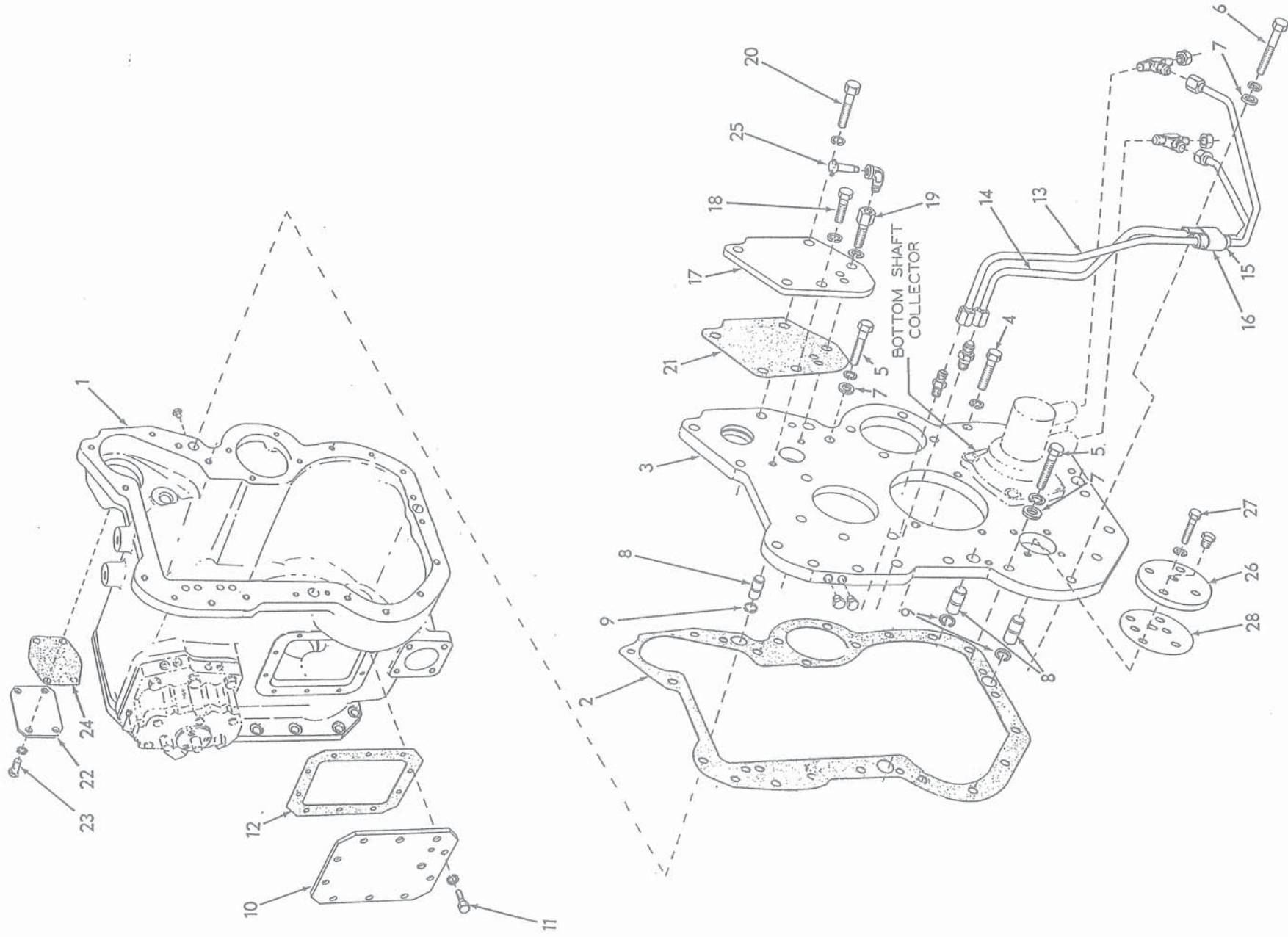
T-70918

TRANSMISSION CASE AND COVERS (First type)

