

MICHIGAN

PARTS MANUAL

No. 2814

MODEL 275-B

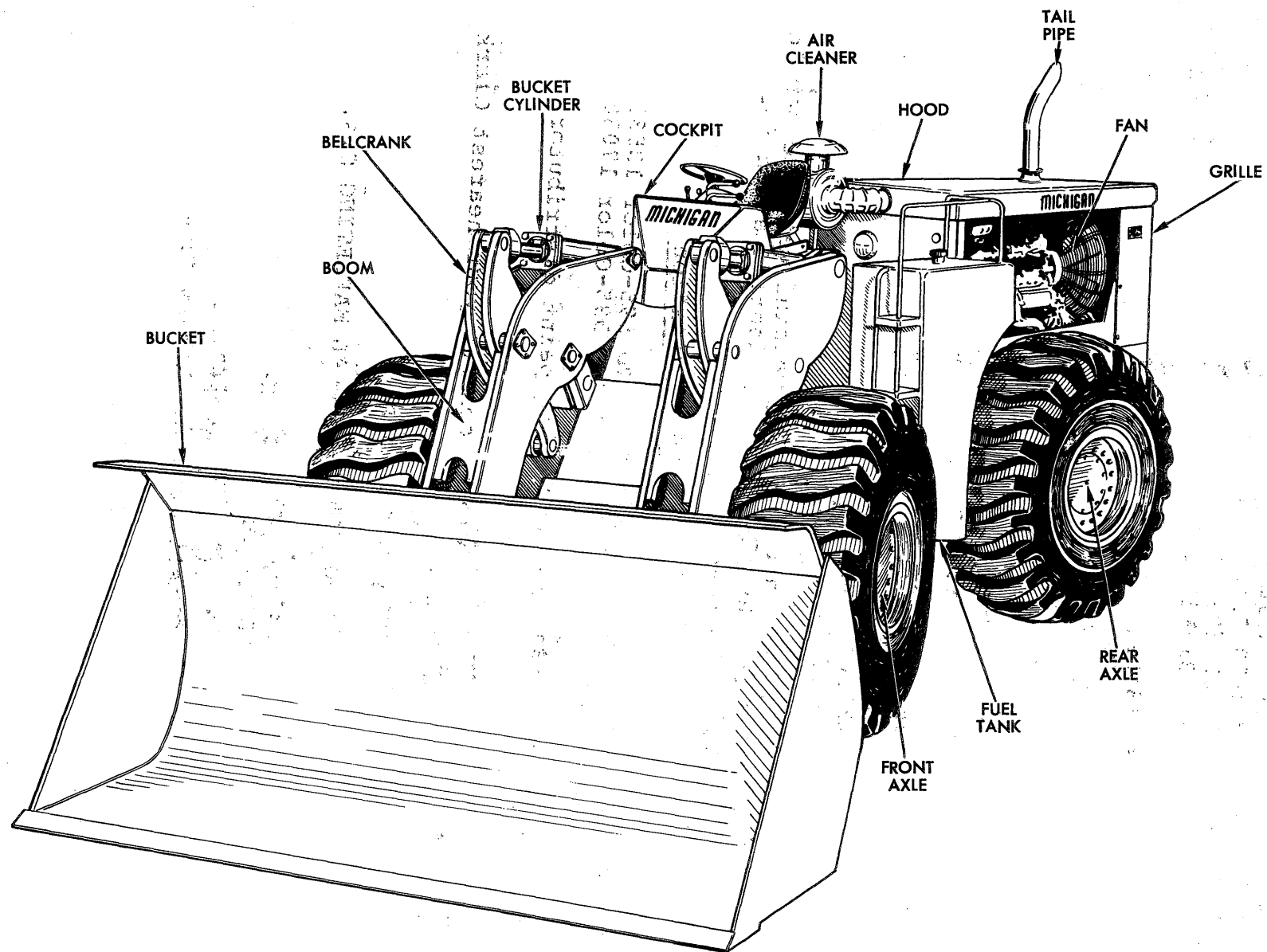
Articulated

TRACTOR SHOVEL

Information contained herein pertains to
Machine Serial Numbers listed below:
275B CUMMINS — 425A101 and After

Record Your Machine
Serial Number Here

CLARK EQUIPMENT COMPANY



MODEL 275B ARTICULATED TRACTOR SHOVEL

TS-11045

275B	2513352 (Clark)	2
	2513628 (Clark) (Front)	1
	2513638 (275B)	2
	2513631 (Michigan)	2
475	2513632 (Michigan)	2
	2513628 (Clark) (Front)	1
	2513639 (475B)	2
280	2513351 (Clark)	2
	2513628 (Clark) (Front)	1
	2513641 (280)	2
	2513629 (Michigan)	2
380	2513351 (Clark)	2
	2513628 (Clark) (Front)	1
	2513642 (380)	2
	2513631 (Michigan)	2

Paint Color: Must be a uniform and tight commercial match to sample of the required color. Color designation and identification for samples of color shall be as follows:

Designation

Identification

MS230 Yellow
MS230 Black

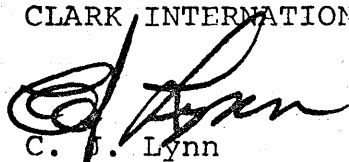
FED STD 595-Color 13538
FED STD 595-Color 17038

We will from time to time release brand name paint distributor for your use.

If you have any further questions please contact your nearest Clark International Service Department.

Very truly yours,

CLARK INTERNATIONAL MARKETING S.A.



C. J. Lynn
Service Administrator
Construction Machinery Group

WHEN ORDERING REPAIR PARTS

To assure the best results and to maintain the original quality built into the machine it is important that only Clark-Approved Parts be used when new parts are required.

IMPORTANT: Always furnish the distributor with the machine serial number when ordering parts.
Order through your nearest Clark Distributor, for THE MICHIGAN LINE.

Always give serial number of machine.

Furnish: Quantity, Part Number and Description.

WHEN PARTS ARE RECEIVED

Check immediately for quantity, correctness and condition.

Claims for damages, during shipment, should be made to the carrier immediately.

PARTS MANUAL ARRANGEMENT

The various parts groups involved in this equipment are arranged in this manual in alphabetical order. Each alphabetical parts group is page numbered separately with the page numbers prefixed by the alphabetical letter designated for that group, i.e., A1, A2, B1, B2, etc. Following the alphabetical and page number designation, and separated therefrom by a hyphen (-), is the page version number, i.e., A1-1, A1-2, etc. This designation indicates the revision numbers assigned to incorporate design changes in the equipment covered by that page.

Parts Groups "A" thru "Y" include all items furnished as standard equipment at date of this publication. All optional and accessory items are listed under Group "Z" in the rear of this manual. An alphabetical index is given below to permit locating individual parts and items. In addition, each alphabetical parts group contains a separate index on the first page thereof, listing the parts groups contained therein.

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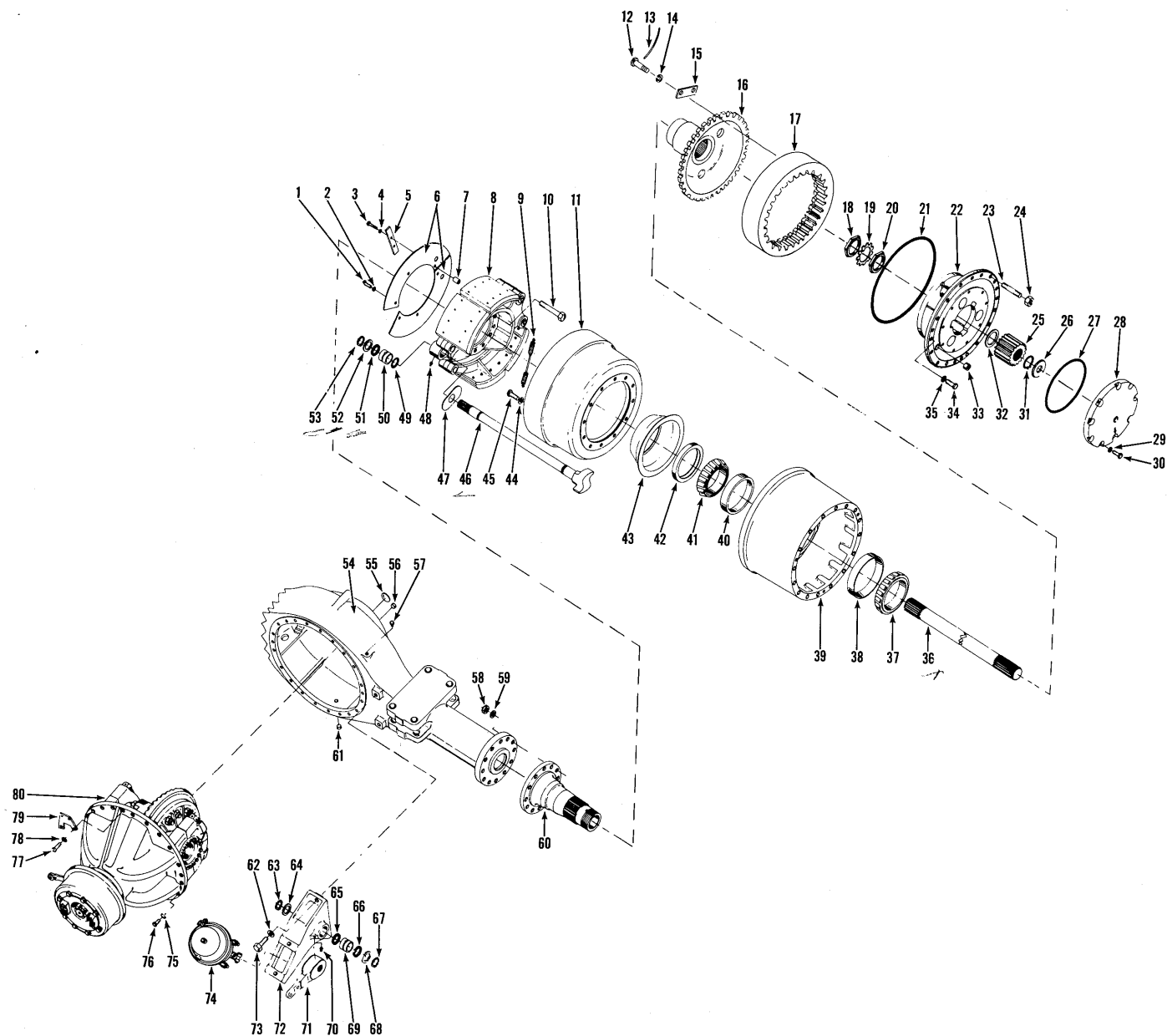
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AXLE ASSEMBLY — FRONT
For Serial: 425A101 thru 263

TS-9183

AXLE ASSEMBLY — FRONT

For Serial: 425A101 thru 263

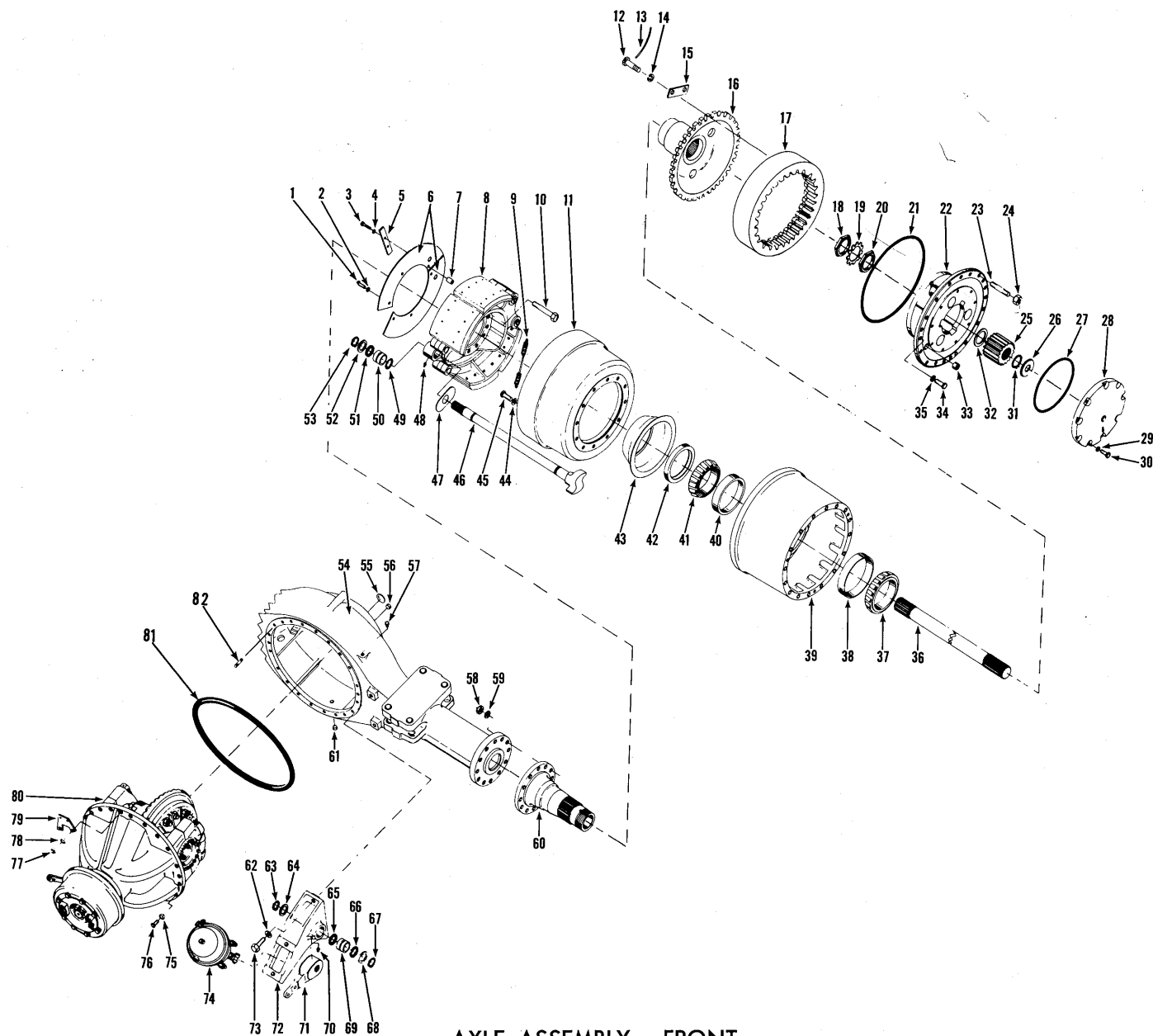
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	191131	AXLE ASSY (Inc. 1 thru 80) (FD-70500)	1	46A	122515	†CAMSHAFT — L.H.	1
1	1C-632	BOLT, Dust Cover	4	47	107735	WASHER, Camshaft Thrust	2
2	4E-06	LKWSHR, Dust Cover	4	48	12H-15	FITTING, Brake Spider Grease	2
3	1C-636	BOLT, Dust Cover	4	49	25K-60124	O-RING, Camshaft	2
4	4E-06	LKWSHR, Dust Cover	4	50	107739	BUSHING, Brake Spider	2
5	112695	PLATE, Dust Cover Reinforcing	2	51	11E-135	RETAINER, Camshaft Grease	2
6	118306	COVER, Brake Dust	4	52	107736	WASHER, Camshaft Retaining	2
7	655673	SPACER, Brake Dust Cover	8	53	660516	RING, Camshaft Retaining	2
8	—	BRAKE ASSY — See Index	—	54	122510	HOUSING, Axle	1
9	119650	SPRING, Brake Return	2	55	—	OMIT — Not Used This Application	—
10	107731	BOLT, Brake Attaching	24	56	226858	PLUG, Housing Filler	1
11	121203	DRUM, Brake	2	57	121214	BREATHER, Axle Housing	1
12	4C-820	BOLT, Hub to Gear	24	58	107732	NUT, Brake Attaching	24
13	—	‡LOCKWIRE — 18 ga.	—	59	111658	WASHER, Brake Attaching	24
14	4E-08	LKWSHR, Hub to Gear	24	60	122511	SPINDLE	2
15	122701	PLATE, Hub to Gear Retaining	12	61	731221	PLUG, Housing Drain	1
16	122508	HUB, Internal Gear	2	62	4E-12	LKWSHR, Air Chamber Bracket Mounting	4
17	119742	GEAR, Internal Ring	2	63	659764	RING, Slack Adjuster Retaining	2
18	114434	NUT, Inner Spindle	2	64	107010	WASHER, Slack Adjuster Retaining	2
19	108028	LOCK, Spindle Nut	2	65	11E-135	RETAINER, Camshaft Grease	2
20	114434	NUT, Outer Spindle	2	66	11E-135	RETAINER, Camshaft Grease	2
21	108031	O-RING, Planet Carrier	2	67	660516	RING, Camshaft Retaining	2
22	—	AXLE PLANET CARRIER ASSY — See Index	—	68	107736	WASHER, Camshaft Retaining	2
23	118831	STUD, Wheel Mounting	32	69	107739	BUSHING, Air Chamber Bracket	2
24	64D-14	NUT, Wheel Mounting	32	70	10H-25	FITTING, Air Chamber Bracket Grease	2
25	122512	GEAR, Sun	2	71	108476	*ADJUSTER, Brake Slack (B.W. #226655)	2
26	108475	WASHER, Sun Gear Thrust	2	72	122947	BRACKET, Air Chamber — R.H.	1
27	116923	O-RING, Cap to Carrier	2	72A	122948	†BRACKET, Air Chamber — L.H.	1
28	116937	CAP, Sun Gear Thrust (Inc. 26)	2	73	1C-1236	BOLT, Air Chamber Bracket Mounting	4
29	106762	WASHER, Thrust Cap Mounting	18	74	110206	*AIR CHAMBER ASSY (B.W. #229403) (Inc. 74A thru 74G)	2
30	1C-824	BOLT, Thrust Cap Mounting	18	74A	944735	†DIAPHRAGM, Air Chamber	2
31	224073	RING, Sun Gear Thrust	2	74B	945725	†BOOT, Air Chamber	2
32	108478	WASHER, Sun Gear Thrust	2	74C	1551657	†RETAINER, Boot	2
33	119470	PLUG, Planet Filler	2	74D	1551385	†SPRING	2
34	1C-1030	BOLT, Planet Carrier	6	74E	949135	†PUSH ROD	2
35	4E-10	LKWSHR, Planet Carrier	6	74F	3292162	†YOKE	2
36	122513	SHAFT, Axle	2	74G	8D-10	†NUT, Yoke Lock	2
37	1317348	CONE, Outer Hub Bearing	2	75	104412	WASHER, Carrier to Housing	24
38	713323	CUP, Outer Hub Bearing	2	76	117336	STUD, Carrier to Housing	6
39	120391	HUB ASSY (Inc. 38, 40)	2	76A	120771	†STUD, Carrier to Housing	22
40	1311615	CUP, Inner Hub Bearing	2	77	1C-1012	BOLT, Carrier Puller	4
41	1311939	CONE, Inner Hub Bearing	2	78	4E-10	LKWSHR, Carrier Puller	4
42	120395	SEAL, Hub Oil	2	79	536879	BRACKET, Release Valve	1
43	120534	CATCHER, Oil	2	80	—	AXLE DIFFERENTIAL & CARRIER ASSY (See Index)	—
44	111656	WASHER, Brake Drum	24				
45	122516	BOLT, Brake Drum	24				
46	122514	CAMSHAFT — R.H.	1				

‡As Required

†Not Illustrated

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of this part.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — FRONT
For Serial: 425A264 thru 999

TS-11141

AXLE ASSEMBLY — FRONT

For Serial: 425A264 thru 999

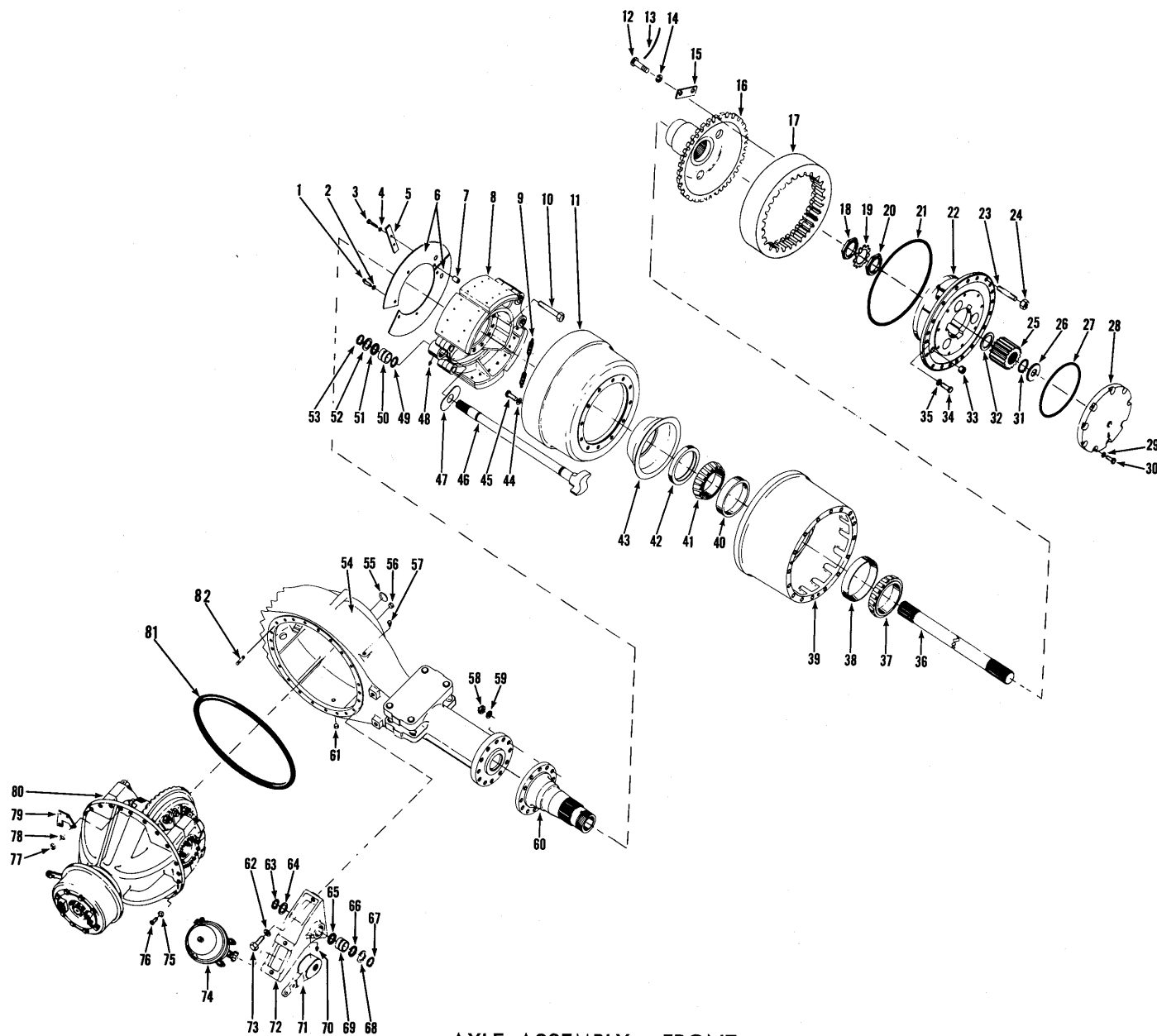
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	191290	AXLE ASSY (Inc. 1 thru 82A) (D-75501)	1	47	107735	WASHER, Camshaft Thrust	2
1	1C-632	BOLT, Dust Cover	4	48	12H-15	FITTING, Brake Spider Grease	2
2	4E-06	LKWSHR, Dust Cover	4	49	25K-60124	O-RING, Camshaft	2
3	1C-636	BOLT, Dust Cover	4	50	107739	BUSHING, Brake Spider	2
4	4E-06	LKWSHR, Dust Cover	4	51	11E-135	RETAINER, Camshaft Grease	2
5	112695	PLATE, Dust Cover Reinforcing	2	52	107736	WASHER, Camshaft Retaining	2
6	118306	COVER, Brake Dust	4	53	660516	RING, Camshaft Retaining	2
7	655673	SPACER, Brake Dust Cover	8	54	122510	HOUSING, Axle	2
8	—	BRAKE ASSY — See Index	—	55	—	OMIT — Not Used This Application	—
9	119650	SPRING, Brake Return	2	56	226858	PLUG, Housing Filler	1
10	107731	BOLT, Brake Attaching	24	57	121214	BREATHER, Axle Housing	1
11	121203	DRUM, Brake	2	58	107732	NUT, Brake Attaching	24
12	4C-820	BOLT, Hub to Gear	24	59	111658	WASHER, Brake Attaching	24
13	—	‡ LOCKWIRE — 18 ga.	—	60	122511	SPINDLE	2
14	4E-08	LKWSHR, Hub to Gear	24	61	731221	PLUG, Housing Drain	1
15	122701	PLATE, Hub to Gear Retaining	12	62	4E-12	LKWSHR, Air Chamber Bracket Mounting	4
16	122508	HUB, Internal Gear	2	63	659764	RING, Slack Adjusting Retaining	2
17	119742	GEAR, Internal Ring	2	64	107010	WASHER, Slack Adjuster Retaining	2
18	114434	NUT, Inner Spindle	2	65	11E-135	RETAINER, Camshaft Grease	2
19	108028	LOCK, Spindle Nut	2	66	11E-135	RETAINER, Camshaft Grease	2
20	114434	NUT, Outer Spindle	2	67	660516	RING, Camshaft Retaining	2
21	108031	O-RING, Planet Carrier	2	68	107736	WASHER, Camshaft Retaining	2
22	—	AXLE PLANET CARRIER ASSY — See Index	—	69	107739	BUSHING, Air Chamber Bracket	2
23	118831	STUD, Wheel Mounting	32	70	10H-25	FITTING, Air Chamber Bracket Grease	2
24	64D-14	NUT, Wheel Mounting	32	71	108476	*ADJUSTER, Brake Slack (B.W. #226655)	2
25	122512	GEAR, Sun	2	72	122947	BRACKET, Air Chamber — R.H.	1
26	108475	WASHER, Sun Gear Thrust	2	72A	122948	†BRACKET, Air Chamber — L.H.	1
27	116923	O-RING, Cap to Carrier	2	73	1C-1236	BOLT, Air Chamber Bracket Mounting	4
28	116937	CAP, Sun Gear Thrust (Inc. 26)	2	74	110206	*AIR CHAMBER ASSY (B.W. #229403) (Inc. 74A thru 74G)	2
29	106762	WASHER, Thrust Cap Mounting	2	74A	944735	†DIAPHRAGM, Air Chamber	2
30	1C-824	BOLT, Thrust Cap Mounting	18	74B	945725	†BOOT, Air Chamber	2
31	224073	RING, Sun Gear Retaining	2	74C	1551657	RETAINER, Boot	2
32	108478	WASHER, Sun Gear Thrust	2	74D	1551385	†SPRING	2
33	119470	PLUG, Planet Filler	2	74E	949135	†PUSH ROD	2
34	1C-1030	BOLT, Planet Carrier	6	74F	3292162	YOKE ASSY	2
35	4E-10	LKWSHR, Planet Carrier	6	74G	8D-10	†NUT, Yoke Lock	2
36	122513	SHAFT, Axle	2	75	4E-10	LKWSHR, Carrier Pull	4
37	1317348	CONE, Outer Hub Bearing	2	76	1C-1012	BOLT, Carrier Puller	4
38	713323	CUP, Outer Hub Bearing	2	77	18D-10	NUT, Carrier to Housing	22
39	120391	HUB ASSY (Inc. 38, 40)	2	78	104412	WASHER, Carrier to Housing	26
40	1311615	CUP, Inner Hub Bearing	2	79	536879	BRACKET, Release Valve	1
41	1311939	CONE, Inner Hub Bearing	2	80	—	AXLE DIFFERENTIAL & CARRIER ASSY — See Index	—
42	120395	SEAL, Hub Oil	2	81	122067	O-RING, Carrier to Housing	1
43	120534	CATCHER, Oil	2	82	123792	STUD, Carrier to Housing	16
44	111656	WASHER, Brake Drum	24	82A	123793	†STUD, Carrier to Housing	6
45	122516	BOLT, Brake Drum	24				
46	122514	CAMSHAFT — R.H.	1				
46A	122515	†CAMSHAFT — L.H.	1				

†Not Illustrated

‡As Required

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of this part.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — FRONT

For Serial: 425B101 & After

TS-11141

AXLE ASSEMBLY — FRONT**For Serial: 425B101 & After**

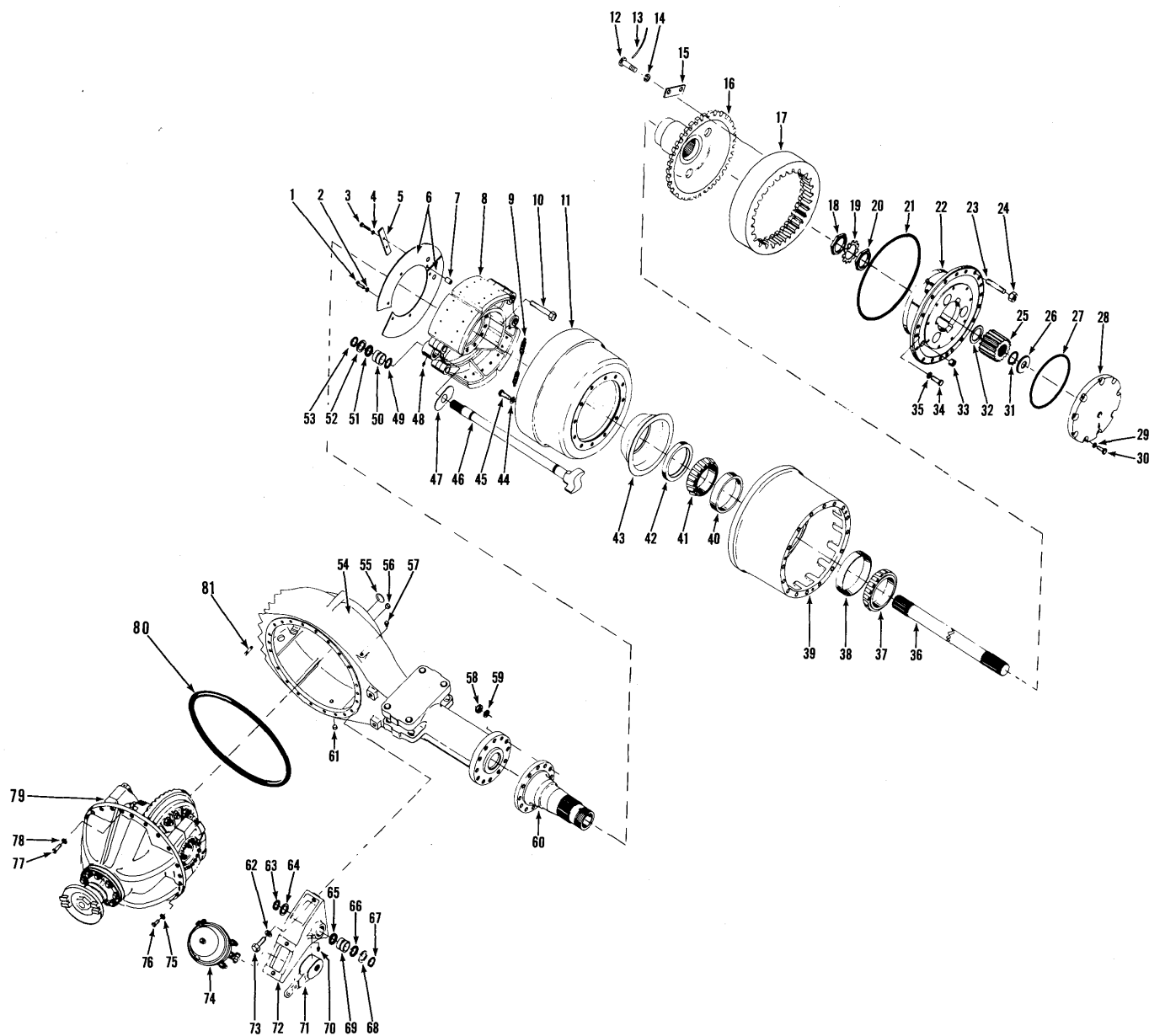
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	191582	AXLE ASSY (Inc. 1 thru 82A) (D-75501)	1	47	107735	WASHER, Camshaft Thrust	2
1	1C-632	BOLT, Dust Cover	4	48	12H-15	FITTING, Brake Spider Grease	2
2	4E-06	LKWSHR, Dust Cover	4	49	25K-60124	O-RING, Camshaft	2
3	1C-636	BOLT, Dust Cover	4	50	107739	BUSHING, Brake Spider	2
4	4E-06	LKWSHR, Dust Cover	4	51	11E-135	RETAINER, Camshaft Grease	2
5	112695	PLATE, Dust Cover Reinforcing	2	52	107736	WASHER, Camshaft Retaining	2
6	118306	COVER, Brake Dust	4	53	660516	RING, Camshaft Retaining	2
7	655673	SPACER, Brake Dust Cover	8	54	122510	HOUSING, Axle	1
8	—	BRAKE ASSY — See Index	—	55	—	OMIT — Not Used This Application	—
9	119650	SPRING, Brake Return	2	56	226858	PLUG, Housing Filler	1
10	107731	BOLT, Brake Attaching	24	57	121214	BREATHER, Axle Housing	1
11	121203	DRUM, Brake	2	58	107732	NUT, Brake Attaching	24
12	4C-820	BOLT, Hub to Gear	24	59	111658	WASHER, Brake Attaching	24
13	—	‡LOCKWIRE — 18 ga.	—	60	122511	SPINDLE	2
14	4E-08	LKWSHR, Hub to Gear	24	61	731221	PLUG, Housing Drain	1
15	122701	PLATE, Hub to Gear Retaining	12	62	4E-12	LKWSHR, Air Chamber Bracket Mounting	4
16	122508	HUB, Internal Gear	2	63	659764	RING, Slack Adjuster Retaining	2
17	119742	GEAR, Internal Ring	2	64	107010	WASHER, Slack Adjuster Retaining	2
18	114434	NUT, Inner Spindle	2	65	11E-135	RETAINER, Camshaft Grease	2
19	108028	LOCK, Spindle Nut	2	66	11E-135	RETAINER, Camshaft Grease	2
20	114434	NUT, Outer Spindle	2	67	660516	RING, Camshaft Retaining	2
21	108031	O-RING, Planet Cover	2	68	107736	WASHER, Camshaft Retaining	2
22	—	AXLE PLANET CARRIER ASSY — See Index	—	69	107739	BUSHING, Air Chamber Bracket	2
23	118831	STUD, Wheel Mounting	32	70	10H-25	FITTING, Air Chamber Bracket Grease	2
24	64D-14	NUT, Wheel Mounting	32	71	108476	*ADJUSTER, Brake Slack (B.W. #226655)	2
25	122512	GEAR, Sun	2	72	122947	BRACKET, Air Chamber — R.H.	1
26	108475	WASHER, Sun Gear Thrust	2	72A	122948	†BRACKET, Air Chamber — L.H.	1
27	116923	O-RING, Cap to Carrier	2	73	1C-1236	BOLT, Air Chamber Bracket Mounting	4
28	116937	CAP, Sun Gear Thrust (Inc. 26)	2	74	110206	*AIR CHAMBER ASSY (B.W. #229403) (Inc. 74A thru 74G)	2
29	106762	WASHER, Thrust Cap Mounting	18	74A	944735	†DIAPHRAGM, Air Chamber	2
30	1C-824	BOLT, Thrust Cap Mounting	18	74B	945725	†BOOT, Air Chamber	2
31	224073	RING, Sun Gear Retaining	2	74C	1551657	†RETAINER, Boot	2
32	108478	WASHER, Sun Gear Thrust	2	74D	1551385	†SPRING	2
33	119470	PLUG, Planet Filler	2	74E	949135	†PUSH ROD	2
34	1C-1030	BOLT, Planet Carrier	6	74F	3292162	†YOKE ASSY	2
35	4E-10	LKWSHR, Planet Carrier	6	74G	8D-10	†NUT, Yoke Lock	2
36	122513	SHAFT, Axle	2	75	4E-10	LKWSHR, Carrier to Housing	4
37	1317348	CONE, Outer Hub Bearing	2	76	1C-1012	BOLT, Carrier to Housing	4
38	713323	CUP, Outer Hub Bearing	2	77	18D-10	NUT, Carrier to Housing	22
39	120391	HUB ASSY (Inc. 38, 40)	2	78	104412	WASHER, Carrier to Housing	26
40	1311615	CUP, Inner Hub Bearing	2	79	536879	BRACKET, Release Valve	1
41	1311939	CONE, Inner Hub Bearing	2	80	—	AXLE DIFFERENTIAL & CARRIER ASSY — See Index	—
42	120395	SEAL, Hub Oil	2	81	122067	O-RING, Carrier to Housing	1
43	120534	CATCHER, Oil	2	82	123792	STUD, Carrier to Housing	16
44	111656	WASHER, Brake Drum	24	82A	123793	†STUD, Carrier to Housing	6
45	122516	BOLT, Brake Drum	24				
46	122514	CAMSHAFT — R.H.	1				
46A	122515	†CAMSHAFT — L.H.	1				

†Not Illustrated

‡As Required

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of this part.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — REAR
For Serial: 425A101 thru 263

TS-11145

AXLE ASSEMBLY — REAR **For Serial: 425A101 thru 263**

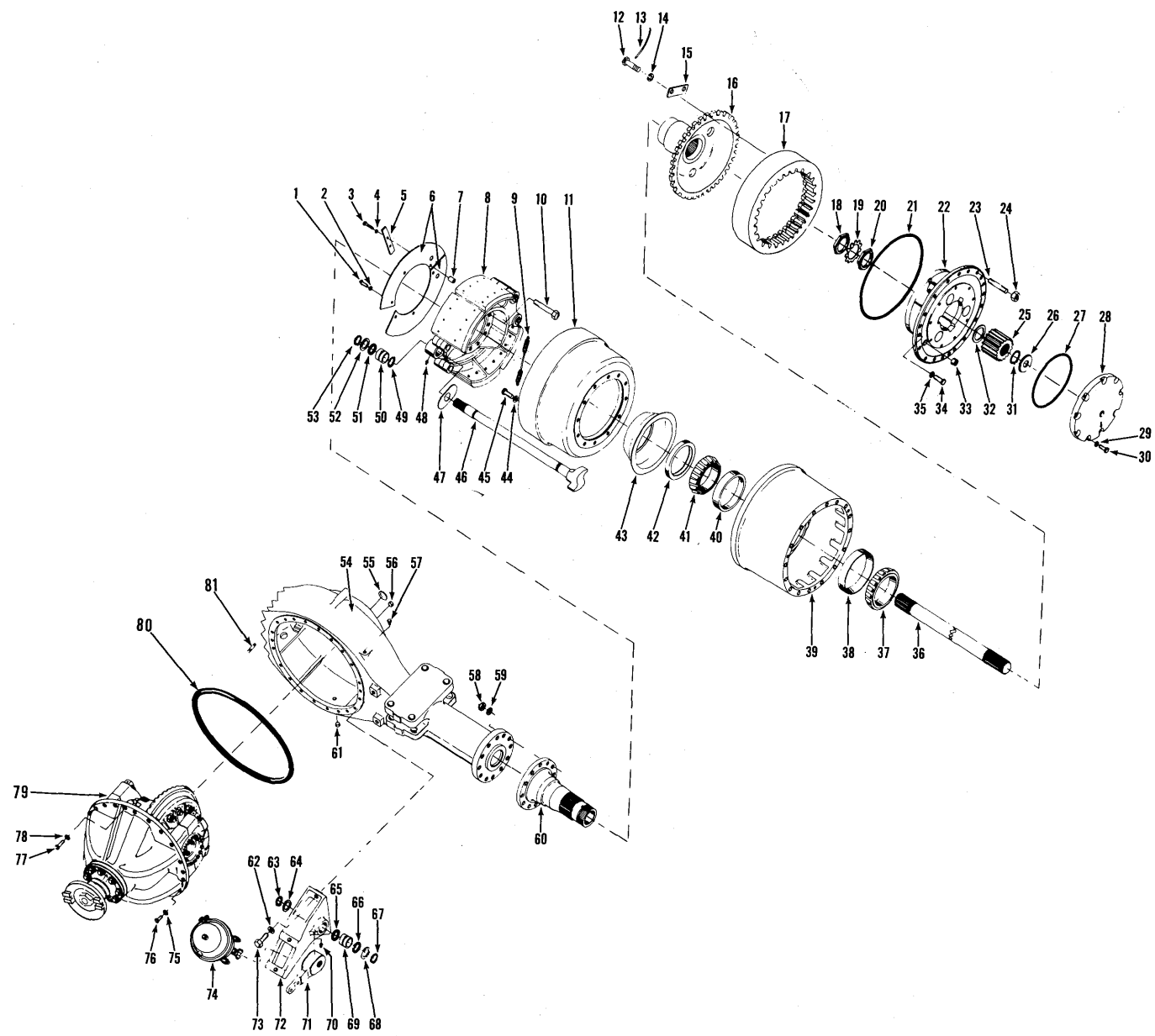
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	191132	AXLE ASSY (Inc. 8 thru 81A) (RD-70501)	1	46A	122515	†CAMSHAFT — R.H.	1
1	1C-632	BOLT, Dust Cover	4	47	107735	WASHER, Camshaft Thrust	2
2	4E-06	LKWSHR, Dust Cover	4	48	12H-15	FITTING, Brake Spider Grease	2
3	1C-636	BOLT, Dust Cover	4	49	25K-60124	O-RING, Camshaft	2
4	4E-06	LKWSHR, Dust Cover	4	50	107739	BUSHING, Brake Spider	2
5	112695	PLATE, Dust Cover Reinforcing	2	51	11E-135	RETAINER, Camshaft Grease	2
6	118306	COVER, Brake Dust	4	52	107736	WASHER, Camshaft Retaining	2
7	655673	SPACER, Dust Cover	8	53	660516	RING, Camshaft Retaining	2
8	—	BRAKE ASSY — See Index	—	54	122510	HOUSING, Axle	1
9	119650	SPRING, Brake Return	2	55	—	OMIT, Not Used This Application	—
10	107731	BOLT, Brake Attaching	24	56	226858	PLUG, Housing Filler	1
11	121203	DRUM, Brake	2	57	121214	BREATHER, Axle Housing	1
12	4C-820	BOLT, Hub to Gear	24	58	107732	NUT, Brake Attaching	24
13	—	‡LOCKWIRE — 18 ga.	—	59	111658	WASHER, Brake Attaching	24
14	4E-08	LKWSHR, Hub to Gear	24	60	122511	SPINDLE	2
15	122701	PLATE, Hub to Gear Retaining	12	61	731221	PLUG, Housing Drain	1
16	122508	HUB, Internal Gear	2	62	4E-12	LKWSHR, Air Chamber Bracket Mounting	4
17	119742	GEAR, Internal Ring	2	63	659764	RING, Slack Adjuster Retaining	2
18	114434	NUT, Inner Spindle	2	64	107010	WASHER, Slack Adjuster Retaining	2
19	108028	LOCK, Spindle Nut	2	65	11E-135	RETAINER, Camshaft Grease	2
20	114434	NUT, Outer Spindle	2	66	11E-135	RETAINER, Camshaft Grease	2
21	108031	O-RING, Planet Carrier	2	67	660516	RING, Camshaft Retaining	2
22	—	AXLE PLANET CARRIER ASSY — See Index	—	68	107736	WASHER, Camshaft Retaining	2
23	118831	STUD, Wheel Mounting	32	69	107739	BUSHING, Air Chamber Bracket	2
24	64D-14	NUT, Wheel Mounting	32	70	10H-25	FITTING, Air Chamber Bracket Grease	2
25	122512	GEAR, Sun	2	71	108476	*ADJUSTER, Brake Slack (B.W. #226655)	2
26	108475	WASHER, Sun Gear Thrust	2	72	122948	BRACKET, Air Chamber — L.H.	1
27	116923	O-RING, Cap to Carrier	2	72A	122947	†BRACKET, Air Chamber — R.H.	1
28	116937	CAP, Sun Gear Thrust (Inc. 26)	2	73	1C-1236	BOLT, Air Chamber Bracket Mounting	4
29	106762	WASHER, Thrust Cap Mounting	18	74	110206	*AIR CHAMBER ASSY (B.W. #229403) (Inc. 74A thru 74G)	2
30	1C-824	BOLT, Thrust Cap Mounting	18	74A	944735	†DIAPHRAGM, Air Chamber	2
31	224073	RING, Sun Gear Retaining	2	74B	945725	†BOOT, Air Chamber	2
32	108478	WASHER, Sun Gear Thrust	2	74C	1551657	†RETAINER, Boot	2
33	119470	PLUG, Planet Filler	2	74D	1551385	†SPRING	2
34	1C-1030	BOLT, Planet Carrier	6	74E	949135	†ROD, Push	2
35	4E-10	LKWSHR, Planet Carrier	6	74F	3292162	†YOKE ASSY	2
36	122513	SHAFT, Axle	2	74G	8D-10	†NUT, Yoke Lock	2
37	1317348	CONE, Outer Hub Bearing	2	75	4E-10	LKWSHR, Carrier to Housing	4
38	713323	CUP, Outer Hub Bearing	2	76	1C-1012	BOLT, Carrier to Housing	4
39	120391	HUB ASSY (Inc. 38, 40)	2	77	18D-10	NUT, Carrier to Housing	22
40	1311615	CUP, Inner Hub Bearing	2	78	104412	WASHER, Carrier to Housing	22
41	1311939	CONE, Inner Hub Bearing	2	79	—	AXLE DIFFERENTIAL & CARRIER ASSY — See Index	—
42	120395	SEAL, Hub Oil	2	80	122067	O-RING, Carrier to Housing	1
43	120534	CATCHER, Oil	2	81	120771	STUD, Carrier to Housing	18
44	111656	WASHER, Brake Drum	24	81A	117336	†STUD, Carrier to Housing	4
45	122516	BOLT, Brake Drum	24				
46	122514	CAMSHAFT — L.H.	1				

†Not Illustrated

‡As Required

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of this part.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE ASSEMBLY — REAR
For Serial: 425A264 & After

TS-11145

[A10-1]

AXLE ASSEMBLY — REAR
For Serial: 425A264 & After

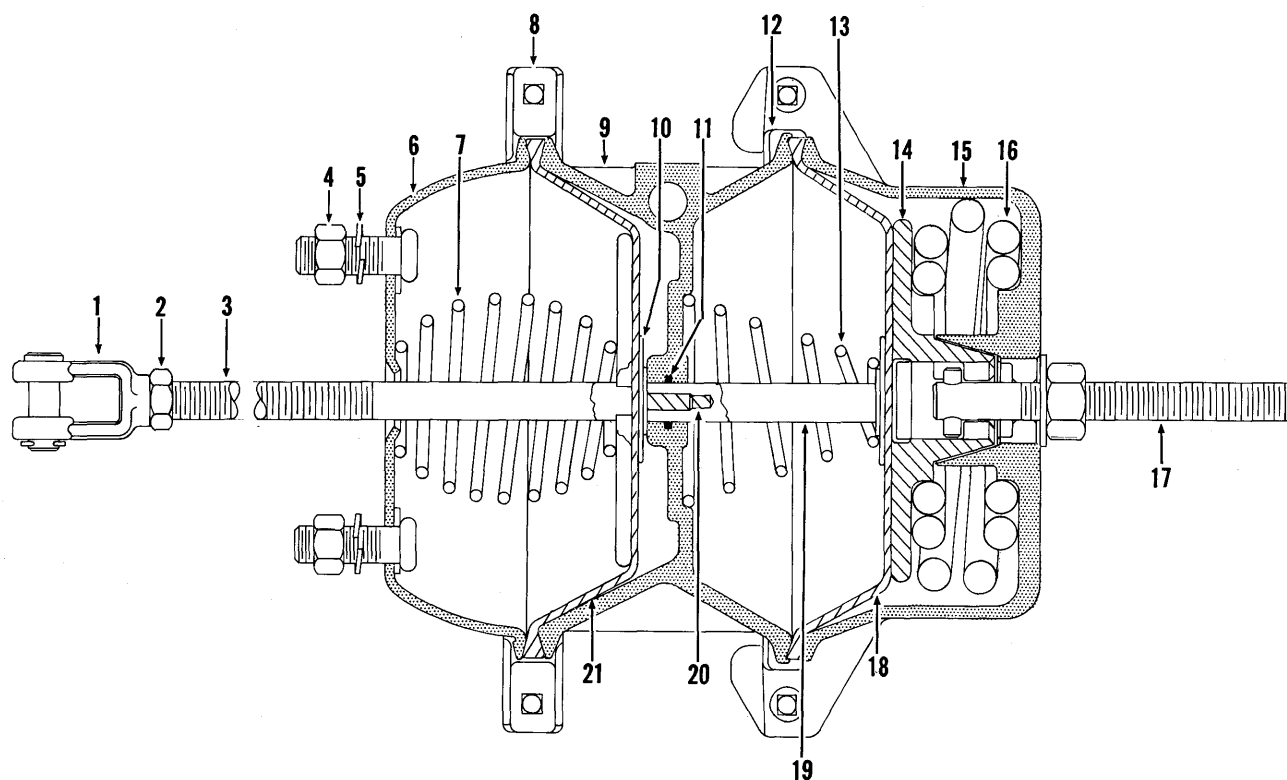
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	191291	AXLE ASSY (Inc. 8 thru 81)	1	44	111656	WASHER, Brake Drum	24
1	1C-632	BOLT, Dust Cover	4	45	122516	BOLT, Brake Drum	24
2	4E-06	LKWSHR, Dust Cover	4	46	122514	CAMSHAFT — L.H.	1
3	1C-636	BOLT, Dust Cover	4	46A	122515	†CAMSHAFT — R.H.	1
4	4E-06	LKWSHR, Dust Cover	4	47	107735	WASHER, Camshaft Thrust	2
5	112695	PLATE, Dust Cover Reinforcing	2	48	12H-15	FITTING, Brake Spider Grease	2
6	118306	COVER, Brake Dust	4	49	25K-60124	O-RING, Camshaft	2
7	655673	SPACER, Dust Cover	8	50	107739	BUSHING, Brake Spider	2
8	—	AXLE BRAKE ASSY — See Index	—	51	11E-135	RETAINER, Camshaft Grease	2
9	119650	SPRING, Brake Return	2	52	107736	WASHER, Camshaft Retaining	2
10	107731	BOLT, Brake Attaching	24	53	660516	RING, Camshaft Retaining	2
11	121203	DRUM, Brake	2	54	122510	HOUSING, Axle	1
12	4C-820	BOLT, Hub to Gear	24	55	—	OMIT — Not Used This Application	—
13	—	‡LOCKWIRE — 18 ga.	—	56	226858	PLUG, Housing Filler	1
14	4E-08	LKWSHR, Hub to Gear	24	57	121214	BREATHER, Axle Housing	1
15	122701	PLATE, Hub to Gear Retaining	12	58	107732	NUT, Brake Attaching	24
16	122508	HUB, Internal Gear	2	59	111658	WASHER, Brake Attaching	24
17	119742	GEAR, Internal Ring	2	60	122511	SPINDLE	2
18	114434	NUT, Inner Spindle	2	61	731221	PLUG, Housing Drain	1
19	108028	LOCK, Spindle Nut	2	62	4E-12	LKWSHR, Air Chamber Bracket Mounting	4
20	114434	NUT, Outer Spindle	2	63	659764	RING, Slack Adjuster Retaining	2
21	108031	O-RING, Planet Carrier	2	64	107010	WASHER, Slack Adjuster Retaining	2
22	—	AXLE PLANET CARRIER ASSY — See Index	—	65	11E-135	RETAINER, Camshaft Grease	2
23	118831	STUD, Wheel Mounting	32	66	11E-135	RETAINER, Camshaft Grease	2
24	64D-14	NUT, Wheel Mounting	32	67	660516	RING, Camshaft Retaining	2
25	122512	GEAR, Sun	2	68	107736	WASHER, Camshaft Retaining	2
26	108475	WASHER, Sun Gear Thrust	2	69	107739	BUSHING, Air Chamber Bracket	2
27	116923	✓ O-RING, Cap to Carrier	2	70	10H-25	FITTING, Air Chamber Bracket Grease	2
28	116937	CAP, Sun Gear Thrust (Inc. 26)	2	71	108476	*ADJUSTER, Brake Slack (B.W. #226655)	2
29	106762	WASHER, Thrust Cap Mounting	18	72	122948	BRACKET, Air Chamber — L.H.	1
30	1C-824	BOLT, Thrust Cap Mounting	18	72A	122947	†BRACKET, Air Chamber — R.H.	1
31	224073	RING, Sun Gear Retaining	2	73	1C-1236	BOLT, Air Chamber Bracket Mounting	4
32	108478	WASHER, Sun Gear Thrust	2	74	—	AIR CHAMBER ASSY — See Index	—
33	119470	PLUG, Planet Filler	2	75	4E-10	LKWSHR, Carrier Puller	4
34	1C-1030	BOLT, Planet Carrier	6	76	1C-1012	BOLT, Carrier Puller	4
35	4E-10	LKWSHR, Planet Carrier	6	77	18D-10	NUT, Carrier to Housing	22
36	122513	SHAFT, Axle	2	78	104412	WASHER, Carrier to Housing	22
37	1317348	CONE, Outer Hub Bearing	2	79	—	AXLE DIFFERENTIAL & CARRIER ASSY — See Index	—
38	713323	CUP, Outer Hub Bearing	2	80	122067	O-RING, Carrier to Housing	1
39	120391	HUB ASSY (Inc. 38, 40)	2	81	123792	STUD, Carrier to Housing	18
40	1311615	CUP, Inner Hub Bearing	2	81A	123793	STUD, Carrier to Housing	4
41	1311939	CONE, Inner Hub Bearing	2				
42	120395	SEAL, Hub Oil	2				
43	120534	CATCHER, Oil	2				

†Not Illustrated

‡As Required

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of this part.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

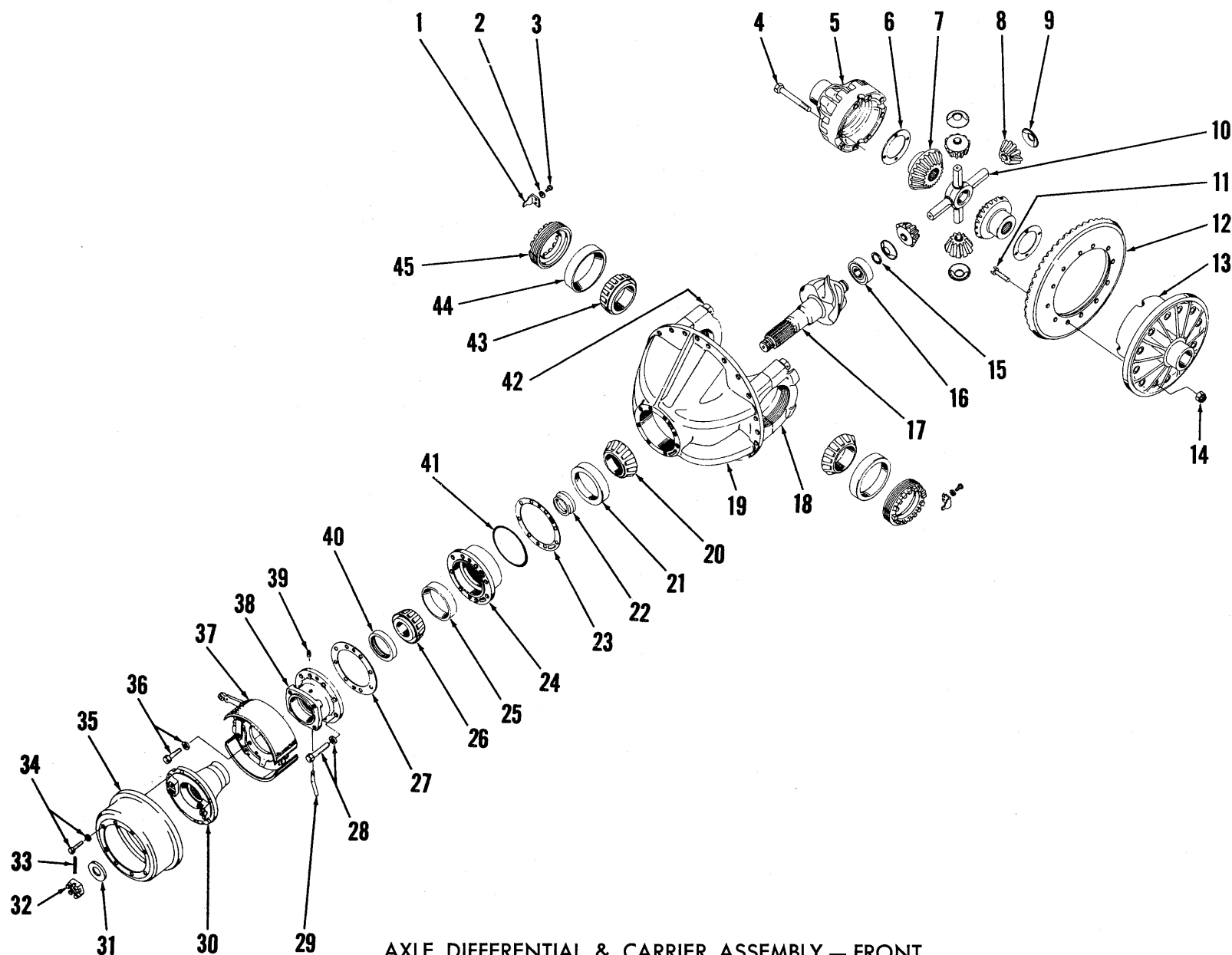


TS-11479B

AXLE BRAKE AIR CHAMBER — REAR**For Serial: 425B101 & After**

Item No.	Part No.	Description	No. Req'd.
A	123156	BRAKE, Air Chamber	1
1	949446	CLEVIS ASSY	1
2	8D-10	NUT, Jam	1
3	949447	PUSH ROD ASSY	1
4	62D-10	NUT, Mounting	2
5	23E-10	LKWSHR, Mounting	2
6	949448	HOUSING ASSY	1
7	949449	SPRING, Return	1
8	949450	CLAMP ASSY, Adapter to Housing	1
9	947372	ADAPTER	1
10	947363	PLATE, Diaphragm Back-Up	2
11	25K-30020	O-RING, Push Rod	1
12	949450	CLAMP ASSY, Adapter to Chamber	1
13	947368	SPRING, Return	1
14	949451	PLATE, Pressure	1
15	949452	CHAMBER, Air	1
16	949453	SPRING, Compression	1
17	947374	RELEASE STUD ASSY	1
18	944735	DIAPHRAGM	1
19	947373	PUSHROD, Adapter	1
20	947370	SCREW, Nylok	2
21	944735	DIAPHRAGM	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT
For Serial: 425A101 thru 263

TS-3774

AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT

For Serial: 425A101 thru 263

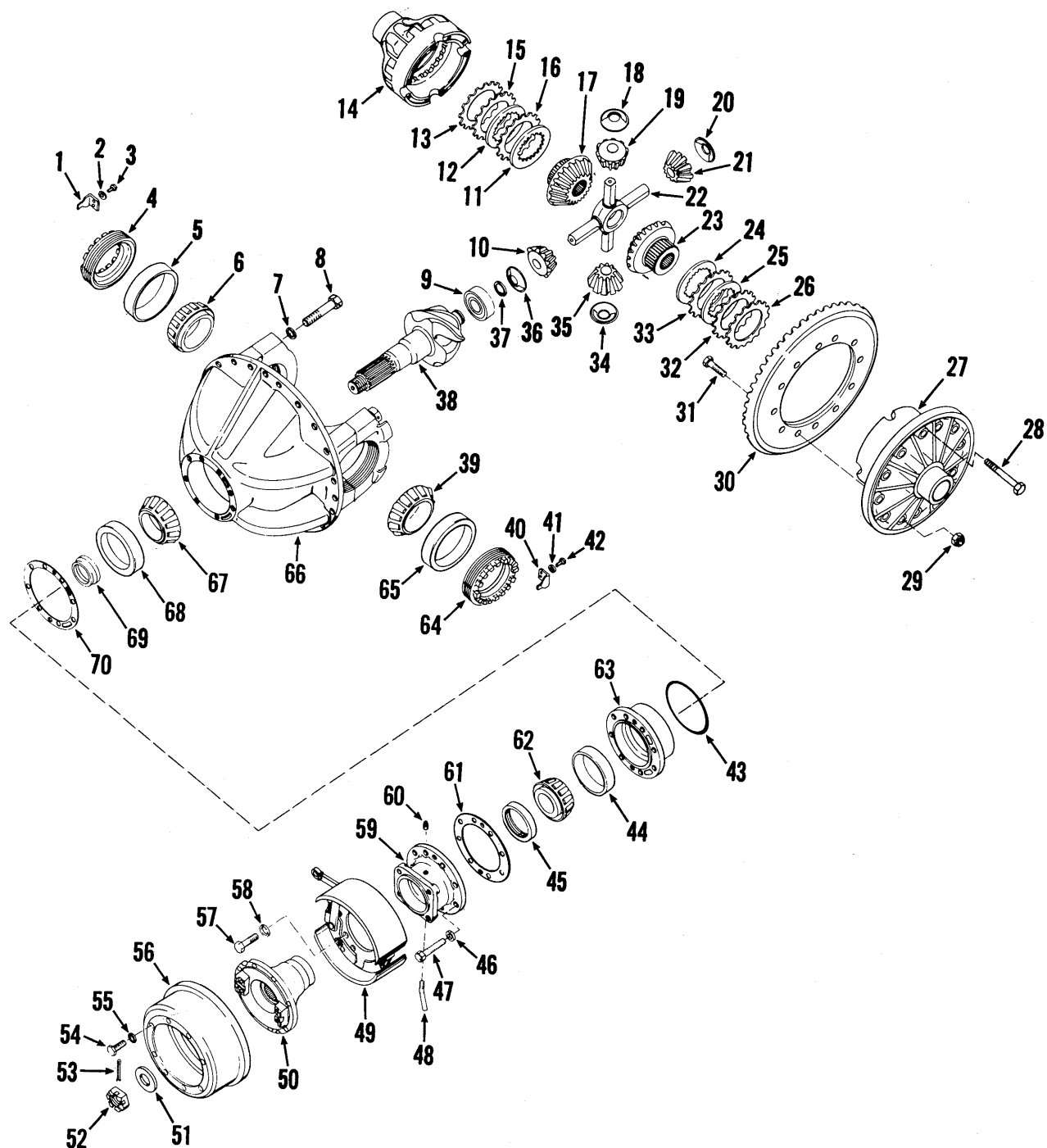
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	122675	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 45)	1	26	710034	CONE, Outer Pinion Bearing	1
1	107901	LOCK, Differential Adjusting Nut	2	27	107971	GASKET, Oil Seal Retainer	1
2	4E-07	LKWSHR, Adjusting Nut Lock	2	28	1C-1036	BOLT, Oil Seal Retainer	8
3	3C-716	BOLT, Adjusting Nut Lock	2	28A	4E-10	LKWSHR, Oil Seal Retainer	8
4	107892	BOLT, Differential Case	8	29	107912	TUBE, Oil Drain	1
5	-----	§DIFFERENTIAL CASE, Plain Half (See 49)	1	30	123909	FLANGE, Companion	1
6	116426	WASHER, Side Gear Thrust	2	31	107978	WASHER, Pinion Shaft Nut	1
7	107958	GEAR, Differential Side	2	32	107977	NUT, Pinion Shaft	1
8	815748	PINION, Differential	1	33	1F-748	COTTER, Pinion Shaft	1
9	116422	WASHER, Differential Pinion Thrust	4	34	2C-720	BOLT, Brake Drum Attaching	8
10	123934	SPIDER, Differential	1	34A	4E-07	LKWSHR, Brake Drum Attaching	8
11	24C-940	BOLT, Ring Gear	12	35	107914	DRUM, Brake	1
12	-----	§RING GEAR (See 48)	1	36	1C-1024	BOLT, Brake Attaching	4
13	-----	§DIFFERENTIAL CASE, Flange Half (See 49)	1	36A	4E-10	LKWSHR, Brake Attaching	4
14	104168	NUT, Ring Gear Bolt	12	37	-----	BRAKE ASSY, Parking — See Index	1
15	224052	RING, Center Pinion Bearing Retainer	1	38	108454	RETAINER, Pinion Oil Seal	1
16	731995	BEARING, Inner Pinion	1	39	10F-04	PLUG, Oil Seal Retainer	1
17	-----	§PINION (See 48)	1	40	111368	SEAL, Pinion Oil	1
18	-----	§CAP, Differential Carrier (See 19)	2	41	25K-40700	O-RING, Pinion Bearing Cage	1
19	120769	CARRIER ASSY, Differential (Inc. 18, 42, 42A)	1	42	107965	BOLT, Carrier Cap	4
20	710987	CONE, Center Pinion Bearing	1	42A	111657	†WASHER, Carrier Cap Bolt	4
21	710986	CUP, Center Pinion Bearing	1	42B	-----	†‡LOCKWIRE, 18 Ga.	—
22	815352	SPACER KIT, Pinion Bearing	1	43	731981	CONE, Differential Bearing	2
23	107973	‡SHIM, Pinion Bearing Cage — .004" ..	—	44	672004	CUP, Differential Bearing	2
23A	107974	‡SHIM, Pinion Bearing Cage — .007" ..	—	45	107969	NUT, Differential Adjusting	2
23B	107975	‡SHIM, Pinion Bearing Cage — .010" ..	—	46	122676	†DIFFERENTIAL ASSY (Inc. 4 thru 14, 17)	1
24	108451	CAGE ASSY, Pinion Bearing (Inc. 21, 25)	1	47	116523	†DIFFERENTIAL BODY SUB ASSY (Inc. 4 thru 10, 13)	1
25	710035	CUP, Outer Pinion Bearing	1	48	122497	†GEAR & PINION SET (Inc. 12, 17)	1
				49	815648	†DIFFERENTIAL CASE KIT (Inc. 4 thru 6, 9, 13)	1

§Not Sold Separately

‡As Required

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT — "LIMITED-SLIP"
For Serial: 425A264 thru 999

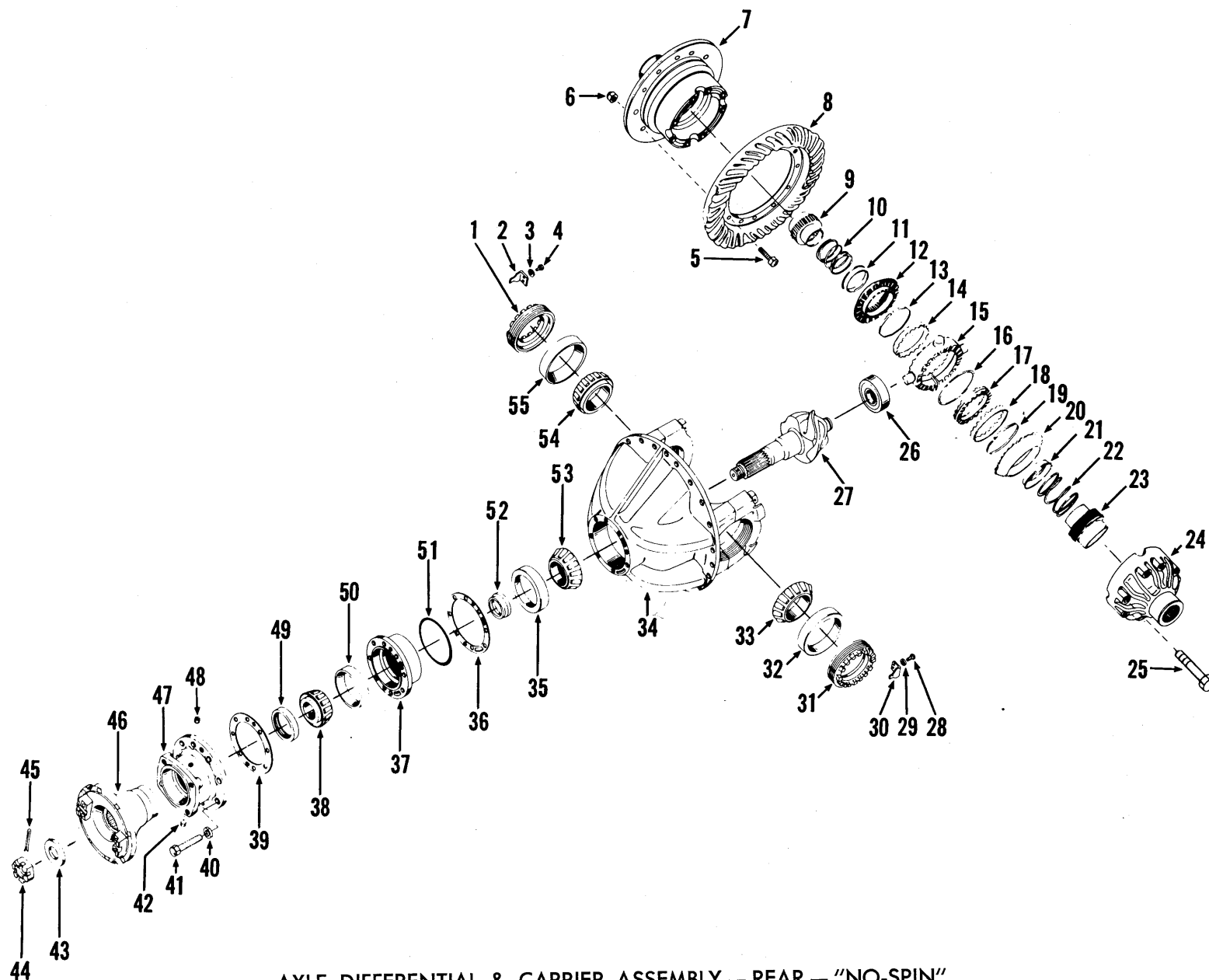
TS-11204

AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT — "LIMITED-SLIP"
For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	123641	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 76)	1	44	108451	CAGE ASSY, Pinion Bearing (Inc. 45, 73)	1
1	107901	LOCK, Differential Adjusting Nut	1	45	710035	CUP, Outer Pinion Bearing	1
2	4E-07	LKWSHR, Adjusting Nut Lock	1	46	710034	CONE, Outer Pinion Bearing	1
3	1C-716	BOLT, Adjusting Nut Lock	1	47	111368	SEAL, Pinion Oil	1
4	122076	NUT, Differential Adjusting	1	48	107971	GASKET, Oil Seal Retainer	1
5	672004	CUP, Differential Bearing	1	49	4E-10	LKWSHR, Oil Seal Retainer	8
6	731981	CONE, Differential Bearing	1	50	1C-1036	BOLT, Oil Seal Retainer	8
7	3E-16	LKWSHR, Carrier Cap Bolt	4	51	4E-08	LKWSHR, Puller Bolt	2
8	123838	BOLT, Carrier Cap	4	52	1C-818	BOLT, Bearing Cup Cage Puller	2
9	731995	BEARING, Inner Pinion	1	53	123668	SLEEVE, Wear	1
10	815748	PINION DIFFERENTIAL (Inc. 19, 21, 35)	1	54	229769	NUT, Brake Disc Mounting	8
11	122069	DISC, Inner Clutch	1	55	112278	WASHER, Brake Disc Mounting	8
12	122069	DISC, Inner Clutch	1	56	123654	FLANGE, Universal Joint	1
13	122068	DISC, Outer Clutch	1	57	123655	DISC, Parking Brake	1
14	—	§DIFFERENTIAL CASE, Plain Half — See 80	1	58	112278	WASHER, Brake Disc Mounting	8
15	122068	DISC, Outer Clutch	1	59	18C-728	BOLT, Brake Disc Mounting	8
16	122068	DISC, Outer Clutch	1	60	107977	NUT, Pinion Shaft	1
17	122065	GEAR, Differential Side	1	61	107978	WASHER, Pinion Shaft Nut	1
18	123381	WASHER, Differential Pinion Thrust	1	62	1F-748	COTTER, Pinion Shaft Nut	1
19	—	§PINION DIFFERENTIAL (See 10)	1	63	17C-1032	BOLT, Brake Mounting Bracket	6
20	123381	WASHER, Differential Pinion Thrust	1	63A	104412	WASHER, Brake Mounting Bracket	6
21	—	§PINION DIFFERENTIAL (See 10)	1	64	18C-1072	BOLT, Brake Mounting	2
22	123934	SPIDER, Differential	1	65	124111	BRACKET, Cable Return	1
23	122065	GEAR, Differential Side	1	66	123656	BRAKE ASSY, Disc (Inc. 66A, 66B)	1
24	122069	DISC, Inner Clutch	1	66A	949443	†PAD & LINING	2
25	122069	DISC, Inner Clutch	1	66B	949444	†SPRING	2
26	122068	DISC, Outer Clutch	1	66C	949445	†CAM, Brake Actuating	1
27	—	§DIFFERENTIAL CASE, Flanged Half — See 80	1	67	18D-10	NUT, Brake Mounting	2
28	124233	BOLT, Differential Case	8	67A	104412	WASHER, Brake Mounting	2
28A	123500	†WASHER, Differential Case	8	68	123824	BRACKET, Brake Mounting	1
29	104168	NUT, Ring Gear Bolt	12	69	123642	RETAINER, Pinion Oil Seal & Bearing	1
30	—	§RING GEAR — See 79	1	70	122076	NUT, Differential Adjusting	1
31	18C-940	BOLT, Ring Gear	12	71	672004	CUP, Differential Bearing	1
32	122068	DISC, Outer Clutch	1	72	710987	BEARING, Center Pinion	1
33	122068	DISC, Outer Clutch	1	73	710986	CUP, Center Pinion Bearing	1
34	123381	WASHER, Differential Pinion Thrust	1	74	815352	SPACER KIT, Pinion Bearing	1
35	—	§PINION DIFFERENTIAL (See 10)	1	75	107973	‡SHIM, Pinion Bearing Cage — .004"	—
36	123381	WASHER, Differential Pinion Thrust	1	75A	107974	‡SHIM, Pinion Bearing Cage — .007"	—
37	224052	RING, Inner Pinion Bearing Retainer	1	75B	107975	‡SHIM, Pinion Bearing Cage — .010"	—
38	—	§DRIVE PINION — See 79	1	76	122070	CARRIER ASSY, Differential (Inc. 7, 8)	1
39	731981	CONE, Differential Bearing	1	77	122495	†DIFFERENTIAL ASSY (Inc. 10 thru 36, 38)	1
40	107901	LOCK, Differential Adjusting Nut	1	78	122058	†DIFFERENTIAL BODY SUB ASSY (Inc. 10 thru 26, 27, 28, 32 thru 36)	1
41	4E-07	LKWSHR, Adjusting Nut Lock	1	79	122497	†GEAR & PINION SET (Inc. 30, 38)	1
42	1C-716	BOLT, Adjusting Nut Lock	1	80	122059	†DIFFERENTIAL CASE KIT (Inc. 14, 27, 28, 28A)	1
43	25K-40700	O-RING, Pinion Bearing Cage	1				

