

TRANSMISSION

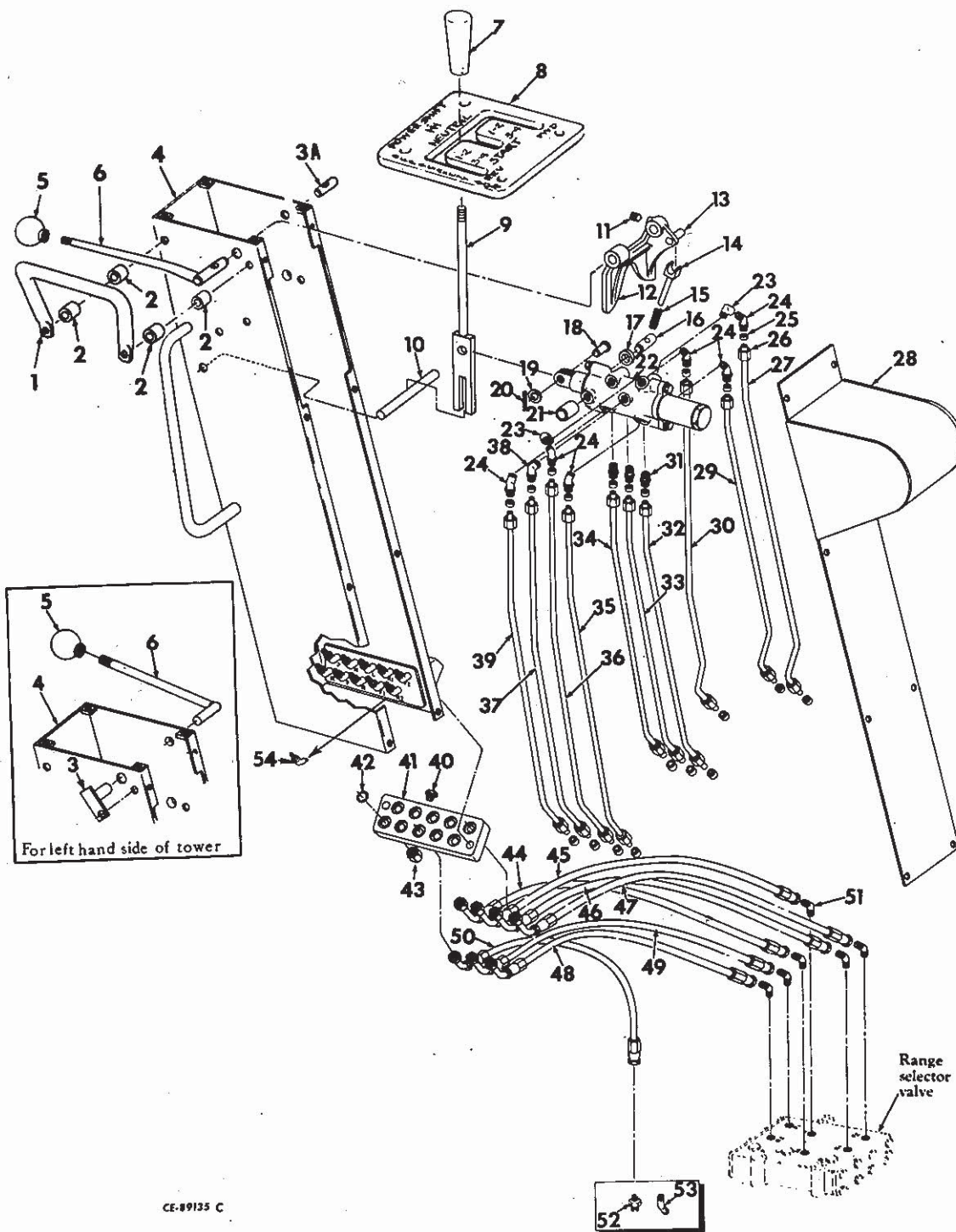
(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS
 TD-15BP 22001 to 23071
 TD-15BPS 22001 to 23071

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED
 TD-15BP 22001 to 23071
 TD-15BPS 22001 to 23071



CE-89135 C

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED		
TD-15BP 22001 to 23071		
TD-15BPS 22001 to 23071		
		TOWER, hydraulic transmission control (Consists of the following parts - except as noted -
1	334 664 R1 179 865	GUARD, pilot control valve lever 7/16 x 1-7/8" hex-hd cap SCREW (for L.H. side of tower) (2)
	446 220	1/2 x 1-1/8" x 14 ga flat WASHER (forward end only) (2)
	103 322	7/16" lock WASHER (2)
	179 869	7/16 x 2-3/4" hex-hd cap SCREW (for R.H. side of tower) (2)
2	17 527 D	SPACER, lever guard (2)
3	700 036 C1	SHAFT, safety lock (for L.H. side of tower)
3A	620 048 C1	SHAFT, safety lock (for R.H. side of tower)
4	700 033 C3	HOUSING w/JUNCTION BLOCK, control tower
	179 859	7/16 x 1-1/8" hex-hd cap SCREW (4)
	103 322	7/16" lock WASHER (4)
5	307 839 R1	KNOB, safety lock lever
6	700 035 C1	LEVER, safety lock
7	347 768 R1	HANDLE, pilot control valve lever
8	617 258 C1 179 837	GATE, gear shifter lever 3/8 x 3/4" flat-hd SCREW (4)
9	700 032 C1	LEVER, pilot control valve
10	617 112 C1 179 837 103 321	PIN, pilot control valve lever pilot 3/8 x 3/4" hex-hd cap SCREW 3/8" lock WASHER
11	617 256 C1	SCREW, safety lock lever set (2)
12	700 034 C1	BRACKET w/PIN, 616 270 C1, safety lock cam
13	616 270 C1	PIN, safety lock cam bracket
14	327 912 R3	GUIDE, safety lock spring
15	331 953 R2	SPRING, safety lock
16	327 910 R2	SHAFT, safety lock pivot
17	617 068 C1	BUSHING, safety lock pivot
18	27 128 H	PIN, rod end
19	52 917 R1	WASHER, pilot control valve lever
20	103 384	PIN, 1/8 x 3/4" cotter
21	617 113 C1	SPACER, pilot control valve (4)
22	700 030 C92	VALVE ASSY, pilot control (for components see list of parts under details of "Pilot Control Valve")
	179 844	3/8 x 1-5/8" hex-hd cap SCREW (4)
	103 321	3/8" lock WASHER (4)
23	9 409 931	ELBOW, 1/8 x 90° street (pilot control valve) (R1 and F1 positions) (2)
24	615 307 C1	ELBOW, pilot control valve (R1, F1, F2, R2, F and R positions) (6)
25	915 500 R1	SLEEVE, tube (20)
26	915 499 R1	NUT, tube (20)
27	617 095 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "R1" position on pilot valve to "R1" position on junction block
28	700 037 C1 179 837 103 321	COVER, control tower housing 3/8 x 3/4" hex-hd cap SCREW (8) 3/8" lock WASHER (8)
29	617 094 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F2" position on pilot valve to "F2" position on junction block
30	616 267 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "R" position on pilot valve to "R" position on junction block

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED		
TD-15BP 22001 to 23071		
TD-15BPS 22001 to 23071		
31	606 885 C1	CONNECTOR, pilot control valve (P,M and L positions) (3)
32	617 096 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "L" position on pilot control valve to "L" position on junction block
33	617 096 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "M" position on pilot control valve to "M" position on junction block
34	617 096 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "P" position on pilot control valve to "P" position on junction block
35	617 098 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 511 R1, "R2" position on pilot control valve to "R2" position on junction block
36	617 106 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F1" position on pilot control valve to "F1" position on junction block
37	617 097 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "N" position on pilot control valve to "N" position on junction block
38	319 615 R1	ELBOW, pilot control valve ("N" position)
39	616 266 C11	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F" position on pilot control valve to "F" position on junction block
40	444 613	PLUG, 1/8" sq-hd pipe (*)
41	703 250 C1 179 841 103 321	MANIFOLD, transmission selector valve (*) 3/8 x 1-1/4" hex-hd cap SCREW (2) 3/8" lock WASHER (2)
42	355 966 R1	"O" RING, 7/16 x 5/8 x 3/32" (*) (10)
43	9 403 370	CAP, 5/16" hex-hd (*) (3)
44	702 432 C2	HOSE w/FITTINGS, "M" position on mani- fold-to-"M" position on transmission range selector valve (*)
45	702 432 C2	HOSE w/FITTINGS, "L" position on manifold- to-"L" position on transmission range selector valve (*)
46	702 432 C2	HOSE w/FITTINGS, "R1" position on mani- fold-to-"R1" position on transmission range selector valve (*)
47	702 432 C2	HOSE w/FITTINGS, "F2" position on mani- fold-to-"F2" position on transmission range selector valve (*)
48	702 432 C2	HOSE w/FITTINGS, "R2" position on mani- fold-to-"R2" position on transmission range selector valve (*)
49	702 432 C2	HOSE w/FITTINGS, "F1" position on mani- fold-to-"F1" position on transmission range selector valve (*)
50	702 434 C2	HOSE w/FITTINGS, "N" position on manifold- to-hi-lo shifter housing on transmission (*)
51	9 402 824	ELBOW, range selector valve (*) (6)
52	9 409 910	ADAPTER, neutral hose (*)
53		NOT USED
	327 273 R91	STRAP, hose (*) (2)
54	615 307 C1	ELBOW, junction block tower (10) TD-15BP 22171 to 23071 TD-15BG 22171 to 23071

(*) - Not Part of Tower Assy.

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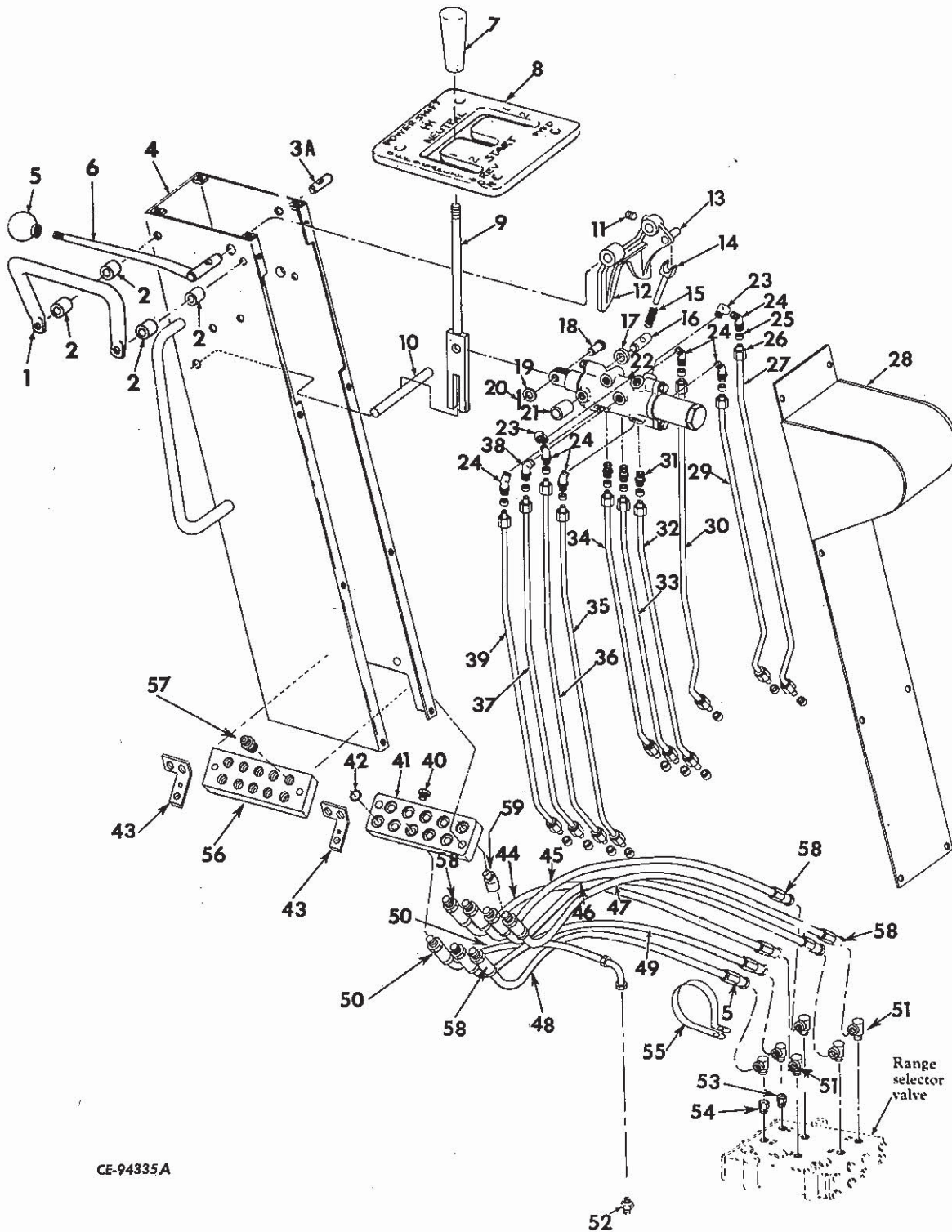
(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS
 TD-15BP 23072 up
 TD-15BPS 23072 up

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS -- CONTINUED
 TD-15BP 23072 up
 TD-15BPS 23072 up



CE-94335A

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED		
TD-15BP 23072 up		
TD-15BPS 23072 up		
		TOWER, hydraulic transmission control (Consists of the following parts - except as noted -
1	334 664 R1 179 882 103 322 179 869	GUARD, pilot control valve lever 1/2 x 1-1/8" x 14 ga flat WASHER (2) 7/16" lock WASHER (2) 7/16 x 2-3/4" hex-hd cap SCREW (2)
2	17 527 D	SPACER, lever guard (2)
3A	620 048 C1	SHAFT, safety lock
4	620 366 C1 179 859 103 322	HOUSING, control tower 7/16 x 1-1/8" hex-hd cap SCREW (2) 7/16" lock WASHER (2)
5	307 839 R1	KNOB, safety lock lever
6	700 035 C1	LEVER, safety lock
7	347 768 R1	HANDLE, pilot control valve lever
8	617 258 C1 179 837	GATE, gear shifter lever 3/8 x 3/4" flat-hd SCREW (4)
9	700 032 C1	LEVER, pilot control valve
10	617 112 C1 179 837 103 321	PIN, pilot control valve lever pilot 3/8 x 3/4" hex-hd cap SCREW 3/8" lock WASHER
11	617 256 C1	SCREW, safety lock lever set (2)
12	700 034 C1	BRACKET w/PIN, 616 270 C1, safety lock cam
13	616 270 C1	PIN, safety lock cam bracket
14	327 912 R3	GUIDE, safety lock spring
15	331 953 R2	SPRING, safety lock
16	327 910 R2	SHAFT, safety lock pivot
17	617 068 C1	BUSHING, safety lock pivot
18	27 128 H	PIN, rod end
19	52 917 R1	WASHER, pilot control valve lever
20	103 384	PIN, 1/8 x 3/4" cotter
21	617 113 C1	SPACER, pilot control valve (4)
22	700 030 C92 179 844 103 321	VALVE ASSY, pilot control (for components see list of parts under details of "Pilot Control Valve") 3/8 x 1-5/8" hex-hd cap SCREW (4) 3/8" lock WASHER (4)
23	9 409 931	ELBOW, 1/8 x 90° street (pilot control valve) (R1 and F1 positions) (2)
24	615 307 C1	ELBOW, pilot control valve (R1, F1, F2, R2, F and R positions) (6)
25	915 500 R1	SLEEVE, tube (20)
26	915 499 R1	NUT, tube (20)
27	620 373 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "R1" position on pilot valve to "R1" position on junction block
28	700 037 C1 179 837 103 321	COVER, control tower housing 3/8 x 3/4" hex-hd cap SCREW (8) 3/8" lock WASHER (8)