TRANSMISSION CASE AND COVERS

USAGE: Tractors prior to serial No. 23003

ITEM	PART NO.	QTY.	DESCRIPTION
1	70627251	1	CASE, transmission
2	70624813	1	GASKET, front cover
3	70631123	1	COVER, front (If for loaders prior to #22227 also order 099549 SETSCREW and install per Sketch S-3286)
4	70919840	4	PLUG, pipe, hex-hd., 1/4"NPT
4	70035236	11	CAPSCREW, 1/2"NC x 1-3/4"
5	70921556	3	CAPSCREW, 1/2"NC x 2"
14	70904208	14	LOCKWASHER, 1/2"
6	70624695	3	PIN, dowel, front cover
7	70623804	3	RING, snap, pin retaining
8	70641655	1	COVER, side
9	70035439	10	CAPSCREW, 3/8"NC x 1"
10	70904206	10	LOCKWASHER, 3/8"
10	70624693	1	GASKET, side cover
11	70628143	1	TUBE ASSEMBLY, oil jumper, outer (Includes nuts)
	70919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	70919135	1	ELBOW, flare type, 3/8" tube, 1/4"NPT male
12	70628144	1	TUBE ASSEMBLY, oil jumper, inner (Includes nuts)
	70919135	2	ELBOW, flare type, 3/8" tube, 1/4"NPT male
13	70093751	4	BOOT, tube protecting
14	70092007	2	CLIP, tube supporting (large)
15	70603830	2	CLIP, tube supporting (small)
16	70627364	1	PLATE, closure, governor drive
17	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
18	70630756	1	CAPSCREW, 1/2"NF x 1-1/4" (drilled for breather)
	70904208	2	LOCKWASHER, 1/2"
19	70627365	1	GASKET, closure plate
20	70051447	1	BREATHER ASSEMBLY (Serviced only as a unit)
	70907059	1	ELBOW, street, 90°, 1/8"NPT



TRANSMISSION CASE AND COVERS

USAGE: Loaders serial No. 23003 and up

ITEM PART NO. QTY. DESCRIPTION

1	70650450 70919840	1 1	CASE, transmission PLUG, pipe, hex-hd., 1/4"NPT (Not for units with Ground Speed Governor)
2	70633177	1	GASKET, front cover
3	70633169 70919840	1 2	COVER, front PLUG, pipe, hex-hd., 1/4"NPT
4	70035236	10	CAPSCREW, 1/2"NC x 1-3/4" (2 less used on units with PUSH-START HYDRAULICS)
5	70921556	2	CAPSCREW, 1/2"NC x 2"
6	70035712	1	CAPSCREW, 1/2"NC x 2-1/4"
7	70099376 70904208	3 13	WASHER, plain LOCKWASHER, 1/2"
8	70624695	3	PIN, dowel, front cover
9	70623804	3	RING, snap, pin retaining
10	70641655	1	COVER, side
11	70035439 70904206	10 10	CAPSCREW, 3/8"NC x 1" LOCKWASHER, 3/8"
12	70624693	1	GASKET, side cover
13	70633689 70919062 70919483 70919552	1 1 1 1	TUBE ASSEMBLY, oil jumper, outer (Includes nuts) CONNECTOR, flare type, 3/8" tube, 1/4"NPT male TEE, flare type, 3/8" tube, 1/4"NPT male end CAP, flare type, 3/8" tube
14	70633688 70919062 70919483 70919552	1 1 1 1	TUBE ASSEMBLY, oil jumper, inner (Includes nuts) CONNECTOR, flare type, 3/8" tube, 1/4"NPT male TEE, flare type, 3/8" tube, 1/4"NPT male end CAP, flare type, 3/8" tube
15	70093751	2	BOOT, tube protecting
16	70632785	1	CLIP, tube supporting
17	70633834 70627364	1 1	PLATE, closure, governor drive (For units without Ground Speed Governor) PLATE, closure, governor drive (For units with Ground Speed Governor)
18	70070469	1	CAPSCREW, 1/2"NF x 1-1/4"
19	70630756	1	CAPSCREW, 1/2"NF x 1-1/4" (drilled for breather)
20	70921556 70904208	1 3	CAPSCREW, 1/2"NC x 2" LOCKWASHER, 1/2"
21	70627365	1	GASKET, closure plate
22	70633846	1	PLATE, cover, governor mounting hole
23	70054130 70904205	4 4	CAPSCREW, 5/16"NC x 7/8" LOCKWASHER, 5/16"
24	70633847	1	GASKET, governor mounting hole plate

For units without
Ground Speed Governor

(Continued)

TRANSMISSION CASE AND COVERS (Continued)