†Not Illustrated
§Not Sold Separately
‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE DIFFERENTIAL & CARRIER ASSEMBLY — REAR — "NO-SPIN"
For Serial: 425A101 thru 263

TS-6581

AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT — "LIMITED-SLIP"

For Serial: 425A264 thru 999

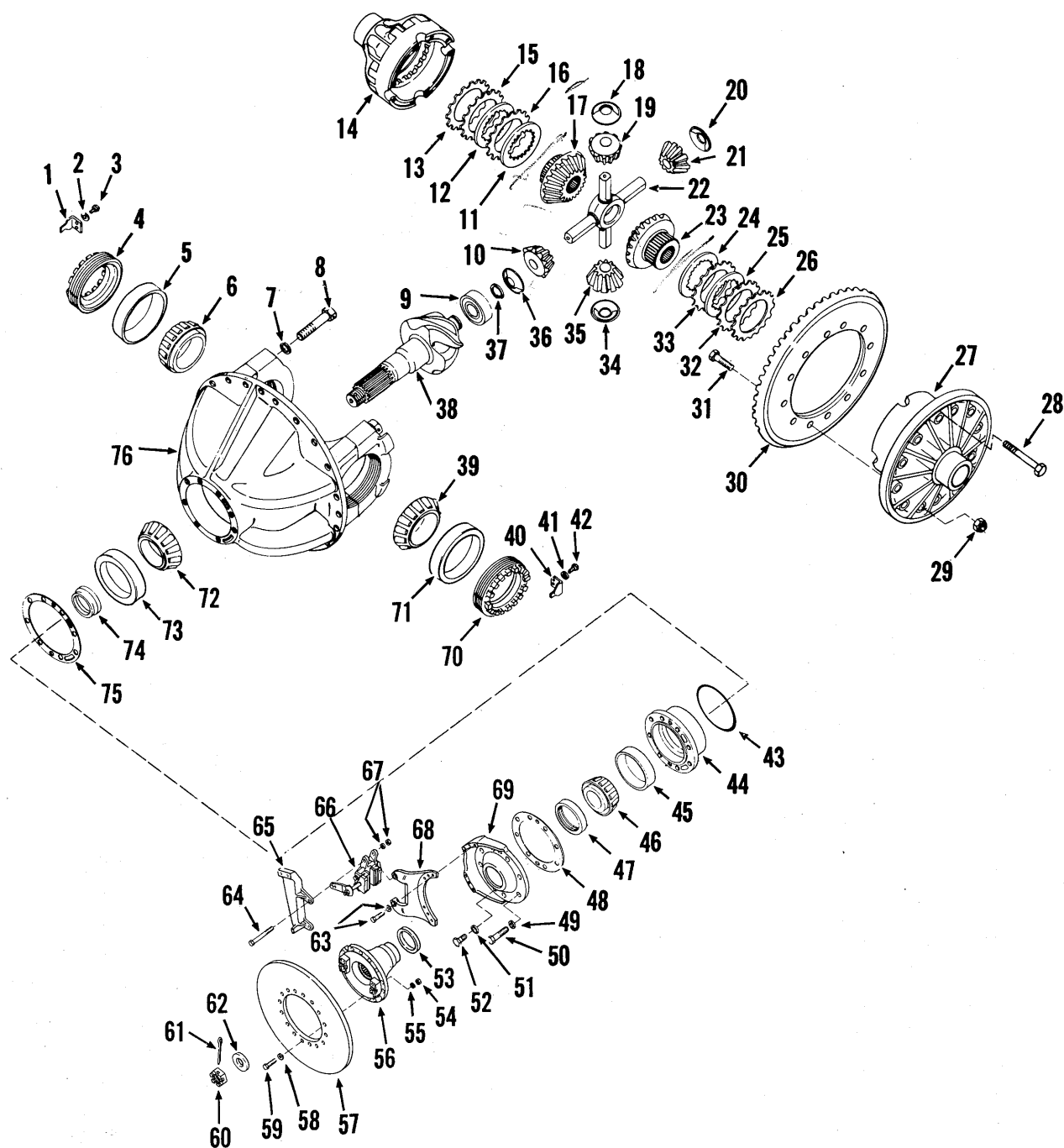
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	122493	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 70)	1	38	-----	\$PINION — See 73	1
1	107901	LOCK, Differential Adjusting Nut	1	39	731981	CONE, Differential Bearing	1
2	4E-07	LKWSHR, Adjusting Nut Lock	1	40	107901	LOCK, Differential Adjusting Nut	1
3	1C-716	BOLT, Adjusting Nut Lock	1	41	4E-07	LKWSHR, Adjusting Nut Lock	1
4	122076	NUT, Differential Adjusting	1	42	1C-716	BOLT, Adjusting Nut Lock	1
5	672004	CUP, Differential Bearing	1	43	25K-40700	O-RING, Pinion Bearing Cage	1
6	731981	CONE, Differential Bearing	1	44	710035	CUP, Outer Pinion Bearing	1
7	3E-16	LKWSHR, Carrier Cap Bolt	4	45	111368	SEAL, Pinion Oil	1
8	123833	BOLT, Carrier Cap	4	46	4E-10	LKWSHR, Seal Retainer	8
9	731995	BEARING, Inner Pinion	1	47	1C-1036	BOLT, Seal Retainer	8
10	815748	PINION, Differential (Inc. 19, 21, 35) ..	1	48	107912	TUBE, Oil Drain	1
11	122069	DISC, Inner Clutch	1	49	-----	BRAKE ASSY — Parking — See Index ..	1
12	122069	DISC, Inner Clutch	1	50	123909	FLANGE, Companion	1
13	122068	DISC, Outer Clutch	1	51	107978	WASHER, Pinion Shaft Nut	1
14	-----	\$DIFFERENTIAL CASE, Plain Half — See 74	1	52	107977	NUT, Pinion Shaft	1
15	122068	DISC, Outer Clutch	1	53	1F-748	COTTER, Pinion Shaft	1
16	122068	DISC, Outer Clutch	1	54	2C-720	BOLT, Brake Drum	8
17	122065	GEAR, Differential Side	1	55	4E-07	LKWSHR, Brake Drum	8
18	123381	WASHER, Differential Pinion Thrust	1	56	107914	DRUM, Brake	1
19	-----	\$PINION, Differential — See 10	1	57	1C-1024	BOLT, Brake Attaching	4
20	123381	WASHER, Differential Pinion Thrust	1	58	4E-10	LKWSHR, Brake Attaching	4
21	-----	\$PINION, Differential — See 10	1	59	108454	RETAINER, Pinion Oil Seal	1
22	123934	SPIDER, Differential	1	60	11F-04	PLUG, Oil Hole	1
23	122065	GEAR, Differential Side	1	61	107971	GASKET, Oil Seal Retainer	1
24	122069	DISC, Inner Clutch	1	62	710034	CONE, Outer Pinion Bearing	1
25	122069	DISC, Inner Clutch	1	63	108451	CAGE ASSY, Pinion Bearing (Inc. 44, 68)	1
26	122068	DISC, Outer Clutch	1	64	122076	NUT, Differential Adjusting	1
27	-----	\$DIFFERENTIAL CASE, Flanged Half — See 74	1	65	672004	CUP, Differential Bearing	1
28	124233	BOLT, Differential Case	8	66	122070	CARRIER ASSY, Differential (Inc. 7, 8)	1
28A	123500	†WASHER, Differential Case	8	67	710987	CONE, Center Pinion Bearing	1
29	104168	NUT, Ring Gear	12	68	710986	CUP, Center Pinion Bearing	1
30	-----	\$RING, Gear — See 73	1	69	815352	SPACER KIT, Pinion Bearing	1
31	18C-940	BOLT, Ring Gear	1	70	107973	‡SHIM, Pinion Bearing Cage — .004" ..	—
32	122068	DISC, Outer Clutch	1	70A	107974	‡SHIM, Pinion Bearing Cage — .007" ..	—
33	122068	DISC, Outer Clutch	1	70B	107975	‡SHIM, Pinion Bearing Cage — .010" ..	—
34	123381	WASHER, Differential Pinion Thrust	1	71	122495	DIFFERENTIAL ASSY (Inc. 10 thru 38) ..	1
35	-----	\$PINION, Differential — See 10	1	72	122058	DIFFERENTIAL BODY SUB-ASSY (Inc. 10 thru 28, 32 thru 37)	1
36	123381	WASHER, Differential Pinion Thrust	1	73	122497	GEAR & PINION KIT (Inc. 30, 38)	1
37	224052	RING, Pinion Bearing Retaining	1	74	122059	DIFFERENTIAL CASE KIT (Inc. 14, 27, 28, 28A)	1

\$Not Sold Separately

†Not Illustrated

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE DIFFERENTIAL & CARRIER ASSEMBLY — FRONT — "LIMITED-SLIP"
For Serial: 425B101 & After

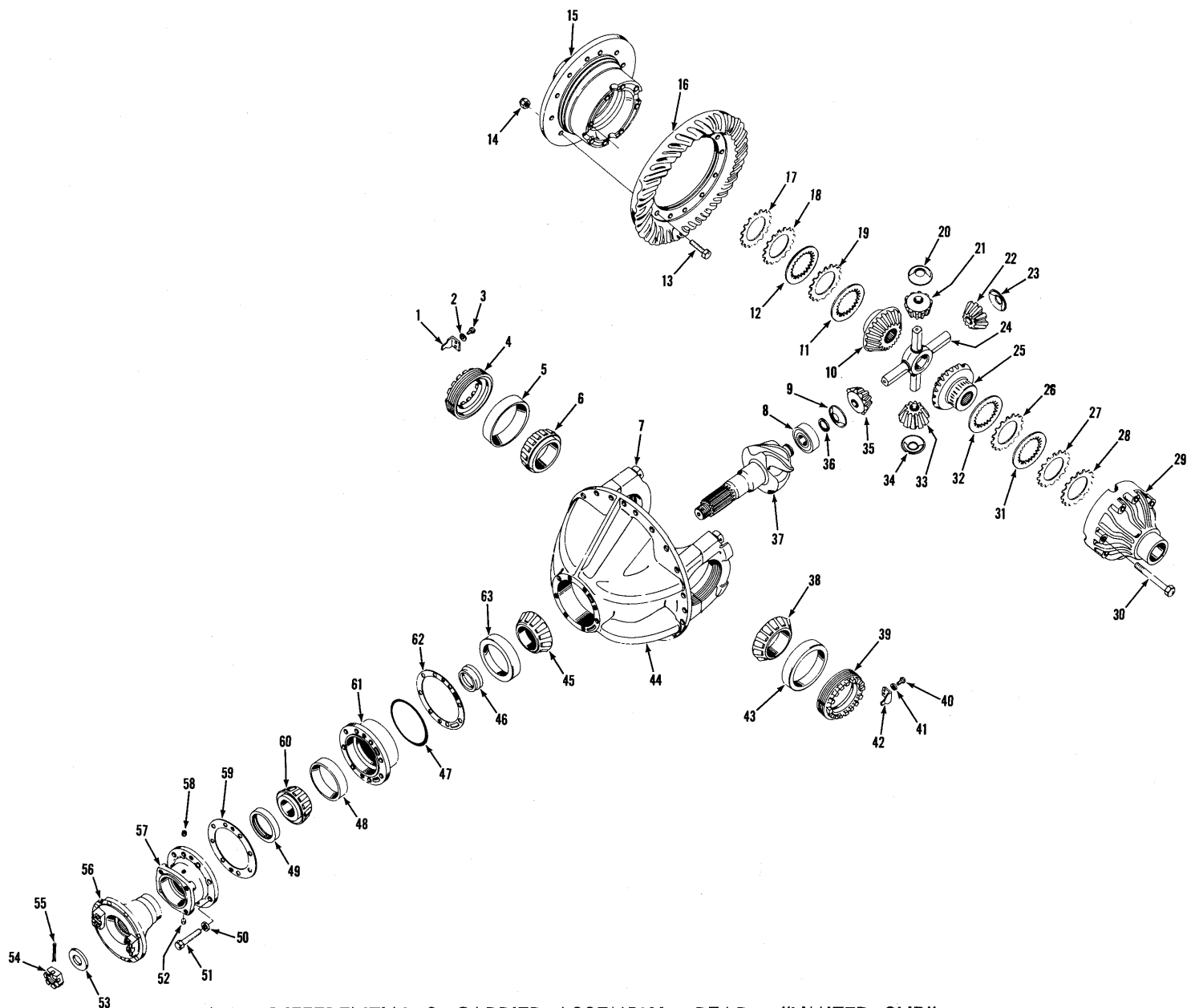
TS-11483

AXLE DIFFERENTIAL & CARRIER ASSEMBLY — REAR — "NO-SPIN"**For Serial: 425A101 thru 263**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	122677	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 55)	1	31	107969	NUT, Differential Bearing Adjusting	1
B	108492	NO-SPIN (Inc. 9 thru 23)	1	32	672004	CUP, Differential Bearing	1
1	107969	NUT, Differential Bearing Adjusting	1	33	731981	CONE, Differential Bearing	1
2	107901	LOCK, Differential Bearing Adjusting Nut	1	34	120769	CARRIER ASSY, Differential (Inc. 34A, 34B, 34C)	1
3	4E-07	LKWSHR, Adjusting Nut Lock	1	34A	-----	†§CAP, Differential Carrier (See Item 34)	—
4	1C-716	BOLT, Adjusting Nut Lock	1	34B	107965	†BOLT, Differential Carrier Cap	4
5	18C-940	BOLT, Ring Gear Attaching	12	34C	111657	†WASHER, Differential Carrier Cap	4
6	104168	NUT, Ring Gear Attaching	12	35	710986	CUP, Center Pinion Bearing	1
7	-----	§DIFFERENTIAL CASE, Flange Half (See Item 59)	—	36	107973	‡SHIM, Pinion Bearing Cage (.004)	—
8	-----	§RING GEAR (See Item 58)	—	36A	107974	‡SHIM, Pinion Bearing Cage (.007)	—
9	947174	GEAR, Side	1	36B	107975	‡SHIM, Pinion Bearing Cage (.010)	—
10	944106	SPRING	1	37	108451	CAGE ASSY, Pinion Bearing (Inc. 35, 50)	1
11	944107	RETAINER, Spring	1	38	710034	CONE, Outer Pinion Bearing	1
12	944105	CAM & CLUTCH	1	39	107971	GASKET, Oil Seal Retainer	1
13	944110	SPRING, Friction	1	40	4E-10	LKWSHR, Seal Retainer	8
14	944109	RING, Holdout	1	41	1C-1036	BOLT, Seal Retainer	8
15	946136	SPIDER (Inc. 17)	1	42	11F-04	PLUG, Oil Seal Retainer	1
16	944104	RING, Snap	1	43	107978	WASHER, Pinion Shaft Nut	1
17	-----	§CENTER, Cam — See 15	1	44	107977	NUT, Pinion Shaft	1
18	944109	RING, Holdout	1	45	1F-748	COTTER, Pinion Shaft	1
19	944110	SPRING, Friction	1	46	108455	FLANGE, Companion	1
20	944105	CAM & CLUTCH	1	47	108454	RETAINER, Pinion Oil Seal	1
21	944107	RETAINER, Spring	1	48	11F-04	PLUG, Oil Seal Retainer	1
22	944106	SPRING	1	49	111368	SEAL, Pinion Oil	1
23	944108	GEAR, Side	1	50	710035	CUP, Outer Pinion Bearing	1
24	-----	§DIFFERENTIAL CASE, Plain Half (See Item 59)	—	51	25K-40700	O-RING, Pinion Bearing Cage	1
25	107892	BOLT, Differential Case	8	52	815352	SPACER KIT, Pinion Bearing	1
26	731995	BEARING, Inner Pinion	1	53	710987	CONE, Center Pinion Bearing	1
26A	224052	†RING, Pinion Bearing Retainer	1	54	731981	CONE, Differential Bearing	1
27	-----	§PINION (See Item 58)	—	55	672004	CUP, Differential Bearing	1
28	1C-716	BOLT, Adjusting Nut Lock	1	56	122678	†DIFFERENTIAL ASSY (Inc. 5 thru 25, 27)	1
29	4E-07	LKWSHR, Adjusting Nut Lock	1	57	112417	†DIFFERENTIAL BODY SUB ASSY (Inc. 7, 9 thru 25)	1
30	107901	LOCK, Differential Bearing Adjusting Nut	1	58	122498	†GEAR & PINION SET (Inc. 8, 27)	1
				59	815773	†DIFFERENTIAL CASE KIT (Inc. 7, 24, 25)	1

†Not Illustrated
 §Not Sold Separately
 ‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



AXLE DIFFERENTIAL & CARRIER ASSEMBLY — REAR — "LIMITED SLIP"
For Serial: 425A264 & After

TS-10911

AXLE DIFFERENTIAL & CARRIER ASSEMBLY — REAR — "LIMITED SLIP"**For Serial: 425A264 & After**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	122494	DIFFERENTIAL & CARRIER ASSY (Inc. 1 thru 63)	1	35	-----	PINION, Differential — See 21	—
1	107901	LOCK, Differential Adjusting Nut	1	36	224052	RING, Inner Pinion Bearing Retaining	1
2	4E-07	LKWSHR, Adjusting Nut Lock	1	37	-----	§PINION — See 66	1
3	1C-716	BOLT, Adjusting Nut Lock	1	38	731981	CONE, Differential Bearing	1
4	122076	NUT, Differential Adjusting	1	39	122076	NUT, Differential Adjusting	1
5	672004	CUP, Differential Bearing	1	40	1C-716	BOLT, Adjusting Nut Lock	1
6	731981	CONE, Differential Bearing	1	41	4E-07	LKWSHR, Adjusting Nut Lock	1
7	107965	BOLT, Carrier Cap	4	42	107901	LOCK, Differential Adjusting Nut	1
7A	111657	†WASHER, Carrier Cap	4	43	672004	CUP, Differential Bearing	1
8	731995	BEARING, Inner Pinion	1	44	122070	HOUSING, Diff. Carrier (Inc. 7, 7A)	1
9	123381	WASHER, Differential Pinion Thrust	1	45	710987	CONE, Center Pinion Bearing	1
10	122065	GEAR, Differential Side	1	46	815352	SPACER KIT, Pinion Bearing	1
11	122069	DISC, Inner Clutch	1	47	25K-40700	O-RING, Pinion Bearing Cage	1
12	122069	DISC, Inner Clutch	1	48	710035	CUP, Outer Pinion Bearing	1
13	18C-940	BOLT, Ring Gear	12	49	111368	SEAL, Pinion Oil	1
14	104168	NUT, Ring Gear	12	50	4E-10	LKWSHR, Oil Seal Retainer	8
15	-----	§DIFF. CASE, Flange Half — See 67	1	51	1C-1036	BOLT, Oil Seal Retainer	8
16	-----	§RING GEAR — See 66	1	52	107912	TUBE, Oil Drain	1
17	122068	DISC, Outer Clutch	1	53	107978	WASHER, Pinion Shaft	1
18	122068	DISC, Outer Clutch	1	54	107977	NUT, Pinion Shaft	1
19	122068	DISC, Outer Clutch	1	55	1F-748	COTTER, Pinion Shaft Nut	1
20	123381	WASHER, Differential Pinion Thrust	1	56	108455	FLANGE, Companion	1
21	815748	*PINION KIT, Differential	1	57	108454	RETAINER, Pinion Oil Seal	1
22	-----	PINION, Differential — See 21	—	58	11F-04	PLUG, Oil Seal Retainer	1
23	123381	WASHER, Differential Pinion Thrust	1	59	107971	GASKET, Oil Seal Retainer	1
24	123934	SPIDER, Differential	1	60	710034	CONE, Outer Pinion Bearing	1
25	122065	GEAR, Differential Side	1	61	108451	CAGE ASSY, Pinion Bearing (Inc. 48, 63)	1
26	122068	DISC, Outer Clutch	1	62	107973	‡SHIM, Bearing Cage — .004"	—
27	122068	DISC, Outer Clutch	1	62A	107974	†‡SHIM, Bearing Cage — .007"	—
28	122068	DISC, Outer Clutch	1	62B	107975	†‡SHIM, Bearing Cage — .010"	—
29	-----	§DIFF. CASE, Plain Half — See 67	1	63	710986	CUP, Center Pinion Bearing	1
30	124233	BOLT, Differential Case	8	64	122496	†DIFF. ASSY (Inc. 9 thru 35, 37)	1
30A	123500	†WASHER, Differential Case	8	65	122058	†DIFF. BODY SUB-ASSY (Inc. 9 thru 12, 15, 17 thru 35)	1
31	122069	DISC, Inner Clutch	1	66	122498	†GEAR & PINION SET (Inc. 16, 37)	1
32	122069	DISC, Inner Clutch	1	67	122059	†DIFF. CASE KIT (Inc. 15, 29, 30, 30A)	1
33	-----	PINION, Differential — See 21	—				
34	123381	WASHER, Differential Pinion Thrust	1				

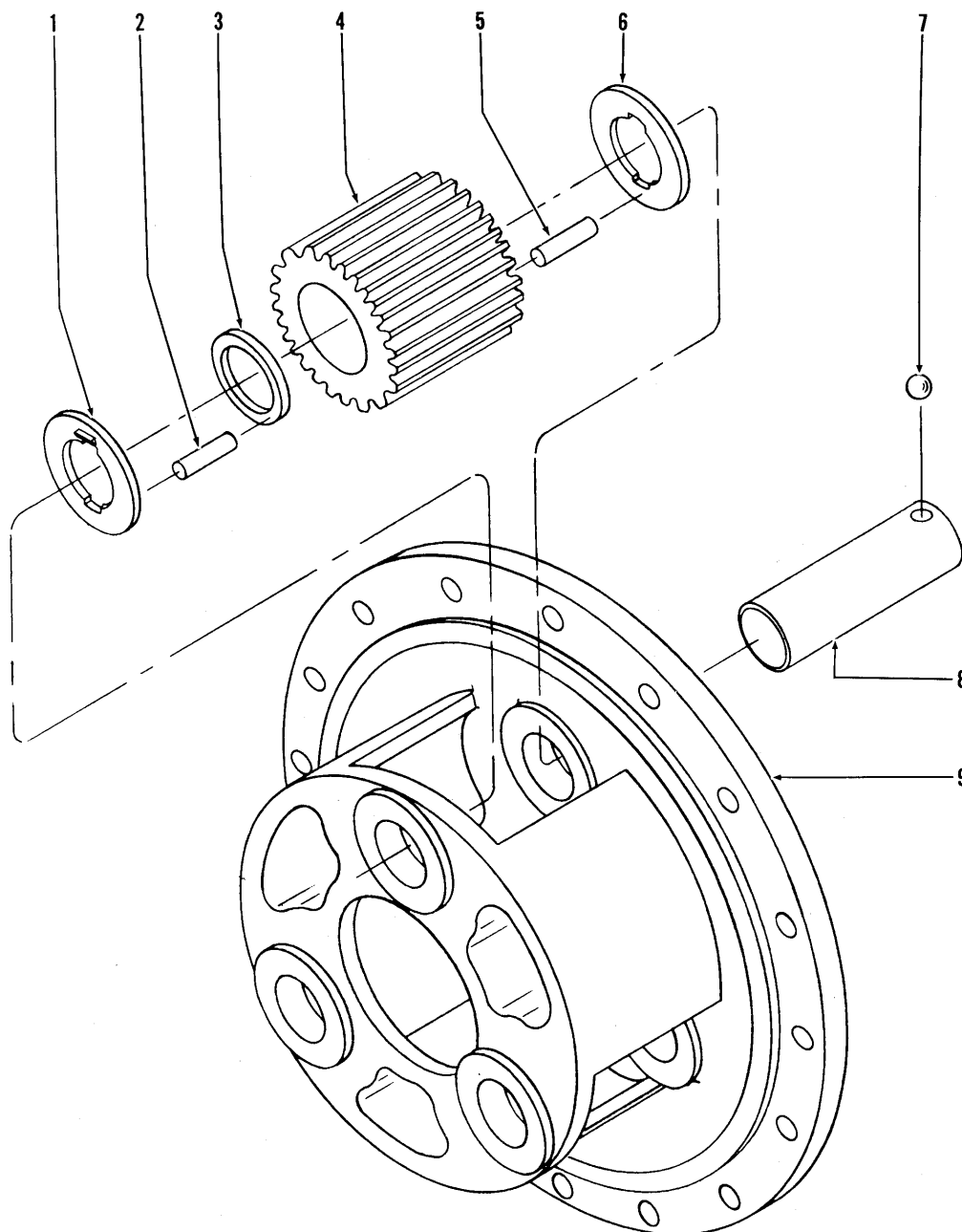
†Not Illustrated

§Not Sold Separately

‡As Required

*NOTE: 815748 Pinion Kit consists of 4 — 116421 Pinions.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-460

AXLE PLANET CARRIER ASSEMBLY – FRONT & REAR

Item No.	Part No.	Description	No. Req'd.
A	122505	CARRIER ASSY (Inc. 1 thru 9)	4
		NOTE: Four Carriers used on machine — Quantities listed below are for one Carrier	
1	107991	WASHER, Pinion Thrust	3
2	107992	ROLLER, Pinion	93
3	107993	SPACER, Pinion Roller	3
4	122506	PINION	3
5	107992	ROLLER, Pinion	93
6	107991	WASHER, Pinion Thrust	3
7	10J-16	BALL, Pinion Shaft Lock	3
8	107989	SHAFT, Pinion	3
9	117485	CARRIER, Planet	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



"B" GROUP
CONTENTS

Boom, Bellcranks, Pushrods, Bucket Leveler & Piping B 3

Bucket Assembly Data B 8

Brake Group:

 Brake Air Lines B 11

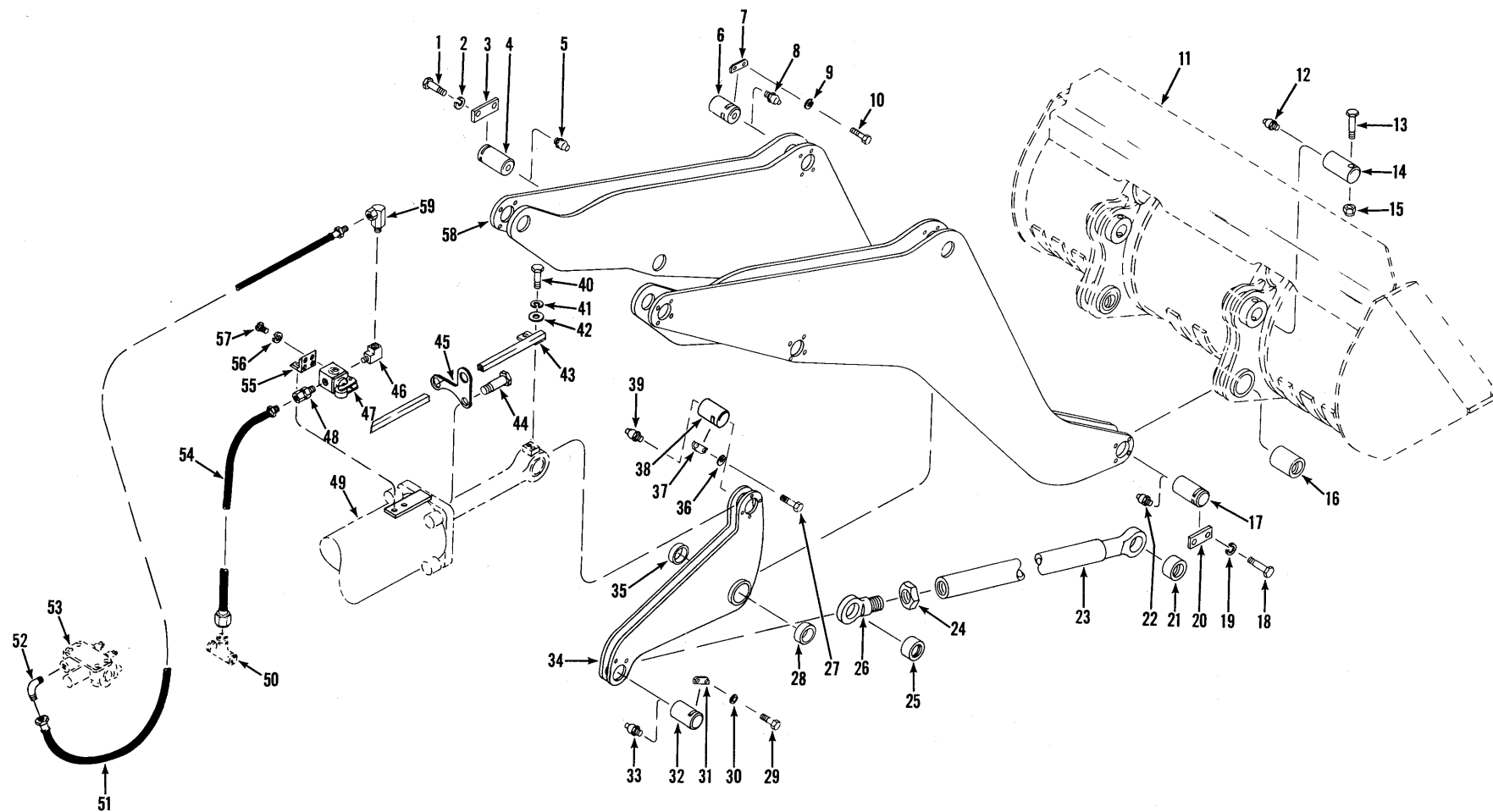
 Brake Assembly — Front & Rear B 18

 Brake Assembly — Parking B 19

 Brake Controls B 20

 Brake Controls Parking B 21

 Brake Lever Assembly — Parking B 23



BOOM, BELLCRANK, PUSHRODS, BUCKET LEVELER AND PIPING

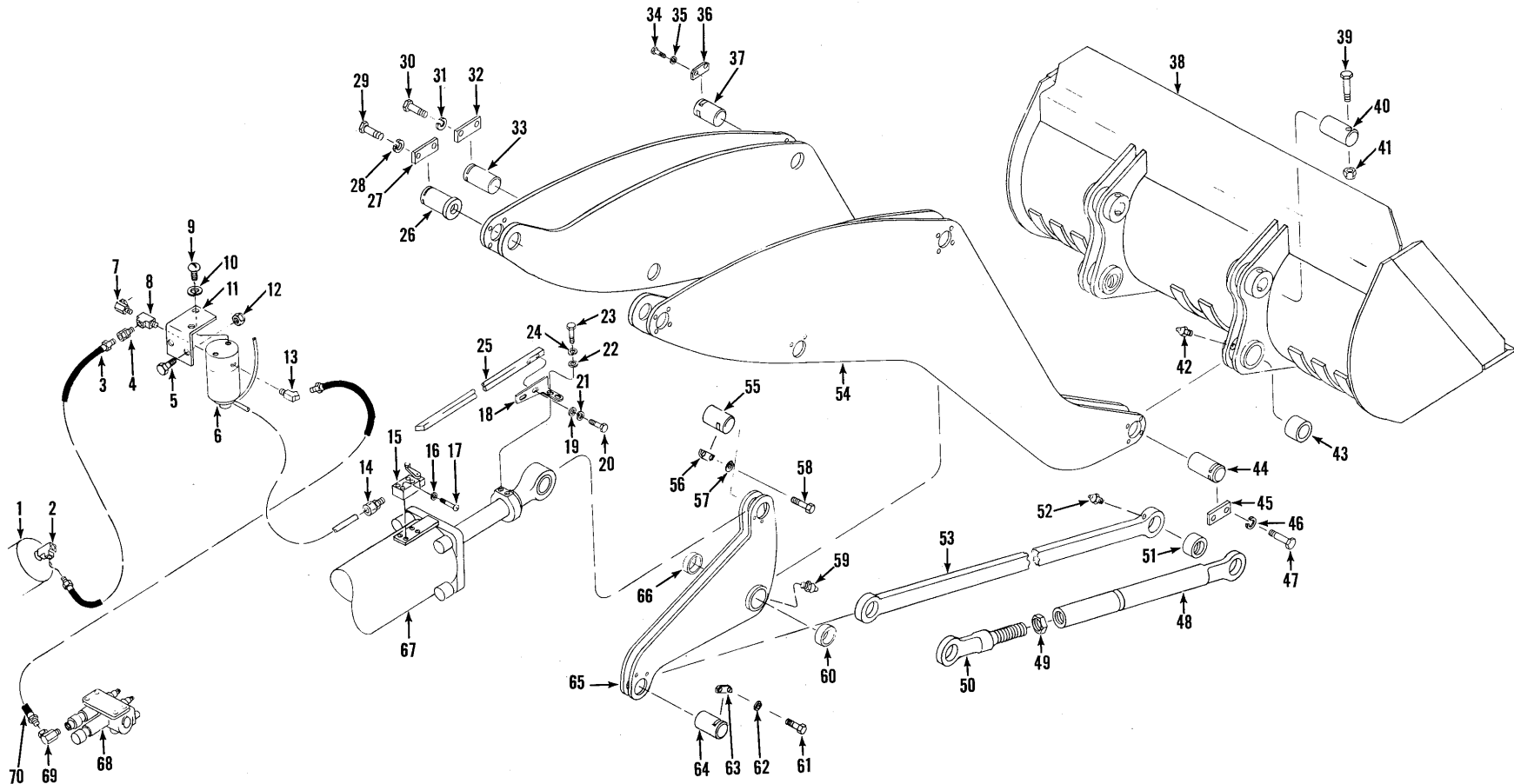
TS-10571

BOOM, BELLCRANKS, PUSHRODS, BUCKET LEVELER & PIPING
For Serial: 425A101 thru 316, 318 thru 325, 327 thru 330, 332 thru 336

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-820	BOLT, Lockplate to Boom	8	31	1544087	LOCKPLATE, Pin	2
2	4E-08	LKWSHR, Lockplate to Boom	8	32	1509721	PIN, Pushrod	2
3	1544087	LOCKPLATE, Pin	4	33	10H-25	FITTING, Grease	2
4		BOOM CYLINDER PIN		34	1510105	BELLCRANK (Inc. 28, 35)	2
4A	1510998	For Serial Group "A"	2	35	1509720	BUSHING, Bellcrank	2
4B	1510996	For Serial Group "B"	2	36	4E-08	LKWSHR, Lockplate to Bellcrank	8
5	10H-25	FITTING, Grease	2	37	1544087	LOCKPLATE, Pin	4
6	1510997	PIN, Bellcrank	2	38	1537763	PIN, Bucket Cylinder	2
7	1544087	LOCKPLATE, Pin	4	39	10H-25	FITTING, Grease	2
8	10H-25	FITTING, Grease	2	40	24C-620	BOLT, Cam to Cylinder	4
9	4E-08	LKWSHR, Lockplate to Boom	8	41	4E-06	LKWSHR, Cam to Cylinder	4
10	24C-820	BOLT, Lockplate to Boom	8	42	619021	WASHER, Cam to Cylinder	4
11	-----	BUCKET ASSY — See Index	—	43	1543303	CAM, Bucket Leveler	1
12	10H-25	FITTING, Grease	2	43A	1528638	†BRACKET, Cam	1
13	24C-896	BOLT, Pin Retaining	2	44	-----	OMIT, Not Used This Application	—
14	1537762	PIN, Pushrod to Bucket	2	45	-----	OMIT, Not Used This Application	—
15	18D-08	NUT, Pin Retaining	2	46	29F-1	ELBOW, Adapter to Valve	1
16	1509786	BUSHING, Bucket	4	47	-----	VALVE ASSY, Bucket Leveler — Air — See Index	—
17	1510996	PIN, Boom to Bucket	2	48	36F-2	ADAPTER, Hose to Valve	1
18	24C-820	BOLT, Lockplate to Boom	8	49	-----	CYLINDER ASSY, Bucket — See Index	—
19	4E-08	LKWSHR, Lockplate to Boom	8	50	-----	TEE, See Brake Air Lines	—
20	1544087	LOCKPLATE, Pin	4	51	1517049	HOSE, Pilot Valve to Bucket Leveler Valve	1
21	549669	BUSHING, Pushrod	2	52	941421	ELBOW, Hose to Valve	1
22	10H-25	FITTING, Grease	2	53	-----	PILOT VALVE — See Index	—
23	1509729	PUSHROD, Bucket (Inc. 21)	2	54	1543007	HOSE, Bucket Leveler Valve to Tee	1
24	1520686	NUT, Pushrod Jam	2	55	-----	BRACKET — Part of Cylinder	—
25	549669	BUSHING, Pushrod Eye	2	56	12E-10	LKWSHR, Bucket Leveler Valve Mounting	2
26	569708	EYE, Pushrod Adjusting (Inc. 25)	2	57	86G-1010	SCREW, Bucket Leveler Valve Mounting	2
27	24C-820	BOLT, Lockplate to Bellcrank	8	58	1509713	BOOM	1
28	1509720	BUSHING, Bellcrank	2	59	31F-2	ADAPTER, Elbow to Hose	1
29	24C-820	BOLT, Lockplate to Bellcrank	4				
30	4E-08	LKWSHR, Lockplate to Bellcrank	4				

†Not Illustrated
Serial Group "A": 425A101 thru 316, 319 thru 325, 327 thru 336.
Serial Group "B": 425A318.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BOOM, BELLCRANKS, PUSHRODS, BUCKET LEVELER & PIPING
For Serial: 425A317, 326, 331, 337 thru 999

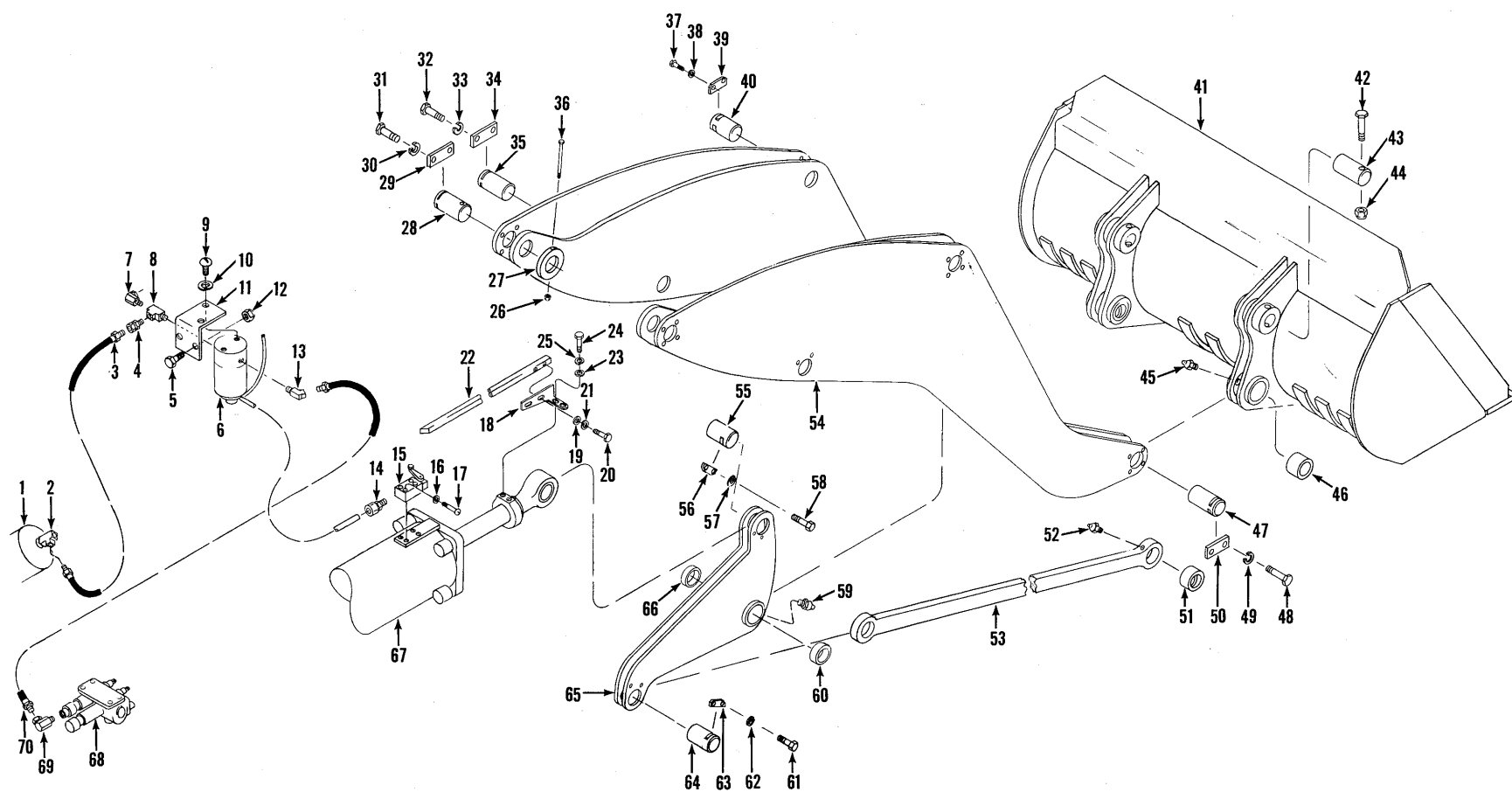
TS-11529

BOOM, BELLCRANKS, PUSHRODS, BUCKET LEVELER & PIPING
For Serial: 425A317, 326, 331, 337 thru 999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	AIR RESERVOIR — See Index	—	36	1540887	LOCKPLATE, Pin	4
2	36F-2	TEE, Reservoir to Hose	1	37	1510997	PIN, Boom to Bellcrank	2
3	593267	HOSE, Reservoir to Solenoid	1	38	-----	BUCKET — See Index	—
3A	75F-2	†COUPLING, Hose to Reservoir	1	39	24C-896	BOLT, Pin Retaining	2
3B	25F-2	†ELBOW, Hose to Reservoir	1	40	1537762	PIN, Pushrod to Bucket	2
3C	19F-5	†BUSHING, Hose to Reservoir	1	41	18D-08	NUT, Pin Retaining Bolt	2
3D	5K-220	†NIPPLE, Hose to Reservoir	1	42	10H-25	FITTING, Pin Grease	4
4	-----	OMIT, Not Used This Application	—	43	1509786	BUSHING, Boom to Bucket	4
5	24C-416	BOLT, Bracket Mounting	2	44	1510996	PIN, Boom to Bucket	2
6	1510445	VALVE, Solenoid	1	45	1544087	LOCKPLATE, Pin	4
7	-----	OMIT, Not Used This Application	—	46	4E-08	LKWSHR, Lockplate to Boom	8
8	31F-2	ADAPTER	1	47	24C-820	BOLT, Lockplate to Boom	8
9	86G-1010	SCREW, Solenoid Mounting	2	48	1509729	PUSHROD, Bucket (Serial Group "A" only) (Inc. 51)	2
10	12E-10	LKWSHR, Solenoid Mounting	2	49	1520686	NUT, Pushrod Jam (Serial Group "A" only)	2
11	1548001	BRACKET, Solenoid Mounting	1	50	569708	EYE, Pushrod Adjusting (Serial Group "A" only) (Inc. 51)	2
12	18D-04	NUT, Bracket Mounting	2	51	549669	BUSHING, Pushrod	4
13	81F-1	ELBOW, Solenoid to Hose	1	52	10H-25	FITTING, Pin Grease	4
14	1549705	CONNECTOR, Cable	1	53	1513230	PUSHROD, Bucket (Serial Group "B" only) (Inc. 51)	2
15	308301	SWITCH, Limit	1	54	1509713	BOOM ASSY	2
16	17E-10	LKWSHR, Limit Switch Mounting	4	55	1537763	PIN, Bellcrank to Cylinder	2
17	41G-1024	SCREW, Limit Switch Mounting	4	56	1544087	LOCKPLATE, Pin	2
18	1512173	BRACKET, Cam Rod Mounting	1	57	4E-08	LKWSHR, Lockplate to Bellcrank	4
19	619021	WASHER, Cam to Bracket	2	58	24C-820	BOLT, Lockplate to Bellcrank	4
20	24C-620	BOLT, Cam to Bracket	2	59	632289	FITTING, Pin Grease	2
21	4E-06	LKWSHR, Cam to Bracket	2	60	1509720	BUSHING, Bellcrank	2
22	619021	WASHER, Bracket to Cylinder	2	61	24C-820	BOLT, Lockplate to Bellcrank	4
23	24C-620	BOLT, Bracket to Cylinder	2	62	4E-08	LKWSHR, Lockplate to Bellcrank	4
24	4E-06	LKWSHR, Bracket to Cylinder	2	63	1544087	LOCKPLATE, Pin	2
25	1528637	CAM, Limit Switch Lever	1	64	1509721	PIN, Bellcrank to Pushrod	2
26	1510995	PIN, Boom to Frame	2	65	1512423	BELLCRANK (Inc. 60, 66)	2
27	1544087	LOCKPLATE, Pin	4	66	1509720	BUSHING, Bellcrank	2
28	4E-08	LKWSHR, Lockplate to Boom	8	67	-----	CYLINDER, Bucket — See Index	—
29	24C-820	BOLT, Lockplate to Boom	8	68	-----	CONTROL VALVE — See Index	—
30	24C-820	BOLT, Lockplate to Boom	4	69	1311154	ADAPTER, Hose to Valve	1
31	4E-08	LKWSHR, Lockplate to Boom	4	70	593495	HOSE, Valve to Solenoid	1
32	1544087	LOCKPLATE, Pin	2				
33	1510996	PIN, Boom to Boom Cylinder	2				
34	24C-820	BOLT, Lockplate to Boom	8				
35	4E-08	LKWSHR, Lockplate to Boom	8				

†Not Illustrated
Serial Group "A": 425A317, 326, 331, 337 thru 380.
Serial Group "B": 425A381 thru 999.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



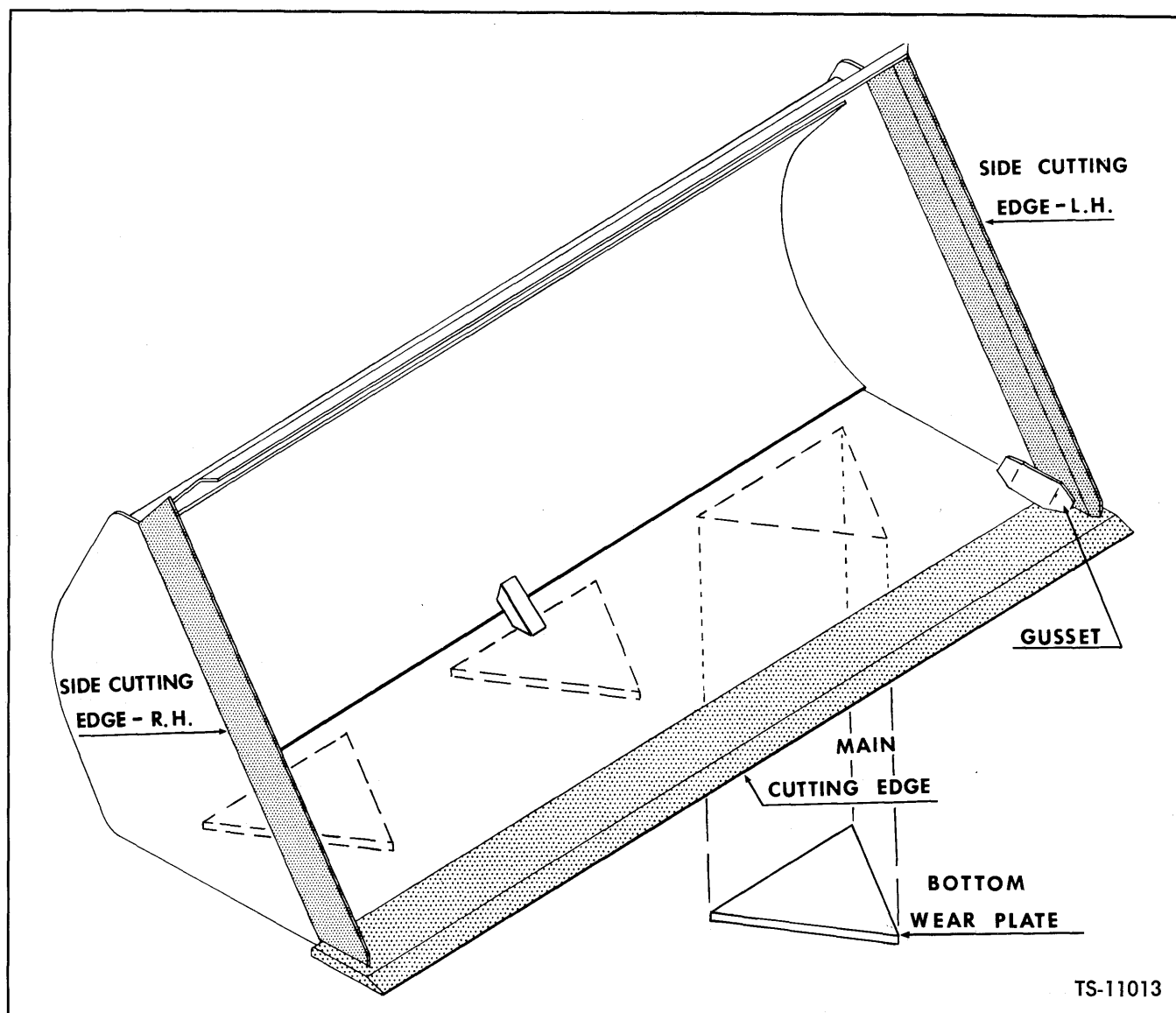
BOOM, BELLCRANKS, PUSHRODS, BUCKET LEVELER & PIPING
For Serial: 425B101 & After

TS-11482

BOOM, BELLCRANKS, PUSHRODS, BUCKET LEVELER & PIPING
For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RESERVOIR — See Index	—	36	24C-8112	BOLT, Pin Retaining	1
2	30F-3	TEE, Reservoir to Hose	1	37	24C-820	BOLT, Lockplate to Boom	8
3	1542822	HOSE, Reservoir to Valve	1	38	4E-08	LKWSHR, Lockplate to Boom	8
4	36F-2	UNION, Adapter	1	39	1544087	LOCKPLATE, Pin	4
5	24C-412	BOLT, Bracket Mounting	2	40	1510997	PIN, Boom to Bellcrank	2
6	1510445	VALVE, Solenoid	1	41	-----	BUCKET — See Index	—
7	31F-2	ADAPTER	1	42	24C-896	BOLT, Pin Retaining	2
8	30F-3	TEE, Solenoid to Hose	1	43	1537762	PIN, Pushrod to Bucket	2
9	86G-1010	SCREW, Solenoid Mounting	2	44	18D-08	NUT, Pin Retaining Bolt	2
10	12E-10	LKWSHR, Solenoid Mounting	2	45	10H-25	FITTING, Bushing Grease	2
11	1548001	BRACKET, Solenoid Mounting	1	46	1509786	BUSHING, Boom to Bucket	4
12	18D-04	NUT, Bracket Mounting	2	47	1510996	PIN, Boom to Bucket	2
13	81F-1	ELBOW, Solenoid to Hose	1	48	24C-820	BOLT, Lockplate to Boom	8
14	1549705	CONNECTOR, Cable	1	49	4E-08	LKWSHR, Lockplate to Boom	8
15	308031	SWITCH, Limit	1	50	1544087	LOCKPLATE, Pin	4
16	17E-10	LKWSHR, Limit Switch Mounting	4	51	549669	BUSHING, Pushrod	4
17	41G-1024	BOLT, Limit Switch Mounting	4	52	10H-25	FITTING, Pin Grease	4
18	1513805	BRACKET, Cam Rod Mounting	1	53	1513229	PUSHROD, Bucket (Inc. 51)	2
19	619021	WASHER, Cam to Bracket	2	54	1512655	BOOM ASSY	1
20	24C-620	BOLT, Cam to Bracket	2	55	1537763	PIN, Bellcrank to Cylinder	1
21	4E-06	LKWSHR, Cam to Bracket	2	56	1544087	LOCKPLATE, Pin	2
22	1528637	CAM, Limit Switch Lever	1	57	4E-08	LKWSHR, Lockplate to Bellcrank	4
23	619021	WASHER, Bracket to Cylinder	2	58	24C-820	BOLT, Lockplate to Bellcrank	4
24	24C-620	BOLT, Bracket to Cylinder	2	59	10H-25	FITTING, Pin Grease	2
25	4E-06	LKWSHR, Bracket to Cylinder	2	60	1509720	BUSHING, Bellcrank	2
26	18D-08	NUT, Pin Retaining Bolt	2	61	24C-820	BOLT, Lockplate to Bellcrank	4
27	1514222	COLLAR, Pin Retaining	2	62	4E-08	LKWSHR, Lockplate to Bellcrank	4
28	1514224	PIN, Boom to Frame	2	63	1544087	LOCKPLATE, Pin	2
29	1544087	LOCKPLATE, Pin	4	64	1509721	PIN, Bellcrank to Pushrod	2
30	4E-08	LKWSHR, Lockplate to Boom	8	65	1512423	BELLCRANK (Inc. 60, 66)	2
31	24C-820	BOLT, Lockplate to Boom	8	66	1509720	BUSHING, Bellcrank	2
32	24C-820	BOLT, Lockplate to Boom	8	67	-----	CYLINDER, Bucket — See Index	—
33	4E-08	LKWSHR, Lockplate to Boom	8	68	-----	CONTROL VALVE — See Index	—
34	1544087	LOCKPLATE, Pin	4	69	1311154	ADAPTER, Hose to Valve	1
35	1510996	PIN, Boom Cylinder	2	70	593495	HOSE, Solenoid to Control Valve	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



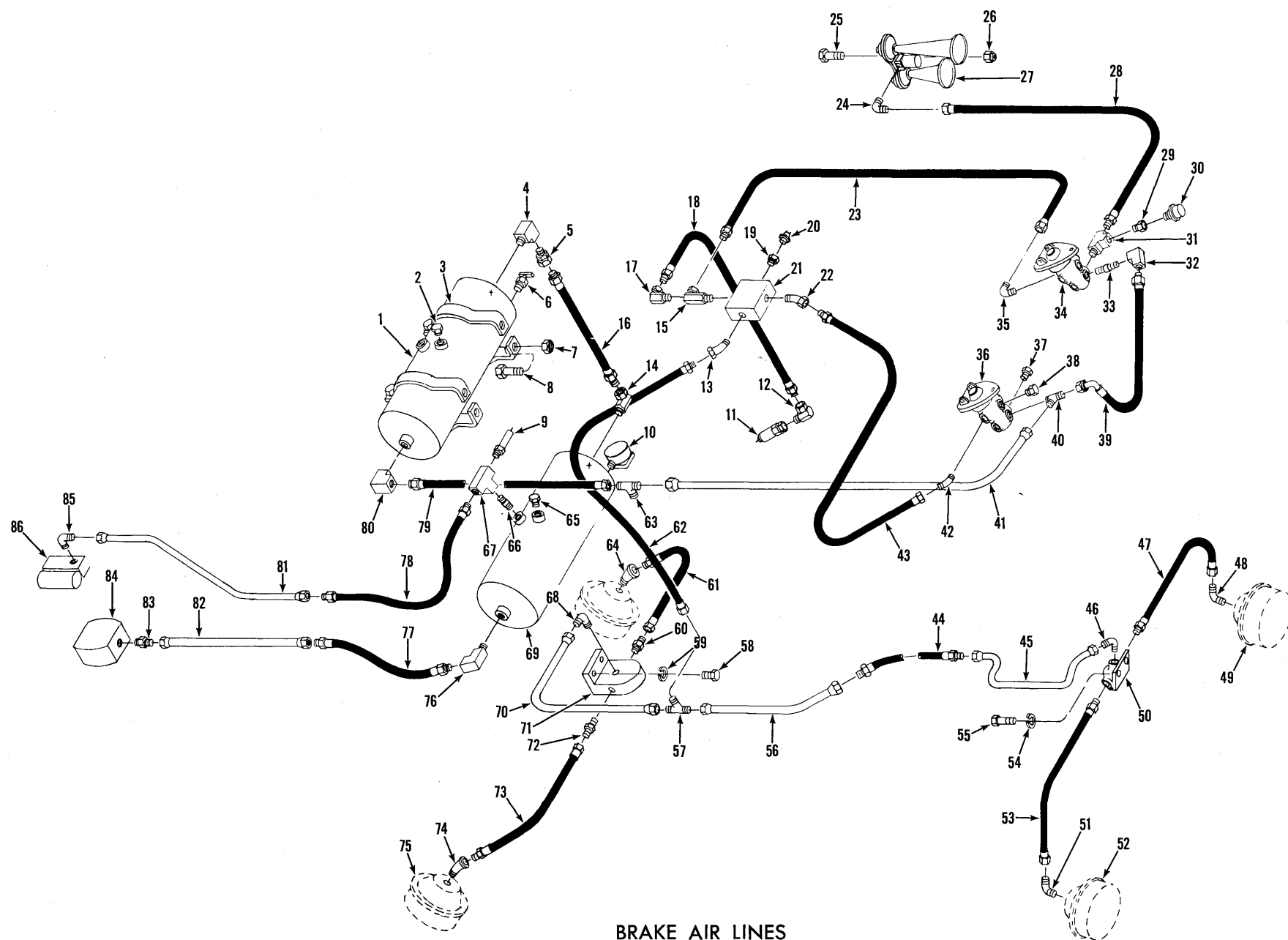
TS-11013

BUCKET ASSEMBLY DATA

BUCKET				MAIN CUTTING EDGE		SIDE CUTTING EDGES			GUSSET
Item No.	S.A.E. Heaped Capacity Cu. Yd.	Width "	Part No.	Part No.	Size "	L.H. Part No.	R.H. Part No.	Size "	2 Req'd. Part No.
1	6	138½	*1544478	1534902	2 x 12½ x 138½	----	----	----	1536086
2	6½	138½	*1547077	1534902	2 x 12½ x 138½	----	----	----	1536086
3	6½	138½	*1509882	1506345	2 x 12½ x 138½	1505992	1505993	1¼ x 9 x 59%	1536086
4	6½	138½	*1547095	1546990	2 x 24½ x 138½	----	----	----	1536086
5	7	138½	*1547256	1534902	2 x 12½ x 138½	1546991	1546992	1¼ x 9 x 63	1536086
6	8	138½	*1547312	1534902	2 x 12½ x 138½	1547274	1547275	1¼ x 9 x 68	1536086
7	14	166½	*1547402	1544960	2 x 12½ x 166½	1547347	1547346	1¼ x 9 x 81	1536086

*NOTE: These Buckets use 4 — 1547255 Wear Plates & 12 — 1537996 Wear Plate Retainers.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BRAKE AIR LINES

For Serial: 425A101 thru 316, 318 thru 325, 327 thru 330, 332 thru 336

TS-10635

BRAKE AIR LINES
For Serial: 425A101 thru 316, 318 thru 325, 327 thru 330, 332 thru 336

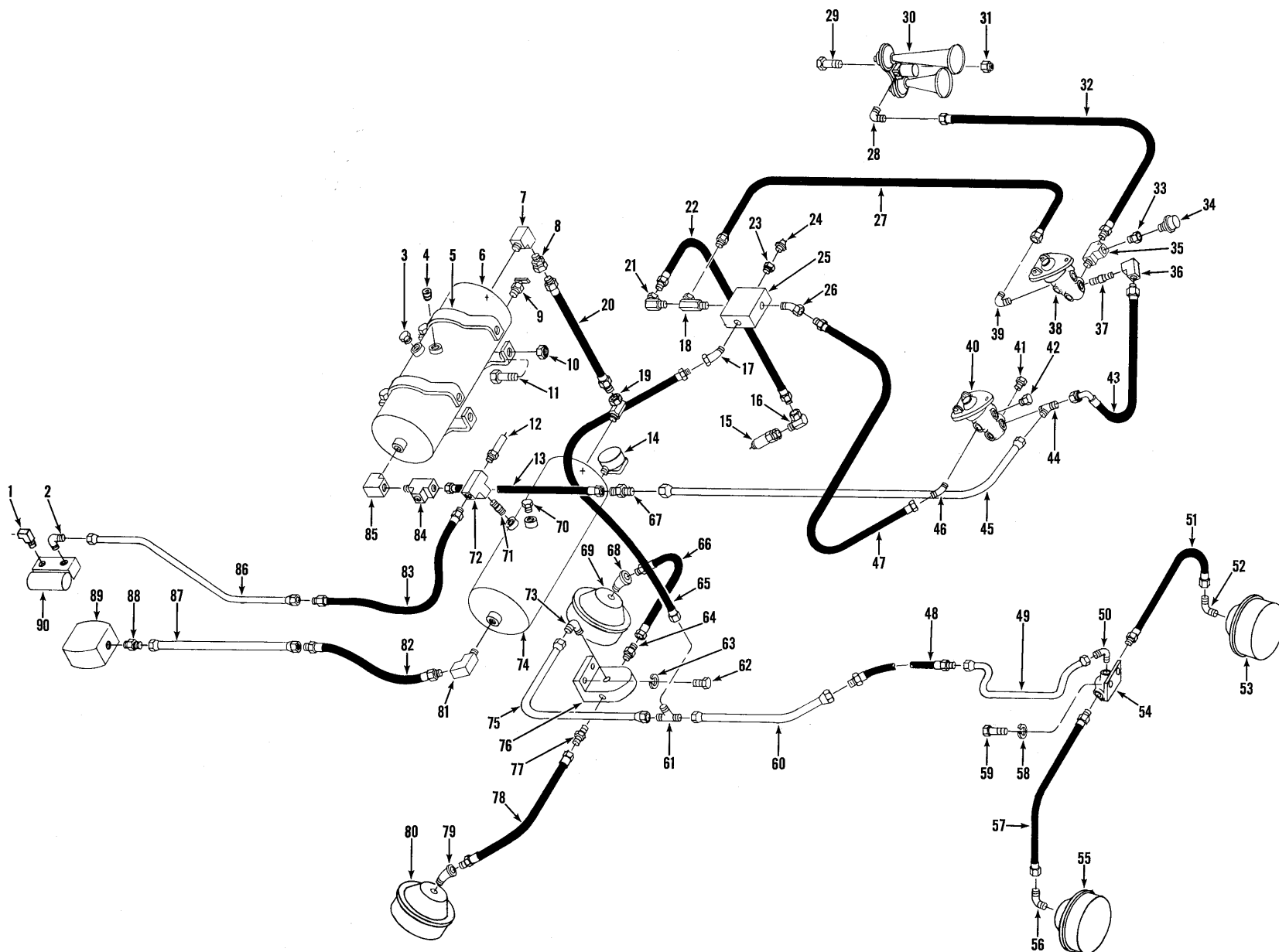
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	539164	*RESERVOIR, Air (B.W. #225224)	1	39	1545548	HOSE, Brake Valve to Brake Valve	1
2	40K-06	PLUG, Air Reservoir	2	40	46F-9	TEE, Hose to Valve	1
3	941813	*BRACKET, Reservoir to Bracket (B.W. #221399)	4	41	1542780	TUBE, Reservoir to Brake Valve	1
4	1542832	ELBOW, Check Valve to Reservoir	1	42	84F-7	ELBOW, Hose to Brake Valve	1
5	593370	VALVE, Check (B.W. #228194)	1	43	1542820	HOSE, Double Check Valve to Brake Valve	1
6	72F-2	DRAIN COCK, Reservoir	1	44	1538454	HOSE, Center Pivot	1
7	18D-06	NUT, Bracket to Bracket	8	45	1548634	TUBE, Q.R.V. to Center Pivot Hose	1
8	24C-616	BOLT, Bracket to Bracket	8	46	42F-9	ELBOW, Q.R.V. to Tube	1
9	507815	*VALVE, Safety (B.W. #205105)	1	47	570145	HOSE, Q.R.V. to Air Chamber	1
10	1505580	*VALVE, Automatic Drain (B.W. #281823)	1	48	42F-6	ELBOW, Hose to Air Chamber	1
11	217927	VALVE, Declutch — See Index	1	49	—	AIR CHAMBER — See Index	—
12	31F-1	ADAPTER UNION — Hose to Declutch Valve	1	50	521439	*VALVE, Quick Release (B.W. #228691)	1
13	33F-4	ADAPTER UNION, Hose to Double Check Valve	1	51	42F-6	ELBOW, Hose to Air Chamber	1
14	711053	ADAPTER UNION, Hose to Reservoir	1	52	—	AIR CHAMBER — See Index	—
15	356609	ADAPTER UNION	1	53	570145	HOSE, Q.R.V. to Air Chamber	1
16	1542821	HOSE, Reservoir to Reservoir	1	54	4E-05	LKWSHR, Q.R.V. Mounting	2
17	31F-1	ADAPTER UNION, Hose to Double Check Valve	1	55	18C-510	BOLT, Q.R.V. Mounting	2
18	540915	HOSE, Double Check Valve to Declutch Valve	1	56	1538740	TUBE, Tube to Pivot Hose	1
19	19F-4	BUSHING, Reducing	1	57	44F-8	TEE, Hose to Tubes	1
20	636260	SWITCH, Pressure	1	58	24C-510	BOLT, Q.R.V. Mounting	2
21	1532592	*VALVE, Double Check (B.W. #228194)	1	59	4E-05	LKWSHR, Q.R.V. Mounting	2
21A	24C-644	†BOLT, Double Check Valve Mounting	1	60	38F-9	ADAPTER, Q.R.V. to Hose	1
21B	4E-06	†LKWSHR, Double Check Valve Mounting	1	61	569719	HOSE, Q.R.V. to Air Chamber	1
22	33F-4	ADAPTER UNION, Hose to Double Check Valve	1	62	1542820	HOSE, Double Check Valve to Air Chambers	1
23	1545549	HOSE, Brake Valve to Double Check Valve	1	63	1542831	TEE, Bucket Leveler Connecting	1
24	42F-3	ELBOW, Hose to Air Horn	1	64	25F-2	ELBOW, Hose to Air Chamber	1
25	24C-416	BOLT, Air Horn Mounting	2	65	40K-06	PLUG, Air Reservoir	1
26	18D-04	NUT, Air Horn Mounting	2	66	5K-308	NIPPLE, Tee to Reservoir	1
27	547631	HORN (Inc. 27A)	1	67	20F-19	TEE, Hose & Safety Valve to Reservoir	1
27A	947160	†SOLENOID, Horn	1	68	42F-9	ELBOW, Tube to Q.R.V.	1
28	1543947	HOSE, Brake Valve to Horn	1	69	539164	*RESERVOIR, Air (B.W. #225224)	1
29	19F-1	BUSHING, Reducing	1	70	1542776	TUBE, Tee to Quick Release Valve	1
30	1534135	SENDER, Air Pressure	1	71	521439	*VALVE, Quick Release (B.W. #228691)	1
31	30F-1	TEE, Hose to Brake Valve	1	72	38F-9	ADAPTER, Q.R.V. to Hose	1
32	27F-3	ELBOW, Hose to Brake Valve	1	73	569719	HOSE, Q.R.V. to Air Chamber	1
33	5K-420	NIPPLE, Elbow to Brake Valve	1	74	25F-2	ELBOW, Hose to Air Chamber	1
34	—	VALVE, Brake — See Index	—	75	—	AIR CHAMBER — See Index	1
35	42F-9	ELBOW, Hose to Brake Valve	1	76	1542832	ELBOW, Hose to Reservoir	1
36	—	VALVE, Brake — See Index	1	77	521441	HOSE, Compressor Tube to Reservoir	1
37	40K-04	PLUG, Brake Valve	3	78	1545191	HOSE, Governor Tube to Reservoir	1
38	40K-08	PLUG, Brake Valve	8	79	1542820	HOSE, Reservoir to Brake Valves	1
				80	1542832	ELBOW, Hose to Reservoir	1
				81	1548631	TUBE, Hose to Governor	1
				82	1548632	TUBE, Hose to Compressor	1
				83	38F-10	ADAPTER, Tube to Compressor	1
				84	—	COMPRESSOR, Furnished with Engine	—
				85	42F-3	ELBOW, Tube to Governor	1
				86	—	GOVERNOR, Furnished with Engine	—