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED		
TD-15BP 23072 up		
TD-15BPS 23072 up		
29	620 371 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F2" position on pilot valve to "F2" position on junction block
30	620 385 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "R" position on pilot valve to "R" position on junction block
31	606 885 C1	CONNECTOR, pilot control valve (P, M and L positions) (3)
32	620 375 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "L" position on pilot control valve to "L" position on junction block
33	620 375 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "M" position on pilot control valve to "M" position on junction block
34	620 375 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "P" position on pilot control valve to "P" position on junction block
35	620 379 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "R2" position on pilot control valve to "R2" position on junction block
36	620 381 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F1" position on pilot control valve to "F1" position on junction block
37	620 377 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "N" position on pilot control valve to "N" position on junction block
38	319 615 R1	ELBOW, pilot control valve ("N" position)
39	620 383 C91	TUBE w/two NUTS, 915 499 R1 and two SLEEVES, 915 500 R1, "F" position on pilot control valve to "F" position on junction block
40	444 613	PLUG, 1/8" sq-hd pipe (*) (3)
41	620 369 C1 179 841 103 321	MANIFOLD, transmission selector valve (*) 3/8 x 1-1/4" hex-hd cap SCREW (2) 3/8" lock WASHER (2)
42	355 966 R1	"O" RING, 7/16 x 5/8 x 3/32" (*) (10)
43	620 387 C1	BRACKET, tower manifold (2) 1/4 x 3/4" hex-hd cap SCREW (2) 7/16 x 7/8" hex-hd cap SCREW (2) 1/4" lock WASHER (2) 7/16" lock WASHER (2)
44	625 899 C91	HOSE w/two FITTINGS, 317 767 R91, "M" position on manifold to "M" position on transmission range selector valve (Hose 3/16" ID x 30" long including fittings) (*)
44		HOSE w/o FITTINGS cut length 3/16" ID x 28" long cut from bulk hose 319 705 R1 (*)
45	625 899 C91	HOSE w/two FITTINGS, 317 767 R91, "L" position on manifold to "L" position on transmission range selector valve (Hose 3/16" ID x 30" long including fittings) (*)
45		HOSE w/o FITTINGS, cut length 3/16" ID x 28" long cut from bulk hose 319 705 R1 (*)

(*) - Not Part of Tower Assy

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(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HYDRAULIC TRANSMISSION CONTROLS AND RELATED PARTS - CONTINUED TD-15BP 23072 up TD-15BPS 23072 up		
46	625 899 C91	HOSE w/two FITTINGS, 317 767 R91, "R1" position on manifold to "R1" position on transmission range selector valve (Hose 3/16"ID x 30" long including fittings) (*)
46		HOSE w/o FITTINGS, cut length 3/16"ID x 23 28" long cut from bulk hose 319 705 R1 (*)
47	625 899 C91	HOSE w/two FITTINGS, 317 767 R91, "F2" position on manifold to "F2" position on transmission range selector valve (Hose 3/16"ID x 30" long including fittings) (*)
47		HOSE w/o FITTINGS cut length 3/16"ID x 28" long cut from bulk hose 319 705 R1 (*)
48	625 899 C91	HOSE w/two FITTINGS 317 767 R91, "R2" position on manifold to "R2" position on transmission range selector valve (Hose 3/16"ID x 30" long including fittings) (*)
48		HOSE w/o FITTINGS length 3/16"ID x 28" long cut from bulk hose 319 705 R1 (*)
49	625 899 C91	HOSE w/two FITTINGS 317 767 R91, "F1" position on manifold to "F1" position on transmission range selector valve (Hose 3/16"ID x 30" long including fittings) (*)
49		HOSE w/o FITTINGS cut length 3/8"ID x 28" long cut from bulk hose 319 705 R1 (*)
50	619 687 C1	HOSE w/FITTINGS, "N" position on mani- fold-to-hi-lo shifter housing on trans- mission (*)
51	307 989 R91	ELBOW, range selector valve (*) (6)
52	9 409 910	ADAPTER, neutral hose (*)
53	443 998	ADAPTER, range selector valve (in "F1" port)
54	443 998	ADAPTER, range selector valve (in "R2" port)
55	308 872 R1	CLAMP, hose (regulator valve spacer mounting bolt)
56	620 368 C1	MANIFOLD, tower
57	606 885 C1	CONNECTOR, tower manifold (10)
58	317 767 R91	FITTING, male pipe (used w/HOSE 619 682 C91) (12)
59	9 409 927	ELBOW, 45° 1/8" street pipe (6)
	327 273 R91	STRAP, hose (*) (2)
	319 705 R1	HOSE, 3/16" bulk (x) (*)

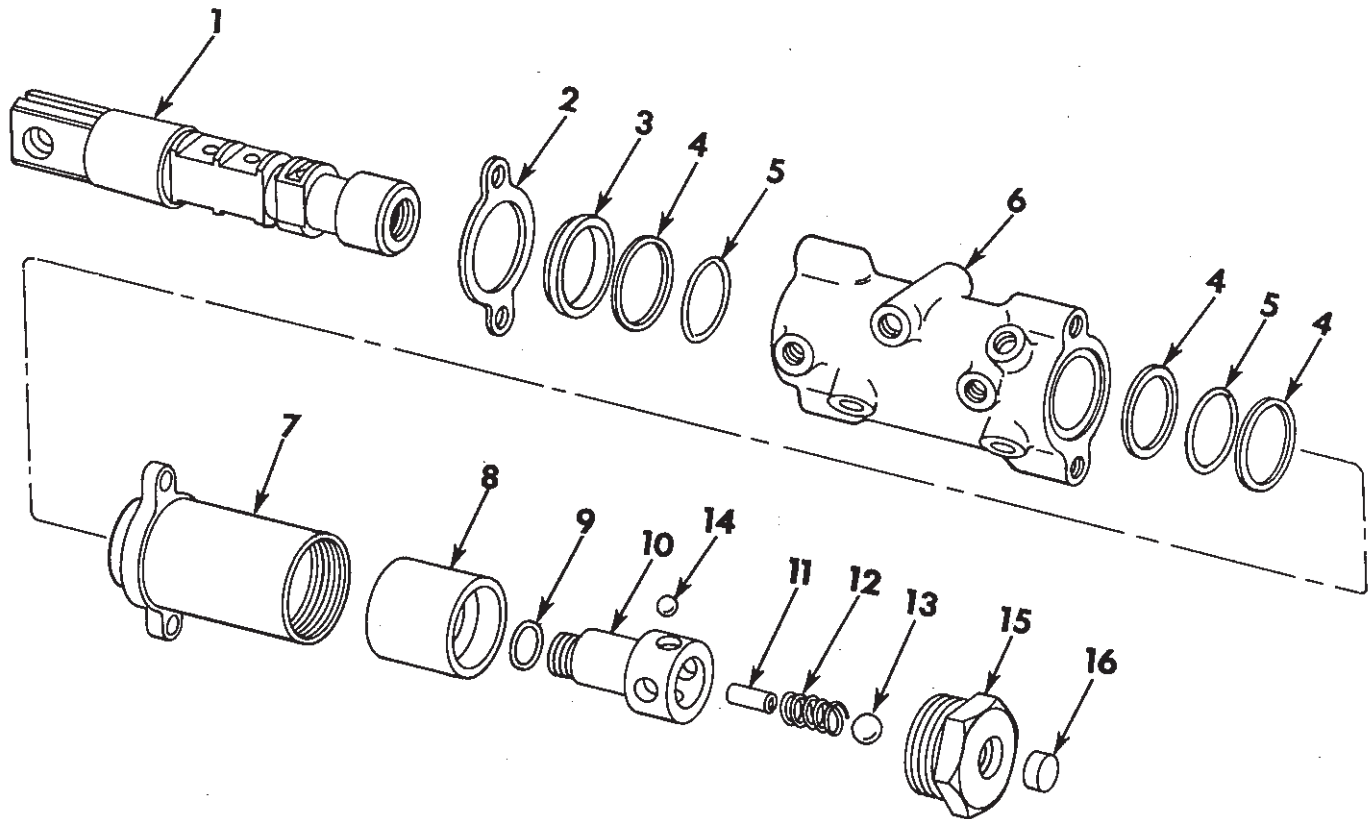
(*) - Not Part of Tower Assy
(x) - Order Cut Length As Required

MEMORANDA

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

PILOT CONTROL VALVE
 TD-15BP 22001 up
 TD-15BPS 22001 up



CE-89097

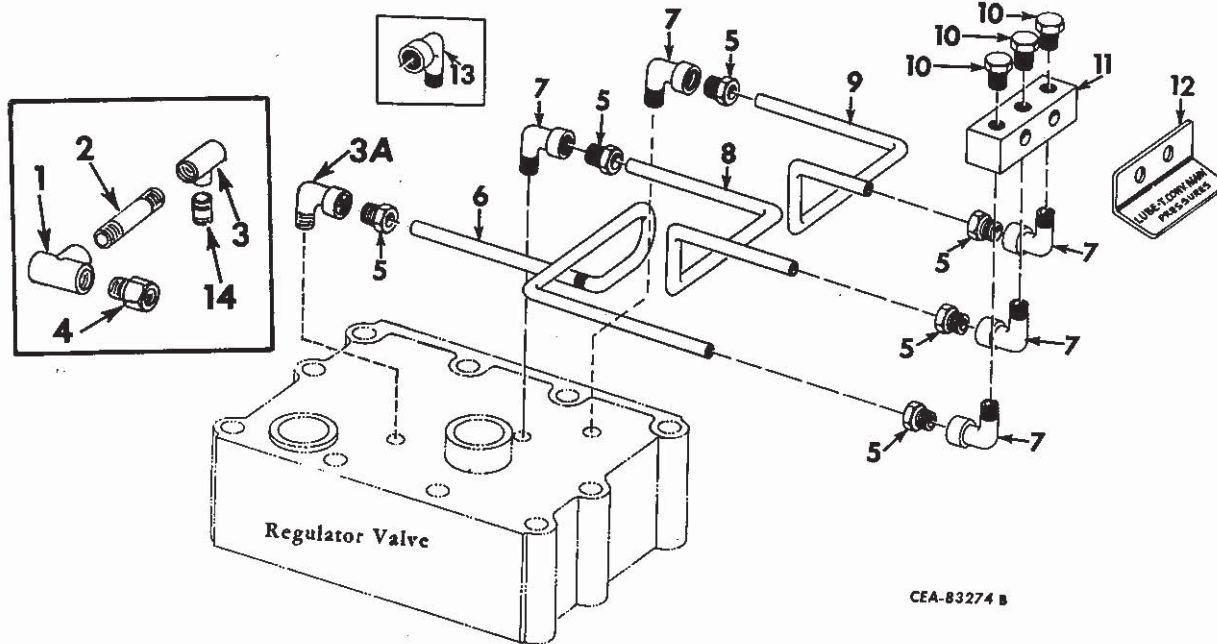
REF. NO.	I. H. PART NUMBER	DESCRIPTION
	700 030 C92	VALVE ASSY, pilot control (Composed of the following parts -
1	617 007 C1	SPOOL, valve
2	617 051 C1 179 814	RETAINER, spool seal 5/16 x 5/8" hex-hd cap SCREW (2)
3	617 020 C1	RING, spool wiper
4	617 522 C1	RING, back-up (3)
5	356 005 R1	"O" RING, 1-1/8 x 1-3/8 x 1/8" (2)
6		BODY, valve (not furnished separately)
7	617 046 C1 616 268 C1	HOUSING, detent BOLT (optional with SCREW, 939 323 R1) (2)
	929 323 R1	SCREW (5/16 x 7/8" 12 pt.) (optional with 616 268 C1) (2)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
8	617 018 C1	SLEEVE, detent
9	369 384 R1	"O" RING, .414 x .558 x .072"
10	617 016 C1	EXTENSION, valve spool
11	17 145 R1	PIN, indexing ball stop
12	624 355 C1	SPRING, indexing
13	16 014 R1	BALL, indexing
14	16 011 R1	BALL, poppet (4)
15	616 269 C11	CAP w/PLUG, 376 429 R1, housing
16	376 429 R1	PLUG, cap

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TEST CONNECTIONS



CEA-83274 B

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	9 409 935	TEE, regulator outlet TD-15BP 6001 to 25487 TD-15BPS 9371 to 25487
2	192 043	NIPPLE, regulator outlet elbow to tee TD-15BP 6001 to 25487 TD-15BPS 9371 to 25487
3	9 409 939	TEE, regulator outlet TD-15BP 20145 to 20415 TD-15BPS 20145 to 20415
3	9 409 935	TEE, regulator outlet TD-15BP 20416 to 25079 TD-15BPS 20416 to 25079
3A	9 409 923	ELBOW, 20 psi regulator outlet TD-15BP 25080 to 25487 TD-15BPS 25080 to 25487
3A	319 615 R1	ELBOW, 20 psi regulator outlet TD-15BP 25488 up TD-15BPS 25488 up
4	29 901 D	CONNECTOR, tee to 20 PSI test tube TD-15BP 6001 to 20415 TD-15BPS 9371 to 20415
4	606 885 C1	CONNECTOR, tee to 20 PSI test tube TD-15BP 20416 to 25487 TD-15BPS 20416 to 25487
5	29 898 D	NUT, test connection tube (6) TD-15BP 6001 to 20415 (6) TD-15BPS 9371 to 20415
5	915 499 R1	NUT, test connection tube (6) TD-15BP 20416 up (6) TD-15BPS 20416 up
	915 500 R1	SLEEVE, test connection tube nut (6)
6	345 513 R1	TUBE, 20 PSI test connection TD-15BP 6001 to 20415 TD-15BPS 9371 to 20415