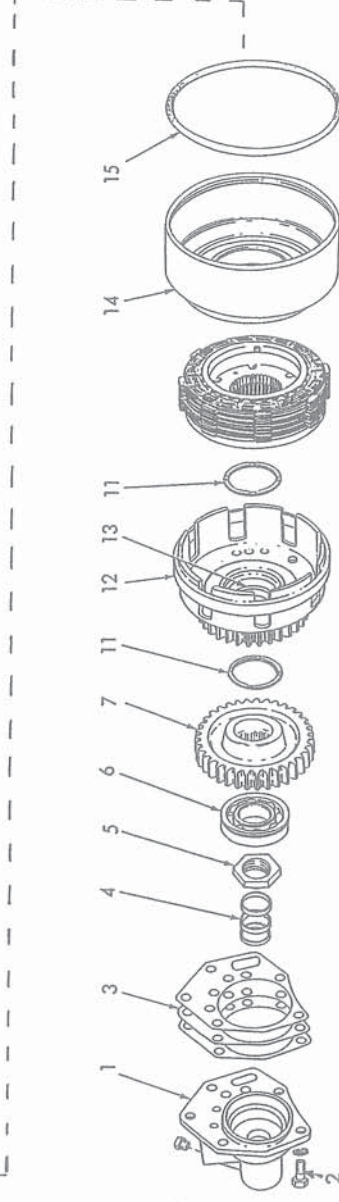
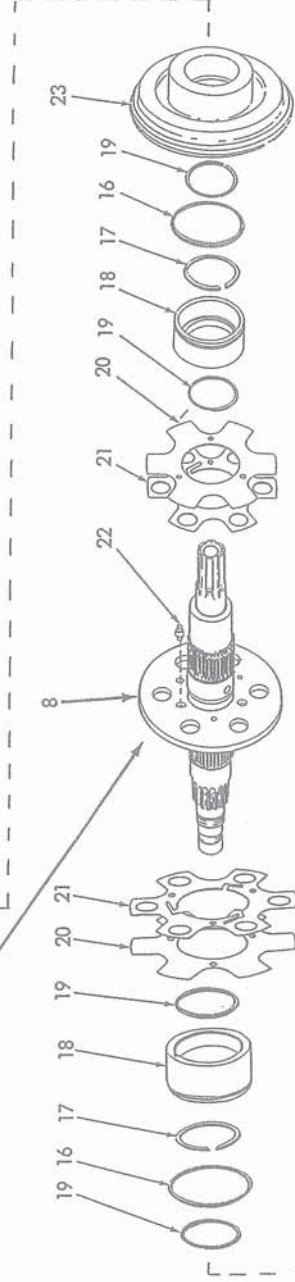
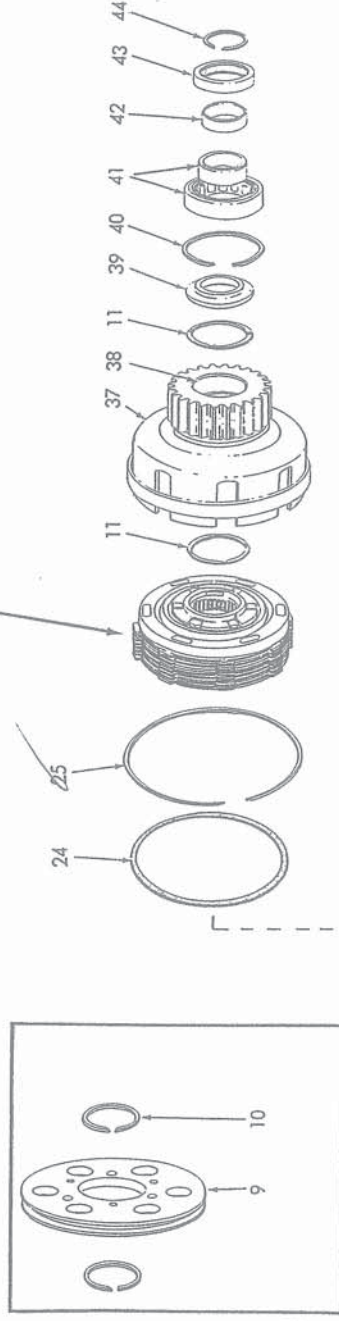
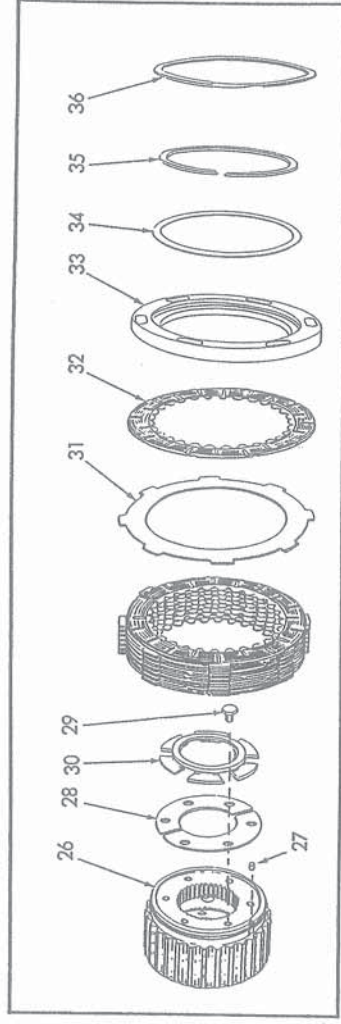
ITEM	PART NO.	QTY.	DESCRIPTION
25	70051447	1	BREATHER ASSEMBLY (Serviced only as a unit)
	70907059	1	ELBOW, street, 90°, 1/8"NPT
26	70645904	1	COVER, high speed reverse shaft (Not used on units equipped with PUSH-START HYDRAULICS)
	70919840	1	PLUG, pipe, hex-hd., 1/4"NPT
27	70036039	4	CAPSCREW, 3/8"NF x 1-3/8"
	70904206	4	LOCKWASHER, 3/8"
26	70627372	2	SHIM, reverse shaft bearing adjustment (.005" thick)
28	70627373	2	SHIM, reverse shaft bearing adjustment (.007" thick)
	70627374	7	SHIM, reverse shaft bearing adjustment (.010" thick)