†Not Illustrated

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of these parts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TS-11481



BRAKE AIR LINES
For Serial: 425A317, 326, 331, 337 thru 999

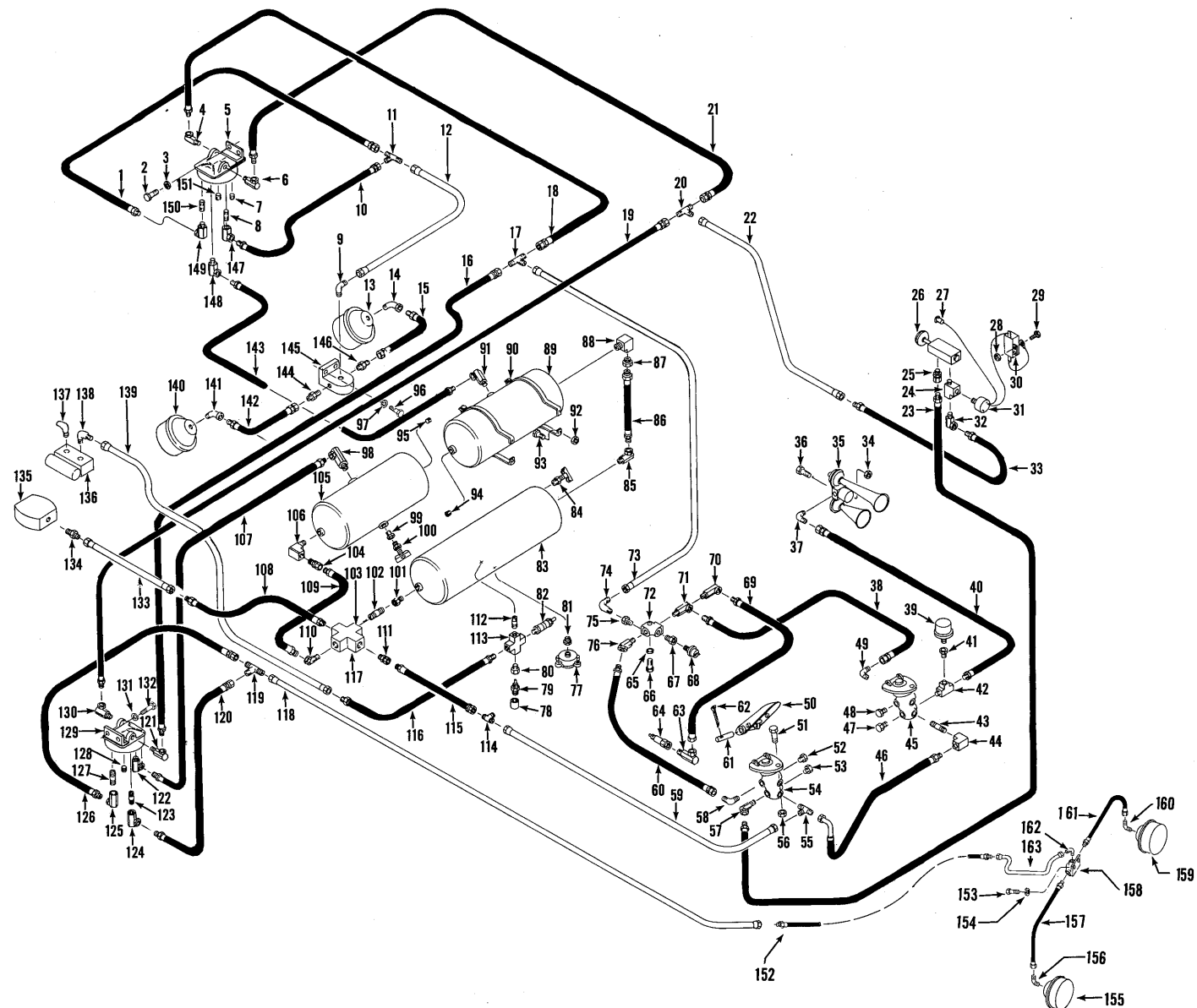
BRAKE AIR LINES
For Serial: 425A317, 326, 331, 337 thru 999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	62F-1	ELBOW, Exhaust	1	43	1545548	HOSE, Brake Valve to Brake Valve	1
2	42F-3	ELBOW, Tube to Governor	1	44	46F-9	TEE, Hose to Brake Valve	1
3	40K-06	PLUG, Air Reservoir	1	45	1542780	TUBE, Reservoir to Brake Valve	1
4	16F-06	PLUG, Air Reservoir	1	46	84F-7	ELBOW, Hose to Brake Valve	1
5	941813	*BRACKET, Reservoir Mounting (B.W. #221399)	4	47	1542820	HOSE, Brake Valve to Double Check Valve	1
6	539164	*RESERVOIR, Air (B.W. #221399)	1	48	1538454	HOSE, Center Pivot	1
7	1542832	ELBOW, Check Valve to Reservoir	1	49	1548634	TUBE, Hose to Q.R.V.	1
8	593370	*VALVE, Check (B.W. #228194)	1	50	42F-9	ELBOW, Tube to Q.R.V.	1
9	72F-2	DRAIN COCK, Reservoir	1	51	570145	HOSE, Q.R.V. to Air Chamber	1
10	18D-06	NUT, Reservoir Mounting	8	52	42F-6	ELBOW, Hose to Air Chamber	1
11	24C-616	BOLT, Reservoir Mounting	8	53	-----	AIR CHAMBER — See Index	1
12	507815	*VALVE, Safety (B.W. #205105)	1	54	521439	*VALVE, Quick Release (B.W. #228691)	1
13	1542820	HOSE, Reservoir to Brake Valve	1	55	-----	AIR CHAMBER — See Index	1
14	1505580	*VALVE, Automatic Drain (B.W. #281923)	1	56	42F-6	ELBOW, Hose to Air Chamber	1
15	-----	VALVE, Transmission Declutch — See Index	1	57	570145	HOSE, Q.R.V. to Air Chamber	1
16	31F-1	ADAPTER, Hose to Declutch Valve	1	58	4E-05	LKWSHR, Q.R.V. Mounting	2
17	33F-4	ADAPTER, Hose to Double Check Valve	1	59	24C-510	BOLT, Q.R.V. Mounting	2
18	356609	ADAPTER, Hose to Double Check Valve	1	60	1538740	TUBE, Pivot Hose to Tube	1
19	710053	ELBOW, Hose to Reservoir	1	61	44F-8	TEE, Hose to Tubes	1
20	1542821	HOSE, Reservoir to Reservoir	1	62	24C-510	BOLT, Q.R.V. Mounting	2
21	31F-1	ADAPTER, Hose to Double Check Valve	1	63	4E-05	LKWSHR, Q.R.V. Mounting	2
22	540915	HOSE, Double Check Valve to Declutch Valve	1	64	38F-9	CONNECTOR, Hose to Q.R.V.	1
23	19F-4	BUSHING, Reducing	1	65	1542820	HOSE, Double Check Valve to Tee	1
24	636260	SWITCH, Pressure	1	66	568609	HOSE, Q.R.V. to Air Chamber	1
25	1532592	*VALVE, Double Check (B.W. #228194)	1	67	40F-8	CONNECTOR, Hose to Tube	1
25A	24C-644	†BOLT, Valve Mounting	1	68	25F-2	ELBOW, Hose to Air Chamber	1
25B	4E-06	†LKWSHR, Valve Mounting	1	69	-----	AIR CHAMBER — See Index	1
26	33F-4	ADAPTER, Hose to Double Check Valve	1	70	40K-06	PLUG, Air Reservoir	1
27	1545549	HOSE, Brake Valve to Double Check Valve	1	71	5K-308	NIPPLE, Tee to Reservoir	1
28	42F-3	ELBOW, Hose to Air Horn	1	72	20F-19	TEE, Hose & Safety Valve to Reservoir	1
29	24C-416	BOLT, Horn Mounting	2	73	42F-9	ELBOW, Tube to Q.R.V.	1
30	547631	HORN (Inc. 30A)	1	74	539164	*RESERVOIR, Air (B.W. #225224)	1
30A	947160	†SOLENOID, Horn	1	75	1542776	TUBE, Tee to Q.R.V.	1
31	18D-04	NUT, Horn Mounting	2	76	521439	*VALVE, Quick Release (B.W. #228691)	1
32	1543947	HOSE, Brake Valve to Horn	1	77	38F-9	CONNECTOR, Hose to Q.R.V.	1
33	19F-1	BUSHING, Reducing	1	78	568609	HOSE, Q.R.V. to Air Chamber	1
34	1534135	SENDER, Air Pressure	1	79	25F-2	ELBOW, Hose to Air Chamber	1
35	30F-1	TEE, Sender & Horn to Brake Valve	1	80	-----	AIR CHAMBER — See Index	1
36	27F-3	ELBOW, Hose to Brake Valve	1	81	1542832	ELBOW, Hose to Reservoir	1
37	5K-420	NIPPLE, Elbow to Brake Valve	1	82	521441	HOSE, Compressor to Reservoir	1
38	-----	VALVE, Air Brake — See Index	1	83	1545191	HOSE, Governor to Reservoir	1
39	42F-9	ELBOW, Hose to Brake Valve	1	84	30F-3	TEE, Hose to Reservoir	1
40	-----	VALVE, Air Brake — See Index	1	85	1542832	ELBOW, Tee to Reservoir	1
41	40K-04	PLUG, Brake Valve	3	86	1548631	TUBE, Governor to Reservoir	1
42	40K-08	PLUG, Brake Valve	8	87	1548632	TUBE, Compressor to Reservoir	1
				88	38F-10	CONNECTOR, Tube to Compressor	1
				89	-----	COMPRESSOR, Furnished with Engine	—
				90	-----	GOVERNOR, Furnished with Engine	—

†Not Illustrated

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of these parts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BRAKE AIR LINES
For Serial: 425B101 & After

TS-11572

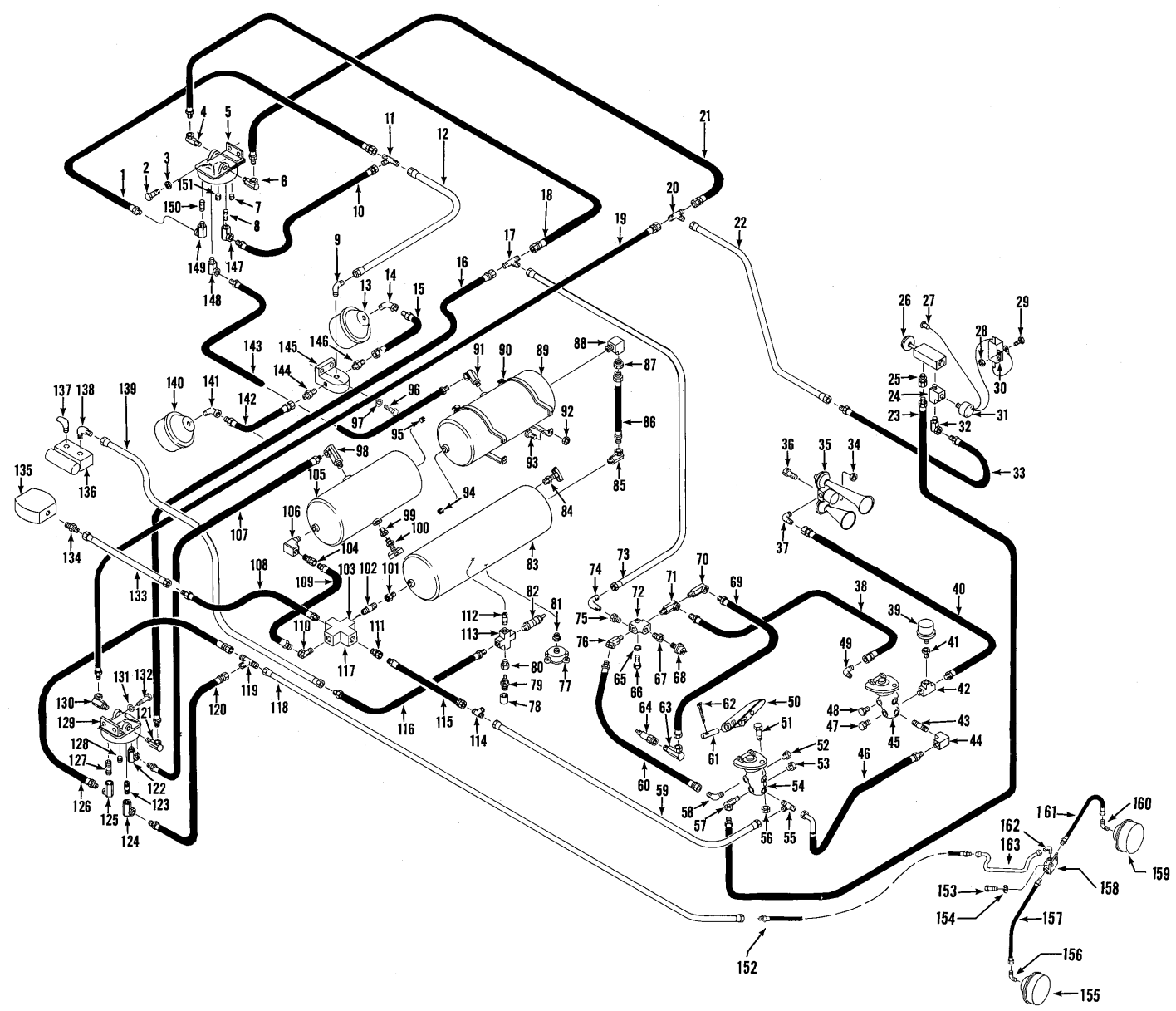
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BRAKE AIR LINES For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	573472	HOSE, Emergency Relay to Axles	1	39	1534135	SENDER, Air Pressure	1
2	24C-616	BOLT, Relay Mounting	2	40	1543947	HOSE, Valve to Horn	1
3	4E-06	LKWSHR, Relay Mounting	2	41	19F-1	ADAPTER, Sender to Tee	1
4	31F-2	ELBOW, Relay to Hose	1	42	30F-1	TEE, Valve to Hose	1
5	1545789	RELAY, Emergency	1	43	5K-420	NIPPLE, Valve to Elbow	1
6	31F-2	ELBOW, Relay to Hose	1	44	27F-3	ELBOW, Valve to Hose	1
7	16F-04	PLUG, Pipe	1	45	-----	VALVE, Brake Foot — See Index	—
8	5K-210	NIPPLE, Relay to Elbow	1	46	1545548	HOSE, Valve to Valve	1
9	42F-9	ELBOW, Valve to Tube	1	47	40K-04	PLUG, Pipe	1
10	1514424	HOSE, Relay to Axles	1	48	40K-08	PLUG, Pipe	4
11	44F-8	TEE, Hoses to Tube	1	49	42F-9	ELBOW, Valve to Hose	1
12	1514430	TUBE, Hose to Valve	1	50	-----	PEDAL, Brake — See Index	—
13	-----	CHAMBER, Air Brake — See Index	—	51	24C-520	BOLT, Valve Mounting	6
14	25F-2	ELBOW, Chamber to Hose	1	52	40K-08	PLUG, Pipe	4
15	568609	HOSE, Valve to Chambers	1	53	40K-04	PLUG, Pipe	1
16	1514473	HOSE, Relay to Tee	1	54	-----	VALVE, Brake Foot — See Index	—
17	10K-3	TEE, Hoses to Tube	1	55	46F-9	TEE, Valve to Tube	1
18	1514473	HOSE, Relay to Tee	1	56	18D-05	NUT, Valve Mounting	6
19	1514473	HOSE, Relay to Tee	1	57	33F-2	ELBOW, Valve to Hose	1
20	10K-3	TEE, Hoses to Tube	1	58	84F-7	ELBOW, Valve to Hose	1
21	1514473	HOSE, Relay to Tee	1	59	1542780	TUBE, Reservoir to Valve	1
22	1514428	TUBE, Tee to Valve	1	60	1542820	HOSE, Valve to Check Valve	1
23	1514653	HOSE, Valve to Valve	1	61	-----	PIN, Pedal to Valve — See Index	—
24	1549038	TEE, Valve to Sender	1	62	-----	COTTER, Pin — See Index	—
25	36F-1	ADAPTER, Valve to Hose	1	63	31F-1	ADAPTER, Hose to Valve	1
26	1545790	VALVE, Emergency Brake	1	64	217927	VALVE, Transmission Declutch	1
27	1548542	LIGHT, Low Pressure Warning	1	65	4E-06	LKWSHR, Check Valve Mounting	1
28	18D-04	NUT, Warning Buzzer Mounting	2	66	24C-644	BOLT, Check Valve Mounting	1
29	24C-412	BOLT, Warning Buzzer Mounting	2	67	19F-4	BUSHING, Check Valve to Switch	1
30	1548952	BUZZER, Low Pressure Warning	1	68	636260	SWITCH, Pressure	1
31	1534135	SWITCH, Pressure	1	69	540915	HOSE, Valve to Check Valve	1
32	33F-1	ELBOW, Tee to Hose	1	70	31F-1	ADAPTER, Hose to Valve	1
33	1512797	HOSE, Valve to Tube	1	71	356609	ADAPTER, Hose to Check Valve	1
34	18D-04	NUT, Horn Mounting	2	72	1532592	VALVE, Check	1
35	547631	HORN (Inc. 35A)	1	73	1514431	TUBE, Check Valve to Tee	1
35A	947160	†SOLENOID, Horn	1	74	42F-3	ELBOW, Tube to Valve	1
36	24C-416	BOLT, Horn Mounting	2	75	19F-4	BUSHING, Elbow to Valve	1
37	42F-3	ELBOW, Horn to Hose	1	76	33F-4	ADAPTER, Valve to Hose	1
38	1545549	HOSE, Valve to Valve	1				

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BRAKE AIR LINES
For Serial: 425B101 & After

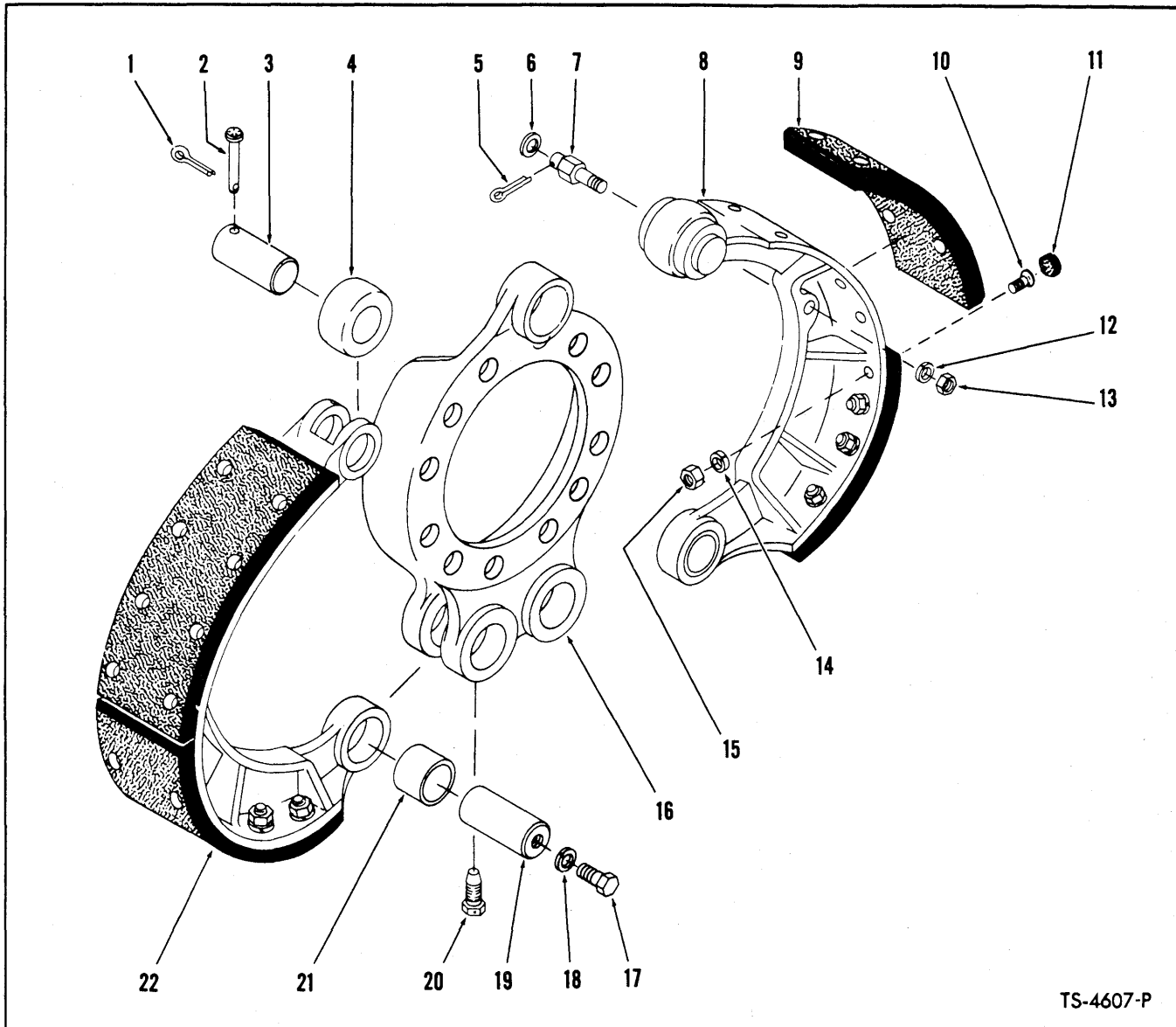
TS-11572

BRAKE AIR LINES (Continued)
For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
77	1505580	VALVE, Drain	1	119	44F-8	TEE, Tube to Hoses	1
78	573750	CAP, Valve	1	120	1514424	HOSE, Relay to Axle	1
79	573618	STEM AND CORE ASSY	1	121	31F-2	ELBOW, Relay to Hose	1
80	19F-1	BUSHING, Cross to Core Assy	1	122	661417	ELBOW, Relay to Hose	1
81	19F-3	BUSHING, Drain to Reservoir	1	123	5K-210	NIPPLE, Relay to Elbow	1
82	507815	VALVE, Safety	1	124	632710	ELBOW, Relay to Hose	1
83	539164	*RESERVOIR, Air (B.W. #225224)	1	125	632710	ELBOW, Relay to Hose	1
84	72F-2	DRAIN COCK	1	126	573472	HOSE, Relay to Axle	1
85	31F-4	ADAPTER, Reservoir to Hose	1	127	5K-210	NIPPLE, Relay to Elbow	1
86	1542821	HOSE, Reservoir to Reservoir	1	128	16F-04	PLUG, Pipe	2
87	593370	VALVE, Check	1	129	1545789	RELAY, Emergency	1
88	29F-3	ELBOW, Reservoir to Hose	1	130	31F-2	ELBOW, Relay to Hose	1
89	513842	*RESERVOIR, Air (B.W. #227901)	1	131	4E-06	LKWSHR, Relay Mounting	2
90	941813	BRACKET, Air Reservoir Mounting	6	132	24C-616	BOLT, Relay Mounting	2
91	31F-4	ADAPTER, Reservoir to Hose	1	133	1548632	TUBE, Compressor to Reservoir	1
92	18D-06	NUT, Reservoir Mounting	12	134	38F-10	CONNECTOR, Compressor to Tube	1
93	24C-616	BOLT, Reservoir Mounting	12	135	-----	COMPRESSOR, Air — See Engine	—
94	16F-08	PLUG, Pipe	1	136	-----	GOVERNOR, Compressor — See Engine	—
95	16F-08	PLUG, Pipe	1	137	62F-1	ELBOW, Exhaust	1
96	24C-510	BOLT, Valve Mounting	2	138	42F-3	ELBOW, Governor to Tube	1
97	4E-05	LKWSHR, Valve Mounting	2	139	1548631	TUBE, Governor to Reservoir	1
98	31F-4	ADAPTER, Reservoir to Hose	1	140	-----	CHAMBER, Air Brake — See Index	—
99	19F-5	BUSHING, Drain to Reservoir	2	141	25F-2	ELBOW, Chamber to Hose	1
100	72F-2	DRAINCOCK	2	142	568609	HOSE, Chamber to Valve	1
101	356617	BUSHING, Cross to Reservoir	1	143	1514425	HOSE, Reservoir to Relay	1
102	5K-409	NIPPLE, Cross to Reservoir	1	144	38F-9	CONNECTOR, Hose to Valve	1
103	29K-308	CROSS, Hoses to Reservoir	1	145	521439	VALVE, Quick Release	1
104	593370	VALVE, Check	1	146	38F-9	CONNECTOR, Hose to Valve	1
105	513842	*RESERVOIR, Air (B.W. #227901)	1	147	632710	ELBOW, Relay to Hose	1
106	29F-3	ELBOW, Reservoir to Hose	1	148	661417	ELBOW, Relay to Hose	1
107	1514425	HOSE, Reservoir to Relay	1	149	632710	ELBOW, Relay to Hose	1
108	521441	HOSE, Compressor to Reservoir	1	150	5K-210	NIPPLE, Relay to Elbow	1
109	1542821	HOSE, Reservoir to Reservoir	1	151	16F-04	PLUG, Pipe	1
110	33F-4	ELBOW, Hose to Cross	1	152	1538454	HOSE, Tube to Tube	1
111	36F-4	ADAPTER, Hose to Cross	1	153	24C-510	BOLT, Valve to Frame	2
112	5K-210	NIPPLE, Cross to Reservoir	1	154	4E-05	LKWSHR, Valve to Frame	2
113	29F-204	CROSS, Hose to Reservoir	1	155	-----	AIR CHAMBER — See Index	—
114	1542831	TEE, Hose to Tube	1	156	42F-6	ELBOW, Hose to Chamber	1
115	1542820	HOSE, Reservoir to Valve	1	157	570145	HOSE, Valve to Chamber	1
116	1545191	HOSE, Reservoir to Governor	1	158	521439	VALVE, Quick Release	1
117	29K-308	CROSS, Reservoir to Hoses	1	159	-----	AIR CHAMBER — See Index	—
118	1514429	TUBE, Relay to Axle	1	160	42F-6	ELBOW, Hose to Chamber	1
				161	570145	HOSE, Valve to Chamber	1
				162	42F-9	ELBOW, Valve to Tubing	1
				163	1548634	TUBE, Hose to Valve	1

*NOTE: Your local authorized Bendix-Westinghouse Distributor is equipped to service components of these parts.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-4607-P

BRAKE ASSEMBLY — FRONT AND REAR

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	122503	BRAKE ASSY, Front and Rear (Inc. 1 thru 4, 7 thru 22)	4	9B	114307	Oversize — 1/8"	4
NOTE: Four Brakes used on machine — Quantities listed below are for one Brake				10	107706	SCREW, Lining to Shoe	32
1	1F-308	COTTER, Roller Pin Lock Pin	2	11	113249	PLUG, Brake Lining	32
2	815971	PIN, Cam Roller Pin Lock	2	12	4E-06	LKWSHR, Spring Anchor Pin	2
3	112211	PIN, Brake Cam Roller	2	13	62D-06	NUT, Spring Anchor Pin	2
4	112210	ROLLER, Brake Cam	2	14	24E-06	LKWSHR, Lining to Shoe	32
5	1F-412	COTTER, Spring Anchor Pin	2	15	122504	NUT, Lining to Shoe 62D-06	32
6	619027	WASHER, Spring Anchor Pin	2	16	112214	SPIDER, Front Brake 122504	1
7	112216	PIN, Spring Anchor	2	17	1C-812	BOLT, Puller Hole Plug	2
8	—	§SHOE, Brake — See 22	2	18	4E-08	LKWSHR, Puller Hole Plug	2
9	—	LINING, Brake Shoe	—	19	112213	PIN, Brake Shoe Anchor	2
9A	114306	Standard	4	20	109597	SCREW, Anchor Pin Set	2
				21	112212	BUSHING, Brake Shoe	2
				22	114304	SHOE ASSY, Brake (Inc. 1 thru 4, 8 thru 11, 14, 15, 21)	2

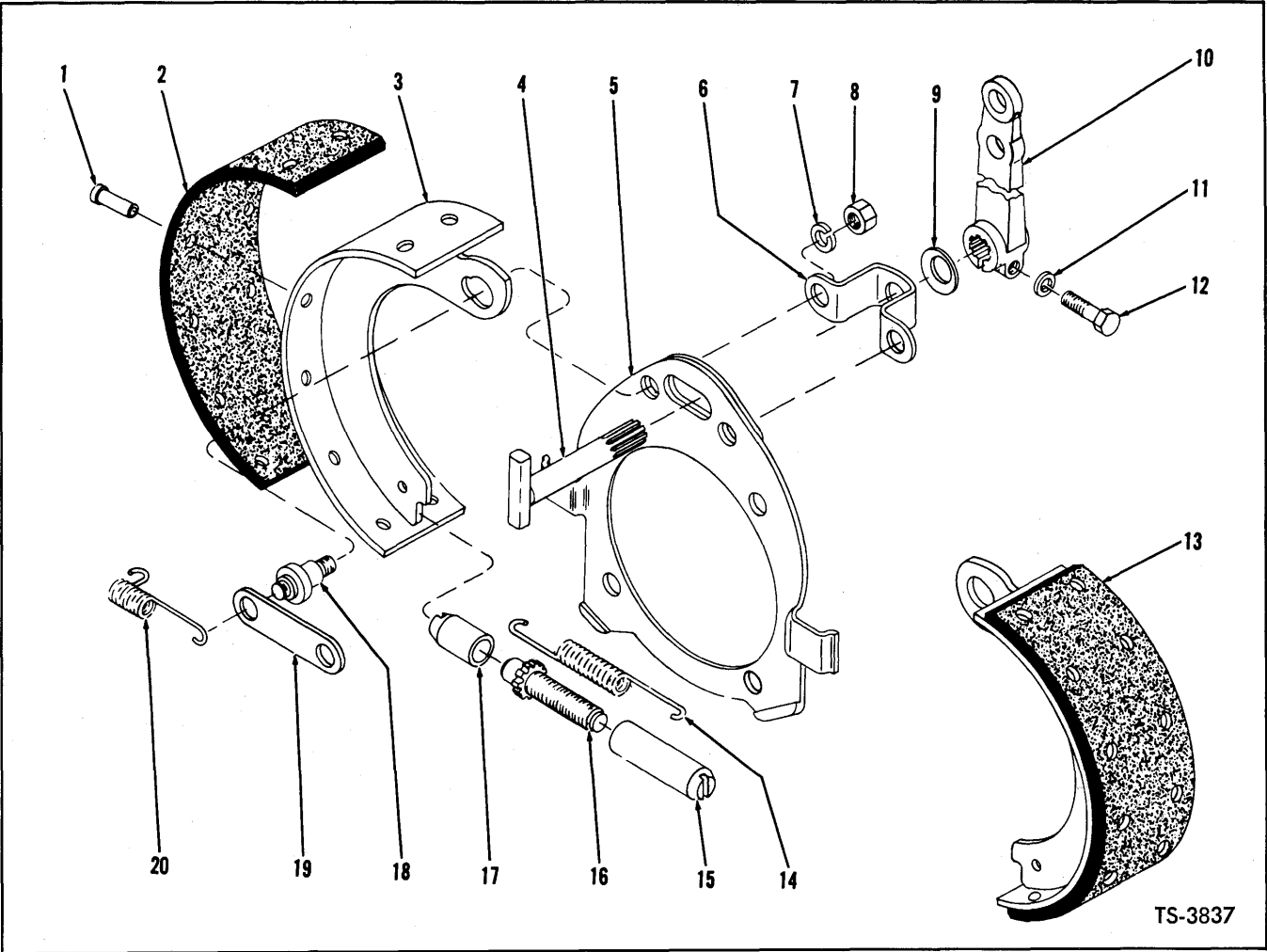
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

[B18-1]

PM 2814

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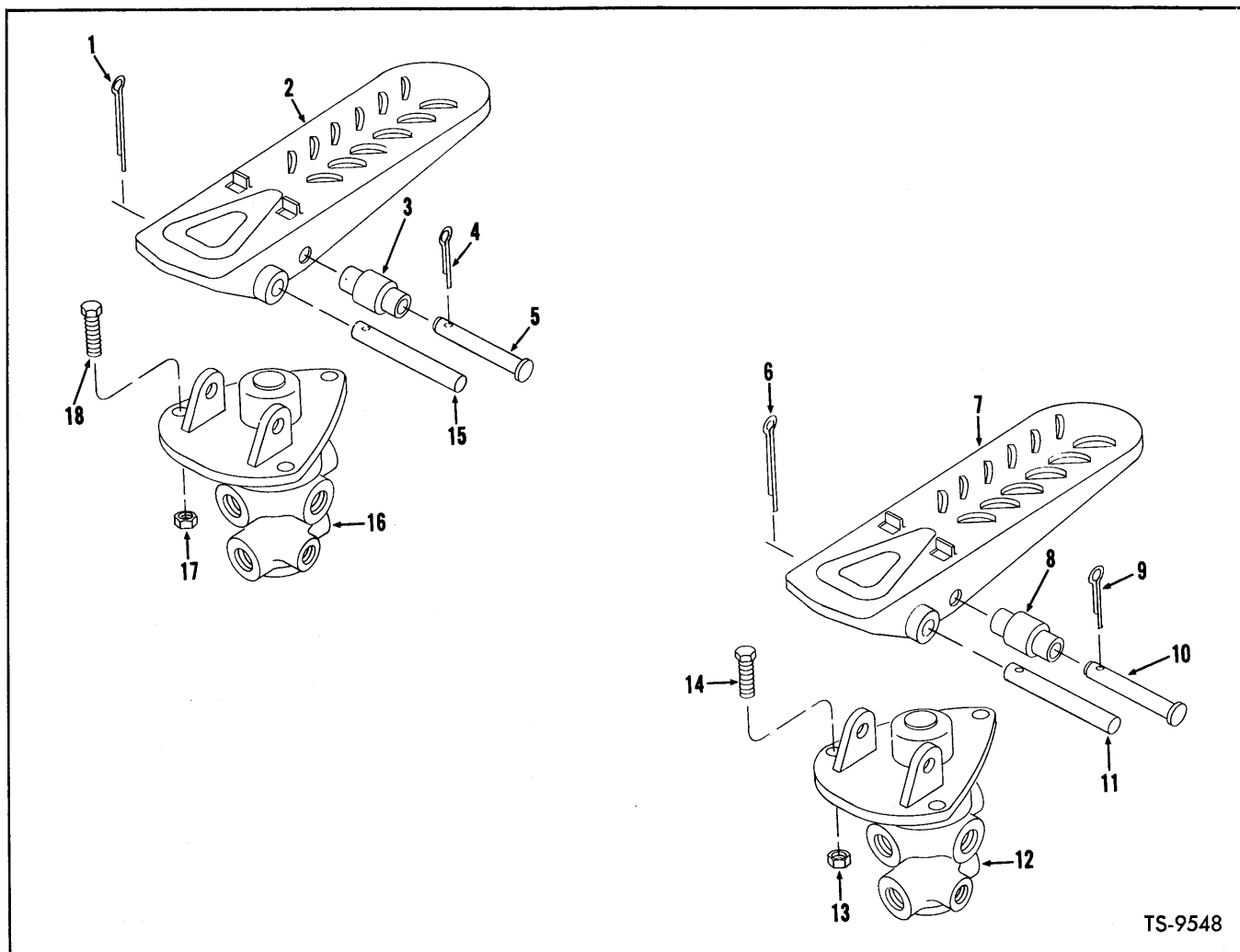


BRAKE ASSEMBLY — PARKING
For Serial: 425A101 thru 999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	110594	BRAKE ASSY (Inc. 1 thru 20)	1	11	4E-06	LKWSHR, Lever to Shaft	1
1	943466	RIVET, Lining to Shoe	24	12	943464	BOLT, Lever to Shaft	1
2	944664	LINING KIT, Brake Shoe (Inc. 1)	1	13	944665	SHOE ASSY, Brake (Inc. 1, 2, 3)	2
3	—	§SHOE, Brake — See 13	2	14	943458	SPRING, Adjusting Screw	1
4	944659	CAM SHAFT, Brake	1	15	943463	NUT, Adjusting Screw	1
5	944656	PLATE, Brake Mounting	1	16	943462	SCREW, Adjusting	1
6	944658	BRACKET, Cam Shaft Support	1	17	943465	SOCKET, Adjusting Screw	1
7	4E-12	LKWSHR, Anchor Pin	2	18	944657	PIN, Anchor	2
8	62D-12	NUT, Anchor Pin	2	19	944660	BRACE, Anchor Pin	1
9	944663	WASHER, Shaft to Lever	1	20	944661	SPRING, Shoe Return	2
10	943455	LEVER, Brake Control	1				

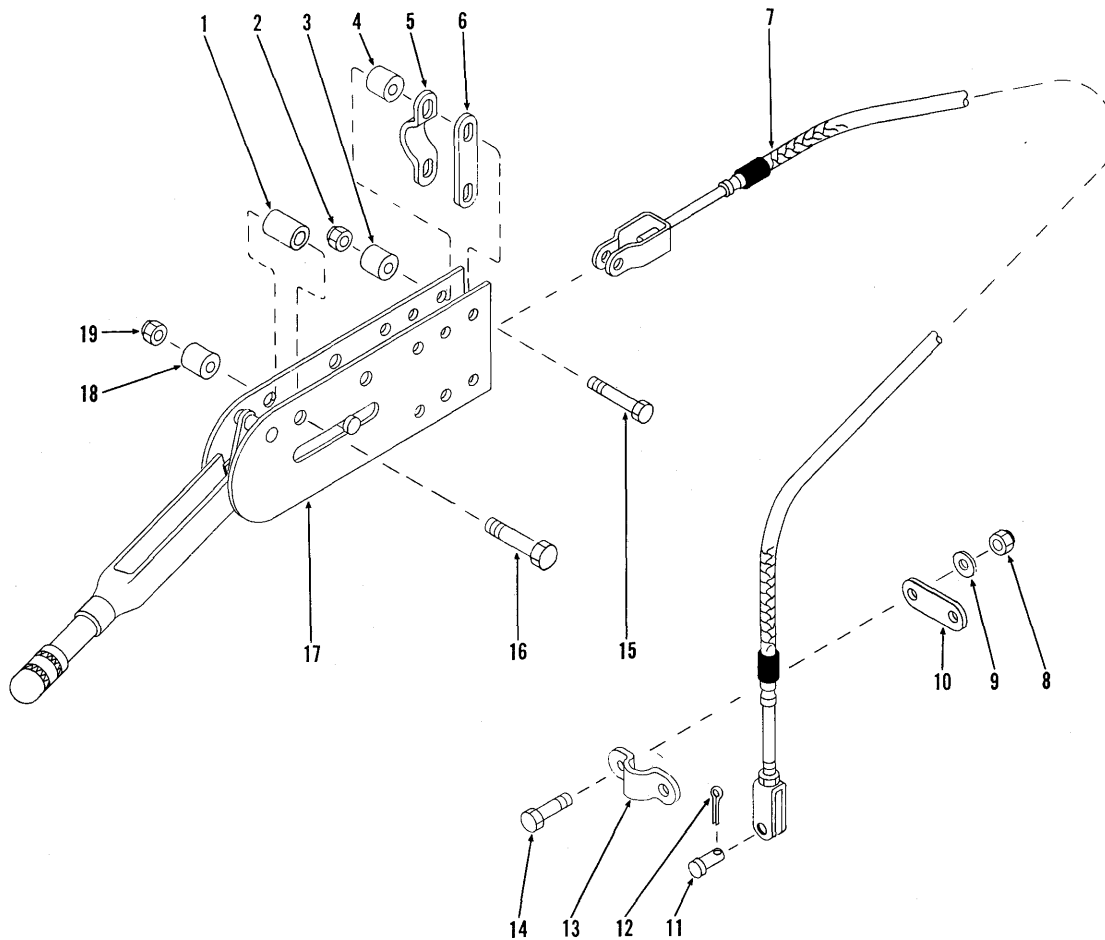
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**BRAKE CONTROLS**

Item No.	Part No.	Description	Req'd.
1	1F-320	COTTER, Pedal to Pin	1
2	513930	PEDAL ASSY, Air Brake	1
3	518259	ROLLER, Pedal	1
4	1F-312	COTTER, Pedal to Pin	1
5	875766	PIN, Pedal to Roller	1
6	1F-320	COTTER, Pedal to Pin	1
7	513930	PEDAL ASSY, Air Brake	1
8	518259	ROLLER, Pedal	1
9	1F-312	COTTER, Pedal to Pin	1
10	875766	PIN, Pedal to Roller	1
11	875767	PIN, Pedal to Valve	1
12	-----	VALVE, Air Brake — See Index	1
13	18D-05	NUT, Valve Mounting	3
14	24C-520	BOLT, Valve Mounting	3
15	875767	PIN, Pedal to Valve	1
16	-----	VALVE, Air Brake — See Index	1
17	18D-05	NUT, Valve Mounting	3
18	24C-520	BOLT, Valve Mounting	3

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



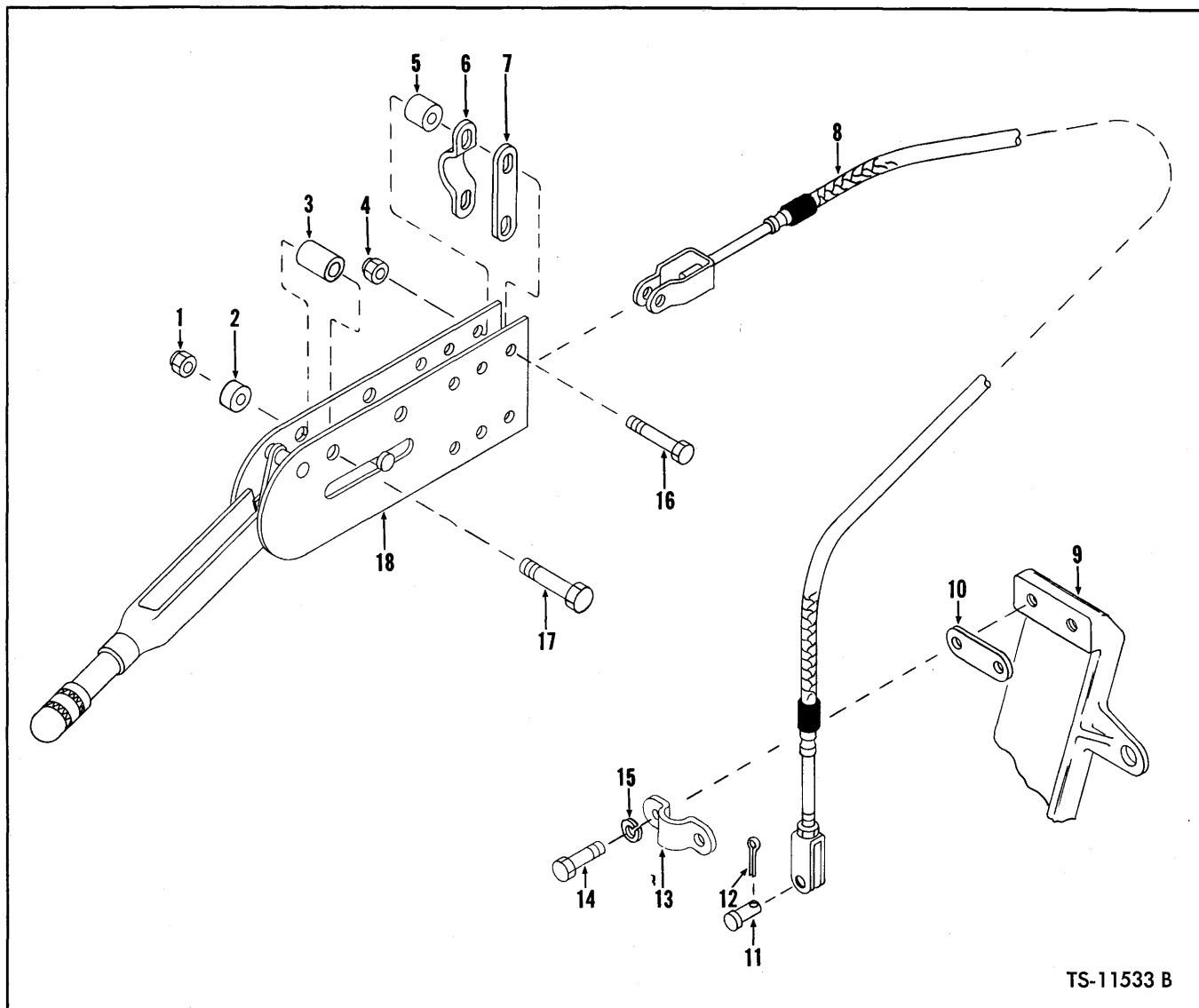
TS-7647

BRAKE CONTROLS — PARKING

For Serial: 425A101 thru 999

Item No.	Part No.	Description	No. Req'd.
1	545005	SPACER, Lever Mounting	2
2	18D-05	NUT, Cable Mounting	2
3	-----	OMIT, Not Used on This Application	—
4	545006	SPACER, Cable Mounting	2
5	544512	CLAMP, Cable	1
6	645092	LINK, Cable Clamp	1
7	1532762	CABLE, Parking Brake	1
8	18D-05	NUT, Clamp	2
9	664403	WASHER, Clamp	2
10	645092	LINK, Cable Clamp	1
11	4F-08127	PIN, Cable Clevis	1
12	1F-414	COTTER, Clevis Pin	1
13	544512	CLAMP, Cable	1
14	24C-520	BOLT, Cable Clamp	2
15	24C-528	BOLT, Cable Clamp	2
16	24C-644	BOLT, Lever Mounting	2
17	-----	PARKING BRAKE LEVER ASSY — See Index	—
18	545006	SPACER, Lever Mounting	2
19	18D-06	NUT, Lever Mounting	2

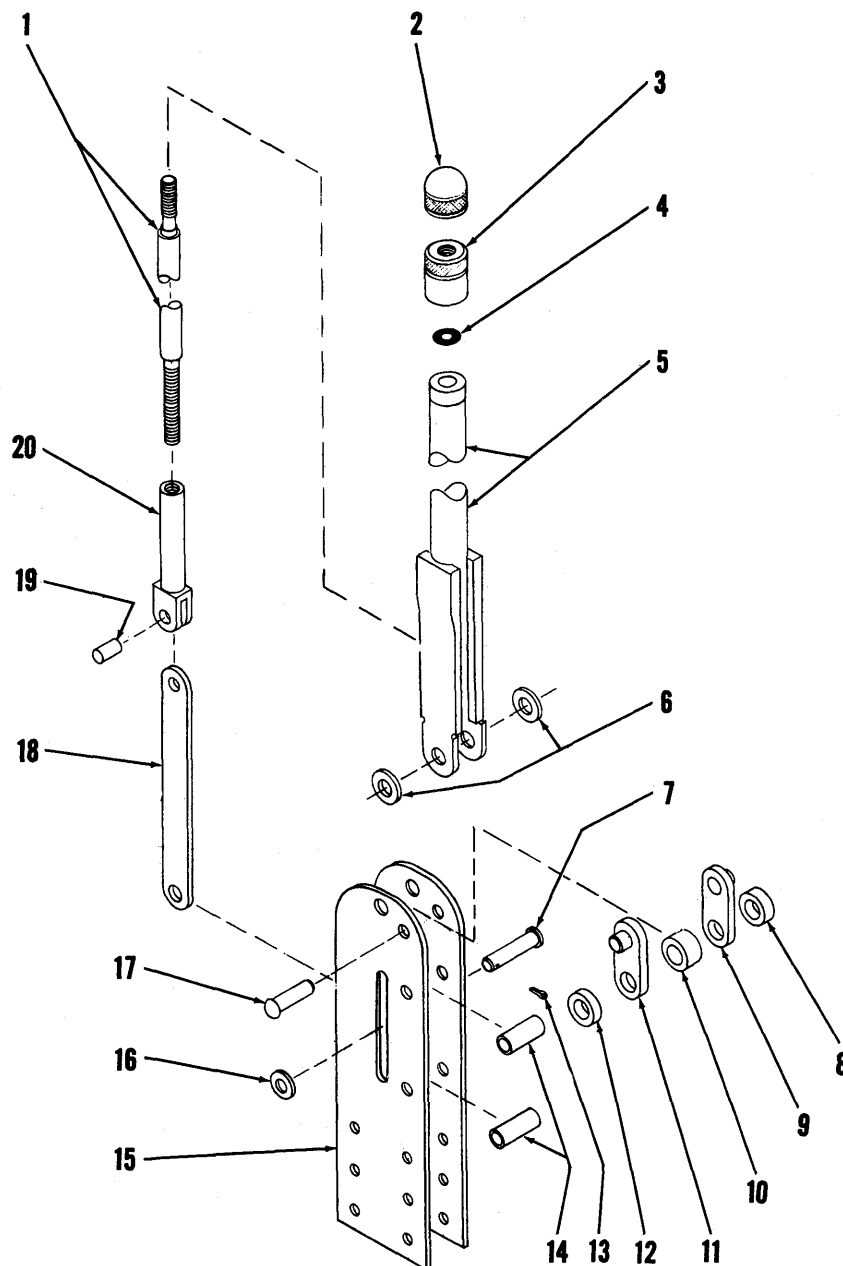
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE.

**BRAKE CONTROLS — PARKING**

For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.
1	18D-06	NUT, Lever Mounting	2
2	545006	SPACER, Lever Mounting	2
3	1513370	SPACER, Lever Mounting	2
4	18D-05	NUT, Cable to Lever	2
5	675872	SPACER, Cable to Lever	2
6	544512	CLAMP, Cable	1
7	645092	LINK, Cable Clamp	1
8	1518446	CABLE, Parking Brake	1
9	124111	BRACKET, Cable Mounting	1
10	645092	LINK, Cable Clamp	1
11	4F-06106	PIN, Cable Clevis	1
12	1F-312	COTTER, Clevis Pin	1
13	544512	CLAMP, Cable	1
14	23C-616	BOLT, Cable to Bracket	2
15	4E-06	LKWSHR, Cable to Bracket	2
16	24C-528	BOLT, Cable to Lever	2
17	24C-640	BOLT, Lever Mounting	2
18		BRAKE LEVER ASSY — See Index	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



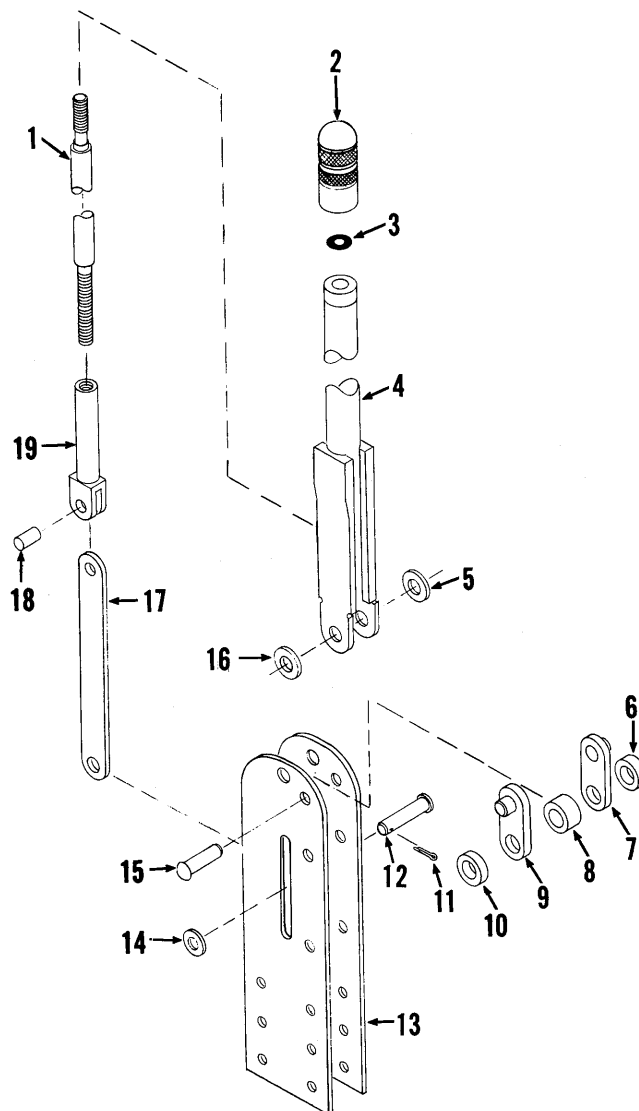
TS-3240

BRAKE LEVER ASSEMBLY — PARKING

For Serial: 425A101 thru 999

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	544998	LEVER ASSY (Inc. 1 thru 20)	1	11	862653	BRACKET, Pivot	1
1	866349	SCREW, Adjusting	1	12	862656	SPACER, Pivot Bracket	1
2	941227	CAP, Adjusting Knob	1	13	1F-312	COTTER, Link Pivot Pin	1
3	941226	BASE, Adjusting Knob	1	14	645095	SPACER, Mounting Bracket	2
4		OMIT		15	944969	BRACKET, Lever Mounting	2
5	866348	BODY, Brake Lever	1	16	619019	WASHER, Link Pivot Pin	1
6	619024	WASHER, Body to Bracket	2	17	944054	RIVET, Pivot Bracket	1
7	862738	PIN, Adjusting Screw Link Pivot	1	18	862652	LINK, Adjusting Screw	1
8	862656	SPACER, Pivot Bracket	1	19	941238	PIN, Link to Tube	1
9	862653	BRACKET, Pivot	1	20	944968	TUBE, Adjusting Screw	1
10	862655	SPACER, Pivot Bracket	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11445

BRAKE LEVER ASSEMBLY — PARKING**For Serial: 425B101 & After**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1511473	LEVER ASSY (Inc. 1 thru 19)	1	10	949466	SPACER, Body Mounting	1
1	949460	SCREW, Adjusting	1	11	1F-312	COTTER, Link Pivot Pin	1
2	949462	KNOB, Adjusting	1	12	949468	PIN, Adjusting Screw Link Pivot	1
3	25K-30014	O-RING	1	13	949469	BRACKET, Mounting	1
4	949461	LEVER BODY ASSY	1	14	551480	WASHER, Link Pivot Pin	1
5	949470	WASHER, Body to Bracket	1	15	941233	RIVET, Body to Bracket	1
6	949466	SPACER, Body Mounting	1	16	949470	WASHER, Body to Bracket	1
7	862653	BRACKET, Pivot	1	17	949465	LINK, Adjusting Screw	1
8	949467	SPACER, Body Mounting	1	18	949464	PIN, Link to Tube	1
9	862653	BRACKET, Pivot	1	19	949463	TUBE, Adjusting Screw	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



"C" GROUP
CONTENTS

Clips — Wiring, Pipe & Hose C 2

Cockpit & Horn Switch C 3

Converter Group:

 Converter Assembly — Torque C 5

 Converter Downstream Pressure Regulating Valve C 8

Cylinder Group:

 Cylinder Assembly — Boom C 9

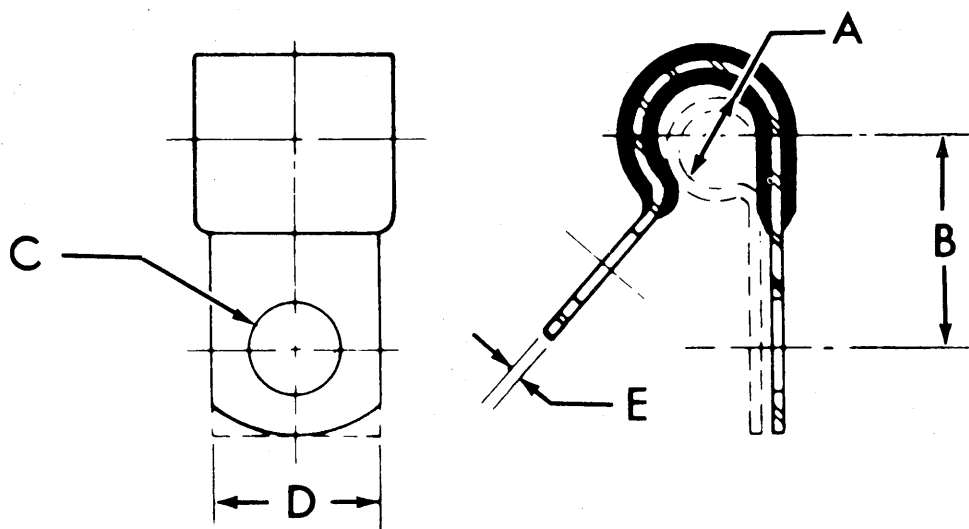
 Cylinder Assembly — Bucket C 12

 Cylinder Assembly — Steering C 14

CLIPS – WIRING, PIPE & HOSE

The following types of clips are used in connection with the various wiring, fuel, air and hydraulic piping systems employed in this unit. When replacing clips identification can be made by checking type and physical dimensions listed to obtain part number.

INSULATED CLIP



TS-5008

Item No.	PART NUMBER	A	B	C	D	E
1	30H-14	$\frac{1}{4}$	$1\frac{7}{32}$	$\frac{9}{32}$	$\frac{1}{2}$	.032
2	30H-16	$\frac{1}{4}$	$2\frac{1}{32}$	$1\frac{3}{32}$	$\frac{3}{4}$	.032
3	30H-23	$\frac{3}{8}$	$2\frac{3}{32}$	$1\frac{3}{32}$	$\frac{3}{4}$	.032
4	30H-31	$\frac{1}{2}$	$2\frac{5}{32}$	$1\frac{3}{32}$	$\frac{3}{4}$	.032
5	30H-32	$\frac{1}{2}$	$2\frac{7}{32}$	$1\frac{5}{32}$	$\frac{7}{8}$	.050
6	30H-35	$\frac{5}{16}$	$1\frac{3}{16}$	$1\frac{3}{32}$	$\frac{3}{4}$	.050
7	30H-38	$\frac{5}{8}$	$2\frac{7}{32}$	$1\frac{3}{32}$	$\frac{3}{4}$	.050
8	30H-50	$1\frac{5}{16}$	1	$1\frac{3}{32}$	$\frac{3}{4}$	.050

BRACKETS

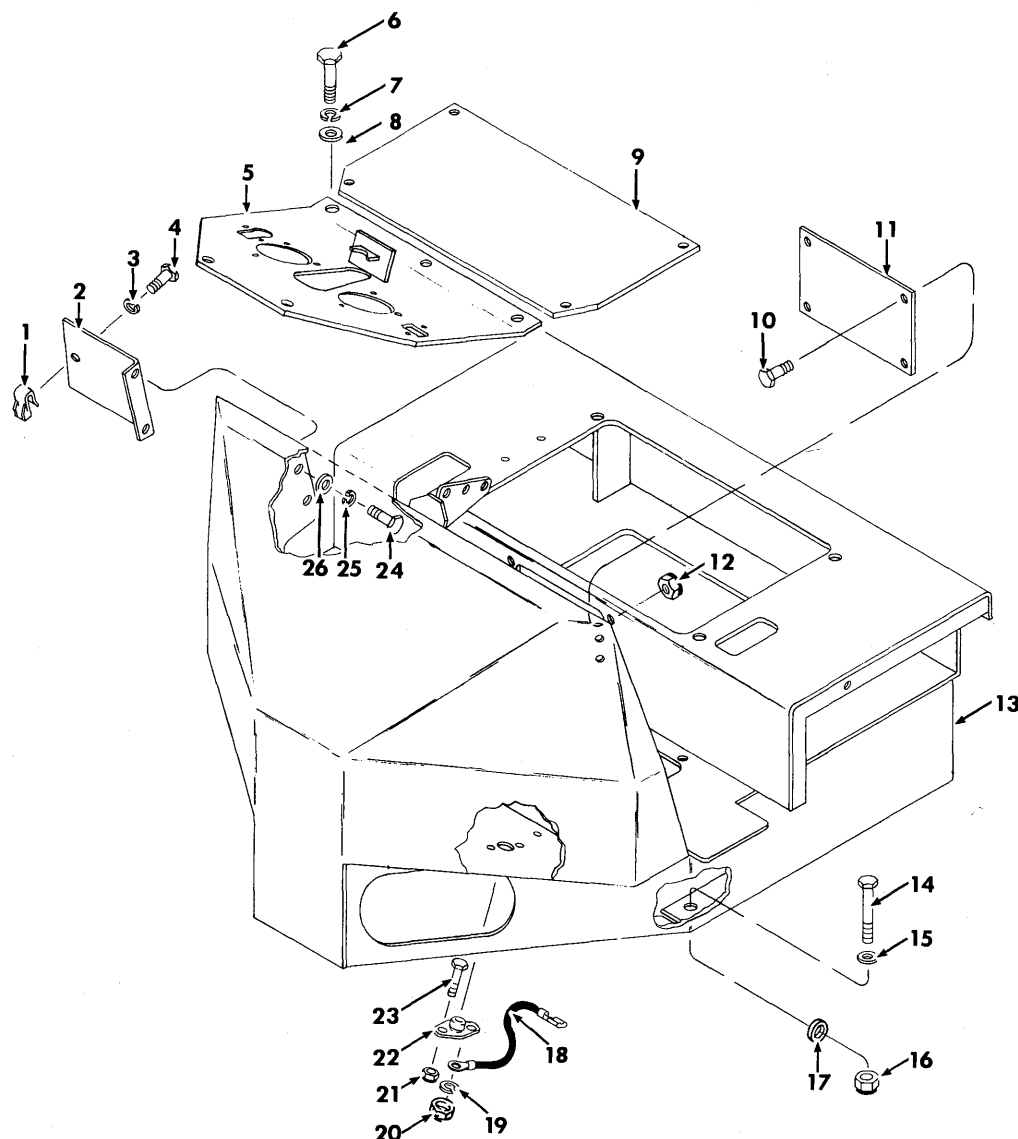
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1545184

† BRACKET, Clip to Engine 1

† Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



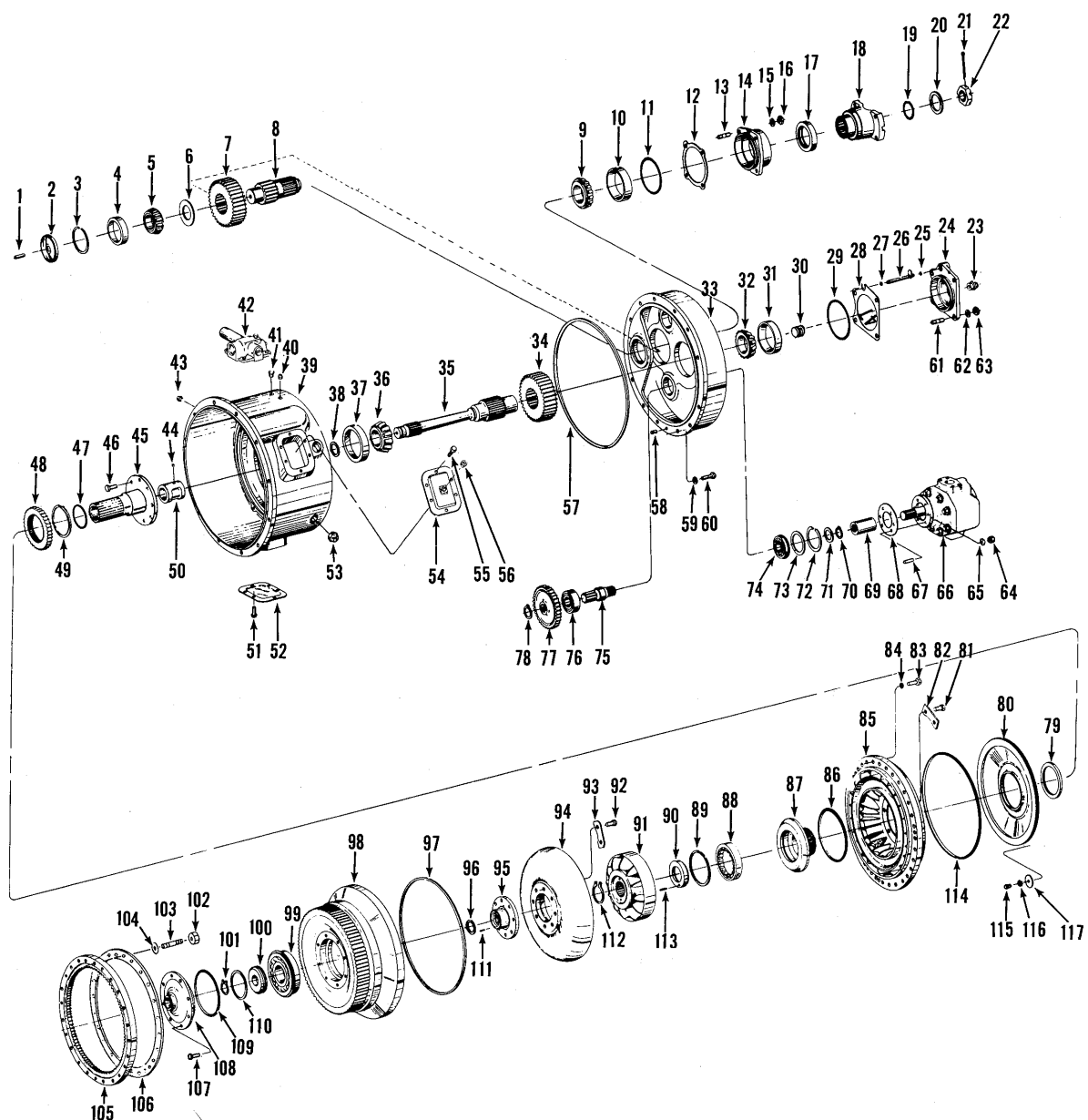
TS-11495

COCKPIT & HORN SWITCH

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	572729	CAGED NUT, Panel to Cockpit	1	13B	1514404	For Serial Group "B"	1
2	574026	PANEL, R.H.	1	14	24C-1248	BOLT, Cockpit Mounting	4
3	4E-06	LKWSHR, Panel to Cockpit	1	15	71D-12	BASE, Cockpit Mounting	4
4	23C-616	BOLT, Panel to Cockpit	1	16	70D-12	NUT, Cockpit Mounting	4
5	1545931	FLOORBOARD ASSY	1	17	25E-27	WASHER, Cockpit Mounting	4
6	23C-820	BOLT, Floorboard to Cockpit	9	18	1545471	WIRE, Horn to Switch	1
7	4E-08	LKWSHR, Floorboard to Cockpit	9	19	4E-06	LKWSHR, Wire to Switch	1
8	619029	WASHER, Floorboard to Cockpit	9	20	15D-06	NUT, Wire to Switch	1
9	1526152	COVER, Floorboard to Cockpit	1	21	18D-04	NUT, Switch to Cockpit	2
10	23C-612	BOLT, Heater Hole Cover	4	22	778570	FOOT SWITCH, Horn	1
11	1508950	COVER, Heater Hole	1	23	23C-416	BOLT, Switch to Cockpit	2
12	17D-3	LOCKNUT, Heater Hole Cover	4	24	23C-616	BOLT, Panel to Cockpit	2
13		COCKPIT	1	25	4E-06	LKWSHR, Panel to Cockpit	2
13A	1542667	For Serial Group "A"	1	26	656672	WASHER, Panel to Cockpit	2

Serial Group "A": 425A101 thru 999.
For Serial Group "B": 425B101 and After.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONVERTER ASSEMBLY — TORQUE