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HYDRAULIC TEST CONNECTIONS - CONTINUED

REF. NO.	I. H. PART NUMBER	DESCRIPTION
6	611 146 C11	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 20 PSI test connection TD-15BP 20416 to 25167 TD-15BPS 20416 to 25167
6	624 215 C91	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 20 PSI test connection TD-15BP 25168 to 25487 TD-15BPS 25168 to 25487
6	624 998 C91	TUBE, w/two NUT 915 499 R1 and two SLEEVE, 915 500 R1, 20 psi test connections TD-15BP 25488 up TD-15BPS 25488 up
7	30 402 D	ELBOW, test connection tube (4) TD-15BP 6001 to 20415 (4) TD-15BPS 9371 to 20415
7	319 615 R1	ELBOW, test connection tube (5) TD-15BP 20416 up (5) TD-15BPS 20416 up
8	345 514 R1	TUBE, 80 PSI test connection TD-15BP 6001 to 20415 TD-15BPS 9371 to 20415
8	611 147 C11	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 80 PSI test connection TD-15BP 20416 to 25167 TD-15BPS 20416 to 25167
8	624 217 C91	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 80 PSI test connection TD-15BP 25168 up TD-15BPS 25168 up
9	345 515 R1	TUBE, 200 PSI test connection TD-15BP 6001 to 20415 TD-15BPS 9371 to 20415

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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HYDRAULIC TEST CONNECTIONS - CONTINUED

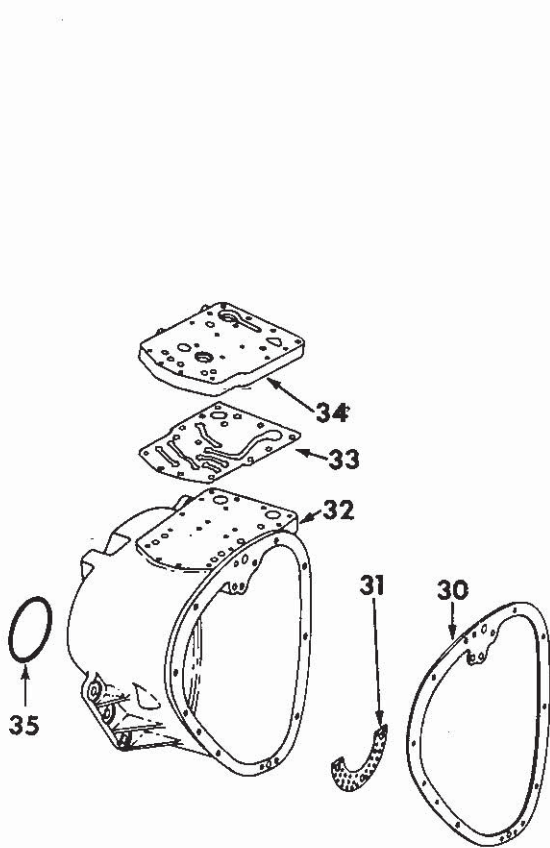
9	611 148 C11	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 200 PSI test connection TD-15BP 20416 to 25167 TD-15BPS 20416 to 25167
9	624 219 C91	TUBE w/two NUT, 915 499 R1 and two SLEEVE, 915 500 R1, 200 PSI test connection TD-15BP 25168 up TD-15BPS 25168 up
10	444 614	PLUG, 1/8" hex-hd pipe (brs) (3)
11	334 445 R1 179 820 103 320	BLOCK, test connection header 5/16 x 1-1/4" hex-hd cap SCREW (2) 5/16" lock WASHER (2)
12		PLATE, hydraulic pressure check (Not Furnished Separately)
13	444 163	ELBOW, regulator outlet TD-15BP 6001 to 20144 TD-15BPS 9371 to 20144
14	443 976	NIPPLE, regulator outlet to regulator outlet tee TD-15BP 20416 to 25487 TD-15BPS 20416 to 25487
	628 021 C91	PACKAGE, pivot brake lub field improve- ment TD-15BP 6001 to 25487 TD-15BPS 9371 to 25487 (Composed of - 1 ADAPTER 102 729 R1 2 ELBOW 610 473 C2 1 ELBOW 144 129 1 ELBOW 656 531 C92 1 ELBOW 606 845 C1 1 ELBOW 319 615 R1 1 NIPPLE 219 658 1 TUBE 624 996 C91 1 TUBE 624 998 C91)

MEMORANDA

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER



IPA-66667E

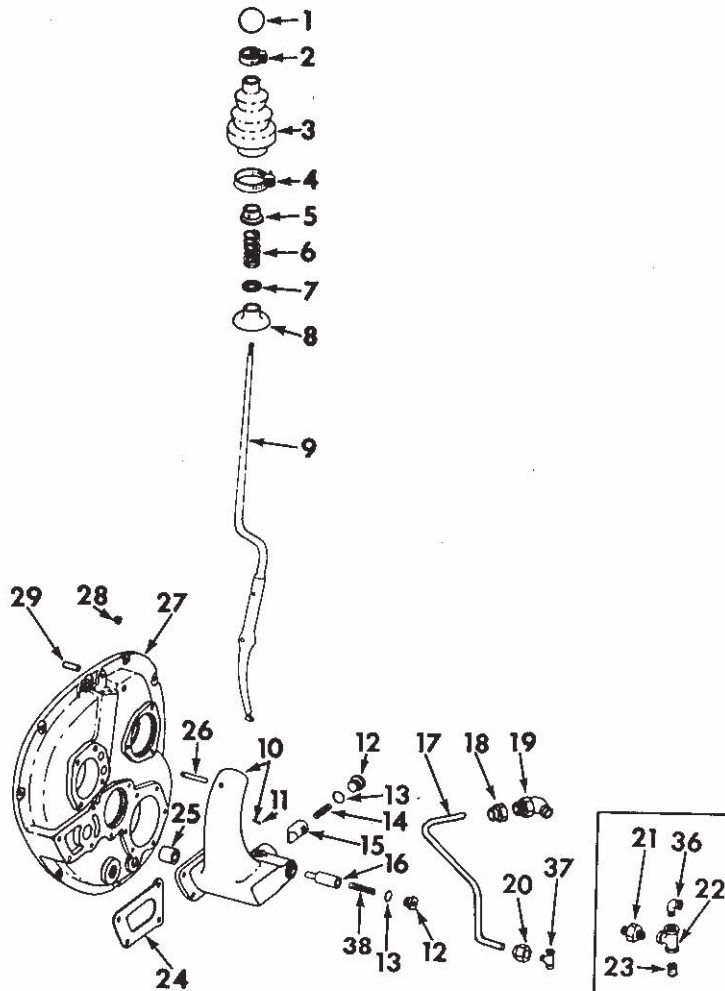
REF. NO.	I. H. PART NUMBER	DESCRIPTION
331 957 R91		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (not for sideboom crawler tractors) (Order PACKAGE, 703 262 C91)
		TD-15BP 6001 to 20231
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)
609 959 C91		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (not for sideboom crawler tractors) (Order PACKAGE, 703 262 C91)
		TD-15BP 20232 to 20522
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER -- CONTINUED



REF. NO.	I. H. PART NUMBER	DESCRIPTION
331 958 R91		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (for sideboom crawler tractors) (Order PACKAGE, 703 263 C91)
		TD-15BPS 9371 to 20231
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)
609 960 C91		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (for sideboom crawler tractors) (Order PACKAGE, 703 263 C91)
		TD-15BPS 20232 to 20522
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER - CONTINUED		
331 957 R93		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (not for sideboom crawler tractors) (order PACKAGE, 703 262 C91) TD-15BP 20523 to 21158
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)
331 958 R93		TRANSMISSION ASSY (Consists of all parts listed under "Transmission" except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (for sideboom crawler tractors) (order PACKAGE, 703 263 C91) TD-15BPS 20523 to 21158
20 833 R1		BOLT, 3/4 x 1-3/4" (will work for 3/4" NUT and STUD, 57 382 D) (6)
331 957 R94		TRANS ASSY (consists of all parts listed under transmission except gear selector lever and related parts and "Hydraulic Test Connections") (Not for sideboom crawler tractors) (will work for TRANSMISSION ASSY, 331 957 R91, 331 957 R93 and 609 959 C91) (order PACKAGE, 703 262 C91) TD-15BP 21159 to 22000
20 833 R1		BOLT, 3/4 x 1-3/4" (6)
331 958 R94		TRANS ASSY (consists of all parts listed under transmission except gear selector lever and related parts and "Hydraulic Test Connections") (for sideboom crawler tractors) (will work for TRANSMISSION ASSY, 331 958 R91, 331 958 R93 and 609 960 C91) (order PACKAGE, 703 263 C91) TD-15BPS 21159 to 22000
20 833 R1		BOLT, 3/4 x 1-3/4" (6)
703 258 C92		TRANSMISSION ASSY (consists of all parts listed under TRANSMISSION except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (For Sideboom Crawler Tractors) TD-15BPS 22001 to 25167 (Order the following parts - 1 CONNECTOR 9 402 714 1 CONNECTOR 9 402 713 1 CONNECTOR 875 239 C1 1 HOSE 619 826 C91 1 NIPPLE 190 752 1 RING 297 459 R1 1 TEE 186 553 1 TRANSMISSION 703 258 C93)
703 258 C94		TRANSMISSION ASSY (consists of all parts listed under TRANSMISSION except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (For sideboom crawler tractors) TD-15BPS 25168 up
703 257 C92		TRANSMISSION ASSY (consists of all parts listed under TRANSMISSION except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (Not for Sideboom Crawler Tractors) TD-15BP 22001 to 25167 (Order the following parts - 1 CONNECTOR 9 402 714 1 CONNECTOR 9 402 713 1 CONNECTOR 875 239 C1 1 HOSE 619 826 C91 1 NIPPLE 190 752 1 RING 297 459 R1 1 TEE 186 553 1 TRANSMISSION 703 257 C93)
703 257 C94		TRANSMISSION ASSY (consists of all parts listed under TRANSMISSION except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") (Not for sideboom crawler tractors) TD-15BP 25168 to 25259

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER - CONTINUED		
703 257 C95		TRANSMISSION ASSY (consists of all parts listed under TRANSMISSION except "Gear Selector Lever and Related Parts" and "Hydraulic Test Connections") TD-15BP 25260 up
1	264 055 R2	BALL, shifter lever
2	252 977 R91	CLAMP, shifter lever boot upper
3	325 029 R1	BOOT, high low shifter lever
4	274 088 R91	CLAMP, shifter lever boot lower
5	252 852 R1	STOP, swivel cap spring
	104 075	RIVET, 3/16" x 1-1/2"
6	252 844 R1	SPRING, swivel cap
7	256 141 R1	WASHER, swivel cap spring
8	325 028 R1	CAP, shifter swivel
9	325 084 R2	LEVER, high low shifter
10	325 083 R11	HOUSING w/PIN, 141 152, high low shifter
	179 860	7/16 x 1-1/4" hex-hd cap SCREW (2)
	186 292	7/16 x 4-1/4" hex-hd cap SCREW (2)
	103 322	7/16" lock WASHER (2)
11	141 152	PIN, 3/16 x 9/16" dowel
12	18 524 R1	PLUG, 1-1/4" sq-soc (2)
13	142 756	GASKET, 1-1/4" annular (2)
14	269 908 R1	SPRING, poppet
15	325 026 R2	POPPET, high low shifter
16	325 027 R1	LOCK, poppet
17	607 828 C11	TUBE w/two NUT, 265 205 R1 and two SLEEVE, 265 204 R1, shifter lock (together with ELBOW, 606 889 C1 will work for TUBE, 325 087 R1)
18	37 165 D	NUT (3/8" OD tube) (used with TUBE, 325 087 R1)
18	265 205 R1	NUT, tube (used with TUBE, 607 828 C11)
	265 204 R1	SLEEVE, tube nut
19	37 323 D	ELBOW (3/8" OD tube) (used with TUBE, 325 087 R1)
19	606 845 C1	ELBOW, shifter lock tube (used with TUBE, 607 828 C11) TD-15BP 20001 to 20522 TD-15BPS 20001 to 20522
19	606 889 C1	ELBOW, shifter lock tube (used with TUBE, 607 828 C11) TD-15BP 20523 up TD-15BPS 20523 up
20	37 165 D	NUT (3/8" OD tube) (used with TUBE, 325 087 R1)
20	265 205 R1	NUT, tube (used with TUBE, 607 828 C11)
	265 204 R1	SLEEVE, tube nut
21	38 026 DM	CONNECTOR (3/8" OD tube) (used with TUBE, 325 087 R1 and TEE, 144 083)
21	606 819 C1	CONNECTOR, shifter lock tube (used with TUBE, 607 828 C11 and TEE, 144 083)
22	144 083	TEE, 1/4 x 1/4 x 1/4" reducing pipe (cd or zn-pltd) TD-15BP 6299 to 20522 TD-15BPS 9371 to 20522
23	334 762 R1	NIPPLE, 1/4" (used with TEE, 144 083)
24	325 022 R1	GASKET, high low shifter housing
25	298 401 R1	BUSHING, high low shifter shaft (2)
26	306 025 R2	SHAFT, shifter lever
27	331 778 R11	COVER ASSEMBLY, transmission (Composed of - 1 BUSHING 298 401 R1 § 1 COVER 2 DOWEL 125 860 2 PLUG 444 873 1 PLUG 270 835 R1) 7/16" NUT (12) PLUG, 3/4" countersunk pipe 7/16 x 1-5/8" hex-hd cap SCREW (10) 7/16" lock WASHER (12)
271 500		
270 835 R1		
179 863		
103 322		

§ - Not Furnished Separately.