Use as
required

MEMO

146A

(Added June 1979)



Γ-70923

TRANSMISSION TOP SHAFT

146B

(Added June 1979)

TRANSMISSION TOP SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION
-	70624261	1	CLUTCH AND SHAFT ASSY. (Loaders prior to #25130)(Order Shaft Assy. 70693533 and nut 70661298)
-	70661929	1	CLUTCH AND SHAFT ASSY. (Loaders #21353 and up)(Order Shaft Assy. 70693533)
-	70693533	1	CLUTCH AND SHAFT ASSY. (Service replacement)
1	-----	1	(Includes items 8 thru 40)
	70631122	1	COLLECTOR, oil (Used prior to loader #22227)(Order 1 each Collector 70631122, Washer 70618724, Capscrew 70035892 and rework front cover per Sketch S-3335)
	70632907	1	COLLECTOR, oil (Used on loader #22227 thru #23002)
2	70919840	2	PLUG, pipe, hex-hd., 1/4"NPT
	70614478	4	CAPSCREW, 1/2"NF x 1-3/8"
	70035892	2	CAPSCREW, 1/2"NF x 2-1/2" (One additional used on loaders #22227 thru 23002)
	70904208	6	LOCKWASHER, 1/2"
	70618724	1	WASHER, copper (Used on loaders #22227 thru #23002)
3	70624713	9	SHIM, oil collector (.003" thick. Use as required)
4	70624691	3	SEAL, oil
5	70079234	1	NUT, bearing retaining (crimp Lock)(Loaders prior to #25130)
	70661298	1	NUT, bearing retaining (elastic stop)(Loaders #25130 and up)
6	70090645	1	BEARING, ball, front
7	70624676	1	GEAR, high speed (35 teeth)
8	70624254	4	WASHER, thrust
9	70624256	1	GEAR AND DRUM ASSY., high speed (Includes item 10)
10	70648363	1	BUSHING, high speed gear
11	70624240	1	HOUSING, piston
12	70624238	1	O-RING, top shaft separator plate
13	70624232	4	O-RING, sealing, top shaft
14	70624242	2	O-RING, sealing, accelerating piston
15	70624231	2	RING, snap, piston retaining
16	70624241	2	PISTON, accelerating (Loaders prior to #25130)
	70661502	2	PISTON, accelerating (Loaders #25130 and up)
	70693537	2	PISTON, accelerating (Service replacement)
17	70624234	2	DISC, valve
18	70651641	2	DISC, backing (Original equipment)
	70693538	2	DISC, backing (Used with items 23 and 24)

(Continued)

(Revised June 1979)