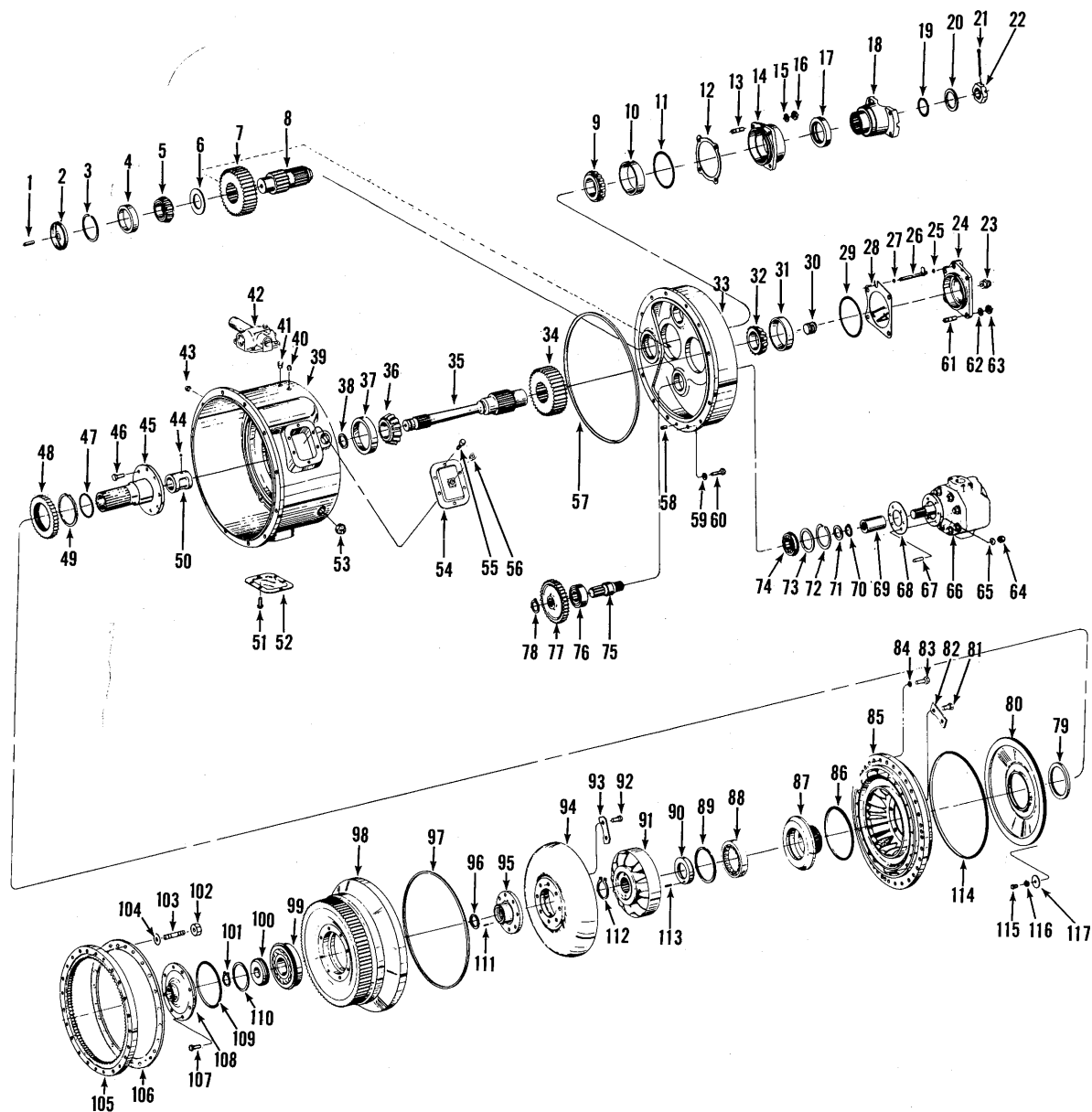
TS-11476

CONVERTER ASSEMBLY — TORQUE
For Serial: 425A101 thru 425B105

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	283433	CONVERTER ASSY, Torque (C-8602-20) (Inc. 1 thru 101, 106 thru 117)	1	27	25K-30012	O-RING, Lube Tube	1
1	222031	TUBE, Oil	1	28	218739	‡SHIM, Bearing Cap — .004"	—
2	222027	BAFFLE, Oil	1	28A	218740	‡SHIM, Bearing Cap — .007"	—
3	223900	RING, Front Bearing Retainer	1	28B	218741	‡SHIM, Bearing Cap — .010"	—
4	675543	CUP, Front Bearing	1	29	25K-40424	O-RING, Bearing Cap	1
5	731283	CONE, Front Bearing	1	30	16F-04	PLUG, Turbine Shaft	1
6	218738	SPACER, Front Bearing	1	31	710790	CUP, Bearing	1
7	218728	GEAR, Output Shaft (38T)	1	32	710791	CONE, Bearing	1
8	218733	SHAFT, Output	1	33	227064	COVER, Rear Housing	1
9	710791	CONE, Rear Bearing	1	34	218729	GEAR, Turbine Shaft (34T)	1
10	710790	CUP, Rear Bearing	1	35	218731	SHAFT, Turbine	1
11	25K-40420	O-RING, Bearing Cap	1	36	226027	CONE, Bearing	1
12	218742	‡SHIM, Bearing Cap — .004"	—	37	226026	CUP, Bearing	1
12A	218743	‡SHIM, Bearing Cap — .007"	—	38	223570	RING, Piston	1
12B	218744	‡SHIM, Bearing Cap — .010"	—	39	231592	HOUSING, Converter	1
13	204347	STUD, Bearing Cap	4	40	40K-02	PLUG, Pipe	1
14	218791	CAP, Bearing (Inc. 17)	1	41	16F-06	PLUG, Pipe	1
15	4E-08	LKWSHR, Bearing Cap Stud	4	42	—	VALVE, Pressure Regulator (See Index)	—
16	8D-08	NUT, Bearing Cap Stud	4	43	40K-02	PLUG, Pipe	1
17	225763	SEAL, Bearing Cap Oil	1	44	10J-08	BALL, Oil Distributor Sleeve Lock	1
18	217475	FLANGE, Output	1	45	218723	SUPPORT, Converter (Inc. 44, 50)	1
19	25K-60204	O-RING, Output Flange	1	46	8C-820	BOLT, Support to Housing	8
20	222181	WASHER, Output Flange	1	47	209673	RING, Piston	1
21	1F-632	COTTER, Flange Nut	1	48	222035	GEAR, Oil Pump Drive (37T)	1
22	201262	NUT, Output Flange	1	49	224009	RING, Gear Retaining	1
23	40K-04	PLUG, Pipe	1	50	218725	SLEEVE, Oil Distributor	1
24	218864	CAP, Bearing	1	51	208261	BOLT & LKWSHR, Inspection Cover	6
25	25K-30012	O-RING, Lube Tube	1	52	201398	COVER, Inspection	1
26	218737	TUBE, Lube	1	53	13F-20	PLUG, Pipe	4
				54	201398	COVER, Inspection	1
				55	208261	BOLT & LKWSHR, Inspection Cover	6
				56	16F-06	PLUG, Pipe	1
				57	218779	O-RING, Cover to Housing	1

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONVERTER ASSEMBLY — TORQUE

TS-11476

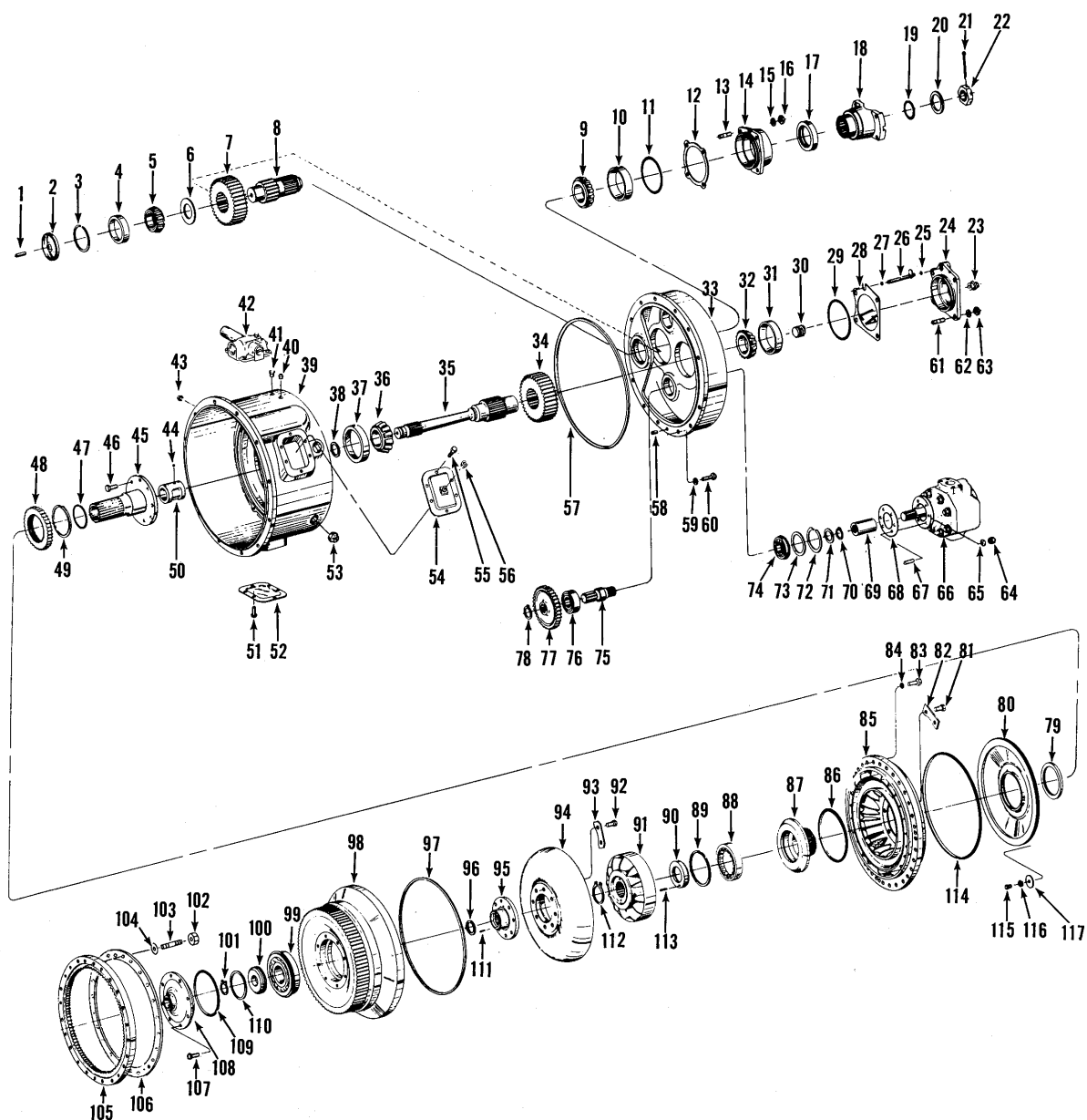
CONVERTER ASSEMBLY — TORQUE (Continued)**For Serial: 425A101 thru 425B105**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
58	214295	PIN, Cover to Housing Locating Dowel	1	89	223988	RING, Impeller Hub Bearing Retainer	1
59	4E-07	LKWSHR, Cover to Housing	12	90	218782	SPACER, Reaction Member	1
60	1C-722	BOLT, Cover to Housing	12	91	801006	MEMBER, Reaction (Inc. 90, 113)	1
61	204347	STUD, Bearing Cap	4	92	222223	BOLT, Turbine to Hub	8
62	4E-08	LKWSHR, Bearing Cap	4	93	222008	LOCKPLATE, Turbine to Hub	4
63	8D-08	NUT, Bearing Cap	4	94	222002	TURBINE	1
64	8D-06	NUT, Charging Pump Mounting	3	95	218753	HUB, Turbine	1
65	4E-06	LKWSHR, Charging Pump Mounting	3	96	223866	RING, Hub Retaining	1
66	450246	*PUMP, Converter Charging	1	97	218776	O-RING, Impeller to Cover	1
67	203253	STUD, Charging Pump Mounting	3	98	218755	COVER, Impeller	1
68	551906	GASKET, Charging Pump	1	99	225781	BEARING, Front	1
69	221992	SLEEVE, Charging Pump	1	100	218855	RETAINER, Bearing	1
70	224039	RING, Inner Washer Retaining	3	101	663834	RING, Bearing Retainer Retaining	1
71	100838	WASHER, Rear Bearing — Inner	3	102	230647	NUT, Ring Gear Mounting	24
72	223961	RING, Bearing Washer Retainer	3	103	229768	STUD, Ring Gear Mounting	24
73	222038	WASHER, Rear Bearing — Outer	3	104	228987	WASHER, Belleville (Cupped)	96
74	226025	BEARING, Pump Shaft Rear	3	105	226595	GEAR, Flywheel Ring	1
75	216095	SHAFT, Pump Drive	3	106	230594	RING, Ring Gear Mounting	1
76	225385	BEARING, Pump Shaft Front	3	107	8C-716	BOLT, Impeller Cover Cap	8
77	222037	GEAR, Pump Driven (35T)	3	108	218717	CAP, Impeller Cover	1
78	224036	RING, Driven Gear Retaining	3	109	60K-40608	O-RING, Impeller Cover Cap	1
79	214941	SEAL, Oil Baffle	1	110	211323	RING, Piston	1
80	218721	BAFFLE, Oil	1	111	221478	DOWEL, Turbine Hub Retaining	2
81	222221	BOLT, Impeller to Hub	8	112	711161	RING, Reaction Member Retaining	1
82	222019	LOCKPLATE, Impeller to Cover	4	113	302602	PIN, Reaction Member Spacer Roll	1
83	1C-724	BOLT, Impeller to Cover	32	114	218777	O-RING, Oil Baffle	1
84	4E-07	LKWSHR, Impeller to Cover	32	115	1C-612	BOLT, Oil Baffle	3
85	222017	IMPELLER	1	116	5E-06	LKWSHR, Oil Baffle	3
86	60K-40700	O-RING, Impeller Hub	1	117	616786	WASHER, Oil Baffle	3
87	222018	HUB, Impeller	1	118	23C-724	†BOLT, Cover Housing to Engine	10
88	225778	BEARING, Impeller Hub	1	119	4E-07	†LKWSHR, Cover Housing to Engine	10

*NOTE: When Converter Charging Pump replacement is required, only a new factory built and tested pump should be used. Proper operation of converter and transmission is dependent on an efficient charging pump. Damage possible by use of a field rebuilt pump can result in repair cost exceeding cost of new pump alone.

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONVERTER ASSEMBLY — TORQUE
For Serial: 425B106 & After

TS-11476

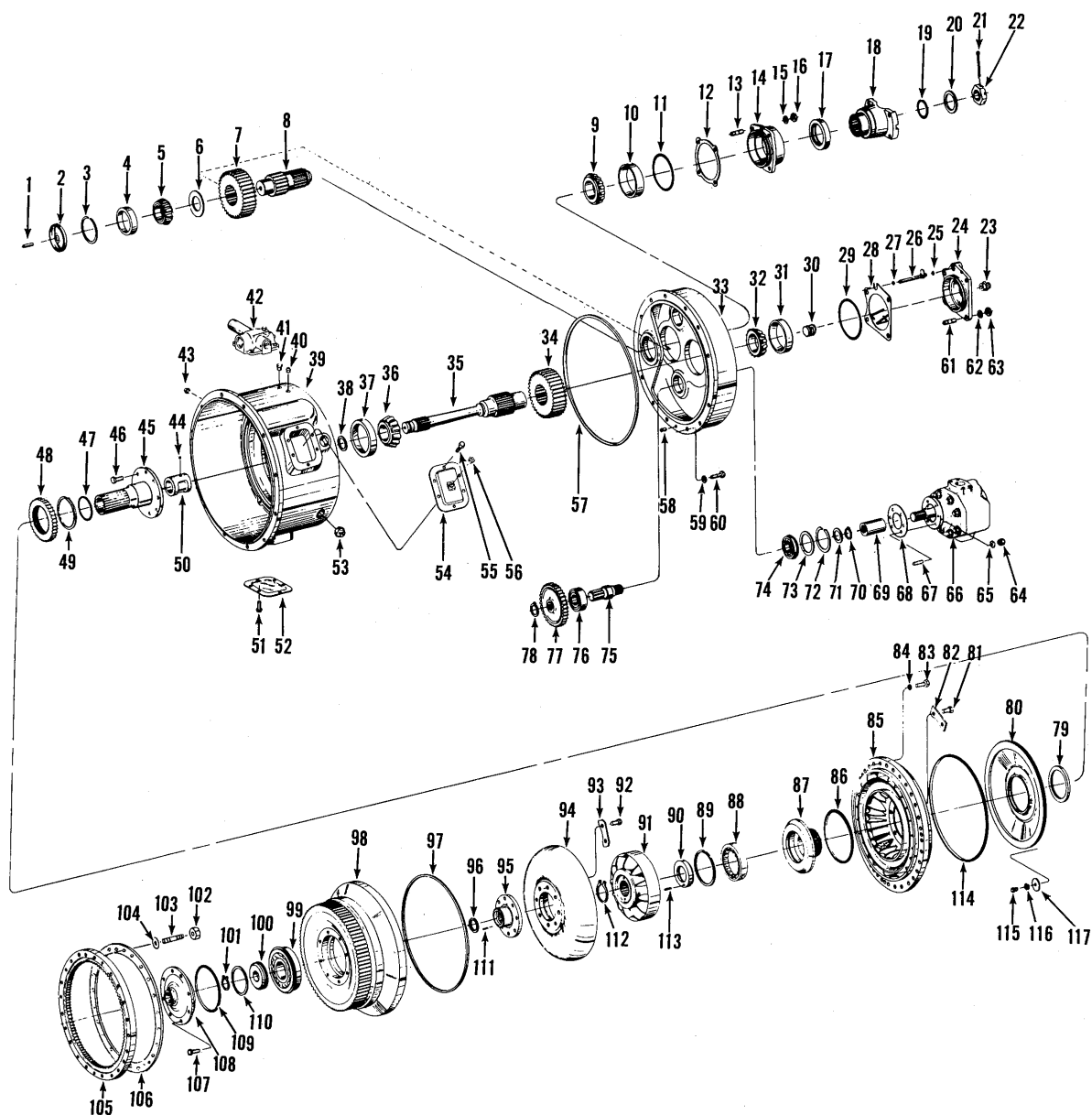
CONVERTER ASSEMBLY — TORQUE

For Serial: 425B106 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	284037	CONVERTER ASSY, Torque (C-8502-11) (Inc. 1 thru 117)	1	28A	218740	‡SHIM, Bearing Cap — .007	—
1	222031	TUBE, Oil	1	28B	218741	‡SHIM, Bearing Cap — .010	—
2	222027	BAFFLE, Oil	1	29	25K-40424	O-RING, Bearing Cap	1
3	223900	RING, Front Bearing Retaining	1	30	16F-04	PLUG, Turbine Shaft	1
4	675543	CUP, Front Bearing	1	31	710790	CUP, Bearing	1
5	731283	CONE, Front Bearing	1	32	710791	CONE, Bearing	1
6	218738	SPACER, Front Bearing	1	33	227064	COVER, Rear Housing	1
7	219418	GEAR, Output Shaft (41T)	1	34	219417	GEAR, Turbine Shaft	1
8	218733	SHAFT, Output	1	35	218731	SHAFT, Turbine	1
9	710791	CONE, Rear Bearing	1	36	226027	CONE, Bearing	1
10	710790	CUP, Rear Bearing	1	37	226026	CUP, Bearing	1
11	25K-40420	O-RING, Bearing Cap	1	38	223570	RING, Piston	1
12	218742	‡SHIM, Bearing Cap — .004	—	39	231592	HOUSING, Converter	1
12A	218743	‡SHIM, Bearing Cap — .007	—	40	16F-06	PLUG, Pipe	1
12B	218744	‡SHIM, Bearing Cap — .010	—	41	40K-04	PLUG, Pipe	1
13	204347	STUD, Bearing Cap	4	45	—	VALVE, Pressure Regulator — See Index	—
14	218791	CAP, Bearing (Inc. 17)	1	43	40K-02	PLUG, Pipe	1
15	4E-08	LKWSHR, Bearing Cap	4	44	10J-08	BALL, Oil Distributor Sleeve Lock	1
16	8D-08	NUT, Bearing Cap	4	45	218723	SUPPORT, Converter (Inc. 44, 50)	1
17	225763	SEAL, Bearing Cap Oil	1	46	8C-820	BOLT, Support to Housing	1
18	217475	FLANGE, Output	1	47	209673	RING, Piston	1
19	25K-60204	O-RING, Flange	1	48	233658	GEAR, Oil Pump Drive (35T)	1
20	222181	WASHER, Flange	1	49	224009	RING, Gear Retaining	1
21	1F-632	COTTER, Flange Nut	1	50	218725	SLEEVE, Oil Distributor	1
22	201262	NUT, Flange	1	51	208261	BOLT & LKWSHR, Inspection Cover	6
23	40K-04	PLUG, Pipe	1	52	201398	COVER, Inspection	1
24	218864	CAP, Bearing	1	53	13F-20	PLUG, Drain	4
25	25K-30012	O-RING, Lube Tube	1	54	201398	COVER, Inspection	1
26	218737	TUBE, Lube	1	55	208261	BOLT & LKWSHR, Inspection Cover	6
27	25K-30012	O-RING, Lube Tube	1	56	16F-06	PLUG, Pipe	1
28	218739	‡SHIM, Bearing Cap — .004	—	57	218779	O-RING, Cover to Housing	1

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONVERTER ASSEMBLY — TORQUE
For Serial: 425B106 & After

TS-11476

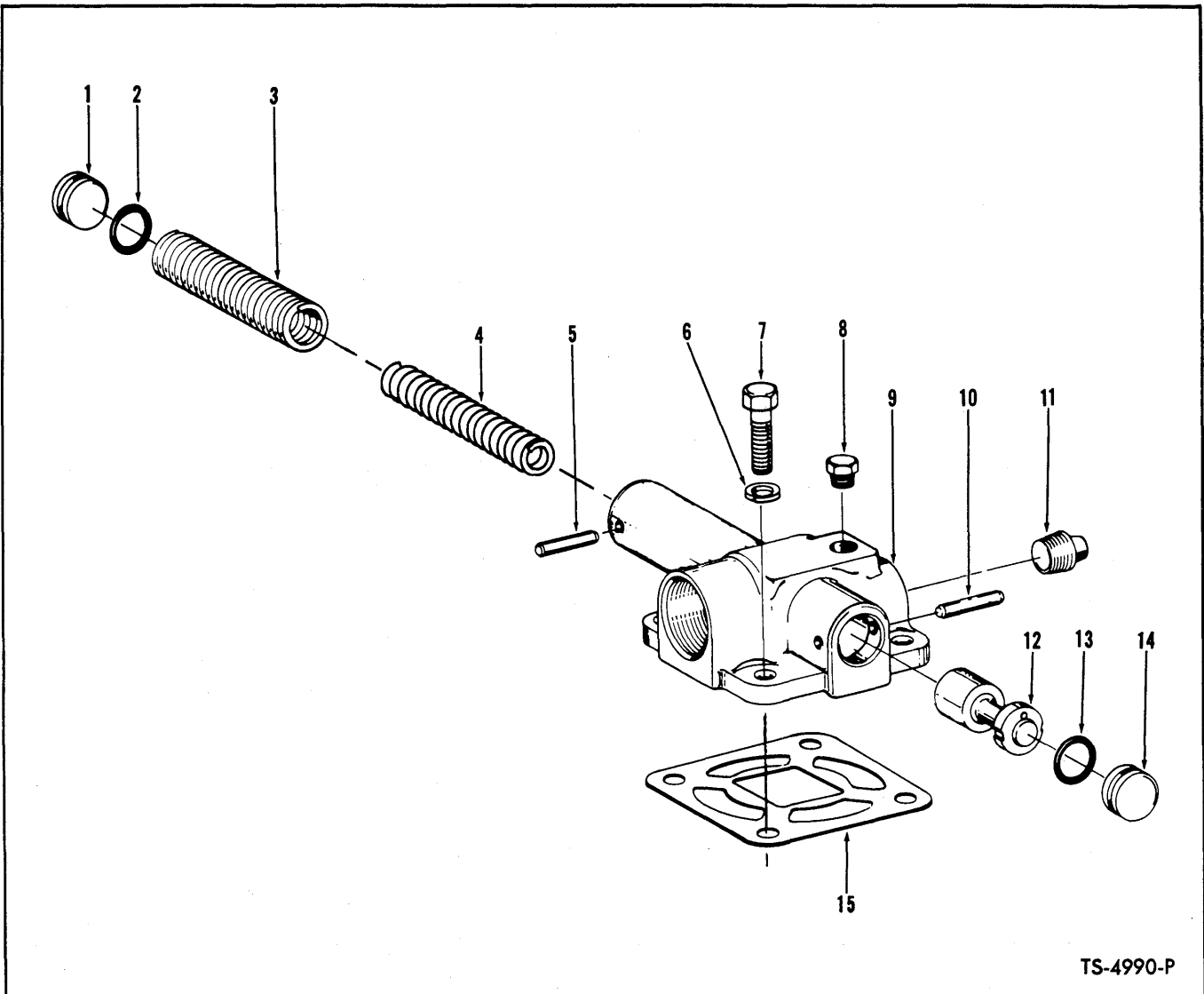
CONVERTER ASSEMBLY — TORQUE (Continued)
For Serial: 425B106 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
58	214295	PIN, Cover Dowel	1	89	223988	RING, Impeller Hub Bearing Retainer	1
59	4E-07	LKWSHR, Cover to Housing	12	90	218782	SPACER, Reaction Member	1
60	1C-722	BOLT, Cover to Housing	12	91	218859	REACTION MEMBER	1
61	204347	STUD, Bearing Cap	4	92	222223	BOLT, Turbine to Hub	8
62	4E-08	LKWSHR, Bearing Cap	4	93	222008	LOCKPLATE, Turbine to Hub	4
63	8D-08	NUT, Bearing Cap	4	94	222263	TURBINE	1
64	8D-06	NUT, Charging Pump Mounting	3	95	218753	HUB, Turbine	1
65	4E-06	LKWSHR, Charging Pump Mounting	3	96	223866	RING, Hub Retaining	1
66	450246	*PUMP, Converter Charging	1	97	218778	O-RING, Impeller to Cover	1
67	203253	STUD, Charging Pump Mounting	3	98	218870	COVER, Impeller	1
68	551906	GASKET, Charging Pump	1	99	225781	BEARING, Front	1
69	221992	SLEEVE, Charging Pump	1	100	218855	RETAINER, Bearing	1
70	224039	RING, Inner Washer Retaining	3	101	663834	RING, Bearing Retainer Retaining	1
71	100838	WASHER, Rear Bearing — Inner	3	102	230647	NUT, Ring Gear Mounting	24
72	223961	RING, Bearing Washer Retaining	3	103	229768	STUD, Ring Gear Mounting	24
73	222038	WASHER, Rear Bearing — Outer	3	104	228987	WASHER, Belleville	96
74	226025	BEARING, Pump Shaft — Rear	3	105	226595	GEAR, Flywheel Ring	1
75	216095	SHAFT, Pump Drive	3	106	230594	RING, Ring Gear Mounting	1
76	225385	BEARING, Pump Shaft — Front	3	107	8C-716	BOLT, Impeller Cover Cap	8
77	233657	GEAR, Pump Driven (37T)	3	108	218717	CAP, Impeller Cover	1
78	224036	RING, Driver Gear Retaining	3	109	60K-40608	O-RING, Impeller Cover Cap	1
79	214941	SEAL, Oil Baffle	1	110	211323	RING, Piston	1
80	218721	BAFFLE, Oil	1	111	221478	PIN, Turbine Hub Retaining Dowel	2
81	222221	BOLT, Impeller to Hub	8	112	711161	RING, Reaction Member Retaining	1
82	222019	LOCKPLATE, Impeller to Hub	4	113	302602	PIN, Reaction Member Spacer Roll	1
83	1C-724	BOLT, Impeller to Cover	32	114	218777	O-RING, Oil Baffle	1
84	4E-07	LKWSHR, Impeller to Cover	32	115	1C-612	BOLT, Oil Baffle	3
85	222265	IMPELLER	1	116	5E-06	LKWSHR, Oil Baffle	3
86	60K-40700	O-RING, Impeller Hub	1	117	616786	WASHER, Oil Baffle	3
87	222266	HUB, Impeller	1	118	23C-724	†BOLT, Converter Housing to Engine	10
88	225778	BEARING, Impeller Hub	1	119	4E-07	†LKWSHR, Converter Housing to Engine	10

†Not Illustrated

*NOTE: When Converter Charging Pump replacement is required, only a new factory built and tested pump should be used. Proper operation of converter and transmission is dependent on an efficient charging pump. Damage possible by use of a field rebuilt pump can result in repair cost exceeding cost of a new pump alone.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

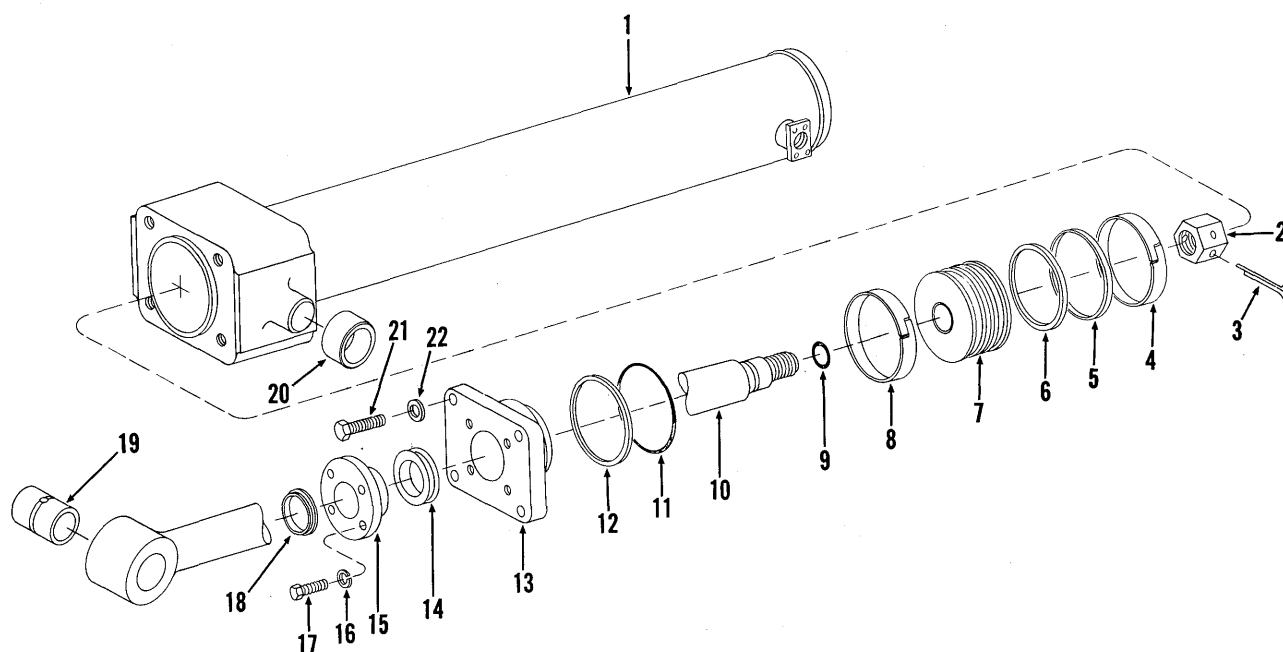


TS-4990-P

CONVERTER DOWNSTREAM PRESSURE REGULATING VALVE

Item No.	Part No.	Description	No. Req'd.
A	228499	VALVE ASSY (Inc. 1 thru 5, 8 thru 14)	1
1	222041	STOP, Piston	1
2	893267	"O" RING, Piston Stop	1
3	214668	SPRING, Pressure — Outer	1
4	227292	SPRING, Regulator — Inner	1
5	633157	PIN, Piston Stop Roll	1
6	4E-07	LKWSHR, Valve to Converter Housing	4
7	1C-722	BOLT, Valve to Converter Housing	4
8	40K-04	PLUG, Pressure Tap Pipe	1
9	227076	BODY, Pressure Regulating Valve	1
10	633157	PIN, Piston Stop Roll	1
11	13F-08	PLUG, Pipe	1
12	228500	PISTON, Regulating Valve	1
13	893267	"O" RING, Piston Stop	1
14	222041	STOP, Piston	1
15	227087	GASKET, Valve to Converter Housing	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10572

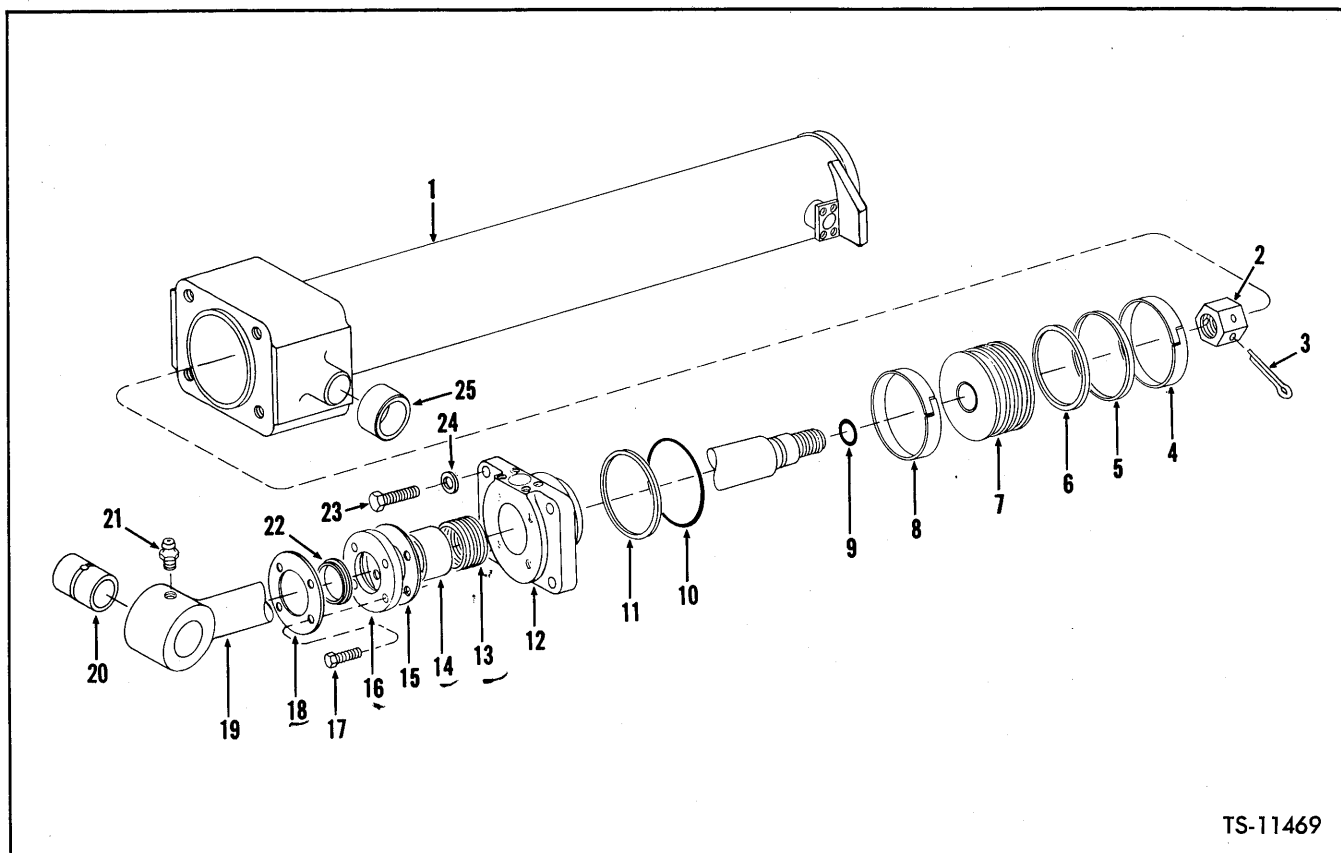
CYLINDER ASSEMBLY — BOOM — 9"**For Serial: 425A101 thru 360**

Item No.	Part No.	Description	No. Req'd.
A	1537215	*BOOM CYLINDER ASSY — L.H. (Inc. 1 thru 22)	1
B	1537216	**BOOM CYLINDER ASSY — R.H. (Inc. 1 thru 22)	1
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1	1537212	CYLINDER (Inc. 20)	1
2	1512200	NUT, Piston Rod	1
3	1F-1080	COTTER, Piston Rod Nut	1
4	1503016	RING, Piston Wear	1
5	1503022	RING, Piston Outer Seal	1
6	1503470	RING, Piston Inner Seal	1
7	1503030	PISTON	1
8	1503016	RING, Piston Wear	1
9	25K-60212	O-RING, Piston Rod	1
10	1514373	ROD, Piston (Inc. 19)	1
11	25K-80816	O-RING, Cylinder Cap	1
12	1514010	RING, Cylinder Cap Back-Up	1
13	1537208	CAP, Cylinder	1
14	1537218	SEAL, Piston Rod	1
15	1537202	GLAND, Packing	1
16	4E-08	LKWSHR, Seal Retainer	4
17	24C-828	BOLT, Seal Retainer	4
18	1657101	WIPER, Piston Rod	1
19	588612	BUSHING, Piston Rod	1
20	1537201	BUSHING, Cylinder	2
21	24C-1656	BOLT, Cylinder Cap	4
22	660116	WASHER, Cylinder Cap	4

*NOTE: For replacement use 1511408.

**NOTE: For replacement use 1511407.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



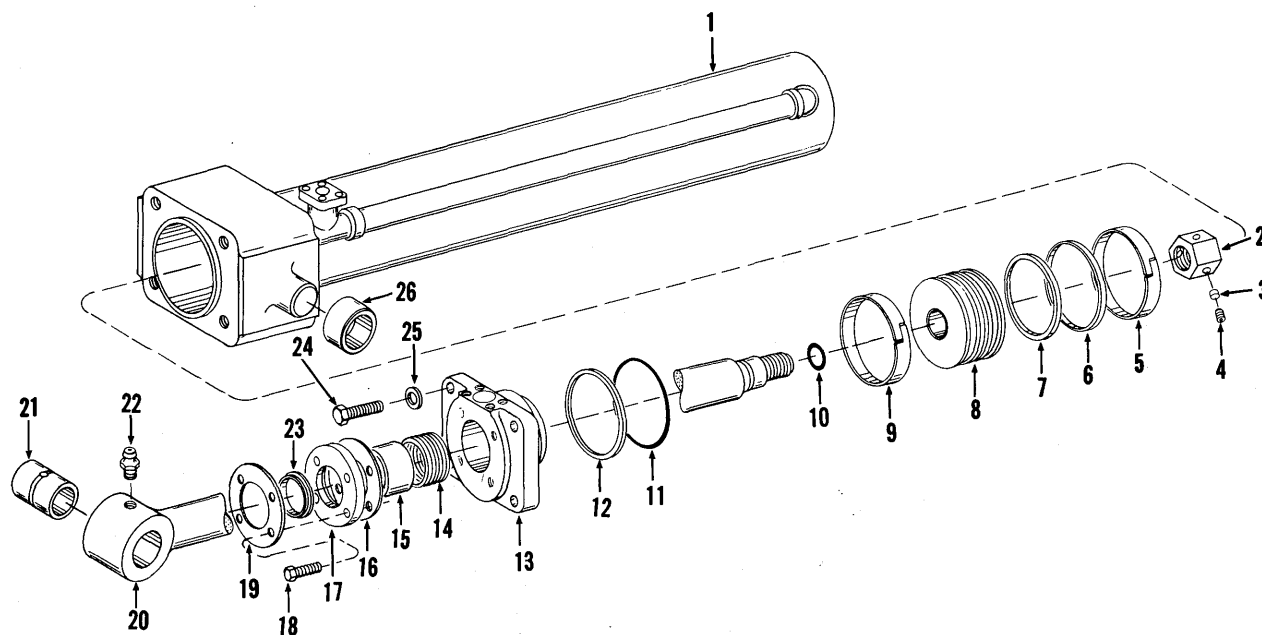
TS-11469

CYLINDER ASSEMBLY — BOOM — 9"

For Serial: 425A361 thru 999

Item No.	Part No.	Description	No. Req'd.
A	1511408	BOOM CYLINDER ASSEMBLY — L.H. (Inc. 1 thru 25)	1
B	1511407	BOOM CYLINDER ASSEMBLY — R.H. (Inc. 1 thru 25)	1
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1	1537212	CYLINDER (Inc. 26)	1
2	1514705	NUT, Piston Rod	1
3	1F-1080	COTTER, Piston Rod Nut	1
4	1503016	RING, Piston Wear	1
5	1503022	RING, Outer Seal	1
6	1503470	RING, Inner Seal	1
7	1503030	PISTON	1
8	1503016	RING, Piston Wear	1
9	25K-60212	O-RING, Piston Rod	1
10	1512910	O-RING, Cylinder Cap	1
11	1514010	RING, Cylinder Cap Back-Up	1
12	1537208	CAP, Cylinder	1
13	1511378	PACKING	1
14	1511879	BUSHING	1
15	1511385	SPACER, Flange	4
16	1511383	FLANGE	1
17	1514596	BOLT, Flange	4
18	1511386	RETAINER, Wiper	1
19	1514373	ROD, Piston (Inc. 20)	1
20	588612	BUSHING, Piston Rod	1
21	10H-25	FITTING, Piston Rod Grease	1
22	1549298	WIPER, Piston Rod	1
23	18C-1656	BOLT, Cylinder Cap	4
24	660116	WASHER, Cylinder Cap	4
25	1537201	BUSHING, Cylinder	2

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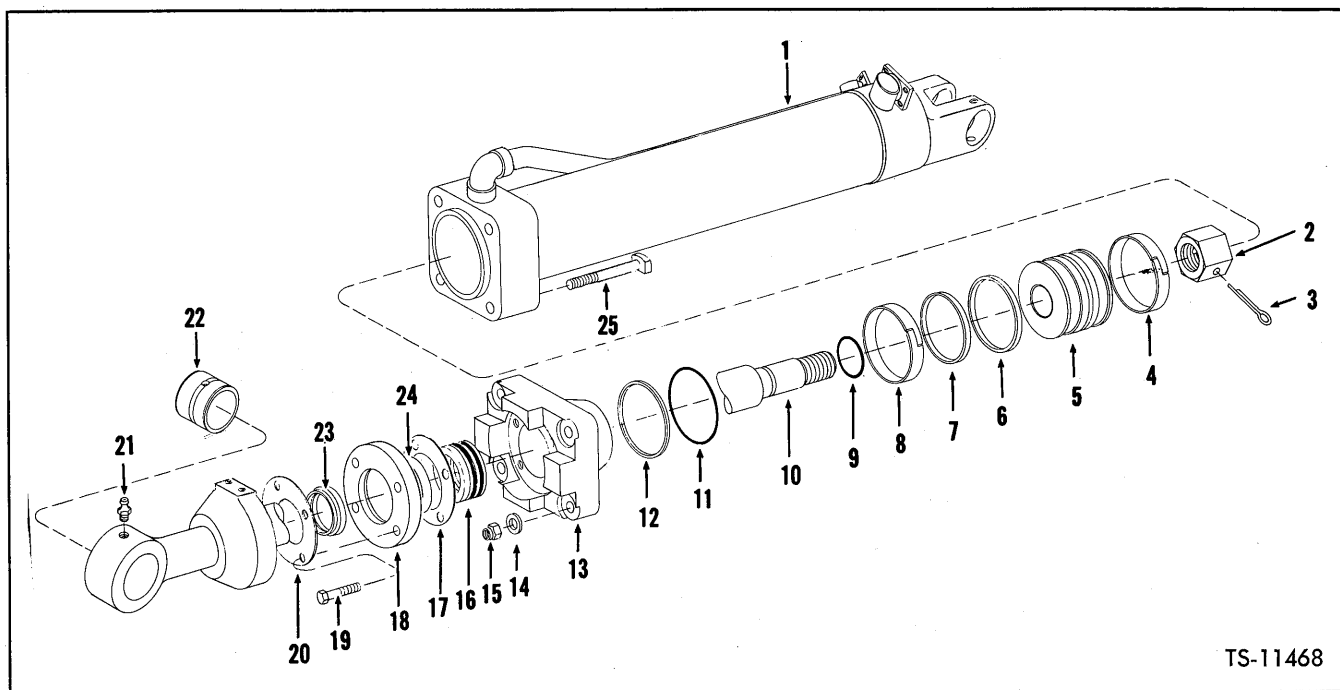
TS-11518 B

CYLINDER ASSEMBLY — BOOM — 9"

For Serial: 425B101 & After

Item No.	Part No.	Description	No. Req'd.
A	1512294	CYLINDER ASSEMBLY (Inc. 1 thru 21, 23 thru 26)	2
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1	1512515	CYLINDER (Inc. 26)	1
2	1513206	NUT, Piston Rod	1
3	1512368	INSERT, Locking	2
4	1513022	SET SCREW	2
5	1503016	RING, Piston Wear	1
6	1503022	RING, Outer Seal	1
7	1503470	RING, Inner Seal	1
8	1513208	PISTON	1
9	1503016	RING, Piston Wear	1
10	25K-60224	O-RING, Piston Rod	1
11	1512910	O-RING, Cylinder Cap	1
12	1514010	RING, Cylinder Cap Back-Up	1
13	1537208	CAP, Cylinder	1
14	1511378	PACKING	1
15	1511879	BUSHING	1
16	1511385	SPACER	4
17	1511383	FLANGE	1
18	1514596	BOLT, Flange	4
19	1511386	RETAINER, Wiper	1
20	1512295	ROD, Piston (Inc. 21)	1
21	588612	BUSHING, Piston Rod	1
22	10H-25	FITTING, Piston Rod Grease	1
23	1549298	WIPER, Piston Rod	1
24	18C-1656	BOLT, Cylinder Cap	4
25	1513789	WASHER, Cylinder Cap	4
26	1537201	BUSHING	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11468

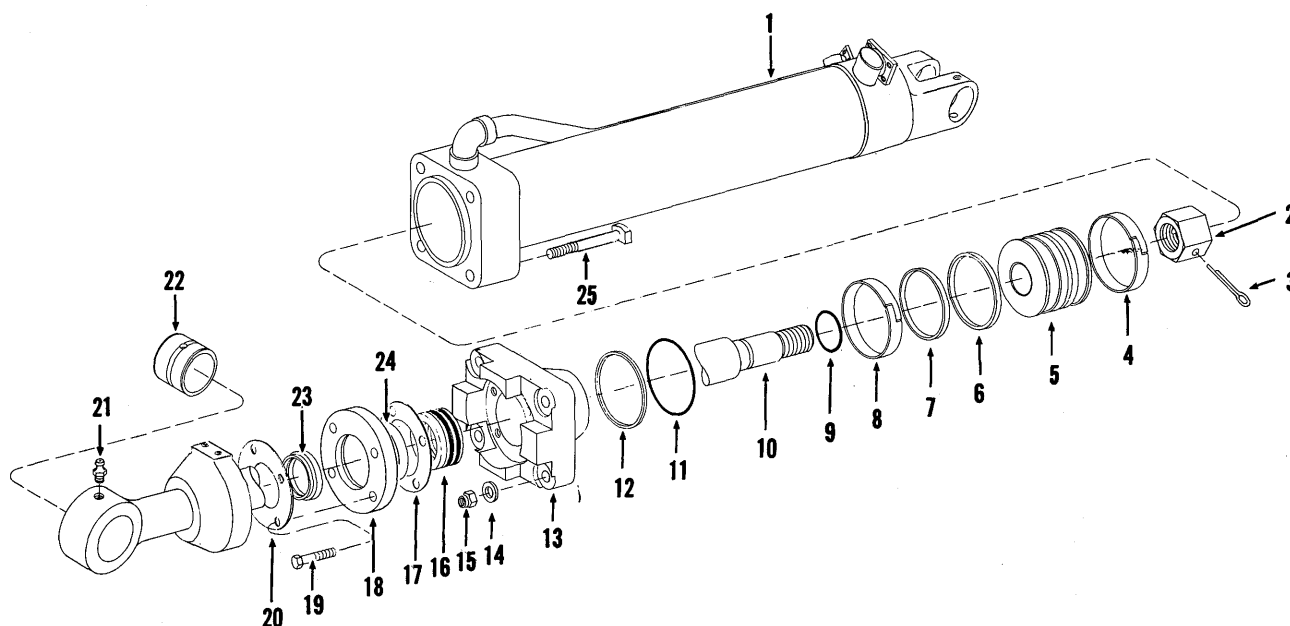
CYLINDER ASSEMBLY — BUCKET — 7"**For Serial: 425A101 thru 999**

Item No.	Part No.	Description	No. Req'd.
A		CYLINDER ASSEMBLY (Inc. 1 thru 20, 22 thru 25)	
B	947456	For Serial Group "A"	1
C	1511406	For Serial Group "B"	1
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1		CYLINDER, Bucket	
1A	1509391	For Serial Group "A"	1
1B	1512190	For Serial Group "B"	1
2	1514650	NUT, Piston Rod	1
3	1F-1068	COTTER, Piston Rod Nut	1
4	1503014	RING, Piston Wear	1
5	1503028	PISTON	1
6	1503020	RING, Piston Outer Seal	1
7	1503468	RING, Piston Inner Seal	1
8	1503014	RING, Piston Wear	1
9	25K-60120	O-RING, Piston Rod	1
10	1509394	ROD, Piston (Inc. 22)	1
11	1512908	O-RING, Cylinder Cap	1
12	1514008	RING, Back-Up	1
13	1511942	CAP, Cylinder	1
14	1534237	WASHER, Cylinder Cap	4
15	18D-14	NUT, Cylinder Cap	4
16	1511229	PACKING	1
17	1511230	SPACER, Flange	4
18	1511231	FLANGE	1
19	1514633	BOLT, Plate	4
20	1510142	PLATE, Wiper & Flange Retaining	1
21	10H-25	FITTING, Piston Rod Grease	1
22	588619	BUSHING, Piston Rod	1
23	1542646	WIPER, Piston Rod	1
24	1511232	SLEEVE	1
25	1537344	BOLT, Cylinder Cap	4

Serial Group "A": 425A101 thru 316, 318 thru 325, 327 thru 330, 332 thru 336.

Serial Group "B": 425A317, 326, 331, 337 thru 999.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



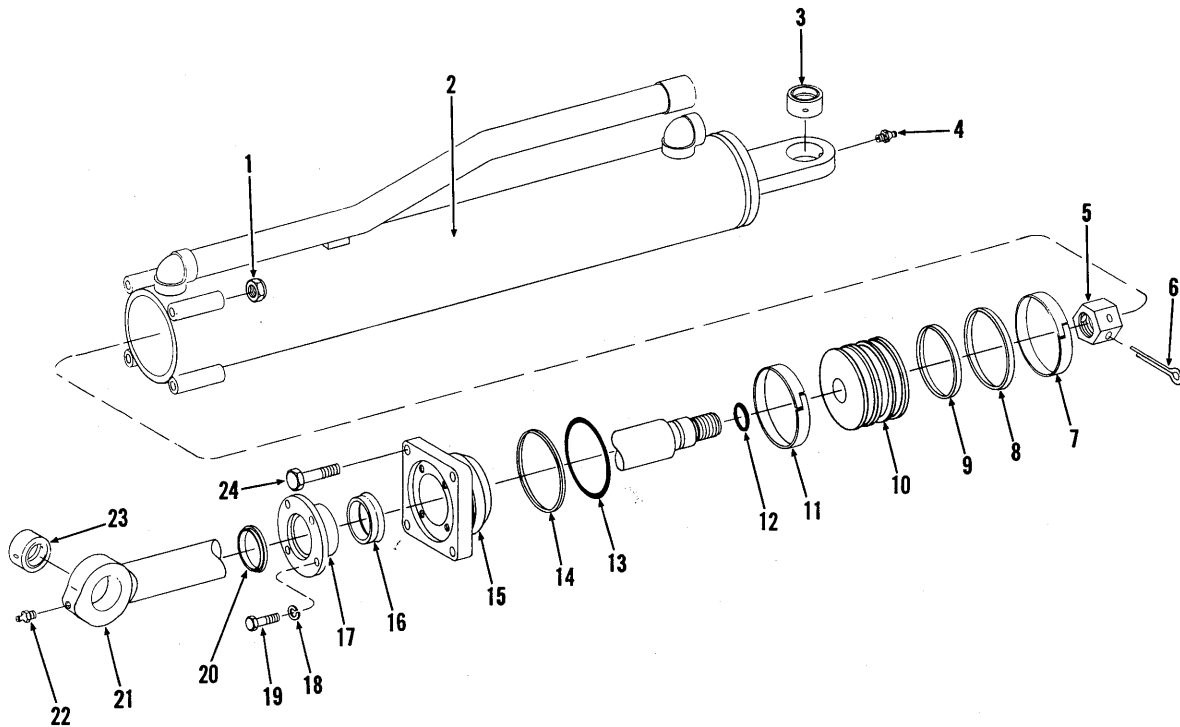
TS-11468

CYLINDER ASSEMBLY — BUCKET — 7"**For Serial: 425B101 & After**

Item No.	Part No.	Description	No. Req'd.
A	1513815	CYLINDER ASSEMBLY (Inc. 1 thru 20, 22 thru 25A)	—
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1	1513810	CYLINDER, Bucket	1
2	1513540	NUT, Piston Rod	1
3	1F-1072	COTTER, Piston Rod Nut	1
4	1503014	RING, Wear	1
5	1513542	PISTON	1
6	1503020	RING, Outer Seal	1
7	1503468	RING, Inner Seal	1
8	1503014	RING, Wear	1
9	25K-60204	O-RING, Piston Rod	1
10	1513802	ROD, Piston (Inc. 22)	1
11	1512908	O-RING, Cylinder Cap	1
12	1514008	RING, Cylinder Cap Back-Up	1
13	1513808	CAP, Cylinder	1
14	1534237	WASHER, Cylinder Cap	4
15	68D-14	NUT, Cylinder Cap	4
16	1511229	PACKING	1
17	1511230	SPACER, Flange	1
18	1511231	FLANGE	1
19	1514633	BOLT, Plate	4
20	1510142	PLATE, Wiper & Flange Relay	1
21	10H-25	FITTING, Piston Rod Grease	1
22	588619	BUSHING, Piston Rod	1
23	1542646	WIPER, Piston Rod	1
24	1511232	SLEEVE	1
25	1518865	BOLT, Cylinder Cap	4
25A	1534237	†WASHER, Cylinder Cap	4

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10609

CYLINDER ASSEMBLY — STEERING — 5 1/4"

Item No.	Part No.	Description	No. Req'd.
A	(1538181) <i>1511749</i>	CYLINDER ASSY (Inc. 1, 2, 5 thru 21, 24)	2
NOTE: Two (2) Cylinders used per Machine—Quantities listed below are for One (1) Cylinder.			
1	68D-10	NUT, Cylinder Cap	4
2	1538180	CYLINDER	1
3	713418	BUSHING, Cylinder	1
4	11H-15	FITTING, Cylinder Grease	1
5	1514735	NUT, Piston Rod	1
6	1F-860	COTTER, Piston Rod Nut	1
7	1503033	RING, Piston Wear	1
8	1503019	RING, Piston Outer Seal	1
9	1503466	RING, Piston Inner Seal	1
10	1503027	PISTON	1
11	1503033	RING, Piston Wear	1
12	25K-40120	O-RING, Piston Rod	1
13	1512906	O-RING, Cylinder Cap	1
14	1514006	RING, Back-Up	1
15	1538179	CAP, Cylinder	1
16	1538171	SEAL, Piston Rod	1
17	1538176	GLAND, Packing	1
18	4E-06	LKWSHR, Seal Retaining	4
19	24C-624	BOLT, Seal Retaining	4
20	1657092	WIPER, Piston Rod	1
21	1538178	ROD, Piston	1
22	11H-15	FITTING, Piston Rod Grease	1
23	713418	BUSHING, Piston Rod	1
24	24C-1080	BOLT, Cylinder Cap	1

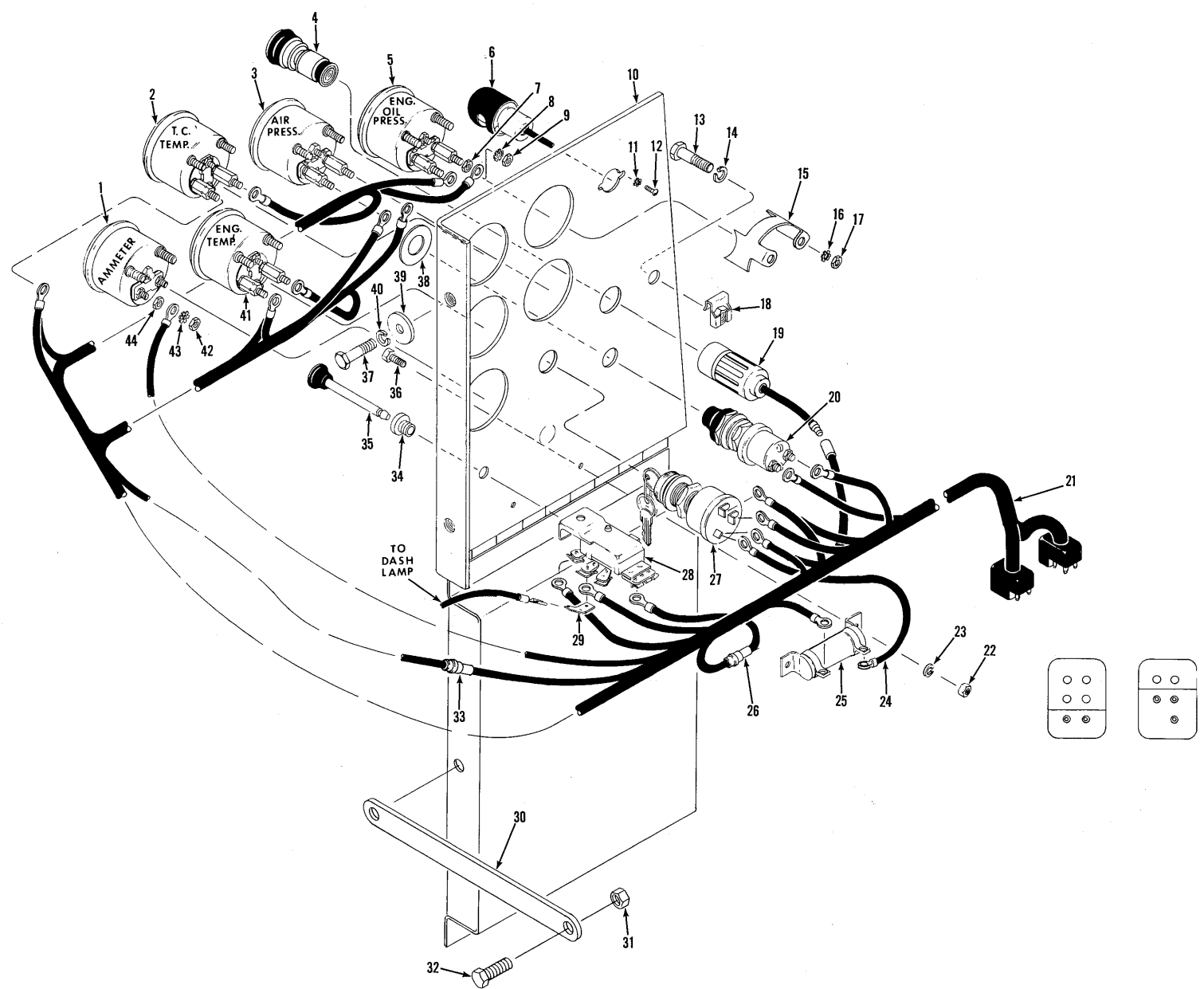
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**"E" GROUP
CONTENTS****Electrical Group:**

Electrical Gauges and Instrument Panel	E3
Electrical Wiring and Cables	E5
Electrical Wiring Diagram	E9
Batteries, Battery Box and Hold Down	E12

Engine Group:

Engine Accessories	E13
Engine Accessories and Support Parts	E14
Engine Air Cleaner and Connections	E15
Engine Controls	E16
Engine Exhaust System	E17



ELECTRICAL GAUGES & INSTRUMENT PANEL

TS-9914

ELECTRICAL GAUGES & INSTRUMENT PANEL

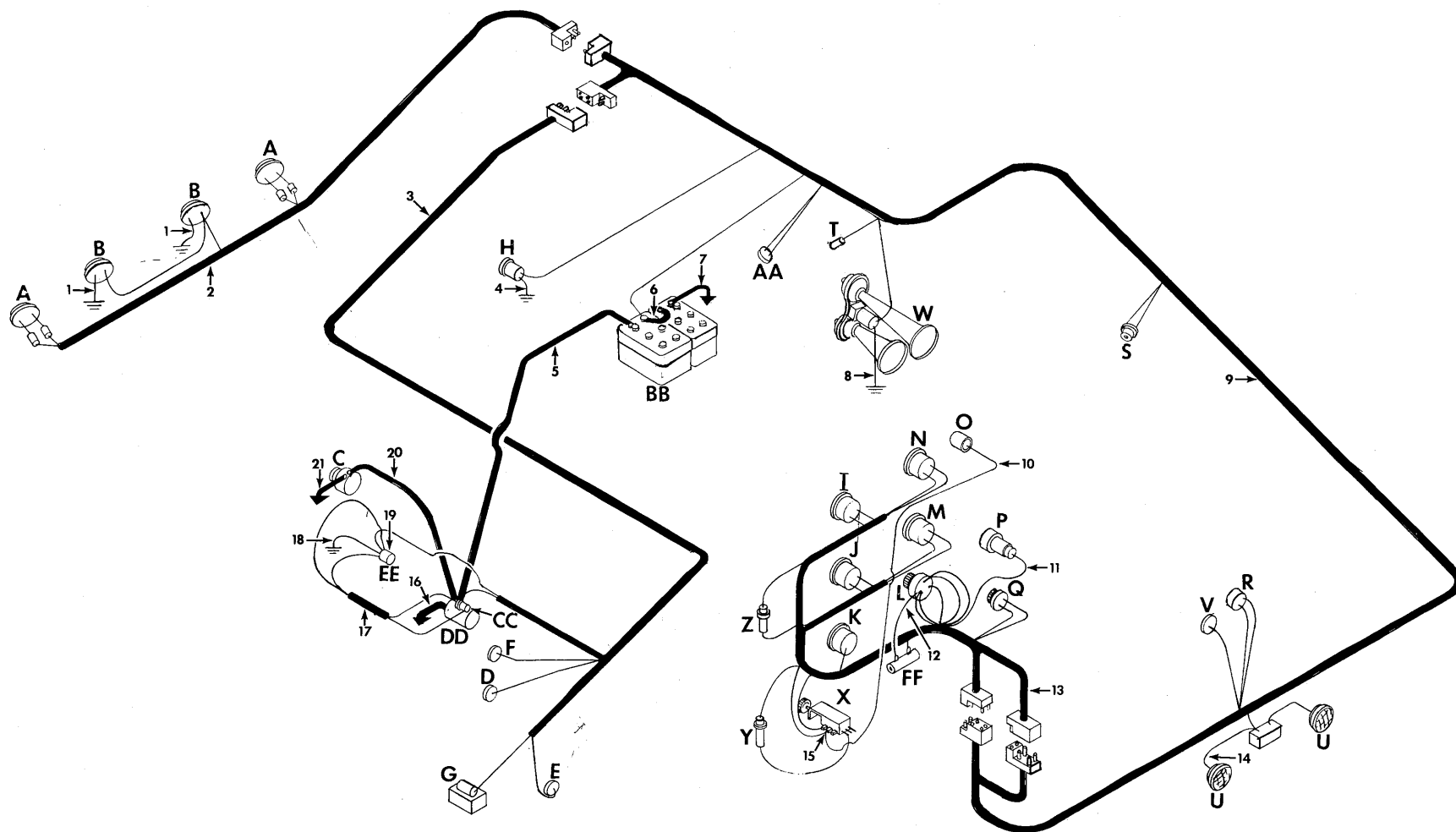
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	949286	AMMETER	1	22	12D-6	NUT, Resistor Mounting	2
2	947254	GAUGE, Torque Converter Temp.	1	23	17E-6	LKWSHR, Resistor Mounting	2
3	947250	GAUGE, Air Pressure	1	24	663579	WIRE, Ignition	1
4	944803	ELEMENT, Lighter	1	25	556489	RESISTOR, Voltage	1
5	948131	GAUGE, Engine Oil Pressure	1	26	611074	FUSE — 20 Amp.	1
6	574276	LAMP, Dash	1	27	573548	SWITCH, Ignition	1
6A	945055	†BULB, Dash Lamp	1	28	550741	SWITCH, Light	1
7	12D-6	NUT, Gauge Terminal	5	29	574275	TAB, Connecting	1
8	12E-6	LKWSHR, Gauge Terminal	5	30	1544614	BRACKET, Cover Support	1
9	12D-6	NUT, Gauge Terminal	5	31	18D-05	NUT, Bracket to Cockpit	1
10	1544683	PANEL, Instrument	1	32	23C-816	BOLT, Bracket to Cockpit	1
11	12E-6	LKWSHR, Dash Lamp Mounting	2	33	571021	FUSE — ¾ Amp.	1
12	18G-606	SCREW, Dash Lamp Mounting	2	34	550743	BUSHING, Light Switch	1
13	23C-616	BOLT, Instrument Panel Mounting	1	35	550742	ROD, Light Switch	1
14	4E-06	LKWSHR, Instrument Panel Mounting ..	1	36	85G-608	SCREW, Resistor Mounting	2
15	1534136	CLAMP, Gauge Mounting	5	37	23C-616	BOLT, Instrument Panel Mounting	2
16	12E-10	LKWSHR, Clamp to Gauge	10	38	547237	DISC, Starter Button	1
17	14D-10	NUT, Clamp to Gauge	10	39	656672	WASHER, Instrument Panel Mounting	2
18	572729	CAGED NUT, Instrument Panel	1	40	4E-06	LKWSHR, Instrument Panel Mounting ..	2
19	549024	RECEPTACLE, Lighter (Inc. 19A)	1	41	947252	GAUGE, Engine Temperature	1
19A	944804	†FUSE, Lighter	1	42	12D-6	NUT, Gauge Terminal	2
20	600259	BUTTON, Starter Push (Inc. 20A)	1	43	12E-6	LKWSHR, Gauge Terminal	3
20A	857420	†BOOT, Starter Push Button Rubber	1	44	12D-6	NUT, Gauge Terminal	1
21	1513293	HARNESS, Instrument Wiring (Inc. 26, 33)	1				

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TS-11597 B

ELECTRICAL WIRING & CABLES
For Serial: 425A101 thru 425A360



ELECTRICAL WIRING & CABLES

For Serial: 425A101 thru 425A360

No. Item	No. Part	Description	No. Req'd.
1	540882	WIRE, Back-up Lamp to Ground	2
2	1542813	WIRE HARNESS, Rear Lights	1
3	1542814	WIRE HARNESS, Engine	1
4	558960	WIRE, Hourmeter to Ground	1
5	1510729	CABLE, Battery to Starter	1
6	529359	CABLE, Battery to Battery	1
7	1547130	CABLE, Battery to Ground	1
8	1523329	WIRE, Horn to Ground	1
9	1542816	WIRE HARNESS, Main	1
10	-----	WIRE, Dash Lamp (Part of Dash Lamp)	1
11	-----	WIRE, Lighter to Harness (Part of Lighter)	1
12	630292	WIRE, Resistor to Ignition Switch	1
13	1504605	WIRE HARNESS, Instrument Panel	1
14	1542815	WIRE HARNESS, Front Lights	1
15	574275	CONNECTOR, Light Switch to Wire	1
16	532549	CABLE, Starter to Ground	1
17	1530361	WIRE, Solenoid to Solenoid	1
18	543483	WIRE, Solenoid to Ground	1
19	1529233	SOLENOID	1
20	1538211	WIRE, Starter to Alternator	1
21	1509033	WIRE, Alternator to Ground	1

A — Stop and Tail Lamps

B — Back-up Lamps

C — Alternator

D — Engine Oil Pressure Sender

E — Engine Temperature Sender

F — Converter Temperature Sender

G — Fuel Solenoid

H — Hourmeter

I — Converter Temperature Gauge

J — Engine Temperature Gauge

K — Voltmeter

L — Ignition Switch

M — Air Pressure Gauge

N — Engine Oil Pressure Gauge

O — Dash Lamp

P — Lighter

Q — Starter Button

R — Stop Light Switch

S — Horn Switch

T — Heater Connector

U — Headlamps

V — Air Pressure Sender

W — Horn

X — Light Switch

Y — 20 Amp Fuse

Z — ¾ Amp Fuse

AA — Neutral Start Switch

BB — Batteries

CC — Starter Solenoid

DD — Starter

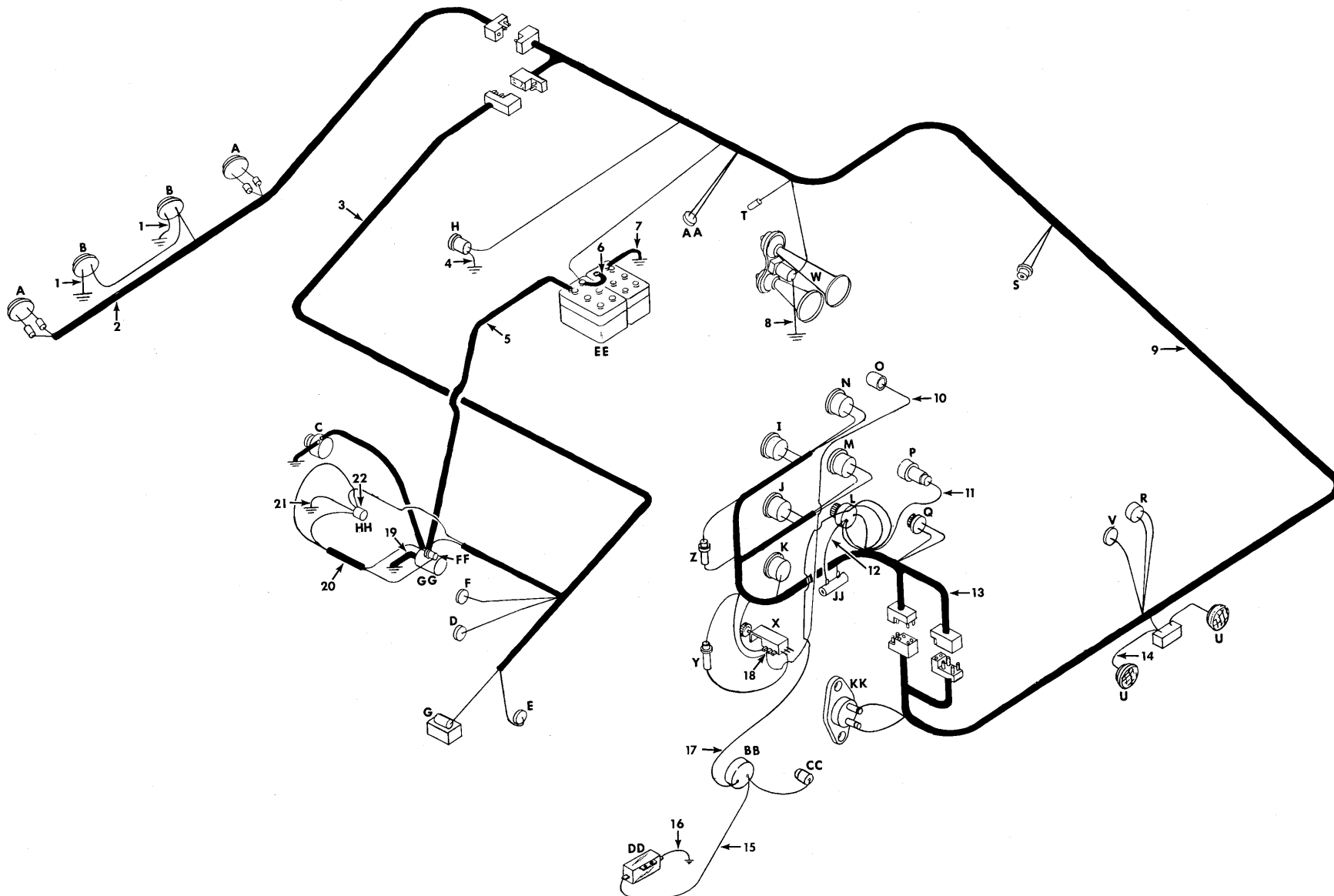
EE — Solenoid

FF — Resistor

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TS-11573

ELECTRICAL WIRING & CABLES
For Serial: 425A361 & After



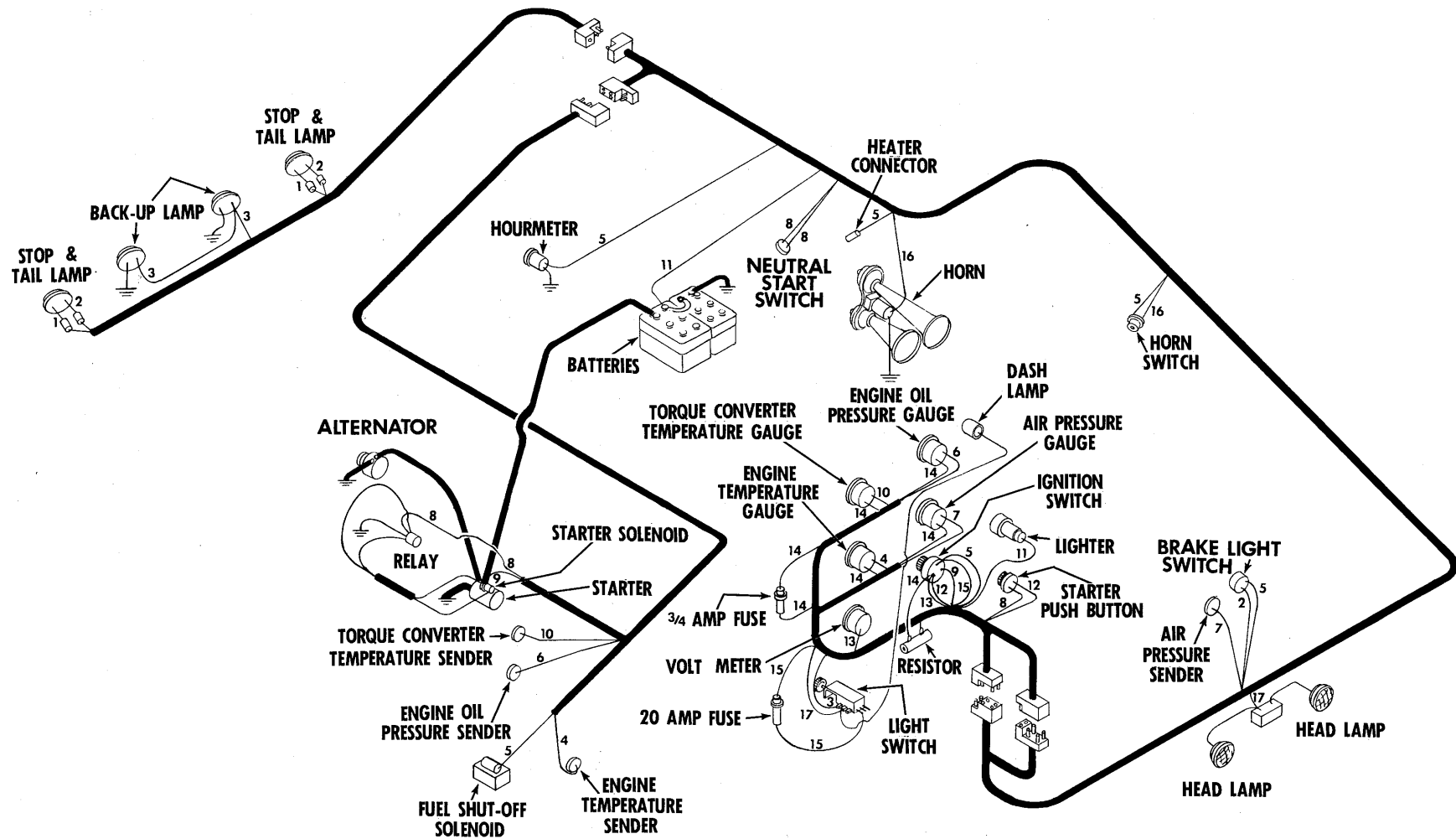
ELECTRICAL WIRING & CABLES
For Serial: 425A361 & After