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER - CONTINUED		
28	444 873	PLUG, 1/2" hex-soc-hd pipe (cd or zn-pltd) (4)
29	125 860	DOWEL, 3/4 x 1-1/2" (2)
30	325 021 R2	GASKET, transmission cover
31	325 080 R1	SCREEN, transmission case oil return TD-15BG 7260 to (#) TD-15BGA 7260 to (#) TD-15BGF 21281 to (#) TD-15BGS 21676 to (#) BOLT, 3/8 x 3/4" (3) 3/8" lock WASHER (3) 13/32 x 13/16" x 16 ga WASHER (3)
	15 210 D	
	103 321	
	103 341	
32	334 848 R21	CASE w/BUSHING, 298 401 R1, four PLUG, 444 873, two PLUG, 9 409 949 and SCREEN, 325 080 R1, transmission TD-15BP 25168 up TD-15BPS 25168 up
	444 873	PLUG, 1/2" hex-soc-hd pipe (cd or zn-pltd) (4)
	9 409 949	PLUG, 3/4" NPT (2)
32	334 848 R11	CASE, transmission TD-15BP 6001 to 25167 TD-15BPS 9371 to 25167 (Order the following parts - 1 CONNECTOR 9 402 714 1 CONNECTOR 9 402 713 1 CONNECTOR 875 239 C1 1 HOSE 619 826 C91 1 NIPPLE 190 752 1 RING 297 459 R1 1 TEE 186 553 1 CASE 334 848 R21)
33	325 041 R1	GASKET, hydraulic valve spacer TD-15BP 6001 to 22000 TD-15BPS 9371 to 22000
33	616 302 C1	GASKET, hydraulic valve spacer TD-15BP 22001 up TD-15BPS 22001 up
34	325 030 R1	SPACER, hydraulic valve TD-15BP 6001 to 22000 TD-15BPS 9371 to 22000
34	616 301 C1	SPACER, hydraulic valve TD-15BP 22001 up TD-15BPS 22001 up
	617 028 C1	BOLT, spacer (8)
	103 320	5/16" lock WASHER (8)
35	654 748 C1	"O" RING, transmission case lower (7-3/4 x 8-1/4 x 1/4") (*)
36	120-499	ELBOW, 1/4" x 90° (used with TEE, 144 083) TD-15BP 20119 to 20522 TD-15BPS 20119 to 20522
37	263 804 R1	TEE, decelerator cylinder hose TD-15BP 20523 up TD-15BPS 20523 up
38	302 426 R1	SPRING, poppet lock VALVE ASSY, main regulator (for components see list of parts under details of "Main Regulator Valve") 3/8 x 4-1/4" hex-hd cap SCREW (11) 3/8" lock WASHER (11) VALVE ASSY, range selector (for components see list of parts under details of "Range Selector Valve") TD-15BP 6001 to 22000 TD-15BPS 9371 to 22000 5/16 x 4" hex-hd cap SCREW (8) 5/16" lock WASHER (8) VALVE ASSY, range selector (for components see list of parts under details of "Range Selector Valve") TD-15BP 22001 up TD-15BPS 22001 up 3/8 x 2-1/2" hex-hd cap SCREW (3) 3/8" lock WASHER (3)
	433 114	
	103 321	
	186 272	
	103 320	
	179 849	
	103 321	

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND COVER - CONTINUED		
278	026 R1	WIRE, bulk locking (14 ga) (customer must specify length required)
611	262 C91	PACKAGE, transmission field improvement (%) TD-15BP 20523 to 21158 (Consists of - 1 HOUSING 609 513 C1 1 PACK 625 800 C92 1 PACK 625 802 C92 1 RING 610 411 C1 1 SEAL 619 586 C91 1 WASHER 611 253 C1 1 WASHER 611 254 C1 1 YOKE 609 514 C21)
611	263 C91	PACKAGE, transmission field improvement (%) TD-15BPS 9371 to 21158 (Consists of - 1 HOUSING 609 513 C1 1 PACK 625 801 C92 1 PACK 625 803 C92 1 RING 610 411 C1 1 SEAL 619 586 C91 1 WASHER 611 253 C1 1 WASHER 611 254 C1 1 YOKE 609 514 C21)
703	262 C92	PACKAGE, transmission field improvement (for service on orders for TRANSMISSION, 331 957 R94) TD-15BP 6001 to 22000 (Consists of - 1 ADAPTER, neutral hose 9 409 910 1 CONNECTOR, pump inlet tee 9 402 713 1 CONNECTOR, pump inlet tee 9 402 714 1 CONNECTOR, regulator drain 875 239 C1 6 ELBOW, range selector valve 9 402 824 1 GROMMET, starting safety switch harness 617 259 R1 1 HARNESS, starting safety switch 338 057 R92 1 HOSE, regulator drain to torque converter pump 619 826 C91 1 MANIFOLD w/ HOSES, selector valve (for components see list of parts under details of "Hydraulic Transmission Controls and Related Parts" TD-15BP 22001 up; TD-15BPS 22001 up) 1 PLUG, decelerator drain tube inlet (in torque converter housing) 444 613 1 RING, connector sealing 297 594 R1 10 RING, selector valve manifold sealing 355 966 R1 1 SWITCH, starting 700 395 C91 1 TEE, pump inlet reducer 186 553 1 TOWER ASSY, hydraulic control (for components see list of parts under details of "Hydraulic Transmission Controls and Related Parts" TD-15BP 22001 up; TD-15BPS 22001 up)
(*) - Not Part Of Transmission Assembly.		
(%) - Package No Longer Available - Service Parts will be Furnished as Ordered.		
(#) Serial Number Not Available		

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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HIGH-LOW SHIFTER LEVER, TRANSMISSION CASE AND
COVER - CONTINUED

703 262 C92 PACKAGE, transmission field improvement
(for service on orders for TRANSMISSION,
331 957 R94) - Continued

TD-15BP 6001 to 22000

(Consists of - Continued

- 1 TRANSMISSION ASSY
(for components see
list of parts under
details of "High-Low
Shifter Lever, Trans-
mission Case and
Cover") 703 257 C93
- 2 3/8 x 1-1/4 hex-hd
cap SCREW 179 841
- 2 3/8" lock
WASHER 103 321)

703 263 C92 PACKAGE, transmission field improvement
(for service on orders for TRANSMISSION,
331 958 R94)

TD-15BPS 9371 to 22000

(Consists of -

- 1 ADAPTER, neutral
hose 9 409 910
- 1 CONNECTOR, pump
inlet tee 9 402 713
- 1 CONNECTOR, pump
inlet tee 9 402 714
- 1 CONNECTOR, regu-
lator drain 875 239 C1
- 6 ELBOW, range
selector valve 9 402 824
- 1 GROMMET, start-
ing safety switch
harness 617 259 R1
- 1 HARNESS, start-
ing safety switch 338 057 R92
- 1 HOSE, regulator
drain to torque
converter pump 619 826 C91
- 1 MANIFOLD w/
HOSES selector
valve (for compo-
nents see list of
parts under details
of "Hydraulic Trans-
mission Controls and
Related Parts"
TD-15BP 22001 up;
TD-15BPS 22001 up)
- 1 PLUG, decelerator
drain tube inlet (in
torque converter
housing) 444 613
- 10 RING, selector valve
manifold sealing 355 966 R1
- 1 RING, connector
sealing 297 594 R1
- 1 TEE, pump inlet
reducer 186 553
- 1 SWITCH, starting 700 395 C91
- 1 TOWER ASSY, hyd-
raulic control (for
components see list
of parts under details
of "Hydraulic Trans-
mission Controls and
Related Parts" TD-15BP
up; TD-15BPS up)
- 1 TRANSMISSION ASSY
(for components see
list of parts under
details of "High-Low
Shifter Lever, Trans-
mission Case and
Cover") 703 258 C94
- 2 3/8 x 1-1/4" hex-hd
cap SCREW 179 841
- 2 3/8" lock
WASHER 103 321)

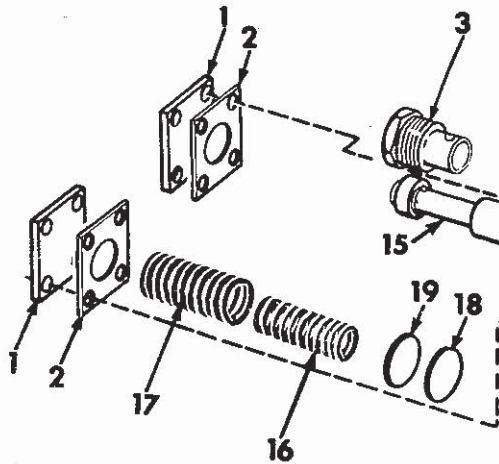
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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

MAIN REGULATOR VALVE

(Rockford)

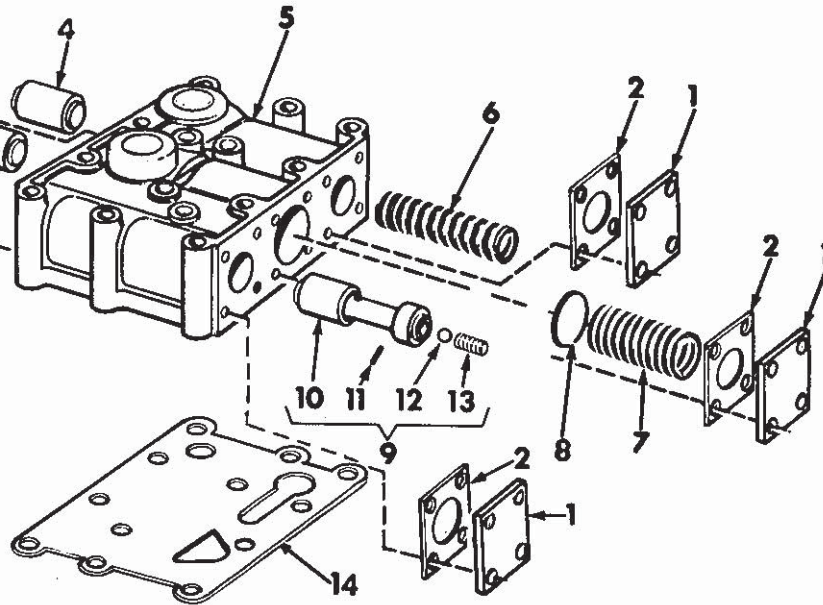


TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

MAIN REGULATOR VALVE - CONTINUED

(Rockford)



WPA-66252 H

REF. NO.	I.H. PART NUMBER	DESCRIPTION
	610 702 C91	VALVE ASSY, main regulator (includes refs 1 to 19 and PLUG, 444 613) (less ref 14) (will work for VALVE, 321 976 R92)
	186 288	3/8 x 4-1/2" hex-hd cap SCREW (10)
	103 321	3/8" lock WASHER (11)
	187 491	3/8 x 5-1/2" hex-hd cap SCREW
	279 987 R1	SPACER, hose clamp
1	321 991 R1	COVER, valve (5)
		5/16 x 3/4" hex-hd cap SCREW
		w/lock WASHER (20)
2	321 992 R1	GASKET, valve cover (5)
3	343 556 R1	PLUG
4	321 994 R1	VALVE, lubricating pressure regulator
5		BODY, main regulator valve (order 610 702 C91)
6	336 103 R1	SPRING, lubricating valve
7	610 703 C1	SPRING, by-pass valve
8	321 997 R1	WASHER
9	338 651 R94	VALVE ASSEMBLY, main spool

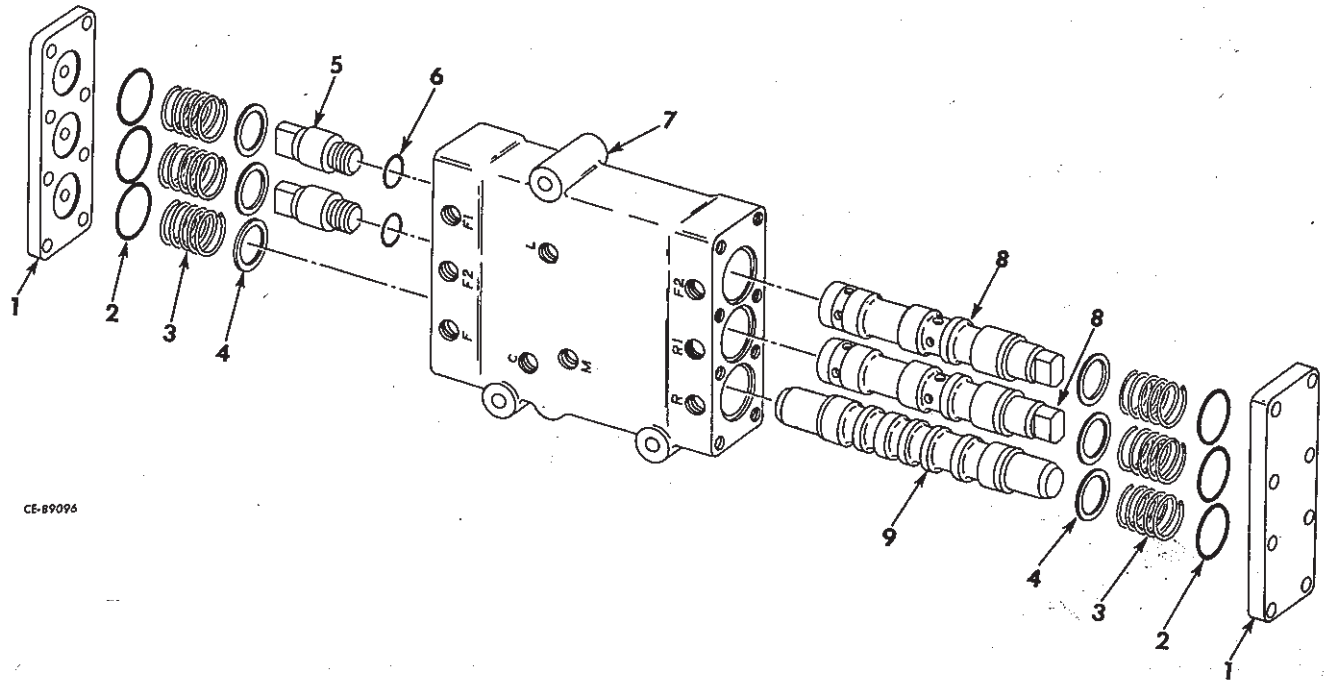
REF. NO.	I.H. PART NUMBER	DESCRIPTION
10		VALVE, main spool (Not Furnished Separately)
11	20 139 R1	PIN, main spool valve
12	346 509 R1	BALL, main spool valve
13	347 243 R1	SPRING, main spool valve
14	325 040 R2	GASKET, main valve body (Not furnished as part of main regulator valve)
15	321 998 R1	VALVE, by-pass
16	324 299 R1	SPRING, main pressure regulator (inner)
17	606 512 C1	SPRING, main regulator
18	606 506 C1	WASHER, spring (X)
19	321 997 R1	WASHER, spring (X)
	444 613	PLUG, 1/8" (NPT) sq-hd pipe (3)

(X)- As Required.