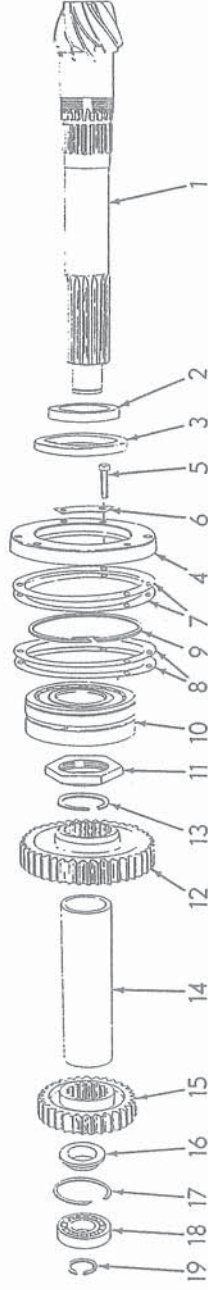
TRANSMISSION TOP SHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	70651647	1	SHAFT ASSY., top (Includes item 20 and 21)(Loaders prior to #25130)(If for Tractors prior to #24502 also order 2 Discs 70651641 and 3 Pins 70651639)
	706661924	1	SHAFT ASSY., top (Includes items 20 and 21)(Loader #25130 and up)
	70693534	1	SHAFT ASSY., top (Includes items 20 and 21) (Service replacement)(Also order 2 piston 70693537, 18 plate 70693536, 2 disc 70693538, 6 spring 70687249, and 6 spring 70687251)
20	70647269	1	PLATE ASSY. (Includes 2 pins)(Used prior to loader #24502)
	70651643	1	PLATE (Loader #24502 and up)
	70693539	1	PLATE (Service replacement)(Also order 2 piston 70693537, 18 plate 70693536, 2 disc 70693538, 6 spring 70687249 and 6 spring 70687251)
21	70624231	2	RING, snap, plate retaining
22	70624237	3	PIN, valve actuating (straight type)(Used prior to loader #24502)
	70651639	3	PIN, valve actuating (step type)(Effective with loader #24502 and up)
23	70687249	6	SPRING, (3/8" O.D.)
24	70687251	6	SPRING, (1/4" O.D.)
25	70624233	1	PISTON, clutch actuating
26	70624236	1	□RING, sealing, actuating piston
27	70624235	1	RING, snap, actuating piston housing
28	70667387	2	HUB ASSY., clutch (Serviced only as a unit)(Original equipment)
	70677710	2	HUB ASSY., clutch (Service only as a unit)
29	70624249	2	PIN, locking, back plate (Used with shaft 70624261 and 70661929)
30	70624252	4	RETAINER, clutch hub
31	70624251	4	BOLT
32	70669153	2	SPACER, clutch hub
33	70624245	16	PLATE, friction (steel)
34	70693536	18	PLATE, friction (bronze)
35	70624246	2	PLATE, back, clutch hub (Used with shaft 70624261 and 70661929)
	70677709	2	PLATE, back, clutch hub (Used with shaft assy., 70693533)
36	70624247	2	RETAINER, locking pin (Used with shaft 70624261 and 70661929)
37	70624248	2	RING, snap, clutch hub (Used with shaft 70624261 and 70661929)
	70927667	2	RING, snap, clutch hub (Used with shaft 70693533)
38	70624250	2	RING, snap, back plate (Used with shaft 70624261 and 70661929)
	70927666	2	RING, snap, back plate (Used with shaft 70693533)
39	70624255	1	GEAR AND DRUM ASSY., low speed (Includes item 40)
40	70648362	1	BUSHING, low speed gear
41	70624446	1	WASHER, thrust, rear bearing

(Continued)

TRANSMISSION TOP SHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
42	70624690	1	RING, snap, bearing retaining
43	70624654	1	BEARING, roller, rear
44	70624748	1	SPACER, rear bearing
45	70624650	1	SEAL, oil
46	70051344	1	RING, snap, top shaft, rear
47	70642894	-	RING KIT (Includes full set for top shaft; items 12, 13, 14 and 26)(Not illustrated)