Item No.	Part No.	Description	No. Req'd.
1	540882	WIRE, Back-up Lamp to Ground	2
2	1542813	WIRE HARNESS, Rear Lights	1
3	1513291	WIRE HARNESS, Engine	1
4	558960	WIRE, Hourmeter to Ground	1
5	1510729	CABLE, Battery to Starter	1
6	529359	CABLE, Battery to Battery	1
7	1514862	CABLE, Battery to Ground	1
8	1523329	WIRE, Horn to Ground	1
9	1514299	WIRE HARNESS, Main	1
10	-----	§WIRE, Light Switch to Dash Lamp (Part of Dash Lamp)	1
11	-----	§WIRE, Lighter to Harness (Part of Lighter)	1
12	663579	WIRE, Resistor to Ignition Switch	1
13	1513293	WIRE HARNESS, Cockpit	1
14	1542815	WIRE HARNESS, Front Lights	1
15	663579	WIRE, Sender to Buzzer	1
16	543483	WIRE, Buzzer to Ground	1
17	1548924	WIRE, Switch to Sender	1
18	574275	CONNECTOR, Light Switch to Wire	1
19	532549	CABLE, Starter to Ground	1
20	1530361	WIRE, Solenoid to Solenoid	1
21	543483	WIRE, Solenoid to Ground	1
22	1529233	SOLENOID	1

A — Stop & Tail Lamps	M — Air Pressure Gauge	Y — 20 Amp Fuse
B — Back-up Lamps	N — Engine Oil Pressure Gauge	Z — ¼ Amp Fuse
C — Alternator	O — Dash Lamp	AA — Neutral Start Switch
D — Engine Oil Pressure Sender	P — Lighter	BB — Low Pressure Sender
E — Engine Temperature Sender	Q — Starter Button	CC — Warning Light
F — Converter Temperature Sender	R — Stop Light Switch	DD — Buzzer
G — Fuel Solenoid	S — Horn Switch	EE — Batteries
H — Hourmeter	T — Heater Connector	FF — Starter Solenoid
I — Converter Temperature Gauge	U — Headlamps	GG — Starter
J — Engine Temperature Gauge	V — Air Pressure Sender	HH — Starter Relay
K — Voltmeter	W — Horn	JJ — Resistor
L — Ignition Switch	X — Light Switch	KK — Circuit Breaker

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

[E8-1]

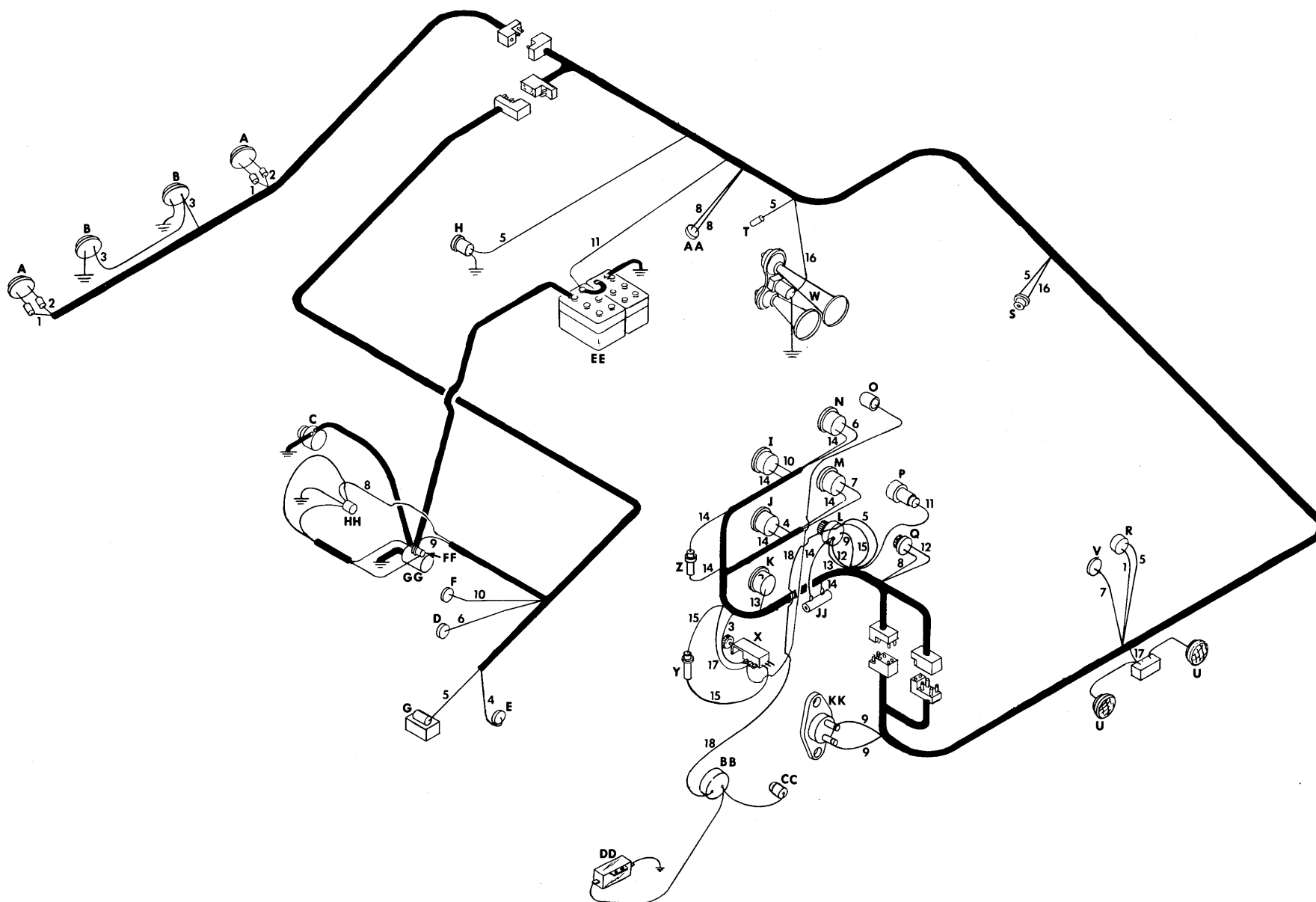


ELECTRICAL WIRING DIAGRAM (425A101 thru 425A360)

TS-10552

ELECTRICAL WIRING DIAGRAM
COLOR CODE CHART FOR USE WITH TS-10552
 (425A101 thru 425A360)

Ref. No.	Color	Color Code
1.	Tan	Stoplights to Brake Light Switch
2.	Yellow	Tail Lights to Instrument Panel Plug (Pink)
3.	Dark Blue	Rear Floodlamps to Light Switch
4.	Brown	Engine Temp. Sender to Engine Temp. Gauge
5.	Red & White	Ignition Switch to Hourmeter & Switches
6.	Dark Green	Engine Oil Press. Sender to Oil Press. Gauge
7.	Light Green	Air Press. Sender to Air Press. Gauge
8.	White	Starter Button to Neutral Start Switch to Relay
9.	Red	Ignition Switch to Starter Solenoid
10.	Grey	Converter Temp. Sender to Converter Temp. Gauge
11.	Orange	Battery to Lighter
12.	Black	Ignition Switch to Starter Button
13.	Purple & White	Ignition Switch to Voltmeter
14.	Purple	Ignition Switch to Resistor to Fuse to Gauges
15.	Violet	Ignition Switch to Fuse to Light Switch
16.	Light Blue	Horn Switch to Horn
17.	Pink	Light Switch to Front Floodlamps



ELECTRICAL WIRING DIAGRAM (425A361 & After)

TS-11508 B

ELECTRICAL WIRING DIAGRAM
COLOR CODE REFERENCE CHART FOR USE WITH TS-11508-B

(For Serial: 425A361 & After)

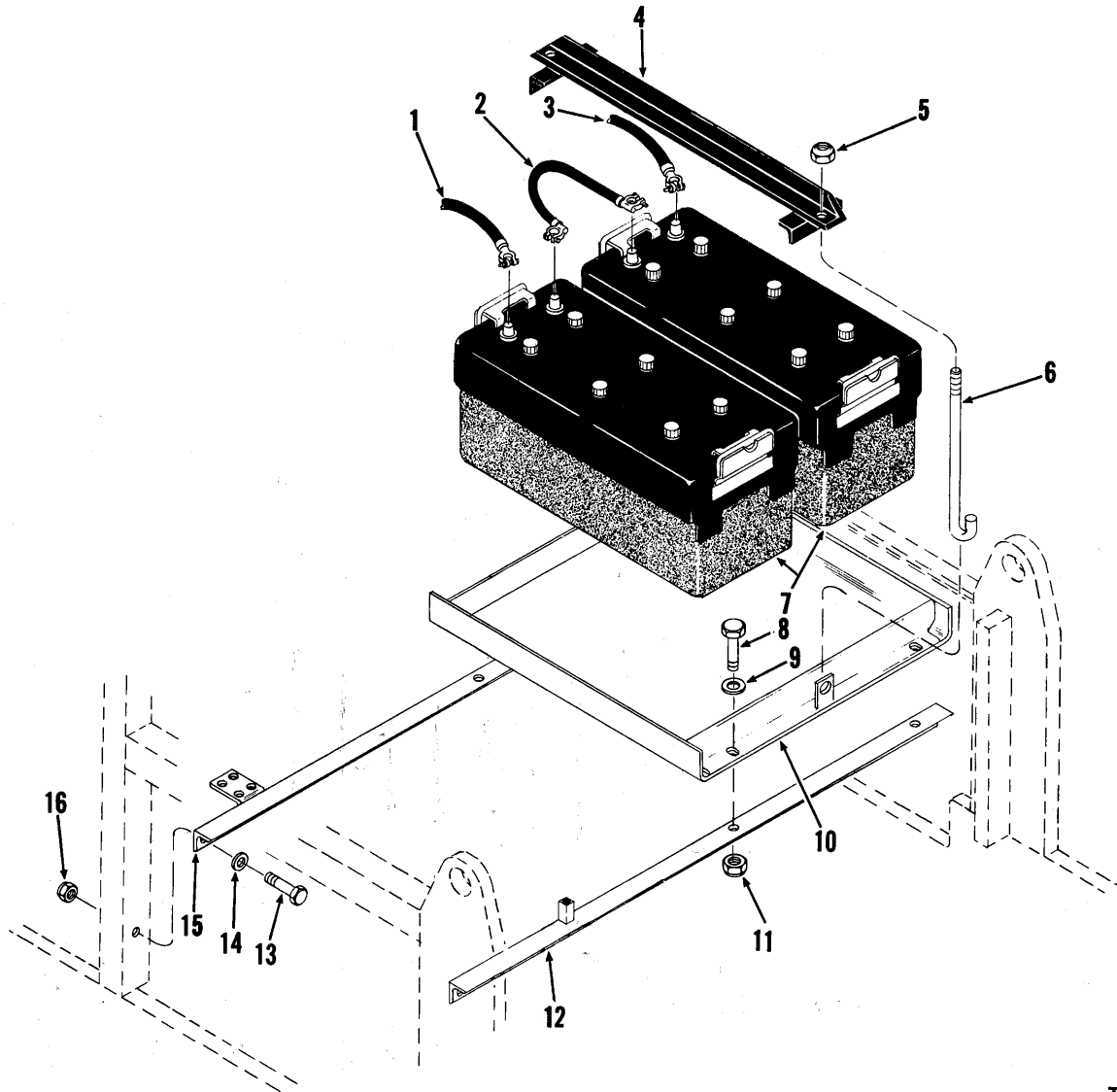
Ref. No.	Color	Color Code
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1.	Tan	Stop Lights to Stop Light Switch
2.	Yellow	Tail Lights to Instrument Panel Plug (Joins Pink)
3.	Dark Blue	Back-Up Lights to Light Switch
4.	Brown	Engine Temp. Sender to Engine Temp. Gauge
5.	Red & White	Ignition Switch to Hourmeter, Relay & Switches
6.	Dark Green	Engine Oil Press. Sender to Engine Oil Press. Gauge
7.	Light Green	Air Press. Sender to Air Press. Gauge
8.	White	Starter Button to Neutral Start Switch to Starter Relay
9.	Red	Ignition Switch to Circuit Breaker to Starter Solenoid
10.	Grey	Converter Temp. Sender to Converter Temp. Gauge
11.	Orange	Battery to Lighter
12.	Black	Ignition Switch to Starter Button
13.	Purple & White	Ignition Switch to Voltmeter
14.	Purple	Ignition Switch to Resistor to Fuse to Gauges
15.	Violet	Ignition Switch to Fuse to Light Switch
16.	Light Blue	Horn Switch to Horn
17.	Pink	Light Switch to Headlamps
18.	Black	Ignition Switch to Low Pressure Sender

A — Stop & Tail Lamps
B — Back-up Lamps
C — Alternator
D — Engine Oil Pressure Sender
E — Engine Temperature Sender
F — Converter Temperature Sender
G — Fuel Solenoid
H — Hourmeter
I — Converter Temperature Gauge
J — Engine Temperature Gauge
K — Voltmeter
L — Ignition Switch

M — Air Pressure Gauge
N — Engine Oil Pressure Gauge
O — Dash Lamp
P — Lighter
Q — Starter Button
R — Stop Light Switch
S — Horn Switch
T — Heater Connector
U — Headlamps
V — Air Pressure Sender
W — Horn
X — Light Switch

Y — 20 Amp Fuse
Z — ¼ Amp Fuse
AA — Neutral Start Switch
BB — Low Pressure Sender
CC — Warning Light
DD — Buzzer
EE — Batteries
FF — Starter Solenoid
GG — Starter
HH — Starter Relay
JJ — Resistor
KK — Circuit Breaker



TS-10681

BATTERIES, BATTERY BOX & HOLD DOWN

Item No.	Part No.	Description	No. Req'd.
1	1547130	CABLE, Battery to Ground	1
2	529359	CABLE, Battery to Battery	1
3	1510729	CABLE, Battery to Starter	1
4	566629	HOLD DOWN, Battery	1
5	17D-2	NUT, Battery Hold Down	2
6	585592	BOLT, Battery Hold Down	2
7	1671369	BATTERY	2
8	24C-824	BOLT, Battery Box to Support Angle ..	4

Item No.	Part No.	Description	No. Req'd.
9	635682	WASHER, Battery Box to Support	4
10	1537839	BOX, Battery	1
11	18D-08	NUT, Battery Box to Support	4
12	1543451	ANGLE, Support — Front	1
13	24C-824	BOLT, Support Angle to Frame	4
14	635682	WASHER, Support Angle to Frame	3
15	1537859	ANGLE, Support — Rear	1
16	18D-08	NUT, Support Angle to Frame	4

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

ENGINE ACCESSORIES — CUMMINS

All orders for engine assembly or components thereof should be placed with the nearest Cummins Engine Distributor. Always give model specifications and serial number of the engine when ordering parts. This data will be found on nameplate attached to the side of the engine.

ENGINE ACCESSORIES

Item No.	Part No.	Description	No. Req'd.
1	-----	*ALTERNATOR — 24V. (D.R. — 1117229, Cummins 203179)	1
2	-----	*STARTER ASSY — 24V. (D.R. — 1113850, Cummins 135162)	1
3	-----	*AIR COMPRESSOR (Cummins 196474)	1
4	-----	*GOVERNOR, Air Compressor (Cummins #189236), (B.W. #277468)	1
5	-----	*SOLENOID (Cummins 143795)	1
6	-----	*CORROSION RESISTOR (Cummins 132716)	1

FAN

CUMMINS 157333 MOTORTEIL

LT. H. WIDUAG CUMMINS GROSS GERAN 7/5/73

ENGINE ACCESSORY DRIVE BELTS

Item No.	Part No.	Description	No. Req'd.
7	948812	*BELT SET, Alternator Drive (Matched Set of 2)	1
8	948813	*BELT SET, Fan Drive (Matched Set of 3)	1
9	947387	*BELT, Water Pump (Single Belt)	1

*NOTE: The above listed accessory items are serviced by the engine manufacturer. Specifications on these items are subject to change without notice. It is, therefore, recommended that complete model, specifications and serial number of the engine be provided to your Cummins Engine Distributor when ordering these parts.

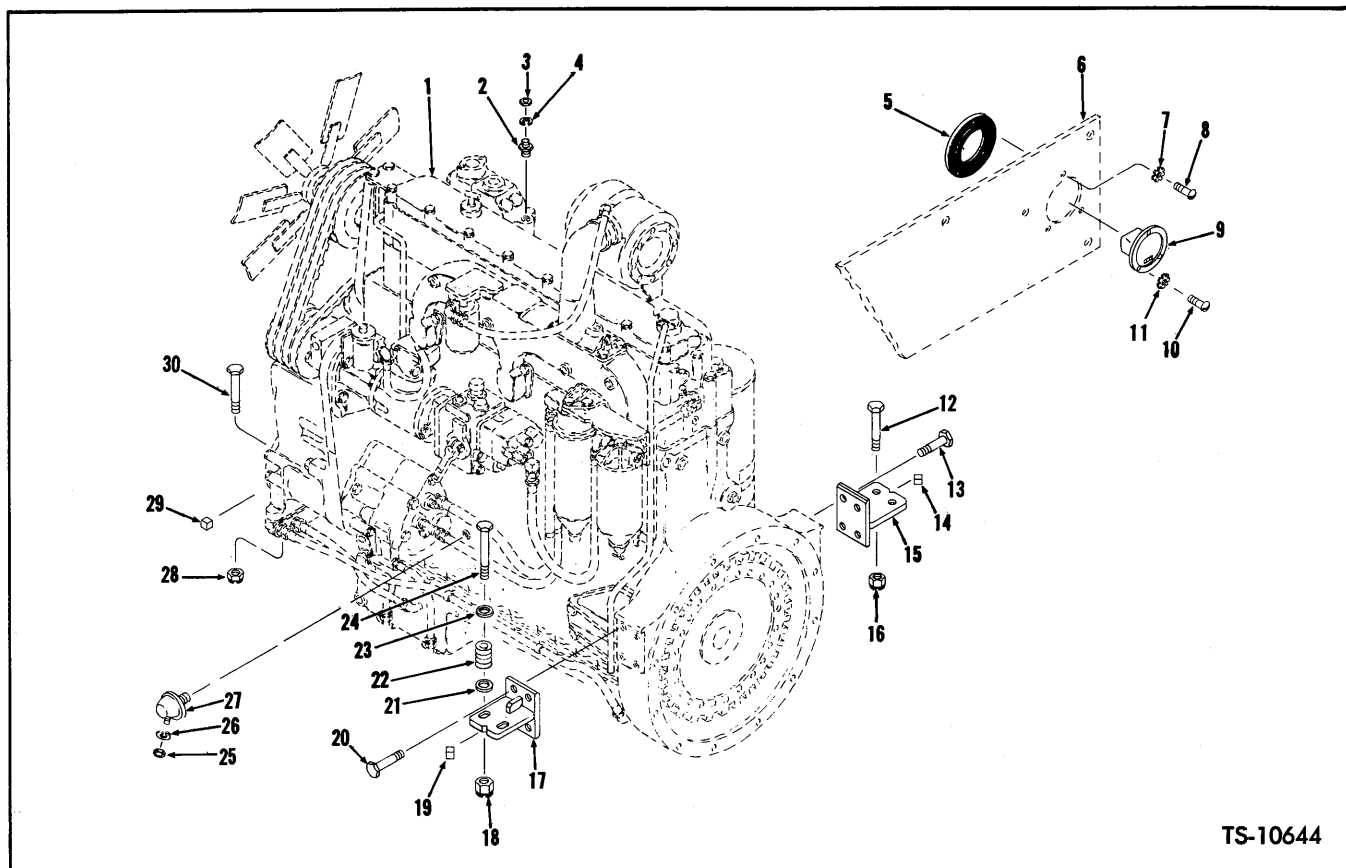
REPLACEMENT FILTER ELEMENTS

Item No.	Part No.	Description	No. Req'd.
10	946857	ELEMENT, Air Cleaner	1
11	945350	ELEMENT, Engine By Pass Filter	2
12	946010	ELEMENT, Engine Fuel Filter	1
13	215502	ELEMENT, Trans. & Torque Converter Hydraulic System	2
14	1530600	ELEMENT KIT, Hydraulic Reservoir Pressure Filter	2
15	1532445	FILTER ASSY, Hydraulic Reservoir Suction	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

ENGINE & ACCESSORIES — CUMMINS

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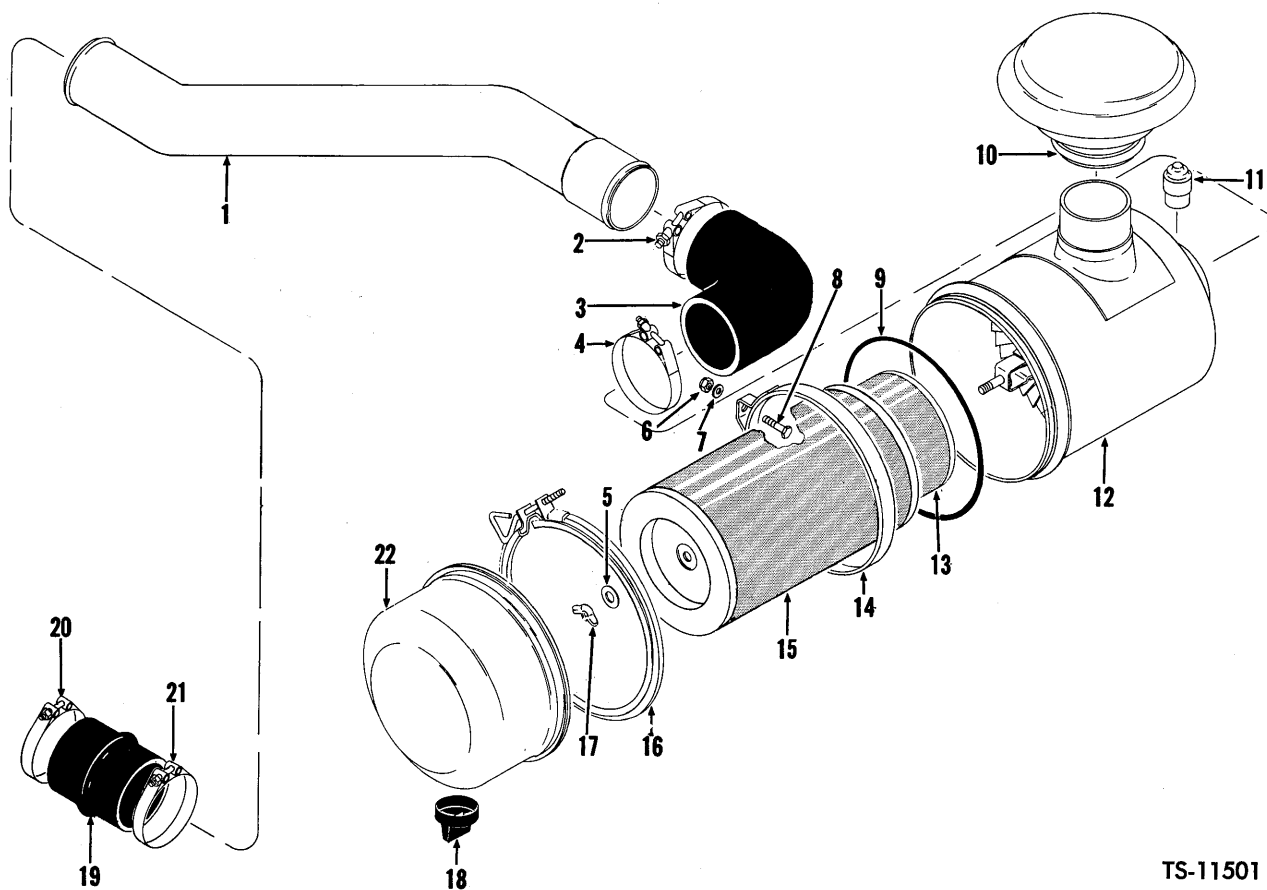


TS-10644

ENGINE ACCESSORIES & SUPPORT PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	ENGINE — See Engine Parts Manual	—	15	1521079	SUPPORT, Engine — L.H.	1
2	551323	SENDER UNIT, Engine Temperature	1	16	68D-12	NUT, Support to Frame	2
3	14D-10	NUT, Sender Unit	1	17	1521080	SUPPORT, Engine — R.H.	1
4	12E-10	LKWSHR, Sender Unit	1	18	68D-12	NUT, Support to Frame	2
5	551251	DAMPENER, Hourmeter Vibration	1	19	608241	FLAT, Rectangle (Welded to Frame)	1
6	—	PLATE, Air Cleaner Mounting — See Index	—	20	8C-1028	BOLT, Support to Engine	4
7	12E-6	LKWSHR, Vibration Dampener Mounting	3	21	616809	WASHER, Support to Frame — R.H.	2
8	85G-608	SCREW, Vibration Dampener Mounting	3	22	570419	SPRING, Support to Frame — R.H.	2
9	1801087	HOURLMETER (Inc. 10 & 11)	1	23	616809	WASHER, Support to Frame — R.H.	2
10	85G-608	SCREW, Hourmeter to Dampener	3	24	24C-1288	BOLT, Support to Frame — R.H.	2
11	12E-6	LKWSHR, Hourmeter to Dampener	3	25	14D-10	NUT, Sender Unit	1
12	24C-1256	BOLT, Support to Frame — L.H.	2	26	12E-10	LKWSHR, Sender Unit	1
13	8C-1028	BOLT, Support to Engine	4	27	1534135	SENDER UNIT, Engine Oil Pressure	1
14	608241	FLAT, Rectangle (Welded to Frame)	1	28	18D-10	NUT, Engine to Frame — Rear	2
				29	608241	FLAT, Rectangular (Welded to Frame)	2
				30	24C-1052	BOLT, Engine to Frame — Rear	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11501 B

ENGINE AIR CLEANER & CONNECTIONS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1549414	TUBE	1	12B	1513874	For Serial Group "B" (Inc. 5, 9, 13, 14, 15, 16, 17, 18, 22)	1
2	1500793	CLAMP, Hose	1	13	949363	*ELEMENT, Inner	1
3	1529315	HOSE, Intake	1	14	1529624	BAND, Air Cleaner Mounting	2
4	1500793	CLAMP, Hose	1	15	946857	ELEMENT, Outer	1
5	3292704	GASKET, Wing Nut	2	16	945021	CLAMP, Cup to Body	1
6	18D-05	NUT, Air Cleaner Mounting	4	17	886526	NUT, Wing	2
7	656672	WASHER, Air Cleaner Mounting	4	18	946860	VALVE, Vacuator	1
8	24C-620	BOLT, Air Cleaner Mounting	4	19	1522454	HOSE, Intake	1
9	944494	O-RING, Cup to Body	1	20	540797	CLAMP, Hose	1
10	1529623	CAP, Air Cleaner	1	21	1500793	CLAMP, Hose	1
11	1529625	INDICATOR, Service	1	22	946860	CUP, Air Cleaner	1
12	Air Cleaner Assembly						
12A	1529622	**For Serial Group "A" (Inc. 5, 9, 14, 15, 16, 17, 18, 22)	1				

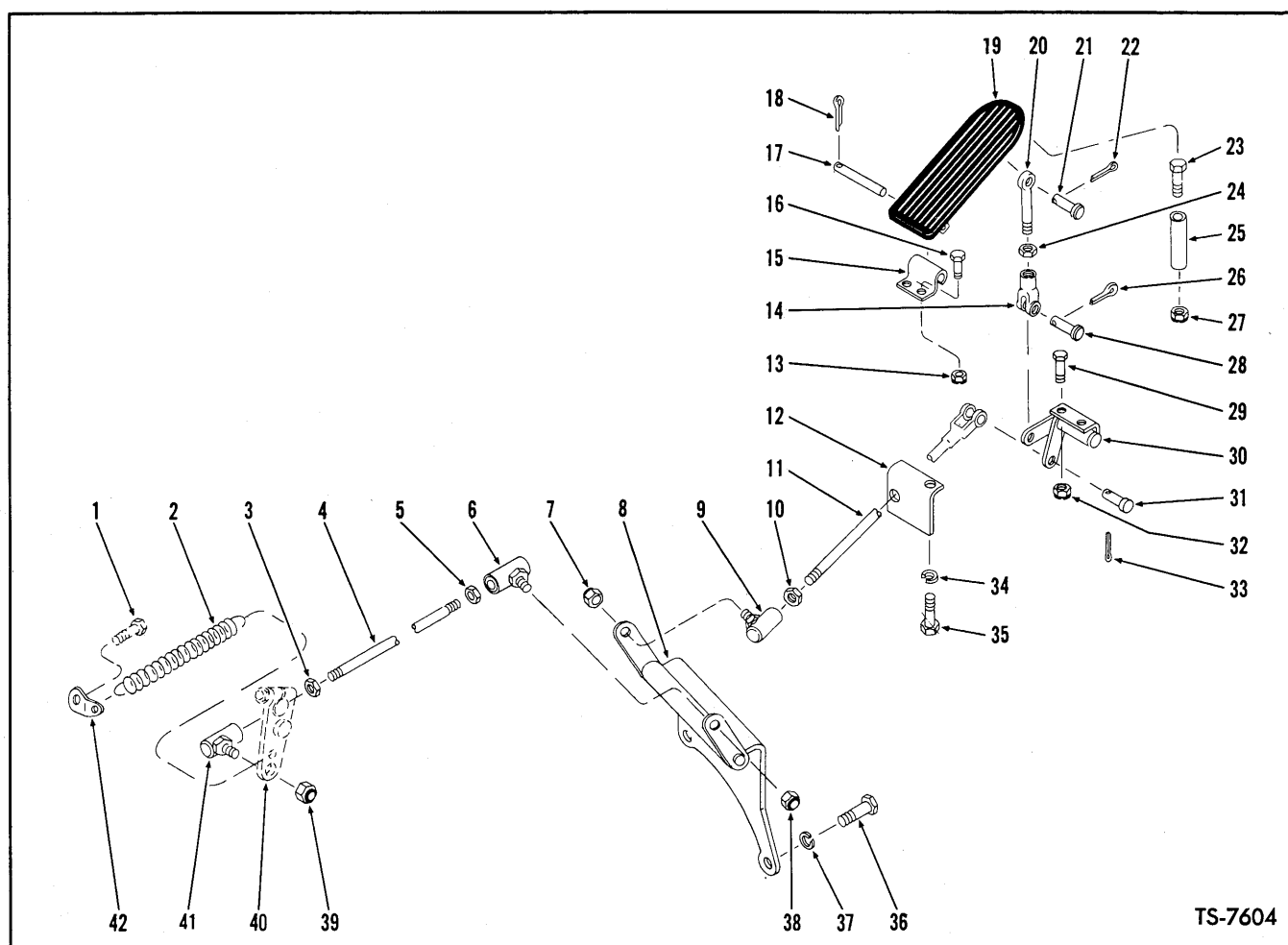
**NOTE: For complete replacement use 1513874.

*NOTE: Used on Serial Group "B" Only.

Serial Group "A": 425A101 thru 999.

Serial Group "B": 425B101 & After.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

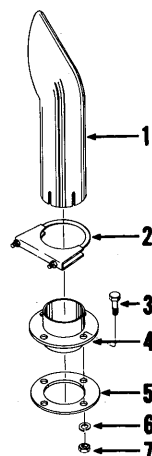


TS-7604

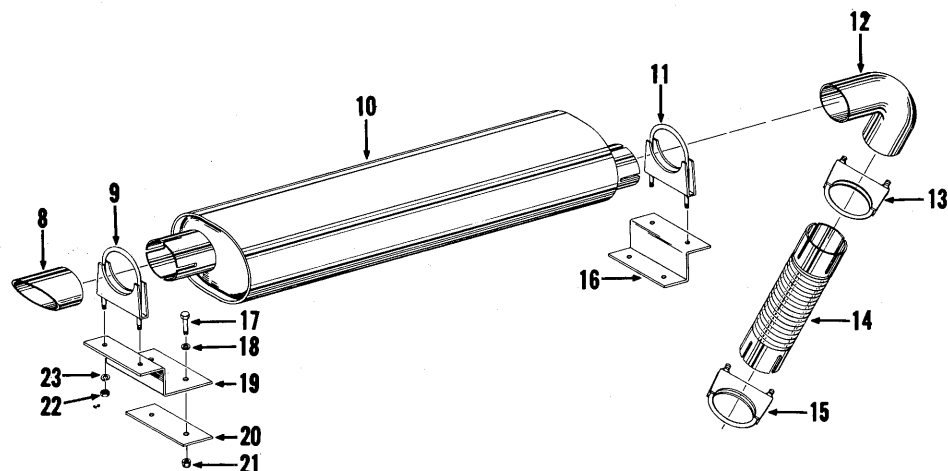
ENGINE CONTROLS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	—	BOLT — Furnished With Engine	—	21	4F-04051	PIN, Pedal to Rod Clevis	1
2	551014	SPRING, Accelerator Rod Return	1	22	1F-208	COTTER, Clevis Pin	1
3	8D-05	NUT, Ball Joint Jam	1	23	24C-448	BOLT, Stop to Floorboard	1
4	1548294	ROD, Engine to Bellcrank (Inc. 3, 5, 6, 41)	1	24	8D-04	NUT, Rod Jam	1
5	8D-05	NUT, Ball Joint Jam	1	25	551016	STOP, Accelerator Pedal	1
6	1301361	BALL JOINT	1	26	1F-208	COTTER, Clevis Pin	1
7	66D-05	NUT, Ball Joint to Bellcrank	1	27	18D-04	NUT, Stop to Floorboard	1
8	1548747	BELLCRANK	1	28	4F-04051	PIN, Clevis to Bellcrank	1
9	1301361	BALL JOINT	1	29	24C-416	BOLT, Bellcrank to Floorboard	2
10	8D-05	NUT, Ball Joint Jam	1	30	1543304	BELLCRANK	1
11	1543307	ROD, Accelerator (Inc. 9, 10, 12)	1	31	4F-04051	PIN, Accelerator Rod to Bellcrank	1
12	569761	GUIDE, Accelerator Rod	1	32	18D-04	NUT, Bellcrank to Floorboard	2
13	18D-04	NUT, Accelerator Pedal Bracket to Floorboard	2	33	1F-208	COTTER, Bellcrank Pin	1
14	2J-4200	CLEVIS, Rod to Bellcrank	1	34	4E-06	LKWSHR, Guide to Cockpit	1
15	1544695	BRACKET, Accelerator Pedal Pivot	1	35	24C-616	BOLT, Guide to Cockpit	1
16	24C-416	BOLT, Accelerator Pedal Bracket to Floorboard	2	36	23C-728	BOLT, Bellcrank to Engine	2
17	623762	PIN, Pedal to Bracket	1	37	4E-07	LKWSHR, Bellcrank to Engine	2
18	1F-316	COTTER, Pedal Pin	1	38	18D-05	NUT, Ball Joint to Bellcrank	1
19	623829	PEDAL, Accelerator	1	39	18D-05	NUT, Ball Joint to Governor Arm	1
20	550619	ROD, Pedal to Bellcrank	1	40	—	ARM, Governor — See Engine Parts Manual	—
				41	1301361	BALL JOINT, Rod to Governor Arm	1
				42	551778	ANCHOR, Return Spring to Engine	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



**FOR SERIAL
425A ONLY**



TS-11554 B

ENGINE EXHAUST SYSTEM

Item No.	Part No.	Description	No. Req'd.
1	1529635	*PIPE, Tail	1
2	1500453	*CLAMP, Pipe to Pipe	1
3	17C-620	*BOLT, Exhaust Pipe & Flange to Hood	4
4	1540793	*PIPE, Exhaust	1
5	1524162	*FLANGE, Exhaust	1
6	4E-06	*LKWSHR, Exhaust Pipe & Flange to Hood	4
7	15D-06	*NUT, Exhaust Pipe & Flange to Hood	4
8	1543638	PIPE, Tail	1
9	1529986	CLAMP, Pipe to Muffler (Inc. 22, 23)	1
10	1510165	MUFFLER ASSY	1
11	1529986	CLAMP, Pipe to Muffler	1
12	1511798	PIPE, Exhaust	1
13	1529986	CLAMP, Pipe to Pipe	1
14	1510686	TUBE, Exhaust Flex	1
15	1529986	CLAMP, Tube to Blower	1
16	1511800	BRACKET, Muffler Mounting	1
17	24C-620	BOLT, Bracket to Hood	4
18	656672	WASHER, Bracket to Hood	4
19	1511801	BRACKET, Muffler Mounting	1
20	1511799	PLATE, Bracket Support	2
21	18D-08	NUT, Bracket to Hood	4
22	-----	§ See Item 9	—
23	-----	§ See Item 9	—

*NOTE: For Serial: 425A101 thru 999 Only.

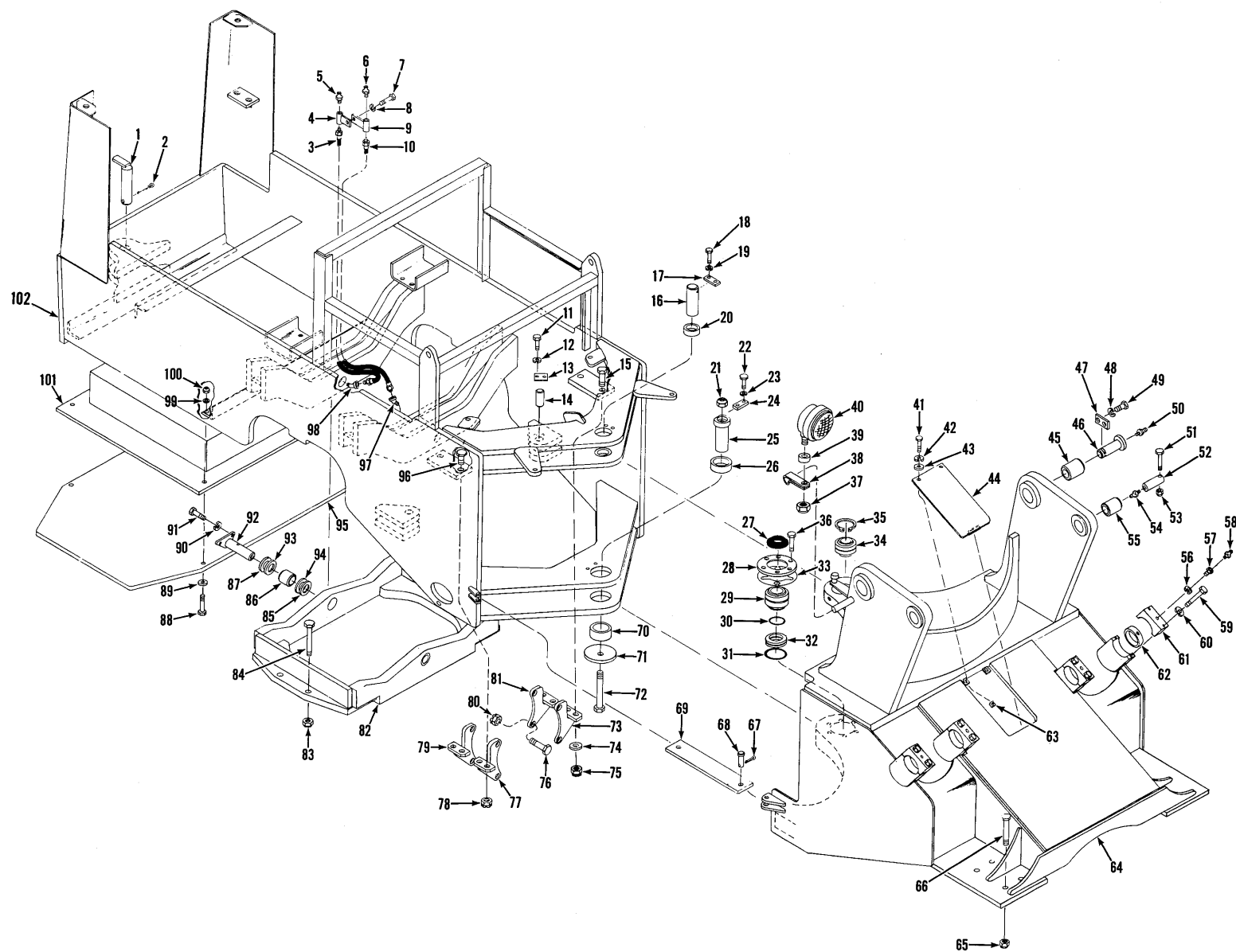
§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



**"F" GROUP
CONTENTS**

Front and Rear Frame and Cradle	F 3
Fuel Tank, Step and Fuel Lines	F 6



FRONT AND REAR FRAME AND CRADLE

TS-10658

FRONT & REAR FRAME & CRADLE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	1506818	PIN, Drawbar	1	29A	10H-25	†FITTING, Lower Pivot Grease	1
2	1F-1252	COTTER, Drawbar Pin	1	30	25K-40416	O-RING, Lower Hinge Pin	1
3	549262	HOSE, Fitting to Cradle Pin	1	31	25K-40502	O-RING, Lower Hinge Pin	1
4	1504336	COUPLING, Hose Mounting	1	32	561088	SPACER, Lower Hinge Pin	1
5	10H-25	FITTING, Cradle Pin Grease	1	33	1538850	‡SHIM, Lower Hinge Pin	—
6	10H-25	FITTING, Cradle Pin Grease	1	34	561085	BUSHING, Upper Hinge Pin	1
7	24C-620	BOLT, Coupling to Frame Block	1	34A	10H-25	†FITTING, Upper Hinge Pin	1
8	4E-06	LKWSHR, Coupling to Frame Block	1	35	743848	RING, Upper Bushing Retaining	1
9	1504336	COUPLING, Hose Mounting	1	36	24C-1436	BOLT, Retaining Plate to Frame	6
10	549262	HOSE, Fitting to Cradle Pin	1	37	18D-08	NUT, Head Lamp to Clamp	2
11	24C-820	BOLT, Lockplate to Frame	8	38	1522201	CLAMP, Head Lamp Mounting	2
12	4E-08	LKWSHR, Lockplate to Frame	8	39	652448	SPACER, Head Lamp Mounting	2
13	1507920	LOCKPLATE, Steer Pin Retaining	4	40	548088	LAMP ASSY, Head (Inc. 40A, 40B)	2
14	1545165	PIN, Steering Cylinder to Frame	4	40A	551244	†SEALED UNIT, Head Lamp	2
15	24C-1676	BOLT, Trans. Bracket to Frame — L.H. ...	2	40B	944872	†RETAINER, Head Lamp	2
16	1508161	PIN, Upper Hinge	1	41	23C-620	BOLT, Cover to Front Frame	2
17	1548429	LOCKPLATE, Upper Hinge Pin	1	42	4E-06	LKWSHR, Cover to Front Frame	2
18	24C-1224	BOLT, Lockplate to Frame	2	43	656672	WASHER, Cover to Front Frame	2
19	4E-12	LKWSHR, Lockplate to Frame	2	44	1544197	COVER, Front Frame	1
20	1525299	BUSHING, Upper Pivot	2	45	1546608	BUSHING, Boom Support	2
21	18D-24	NUT, Lower Hinge Pin	1	46		PIN, Boom to Frame	
22	24C-820	BOLT, Lockplate to Lower Hinge	2	46A	1510995	For Serial Group "A"	2
23	4E-08	LKWSHR, Lockplate to Lower Hinge	2	46B	1514224	For Serial Group "B"	2
24	1538866	LOCKPLATE, Lower Hinge Pin Ret.	1	47	1544087	LOCKPLATE, Pin Retaining	4
25	1538754	PIN, Lower Hinge	1	48	4E-08	LKWSHR, Lockplate to Frame	8
25A	10H-25	†FITTING, Pin Grease	2	49	24C-820	BOLT, Lockplate to Frame	8
26	1538753	BUSHING, Lower Pivot	1	50	10H-25	FITTING, Pin Grease	2
27	1657109	WIPER, Lower Hinge Pin	1	51	24C-12112	BOLT, Pin Retaining	2
28	1538775	CAP, Lower Hinge Pin	1				
29	1538842	BUSHING, Lower Hinge Pin	1				

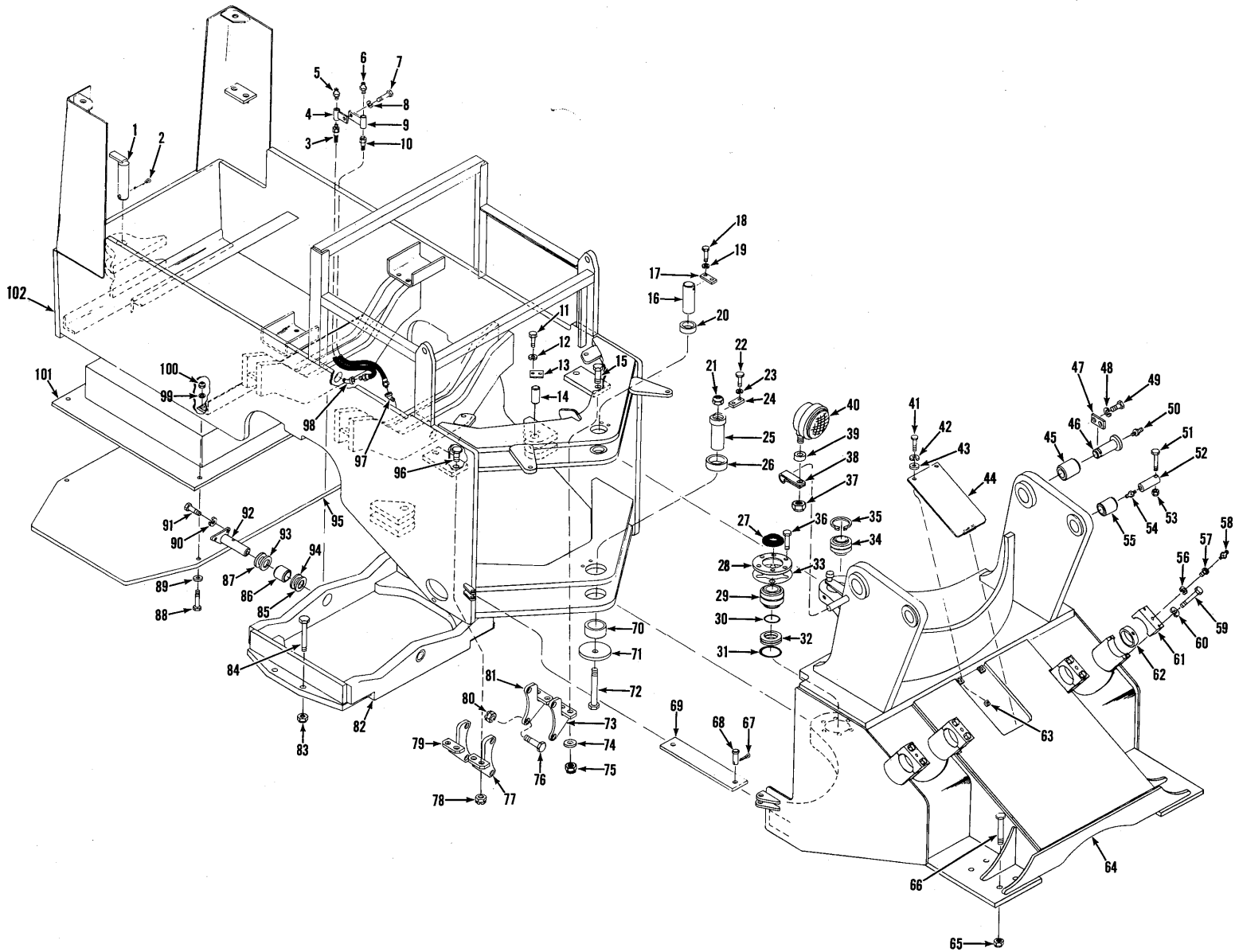
†Not Illustrated

‡As Required

Serial Group "A" — 425A101 thru 999.

Serial Group "B" — 425B101 & After.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



FRONT AND REAR FRAME AND CRADLE

TS-10658

FRONT & REAR FRAME & CRADLE (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
52		PIN, Bucket Cylinder to Frame		76	24C-1664	BOLT, Bracket to Transmission	7
52A	1539411	For Serial Group "A"	2	76A	24C-1648	†BOLT, Bracket to Transmission	1
52B	1514223	For Serial Group "B"	2	77	1537569	BRACKET, Trans. Mount — R.H.	1
53	18D-12	NUT, Pin Retaining	2	78	68D-16	NUT, Bracket to Frame — R.H.	2
54	10H-25	FITTING, Pin Grease	2	79	1537569	BRACKET, Trans. Mount — R.H.	1
55		BUSHING, Bucket Cylinder		80	68D-16	NUT, Bracket to Transmission	7
55A	1538599	For Serial Group "A"	2	80A	18D-16	†NUT, Bracket to Transmission	1
55B	1522728	For Serial Group "B"	2	81	1537570	BRACKET, Trans. Mount — L.H.	1
56	4E-12	LKWSHR, Tapped Bolt	4	82	1538326	CRADLE ASSY, Rear Axle (Inc. 86)	1
57	1548630	BOLT, Tapped	4	83	18D-24	NUT, Axle to Cradle	8
58	10H-25	FITTING, Cylinder Grease	4	84	1510533	BOLT, Axle to Cradle	8
59	24C-1696	BOLT, Cap to Frame	8	85	1508675	‡SHIM, Cradle Mounting — 1/8"	—
60	4E-16	LKWSHR, Cap to Frame	8	86	1505775	BUSHING, Cradle Mounting	2
61	1538605	BLOCK, Boom Cylinder Mounting	4	87	1508675	‡SHIM, Cradle Mounting — 1/8"	—
62	1538596	BUSHING, Boom Cylinder Mounting	4	88	24C-2096	BOLT, Service Platform to Frame	4
63	572729	CAGED NUT, Cover Mounting	2	89	652847	WASHER, Service Platform to Frame	4
64		FRONT FRAME (Inc. 45, 55, 59, 60, 61)		90	4E-12	LKWSHR, Pin to Cradle	4
64A	1538646	For Serial Group "A"	1	91	24C-1228	BOLT, Pin to Cradle	4
64B	1512437	For Serial Group "B"	1	92	1508588	PIN, Axle Cradle Pivot	2
65	18D-24	NUT, Axle Mounting <i>X</i>	8	93	561375	‡SHIM, Cradle Mounting — 1/8"	—
66	1510534	BOLT, Axle Mounting <i>X</i>	8	94	561375	‡SHIM, Cradle Mounting — 1/8"	—
67	1F-532	COTTER, Clevis Pin	2	95	1547887	PLATFORM, Service	1
68	1533279	PIN, Clevis	2	96	24C-1672	BOLT, Bracket to Frame — R.H.	2
69	1538388	BAR, Safety Link	1	97	26F-1	FITTING, Hose to Cradle Pin	1
70	1522162	BUSHING, Lower Pivot	1	98	26F-1	FITTING, Hose to Cradle Pin	1
71	1544069	PLATE, Bushing Retainer	1	99	652847	WASHER, Service Platform to Frame	4
72	24C-24192	BOLT, Lower Hinge Pin	1	100	18D-20	NUT, Service Platform to Frame	4
73	1537570	BRACKET, Trans. Mounting — L.H.	1	101	—	OMIT, Not Used This Application	—
74	539404	WASHER, Transmission to Frame	2	102		REAR FRAME ASSY (Inc. 20, 26, 70)	
75	68D-16	NUT, Bracket to Frame — L.H.	2	102A	1538571	For Serial Group "A"	1
				102B	1514406	For Serial Group "B"	1

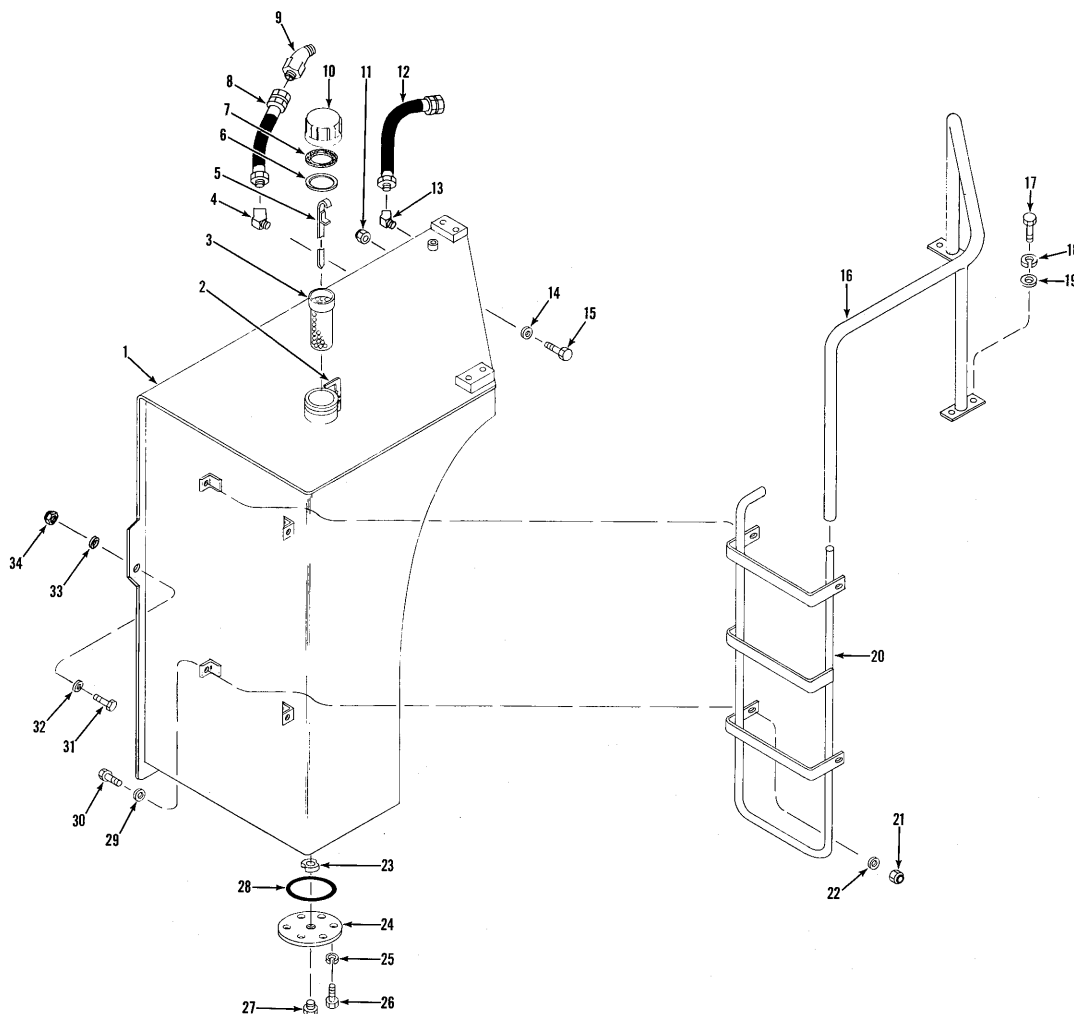
†Not Illustrated

‡As Required

Serial Group "A" — 425A101 thru 999.

Serial Group "B" — 425B101 & After.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10642

FUEL TANK, STEP & FUEL LINES

Item No.	Part No.	Description	No. Req'd.
1	1544786	TANK, Fuel (Inc. 2, 2A)	1
2	1509025	LATCH, Cap	1
2A	1H-414	†RIVET, Latch	1
3	943957	SCREEN, Fuel Tank	1
4	31F-4	ELBOW, Hose to Fuel Tank	1
5	569497	DIPSTICK, Fuel Tank	1
6	946954	PLATE, Gasket Back-Up	1
7	946953	GASKET, Fuel Cap	1
8	1543008	HOSE, Fuel Suction	1
9	17K-7	ELBOW, Hose to Filter (Inc. 9A)	1
9A	91F-7	†O-RING, Elbow	1
10	1558644	CAP, Filler (Inc. 6, 7)	1
11	18D-12	NUT, Tank to Frame	2
12	1543009	HOSE, Fuel Return	1
13	31F-3	ELBOW, Hose to Fuel Tank	1
14	616809	WASHER, Tank to Frame Angle	4
15	24C-1260	BOLT, Tank to Frame Angle	2
16	1544780	HAND RAIL, L.H.	1

Item No.	Part No.	Description	No. Req'd.
17	24C-824	BOLT, Hand Rail to Fuel Tank	4
18	4E-08	LKWSHR, Hand Rail to Fuel Tank	4
19	619029	WASHER, Hand Rail to Fuel Tank	4
20	1544777	STEP — L.H.	1
21	18D-08	NUT, Step to Fuel Tank	4
22	619029	WASHER, Step to Fuel Tank	4
23	525293	MAGNET, Fuel Tank	1
24	587613	PLATE, Inspection	1
25	4E-06	LKWSHR, Inspection Plate to Tank	6
26	24C-612	BOLT, Inspection Plate to Tank	6
27	40K-16	PLUG, Inspection Plate	1
28	25K-40428	O-RING, Inspection Plate	1
29	619029	WASHER, Step to Tank	4
30	24C-828	BOLT, Step to Tank	4
31	24C-1244	BOLT, Tank to Angle	1
32	616809	WASHER, Tank to Angle	1
33	616809	WASHER, Tank to Angle	1
34	18D-10	NUT, Tank to Angle	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**"H" GROUP
CONTENTS**

Hood, Shrouds and GrilleH 3

Hydraulic Group:

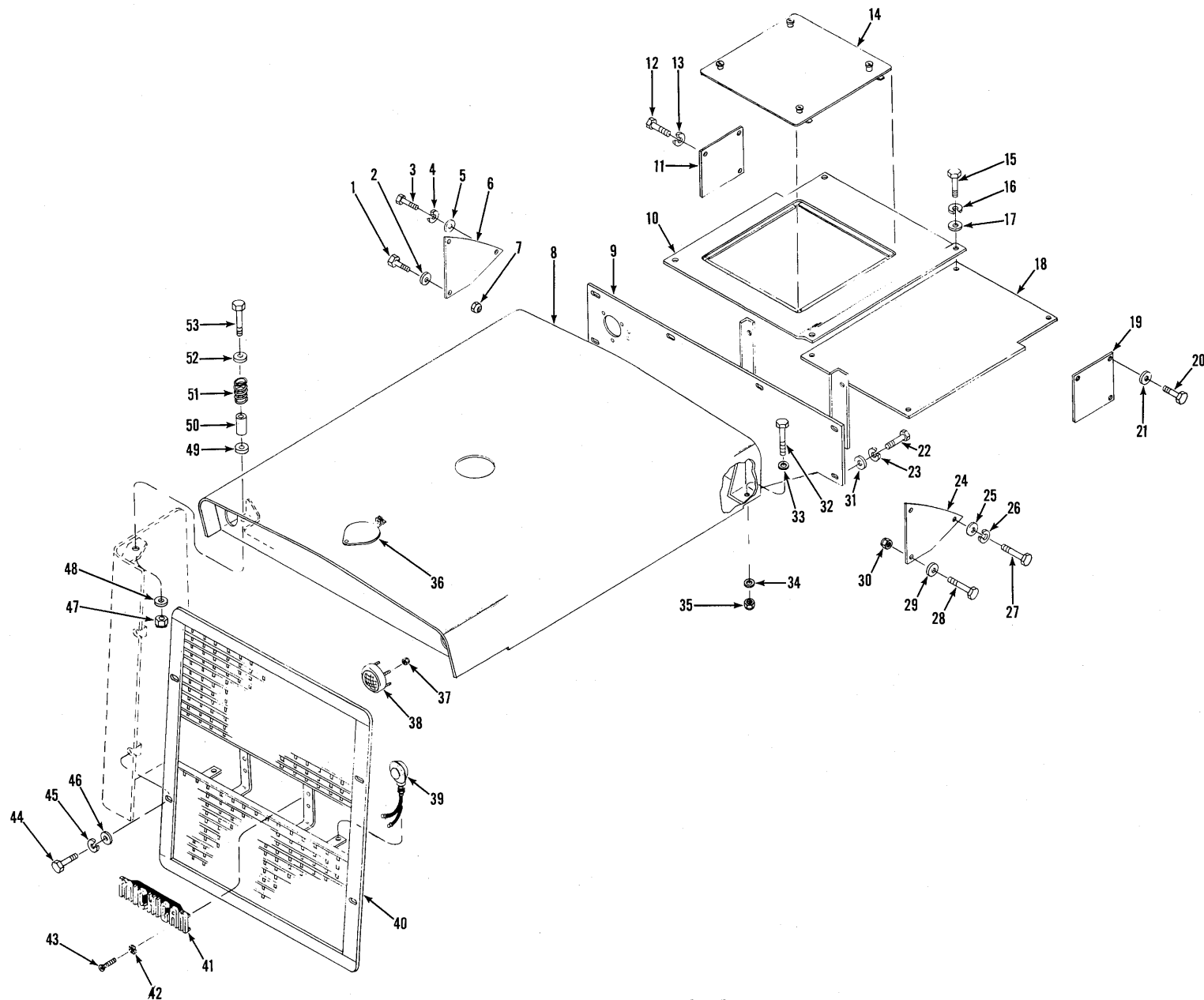
Hydraulic Accumulator AssemblyH 4

Hydraulic Oil Reservoir, Filters and StepH 5

Hydraulic System — Bucket and BoomH 7

Hydraulic System — SteeringH 13

Hydraulic System — Transmission and Torque ConverterH 15



HOOD, SHROUDS & GRILLE

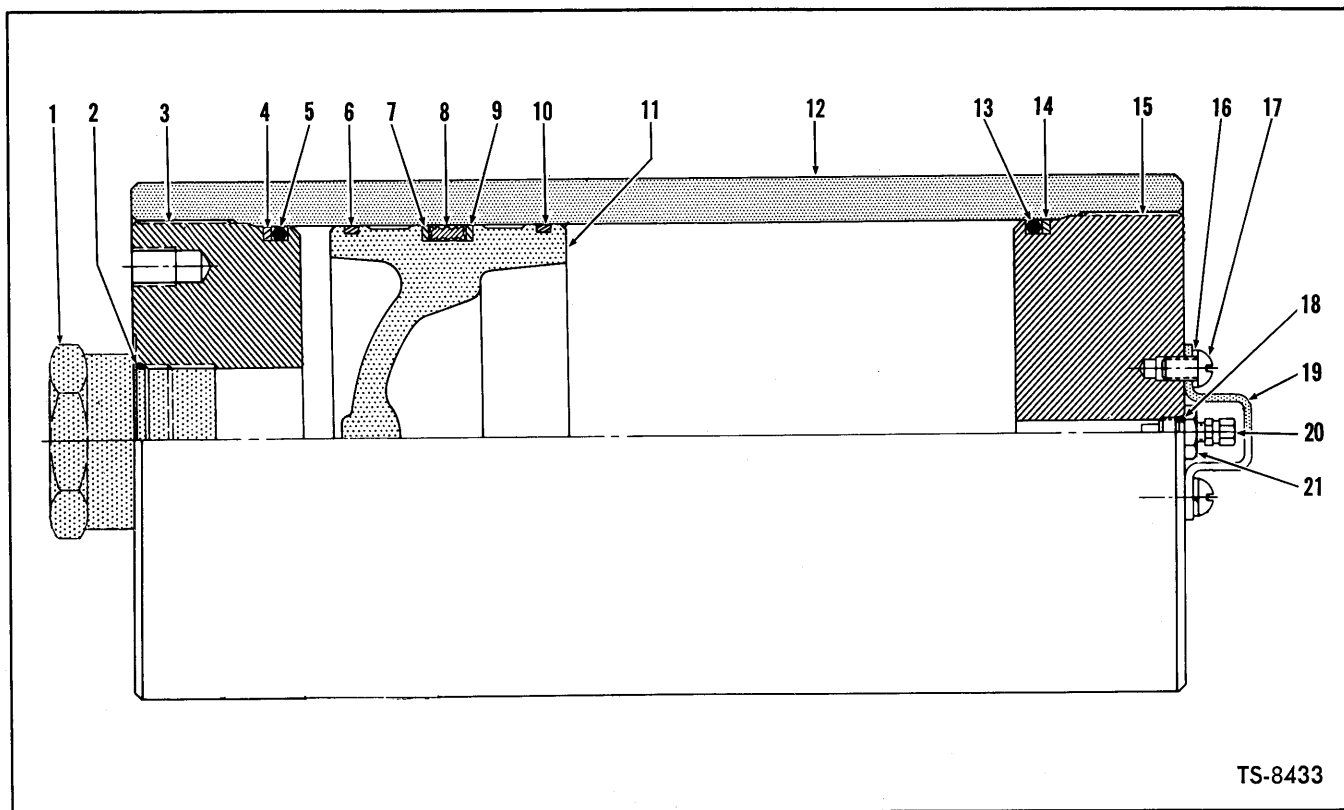
TS-10668

HOOD, SHROUDS & GRILLE

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-624	BOLT, Side Plate to Frame	2	25	656672	WASHER, Side Plate to Frame	1
2	656672	WASHER, Side Plate to Frame	2	26	4E-06	LKWSHR, Side Plate to Frame	1
3	24C-616	BOLT, Side Plate to Frame	1	27	24C-616	BOLT, Side Plate to Frame	1
4	4E-06	LKWSHR, Side Plate to Frame	1	28	24C-624	BOLT, Side Plate to Frame	2
5	656672	WASHER, Side Plate to Frame	1	29	656672	WASHER, Side Plate to Frame	2
6	1537776	PLATE, Side	1	30	18D-06	NUT, Side Plate to Frame	2
7	18D-06	NUT, Side Plate to Frame	2	31	656672	WASHER, Mounting Plate to Frame ...	6
8		HOOD (Inc. 36, 36A)		32	24C-624	BOLT, Hood to Frame	2
8A	1540843	For Serial Group "A"	1	33	656672	WASHER, Hood to Frame	2
8B	1514300	For Serial Group "B"	1	34	656672	WASHER, Hood to Frame	2
9		AIR CLEANER MOUNTING PLATE		35	18D-06	NUT, Hood to Frame	2
9A	1543323	For Serial Group "A"	1	36	1544448	PLATE, Cover	1
9B	1514302	For Serial Group "B"	1	36A	1H-508	†RIVET, Cover Plate	1
10	1543327	PLATE, L.H. Cover	1	37	50D-10	NUT, Lamp to Hood	6
11	569763	PLATE, Cockpit Side	1	38	582057	LAMP ASSY, Back-Up (Inc. 38A, 38B) ..	2
12	23C-616	BOLT, Plate to Cockpit	3	38A	551244	†SEALED UNIT, Lamp	2
13	4E-06	LKWSHR, Plate to Cockpit	3	38B	944977	†FRAME & RETAINER	2
13A	656672	†WASHER, Plate to Cockpit	3	39	1545132	LAMP ASSY, Stop & Tail (Inc. 39A)	2
14	1543324	DOOR, Battery (Inc. 14A)	1	39A	878645	†BULB, Stop & Tail Lamp	2
14A	1698754	†LATCH, Door	4	40	1540905	GRILLE	1
15	23C-620	BOLT, Cover Plate to Frame	6	41	535649	NAMEPLATE — "MICHIGAN"	1
16	4E-06	LKWSHR, Cover Plate to Frame	6	42	20E-04	LKWSHR, Nameplate to Grille	4
17	656672	WASHER, Cover Plate to Frame	6	43	7G-418	SCREW, Nameplate to Grille	4
18	1543326	PLATE, R.H. Cover	1	44	24C-828	BOLT, Grille to Frame	4
19	569763	PLATE, Cockpit Side	1	45	4E-08	LKWSHR, Grille to Frame	4
20	23C-616	BOLT, Plate to Cockpit	3	46	635682	WASHER, Grille to Frame	4
21	4E-06	LKWSHR, Plate to Cockpit	3	47	18D-06	NUT, Hood to Frame	2
21A	656672	†WASHER, Plate to Cockpit	3	48	656672	WASHER, Hood to Frame	2
22	23C-620	BOLT, Mounting Plate to Frame	6	49	1528537	SPACER, Hood to Frame	2
23	4E-06	LKWSHR, Mounting Plate to Frame	6	50	1528537	SPACER, Hood to Frame	2
24	1537776	PLATE, Side	1	51	500021	SPRING, Hood to Frame	2
				52	664962	WASHER, Hood to Frame	2
				53	24C-644	BOLT, Hood to Frame	2

†Not Illustrated
 Serial Group "A" — 425A101 thru 999.
 Serial Group "B" — 425B101 & After.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-8433

CAUTION**This is a Gas Pressurized System**

Do not disconnect any part of the system without first relieving hydraulic system pressure.