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

RANGE SELECTOR VALVE
 TD-15BP 22001 up
 TD-15BPS 22001 up



CE-89096

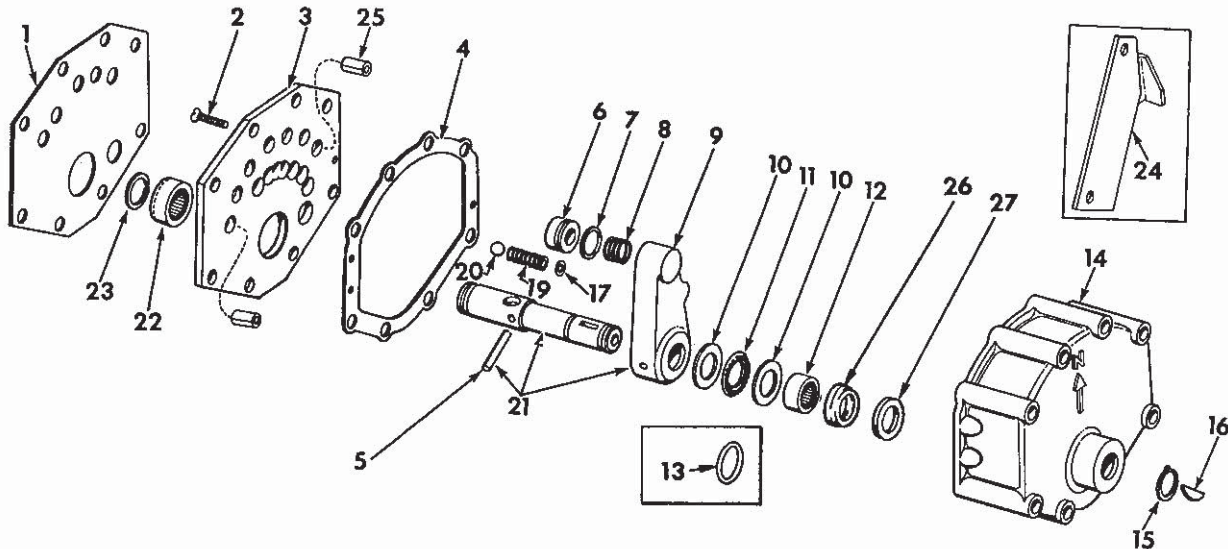
REF. NO.	I. H. PART NUMBER	DESCRIPTION
	700 021 C91	VALVE ASSY, range selector
	379 181 R1	"O" RING, 5/8 x 3/4 x 1/16" (valve mounting) (5)
	574 069 R1	"O" RING, 3/4 x 7/8 x 1/16" (valve mounting)
	444 652	PLUG, 1/8" NPT sq-soc-pipe (in F, C and R ports in valve top) (3)
1	617 242 C1	COVER, body end (2)
	179 817	5/16 x 7/8" hex-hd cap SCREW (16)
	103 320	5/16" lock WASHER (16)
2	370 943 R1	"O" RING, 1-1/8 x 1-1/4 x 1/16" (6)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
3	617 240 C1	SPRING, spool centering (6)
4	617 241 C1	SPAW, spring (6)
5	617 239 C1	PLUG, spool (2)
6	369 751 R1	"O" RING, .351 x .495 x .072" (2)
7		BODY, valve (not furnished separately)
8		SPOOL, forward and reverse (2) (not furnished separately)
9		SPOOL (not furnished separately)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

RANGE SELECTOR VALVE
(Rockford)
TD-15BP 6001 to 22000
TD-15BPS 9371 to 22000



CE-90442

REF. NO.	I. H. PART NUMBER	DESCRIPTION
1	324 021 R1	GASKET, valve plate
2		SCREW, 1/4 x 3/4" fl-hd
3	603 745 C91	PLATE w/BEARING, 10 026 R1 and two PIN, 20 348 R1 selector valve
4	324 019 R1	GASKET, range selector valve
5		PIN (Not Furnished Separately)
6	324 009 R1	WIPER, range selector valve
7	347 641 R1	"O" RING, wiper (3/4 x 7/8 x 1/16")
8	324 010 R1	SPRING, valve wiper
9		VALVE (Not Furnished Separately)
10	324 004 R2	WASHER, thrust (2)
11	324 105 R91	BEARING, thrust needle
12	276 578 R91	BEARING
13		"O" RING, shaft (order SEAL, 615 851 C1 and WASHER, 615 850 C1)
14	324 003 R1	COVER, range selector valve
15	516 010 R1	RING, snap (2)
16	124 549	KEY (Woodruff No. 9)
17	324 013 R1	RETAINER, spring
19	324 012 R1	SPRING, detent
20	13 722 D	BALL, 7/32" dia detent spring
21	324 006 R92	SHAFT, range selector valve

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

RANGE SELECTOR VALVE - CONTINUED
(Rockford)
TD-15BP 6001 to 22000
TD-15BPS 9371 to 22000

REF. NO.	I. H. PART NUMBER	DESCRIPTION
22	10 026 R	BEARING, plate needle
23	324 022 R1	RING, piston hook type
24	331 950 R11	INDICATOR, range selector (used only on tractors equipped with range selector valve COVER, 324 003 R1, without "N" marking)
25	20 348 R1	PIN, 1/2 x 1-3/4" selector valve plate roll (2)
26	615 851 C1	SEAL, shaft
27	615 850 C1	WASHER, seal back up
	603 744 C91	VALVE ASSEMBLY, range selector
		(Composed of -
	1	BALL 13 722 D
	1	BEARING 276 578 R91
	1	BEARING 324 105 R91
	1	COVER 324 003 R1
	1	GASKET 324 019 R1
	1	GASKET 324 021 R1
	1	KEY 124 549
	1	"O" RING 347 641 R1
	1	PLATE 603 745 C91
	1	RETAINER 324 013 R1
	1	RING 516 010 R1
	1	RING 324 022 R1
	1	SEAL 615 851 C1
	1	SHAFT 324 006 R92
	1	SPRING 324 010 R1
	1	SPRING 324 012 R1
	1	WIPER 324 009 R1
	2	WASHER 324 004 R2
	1	WASHER 615 850 C1)

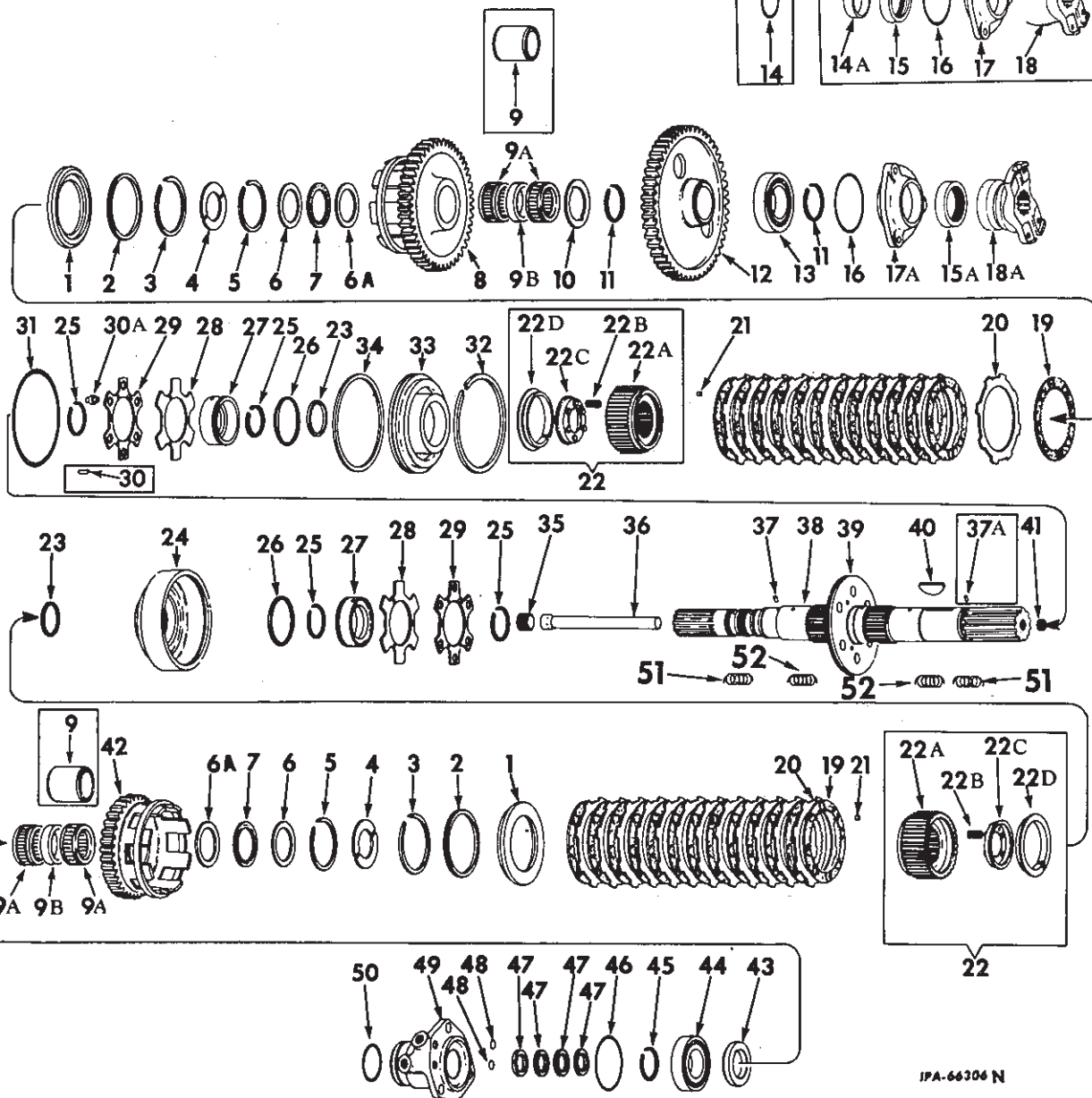
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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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FORWARD CLUTCH PACK AND RELATED PARTS
(Rockford)



- | | | |
|---|------------|---|
| 1 | 324 242 R1 | PLATE, clutch backing (2) |
| 1 | 627 365 C1 | PLATE, clutch backing (part of HUB ASSY, 627 363 C91) |
| 2 | 324 245 R1 | RING, snap (internal) (2) |
| 2 | 627 366 C1 | RING, snap (external) (part of HUB ASSY, 627 363 C91) |
| 3 | 333 857 R2 | RING, snap (external) (2) |
| 3 | 627 367 C1 | RING, snap (internal) (part of HUB ASSY, 627 363 C91) |

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

- | | | |
|----|------------|---|
| 4 | 324 231 R1 | RETAINER, clutch hub (4) |
| 5 | 324 232 R1 | RING, snap (internal) (2) |
| 6 | 584 269 R1 | SPACER, washer (one used with PACK ASSY, 321 970 R91, 610 550 C91 and 610 095 C91) (Two used with PACK ASSY, 610 756 C92, 610 758 C92, 625 802 C92 and 625 800 C92) |
| 6A | 610 769 C1 | WASHER, (Two used with PACK ASSY, 610 756 C91, 610 758 C92 and 625 800 C92 625 802 C92) |

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS -- CONTINUED (Rockford)		
7	584 268 R91	BEARING, thrust washer (A-300582) (2)
8	324 215 R92	GEAR w/BUSHING, 610 007 C1 second speed drive TD-15BP 6001 to 21158 TD-15BPS 9371 to 21158
8	610 767 C92	GEAR, clutch TD-15BP 21159 up TD-15BPS 21159 up
9	610 007 C1	BUSHING, gear (2) TD-15BP 6001 to 21158 (2) TD-15BPS 9371 to 21158
9A	610 772 C91	BEARING, roller (4) TD-15BP 21159 up (4) TD-15BPS 21159 up
9B	610 770 C1	SPACER, bearing (2) TD-15BP 21159 up (2) TD-15BPS 21159 up
10	325 012 R1	WASHER, second gear thrust
11	358 236 R1	RING, forward clutch shaft front bearing snap (2)
12	325 013 R1	GEAR, reverse drive
13	ST 278	BEARING, forward clutch shaft front
14	290 987 R1	"O" RING, rotor (1-3/4 x 2 x 1/8") (used with SEAL and ROTOR, 321 972 R92)
14A	610 026 C1	SLEEVE, oil seal wear (used with OIL SEAL, 610 023 C91) TD-15BP 6001 to 20522 TD-15BPS 9371 to 20522
15	619 584 C91	OIL SEAL, clutch shaft (together with HOUSING, 609 515 C1, RING, 306 359 R1 and SLEEVE, 610 026 C1 will work for SEAL and ROTOR, 321 972 R92) TD-15BP 6001 to 20522 TD-15BPS 9371 to 20522
15A	619 586 C91	OIL SEAL, clutch shaft TD-15BP 20523 up TD-15BPS 20523 up
16	610 411 C1	"O" RING, forward clutch shaft housing (3-1/2 x 3-3/4 x 1/8")
17	609 515 C1	HOUSING, oil seal (together with RING, 306 359 R1, OIL SEAL, 619 584 C91 and SLEEVE, 610 026 C1 will work for HOUSING, 325 015 R2) TD-15BP 6001 to 20522 TD-15BPS 9371 to 20522
	179 860	7/16 x 1-1/4" hex-hd cap SCREW (3)
	103 322	7/16" lock WASHER (3)
17A	609 513 C1	HOUSING, oil seal TD-15BP 20523 up TD-15BPS 20523 up
	610 081 C1	SCREW, 7/16 x 1-1/8" hex-hd cap (3)
	103 322	7/16" lock WASHER (3)
18	325 061 R3	YOKE, transmission drive (*) TD-15BP 6001 to 20522 TD-16BPS 9371 to 20522
18A	609 514 C21	YOKE, transmission drive (*) TD-15BP 20523 up TD-15BPS 20523 up
19	702 959 C1	PLATE, internal splines (26) (26 PLATE, 702 959 C1, will work for PLATE, 324 240 R1) (See NOTE)
19	324 240 R1	PLATE, internal splined (26) (order 26 PLATE, 702 959 C1) (See NOTE)
20	324 241 R1	PLATE, external splined (24)
21	324 244 R1	PIN, dowel (2)

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(Rev. No. 1 10-71)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS -- CONTINUED (Rockford)		
22	346 646 R91	HUB, clutch (order HUB ASSY, 627 363 C91) (2)
22	627 364 C1	HUB, clutch (part of HUB ASSY 627 363 C91)
22A		HUB (Not furnished separately)
22B		SPRING, piston return (Not furnished separately)
22C		RETAINER, spring (Not furnished separately)
22D		RETAINER, plate (Not furnished separately)
23	627 969 C1	"O" RING (piston hook type) (4)
24	324 228 R2	HOUSING, clutch piston TD-15BP 6001 to 25729 TD-15BPS 9371 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
24	627 669 C1	HOUSING, clutch piston TD-15BP 25730 up TD-15BPS 25730 up
25	324 222 R1	RING, snap (external) (4)
26	324 223 R1	"O" RING (piston hook type) (2)
27	324 221 R1	PISTON, accelerating (Order two PISTON, 610 481 C1) (2) TD-15BP 6001 to 20231 (2) TD-15BPS 9371 to 20231
27	610 481 C1	PISTON, accelerating (2) TD-15BP 20232 to 25259 (2) TD-15BPS 20232 to 25259
27	627 093 C1	PISTON (2) TD-15BP 25260 to 25729 (2) TD-15BPS 25260 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
27	627 667 C1	PISTON, accelerating (2) TD-15BP 25730 up (2) TD-15BPS 25730 up
28	324 220 R1	VALVE, disc (used with PACK ASSY, 321 970 R91, 327 434 R91, 610 094 C91, and 610 095 C91) (2)
28	610 751 C1	VALVE, disc (used with PACK ASSY, 610 550 C91, 610 552 C91, 610 756 C92, 610 758 C92 and 625 800 R2 and 625 802 C92)
29	324 219 R1	DISC, reinforcing (used with PACK ASSY, 321 970 R91 and 327 434 R91) (2)
29	610 760 C1	DISC, reinforcing (used with PACK ASSY, 610 756 C91 and PACK ASSY, 610 758 C91) (2)
29	625 205 C1	DISC, reinforcing (used with PACK ASSY, 625 800 C91 and PACK ASSY, 625 802 C91) (2)
30	324 218 R1	PIN, dowel (used with PACK ASSY, 321 970 R91 and 327 434 R91) (3)
30A	610 755 C1	PIN, guide (3) TD-15BP 6001 to 25729 (3) TD-15BPS 9371 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)

NOTE: Do Not Intermix Clutch Plate
702 959 C1 with displaced
324 240 R1 Clutch Plates in any
one Clutch Pack Assembly.
* - Not Part of Transmission Assembly.