T-38141

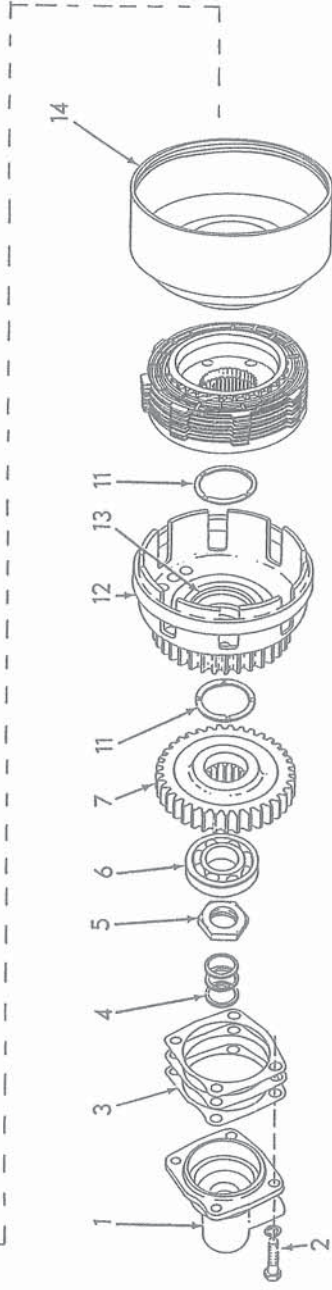
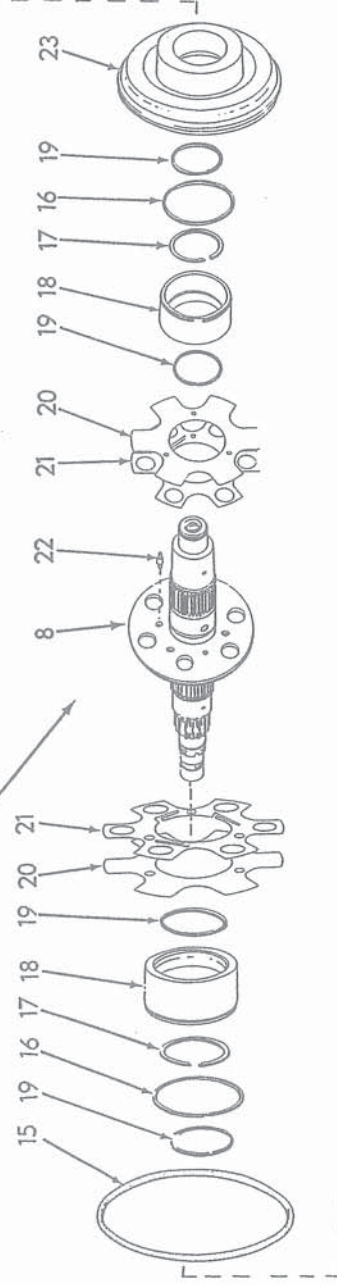
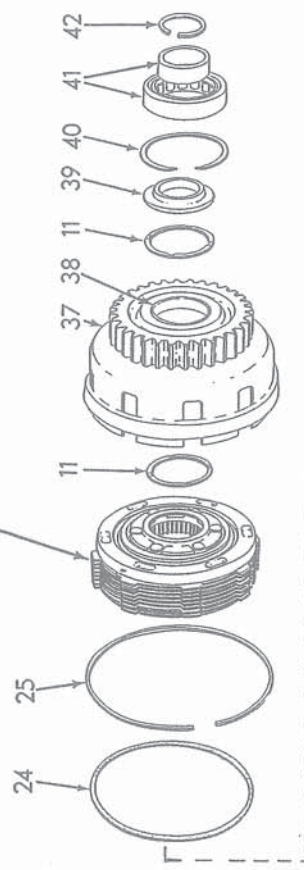
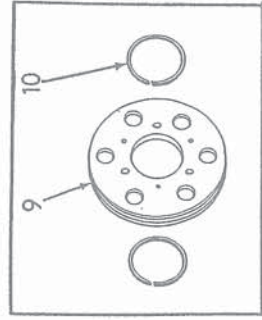
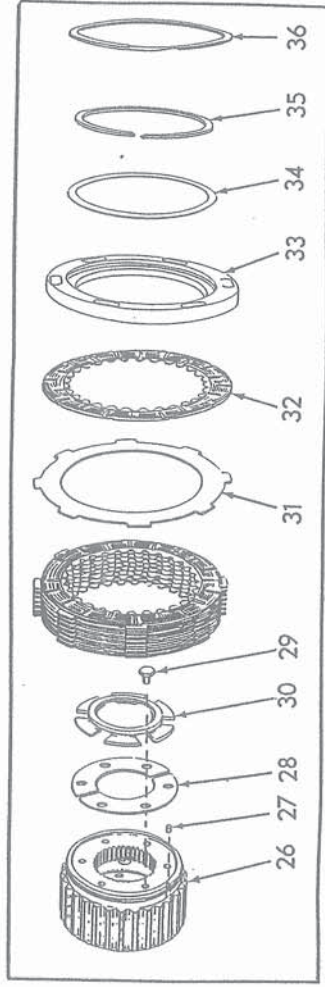
TRANSMISSION PINION SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION
1	70624560	1	PINION, bevel (9 teeth)
2	70624782	1	SPACER, rear bearing
3	70648620	1	SEAL, rear bearing retainer
4	70624774	1	RETAINER, rear bearing
5	70070960	6	CAPSCREW, 3/8"NC x 1-1/2"
6	70628018	3	STRIP, capscrew locking
7	70624775	3	SHIM, bearing retainer (.005" thick. Use as req'd)
	70624776	3	SHIM, bearing retainer (.007" thick. Use as req'd)
	70624777	2	SHIM, pinion adjustment (.005" thick. Use as req'd)
8	70624778	2	SHIM, pinion adjustment (.007" thick. Use as req'd)
	70624779	3	SHIM, pinion adjustment (.010" thick. Use as req'd)
9	70627239	1	RING, snap, rear bearing
10	70624649	1	BEARING, roller, rear
11	70624781	1	NUT, bearing retaining
12	70624675	1	GEAR, low speed (42 teeth)
13	70624783	1	RING, snap, low speed gear
14	70624452	1	SLEEVE, gear spacing
15	70624741	1	GEAR, high speed (31 teeth)
16	70624784	1	WASHER, gear retaining
17	70624690	1	RING, snap, front bearing
18	70624654	1	BEARING, roller, front
19	70051344	1	RING, snap, bevel pinion