Relieving Hydraulic System Pressure

Position boom and bucket mechanism so that bucket is on ground. Shut down engine. Loosen hydraulic reservoir cap slowly to relieve pressure in reservoir. Actuate boom and bucket control levers both fore and aft, holding levers in fore and aft position for several seconds. Repeat this operation several times. Retighten reservoir cap.

Before attempting to service components of accumulator, release gas by unscrewing gas valve until gas begins to escape through safety hole. When pressure is relieved, remove gas valve.

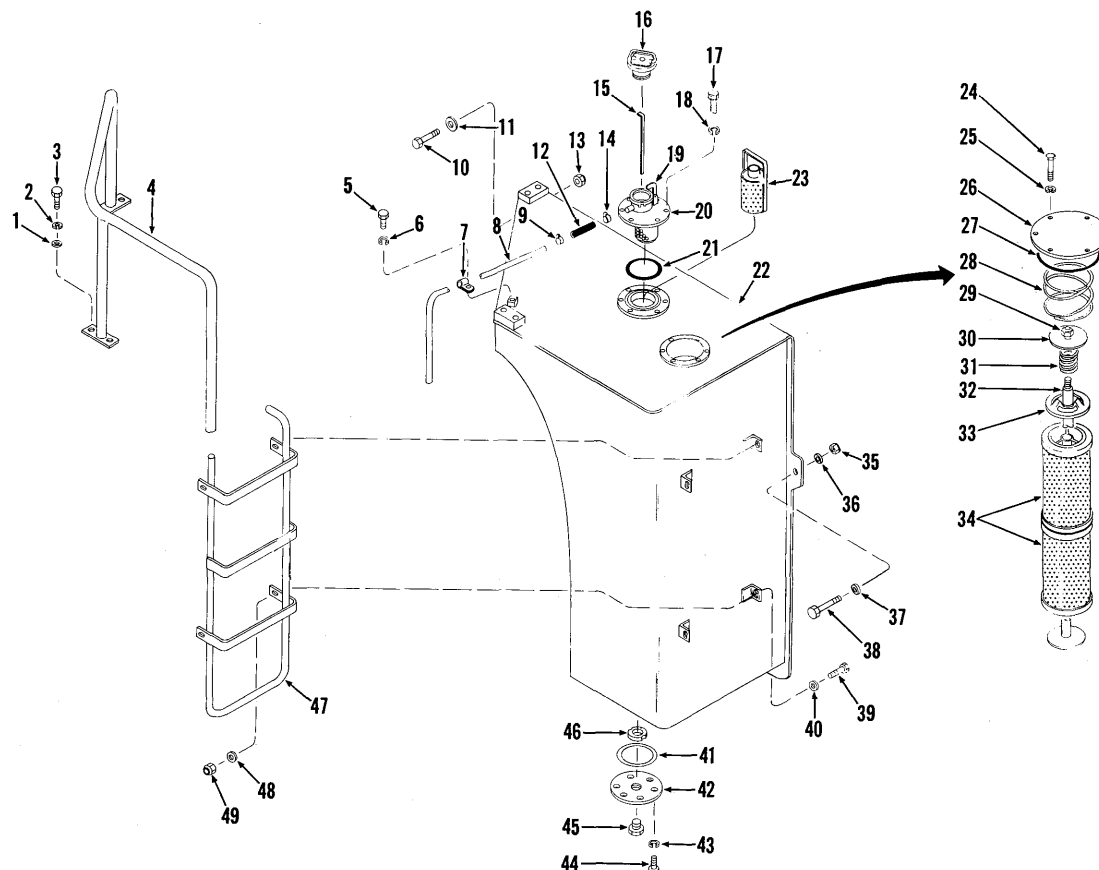
HYDRAULIC ACCUMULATOR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1512856	ACCUMULATOR ASSY (Inc. 1 thru 21A)	1	11	-----	§PISTON — (See "A")	1
B	949287	REPAIR KIT, Accumulator (Inc. 2, 4 thru 10, 13, 14, 18, 20, 20A, 21A)	1	12	-----	§CYLINDER — (See "A")	1
1	-----	OMIT	1	13	-----	§O-RING, Cap — (See "B")	1
2	-----	OMIT	1	14	-----	§RING, Back-Up — (See "B")	1
3	949290	CAP, Cylinder — Hydraulic End	1	15	949290	CAP, Cylinder — Gas End	1
4	-----	§RING, Back-Up — (See "B")	1	16	17E-10	LKWSHR, Protector	2
5	-----	§O-RING, Cap — (See "B")	1	17	85G-1008	SCREW, Protector	2
6	-----	§RING, Piston Wear — (See "B")	1	18	-----	§O-RING, Gas Valve — (See "B")	1
7	-----	§RING, Back-Up — (See "B")	1	19	949291	PROTECTOR, Valve	1
8	-----	§O-RING, Piston — (See "B")	1	20	-----	§CAP, Gas Valve — (See "B")	1
9	-----	§RING, Back-Up — (See "B")	1	20A	-----	†§CAP, Gas Valve Core Remover — (See "B")	1
10	-----	§RING, Piston Wear — (See "B")	1	21	944745	VALVE ASSY, Gas (Inc. 20, 21A)	1
				21A	-----	†§CORE, Gas Valve — (See "B" or 21)	1

†Not Illustrated

§Not Sold Separately

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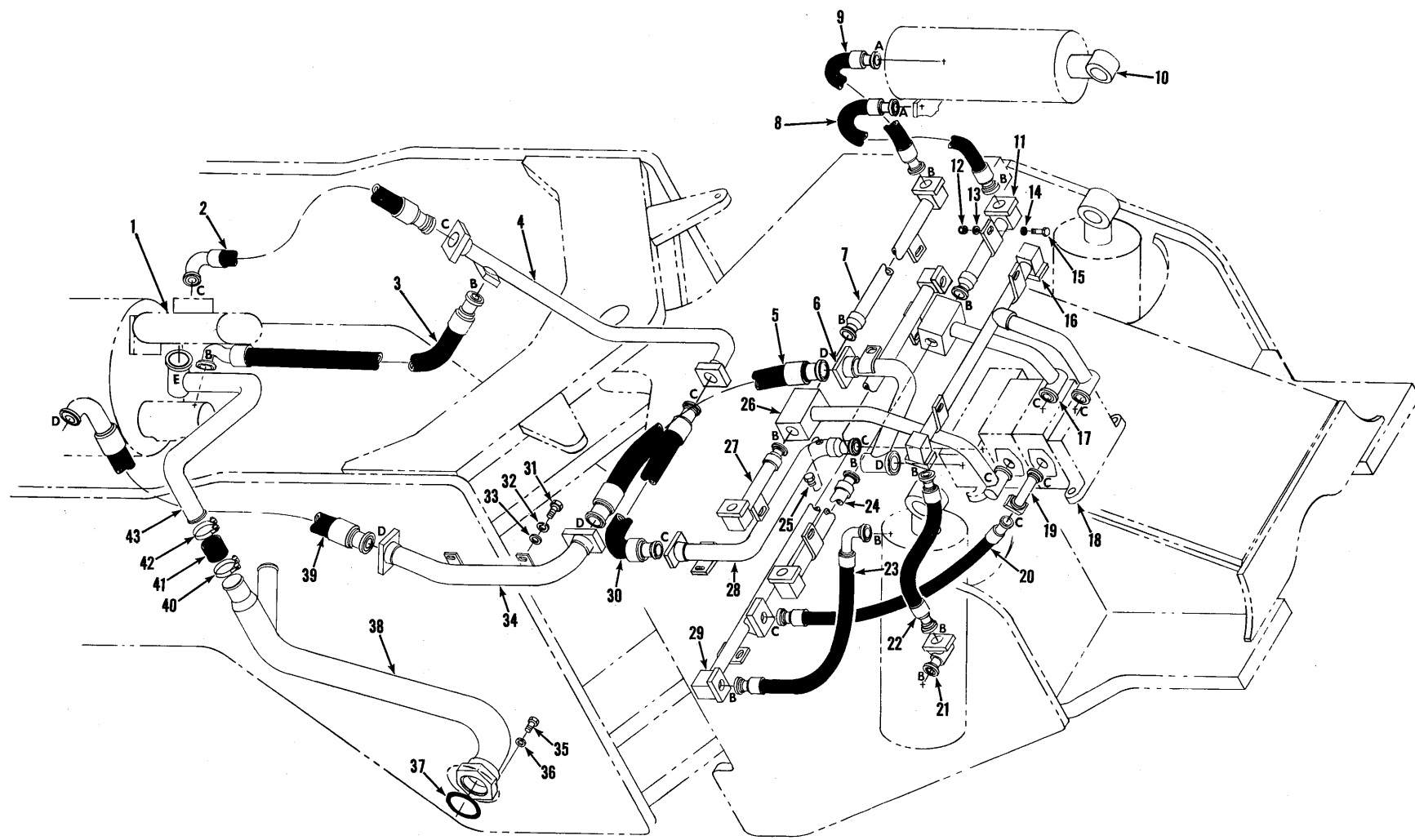
TS-10676

HYDRAULIC OIL RESERVOIR, FILTERS & STEP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	619029	WASHER, Hand Rail to Reservoir	4	25	4E-06	LKWSHR, Cover to Reservoir	6
2	4E-08	LKWSHR, Hand Rail to Reservoir	4	26	1529896	PLATE, Cover	1
3	24C-824	BOLT, Hand Rail to Reservoir	4	27	25K-40808	O-RING, Cover Plate	1
4	1544779	HAND RAIL — R.H.	1	28	1543238	SPRING, Cover Plate	1
5	24C-612	BOLT, Clamp to Reservoir	1	29	39D-06	NUT, Guide Rod	2
6	4E-06	LKWSHR, Clamp to Reservoir	1	30	1529704	WASHER, Guide Rod	1
7	30H-31	CLIP, Overflow Tube	1	31	1530598	SPRING, Retainer	1
8	567746	TUBE, Overflow	1	32	1529702	ROD, Guide	1
9	521874	CLAMP, Hose to Tube	1	33	1529679	RETAINER, Filter	1
10	24C-1260	BOLT, Reservoir to Frame Angle	2	34	1530600	FILTER, Return	2
11	616809	WASHER, Reservoir to Frame Angle	4	35	18D-12	NUT, Reservoir to Frame	1
12	743563	HOSE, Filler Neck to Tube (3½" lg.)	1	36	616809	WASHER, Reservoir to Frame	1
13	18D-12	NUT, Reservoir to Frame Angle	2	37	616809	WASHER, Reservoir to Frame	1
14	521874	CLAMP, Hose to Filler Neck	1	38	24C-1244	BOLT, Reservoir to Frame	1
15	1510095	DIPSTICK, Hydraulic Oil	1	39	24C-828	BOLT, Step to Reservoir	4
16	554843	CAP, Filler	1	40	619029	WASHER, Step to Reservoir	4
17	24C-612	BOLT, Filler Neck to Reservoir	6	41	25K-40428	O-RING, Plate to Reservoir	1
18	4E-06	LKWSHR, Filler Neck to Reservoir	6	42	587613	PLATE, Reservoir Inspection	1
19	1543512	LATCH, Cap Lock	1	43	4E-06	LKWSHR, Plate to Reservoir	6
19A	1H-414	†RIVET	1	44	24C-612	BOLT, Plate to Reservoir	6
20	567742	FILLER NECK (Inc. 19, 19A)	1	45	40K-16	PLUG, Inspection Plate	1
21	25K-40624	O-RING, Filler Neck to Reservoir	1	46	525293	MAGNET, Oil Reservoir	1
22	1538064	RESERVOIR, Hydraulic Oil	1	47	1544778	STEP — R.H.	1
23	1532445	FILTER, Suction	1	48	619029	WASHER, Step to Reservoir	4
24	24C-614	BOLT, Cover to Reservoir	6	49	18D-08	NUT, Step to Reservoir	4

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — BUCKET & BOOM
For Serial: 425A101 thru 317, 319 thru 325, 327 thru 336

TS-10633

[H6-1]

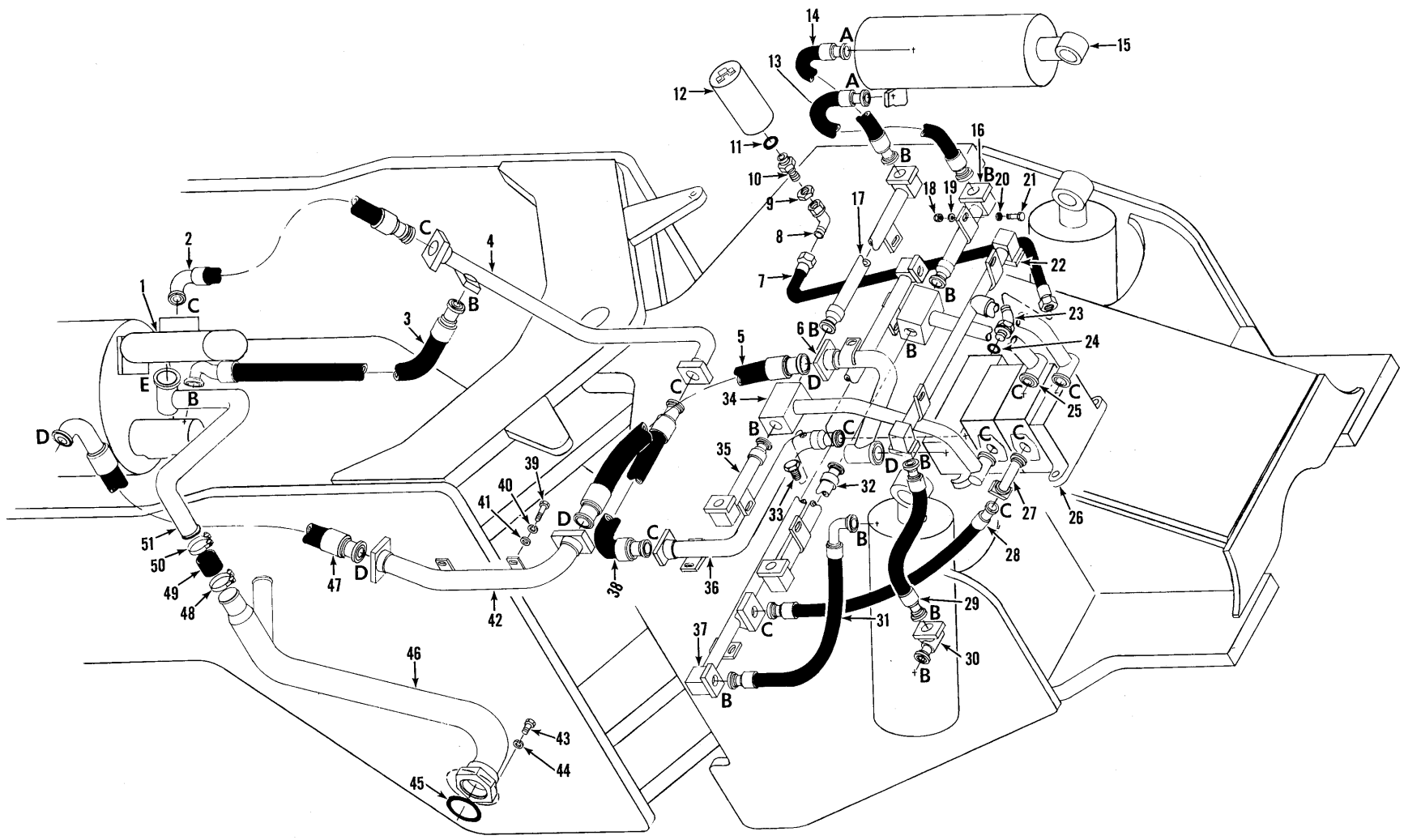
HYDRAULIC SYSTEM — BUCKET & BOOM
For Serial: 425A101 thru 317, 319 thru 325, 327 thru 336

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	PUMP, Main — See Index	—	23	1543542	HOSE, Cylinder to Tube	2
2	569499	HOSE, Pump to Tube	1	24	1543773	TUBE, Bucket Base — R.H.	1
3	948702	HOSE, Pump to Tube	1	25	40K-04	PLUG, Pipe	1
4	1538396	TUBE, Hose to Hose	1	26	1543731	TUBE, Bucket Rod	1
5	1546918	HOSE, Tube to Tube	1	27	1548655	TUBE, Bucket Rod — R.H.	1
6	1538421	TUBE, Valve to Hose	1	28	1538436	TUBE, Supply (Inc. 25)	1
7	1548654	TUBE, Bucket Rod — L.H.	1	29	1543858	TUBE, Boom Rod	1
8	1514649	HOSE, Tube to Cylinder	2	30	1538873	HOSE, Tube to Tube	1
9	1514649	HOSE, Tube to Cylinder	2	31	24C-820	BOLT, Tube Mounting	4
10	-----	CYLINDER, Bucket — See Index	—	32	4E-08	LKWSHR, Tube Mounting	4
11	1543750	TUBE, Bucket Base — L.H.	1	33	703891	WASHER, Tube Mounting	4
12	18D-08	NUT, Tube Mounting	10	34	1538443	TUBE, Hose to Hose	1
13	703891	WASHER, Tube Mounting	10	35	23C-1036	BOLT, Tube to Reservoir	4
14	703891	WASHER, Tube Mounting	10	36	4E-10	LKWSHR, Tube to Reservoir	4
15	24C-832	BOLT, Tube Mounting	10	37	1306626	O-RING, Tube to Reservoir	1
16	1543683	TUBE, Tube Boom Base	1	38	1538562	TUBE, Suction	1
17	1543700	TUBE, Tube to Valve	1	39	1546919	HOSE, Tube to Reservoir	1
18	-----	VALVE, Main — See Index	—	40	540106	CLAMP, Hose to Tube	1
19	1548635	TUBE, Boom Base	1	41	533478	HOSE, Tube to Tube	1
20	1523346	HOSE, Tube to Tube	1	42	540106	CLAMP, Hose to Tube	1
21	1509065	JOINT, Swivel	2	43	1538582	TUBE, Suction	1
22	1513747	HOSE, Tube to Cylinder	2				

NOTE: To determine part number of flange halves refer to letter designation on illustration, and then to Chart.

GROUP No. Req'd. Per Connection	FLANGE HALF 2	O-RING 1	BOLT 4	LKWSHR 4	SIZE
A	663093	1306622	23C-620	4E-06	1"
B	1511520	1306623	23C-724	4E-07	1¼"
C	1511521	1306624	23C-824	4E-08	1½"
D	1511522	1306625	23C-824	4E-08	2"
E	663097	886851	23C-828	4E-08	2½"

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — BUCKET & BOOM
For Serial: 425A318, 326, 337 thru 425A999

TS-11509 B

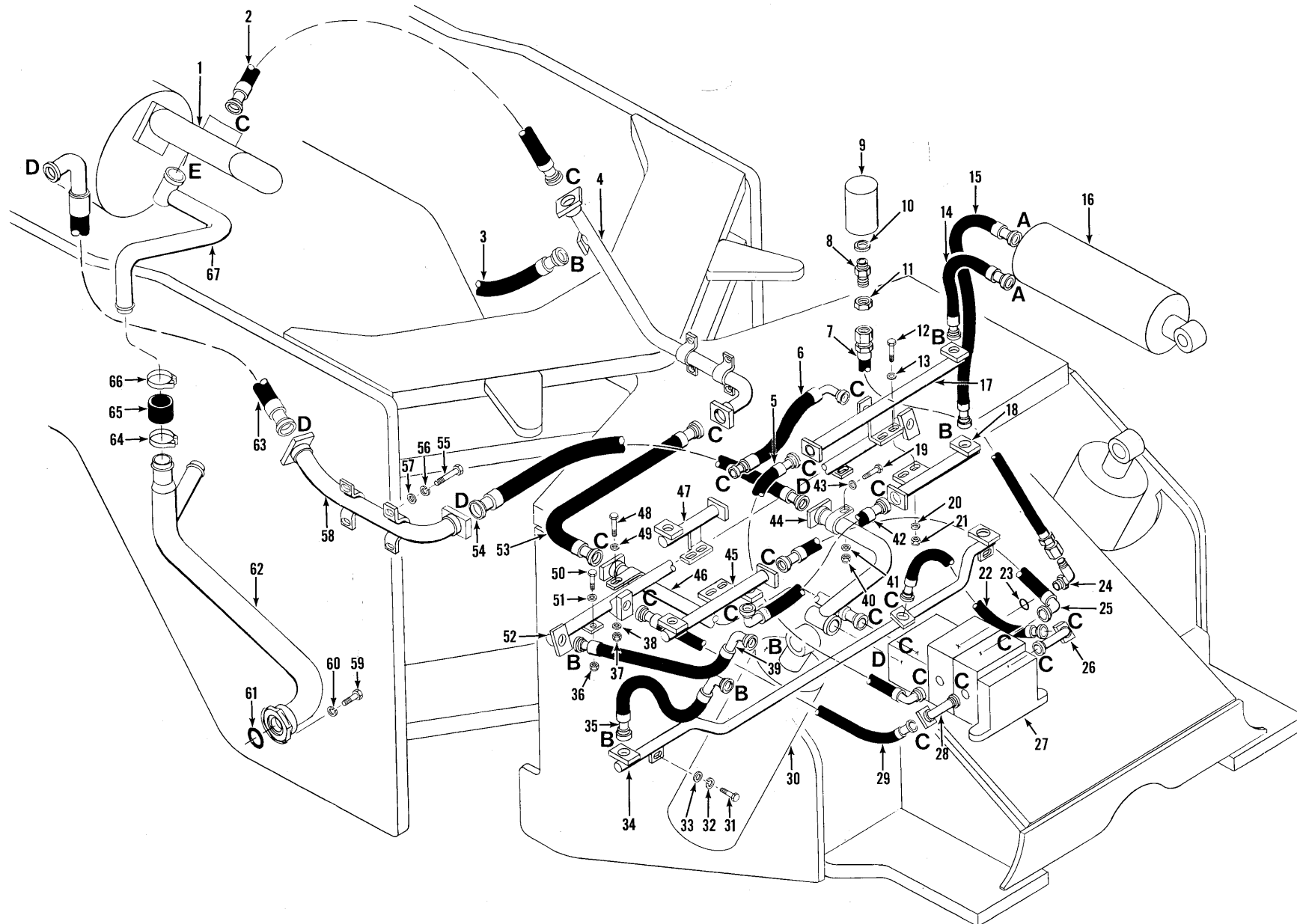
HYDRAULIC SYSTEM — BUCKET & BOOM**For Serial: 425A318, 326, 337 thru 425A999**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	———	PUMP, Main — See Index	—	26	———	VALVE, Main — See Index	—
2	569499	HOSE, Pump to Tube	1	27	1548635	TUBE, Boom Base	1
3	948702	HOSE, Pump to Tube	1	28	1523346	HOSE, Valve to Tube	1
4	1538396	TUBE, Hose to Hose	1	29	1513747	HOSE, Boom Base	2
5	1546918	HOSE, Tube to Tube	1	30	1509065	JOINT, Swivel	2
6	1538421	TUBE, Valve to Hose	1	31	1543542	HOSE, Cylinder to Tube	2
7	730468	HOSE, Valve to Accumulator	1	32	1543773	TUBE, Bucket Base — R.H.	1
8	11K-8	ELBOW, Hose to Union	1	33	40K-04	PLUG, Pipe	1
9	86F-8	NUT, Union	1	34	1543731	TUBE, Bucket Rod	1
10	1512855	UNION, Accumulator to Elbow (Inc. 11)	1	35	1548655	TUBE, Bucket Rod — R.H.	1
11	91F-8	O-RING, Union	1	36	1538436	TUBE, Hose to Hose	1
12	———	ACCUMULATOR — See Index	1	37	1543858	TUBE, Boom Rod	1
13	1514649	HOSE, Tube to Cylinder	2	38	1538873	HOSE, Tube to Tube	1
14	1514649	HOSE, Tube to Cylinder	2	39	24C-820	BOLT, Tube Mounting	4
15	———	CYLINDER, Bucket — See Index	—	40	4E-08	LKWSHR, Tube Mounting	4
16	1543750	TUBE, Bucket Base — L.H.	1	41	703891	WASHER, Tube Mounting	4
17	1548654	TUBE, Bucket Rod — L.H.	1	42	1538443	TUBE, Hose to Hose	1
18	18D-08	NUT, Tube Mounting	10	43	23C-1040	BOLT, Tube to Reservoir	4
19	703891	WASHER, Tube Mounting	10	44	4E-10	LKWSHR, Tube to Reservoir	4
20	703891	WASHER, Tube Mounting	10	45	1306626	O-RING, Tube to Reservoir	1
21	24C-832	BOLT, Tube Mounting	10	46	1538562	TUBE, Suction	1
22	1543683	TUBE, Boom Base	1	47	1546919	HOSE, Tube to Reservoir	1
23	17K-8	ELBOW, Valve to Hose	1	48	540106	CLAMP, Hose	1
24	91F-8	O-RING, Elbow	1	49	533478	HOSE, Tube to Tube	1
25	1543700	TUBE, Tube to Valve	1	50	540106	CLAMP, Hose	1
				51	1538582	TUBE, Suction	1

NOTE: To determine part number of flange halves refer to letter designation on illustration, and then to Chart.

GROUP No. Req'd. Per Connection	FLANGE HALF 2	O-RING 1	BOLT 4	LKWSHR 4	SIZE
A	663093	1306622	23C-620	4E-06	1"
B	1511520	1306623	23C-724	4E-07	1¼"
C	1511521	1306624	23C-824	4E-08	1½"
D	1511522	1306625	23C-824	4E-08	2"
E	663097	886851	23C-828	4E-08	2½"

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — BUCKET & BOOM
For Serial: 425B101 & After

TS-11525 B

HYDRAULIC SYSTEM — BUCKET & BOOM
For Serial: 425B101 & After

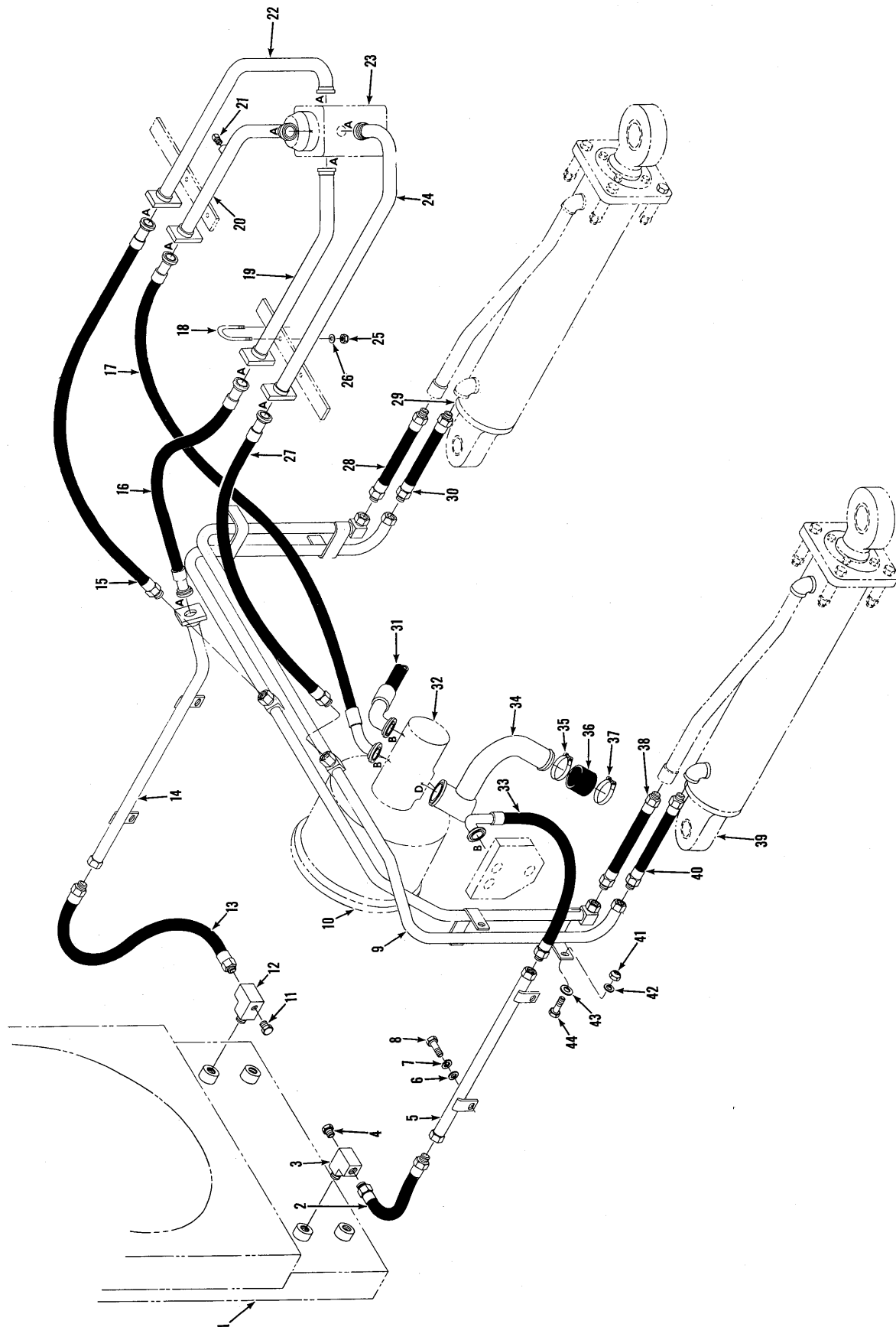
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	PUMP, Main — See Index	—	36	18D-08	NUT, Tube Mounting	2
2	1513126	HOSE, Pump to Tube	1	37	18D-08	NUT, Tube Mounting	1
3	948702	HOSE, Pump to Tube	1	38	703891	WASHER, Tube Mounting	1
4	1514435	TUBE, Hose to Hose	1	39	1510360	HOSE, Tube to Cylinder	2
5	1511637	HOSE, Tube to Valve	1	40	18D-08	NUT, Tube Mounting	1
6	1511635	HOSE, Tube to Tube	1	41	703891	WASHER, Tube Mounting	1
7	730468	HOSE, Accumulator to Valve	1	42	1511635	HOSE, Tube to Tube	1
8	1512855	CONNECTOR, Accumulator to Hose	1	43	703891	WASHER, Tube Mounting	1
9	-----	ACCUMULATOR — See Index	—	44	1538421	TUBE, Return	1
10	91F-8	O-RING, Connector	1	45	1511720	TUBE, Bucket Cylinder Base — R.H.	1
11	86F-8	NUT, Accumulator Mounting	1	46	1538436	TUBE, Supply (Inc. 46A)	1
12	24C-836	BOLT, Tube Mounting	4	46A	40K-04	†PLUG, Pipe	1
13	703891	WASHER, Tube Mounting	4	47	1511721	TUBE, Bucket Cylinder Rod — R.H.	1
14	1514649	HOSE, Tube to Cylinder	2	48	24C-828	BOLT, Tube Mounting	1
15	1514649	HOSE, Tube to Cylinder	2	49	703891	WASHER, Tube Mounting	1
16	-----	CYLINDER, Bucket — See Index	—	50	24C-828	BOLT, Tube Mounting	2
17	1511719	TUBE, Bucket Cylinder Rod — L.H.	1	51	703891	WASHER, Tube Mounting	2
18	1513030	TUBE, Bucket Cylinder Base — L.H.	1	52	1511722	TUBE, Boom Rod	1
19	24C-828	BOLT, Tube Mounting	1	53	1514275	HOSE, Tube to Tube	1
20	703891	WASHER, Tube Mounting	4	54	1514277	HOSE, Tube to Tube	1
21	18D-08	NUT, Tube Mounting	4	55	24C-820	BOLT, Tube Mounting	8
22	1511633	HOSE, Tube to Valve	1	56	4E-08	LKWSHR, Tube Mounting	8
23	91F-8	O-RING, Elbow	1	57	703891	WASHER, Tube Mounting	8
24	17K-8	ELBOW, Hose to Valve (Inc. 23)	1	58	1514434	TUBE, Return	1
25	1511636	HOSE, Tube to Valve	1	59	23C-1036	BOLT, Tube to Reservoir	4
26	1548635	ELBOW, Hose to Valve	1	60	4E-10	LKWSHR, Tube to Reservoir	4
27	-----	VALVE, Main — See Index	—	61	1306626	O-RING, Tube to Reservoir	1
28	1548635	ELBOW, Hose to Valve	1	62	1538562	TUBE, Suction	1
29	1513736	HOSE, Valve to Tube	1	63	1514276	HOSE, Tube to Reservoir — Return	1
30	-----	CYLINDER, Boom — See Index	—	64	540106	CLAMP, Hose	1
31	24C-824	BOLT, Tube Mounting	3	65	518330	HOSE, Tube to Tube	1
32	4E-08	LKWSHR, Tube Mounting	3	66	540106	CLAMP, Hose	1
33	703891	WASHER, Tube Mounting	3	67	1538582	TUBE, Suction	1
34	1511727	TUBE, Boom Base	1				
35	1511632	HOSE, Cylinder to Tube	2				

†Not Illustrated

GROUP	FLANGE HALF	O-RING	BOLT	LKWSHR	SIZE
No. Req'd. Per Connection	2	1	4	4	
A	663093	1306622	23C-620	4E-06	1"
B	1511520	1306623	23C-724	4E-07	1¼"
C	1511521	1306624	23C-824	4E-08	1½"
D	1511522	1306625	23C-824	4E-08	2"
E	663097	886851	23C-828	4E-08	2½"

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

TS-10622



HYDRAULIC SYSTEM — STEERING

HYDRAULIC SYSTEM — STEERING

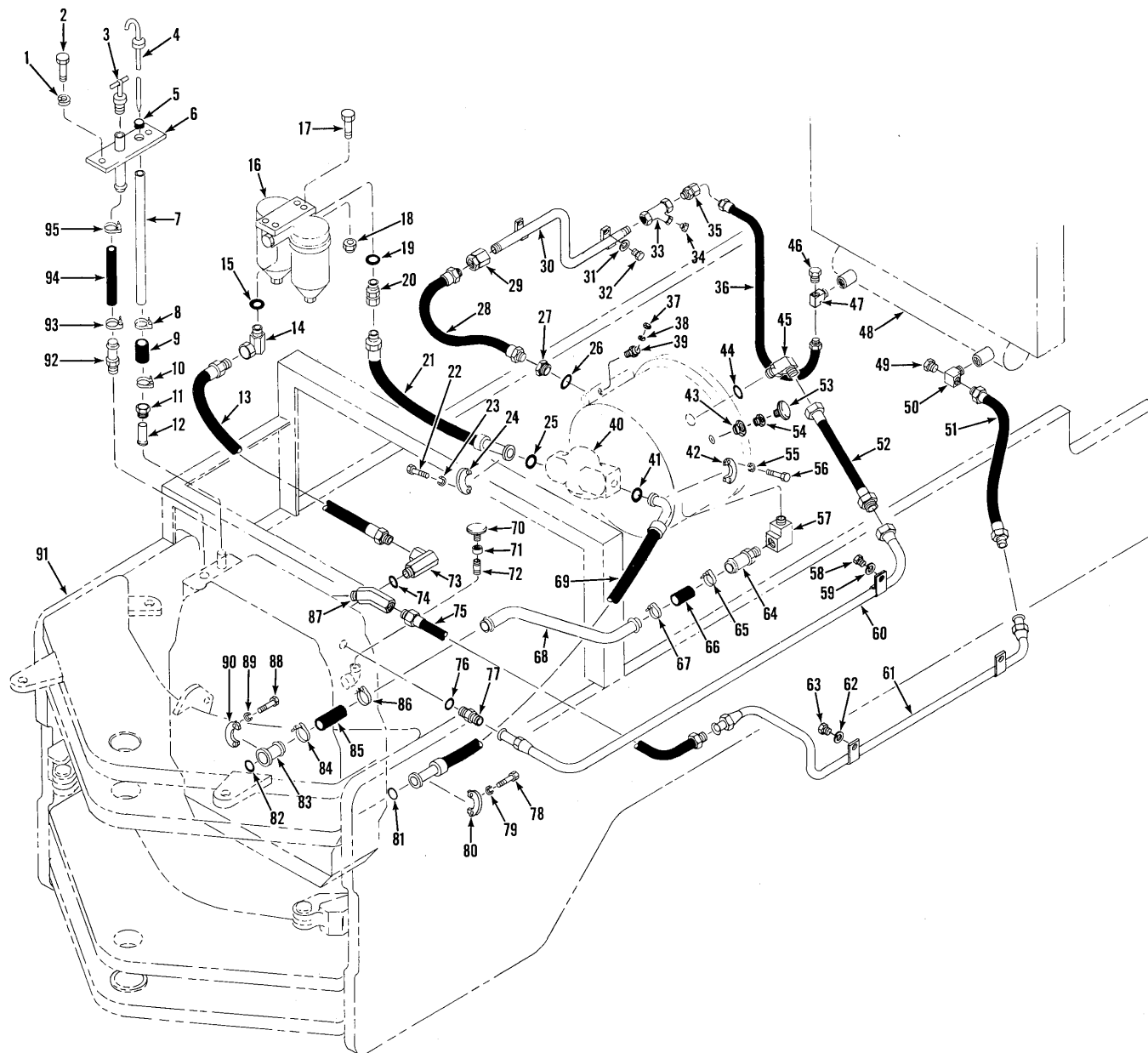
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	RADIATOR — See Index	—	23	-----	STEERING GEAR — See Index	—
2	539106	HOSE, Tube to Radiator	1	24	1542375	TUBE, Hose to Steering Gear	1
3	1542033	ELBOW, Hose to Cooler	1	25	18D-06	NUT, Tube to Clamp	8
4	40K-04	PLUG, Pipe	1	26	656672	WASHER, Tube to Clamp	8
5	1541679	TUBE, Cooler to Reservoir	1	27	533417	HOSE, Cross Tube to Tube	1
6	656672	WASHER, Tube to Frame	4	28	1541772	HOSE, Tube to Cylinder	1
7	4E-06	LKWSHR, Tube to Frame	4	29	-----	CYLINDER, Steering — See Index	—
8	24C-620	BOLT, Tube to Frame	4	30	1541772	HOSE, Tube to Cylinder	1
9	1541974	TUBE, Steering Cross	1	31	948702	HOSE, Pump to Main Hydraulic	1
10	-----	TORQUE CONVERTER — See Index	—	32	-----	STEERING PUMP — See Index	—
11	40K-04	PLUG, Pipe	1	33	1541770	HOSE, Reservoir to Tube	1
12	1511562	ELBOW, Hose to Cooler	1	34	1538584	SUCTION TUBE	1
12A	5K-824	†NIPPLE, Elbow to Cooler	1	35	540106	CLAMP, Hose to Tube	1
13	539106	HOSE, Tube to Cooler	1	36	533478	HOSE, Tube to Tube	1
14	1541969	TUBE, Cooler to Steer Gear	1	37	540106	CLAMP, Hose to Tube	1
15	533417	HOSE, Tube to Cross Tube	1	38	1541772	HOSE, Tube to Cylinder	1
16	1542395	HOSE, Cooler to Steering Gear	1	39	-----	CYLINDER, Steering — See Index	—
17	1545118	HOSE, Pump to Steering Gear	1	40	1541772	HOSE, Tube to Cylinder	1
18	1508514	CLAMP, Tube to Frame	4	41	18D-08	NUT, Tube to Frame	4
19	1542369	TUBE, Hose to Steering Gear	1	42	703891	WASHER, Tube to Frame	4
20	1542371	TUBE, Hose to Steering Gear (Inc. 21)	1	43	703891	WASHER, Tube to Frame	4
21	40K-04	PLUG, Pipe	1	44	24C-824	BOLT, Tube to Frame	4
22	1542373	TUBE, Hose to Steering Gear	1				

†Not Illustrated

NOTE: To determine part number of flange halves refer to letter designation on illustration, and then to Chart.

GROUP No. Req'd. Per Connection	FLANGE HALF 2	O-RING 1	BOLT 4	LKWSHR 4	SIZE
A	663093	1306622	23C-620	4E-06	1"
B	1511520	1306623	23C-724	4E-07	1¼"
C	1511521	1306624	23C-824	4E-08	1½"
D	663097	886851	17C-828	4E-08	2½"

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — TRANSMISSION & TORQUE CONVERTER

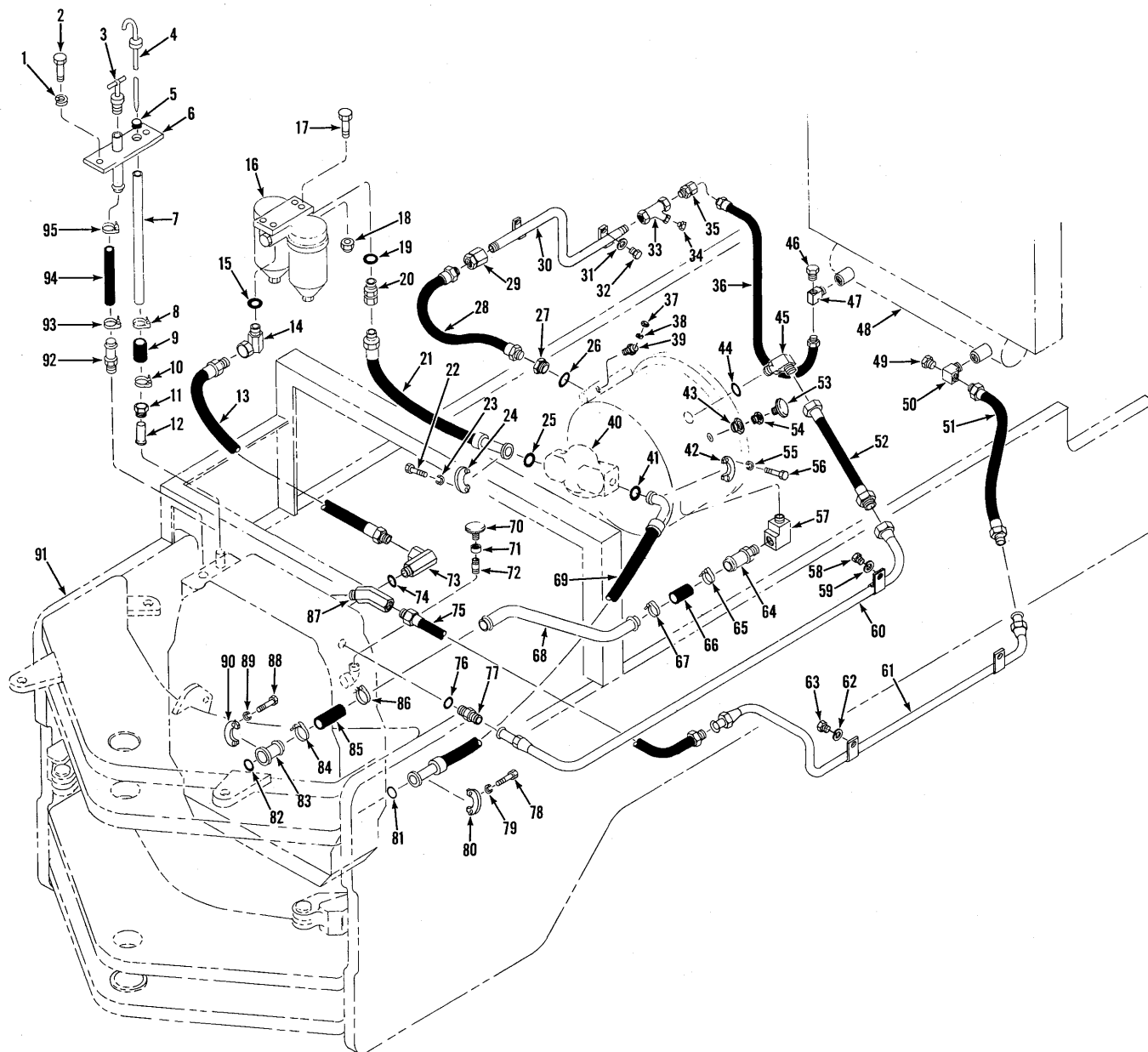
TS-10576

HYDRAULIC SYSTEM — TRANSMISSION & TORQUE CONVERTER

Item No.	Part No.	Description	No. Req'd.
1	4E-06	LKWSHR, Filler Plate	2
2	23C-616	BOLT, Filler Plate	2
3	568824	PLUG, Filler	1
4	572215	DIPSTICK, Oil Level	1
5	560640	GROMMET, Dipstick Tube	1
6	568807	PLATE, Filler	1
7	572213	TUBE, Dipstick	1
8	521874	CLAMP, Hose to Tube	1
9	743563	HOSE, Tube to Transmission Tube	1
10	521874	CLAMP, Hose to Tube	1
11	92F-7	FITTING, Tube to Transmission	1
12	1502876	TUBE, Hose to Transmission	1
13	546809	HOSE, Filter to Transmission	1
14	1520566	ADAPTER UNION (Inc. 15)	1
15	91F-10	O-RING, Adapter Union	1
16	228189	FILTER ASSY (Inc. 16A)	1
16A	215502	CARTRIDGE KIT, Filter	2
17	24C-724	BOLT, Filter Mounting	4
18	18D-07	NUT, Filter Mounting	4
19	91F-10	O-RING, Adapter	1
20	587075	ADAPTER, Hose to Filter (Inc. 19)	1
21	1541771	HOSE, Filter to Pump	1
22	23C-620	BOLT, Flange Half to Pump	4
23	4E-06	LKWSHR, Flange Half to Pump	4
24	663093	FLANGE HALF, Hose to Pump	2
25	1306622	O-RING, Hose to Pump	1
26	91F-11	O-RING, Adapter	1
27	588399	ADAPTER, Hose to Converter	1
28	539106	HOSE, Converter to Tube	1
29	37F-6	ADAPTER UNION, Hose to Tube	1
30	1541970	TUBE, Hose to Strainer	1
31	4E-06	LKWSHR, Tube to Frame	2
32	24C-620	BOLT, Tube to Frame	2
32A	656672	†WASHER, Tube to Frame	2
33	1533882	STRAINER, Oil (Inc. 33A & 34)	1
33A	946943	†SCREEN, Strainer	1
34	40K-12	PLUG, Strainer Pipe	1
35	36F-6	ADAPTER UNION	1
36	539106	HOSE, Strainer to Bottom Tank	1
37	14D-10	NUT, Sender	1
38	12E-10	LKWSHR, Sender	1
39	551323	SENDER UNIT, Converter Temperature	1
40	-----	PUMP, Converter Charging — See Index	—
41	1306623	O-RING, Hose to Pump	1
42	1511520	FLANGE HALF, Hose to Pump	2
43	356626	BUSHING, Reducing	1
44	91F-10	O-RING, Elbow	1
45	588820	ELBOW, Tube to Converter	1
46	40K-04	PLUG, Elbow	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



HYDRAULIC SYSTEM — TRANSMISSION & TORQUE CONVERTER

TS-10576

HYDRAULIC SYSTEM — TRANSMISSION & TORQUE CONVERTER (Continued)

Item No.	Part No.	Description	No. Req'd.
47	1542033	ELBOW, Hose to Bottom Tank	1
48	-----	RADIATOR — See Index	—
49	40K-04	PLUG, Elbow	1
50	1511562	ELBOW, Hose to Bottom Tank	1
50A	5K-820	†NIPPLE, Elbow to Bottom Tank	1
51	539106	HOSE, Tube to Bottom Tank	1
52	1541962	HOSE, Tube to Converter	1
53	211433	BREATHER, Air	1
54	227265	CHECK, Air Breather	1
55	4E-07	LKWSHR, Flange Half	4
56	23C-724	BOLT, Flange Half	4
57	29F-6	ELBOW, Converter Connecting	1
58	24C-616	BOLT, Tube to Frame	1
59	4E-06	LKWSHR, Tube to Frame	1
60	1541975	TUBE, Transmission to Converter	1
61	1541971	TUBE, Radiator to Transmission	1
62	4E-08	LKWSHR, Tube Mounting	2
63	24C-816	BOLT, Tube Mounting	2
64	592849	STEM, Hose to Elbow	1
65	1545004	CLAMP, Hose to Stem	1
66	585883	HOSE, Stem to Tube	1
67	1545004	CLAMP, Hose to Tube	1
68	1538613	TUBE, Converter Drain	1
69	1543547	HOSE, Converter to Transmission	1
70	211433	BREATHER, Air	1
71	75F-3	COUPLING, Pipe	1
72	5K-340	NIPPLE, Pipe	1
73	1520566	ADAPTER UNION (Inc. 74)	1
74	91F-10	O-RING, Adapter Union	1
75	539106	HOSE, Tube to Transmission	1
76	91F-10	O-RING, Connector	1
77	15K-10	CONNECTOR, Tube to Transmission (Inc. 76)	1
78	23C-824	BOLT, Flange Half to Transmission	4
79	4E-08	LKWSHR, Flange Half to Transmission	4
80	1511521	FLANGE HALF, Hose to Transmission	2
81	1306624	O-RING, Flange Half	1
82	1306624	O-RING, Flange Half	1
83	799020	STEM, Hose to Transmission	1
84	1545004	CLAMP, Hose to Stem	1
85	585883	HOSE, Tube to Stem	1
86	1545004	CLAMP, Hose to Tube	1
87	533480	ADAPTER UNION, Hose to Transmission (Inc. 87A)	1
87A	91F-10	†O-RING, Elbow	1
88	23C-824	BOLT, Flange Half to Transmission	4
89	4E-08	LKWSHR, Flange Half to Transmission	4
90	1511521	FLANGE HALF, Transmission to Transmission	2
91	-----	FRAME, Rear — See Index	—
92	667288	STEM, Filler Hose	1
92A	356621	†BUSHING, Reducing	1
93	1545186	CLAMP, Hose to Stem	1
94	568810	HOSE, Filler	1
95	1545186	CLAMP, Hose to Filler Plate	1

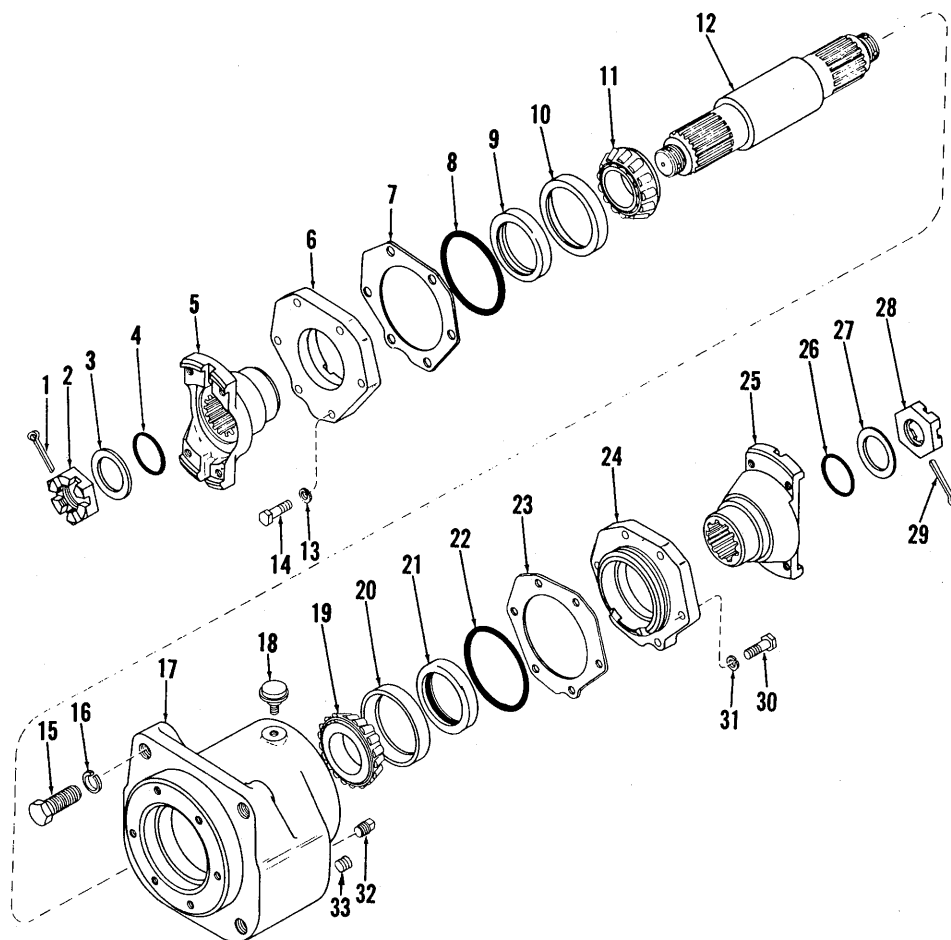
†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



**"M" GROUP
CONTENTS**

Mid-Mount Bearing Assembly M 2



TS-7923

MID-MOUNT BEARING ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	226705	BEARING ASSY, Mid-Mount (Inc. 1 thru 14, 17 thru 33)	1
1	1F-740	PIN, Flange Cotter	1
2	669897	NUT, Flange	1
3	217410	WASHER, Flange	1
4	25K-60212	O-RING, Flange	1
5	217471	FLANGE	1
6	226797	CAP, Bearing	1
7	217389	‡SHIM, Bearing Cap (.004)	—
7A	217390	†‡SHIM, Bearing Cap (.007)	—
7B	217391	†‡SHIM, Bearing Cap (.010)	—
8	25K-40428	O-RING, Bearing Cap	1
9	227154	SEAL, Bearing Cap	1
10	226026	CUP, Bearing	1
11	1305372	CONE, Bearing	1
12	226799	SHAFT, Mid-Mount Bearing	1
13	4E-08	LKWSHR, Bearing Cap to Housing	6
14	1C-828	BOLT, Bearing Cap to Housing	6
15	23C-1656	BOLT, Mid-Mount Bearing to Frame	4
16	4E-16	LKWSHR, Mid-Mount Bearing to Frame	4

Item No.	Part No.	Description	No. Req'd.
16A	619028	†WASHER, Mid-Mount Bearing to Frame	4
17	226798	HOUSING, Mid-Mount Bearing	1
18	211433	BREATHER, Mid-Mount Bearing	1
19	1305372	CONE, Bearing	1
20	226026	CUP, Bearing	1
21	227154	SEAL, Bearing Cap	1
22	25K-40428	O-RING, Bearing Cap	1
23	217389	‡SHIM, Bearing Cap (.004)	—
23A	217390	†‡SHIM, Bearing Cap (.007)	—
23B	217391	†‡SHIM, Bearing Cap (.010)	—
24	226797	CAP, Bearing	1
25	217471	FLANGE	1
26	25K-60212	O-RING, Flange	1
27	217410	WASHER, Flange	1
28	669897	NUT, Flange	1
29	1F-740	PIN, Flange Cotter	1
30	1C-828	BOLT, Bearing Cap to Housing	6
31	4E-08	LKWSHR, Bearing Cap to Housing	6
32	13F-12	PLUG	1
33	215757	PLUG, Drain	1

†Not Illustrated

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONSTRUCTION MACHINERY DIVISION



**"N" GROUP
CONTENTS**

Nameplate & DecalsN 2

NAMEPLATES & DECALS

Item No.	Part No.	Description	No. Req'd.
1	1511711	DECAL, Articulated Warning	2
2	1548364	DECAL, Brake System Warning	1
3	1513209	DECAL, Caution, Hydraulic Pressure	3
4	547851	DECAL, Clark Equipment	2
5	1549006	DECAL, Emergency Hand Valve	1
6	1523338	DECAL, Engine Oil Change	1
7	1510525	DECAL, Lubrication	1
8	547852	DECAL, Michigan	3
9	1513932	DECAL, Model	2
10	1549005	DECAL, Not For Parking	1
11	1512006	DECAL, Patent	1
12	1505581	DECAL, Safety Wiring	1
13	1511805	DECAL, Shift Quadrant	1
14	1513887	TAG, Steering Warning	1
15	1534502	DECAL, Transmission Filter	1
16	538256	DECAL, Transmission Drain	1
17	535649	PLATE, Michigan — Casting — Grille	1
17A	7G-418	SCREW, Plate Mounting	4
17B	20E-04	LKWSHR, Plate Mounting	4
18	1511710	PLATE, Operating Precautions	1
18A	65G-406	SCREW, Plate Mounting	4
19	1527430	PLATE, Reservoir Strainer Service	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



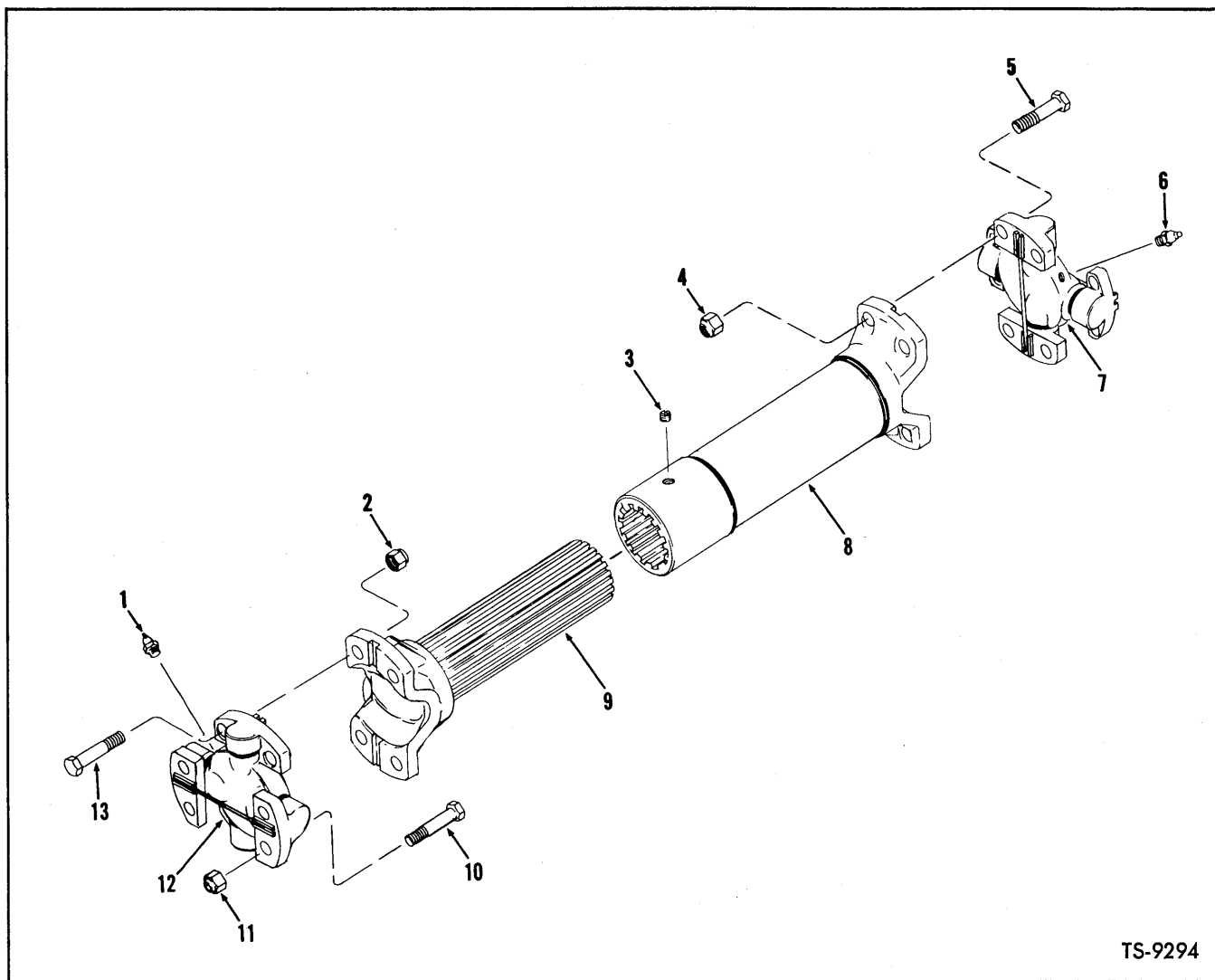
"P" GROUP
CONTENTS

Propeller Shafts P 2

Pump Group:

 Pump, Main Hydraulic P 6

 Pump, Steering Hydraulic P 8



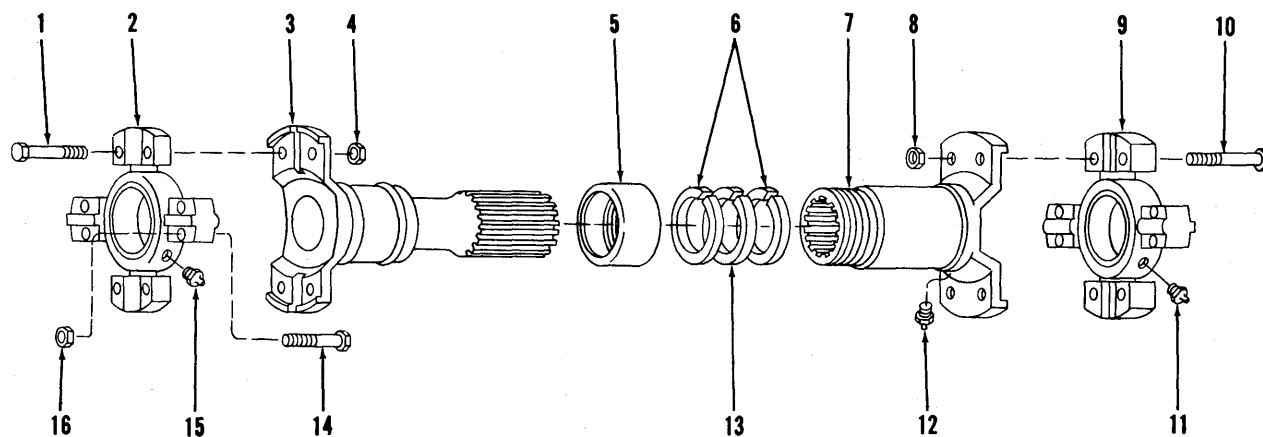
TS-9294

PROPELLER SHAFT ASSEMBLY — TRANSMISSION TO MID-MOUNT**For Serial: 425A101 thru 425A276**

Item No.	Part No.	Description	No. Req'd.
A	1539019	*PROP SHAFT ASSY (Inc. 1 thru 13)	1
1	710126	FITTING, Spider & Bearing Grease	1
2	8D-08	NUT, Spider & Bearing to Tube	4
3	15F-02	PLUG, Grease	1
4	8D-08	NUT, Spider & Bearing to Tube	4
5	947682	BOLT, Spider & Bearing to Tube	4
6	710126	FITTING, Spider & Bearing	1
7	943561	SPIDER & BEARING ASSY (Inc. 6)	1
8	948173	SLIP YOKE (Inc. 3)	1
9	948174	TUBE	1
10	947682	BOLT, Spider & Bearing Attaching	8
11	8D-08	NUT, Spider & Bearing Attaching	8
12	943561	SPIDER & BEARING ASSY (Inc. 1)	1
13	947682	BOLT, Spider & Bearing to Tube	4

*NOTE: For complete replacement use 1549490 Prop Shaft Assy.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



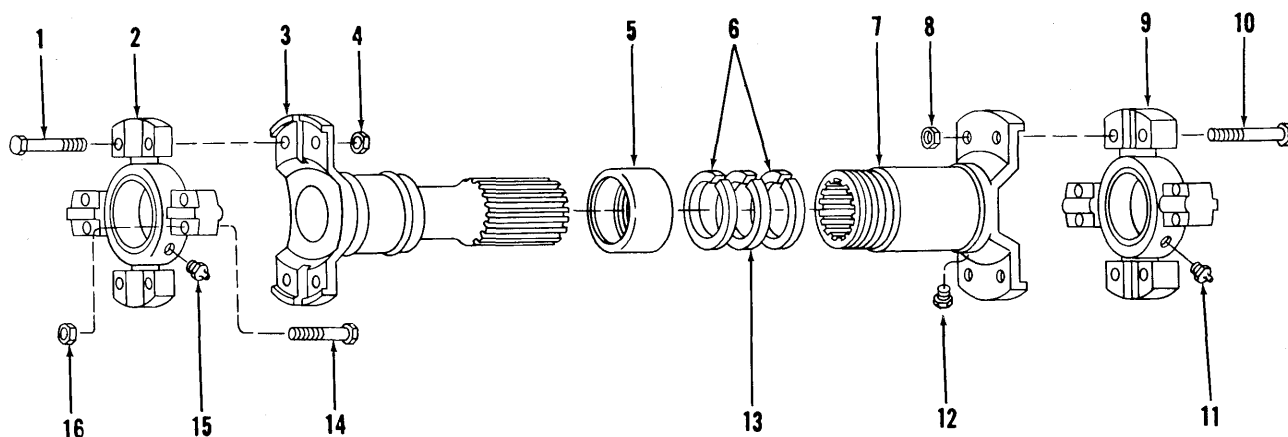
TS-1138

PROPELLER SHAFT ASSEMBLY — TRANSMISSION TO MID-MOUNT**For Serial: 425A277 & After**

Item No.	Part No.	Description	No. Req'd.
A	1549490	PROP SHAFT ASSY (Inc. 1 thru 16)	1
B	947331	KIT, Dust Cap (Inc. 5, 6, 13)	1
1	947682	BOLT, Spider & Bearing to Tube	4
2	948904	SPIDER & BEARING ASSY (Inc. 15)	1
3	948906	TUBE	1
4	66D-08	NUT, Spider & Bearing to Tube	4
5	-----	§RETAINER, Felt (See B)	1
6	-----	§WASHER, Felt Retainer (See B)	2
7	943442	SLIP YOKE, (Inc. 12)	1
8	66D-08	NUT, Spider & Bearing to Slip Yoke	4
9	948904	SPIDER & BEARING ASSY (Inc. 11)	1
10	947682	BOLT, Spider & Bearing to Slip Yoke	4
11	710126	FITTING, Spider & Bearing Grease	1
12	10H-25	FITTING, Slip Yoke Grease	1
13	-----	FELT WASHER — See "B"	1
14	947682	BOLT, Spider and Bearing Attaching	8
15	710126	FITTING, Spider & Bearing Grease	1
16	66D-08	NUT, Spider & Bearing Attaching	8

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

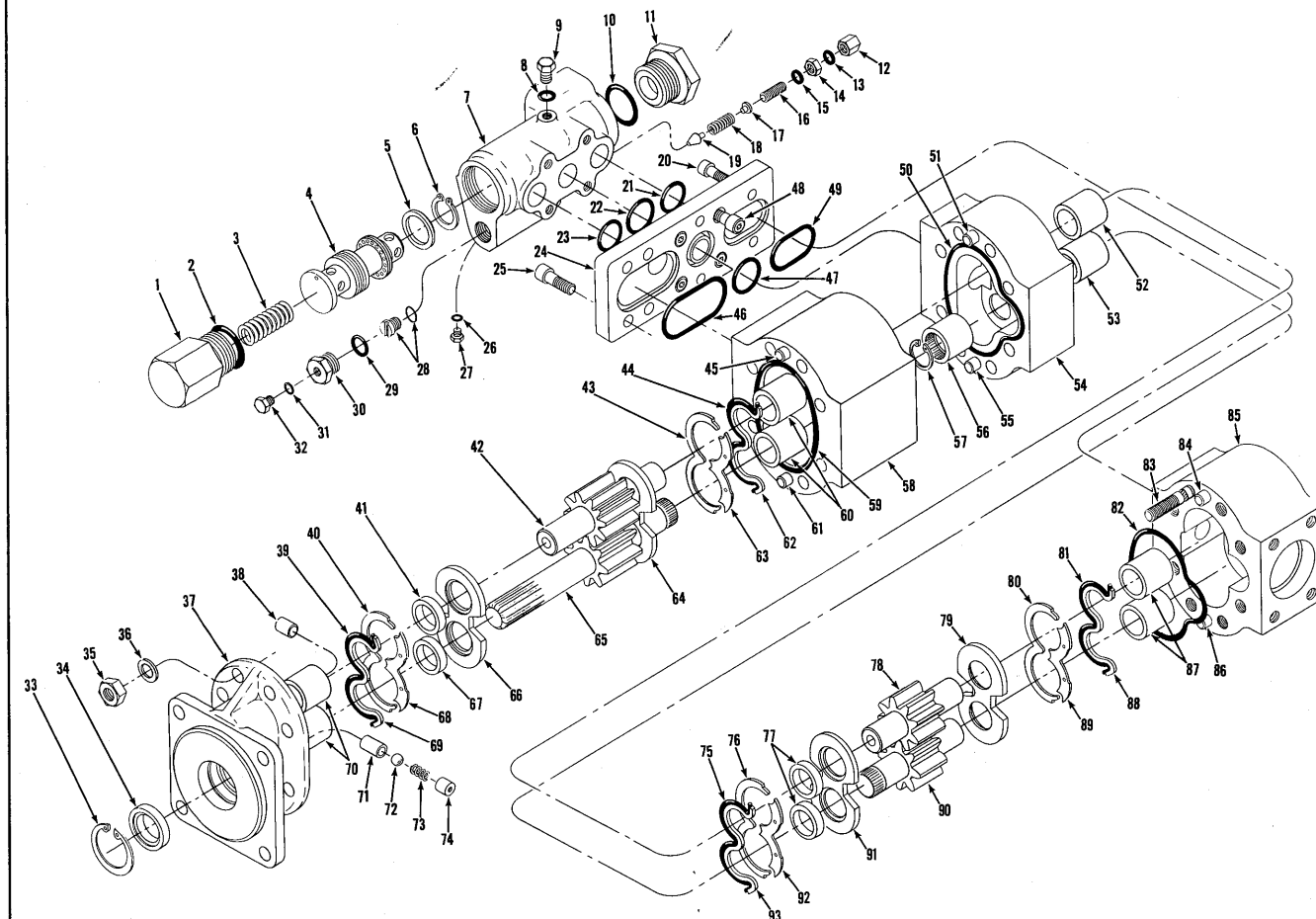


TS-9336

PROPELLER SHAFT ASSEMBLIES

Item No.	Mid-Mount Brg. to Front Axle	Transmission to Rear Axle	Transmission to Converter	Description	No. Req'd.
A	1539018	1537676	556432	PROP SHAFT ASSY (Inc. 1 thru 16)	1
B	947331	—	980615	KIT, Dust Cap (Inc. 5, 6, 13)	1
1	947682	947682	940229	BOLT, Spider & Bearing to Tube	4
2	943561	899602	946641	SPIDER & BEARING ASSY (Inc. 15)	1
3	948176	940257	946642	TUBE	1
4	8D-08	940227	8D-08	NUT, Spider & Bearing to Tube	4
5	943421	8D-08	See "B"	RETAINER, Felt	1
6	943431	948584	See "B"	WASHER, Felt Retainer	2
7	943442	8D-08	946643	SLIP YOKE (Inc. 12)	1
8	8D-08	940256	8D-08	NUT, Spider & Bearing to Tube	4
9	943561	899602	946641	SPIDER & BEARING ASSY (Inc. 11)	1
10	947682	947682	940229	BOLT, Spider & Bearing to Tube	4
11	710126	10H-25	10H-35	FITTING, Spider & Bearing Grease	1
12	15F-02	15F-02	15F-02	PLUG, Grease	1
13	943432	892853	See "B"	FELT WASHER	1
14	947682	947682	940229	BOLT, Spider & Bearing Attaching	8
15	710126	10H-25	10H-35	FITTING, Spider & Bearing Attaching	1
16	8D-08	8D-08	8D-08	NUT, Spider & Bearing Attaching	8