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
30A	627 666 C1	PIN, guide (3) TD-15BP 25730 up (3) TD-15BPS 25730 up
31	324 227 R1	"O" RING (separator plate)
32	347 297 R1	RING, snap (internal)
33	324 225 R2	PISTON, clutch TD-15BP 6001 to 25729 TD-15BPS 9371 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
33	627 668 C1	PISTON, clutch TD-15BP 25730 up TD-15BPS 25730 up
34	324 226 R1	"O" RING (lathe cut)
35	347 554 R1	PLUG, 3/4" pipe
36		TUBE (Not furnished separately)
37	324 238 R1	PIN, dowel
37A	324 238 R1	PIN, dowel (used with SEAL and ROTOR, 321 972 R92)
38	324 217 R91	SHAFT ASSY, clutch TD-15BP 6001 to 20231 TD-15BPS 9371 to 20231 (Order the following parts - 1 CAP SCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 2 DISC 610 760 C1 3 PIN 610 755 C1 2 PISTON 610 481 C1 1 RING 610 411 C1 1 RING 324 226 R1 1 RING 324 227 R1 1 SEAL 619 586 C91 1 SHAFT 610 477 C91 2 VALVE 610 751 C1 1 YOKE 609 514 C21)
38	610 750 C91	SHAFT ASSY, clutch TD-15BP 20232 to 20522 TD-15BPS 20232 to 20522 (Order the following parts - 3 CAP SCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 2 DISC 610 760 C1 3 PIN 610 755 C1 2 PISTON 610 481 C1 1 RING 610 411 C1 1 RING 324 226 R1 1 RING 324 227 R1 1 SEAL 619 586 C91 1 SHAFT 610 477 C91 2 VALVE 610 751 C1 1 YOKE 609 514 C21)
38	610 477 C91	SHAFT ASSY, clutch (Used with PACK ASSY, 610 094 C91 and 610 095 C91) TD-15BP 20523 to 21158 TD-15BPS 20523 to 21158 (Composed of - 1 PIN 324 238 R1 1 PLATE 610 478 C1 1 PLUG 347 553 R1 1 PLUG 347 554 R1 2 RING 324 222 R1 §1 TUBE
38	610 765 C91	SHAFT, assy clutch (used with PACK ASSY, 610 756 C92 and 610 758 C92) TD-15BP 21159 up TD-15 BPS 21159 up (Composed of - 1 PIN 324 238 R1
Continued in next column		

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
38	610 765 C91	SHAFT, assy. clutch (Cont'd) (Composed of - Cont'd) 2 PIN 17 164 R1 1 PLATE 610 478 C1 1 PLUG 347 553 R1 1 PLUG 347 554 R1 2 RING 324 222 R1)
38	627 138 C91	SHAFT ASSY, clutch (Used with PACK ASSY, 625 800 C91 and 625 802 C92) TD-15BP 25260 up TD-15BPS 25260 up (Composed of - 1 PIN 324 238 R1 2 PIN 17 164 R1 1 PLATE 627 092 C1 1 PLUG 347 553 R1 1 PLUG 347 554 R1 2 RING 324 222 R1)
	17 164 R1	PIN, roll (Use with SHAFT, 610 765 C91 and SHAFT 627 138 C91) (2) TD-15BP 21159 up (2) TD-15BPS 21159 up
39	346 596 R91	PLATE, separator (Order KIT, 610 877 C91) TD-15BP 6001 to 20231 TD-15BPS 9371 to 20231
39	610 478 C1	PLATE, separator TD-15BP 20232 to 25259 TD-15BPS 20232 to 25259
39	627 092 C1	PLATE, separator TD-15BP 25260 up TD-15BPS 25260 up
40	325 014 R1	KEY, reverse drive gear
41	347 553 R1	PLUG, 1/2" pipe
42	324 216 R92	GEAR w/BUSHING, 610 007 C1, first speed drive (Part of TRANSMISSION, 331 957 R93) (B-305811) TD-15BP 6001 to 21158
42	333 844 R92	GEAR w/BUSHING, 610 007 C1, first speed drive (Part of TRANSMISSION, 331 958 R93) (B-306012) TD-15BPS 9371 to 21158
42	610 768 C92	GEAR, clutch (Part of TRANSMISSION, 331 957 R94) TD-15BP 21159 up
42	610 773 C92	GEAR, clutch (Part of TRANSMISSION, 331 958 R94) TD-15BPS 21159 up
43	325 011 R1	WASHER, first speed forward gear thrust TD-15BP 6001 to 21158 TD-15BPS 9371 to 21158
43	611 253 C1	WASHER, first speed forward gear thrust TD-15BP 21159 up TD-15BPS 21159 up
44	321 966 R91	BEARING, forward clutch shaft rear
45	359 894 R1	RING, forward clutch shaft rear bearing snap
46	285 724 R1	"O" RING, forward clutch shaft hydraulic manifold (3-3/8 x 3-5/8 x 1/8")
47	325 059 R1	RING, forward clutch shaft rear sealing (4)
48	350 667 R1	"O" RING, forward clutch shaft hydraulic manifold (1 1/16 x 7/8 x 3/32") (2)
49	325 060 R1 444 698 179 860 103 322	MANIFOLD, forward clutch shaft hydraulic PLUG, 3/8" hex-soc-hd pipe (cd or zn-pltd) (2) 7/16 x 1-1/4" hex-hd cap SCREW (3) 7/16" lock WASHER (3)

§ - Not Furnished Separately.

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
50	654 746 C1	"O" RING, transmission case upper (2-3/8 x 2-3/4 x 3/16") (*)
51	625 821 C1	SPRING, compression (inner) (6) TD-15BP 25260 up TD-15BPS 25260 up
52	625 206 C1	SPRING, compression (outer) (6) TD-15BP 25260 up TD-15BPS 25260 up
627 363 C91		HUB ASSY w/backing PLATE (will work for HUB, 346 646 R91) (Consists of - 1 HUB 627 364 C1 1 PLATE 627 365 C1 1 RING 627 366 C1 1 RING 627 367 C1)
321 970 R91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 331 957 R91) TD-15BP 6001 to 20231 (Order the following parts - 3 CAP SCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 1 PACK ASSY 610 756 C92 1 RING 306 359 R1 1 SEAL 619 586 C91 1 YOKE 609 514 C21)
610 550 C91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 609 959 C91) TD-15BP 20232 to 20522 (Order the following parts - 3 CAP SCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 1 PACK ASSY 610 756 C92 1 RING 306 359 R1 1 SEAL 619 586 C91 1 YOKE 609 514 C21)
610 095 C91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 331 957 R93) (order PACK ASSY, 625 800 C92) TD-15BP 20523 to 21158
610 756 C92		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 800 C92) TD-15BP 21159 to 25259
625 800 C91		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 800 C92) (part of TRANSMISSION, 331 957 R94 and 703 257 C94) TD-15BP 25260 to 25700
627 172 C92		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 800 C92) TD-15BP 25701 to 25729
625 800 C92		PACK ASSY, final clutch (forward) (will work for PACK, 321 970 R91, PACK, 610 550 C91, PACK, 610 095 C91, PACK, 627 172 C91 and PACK, 625 800 C91) (part of TRANSMISSION, 703 257 C94) TD-15BP 25730 up (Composed of - 4 BEARING 610 772 C91 2 BEARING 584 268 R91 2 DISC 625 205 C1 1 GEAR 610 767 C92 1 GEAR 610 768 C92 1 HOUSING 627 669 C1 2 HUB 627 363 C91 2 "O" RING 324 223 R1 4 "O" RING 627 969 C1 1 "O" RING 324 226 R1 1 "O" RING 324 227 R1 2 PIN 324 244 R1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1

Continued in next column

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
FORWARD CLUTCH PACK AND RELATED PARTS- CONTINUED (Rockford)		
625 800 C92		PACK ASSY (Cont'd) (Composed of - Cont'd) 26 PLATE 702 959 C1 24 PLATE 324 241 R1 1 PLATE 627 365 C1 2 PLATE 324 242 R1 4 RETAINER 324 231 R1 2 RING 324 222 R1 1 RING 347 297 R1 2 RING 324 232 R1 2 RING 324 245 R1 2 RING 333 857 R2 1 RING 627 366 C1 1 RING 627 367 C1 1 SHAFT 627 138 C91 2 SPACER 584 269 R1 2 SPACER 610 770 C1 6 SPRING 652 206 C1 6 SPRING 625 821 C1 2 VALVE 610 751 C1 2 WASHER 610 769 C1)
327 434 R91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 331 958 R91) TD-15BPS 9371 to 20231 (Order the following parts - 3 CAPSCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 103 322 1 PACK ASSY 610 758 C91 1 RING 306 359 R1 1 SEAL 619 586 C91 1 YOKE 609 514 C21)
610 552 C91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 609 960 C91) TD-15BPS 20232 to 20522 (Order the following parts - 3 CAPSCREW 610 081 C1 1 HOUSING 609 513 C1 3 7/16" lock WASHER 103 322 1 PACK ASSY 610 758 C92 1 RING 306 359 R1 1 SEAL 619 586 C91 1 YOKE 609 514 C21)
610 094 C91		PACK ASSY, final clutch (forward) (part of TRANSMISSION, 331 958 R93) (order PACK ASSY, 625 802 C92) TD-15BPS 20523 to 21158
610 758 C91		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 802 C92) TD-15BPS 21159 to 25259
625 802 C91		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 802 C92) (part of TRANSMISSION, 331 958 R94 and 703 258 C94) TD-15BPS 25260 to 25700
627 173 C92		PACK ASSY, final clutch (forward) (order PACK ASSY, 625 802 C92) TD-15BPS 25701 to 25729
625 802 C92		PACK ASSY, final clutch (forward) (will work for PACK, 327 434 R91, PACK, 610 552 C91, PACK, 610 758 C91, PACK, 627 173 C92, PACK, 610 094 C91 and PACK, 625 802 C91) (part of TRANSMISSION 703 258 C94) TD-15BPS 25730 up (Composed of - 4 BEARING 610 772 C91 2 BEARING 584 268 R91 2 DISC 625 205 C1 1 GEAR 610 767 C92 1 GEAR 610 773 C92 1 HOUSING 627 669 C1 2 HUB 627 363 C91 2 "O" RING 324 223 R1 4 "O" RING 627 969 C1 1 "O" RING 324 226 R1 1 "O" RING 324 227 R1 1 "O" RING 324 227 R1 2 PIN 324 244 R1 3 PIN 627 666 C1 1 "O" RING 324 226 R1 1 "O" RING 324 227 R1

Continued next page

* - Not Part of Transmission Assembly.

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

625 802 C92 PACK ASSY (Cont'd)
(Composed of - Cont'd)

2	PIN	324 244 R1
3	PIN	627 666 C1
2	PISTON	627 667 C1
1	PISTON	627 668 C1
26	PLATE	702 959 C1
24	PLATE	324 241 R1
2	PLATE	324 242 R1
1	PLATE	627 365 C1
4	RETAINER	324 231 R1
2	RING	324 222 R1
1	RING	347 297 R1
2	RING	324 232 R1
2	RING	324 245 R1
2	RING	333 857 R2
1	RING	627 366 C1
1	RING	627 367 C1
1	SHAFT	627 138 C91
2	SPACER	584 269 R1
2	SPACER	610 770 C1
6	SPRING	625 206 C1
6	SPRING	625 821 C1
2	VALVE	610 751 C1
2	WASHER	610 769 C1)

610 877 C91 KIT, separator plate field service
TD-15BP 6001 to 20231
TD-15BPS 9371 to 20231
(Consists of -

2	DISC	610 760 C1
3	PIN	610 755 C1
2	PISTON	610 481 C1
1	PLATE	610 478 C1
1	RING	324 226 R1
1	RING	324 227 R1
2	VALVE	610 751 C1)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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FORWARD CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