TRANSMISSION BOTTOM SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION
-	70624262	1	CLUTCH AND SHAFT ASSY. (Used prior to loader #23003)
-	70633238	1	CLUTCH AND SHAFT ASSY. (Loader #23003 thru #25129)(Order shaft assy., 70693352 and 1 nut 70661298)
-	70661999	1	CLUTCH AND SHAFT ASSY. (Loader #25130 and up)(Order shaft assy., 70693352)
-	70693532	1	CLUTCH AND SHAFT ASSY. (Service replacement) (Includes items 8 thru 40)
1	70624773	1	COLLECTOR, oil
2	70614478	4	CAPSCREW, 1/2"NF x 1-3/8"
	70904208	4	LOCKWASHER, 1/2"
3	70624712	9	SHIM, oil collector (.003" thick. Use as required)
4	70624691	3	SEAL, oil
5	70079234	1	NUT, bearing retaining (crimp lock)(Loaders prior to #25310)
	70661298	1	NUT, bearing retaining (elastic stop)(Loaders #25310 and up)
6	70090645	1	BEARING, ball, front
7	70624677	1	GEAR, high speed reverse (37 teeth)
8	70624254	4	WASHER, thrust
9	70624260	1	GEAR AND DRUM ASSY., high speed reverse (26 teeth. Includes item 10)(Used prior to loader #23003)
	70633237	1	GEAR AND DRUM ASSY., high speed reverse (32 teeth. Includes item 10).(Effective with loader #23003)
10	70648363	1	BUSHING, high speed reverse gear
11	70624240	1	HOUSING, piston
12	70624238	1	O-RING, bottom shaft separator plate
13	70624232	4	O-RING, sealing
14	70624242	2	O-RING, sealing, accelerating piston
15	70624231	2	RING, snap, piston retaining
16	70624241	2	PISTON, accelerating (Loaders prior to #25130)
	70661502	2	PISTON, accelerating (Loader #25130 and up)
	70693537	2	PISTON, accelerating (Used with shaft 70693532)
17	70624234	2	DISC, valve
18	70651641	2	DISC, backing (Used with shaft 70624262, 70633238 and 70661999)
	70693538	2	DISC, backing (Used with shaft 70693532)
19	70651646	1	SHAFT ASSY., bottom (Includes item 20 and 21) (Loaders prior to #25130. If for loaders prior to #24502 also order 2 discs 70651641 and 3 Pins 70651639)
	70661998	1	SHAFT ASSY., bottom (Includes items 20 and 21) (Loader #25310 and up)
	70693535	1	SHAFT ASSY., bottom (Includes items 20 and 21) (Service replacement)

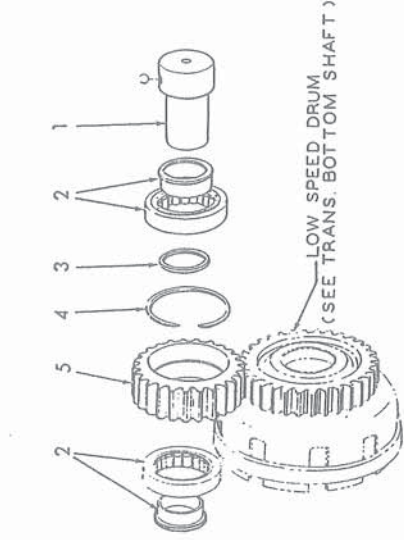
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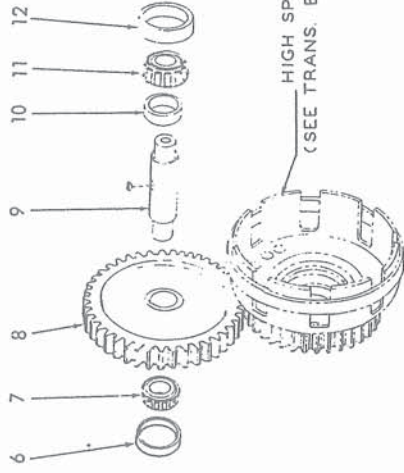
TRANSMISSION BOTTOM SHAFT