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11210

PUMP — MAIN HYDRAULIC

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1513226	PUMP ASSY (Inc. 1 thru 93)	1	E	948569	SEAL KIT, (Inc. 39, 40, 43, 44, 50, 59, 62, 69, 75, 76, 80, 81, 82, 88, 93) ..	1
B	949347	BODY KIT, Front (Inc. 41, 42, 45, 51, 55 thru 58, 60, 61, 65, 67)	1	F	949046	VALVE ASSY (Inc. 1 thru 19, 26 thru 32)	1
C	949338	BODY KIT, Rear (Inc. 52, 53, 54, 56, 57, 77, 78, 84, 85, 86, 87, 90)	1	G	948445	REPAIR KIT (Inc. 12 thru 19, 28A, 29) ..	1
D	948568	KIT, Pressure Plate (Inc. 39, 40, 43, 44, 50, 59, 62, 63, 64, 66, 68, 69, 75, 76, 79 thru 82, 88, 89, 91, 92, 93) ..	1	H	948445	REPAIR KIT (Inc. 2 thru 6, 10)	1
				1	948513	CAP, Valve	1
				2	91F-12	O-RING, Cap	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

PUMP — MAIN HYDRAULIC (Continued)

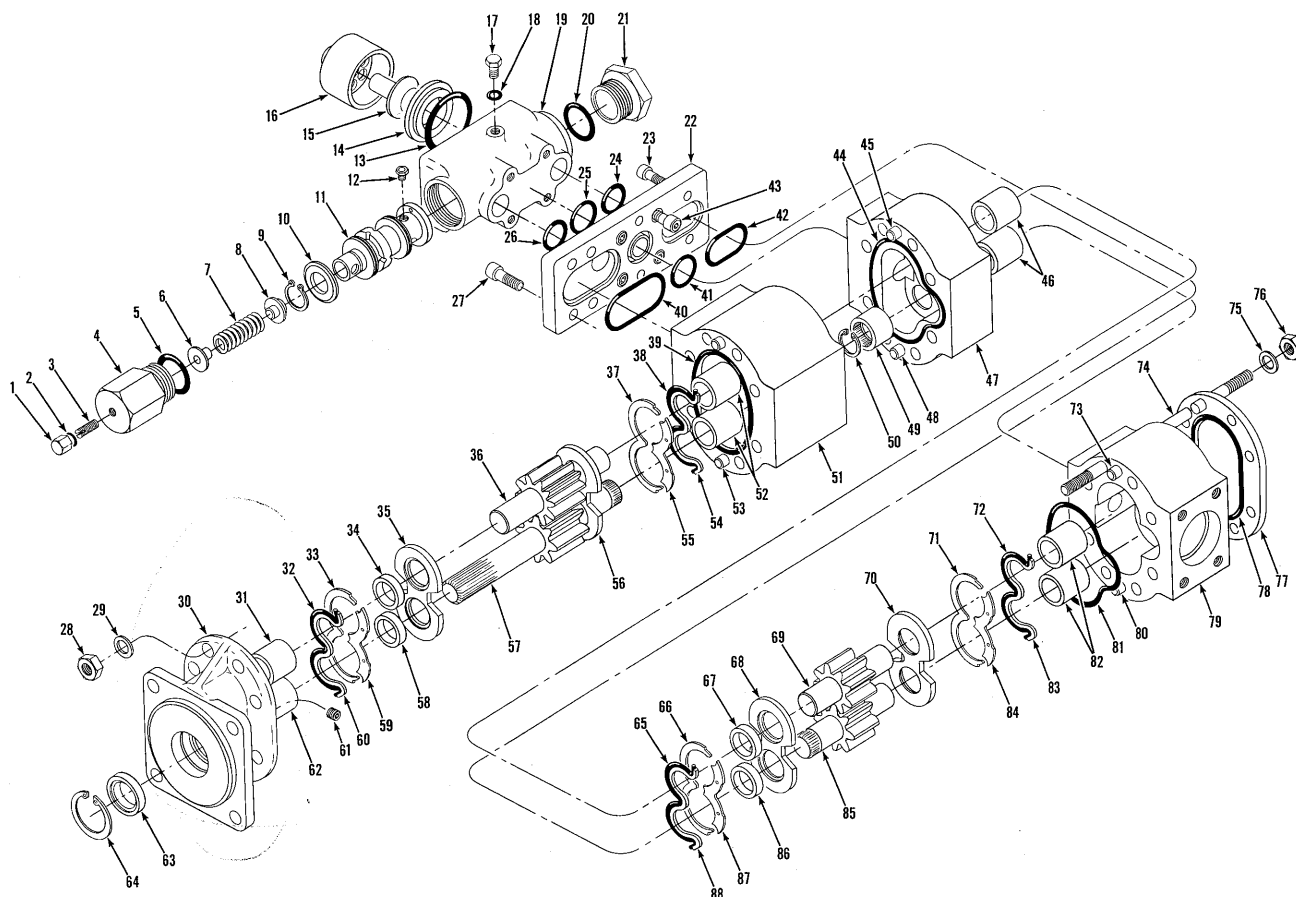
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
3	948442	SPRING, Spool	1	51	946100	DOWEL	1
4	948433	SPOOL, Valve	1	52	-----	*§BEARING, Sleeve — See "C"	—
5	948434	VALVE, Check	1	53	-----	*§BEARING, Sleeve — See "C"	—
6	9J-40	RING, Check Retaining	1	54	-----	§PLATE, Bearing — See "C"	—
7	948707	HOUSING, Valve	1	55	946100	DOWEL	1
8	91F-3	O-RING, Plug	1	56	948583	COUPLING, Spline	1
9	24K-3	PLUG, Pipe	1	57	664140	RING, Coupling Retainer	1
10	91F-12	O-RING, Cap	1	58	-----	§BODY, Front — See "B"	—
11	948436	CAP, Valve	1	59	947278	O-RING, Flange	1
12	948441	NUT, Acorn	1	60	-----	*§BEARING, Sleeve — See "B"	—
13	25K-20014	O-RING, Nut	1	61	946100	DOWEL	1
14	949041	NUT, Jam	1	62	947277	RING, Back-Up	1
15	25K-20014	O-RING, Nut	1	63	-----	§PLATE, Isolation — See "D"	—
16	15G-624	SCREW, Adjusting	1	64	-----	§PLATE, Pressure — See "D"	—
17	948437	GUIDE, Spring	1	65	-----	§GEAR, Drive — See "B"	—
18	1550490	SPRING, Poppet	1	66	-----	§PLATE, Pressure — See "D"	—
19	948438	POPPET	1	67	947209	RING, Spacer	1
20	73G-716	SCREW, Adapter to Pump	2	68	-----	§PLATE, Isolation — See "D"	—
21	893681	O-RING, Adapter to Valve	1	69	947277	RING, Back-Up	1
22	948512	O-RING, Adapter to Valve	1	70	-----	*§BEARING, Sleeve — See 37	—
23	893681	O-RING, Adapter to Valve	1	71	-----	§SEAT, Ball — See 37	—
24	948741	PLATE, Adapter	1	72	-----	§BALL, Check — See 37	—
25	73G-716	SCREW, Adapter to Pump	4	73	-----	§SPRING, Check — See 37	—
26	91F-1	O-RING, Plug	1	74	-----	§RETAINER, Spring — See 37	—
27	24K-4	PLUG, Pipe	1	75	-----	§O-RING, See "E"	—
28	948439	SEAT, Poppet	1	76	-----	§RING, Back-Up — See "E"	—
28A	949040	GASKET, Seat	1	77	947209	RING, Spacer	2
29	91F-7	O-RING, Cap	1	78	-----	§GEAR, Idle — See "C"	—
30	24K-7	PLUG, Relief Valve	1	79	-----	§PLATE, Pressure — See "D"	—
31	-----	OMIT	—	80	-----	§RING, Back-Up	—
32	-----	OMIT	—	81	-----	§O-RING, See "E"	—
33	661416	RING, Seal Retainer	1	82	-----	§O-RING, Bearing Plate — See "D"	—
34	946099	SEAL, Shaft Oil	1	83	948431	STUD, Pump Connecting	8
35	954277	NUT, Flange to Body	8	84	946100	DOWEL	1
36	946271	WASHER, Flange to Body	8	85	-----	BODY, Rear — See "C"	—
37	948451	FLANGE ASSY (Inc. 38, 70 thru 74)	1	86	946100	DOWEL	1
38	-----	§PLUG, Flange — See 37	—	87	-----	*§BEARING, Sleeve — See "C"	—
39	-----	§O-RING, See "E"	—	88	947277	RING, Back-Up	1
40	-----	§RETAINER, O-Ring — See "E"	—	89	-----	§PLATE, Isolation — See "D"	—
41	947209	RING, Spacer	1	90	-----	§GEAR, Drive — See "C"	—
42	-----	§GEAR, Idler — See "B"	—	91	-----	§PLATE, Pressure — See "D"	—
43	-----	§RETAINER, O-Ring — See "E"	—	92	-----	PLATE, Isolation — See "E"	—
44	-----	§O-RING — See "E"	—	93	947277	RING, Back-Up	1
45	946100	DOWEL	1	94	571511	†STUD, Pump Mounting	4
46	945313	O-RING, Adapter to Pump	1	95	4E-08	†LKWSHR, Pump Mounting	4
47	25K-40114	O-RING, Adapter to Pump	1	96	62D-08	†NUT, Pump Mounting	4
48	11G-614	SCREW, Adapter to Valve	6	97	552161	†GASKET, Pump to Converter	1
49	948514	O-RING, Adapter to Pump	1	98	219413	†SLEEVE, Pump Drive (Inc. 99)	1
50	-----	§O-RING, Bearing Plate — See "E"	—	99	-----	†RING, Sleeve Retaining	1

§Not Sold Separately

†Not Illustrated

*NOTE: Pump is equipped with bushing type bearings. Bearings are machine finished after pressing in place and therefore are not replaceable service items.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10656

PUMP — STEERING HYDRAULIC

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1543435	PUMP ASSY (Inc. 1 thru 88)	1	E	948565	PRESSURE PLATE KIT (Inc. 32, 33, 35, 37, 38, 39, 44, 56, 59, 65, 66, 68, 70, 71, 80, 83, 84, 87, 88)	1
B	948751	BODY KIT, Front (Inc. 34, 36, 39, 49, 50, 51, 52, 53, 57, 58)	1	F	948561	SERVICE KIT, Spool (Inc. 5, 7, 9, 11, 20)	1
C	948567	BODY KIT, Rear (Inc. 49, 50, 67, 69, 73, 79, 80, 82, 85)	1	G	948446	SEAL KIT, Valve Adapter (Inc. 24, 25, 26, 40, 41, 42)	1
D	948566	SEAL KIT (Inc. 32, 33, 39, 44, 54, 60, 63, 65, 66, 71, 72, 78, 80, 83, 88)	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

PUMP — STEERING HYDRAULIC (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	948591	NUT, Acorn	1	46	-----	§BEARING, Sleeve — See 47	—
2	25K-20014	O-RING, Nut	1	47	948769	PLATE, Bearing	1
3	948592	SCREW, Adjusting	1	48	946100	DOWEL	1
4	948582	PLUG, Valve	1	49	948583	COUPLING, Spline	1
5	91F-12	O-RING, Plug	1	50	664140	RING, Coupling Retaining	1
6	948590	RETAINER, Spring	1	51	-----	§BODY, Front — See "B"	—
7	948705	SPRING, Plunger Return	1	52	-----	§BEARING, Sleeve — See "B"	—
8	948589	RETAINER, Spring	1	53	946100	DOWEL	2
9	9J-40	RING, Snap	1	54	947277	RING, Back-Up	1
10	948434	CHECK	1	55	-----	§PLATE, Pressure — See "E"	—
11	948771	SPOOL, Valve	1	56	-----	§PLATE, Pressure — See "E"	—
12	948595	PLUG, Orifice	1	57	-----	§GEAR, Drive — See "B"	—
12A	948594	†PLUG, Orifice	2	58	947209	RING, Spacer	1
12B	948593	†PLUG, Orifice	1	59	-----	§PLATE, Pressure — See "E"	—
13	25K-20108	O-RING, Seat	1	60	947277	RING, Back-Up	1
14	948572	SEAT, Check Valve	1	61	-----	§PLUG, Cover — See 30	—
15	948571	PISTON, Check Valve	1	62	-----	§BEARING, Sleeve — See 30	—
16	948570	RETAINER, Check Valve	1	63	946099	SEAL, Cover	1
17	24K-3	PLUG, Pipe (Inc. 18)	2	64	661416	RING, Seal Retaining	1
18	91F-3	O-RING, Plug	2	65	-----	§O-RING — See "D"	—
19	948770	HOUSING, Valve	1	66	947275	RETAINER, O-Ring	1
20	91F-12	O-RING, Plug	1	67	947209	RING, Spacer	1
21	948581	PLUG, Housing	1	68	-----	§PLATE, Pressure — See "E"	—
22	948772	PLATE, Valve Adapter	1	69	-----	§GEAR, Idler — Rear — See "C"	—
23	73G-716	BOLT, Plate to Pump	3	70	-----	§PLATE, Pressure — See "E"	—
24	893681	O-RING, Plate to Valve	1	71	947275	RETAINER, O-Ring	1
25	948512	O-RING, Plate to Valve	1	72	-----	§O-RING — See "D"	—
26	893681	O-RING, Plate to Valve	1	73	946100	DOWEL	1
27	73G-716	BOLT, Plate to Pump	3	74	948573	STUD, Pump Connecting	8
28	954277	NUT, Pump Attaching	8	75	946271	WASHER, Pump Connecting	8
29	946271	WASHER, Pump Attaching	8	76	954277	NUT, Pump Connecting	8
30	948562	FLANGE ASSY (Inc. 31, 61, 62)	1	77	947208	PLATE, Cover	1
31	-----	§BEARING, Sleeve	—	78	25K-40328	O-RING, Cover	1
32	-----	§O-RING — See "D"	—	79	-----	BODY, Rear — See "C"	—
33	947275	RETAINER, O-Ring	1	80	946100	DOWEL	1
34	947209	RING, Spacer	1	81	-----	§O-RING — See "D"	—
35	-----	§PLATE, Pressure — See "D"	—	82	-----	§BEARING, Sleeve — Rear — See "C"	—
36	-----	§GEAR, Front Idler — See "B"	—	83	947277	RING, Back-Up	1
37	947275	RETAINER, O-Ring	1	84	-----	§PLATE, Pressure — See "E"	—
38	-----	§O-RING — See "D"	—	85	-----	GEAR, Drive — Rear — See "C"	—
39	947278	O-RING, Flange to Body	1	86	947209	RING, Spacer	1
40	945313	O-RING, Pump to Adapter Plate	1	87	-----	PLATE, Pressure — See "E"	—
41	25K-40114	O-RING, Pump to Adapter Plate	1	88	947277	RING, Back-Up	1
42	948514	O-RING, Pump to Adapter Plate	1	89	571511	†STUD, Pump Mounting	4
43	73G-716	BOLT, Valve to Adapter Plate	6	90	4E-08	†LKWSHR, Pump Mounting	4
44	-----	§O-RING — See "D"	—	91	62D-08	†NUT, Pump Mounting	4
45	946100	DOWEL	1	92	552161	†GASKET, Pump to Converter	1
				93	219413	†SLEEVE, Drive	1

†Not Illustrated

§Not Sold Separately

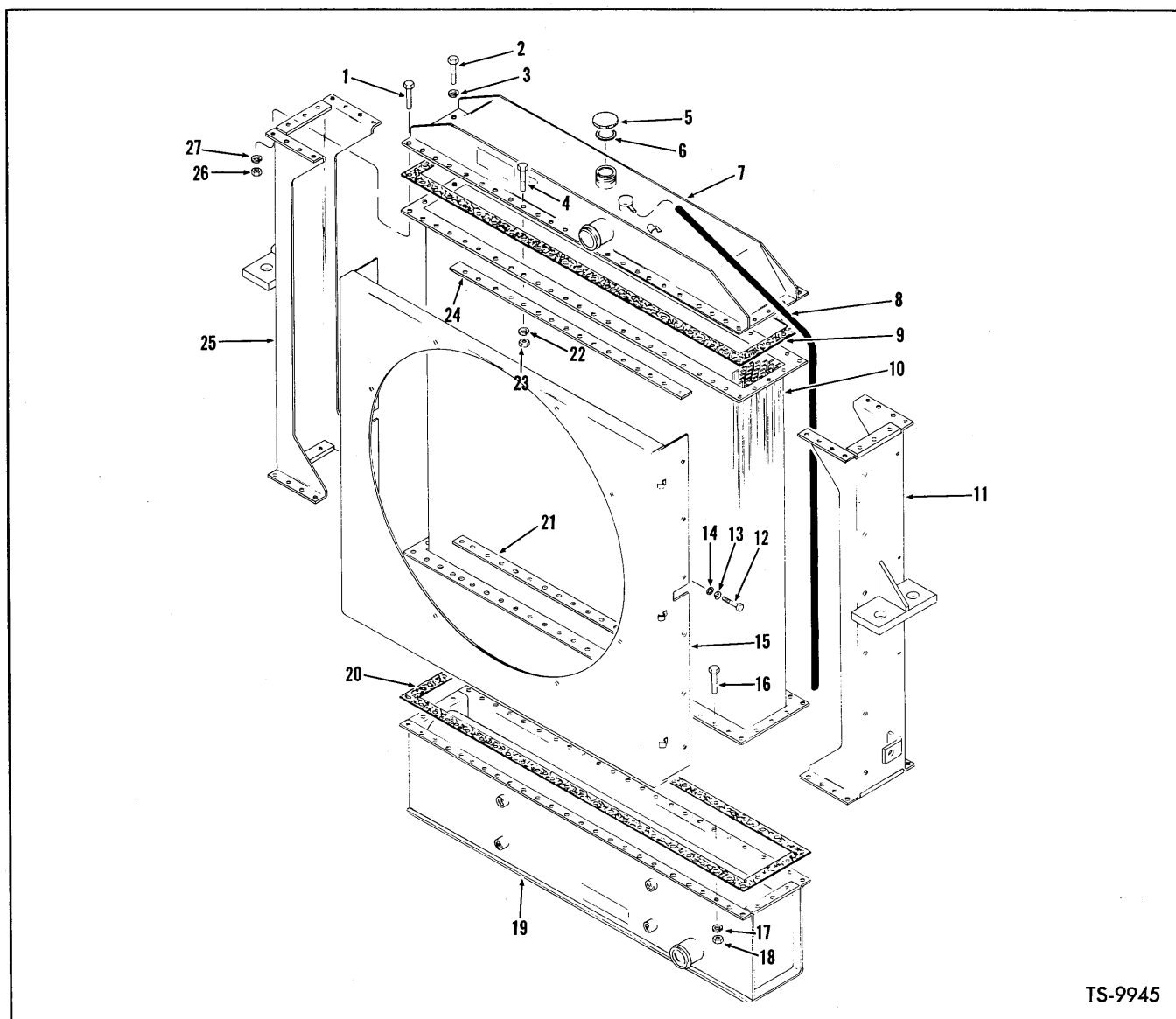
NOTE: Pump is equipped with Bushing Type Bearings. Bearings are machine finished after pressing in place and therefore are not replaceable service items.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



"R" GROUP
CONTENTS

Radiator Assembly	R 2
Radiator Connections	R 4



TS-9945

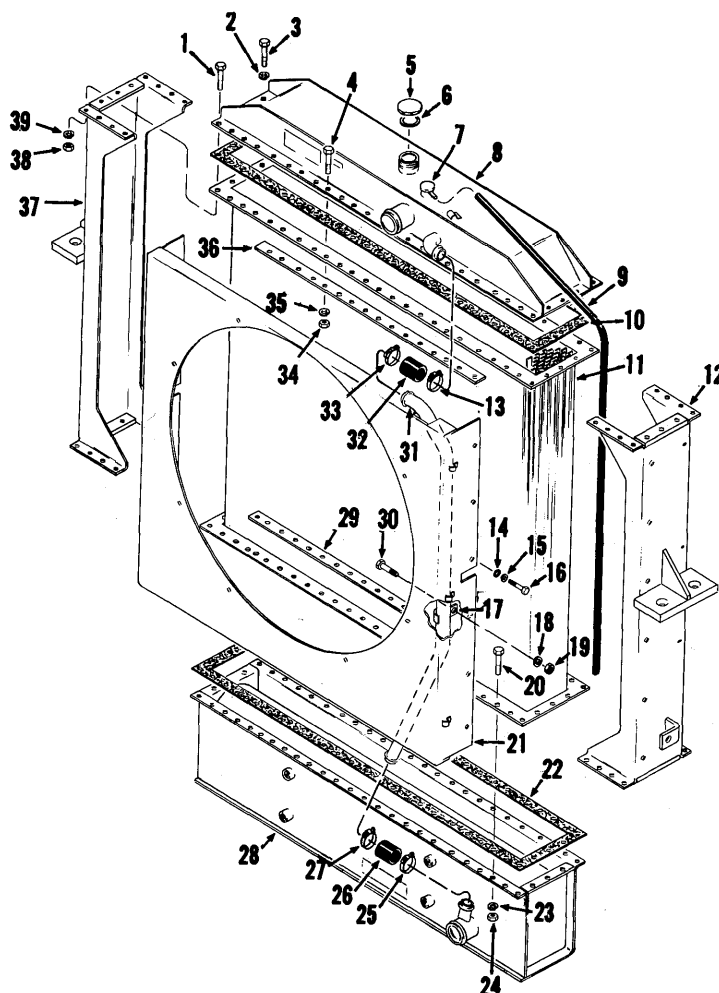
RADIATOR ASSEMBLY

For Serial: 425A101 thru 246

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1545123	RADIATOR ASSY (Inc. 1 thru 27)	1	14	655630	WASHER, Shroud to Side Member	12
1	1C-616	BOLT, Tank to Core	24	15	948531	SHROUD, Radiator	1
2	1C-616	BOLT, Tank to Core	12	16	1C-618	BOLT, Tank to Core	52
3	4E-06	LKWSHR, Tank to Core	12	17	4E-06	LKWSHR, Tank to Core	52
4	1C-616	BOLT, Tank to Core	16	18	1D-06	NUT, Tank to Core	52
5	539195	CAP, Radiator (Inc. 6)	1	19	948532	BOTTOM TANK	1
6	539318	GASKET, Radiator Cap	1	20	948535	GASKET, Bottom Tank to Core	1
7	948530	TOP TANK (Inc. 7A)	1	21	948536	HEADER BAR	2
7A	945782	† VALVE, Pressure Relief	1	22	4E-06	LKWSHR, Tank to Core	16
8	945460	HOSE, Overflow	1	23	1D-06	NUT, Tank to Core	16
9	948534	GASKET, Top Tank to Core	1	24	948536	HEADER BAR	2
10	948533	CORE	1	25	947797	SIDE MEMBER — R.H.	1
11	947798	SIDE MEMBER — L.H.	1	26	1D-06	NUT, Tank to Core	12
12	1C-512	BOLT, Shroud to Side Member	12	27	4E-06	LKWSHR, Tank to Core	20
13	4E-05	LKWSHR, Shroud to Side Member	12				

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



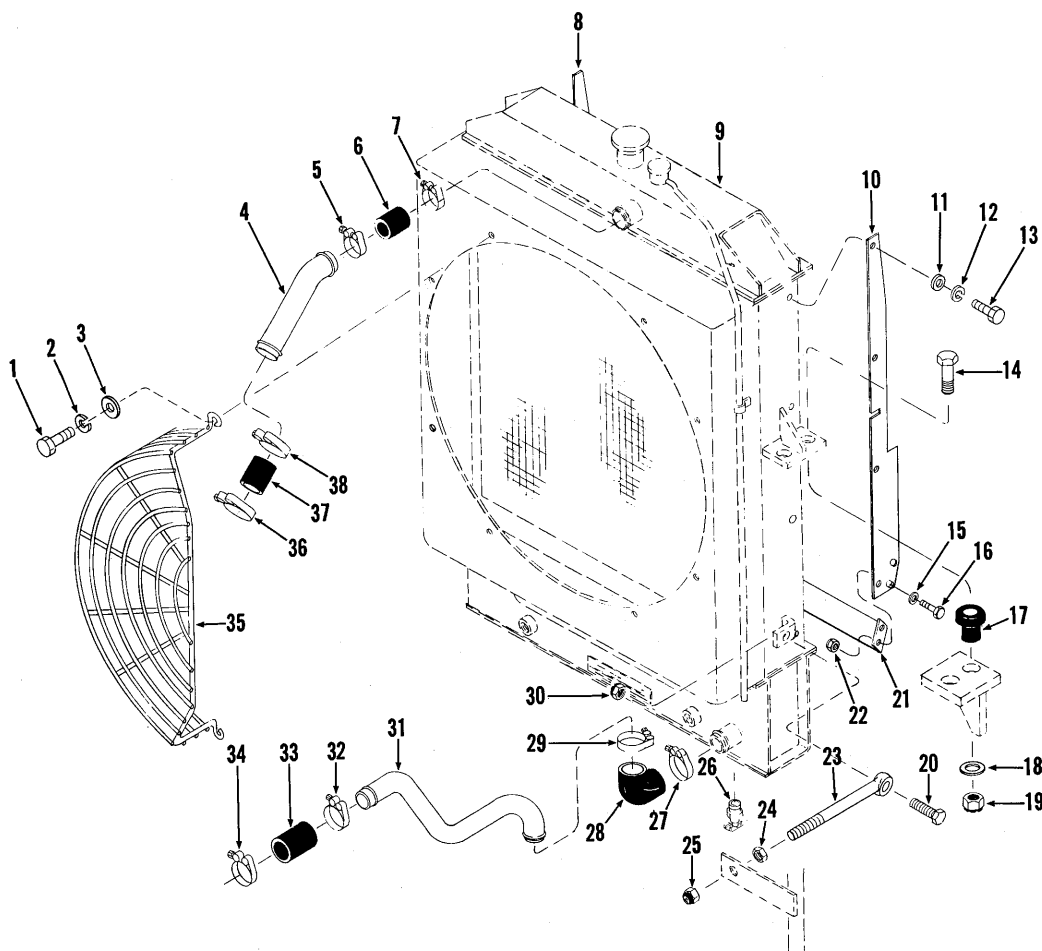
TS-11190

RADIATOR ASSEMBLY

For Serial: 425A247 & After

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1510492	RADIATOR ASSY (Inc. 1 thru 39)	1	20	1C-618	BOLT, Tank to Core	52
1	1C-616	BOLT, Tank to Core	24	21	949071	SHROUD, Radiator	1
2	4E-06	LKWSHR, Tank to Core	12	22	948535	GASKET, Core to Tank	1
3	1C-616	BOLT, Tank to Core	12	23	4E-06	LKWSHR, Core to Tank	52
4	1C-616	BOLT, Tank to Core	16	24	1D-06	NUT, Core to Tank	52
5	539195	CAP, Radiator (Inc. 6)	1	25	949074	CLAMP, Hose to Tank	1
6	539318	GASKET, Radiator Cap	1	26	949073	HOSE, Tube to Tank	1
7	945782	VALVE, Radiator Pressure	1	27	949074	CLAMP, Hose to Tube	1
8	949068	TOP TANK (Inc. 7)	1	28	949076	BOTTOM TANK	1
9	945460	HOSE, Overflow	1	29	948536	HEADER BAR	2
10	948534	GASKET, Top Tank to Core	1	30	1C-410	BOLT, Clip to Shroud	1
11	948533	CORE	1	31	949072	TUBE	1
12	949069	SIDE MEMBER — L.H.	1	32	949073	HOSE, Tube to Tank	1
13	949074	CLAMP, Hose to Tank	1	33	949074	CLAMP, Hose to Tube	1
14	655630	WASHER, Shroud to Side Member	12	34	1D-06	NUT, Tank to Core	16
15	4E-05	LKWSHR, Shroud to Side Member	12	35	1E-06	LKWSHR, Tank to Core	16
16	1C-514	BOLT, Shroud to Side Member	12	36	948536	HEADER BAR	2
17	949075	CLIP, Tube to Shroud	1	37	949070	SIDE MEMBER — R.H.	1
18	17E-6	LKWSHR, Clip to Shroud	1	38	1D-06	NUT, Tank to Core	12
19	1D-04	NUT, Clip to Shroud	1	39	1E-06	LKWSHR, Tank to Core	20

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10675

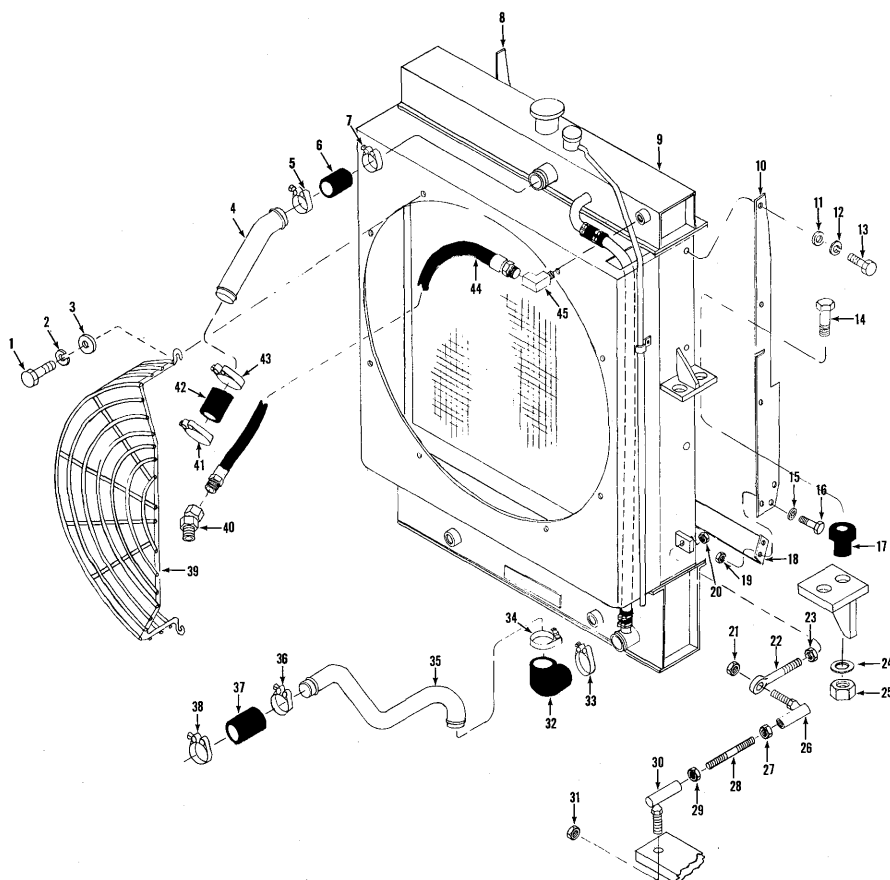
RADIATOR CONNECTIONS

For Serial: 425A101 thru 246

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-616	BOLT, Fan Guard Attaching	8	22	18D-04	NUT, Shroud to Bottom Plate	2
2	4E-06	LKWSHR, Fan Guard Attaching	8	23	1549587	ROD, Radiator Support	2
3	103293	WASHER, Fan Guard Attaching	8	24	8D-08	NUT, Rod Jam	2
4	1545114	TUBE, Radiator to Engine — Upper	1	25	18D-08	NUT, Rod to Frame Bracket	2
5	540104	CLAMP, Hose to Tube	1	26	72F-2	DRAIN COCK	2
6	1M-18040	HOSE, Tube to Radiator	1	27	540104	CLAMP, Hose to Radiator	2
7	540104	CLAMP, Hose to Radiator	1	28	537473	HOSE, Tube to Radiator — Lower	1
8	1545115	SHROUD, Side — L.H.	1	29	540104	CLAMP, Hose to Tube	1
9	—	RADIATOR — See Index	—	30	18D-08	NUT, Rod to Radiator Bracket	2
10	1545115	SHROUD, Side — R.H.	1	31	1545116	TUBE, Radiator to Engine — Lower	1
11	619018	WASHER, Shroud to Radiator	8	32	540104	CLAMP, Hose to Tube	1
12	4E-04	LKWSHR, Shroud to Radiator	8	33	1M-18040	HOSE, Tube to Engine	1
13	23C-412	BOLT, Shroud to Radiator	8	34	540104	CLAMP, Hose to Tube	1
14	24C-1056	BOLT, Radiator to Frame Bracket	4	35	1547894	GUARD, Fan	1
15	619018	WASHER, Shroud to Bottom Plate	8	35A	1510064	†STIFFENER, Fan Guard	1
16	24C-412	BOLT, Shroud to Bottom Plate	4	35B	24C-628	†BOLT, Fan Guard to Stiffener	1
17	1527276	MOUNT, Radiator to Frame — Rubber	4	35C	656672	†WASHER, Fan Guard to Stiffener	1
18	569070	WASHER, Radiator to Frame Bracket	4	35D	18D-06	†NUT, Fan Guard to Stiffener	1
19	18D-10	NUT, Radiator to Frame Bracket	4	36	540104	CLAMP, Hose to Engine	1
20	24C-828	BOLT, Rod to Radiator Bracket	2	37	1M-18040	HOSE, Tube to Engine	1
21	1545113	PLATE, Bottom Shroud	1	38	540104	CLAMP, Hose to Tube	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11511 B

RADIATOR CONNECTIONS**For Serial: 425A247 & After**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-616	BOLT, Fan Guard Attaching	8	24	569070	WASHER, Radiator to Frame	4
2	4E-06	LKWSHR, Fan Guard Attaching	8	25	18D-10	NUT, Radiator to Frame	4
3	103293	WASHER, Fan Guard Attaching	8	26	1301363	JOINT, Ball	2
4	1545114	TUBE, Radiator to Engine — Upper	1	27	8D-08	NUT, Jam	2
5	540104	CLAMP, Hose	1	28	663975	ROD, Threaded Adjusting	2
6	1M-18040	HOSE, Tube to Radiator	1	29	8D-08	NUT, Jam	2
7	540104	CLAMP, Hose	1	30	1301363	JOINT, Ball	2
8	1545115	SHROUD, Side — L.H.	1	31	66D-08	NUT, Ball Joint to Frame	2
9	—	RADIATOR — See Index	—	32	537473	HOSE, Tube to Radiator — Lower	1
9A	72F-2	†DRAIN COCK	2	33	540104	CLAMP, Hose	1
10	1545115	SHROUD, Side — R.H.	1	34	540104	CLAMP, Hose	1
11	619018	WASHER, Shroud to Radiator	8	35	1510505	TUBE, Radiator to Engine — Lower	1
12	4E-04	LKWSHR, Shroud to Radiator	8	36	540104	CLAMP, Hose	1
13	24C-412	BOLT, Shroud to Radiator	8	37	1M-18040	HOSE, Tube to Engine	1
14	24C-1056	BOLT, Radiator to Frame	4	38	540104	CLAMP, Hose	1
15	619018	WASHER, Shroud to Bottom Plate	8	39	1510774	GUARD, Fan — L.H.	1
16	24C-412	BOLT, Shroud to Bottom Plate	4	39A	1510775	†GUARD, Fan — R.H.	1
17	1527276	MOUNT, Rubber — Radiator to Frame	4	40	33F-1	ADAPTER, Hose to Engine	1
18	1545113	PLATE, Bottom Shroud	1	41	540104	CLAMP, Hose	1
19	18D-04	NUT, Shroud to Bottom Plate	4	42	1M-18040	HOSE, Tube to Engine	1
20	18D-08	NUT, Rod to Radiator	2	43	540104	CLAMP, Hose	1
21	66D-08	NUT, Ball Joint to Rod End	2	44	538753	HOSE, Top Tank to Thermostat Housing	1
22	523199	ROD, Radiator Support	2	45	29F-1	ELBOW, Hose to Top Tank	1
23	8D-08	NUT, Rod Jam	2				

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



**"S" GROUP
CONTENTS**

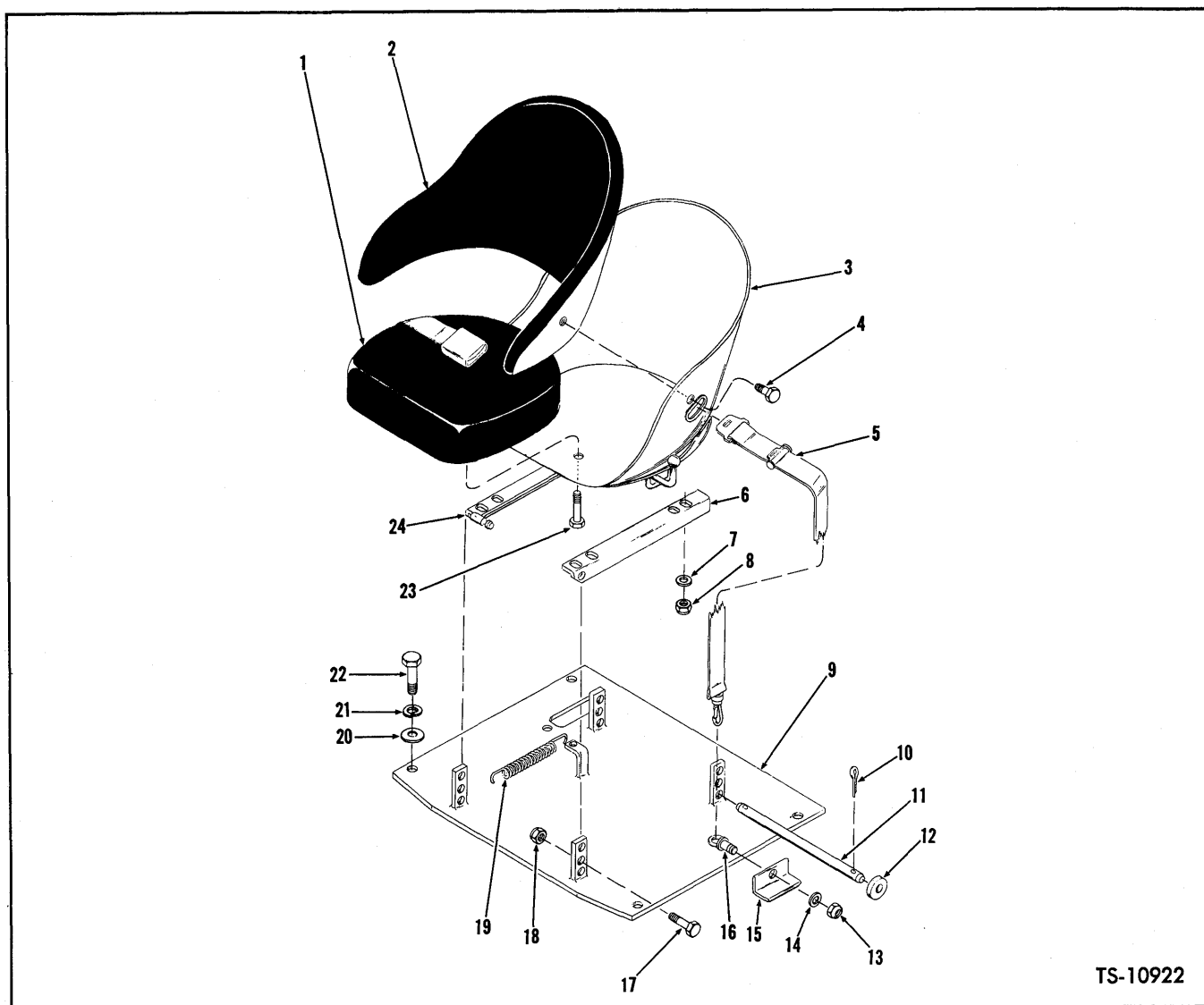
Seat, Belt & Support Parts S 2

Steering Group:

Steering Drag Link S 3

Steering Gear Assembly S 5

Steering Gear Mounting Group S 6



TS-10922

SEAT, BELT & SUPPORT PARTS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1572355	SEAT ASSY, Bucket (Inc. 1, 2, 3, 4 & 23)	1	12	664406	WASHER, Seat Mounting Bar	2
B	1527816	BELT KIT, Seat (Inc. 5, 13, 14, 15 & 16)	1	13		§ NUT, Seat Belt Eyebolt — See "B"	2
1	944499	CUSHION, Seat	1	14		§ WASHER, Seat Belt Eyebolt — See "B"	2
2	944981	CUSHION, Back Rest	1	15	1547302	ANGLE, Seat Belt Connection	2
3	944982	BUCKET, Seat	1	16		§ EYEBOLT, Seat Belt — See "B"	2
4	1C-610	BOLT, Cushion Mounting	3	17	24C-824	BOLT, Seat Pivot	2
5	1527745	BELT ASSY, Seat (Inc. 13, 14 & 16)	1	17A	584092	† WASHER, Seat Pivot	2
6	558779	ANGLE, Left Hand	1	18	18D-08	NUT, Seat Pivot	2
7	619019	WASHER, Seat Mounting	4	19	550301	SPRING, Seat	1
8	18D-05	NUT, Seat Mounting	4	20	619029	WASHER, Seat Support to Frame	4
9	568781	SUPPORT, Seat	1	21	4E-08	LKWSHR, Seat Support to Frame	4
10	1F-420	COTTER, Seat Mounting Bar	2	22	23C-820	BOLT, Seat Support to Frame	4
11	557458	BAR, Seat Mounting	1	23	1C-610	BOLT, Cushion Mounting	1
				24	558777	ANGLE, Right Hand	1

§ Not Sold Separately

† Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

STEERING GEAR ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1529890	STEERING GEAR ASSY (Inc. 1 thru 31, 34 thru 62, 64 thru 67)	1	33A	65G-406	†SCREW, Plate Attaching	4
1	850756	NUT, Pitman Arm	1	34	648304	NUT, Steering Wheel to Shaft	1
2	4E-18	LKWSHR, Pitman Arm	1	35	853384	KEY, Steering Shaft	1
3	853391	SEAL, Pitman Shaft Grease	1	36	946138	HOUSING ASSY (Inc. 4, 37)	1
4	853357	BUSHING, Pitman Shaft	1	37	730143	BEARING, Steering Housing	1
5	91F-6	"O" RING	1	38	10J-09	BALL	106
6	946601	PLUNGER, Relief Valve	1	38A	853526	†GUIDE, Ball Return	4
7	946609	WASHER, Relief Valve	1	39	853525	NUT, Ball	1
8	946606	SPRING, Relief Valve — Inner	1	40	4E-06	LKWSHR, Side Cover	3
9	946605	SEAT, Relief Valve Spring	1	41	1C-612	BOLT, Side Cover	3
10	946608	WASHER, Adjusting Screw Nut	1	42	853182	COVER, Housing Side (Inc. 46)	1
11	946603	SCREW, Adjusting	1	43	853187	SHIM KIT, Lash Adjuster	1
12	946602	SCREW, Bleeder	1	44	8D-07	NUT, Lash Adjuster	1
13	66D-12	NUT, Adjusting Screw	1	45	851770	ADJUSTER, Lash	1
14	946599	HOUSING, Relief Valve	1	46	———	§BUSHING, Side Cover — See Item 42 —	—
15	946607	SPRING, Relief Valve — Outer	1	47	851756	GASKET, Side Cover	1
16	25K-40108	"O" RING	1	48	940111	GEAR, Pitman Shaft	1
17	946598	GUIDE, Plunger	1	49	861741	BEARING, Adapter	1
18	946604	SEAT, Plunger	1	50	25K-40108	"O" RING, Adapter	1
19	946834	*VALVE, Relief (Inc. 5 thru 18, 55, 56, 57)	1	51	860997	BEARING, Worm Thrust	1
20	73G-728	BOLT, Adapter to Housing	4	52	943438	WASHER, Worm Thrust	1
20A	4E-07	†LKWSHR, Adapter to Housing	4	53	1306626	"O" RING, Valve to Spacer	1
21	944186	ADAPTER, Valve to Housing (Inc. 49, 50)	1	54	944197	SPACER, Valve	1
22	886851	"O" RING, Spacer to Adapter	1	55	———	§SPOOL, Valve — See Item 19	1
23	853380	GASKET, Adapter to Housing	1	56	944195	SPRING, Centering	2
24	851762	BOLT & WASHER ASSY, Clamp	3	57	944192	PLUNGER	4
25	853527	CLAMP, Ball Return Guide	1	58	943438	WASHER, Bearing Thrust	1
26	25F-4	ELBOW, Filler	1	59	1306626	"O" RING, End Cover	1
27	5K-432	PIPE, Filler	1	60	860997	BEARING, Worm Thrust	1
28	22F-4	CAP, Filler Pipe	1	61	3E-09	LKWSHR, End Cover	4
29	857729	BEARING, Upper	1	62	944198	BOLT, End Cover	4
30	861768	WASHER, Upper Bearing	1	63	1525483	ARM, Pitman	1
31	853395	SPRING, Upper Bearing	1	64	944667	COVER, Steering Gear End	1
32	518331	WHEEL, Steering	1	65	946437	SHAFT ASSY (Inc. 24, 25, 38, 38A, 39)	1
33	1511710	PLATE, Operating Precaution	1	66	873250	NUT, Worm Bearing	1
				67	25K-30118	"O" RING	1

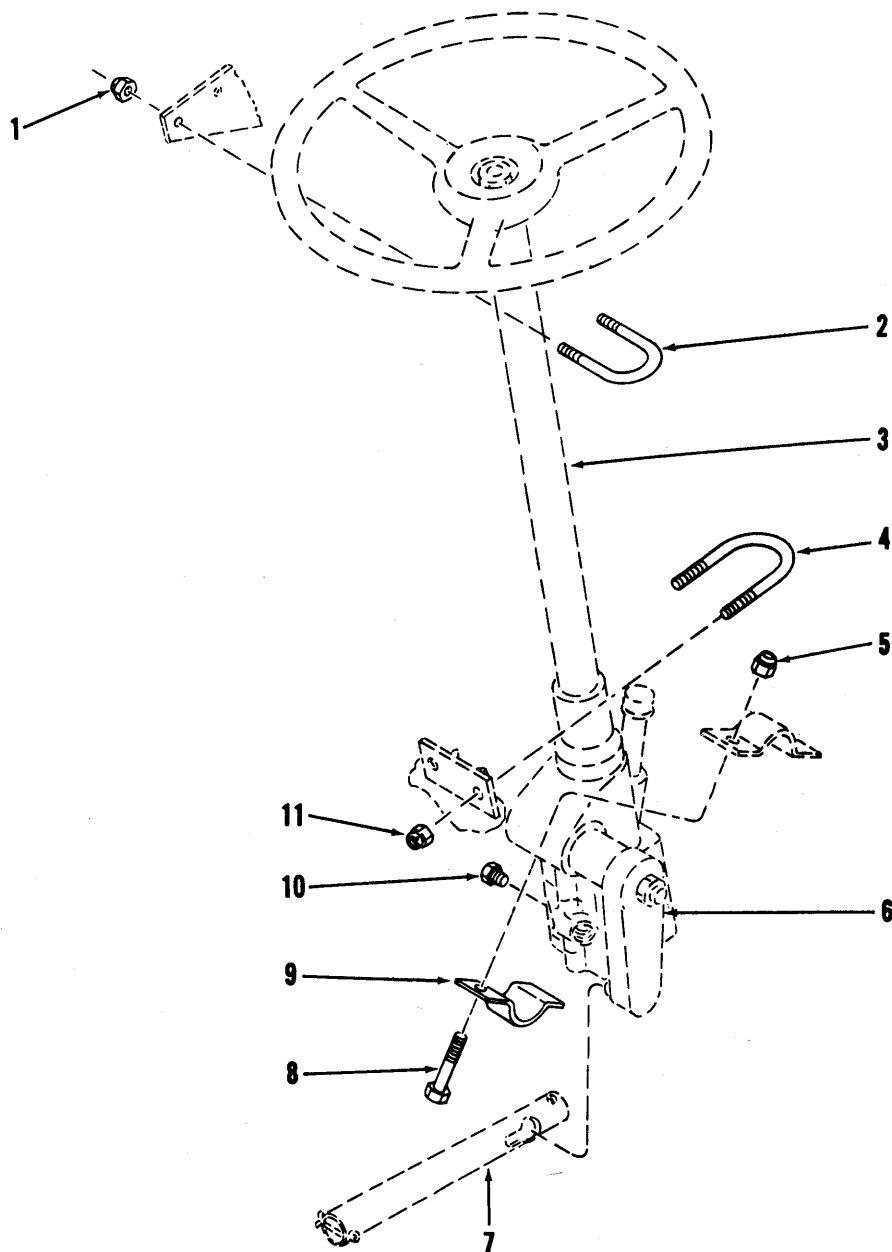
†Not Illustrated

§Not Sold Separately

*Shown out of position.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

[S5-1]

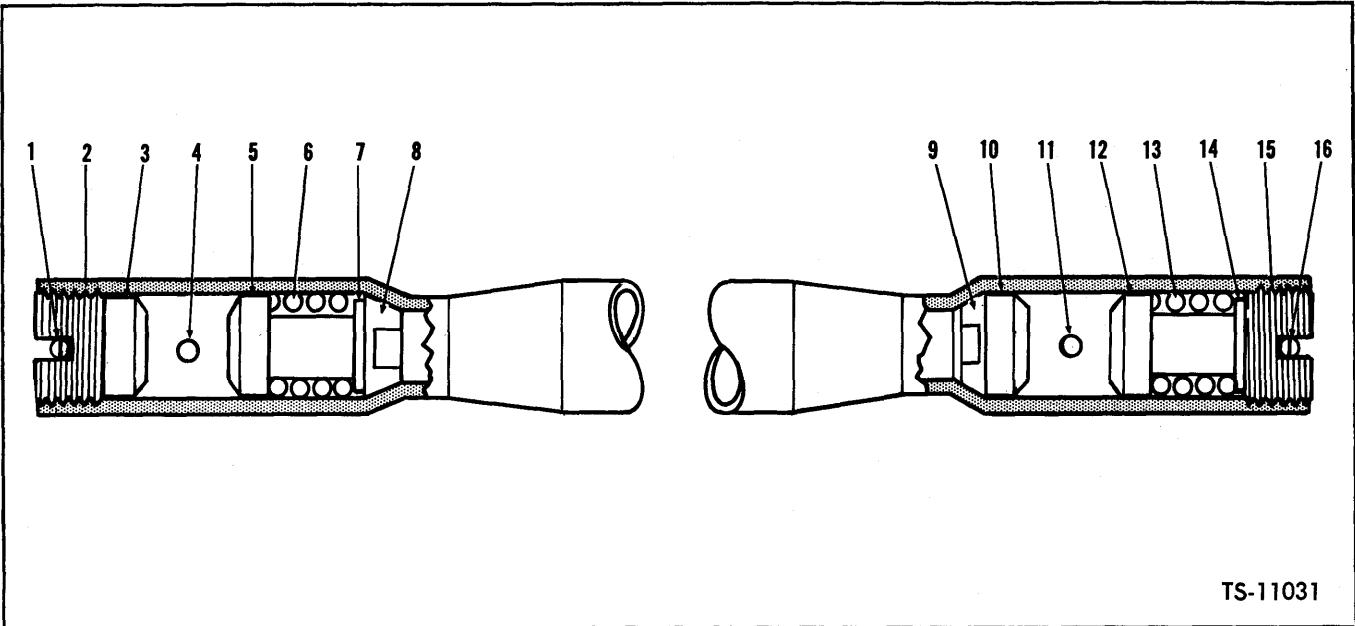


TS-5322-P

STEERING GEAR MOUNTING GROUP

Item No.	Part No.	Description	No. Req'd.
1	18D-06	NUT, "U" Bolt	2
2	571441	"U" BOLT, Steering Gear to Cockpit	1
3	-----	STEERING GEAR ASSY — See Index	—
4	545941	"U" BOLT, Steering Gear to Cockpit	1
5	18D-08	NUT, Steering Gear Clamp	2
6	-----	PITMAN ARM — See Index	—
7	-----	DRAG LINK — See Index	—
8	18C-836	BOLT, Steering Gear Clamp	2
9	550044	CLAMP, Steering Gear	1
10	40K-02	PLUG, Steering Valve	1
11	18D-08	NUT, "U" Bolt	2

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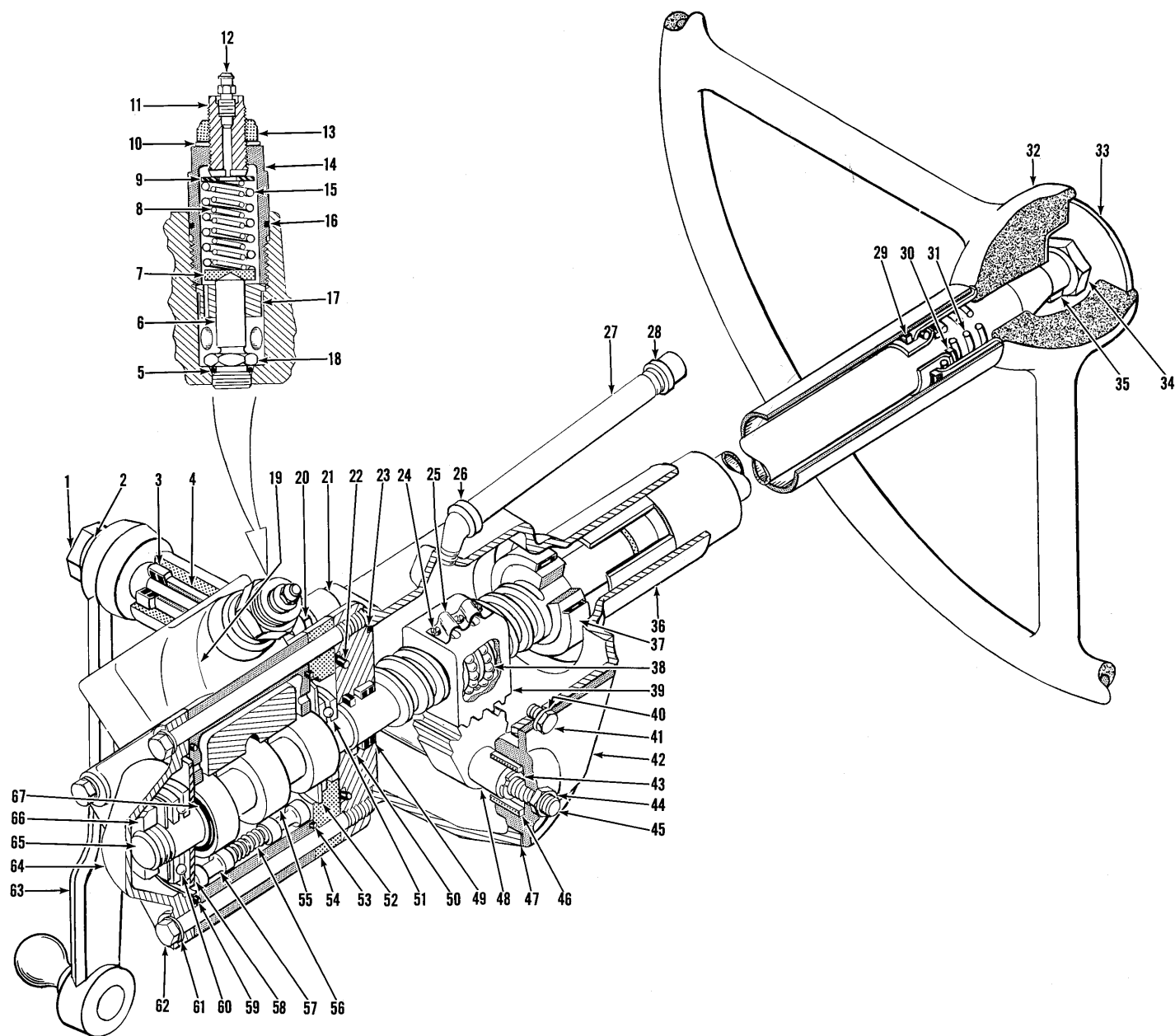


TS-11031

STEERING DRAG LINK

Item No.	Part No.	Description	No. Req'd.
A	569509	DRAG LINK ASSY (Inc. 2, 3, 5 thru 10, 12 thru 15)	1
1	1F-432	COTTER	1
2	876575	PLUG, Adjusting	1
3	865965	SEAT, Ball Stud	1
4	12H-15	FITTING, Grease	1
5	865965	SEAT, Ball Stud	1
6	865961	SPRING	1
7	662691	SEAT, Spring	1
8	865963	SEAT	1
9	865963	SEAT	1
10	865965	SEAT, Ball Stud	1
11	10H-25	FITTING, Grease	1
12	865965	SEAT, Ball Stud	1
13	865961	SPRING	1
14	662691	SEAT, Spring	1
15	876575	PLUG, Adjusting	1
16	1F-432	COTTER	1

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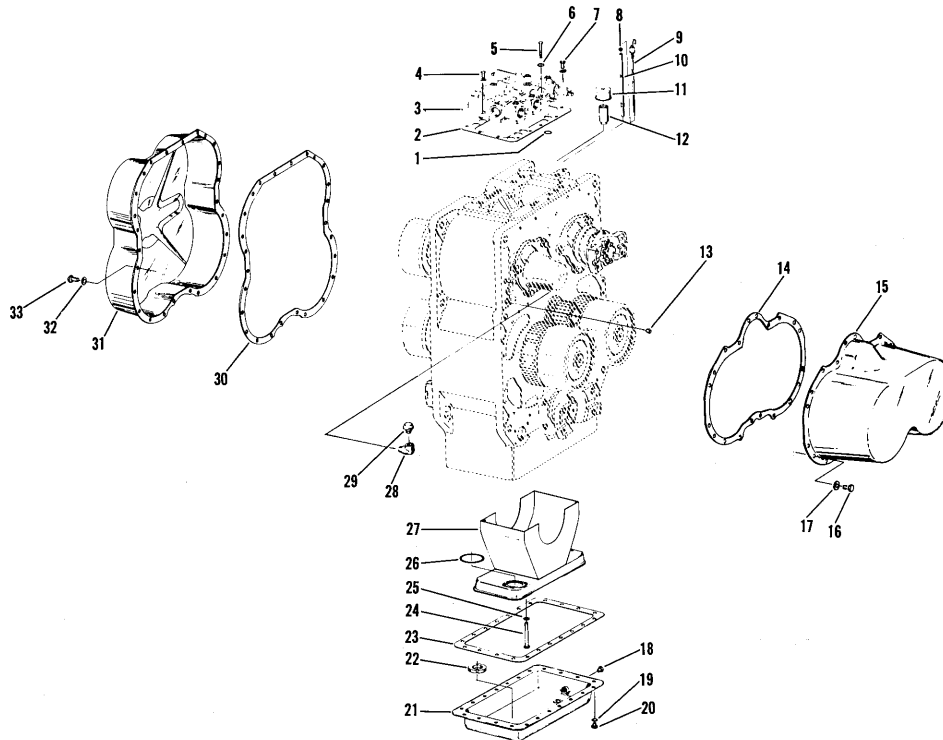
STEERING GEAR ASSEMBLY

TS-10926

**"T" GROUP
CONTENTS**

Transmission Group:

Transmission Assembly and Clutch Cover Group	T 2
Transmission Case and Internal Tubing	T 3
Transmission Control Cover Assembly	T 4
Transmission Controls	T 5
Transmission First and Second Clutch Group	T 6
Transmission First and Third Shaft Group	T 7
Transmission Idler Shaft Group	T 8
Transmission Input Shaft Group	T 9
Transmission Input-Reverse, Third and Fourth Clutch Group	T 10
Transmission Output Shaft Group	T 11
Transmission Reverse Shaft Group	T 12
Transmission Second and Fourth Shaft Group	T 13



TS-7840

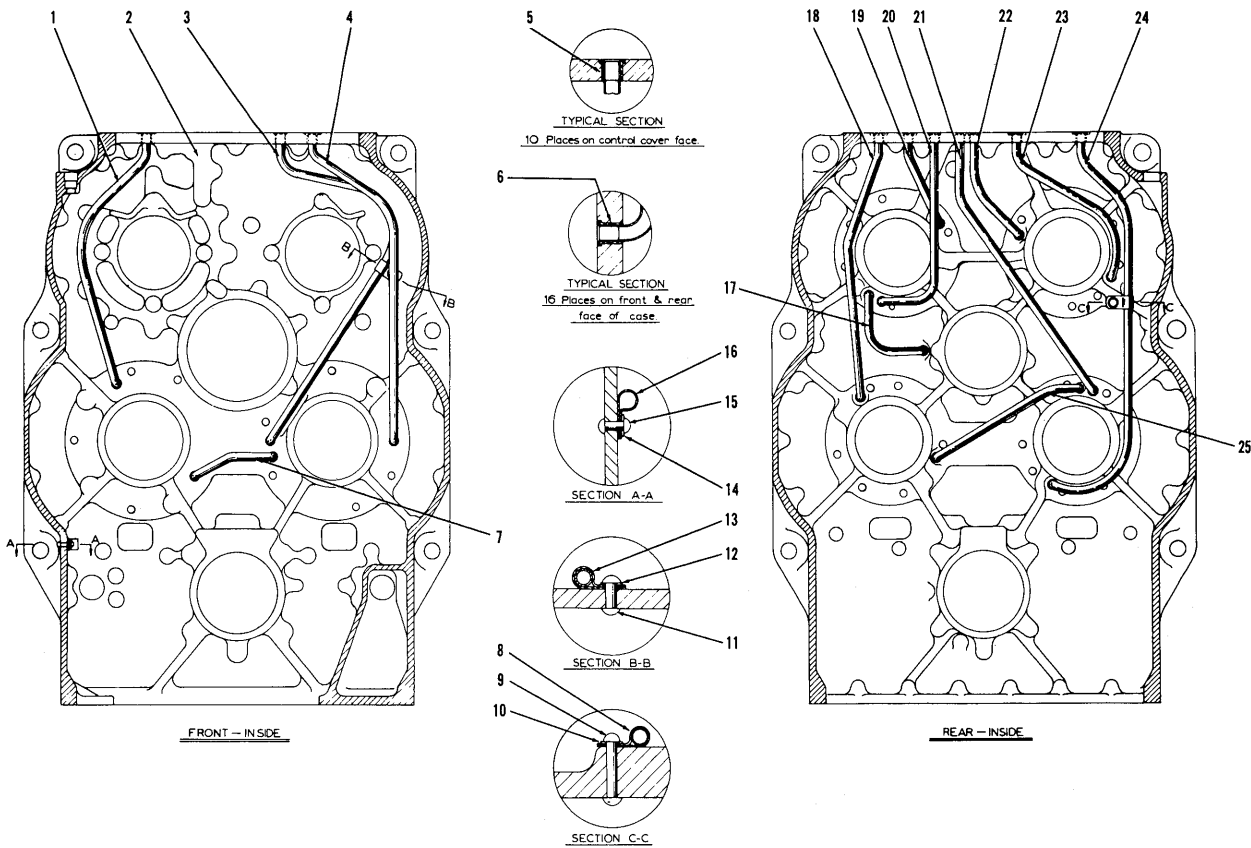
TRANSMISSION ASSEMBLY & CLUTCH COVER GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	283248	*TRANSMISSION ASSY 5421-23		14	217713	GASKET, Clutch Cover	1
		*Transmission Assembly includes items 1 thru 33		15	217712	COVER, 1st & 2nd Clutch	1
1	25K-40026	O-RING, Valve to Case	6	16	5C-612	BOLT & LKWSHR, Clutch Cover (Inc. 17)	20
2	217653	GASKET, Valve to Case	1	17		§LKWSHR, Clutch Cover — See 16	—
3	—	TRANS., Control Cover Assy — See Index	—	18	13F-12	PLUG, Oil Sump Drain	1
4	1C-616	BOLT, Valve to Case	4	19	—	§LKWSHR, Oil Sump — See 20	—
4A	4E-06	†LKWSHR, Valve to Case	4	20	5C-612	BOLT & LKWSHR, Oil Sump (Inc. 19)	18
5	1C-624	BOLT, Valve to Case	2	21	217562	SUMP ASSY, Oil	1
6	4E-06	†LKWSHR, Valve to Case	2	22	525293	MAGNET, Sump	2
7	1C-640	BOLT, Valve to Case	6	23	217563	GASKET, Oil Sump	1
7A	4E-06	†LKWSHR, Valve to Case	6	24	1C-636	BOLT, Frame & Screen to Case	3
8	92F-7	FITTING, Dipstick Tube	1	25	4E-06	LKWSHR, Frame & Screen to Case	3
9	—	DIPSTICK — See Trans. & Torque Converter Hydraulic System	—	26	218376	GASKET, Oil Sump Frame	1
10	230606	TUBE, Dipstick — Inner	1	27	218358	FRAME & SCREEN ASSY — Oil Sump	1
11	—	Not Used This Application — See Trans. & Torque Converter Hydraulic System	—	28	26F-3	ELBOW, Air Breather	1
12	—	Not Used This Application — See Trans. & Torque Converter Hydraulic System	—	29	211433	BREATHER, Air	1
13	13F-12	PLUG, Drain	1	30	217620	GASKET, Clutch Cover	1
				31	217619	COVER, Fwd. & Rev., 3rd & 4th Clutch	1
				32	—	§LKWSHR, Clutch Cover — See 33	—
				33	5C-612	BOLT & LKWSHR, Clutch Cover (Inc. 32)	25

†Not Illustrated

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



5000 SERIES CASE ASSEMBLY

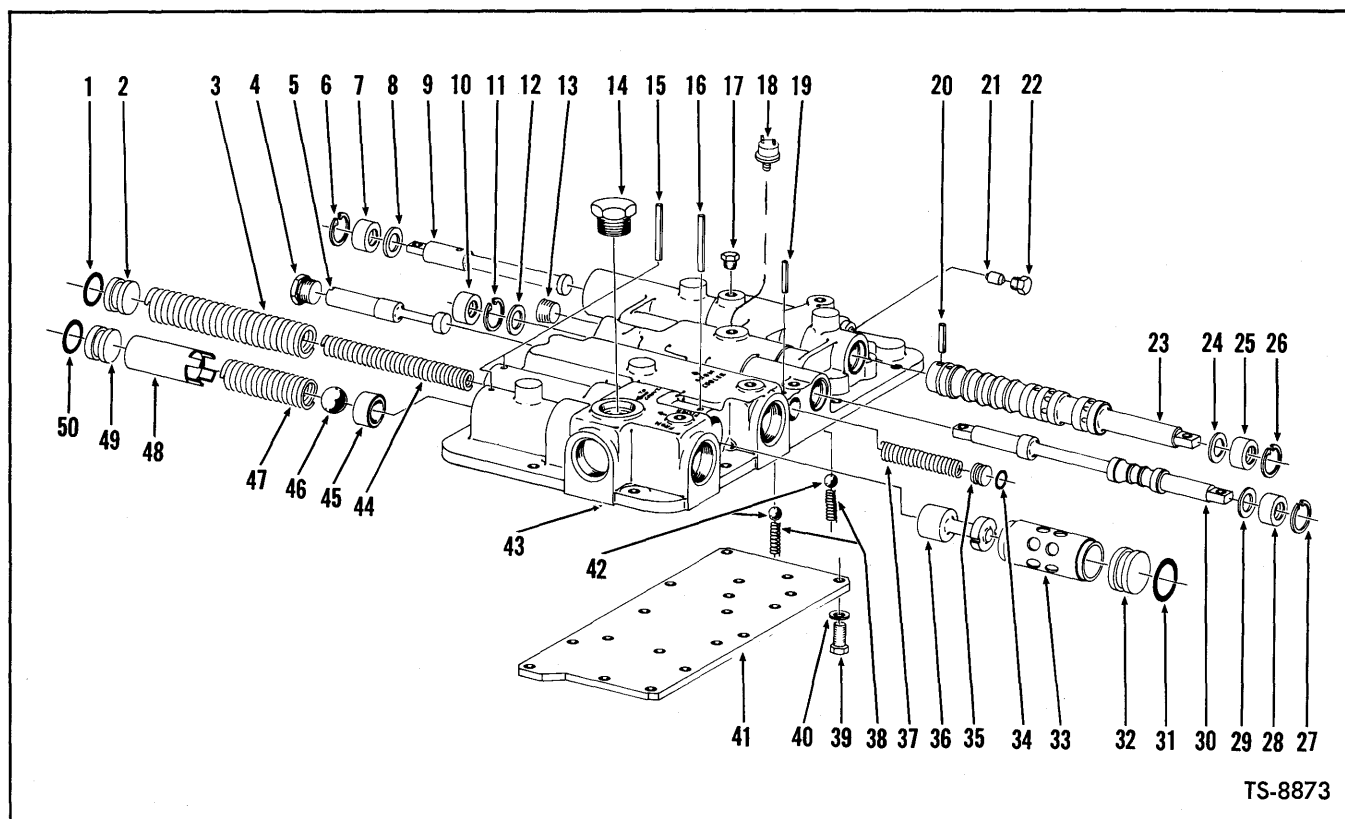
TS-7839-P

TRANSMISSION CASE AND INTERNAL TUBING

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	217708	*TUBE, 1st Clutch Pressure	1	14	619018	WASHER, Clip to Case	1
2	217572	CASE ASSY, Trans. (Inc. 1 thru 25)	1	15	1H-414	RIVET, Clip to Case	1
3	217710	*TUBE, 2nd Clutch Lube	1	16	6H-32	CLIP, Dipstick Tube	1
4	217709	*TUBE, 2nd Clutch Pressure	1	17	217704	*TUBE, Reverse to Idler X-Over Lube	1
5	222067	SLEEVE, Tube	8	18	217706	*TUBE, 4th Clutch Pressure	1
6	222067	SLEEVE, Tube	18	19	217699	*TUBE, Reverse Clutch Pressure	1
7	217698	*TUBE, 2nd to 1st X-Over Lube	1	20	217703	*TUBE, Reverse Clutch Lube	1
8	6H-29	CLIP, Tube	1	21	217707	*TUBE, 3rd Clutch Lube	1
9	1H-534	RIVET, Clip to Case	1	22	217701	*TUBE, Input Lube	1
10	619019	WASHER, Clip to Case	1	23	217700	*TUBE, Input Clutch Pressure	1
11	1H-518	RIVET, Clip to Case	1	24	217705	*TUBE, 3rd Clutch Pressure	1
12	619019	WASHER, Clip to Case	1	25	217702	*TUBE, 3rd to 4th X-Over Lube	1
13	6H-29	CLIP, Tube	1				

*NOTE: Use two 222067 sleeve (Item 5 or 6) when replacing any of the above tubes, one at each end of tube. Use 943374 Tube Expander to expand tube into sleeve.