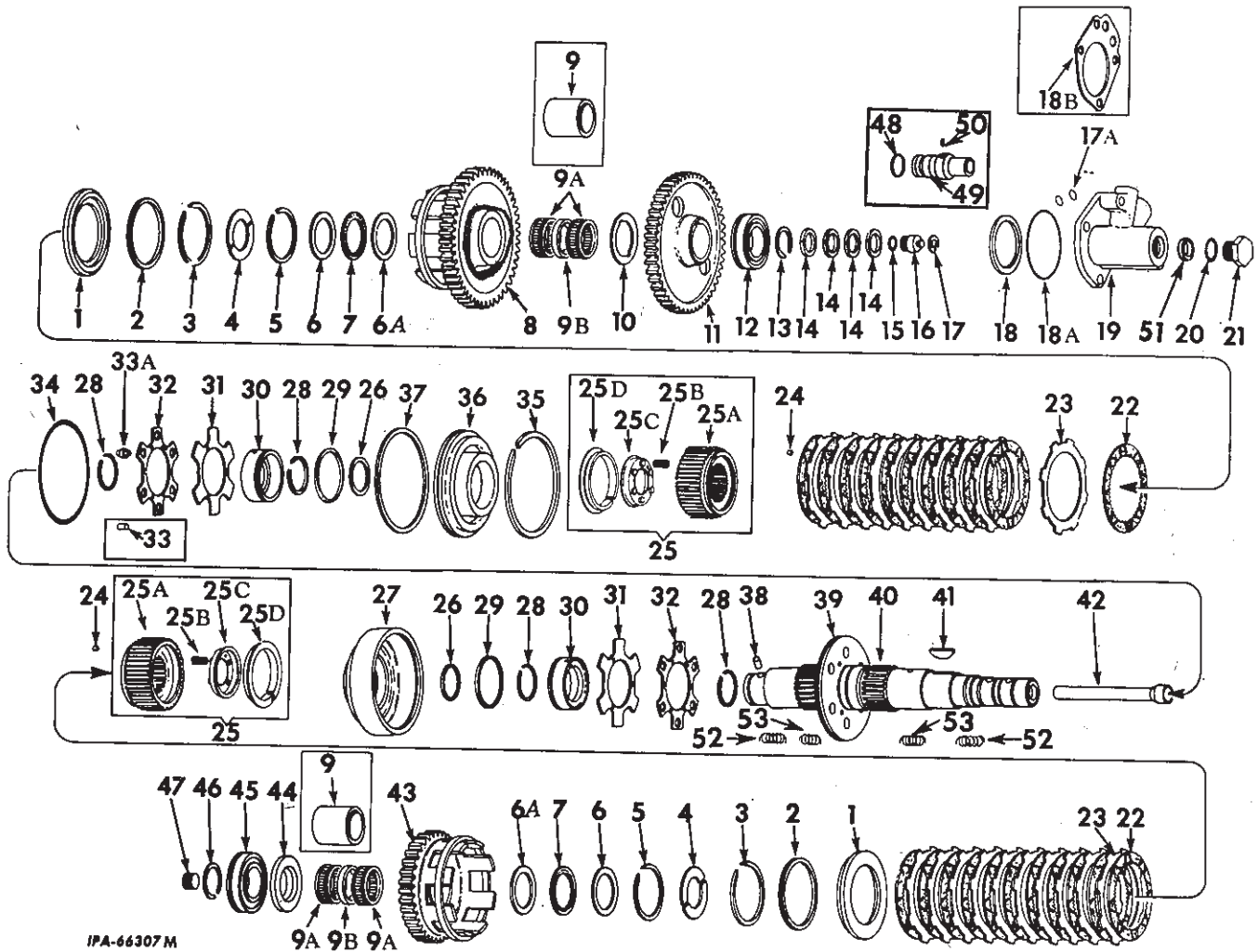
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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REVERSE CLUTCH PACK AND RELATED PARTS
(Rockford)

IPA-66307M

1	627 370 C1	PLATE, backing (part of HUB ASSY, 627 369 C1)
1	324 254 R1	PLATE, clutch backing (2)
2	627 366 C1	RING, snap (external) (part of HUB ASSY, 627 369 C1)
2	324 245 R1	RING, snap (internal) (2)
3	627 367 C1	RING, snap (internal) (part of HUB ASSY, 627 369 C1)
3	333 857 R2	RING, snap (external) (2)
4	324 231 R1	RETAINER, clutch hub (4)
5	324 232 R1	RING, snap (internal) (2)
6	584 269 R1	SPACER, washer (Four used with PACK ASSY, 327 433 R91, 610 551 C91 and 610 553 C91) (two used with PACK ASSY, 610 757 C91 and 610 759 C91)
6A	610 769 C1	WASHER, thrust (Two used with PACK ASSY, 610 757 C92, 610 759 C92, 625 801 C92 and 625 803 C92)

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

7	584 268 R91	BEARING, thrust washer (2)
8	324 215 R92	GEAR w/BUSHING 610 007 C1 second speed drive TD-15BP 6001 to 21158 TD-15BPS 9371 to 21158
8	610 767 C92	GEAR, clutch TD-15BP 21158 up TD-15BPS 21158 up
9	610 007 C1	BUSHING, gear (2) TD-15BP 6001 to 21158 (2) TD-15BPS 9371 to 21158
9A	610 772 C91	BEARING, roller (4) TD-15BP 21159 up (4) TD-15BPS 21159 up
9B	610 770 C1	SPACER, bearing (2) TD-15BP 21159 up (2) TD-15BPS 21159 up
10	325 012 R1	WASHER, second gear thrust

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
11	325 017 R1	GEAR, reverse driven
12	321 966 R91	BEARING, reverse clutch shaft front
13	359 894 R1	RING, reverse clutch shaft front bearing snap
14	325 059 R1	RING, sealing (4)
15	574 069 R1	"O" RING (3/4 x 7/8 x 1/16") (Used with SHAFT ASSY, 324 247 R91)
15	347 641 R1	"O" RING (3/4 x 7/8 x 1/16") (Used with SHAFT ASSY, 610 761 C91 and 627 139 C91)
16	324 253 R2	PLUG, tachometer drive TD-15BP 6001 to 22000 TD-15BPS 9371 to 22000
17	324 252 R1	RING, snap (internal)
17A	350 667 R1	RING, reverse clutch shaft hydraulic manifold seal (11/16 x 7/8 x 3/32") (used with MANIFOLD, 325 082 R2 and MANIFOLD, 604 666 C1) (2)
18	345 836 R1	SHIM, reverse clutch shaft (.010) (X) TD-15BP 7730 up (X) TD-15BPS 9371 up
18	345 837 R1	SHIM, reverse clutch shaft (.030) (X) TD-15BP 7730 up (X) TD-15BPS 9371 up
18A	285 724 R1	RING, reverse clutch shaft hydraulic manifold sealing (3-3/8 x 3-5/8 x 1/8") (used with MANIFOLD, 325 082 R2 and MANIFOLD, 604 666 C1)
18B	325 018 R1	SHIM, reverse clutch shaft (.020) (X) TD-15BP 6001 to 7729
18B	325 019 R1	SHIM, reverse clutch shaft (.010) (X) TD-15BP 6001 to 7729
18B	325 020 R1	SHIM, reverse clutch shaft (.005) (X) TD-15BP 6001 to 7729
19	325 082 R1	MANIFOLD, reverse clutch shaft hydraulic TD-15BP 6001 to 7729 (Order the following parts - 1 MANIFOLD 604 666 C1 1 PLUG 604 667 C1 1 RING 285 724 R1 1 RING 307 915 R1 2 RING 350 667 R1 3 SHIM 345 836 R1 3 SHIM 345 837 R1)
19	325 082 R2	MANIFOLD, reverse clutch shaft hydraulic TD-15BP 7730 to 20118 TD-15BPS 9371 to 20118 (Order the following parts - 1 MANIFOLD 604 666 C1 1 PLUG 604 667 C1 1 RING 307 915 R1)
19	604 666 C1	MANIFOLD, reverse clutch shaft hydraulic TD-15BP 20119 up TD-15BPS 20119 up 444 698 PLUG, 3/8" hex-soc-pipe (cd or zn-pltd) (2) 179 860 7/16 x 1-1/4" hex-hd cap SCREW (2) 179 867 7/16 x 2-1/4" hex-hd cap SCREW 179 872 7/16 x 3-1/2" hex-hd cap SCREW 103 322 7/16" lock WASHER (4)
20	296 247 R1	RING, tachometer cable adapter TD-15BP 6001 to 20018 TD-15BPS 9371 to 20118
20	307 915 R1	RING, tachometer cable adapter TD-15BP 20119 up TD-15BPS 20119 up
21	9 410 363	PLUG, reverse clutch shaft hydraulic manifold TD-15BP 6001 to 20118 TD-15BPS 9371 to 20118
21	604 667 C1	PLUG, reverse clutch shaft hydraulic manifold TD-15BP 20119 up TD-15BPS 20119 up
22	702 959 C1	PLATE, internal splines (22) (22 PLATE, 702 959 C1 will work for PLATE, 324 240 R1) (See NOTE)
22	324 240 R1	PLATE, internal splined (22) (order 22 PLATES, 702 959 C1) (See NOTE)
23	324 241 R1	PLATE, external splined (20)
24	324 244 R1	PIN, dowel (2)
25	346 646 R91	HUB, clutch (order HUB ASSY, 627 369 C91) (2)
25	627 364 C1	HUB, clutch (part of HUB ASSY, 627 363 C91)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
25A		HUB (Not furnished separately)
25B		SPRING, piston return (Not furnished separately)
25C		RETAINER, spring (Not furnished separately)
25D		RETAINER, plate (Not furnished separately)
26	627 969 C1	"O" RING (piston hook type) (4)
27	324 228 R2	HOUSING, clutch piston TD-15BP 6001 to 25729 TD-15BPS 9371 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
27	627 669 C1	HOUSING, clutch piston TD-15BP 25730 up TD-15BPS 25730 up
28	324 222 R1	RING, snap (external) (4)
29	324 223 R2	"O" RING (Piston hook type) (2)
30	324 221 R1	PISTON, accelerating (order two PISTON, 610 481 C1) (2) TD-15BP 6001 to 20231 (2) TD-15BPS 9371 to 20231
30	610 481 C1	PISTON, accelerating (2) TD-15BP 20232 to 25259 (2) TD-15BPS 20232 to 25259
30	627 093 C1	PISTON, accelerating (2) TD-15BP 25260 to 25729 (2) TD-15BPS 25260 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
30	627 667 C1	PISTON, accelerating (2) TD-15BP 25730 up (2) TD-15BPS 25730 up
31	324 220 R1	VALVE, disc (Used with PACK ASSY, 321 971 R91 and 327 433 R91) (2)
31	610 751 C1	VALVE, disc (Used with PACK ASSY, 610 551 C91, 610 553 C91, 610 757 C92, 610 759 C92, 625 801 C92 and 625 803 C92) (2)
32	324 219 R1	DISC, reinforcing (Used with PACK ASSY, 321 971 R91 and 327 433 R91) (2)
32	625 205 C1	DISC, reinforcing (Used with PACK ASSY, 610 757 C92, 610 759 C92, 625 801 C92, and 625 803 C92) (2)
32	610 760 C1	DISC, reinforcing (Used with PACK ASSY, 610 551 C91, 610 553 C91, 610 757 C92 and 610 759 C92) (2)
33	324 218 R1	PIN, dowel (Used with PACK ASSY, 321 971 R91 and 327 433 R91) (3)
33A	610 755 C1	PIN, guide (3) TD-15BP 6001 to 25729 (3) TD-15BPS 9371 to 25729 (Order the following parts - 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
33A	627 666 C1	PIN, guide (3) TD-15BP 25730 up (3) TD-15BPS 25730 up
34	324 227 R1	"O" RING
35	347 297 R1	RING, snap (internal)
36	324 225 R2	PISTON, clutch TD-15BP 6001 to 25729 TD-15BPS 9371 to 25729 1 HOUSING 627 669 C1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1)
36	627 668 C1	PISTON, clutch TD-15BP 25730 up TD-15BPS 25730 up

NOTE: Do Not Intermix Clutch Plate
702 959 C1 with Displaced 324 240 R1
Clutch Plates in Any One Clutch Pack
Assembly.

X - As Required.

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED
 (Rockford)

37	324 226 R1	"O" RING (lathe cut)	
38	324 238 R1	PIN, dowel (A-305177)	
39	346 596 R91	PLATE, separator (Order PACKAGE, 610 877 C91)	TD-15BP 6001 to 20231 TD-15BPS 9371 to 20231
39	610 478 C1	PLATE, separator	TD-15BP 20232 to 25259 TD-15BPS 20232 to 25259
39	627 092 C1	PLATE, separator	TD-15BP 25260 up TD-15BPS 25260 up
40	324 247 R91	SHAFT ASSY, clutch (Order PACKAGE, 610 876 C91)	TD-15BP 6001 to 20231 TD-15BPS 9371 to 20231

MEMORANDA

-248B-

MEMORANDA

-248B-

MEMORANDA

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
40	610 761 C91	SHAFT ASSY, clutch (Used with PACK ASSY, 321 971 R91, 610 551 C91 and 610 553 C91) TD-15BP 20232 to 21158 TD-15BPS 20232 to 21158 (Composed of - 1 "O" RING 347 641 R1 1 PIN 324 238 R1 1 PLATE 610 478 C1 1 PLUG 324 253 R1 1 PLUG 347 553 R1 2 RING 324 222 R1 1 RING 324 252 R1 1 TUBE)
40	610 771 C91	SHAFT ASSY, clutch (Used with PACK ASSY, 610 757 C92 and 610 759 C92) TD-15BP to 25259 TD-15BPS to 25259 (Composed of - 1 "O" RING 347 641 R1 2 PIN 17 164 R1 1 PIN 324 238 R1 1 PLATE 610 478 C1 1 PLUG 324 253 R1 1 PLUG 347 553 R1 2 RING 324 222 R1 1 RING 324 252 R1)
40	627 139 C91	SHAFT ASSY, clutch (Used with PACK ASSY, 625 801 C91 and PACK ASSY, 625 803 C91) TD-15BP 25260 up TD-15BPS 25260 up (Composed of - 1 "O" RING 347 641 R1 2 PIN 17 164 R1 1 PLATE 627 092 C1 1 PLUG 324 253 R1 1 PLUG 347 553 R1 2 RING 324 222 R1 1 RING 324 252 R1)
	17 164 R1	PIN, roll (Use with SHAFT, 610 771 C91 and SHAFT, 627 139 C91) (2) TD-15BP 21159 up (2) TD-15BPS 21159 up
41	118 002	KEY, reverse drive gear
42		TUBE (Not furnished separately)
43	324 216 R92	GEAR w/BUSHING 610 007 C1, first speed drive (Part of TRANSMISSION, 331 957 R93) TD-15BP 6001 to 21158
43	333 844 R92	GEAR w/BUSHING 610 007 C1, first speed drive (Part of TRANSMISSION, 331 958 R93) TD-15BPS 9371 to 21158
43	610 768 C92	GEAR, clutch (Part of TRANSMISSION, 331 957 R94 and 703 257 C93) TD-15BP 21159 up
43	610 773 C92	GEAR, clutch (Part of TRANSMISSION, 331 958 R94 and 703 257 C93) TD-15BPS 21159 up
44	325 016 R1	WASHER, first speed reverse gear thrust TD-15BP 6001 to 21158 TD-15BPS 9371 to 21158
44	611 254 C1	WASHER, first speed reverse gear thrust TD-15BP 21159 up TD-15BPS 21159 up
45	272 477 R91	BEARING, reverse clutch shaft rear
46	359 141 R1	RING, reverse clutch shaft rear bearing snap
47	347 553 R1	PLUG, 1/2" pipe
48	574 069 R1	"O" RING, 3/4 x 7/8 x 1-1/16" TD-15BP 22001 to 23101 TD-15BPS 22001 to 23101
49	604 352 C11	DRIVE w/DOWEL, 141 106, flexible shaft TD-15BP 22001 to 23101 TD-15BPS 22001 to 23101