TRANSMISSION BOTTOM SHAFT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
20	70651643	1	PLATE (Used with shaft 70624262, 70633238 and 70661999)(Also order 3 pin 70651639 and 2 disc 70651641)
	70693539	1	PLATE (Service replacement)(Use with shaft 70693532)
21	70624231	2	RING, snap, plate retaining
22	70624237	3	PIN, valve actuating (straight type)(Loaders prior to #24507)
	70651639	3	PIN, valve actuating (step type)(Loader #24502 and up)
23	70687249	6	SPRING (3/8" O.D.)
24	70687251	6	SPRING (1/4" O.D.)
25	70624233	1	PISTON, clutch actuating
26	70624236	1	□RING, sealing, actuating piston
27	70624235	1	RING, snap, actuating piston housing
28	70667387	1	HUB ASSY., clutch (Service only as a unit)(Loaders prior to unit #23314)(Used with shaft 70624262, 70633238 and 70661999)
	70677710	1	HUB ASSY., clutch (Service only as a unit)(Service replacement)(Used with shaft 70693532)
29	70624249	2	PIN, locking, back plate (Used with shaft 70624262, 70633238, and 70661999)
30	70624252	4	RETAINER, clutch hub
31	70624251	4	BOLT
32	70624257	2	SPACER, clutch hub
33	70624245	16	PLATE, friction (steel)
34	70693536	18	PLATE, friction (bronze)
35	70677709	2	PLATE, back (Also order 1 hub 70677710, 1 ring 70927666, 1 ring 70927667)
36	70624247	2	RETAINER, locking pin (Used with shaft 70624262, 70633238 and 70661999)
37	70624248	2	RING, snap, clutch hub (Used with shaft 70624262, 70633238 and 70661999)
	70927667	2	RING, snap, clutch hub (Used with shaft 70693532)
38	70624250	2	RING, snap, back plate (Used with shaft 70624262, 70633238 and 70661999)
	70927666	2	RING, snap, back plate (Used with shaft 70693532)
39	70624259	1	GEAR AND DRUM ASSY., low speed reverse (Includes item 40)
40	70648362	1	BUSHING, low speed reverse gear
41	70624446	1	WASHER, thrust, rear bearing
42	70624690	1	RING, snap, bearing retaining
43	70624654	1	BEARING, roller, rear
44	70051344	1	RING, snap, bottom shaft, rear
45	70642894	-	RING KIT (Includes full set for bottom shaft; items 12, 13, 14 and 26)(Not illustrated)



LOW SPEED



HIGH SPEED

T-72861

TRANSMISSION REVERSE SHAFTS

*Low speed
**High speed

ITEM	PART NO.	QTY. * **	DESCRIPTION
1	70624556	1 -	SHAFT
	70905359	1 -	BALL, steel, 5/16" diam.
2	70624656	2 -	BEARING, roller
3	70624803	1 -	SPACER, bearing
4	70624690	1 -	RING, snap, bearing spacing
5	70624743	1 -	GEAR (25 teeth)
6	70228153	- 1	CUP, front bearing
7	70228152	- 1	CONE ASSY., front bearing
8	70624742	- 1	GEAR (40 teeth)/(Used prior to loader #16007)
	70633186	- 1	GEAR (41 teeth)/(Effective with loader #16007)
9	70627278	- 1	SHAFT (Used prior to loader #16007)
	70633218	- 1	SHAFT (Effective with loader #16007. For units with PUSH-START HYDRAULICS only. Standard on Loaders prior to #18380; special equipment thereafter)
	70645905	- 1	SHAFT (Effective with loader #18380. For units without PUSH-START HYDRAULICS)
	70905845	- 1	KEY, #A woodruff, 1/4" x 7/8"
10	70627264	- 1	SPACER (3/8" long)/(Used prior to loader #16007)
	70633217	- 1	SPACER (1/2" long)/(Effective with loader #16007)

(Continued)

TRANSMISSION REVERSE SHAFTS (Continued)

ITEM	PART NO.	QTY. * **	DESCRIPTION
11 {	70228152	- 1	CONE ASSY., rear bearing (Used prior to loader #16007)
	70633705	- 1	CONE ASSY., rear bearing (Effective with loader #16007)
12 {	70228153	- 1	CUP, rear bearing (Used prior to loader #16007)
	70633704	- 1	CUP, rear bearing (Effective with loader #16007)