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED (Rockford)		
50	141 106	DOWEL, flexible shaft TD-15BP 22001 to 23101 TD-15BPS 22001 to 23101
51	603 869 C91	SEAL, flexible drive shaft TD-15BP 22001 to 23101 TD-15BPS 22001 to 23101
52	625 821 C1	SPRING, compression (inner) (6) TD-15BP 25260 up TD-15BPS 25260 up
53	625 206 C1	SPRING, compression (outer) (6) TD-15BP 25260 up TD-15BPS 25260 up
	321 971 R91	PACK ASSY, final clutch (reverse) (Part of TRANSMISSION, 331 957 R91) (Order PACK ASSY, 625 801 C92) TD-15BP 6001 to 20231
	610 551 C91	PACK ASSY, final clutch (reverse) (Part of TRANSMISSION, 609 959 C91) (Will work for PACK ASSY, 321 971 R91) (Order PACK ASSY, 625 801 C92) TD-15BP 20232 to 21158
	610 757 C92	PACK ASSY, final clutch (reverse) (Order PACK ASSY, 625 801 C92) TD-15BP 21159 to 25259
	625 801 C91	PACK ASSY, final clutch (reverse) (Order PACK ASSY, 625 801 C92) (Part of TRANSMISSION, 331 957 R94 and 703 257 C94) TD-15BP 25260 to 25700
	627 171 C92	PACK ASSY, final clutch (reverse) (Order PACK ASSY, 625 801 C92) TD-15BP 25701 to 25729
	625 801 C92	PACK ASSY, final clutch (reverse) (Will work for PACK 321 971 R91, PACK, 610 551 C91, PACK 627 171 C92, and PACK 625 801 C91) (Part of TRANSMISSION 703 257 C95) TD-15BP 25730 up (Composed of - 4 BEARING 610 772 C91 2 BEARING 584 268 R91 2 DISC 625 205 C1 1 GEAR 610 767 C92 1 GEAR 610 768 C92 1 GEAR 324 216 R91 1 HOUSING 627 669 C1 2 HUB 627 369 C91 2 "O" RING 324 223 R2 4 "O" RING 627 969 C1 1 "O" RING 324 226 R1 1 "O" RING 324 227 R1 2 PIN 324 244 R1 3 PIN 627 666 C1 2 PISTON 627 667 C1 1 PISTON 627 668 C1 22 PLATE 702 959 C1 20 PLATE 324 241 R1 2 PLATE 324 242 R1 1 PLATE 627 370 C1 2 SPACER 610 770 C1 2 VALVE 610 751 C1 2 WASHER 610 769 C1 4 RETAINER 324 231 R1 2 RING 324 222 R1 1 RING 347 297 R1 2 RING 324 232 R1 2 RING 324 245 R1 1 RING 627 366 C1 1 RING 627 367 C1 2 RING 333 857 R2 1 SHAFT 627 139 C91 2 SPACER 584 269 R1 6 SPRING 625 206 C1 6 SPRING 625 821 C1)

8 - Not Furnished Separately.

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TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

627 369 C91	HUB ASSY w/backing plate (will work for HUB, 346 646 R91)	
	(Consists of -	
1	HUB	627 364 C1
1	PLATE	627 370 C1
1	RING	627 366 C1
1	RING	627 367 C1)
327 433 R91	PACK ASSY, final clutch (reverse) (part of TRANSMISSION, 331 958 R91) (Order PACK ASSY, 625 803 C92)	
	TD-15BPS 9371 to 20231	
610 553 C91	PACK ASSY, final clutch (reverse) (part of TRANSMISSION, 609 960 C91) (Order PACK ASSY, 625 803 C92)	
	TD-15BPS 20232 to 21158	
610 759 C92	PACK ASSY, final clutch (reverse) (order PACK ASSY, 625 803 C92)	
	TD-15BPS 21159 to 25259	
625 803 C91	PACK ASSY, final clutch (reverse) (Order PACK ASSY, 625 803 C92) (part of TRANSMISSION, 331 958 R94 and 703 258 C94)	
	TD-15BPS 25260 to 25700	
627 174 C92	PACK ASSY, final clutch (reverse) (Order PACK ASSY, 625 803 C92)	
	TD-15BPS 25701 to 25729	
625 803 C92	PACK ASSY, final clutch (reverse) (will work for PACK, 327 433 R91, PACK, 610 553 C91, PACK, 627 174 C92 and PACK, 625 803 C91) (part of TRANSMISSION, 703 258 C94)	
	TD-15BPS 25730 up	
	(Composed of -	
4	BEARING	610 772 C91
2	BEARING	584 368 R91
2	DISC	625 205 C1
1	GEAR	610 767 C92
1	GEAR	610 773 C92
1	HOUSING	627 669 C1
2	HUB	627 369 C91
2	"O" RING	324 223 R2
2	"O" RING	627 969 C1
1	"O" RING	324 226 R1
1	"O" RING	324 227 R1
2	PIN	324 244 R1
3	PIN	627 666 C1
2	PISTON	627 667 C1
1	PISTON	627 668 C1
22	PLATE	702 959 C1
20	PLATE	324 241 R1
2	PLATE	324 242 R1
1	PLATE	627 370 C1
4	RETAINER	324 231 R1
2	RING	324 222 R1
1	RING	347 297 R1
2	RING	324 232 R1
2	RING	324 245 R1
2	RING	333 857 R2
1	RING	627 366 C1
1	RING	627 367 C1
1	SHAFT	627 139 C91
2	SPACER	584 269 R1
2	SPACER	610 770 C1
6	SPRING	625 206 C1
6	SPRING	625 821 C1
2	VALVE	610 751 C1
2	WASHER	610 769 C1)

610 876 C91 KIT, clutch shaft field service
TD-15BP 6001 to 20231
TD-15BPS 9371 to 20231

	(Consists of -	
2	DISC	610 760 C1
3	PIN	610 755 C1
2	PISTON	610 481 C1
1	RING	324 226 R1
1	RING	324 227 R1
1	SHAFT	610 761 C91
2	VALVE	610 751 C1)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

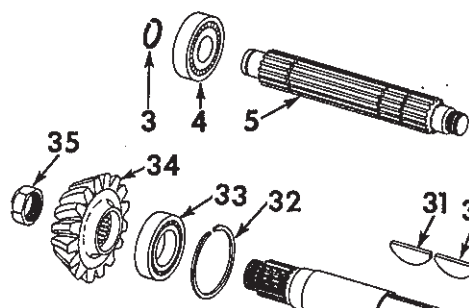
REF. NO.	I. H. PART NUMBER	DESCRIPTION
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REVERSE CLUTCH PACK AND RELATED PARTS - CONTINUED
(Rockford)

610 877 C91	KIT, separator plate field service	
	TD-15BP 6001 to 20231	
	TD-15BPS 9371 to 20231	
	(Consists of -	
2	DISC	610 760 C1
3	PIN	610 755 C1
2	PISTON	610 481 C1
1	PLATE	610 478 C1
1	RING	324 226 R1
1	RING	324 227 R1
2	VALVE	610 751 C1)

TRANSMISSION

(FOR POWER SHIFT CRAWLER TRACTORS)

BEVEL PINION SHAFT, SPLINE SHAFT AND
RELATED PARTS

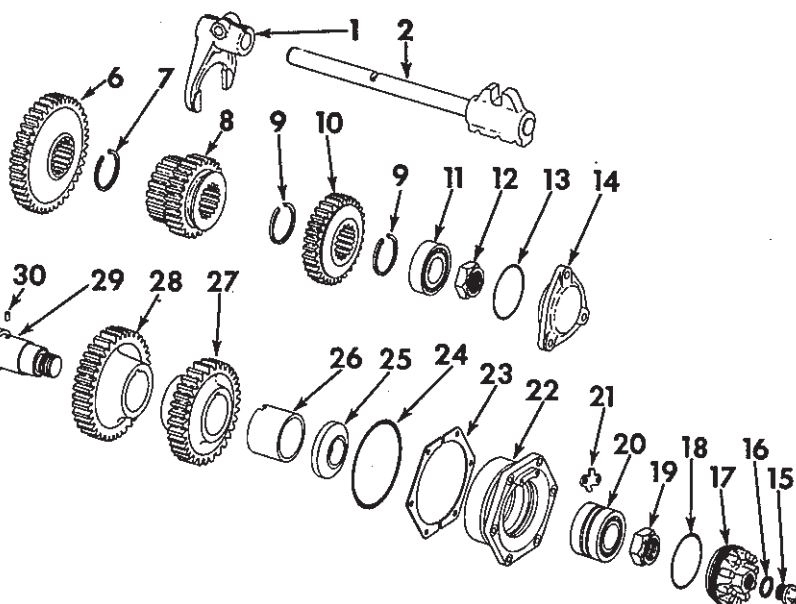
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REF. NO.	I.H. PART NUMBER	DESCRIPTION
1	325 025 R1 454 522 R1	FORK, high low shifter NUT, lock 1/2 x 2-1/4" hex-hd cap SCREW
2	325 023 R11	SHAFT, high low shifter
3	359 894 R1	RETAINER, spline shaft rear bearing
4	272 479 R91	BEARING, spline shaft rear
5	325 081 R1	SHAFT, spline
6	325 056 R1	GEAR, first speed driven (42 T) (%)
6	325 988 R1	GEAR, first speed driven (44 T) (#)
7	324 051 R1	RETAINER, first speed driven gear
8	334 956 R1	GEAR, high and low speed driving (21-25T) (order GEAR 604 995 C1, GEAR 604 996 C1 and GEAR 604 997 C1) (#) TD-15BPS 9371 to 20522
8	334 957 R1	GEAR, high and low speed driving (21-25T) (order GEAR 604 992 C1, GEAR 604 993 C1 and GEAR 604 994 C1) (%) TD-15BP 6001 to 20522
8	604 993 C1	GEAR, high and low speed driving (21-25T) (%) TD-15BP 20523 up
8	604 995 C1	GEAR, high and low speed driving (20-24T) (#) TD-15BPS 20523 up
9	324 051 R1	RING, second speed driven gear snap (2)
10	325 058 R1	GEAR, second speed driven (31 T)
11	321 968 R91	BEARING, spline shaft front
12	19 499 R1	NUT, spline shaft
13	285 723 R1	"O" RING, spline shaft bearing cap (3-1/8 x 3-3/8 x 1/8")

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(FOR POWER SHIFT CRAWLER TRACTORS)

BEVEL PINION SHAFT, SPLINE SHAFT AND
RELATED PARTS - CONTINUED

REF. NO.	I.H. PART NUMBER	DESCRIPTION
14	325 008 R1 179 860 103 322	CAP, spline shaft bearing 7/16 x 1-1/4" hex-hd cap SCREW (3) 7/16" lock WASHER (3)
15	269 909 R2	PLUG, bevel pinion shaft front bearing retainer
16	269 910 R1	GASKET, bevel pinion shaft front bearing retainer plug
17	325 005 R1	RETAINER, bevel pinion shaft front bearing
18	285 723 R1	"O" RING, bevel pinion shaft front bearing retainer (3-1/8 x 3-3/8 x 1/8")
19	19 499 R1	NUT, bevel pinion shaft front
20	321 969 R91	BEARING, bevel pinion shaft front
21	325 007 R1 179 837 103 321	LOCK, bevel pinion shaft front bearing retainer 3/8 x 3/4" hex-hd cap SCREW (2) 3/8" lock WASHER (2)
22	334 685 R2 179 862 103 322	CAGE, pinion shaft bearing 7/16 x 1-1/2" hex-hd cap SCREW (6) 7/16" lock WASHER (6)
23	334 686 R1	SHIM, bevel pinion shaft (medium) (.015) (X)
23	334 687 R1	SHIM, bevel pinion shaft (light) (.007) (X)
23	334 688 R1	SHIM, bevel pinion shaft (extra light) (.004) (X)
24	610 415 C1	"O" RING, bevel pinion shaft bearing cage (4-7/8 x 5-3/8 x 1/4")
25	325 004 R1	SPACER, bevel pinion shaft front
26	325 003 R1	SPACER, bevel pinion shaft rear

(X) - As Required.

(%) - Part of Transmission, 331 957 R93,
R94 and 703 257 C94.# - Part of Transmission, 331 958 R93,
R94 and 703 258 C94.

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MEMORANDA

(FOR POWER SHIFT CRAWLER TRACTORS)

REF. NO.	I. H. PART NUMBER	DESCRIPTION
BEVEL PINION SHAFT, SPLINE SHAFT AND RELATED PARTS - CONTINUED		
27	334 954 R1	GEAR, high range driven (34T) (order Gear 604 995 C1, GEAR 604 996 C1 and GEAR 604 997 C1) (#) TD-15BPS 9371 to 20522
27	334 955 R1	GEAR, high range driven (33T) (order GEAR 604 992 C1, GEAR 604 993 C1 and GEAR 604 994 C1) (%) TD-15BP 6001 to 20522
27	<u>604 992 C1</u>	GEAR, high range driven (33T) (%) TD-15BP 20523 up
27	604 997 C1	GEAR, high range driven (34T) (#) TD-15BPS 20523 up
28	325 001 R1	GEAR, low range driven (37T) (order GEAR 604 992 C1, GEAR 604 993 C1 and GEAR 604 994 C1) (%) TD-15BP 6001 to 20522
28	330 571 R1	GEAR, low range driven (37T) (order GEAR 604 995 C1, GEAR 604 996 C1 and GEAR 604 997 C1) (#) TD-15BPS 9371 to 20522
28	<u>604 994 C1</u>	GEAR, low range driven (37T) (%) TD-15BP 20523 up
28	604 996 C1	GEAR, low range driven (37T) (#) TD-15BPS 20523 up
29	325 054 R1	SHAFT, bevel pinion (18 T)
30	141 127	PIN, 5/32 x 5/16" dowel
31	12 484 R1	KEY, high and low range driven gear (2)
32	324 049 R1	RETAINER, rear bearing bevel pinion
33	321 967 R91	BEARING, pinion rear
34	325 055 R1	PINION, bevel (*)
35	19 829 R1	NUT, bevel pinion retainer
	334 226 R1	GEAR, drive bevel (*)
	331 786 R91	GEAR, 334 226 R1 and PINION, 325 055 R1 drive bevel (matched set) (*)

(*) Also Listed and Illustrated with
"Steering Planetary Drive."

(%) - Part of Transmission, 331 957 R93,
R94 and 703 257 C91.

(#) - Part of Transmission, 331 958 R93,
R94 and 703 258 C91.