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TS-8873

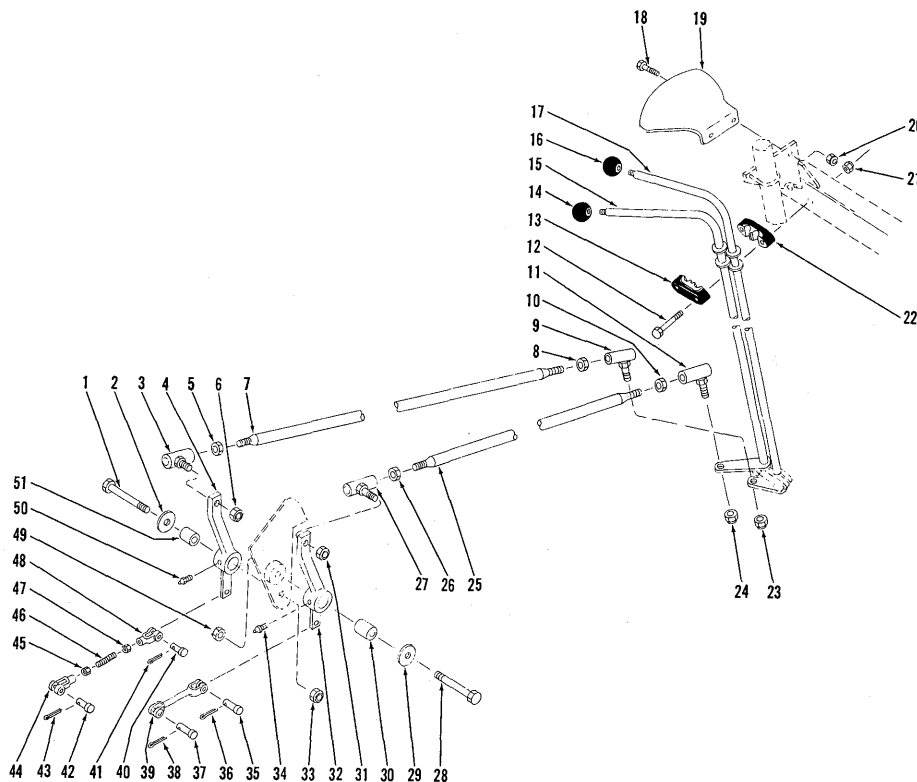
TRANSMISSION CONTROL COVER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	231110	COVER ASSY, Control (Inc. 1 thru 50)	1	25	233222	SEAL, Selector Valve Oil	1
1	893267	O-RING, Reg. Valve Stop	1	26	664140	RING, Selector Valve Ret.	1
2	222041	STOP, Reg. Valve	1	27	664140	RING, Selector Valve Ret.	1
3	217649	SPRING, Reg. Valve — Outer	1	28	233222	SEAL, Selector Valve Oil	1
4	24K-7	PLUG, Shut-Off Valve	1	29	217657	WASHER, Selector Valve	1
5	217644	SPOOL, Shut-Off Valve	1	30	217637	VALVE, Fwd. & Rev. Selector	1
6	664140	RING, Selector Valve Ret.	1	31	791553	O-RING, Reg. Valve Stop	1
7	233222	SEAL, Selector Valve Oil	1	32	217647	STOP, Reg. Valve	1
8	217657	WASHER, Selector Valve	1	33		§SLEEVE — See Item 36	—
9	217635	VALVE, Inner Selector	1	34	25K-30018	O-RING, Valve Spool	1
10	233222	SEAL, Selector Valve Oil	1	35	220983	STOP, Valve Spool	1
11	664140	RING, Selector Valve Ret.	1	36	801437	KIT, Reg. Valve Spool (Inc. 33)	1
12	217657	WASHER, Selector Valve	1	37	217645	SPRING, Valve Spool	1
13	16F-08	PLUG, Valve Hole	1	38	232600	SPRING, Poppet	2
14	24K-10	PLUG, Pipe	1	39	1C-512	BOLT, Plate to Cover	17
15	300058	PIN, Reg. & Safety Valve Stop Roll	2	40	5E-05	LKWSHR, Plate Mounting	17
16	300058	PIN, Reg. & Safety Valve Stop Roll	1	41	217632	PLATE, Control Cover	1
17	40K-02	PLUG, Oil Passage	4	42	10J-12	BALL, Poppet	2
18	229729	SWITCH, Neutral Start	1	43	229982	COVER, Control	1
18A	10J-12	†BALL, Neutral Start Switch	1	44	217648	SPRING, Reg. Valve — Inner	1
19	654724	PIN, Valve Spool Stop Roll	1	45	217650	SEAT, Safety Valve	1
20	667209	PIN, Selector Valve Roll	1	46	10J-24	BALL, Safety Valve	1
21	217654	VALVE, Shuttle	1	47	217651	SPRING, Safety Valve	1
22	47K-3	PLUG, Shuttle Valve	1	48	217652	SPACER, Valve Seat Ret.	1
23	217633	VALVE, Selector (Inc. 9, 20)	1	49	222041	STOP, Safety Valve	1
23A	226869	†Spacer, Selector Valve	1	50	893267	O-RING, Valve Stop	1
24	217657	WASHER, Selector Valve	1				

†Not Illustrated

§Not Sold Separately

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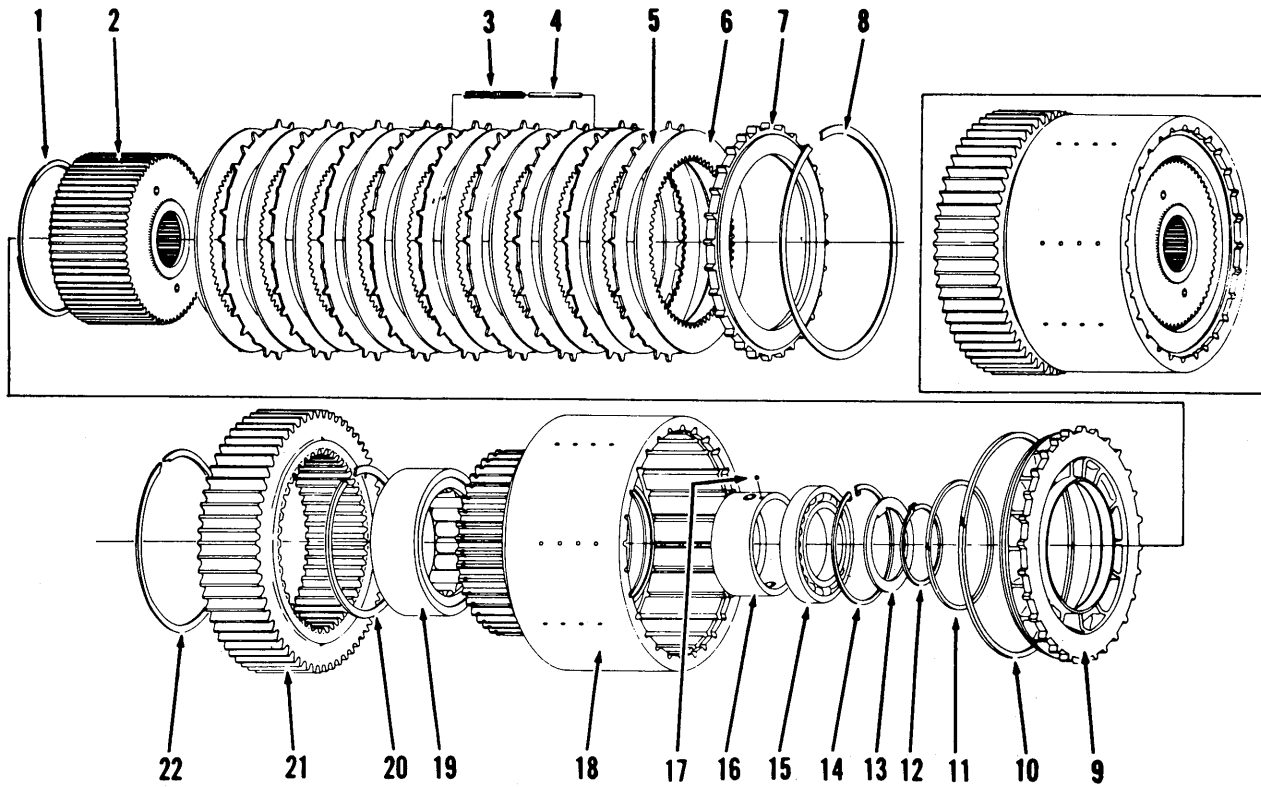
TS-7809

TRANSMISSION CONTROLS

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	24C-1252	BOLT, Bellcrank to Bracket	1	26	8D-08	NUT, Ball Joint Jam	1
2	585972	WASHER, Bellcrank to Bracket	1	27	1305485	BALL JOINT, Rod to Bellcrank	1
3	1305485	BALL JOINT, Rod to Bellcrank	1	28	24C-1280	BOLT, Bellcrank to Bracket	1
4	569777	BELLCRANK, Forward & Reverse	1	29	585972	WASHER, Bellcrank to Bracket	1
5	8D-08	NUT, Ball Joint Jam	1	30	570676	SLEEVE, Bellcrank	1
6	18D-08	NUT, Ball Joint to Bellcrank	1	31	18D-08	NUT, Ball Joint to Bellcrank	1
7	1545055	ROD, Forward & Reverse Control (Inc. 3, 5, 8, 9)	1	32	1525075	BELLCRANK, Four Speed	1
8	8D-08	NUT, Ball Joint Jam	1	33	18D-12	NUT, Bellcrank to Bracket	1
9	1305485	BALL JOINT, Rod to Lever	1	34	10H-25	FITTING, Bellcrank Grease	1
10	8D-08	NUT, Ball Joint Jam	1	35	4F-05062	PIN, Rod to Bellcrank	1
11	1305485	BALL JOINT, Rod to Lever	1	36	1F-312	COTTER, Clevis Pin	1
12	24C-536	BOLT, Lever Mounting Support	4	37	4F-05062	PIN, Rod to Transmission	1
13	1508846	SUPPORT, Lever Mounting (Inc. 22)	2	38	1F-312	COTTER, Clevis Pin	1
14	509772	KNOB, Shift Lever	1	39	569764	ROD, Bellcrank to Transmission	1
15	1543938	ROD ASSY, Four Speed Shift	1	40	4F-05062	PIN, Clevis to Bellcrank	1
16	509772	KNOB, Shift Lever	1	41	1F-312	COTTER, Clevis Pin	1
17	1543939	ROD ASSY, Forward & Reverse Shift	1	42	4F-05062	PIN, Clevis to Transmission	1
18	24C-616	BOLT, Shift Quadrant	1	43	1F-312	COTTER, Clevis Pin	1
19	568477	QUADRANT, Shift	1	44	2J-5204	CLEVIS, Rod End	1
20	18D-06	NUT, Shift Quadrant	1	45	8D-05	NUT, Clevis Jam	1
21	18D-05	NUT, Lever Mounting Support	4	46	1526206	ROD ASSY (Inc. 44, 45, 47, 48)	1
22	---	§SUPPORT, Lever Mounting — (See 13)	2	47	8D-05	NUT, Clevis Jam	1
23	18D-08	NUT, Ball Joint to Shift Lever	1	48	2J-5204	CLEVIS, Rod End	1
24	18D-08	NUT, Ball Joint to Shift Lever	1	49	18D-12	NUT, Bellcrank to Bracket	1
25	1545057	ROD, Four Speed Control (Inc. 10, 11, 26, 27)	1	50	10H-25	FITTING, Bellcrank Grease	1
				51	570676	SLEEVE, Bellcrank	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

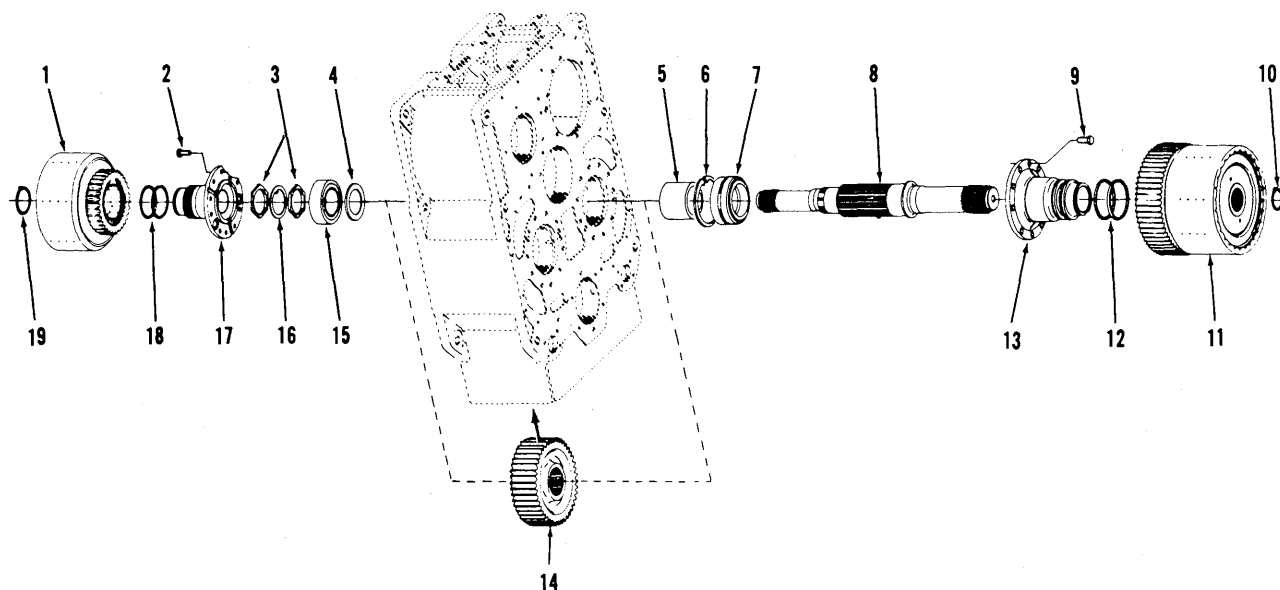


TS-4680-P

TRANSMISSION FIRST & SECOND CLUTCH GROUP
2 Clutches used in Transmission — Quantity indicated is for 1 Clutch

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	217510	RING, Oil Baffle Retaining	1	12	791018	RING, Washer Retaining	1
2	217133	HUB ASSY, Clutch Disc	1	13	217417	WASHER, Bearing	1
3	217334	SPRING, Clutch Disc Release	8	14	223982	RING, Bearing Retaining	1
4	217599	PIN, Clutch Disc Release Spring	8	15	225768	BEARING, Clutch Support	1
5	232285	DISC, Clutch — Outer	9	16	217136	RACE, Outer Piston Ring	1
6	232779	DISC, Clutch — Inner	10	17	10J-08	BALL, Outer Race	1
7	217137	PLATE, Clutch Disc End	1	18	217130	DRUM ASSY, Clutch (Inc. 16, 17)	1
8	217416	RING, End Plate Retaining	1	19	225766	BEARING, Clutch Support Roller	1
9	217138	PISTON, Clutch	1	20	223852	RING, Bearing Retaining	1
10	217415	RING, Outer Piston	1	21	227884	GEAR, Clutch Drum Hub (40T)	1
11	217420	RING, Inner Piston	1	22	217692	RING, Gear Retaining	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

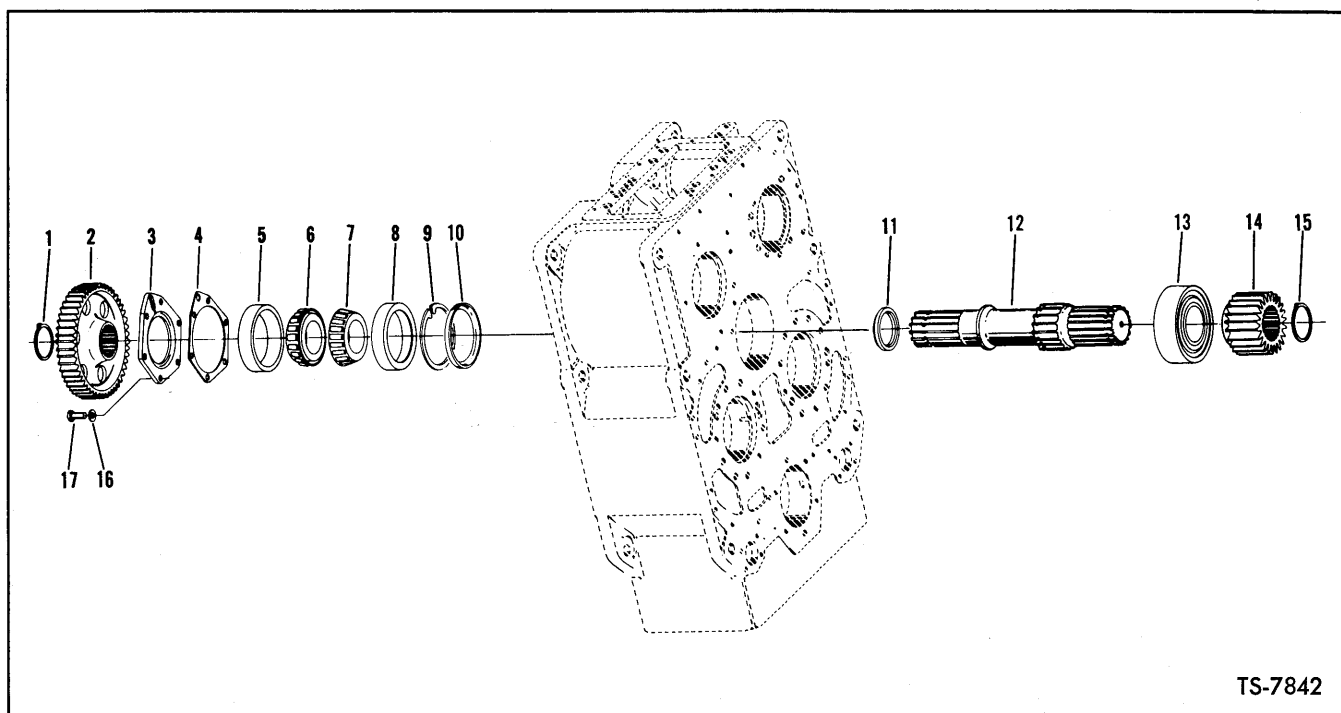


TS-4675-P

TRANSMISSION FIRST & THIRD SHAFT GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CLUTCH ASSY, 3rd Clutch—See Index	1	11	-----	CLUTCH ASSY, 1st Clutch—See Index	1
2	8C-820	BOLT, Clutch Support to Case	8	12	217418	RING, Clutch Support Piston	2
3	217506	NUT, Bearing Lock	2	13	217128	SUPPORT, 1st Clutch	1
4	222181	SPACER, Bearing	1	14	217359	GEAR, 1st & 3rd Shaft (45T)	1
5	217502	SPACER, 1st & 3rd Shaft Gear	1	15	225844	BEARING, 1st & 3rd Shaft	1
6	223982	RING, Bearing Retaining Snap	1	16	217507	LOCK, Bearing Nut	1
7	225400	BEARING, 1st & 3rd Shaft	1	17	217156	SUPPORT, 3rd Clutch	1
8	217341	SHAFT, 1st & 3rd	1	18	223740	RING, Clutch Support Piston	2
9	8C-820	BOLT, Clutch Support to Case	8	19	659764	RING, Disc Hub Snap	1
10	660516	RING, Disc Hub Snap	1				

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-7842

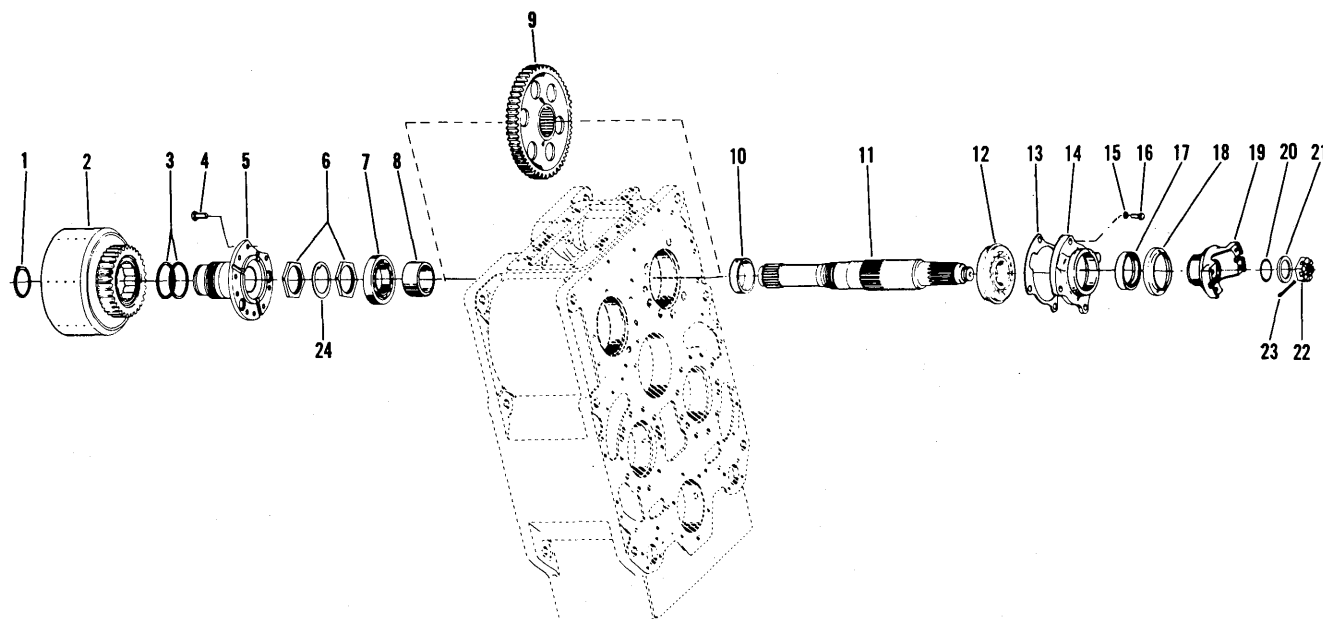
TRANSMISSION IDLER SHAFT GROUP

Item No.	Part No.	Description	No. Req'd.
1	711161	RING, Gear Retaining	1
2	217398	GEAR, Idler to Low Forward	1
3	217629	CAP, Bearing	1
4	217689	‡SHIM, Bearing Cap — .004	—
4A	217690	‡SHIM, Bearing Cap — .007	—
4B	217691	‡SHIM, Bearing Cap — .010	—
5	730503	CUP, Idler Shaft Bearing	1
6	710791	CONE, Idler Shaft Bearing	1
7	710791	CONE, Idler Shaft Bearing	1
8	730503	CUP, Idler Shaft Bearing	1
9	223879	RING, Bearing Retaining	1
10	217598	BAFFLE, Bearing Oil	1
11	217628	SPACER, Bearing	1
12	217352	SHAFT, Idler	1
13	231596	BEARING, Idler Shaft	1
13A	10J-14	†BALL, Bearing Lock	1
14	227883	GEAR, Idler to First	1
15	507688	RING, Gear Retaining	1
16	4E-08	LKWSHR, Bearing Cap	5
17	1C-820	BOLT, Bearing Cap	5

†Not Illustrated

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

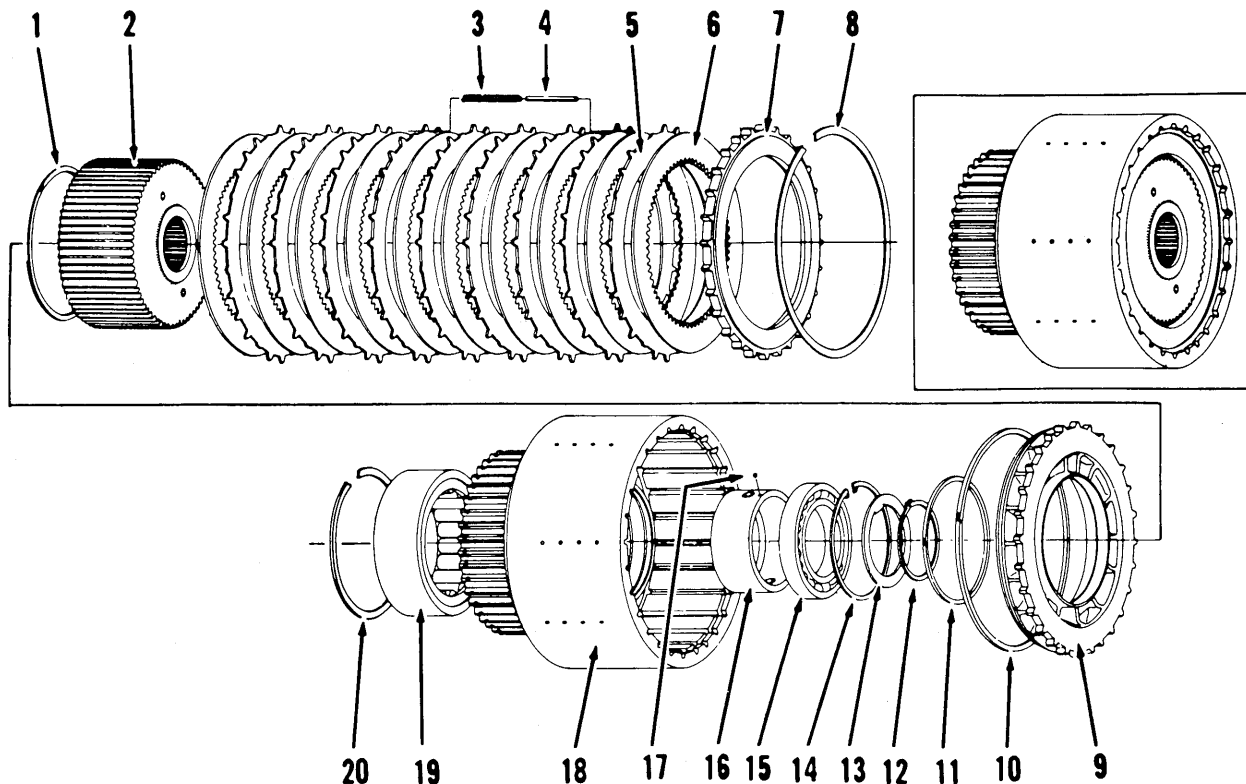


TS-7841-P

TRANSMISSION INPUT SHAFT GROUP

Item No.	Part No.	Description	No. Req'd.
1	659764	RING, Disc Hub Snap	1
2	-----	CLUTCH ASSY, Input — See Index	—
3	223740	RING, Clutch Support Piston	2
4	8C-820	BOLT, Clutch Support to Case	8
5	217156	SUPPORT, Input Clutch	1
6	217506	NUT, Bearing Lock	2
7	225840	BEARING, Rear	1
8	217508	SPACER, Input Shaft Gear	1
9	217399	GEAR, Input Shaft (50T)	1
10	217500	SPACER, Input Shaft Gear	1
11	217545	SHAFT, Input	1
12	225842	BEARING, Front	1
13	217490	GASKET, Bearing Cap	1
14	217489	CAP, Bearing	1
15	4E-08	LKWSHR, Bearing Cap to Case	4
16	1C-820	BOLT, Bearing Cap to Case	4
17	209587	SEAL, Oil	1
18	100949	DEFLECTOR, Input Flange	1
19	222232	FLANGE ASSY, Input (7-C) (Inc. 18)	1
20	25K-60116	"O" RING, Flange	1
21	222179	WASHER, Flange	1
22	205928	NUT, Flange to Shaft	1
23	1F-636	COTTER, Flange Nut	1
24	217507	LOCK, Nut	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

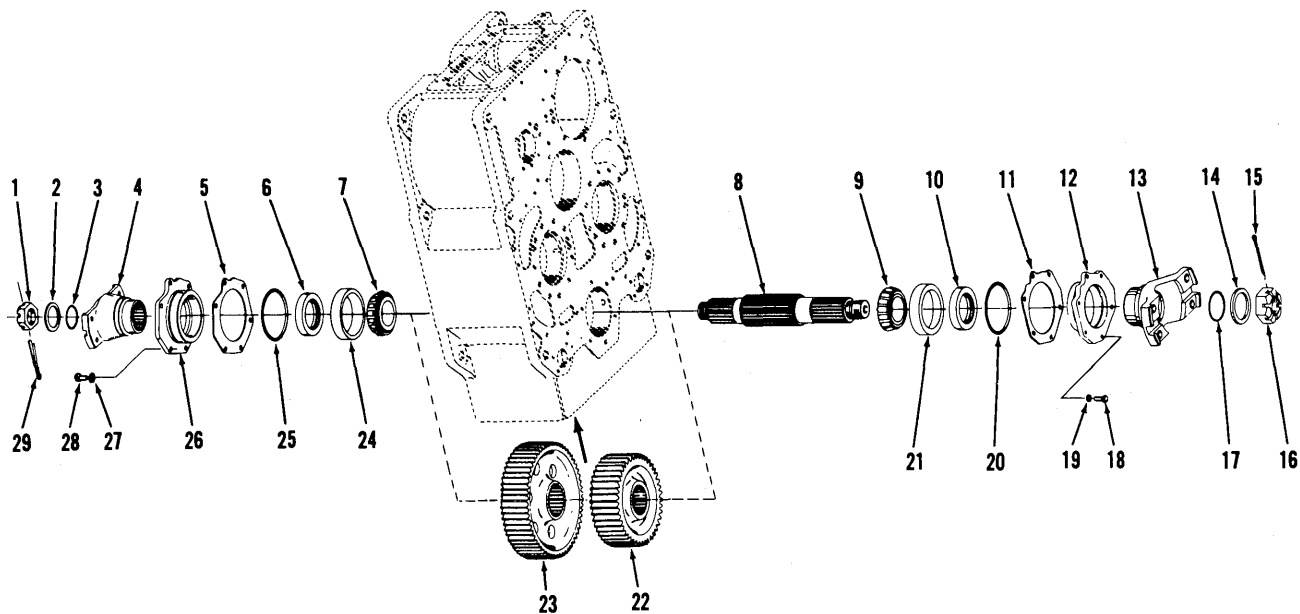


TS-4681-P

TRANSMISSION INPUT — REVERSE, THIRD & FOURTH CLUTCH GROUP**4 Clutches used in Transmission — Quantity indicated is for 1 Clutch**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	217509	RING, Oil Baffle Retaining	1	11	217411	RING, Inner Piston	1
2	217158	HUB ASSY, Clutch Disc	1	12	731627	RING, Washer Retaining	1
3	217334	SPRING, Clutch Disc Release	6	13	217165	WASHER, Bearing	1
4	217599	PIN, Clutch Disc Release Spring	6	14	664116	RING, Bearing Retaining	1
5	232394	DISC, Clutch Outer	9	15	225813	BEARING, Clutch Support	1
6	227495	DISC, Clutch Inner	10	16	217155	RACE, Outer Piston Ring	1
7	217161	PLATE, Clutch Disc End	1	17	10J-08	BALL, Outer Race	1
8	217099	RING, End Plate Retaining	1	18	217152	DRUM ASSY, Clutch (Inc. 16, 17)	1
9	217164	PISTON, Clutch	1	19	225796	BEARING, Clutch Support Roller	1
10	217361	RING, Outer Piston	1	20	223997	RING, Bearing Retaining	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-4676

TRANSMISSION OUTPUT SHAFT GROUP

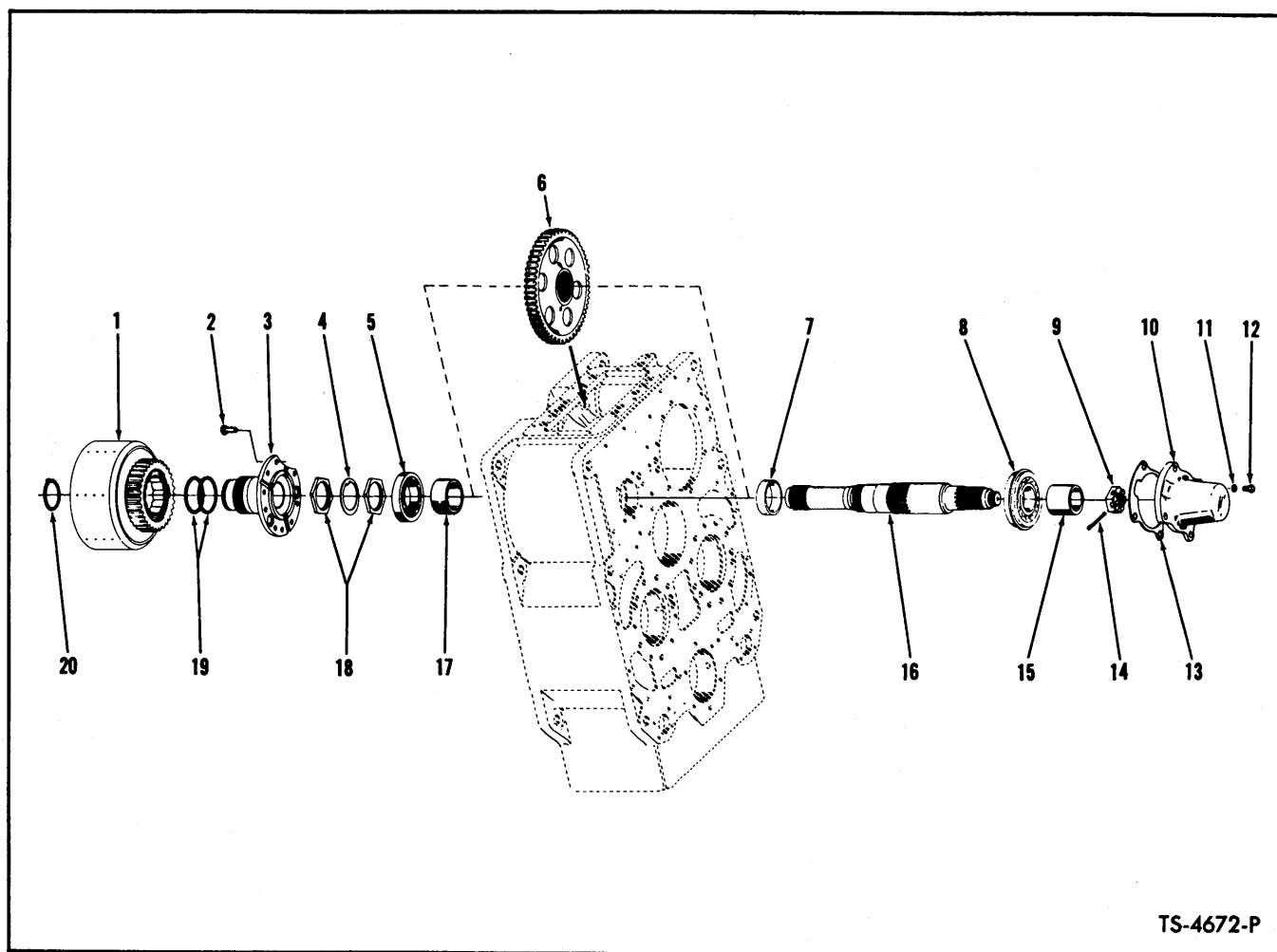
Item No.	Part No.	Description	No. Req'd.
1	201262	NUT, Output Shaft Flange	1
2	222181	WASHER, Output Shaft Flange	1
3	25K-60204	O-RING, Output Shaft Flange	1
4	226938	FLANGE, Output	1
5	217686	‡SHIM, Bearing Cap — .004"	—
5A	217687	‡†SHIM, Bearing Cap — .007"	—
5B	217688	‡†SHIM, Bearing Cap — .010"	—
6	225763	SEAL, Output Shaft Oil	1
7	225850	CONE, Output Shaft Tapered Bearing	1
8	218703	SHAFT, Output	1
9	225850	CONE, Output Shaft Tapered Bearing	1
10	225763	SEAL, Output Shaft Oil	1
11	217686	‡SHIM, Bearing Cap — .004"	—
11A	217687	‡†SHIM, Bearing Cap — .007"	—
11B	217688	‡†SHIM, Bearing Cap — .010"	—
12	217626	CAP ASSY, Output Shaft Bearing (Inc. 10)	1
13	217457	FLANGE, Output	1

Item No.	Part No.	Description	No. Req'd.
14	222181	WASHER, Output Shaft Flange	1
15	1F-632	COTTER, Output Shaft Flange Nut	1
16	201262	NUT, Output Shaft Flange	1
17	25K-60204	O-RING, Output Shaft Flange	1
18	1C-820	BOLT, Output Shaft Cap Assy	6
19	4E-08	LKWSHR, Output Shaft Cap Assy	6
20	25K-40408	O-RING, Bearing Cap	1
21	742243	CUP, Output Shaft Tapered Bearing	1
22	217343	GEAR, Output Shaft to 2nd-4th (43T)	1
23	217358	GEAR, Output Shaft to 1st-3rd (58T)	1
24	742243	CUP, Output Shaft Tapered Bearing	1
25	25K-40408	O-RING, Bearing Cap	1
26	217626	CAP ASSY, Output Shaft Bearing (Inc. 6)	1
27	4E-08	LKWSHR, Output Shaft Cap Assy	6
28	1C-820	BOLT, Output Shaft Cap Assy	6
29	1F-632	COTTER, Output Shaft Flange Nut	1

†Not Illustrated

‡As Required

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

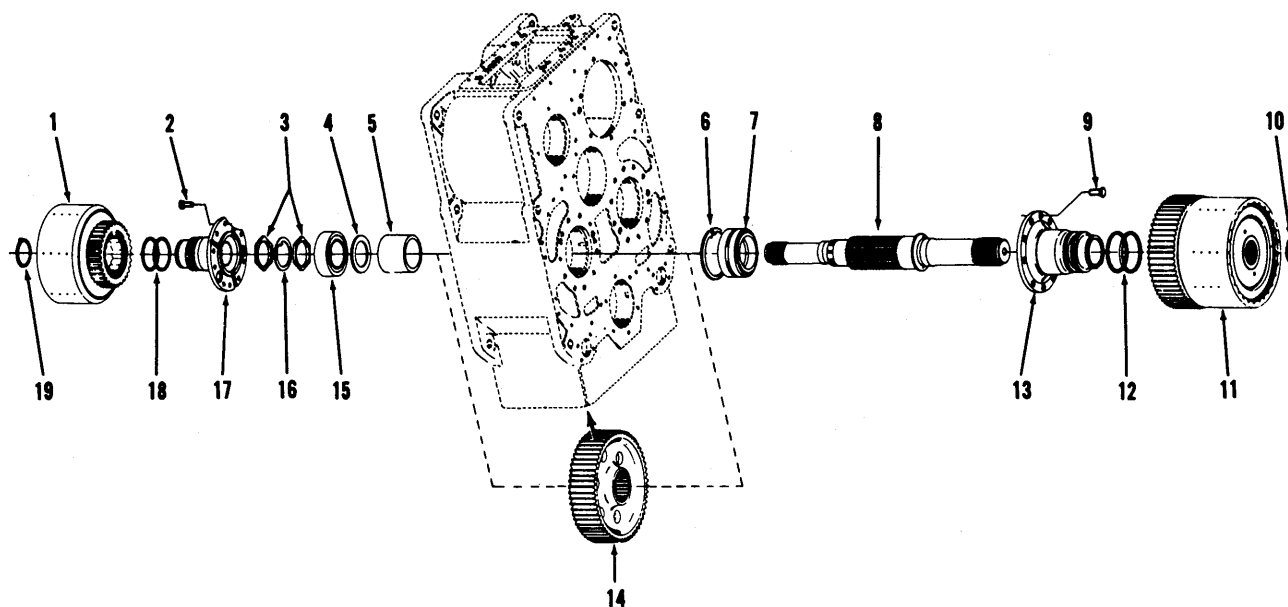


TRANSMISSION REVERSE SHAFT GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CLUTCH ASSY, Reverse — See Index..	1	11	4E-08	LKWSHR, Bearing Cap	4
2	8C-820	BOLT, Clutch Support to Case	8	12	1C-820	BOLT, Bearing Cap	4
3	217156	SUPPORT, Reverse	1	13	217490	GASKET, Bearing Cap	1
4	217507	LOCK, Bearing Nut	1	14	1F-636	COTTER, Reverse Drive Shaft	1
5	225840	BEARING, Rear Drive Shaft	1	15	217504	SPACER, Bearing	1
6	217399	GEAR, Reverse Shaft (50T)	1	16	217545	SHAFT, Reverse	1
7	217500	SPACER, Reverse Shaft Gear	1	17	217508	SPACER, Reverse Shaft Gear	1
8	225842	BEARING, Front Drive Shaft	1	18	217506	NUT, Bearing Lock	2
9	205928	NUT, Reverse Drive Shaft	1	19	223740	RING, Clutch Support Piston	2
10	217488	CAP, Bearing	1	20	659764	RING, Disc Hub Snap	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

[T12-1]



TS-4674-P

TRANSMISSION SECOND & FOURTH SHAFT GROUP

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CLUTCH ASSY, 4th Clutch—See Index	1	11	-----	CLUTCH, 2nd Clutch — See Index	1
2	8C-820	BOLT, Clutch Support to Case	8	12	217418	RING, Clutch Support Piston	2
3	217506	NUT, Bearing Lock	2	13	217128	SUPPORT, 2nd Clutch	1
4	222181	SPACER, Bearing	1	14	217342	GEAR, 2nd & 4th Shaft (60T)	1
5	217502	SPACER, 2nd & 4th Shaft Gear	1	15	225844	BEARING, 2nd & 4th Shaft	1
6	223982	RING, Bearing Retaining Snap	1	16	217507	LOCK, Bearing Nut	1
7	225400	BEARING, 2nd & 4th Shaft	1	17	217156	SUPPORT, 4th Clutch	1
8	217341	SHAFT, 2nd & 4th	1	18	223740	RING, Clutch Support Piston	2
9	8C-820	BOLT, Clutch Support to Case	8	19	659764	RING, Disc Hub Snap	1
10	660516	RING, Disc Hub Snap	1				

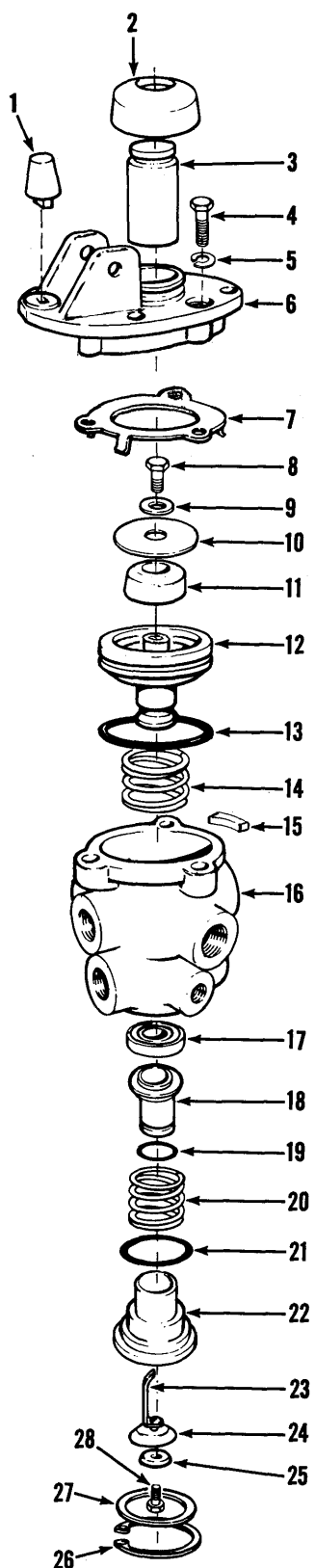
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



**"V" GROUP
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Valve Group:

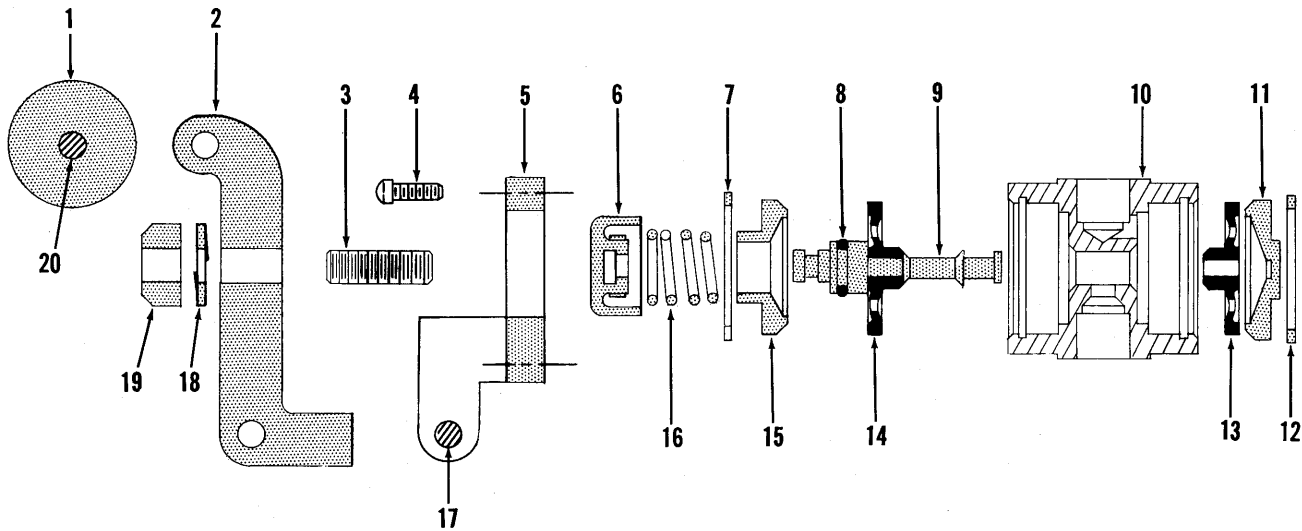
Valve Assembly, Air Brake	V2
Valve Assembly, Bucket Leveler — Air	V3
Valve Assembly — Main	V4
Section B — Boom	V5
Section C — Bucket	V6
Section D — Control	V7
Valve Relief	V8
Valve Assembly, Pilot	V11
Valve Assembly, Transmission Declutch	V14
Valve Controls and Piping	V17

VALVE ASSEMBLY — AIR BRAKE


TS-11001

Item No.	Part No.	Description	No. Req'd.
A	945996	AIR BRAKE VALVE KIT (Inc. 1 thru 28)	1
B	3290125	REPAIR KIT, Major (Inc. 1, 2, 11, 13, 14, 15, 18, 19, 20, 21, 23, 24)	1
C	3290124	REPAIR KIT, Minor (Inc. 1, 2, 18, 19, 21, 24)	1
D	3290099	REPAIR KIT, Piston Assy (Inc. 8 thru 12)	1
E	3290106	REPAIR KIT, Inlet-Exhaust Valve (Inc. 17 thru 26)	1
1	513932	RUBBER STOP	1
2	875762	RUBBER BOOT	1
3	3290122	PLUNGER, Valve	1
4	1C-520	BOLT, Mounting Plate to Body	3
5	4E-05	LKWSHR, Mounting Plate to Body	3
6	949260	MOUNTING PLATE, Valve	1
7	894543	RETAINER, Piston Assy	1
8	21C-410	BOLT, Piston	1
9	894542	WASHER, Piston Bolt	1
10	894541	SEAT, Rubber Spring	1
11	894540	SPRING, Rubber	1
12	894539	PISTON, Valve	1
13	25K-40204	O-RING, Piston	1
14	875754	SPRING, Piston Return	1
15	949261	FILTER, Felt Vent	1
16	3290105	BODY, Valve	1
17	894537	RETAINER, Valve	1
18	894538	VALVE, Inlet/Exhaust	1
19	25K-20020	O-RING, Exhaust Valve	1
20	894536	SPRING, Exhaust Valve	1
21	25K-30112	O-RING, Valve Seat	1
22	894535	SEAT, Exhaust Valve	1
23	894534	SPRING, Valve Pre-Load	1
24	894533	DIAPHRAGM, Valve Seat	1
25	894532	WASHER, Diaphragm	1
26	87G-806	SCREW, Valve Seat	1
27	661415	RING, Retainer — Exhaust Valve	1
28	949264	WASHER, Retainer Ring	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



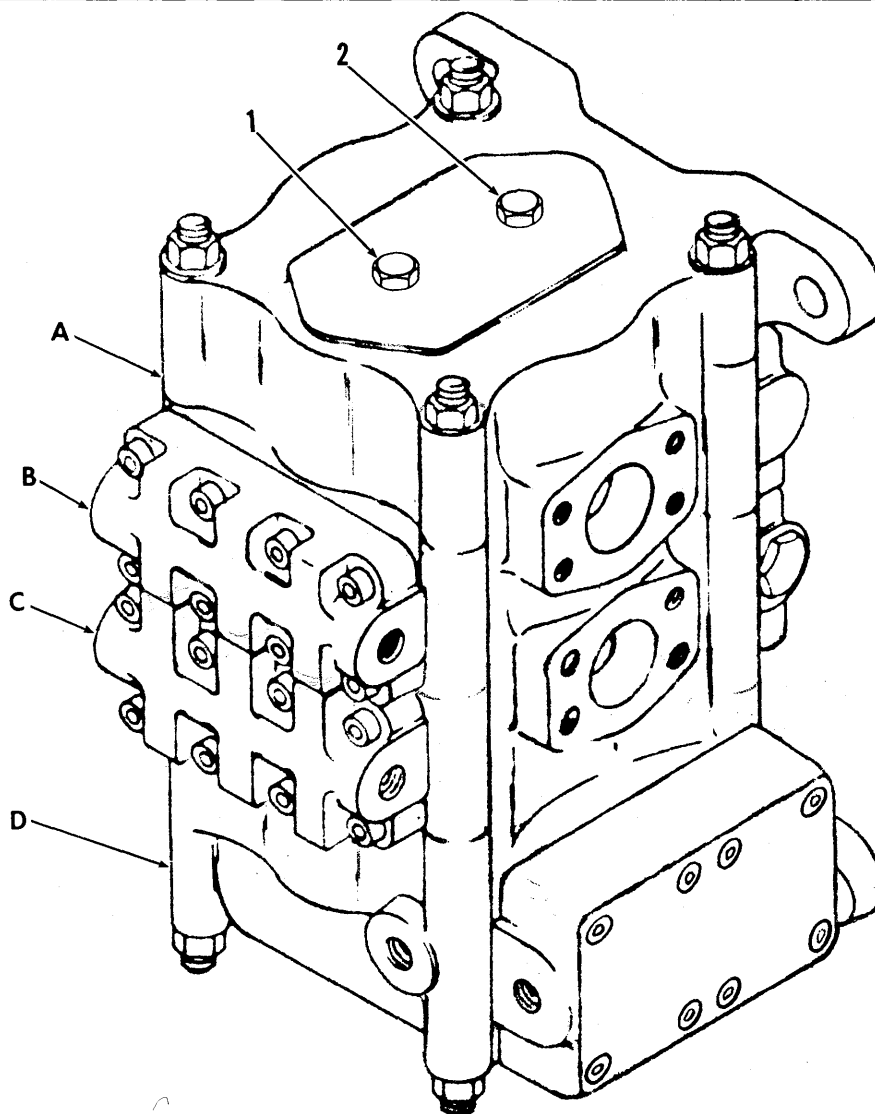
TS-8196

VALVE ASSEMBLY — BUCKET LEVELER — AIR
For Serial: 425A101 thru 316, 318 thru 325, 327 thru 330, 332 thru 336

No. Item	No. Part	Description	No. Req'd.
A	1504697	AIR VALVE ASSY (Inc. 1 thru 20)	1
B	895683	SEAL REPAIR KIT (Inc. 6, 8, 9, 13, 14, 16)	1
1	947178	ROLLER, Air Valve Lever	1
2	947175	LEVER, Air Valve	1
3	15G-416	SCREW, Adjusting	1
4	42G-1008	SCREW, Cover Bracket Attaching	4
5	947176	BRACKET, Top Cover	1
6	947177	BUTTON ASSY (Inc. 16)	1
7	1303319	RING, Retaining	1
8	25K-20012	O-RING, Stem	1
9	947165	BUTTON & STEM ASSY (Inc. 6 & 16)	1
10	—	§BODY — See "A"	—
11	947226	CLOSED END CAP	1
12	1303319	RING, Retaining	1
13	889239	DIAPHRAGM	1
14	889239	DIAPHRAGM	1
15	947225	OPEN END CAP	1
16	889242	SPRING	1
17	947179	PIVOT PIN	1
18	4E-04	LKWSHR, Adjusting Screw	1
19	1D-04	NUT, Adjusting Screw Lock	1
20	947179	PIVOT PIN	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-11111

VALVE ASSEMBLY — MAIN

No. Item	No. Part	Description	No. Req'd.
A	1513190	*CONTROL VALVE ASSY	1
1	948847	PLUG, Pipe	1
1A	91F-3	†O-RING, Plug	1
2	948847	PLUG, Pipe	1
2A	91F-3	†O-RING, Plug	1
A	-----	§COVER SECTION — See "A"	
B	-----	§BOOM SECTION "B" — See Page V5	
C	-----	§BUCKET SECTION "C" — See Page V6	
D	-----	§CONTROL SECTION "D" — See Page V7	
E	-----	†RELIEF VALVE ASSY — See Page V8	

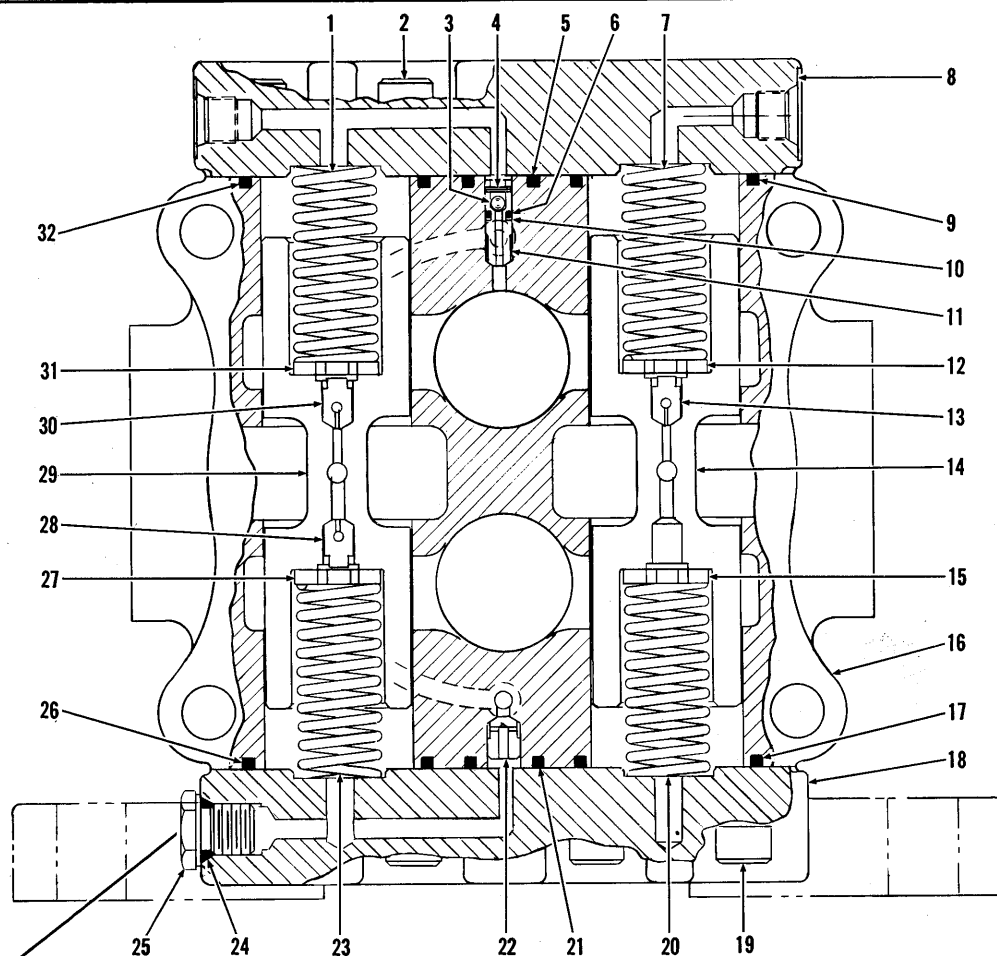
†Not Illustrated

§Not Sold Separately

*While this valve assembly consists of separate sections, for use in manufacturing, held together with through bolts with nuts on each end, DO NOT remove the through bolts or separate the sections of the valve. Also the torque on the through bolts is not to be disturbed. Disregard of these instructions can and will cause difficulties necessitating replacement of complete valve assembly. Control Valve Assy. under above designation includes all items on pages V5 thru V8.

For purpose of identification, illustration above indicates by alphabetical designation the individual section group location in control valve. Code to alphabetical designation also appears in heading of each section covered in parts listing herein.

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BOOM SECTION—B

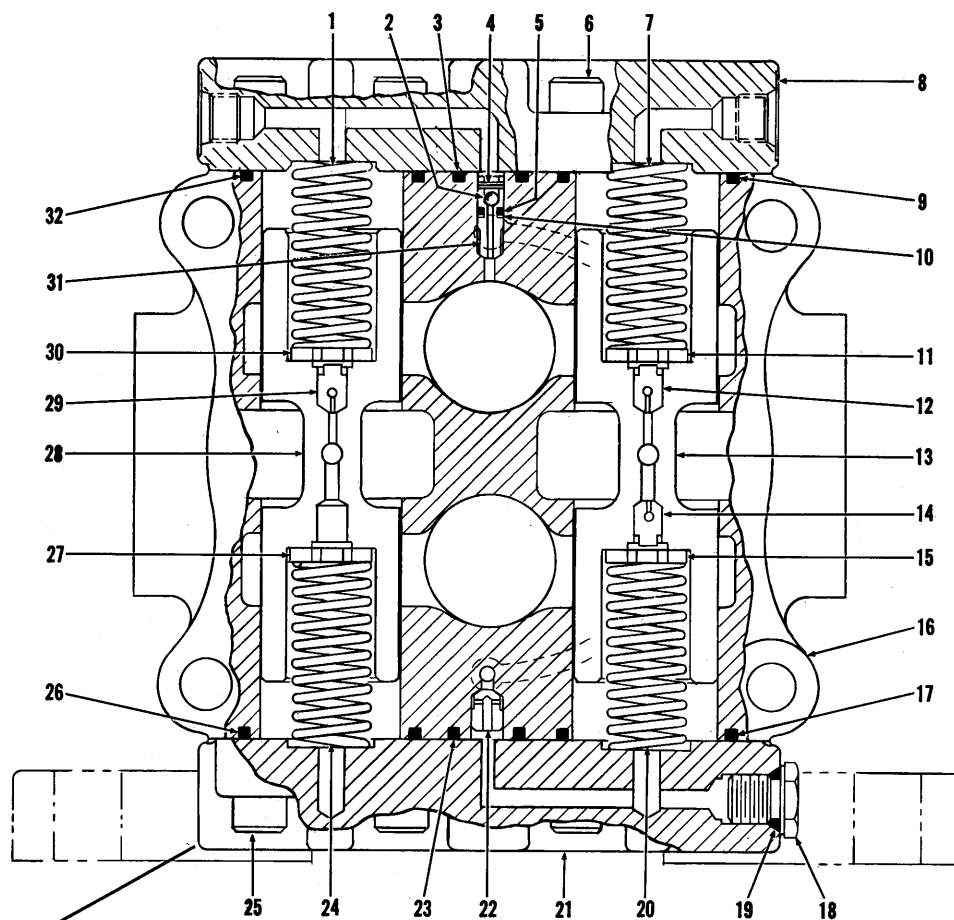
TS-10673

VALVE ASSEMBLY — MAIN — SECTION B, BOOM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	948818	SPRING, Poppet — Blue	1	18	948816	COVER	1
2	11G-828	BOLT, Cove to Housing	8	19	11G-828	BOLT, Cover to Housing	8
3	—	§BALL — See Item 11	—	20	948818	SPRING, Plunger Return — Blue	1
4	—	§PIN — See Item 11	—	21	25K-30022	O-RING, Cover	1
5	25K-30022	O-RING, Cover to Housing	1	22	948051	CHECK	1
6	948057	O-RING, Poppet	1	23	948818	SPRING, Check — Blue	1
7	948818	SPRING, Poppet — Blue	1	24	91F-6	O-RING, Plug	1
8	948817	COVER, Plunger	1	25	948058	PLUG, Cover	1
9	25K-40200	O-RING, Cover	1	26	25K-40200	O-RING, Cover	1
10	948794	RING, Back-Up	1	27	948846	WASHER	1
11	949259	POPPET ASSY (Inc. 3, 4, 6)	1	28	948789	CHECK, Red (.110 Orifice Size #35 Drill)	1
12	948846	WASHER	1	29	—	§PLUNGER — See "A"	—
13	948789	CHECK, Red (.110 Orifice Size #35 Drill)	1	30	948060	CHECK, White (.063 Orifice Size #42 Drill)	1
14	—	§PLUNGER — See "A"	—	31	948846	WASHER	1
15	948846	WASHER	1	32	25K-40200	O-RING	1
16	—	§HOUSING, Plunger — See "A"	—				
17	25K-40200	O-RING, Cover	1				

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



BUCKET SECTION-C

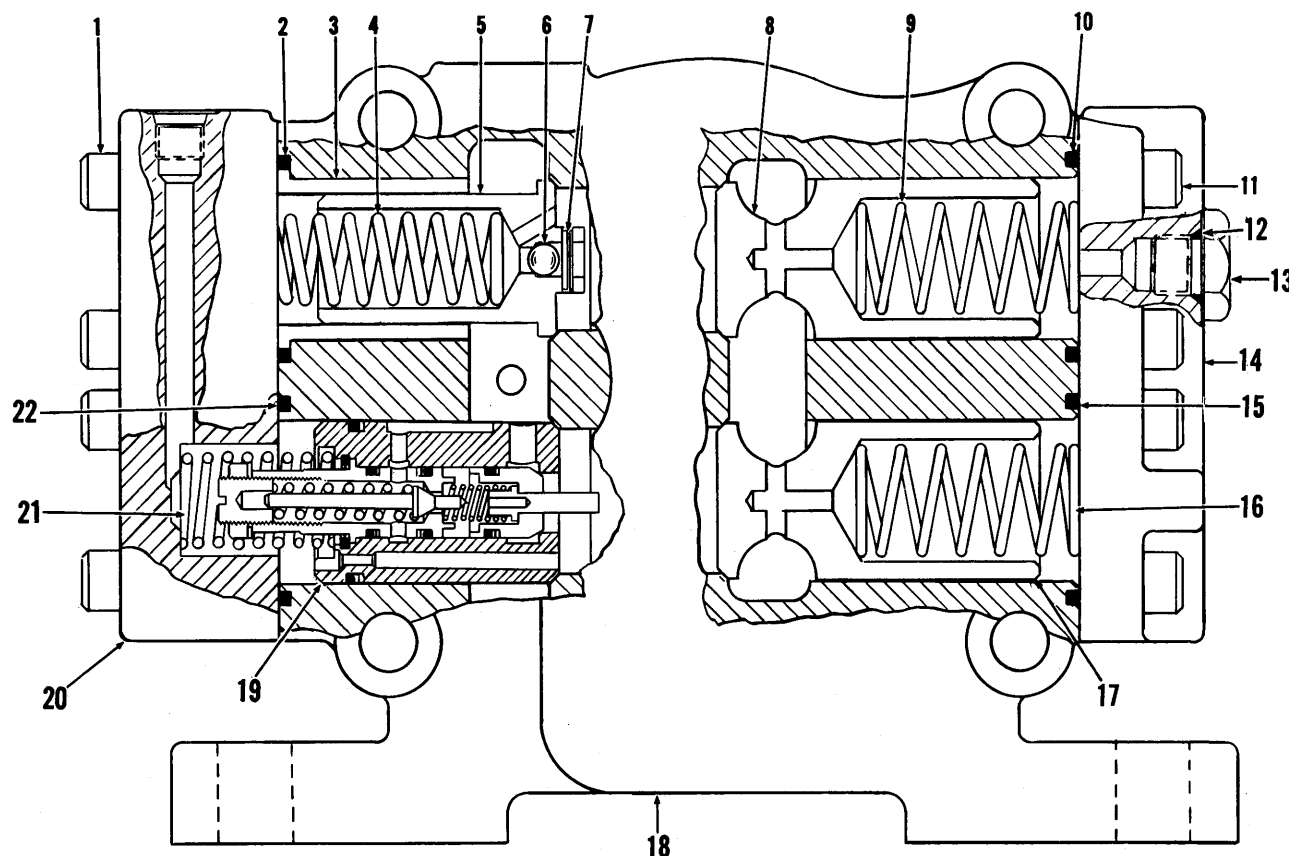
TS-10674

VALVE ASSEMBLY — MAIN — SECTION C, BUCKET

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	948818	SPRING, Poppet — Blue	1	17	25K-40200	O-RING, Cover to Housing	1
2	—	§BALL, Poppet — See 31	—	18	948058	PLUG, Cover	1
3	25K-30022	O-RING, Cover to Housing	1	19	91F-6	O-RING, Plug	1
4	—	§PIN, Poppet — See 31	—	20	948818	SPRING, Check — Blue	1
5	948057	O-RING, Poppet	1	21	948816	COVER	1
6	11G-828	BOLT, Cover to Housing	8	22	948051	CHECK	1
7	948818	SPRING, Check	1	23	25K-30022	O-RING, Cover to Housing	1
8	948817	COVER, Housing	1	24	948818	SPRING, Plunger Return — Blue	1
9	25K-40200	O-RING, Cover to Housing	1	25	11G-828	BOLT, Cover to Housing	8
10	948794	RING, Back-Up	1	26	25K-40200	O-RING, Cover to Housing	1
11	948846	WASHER	1	27	948846	WASHER	1
12	948060	CHECK, White (.063 Orifice Size # 52 Drill)	1	28	—	§PLUNGER — See "A"	—
13	—	§PLUNGER — See "A"	—	29	948060	CHECK, White (.063 Orifice Size # 52 Drill)	1
14	948054	CHECK, Green (.093 Orifice Size # 42 Drill)	1	30	948846	WASHER	1
15	948846	WASHER	1	31	949259	POPPET ASSY	1
16	—	§HOUSING — See "A"	—	32	25K-40200	O-RING, Cover	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CONTROL SECTION

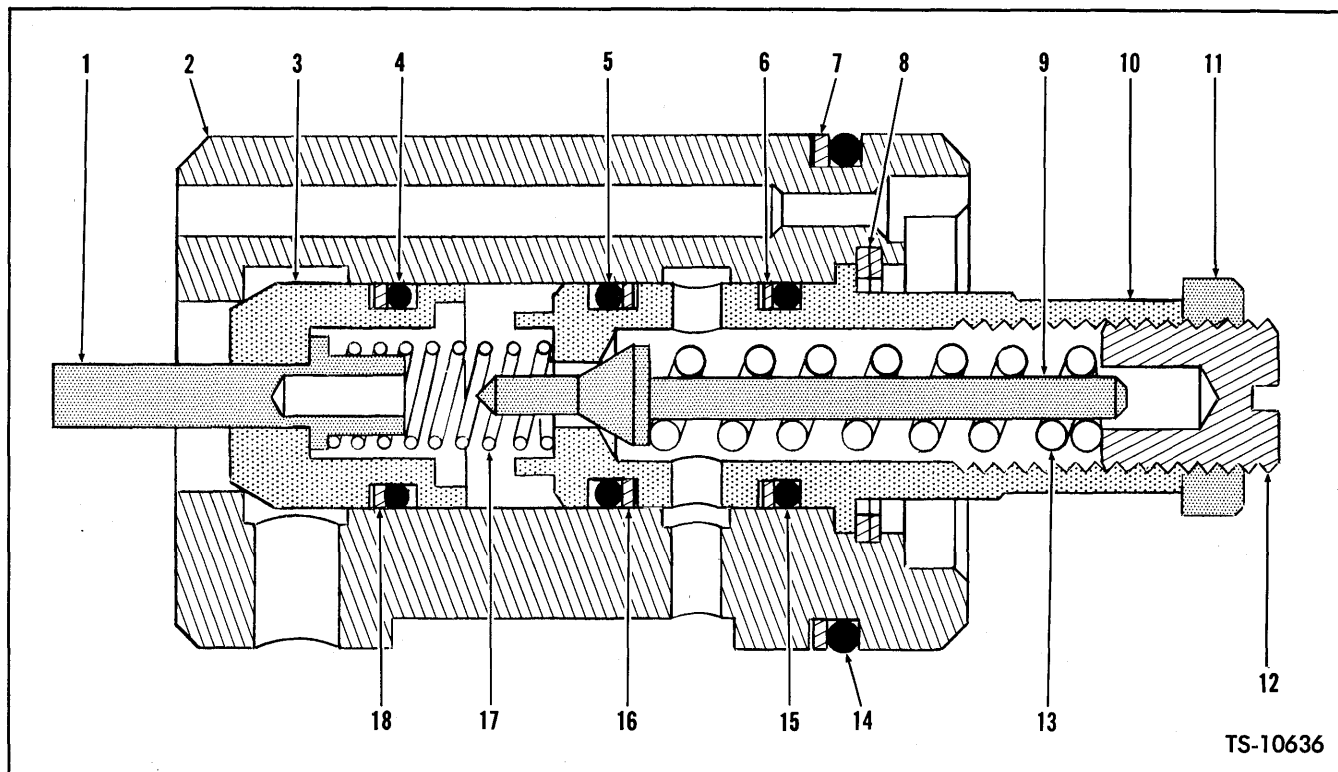
TS-11167

VALVE ASSEMBLY — MAIN — SECTION D, CONTROL

No. Item	No. Part	Description	No. Req'd.
1	11G-828	BOLT, Cover to Housing	8
2	25K-40200	O-RING, Cover	1
3	—	§ SLEEVE, Poppet — See 5	—
4	948814	SPRING, Poppet	1
5	948859	POPPET ASSY (Inc. 3, 6, 7)	1
6	—	§ BALL, Poppet — See 5	—
7	—	§ PIN, Poppet — See 5	—
8	948821	POPPET	1
9	948823	SPRING, Poppet	1
10	25K-40200	O-RING	1
11	11G-828	BOLT, Cover to Housing	8
12	91F-8	O-RING, Plug	1
13	949309	PLUG, Cover	1
14	949298	COVER, Poppet	1
15	25K-40200	O-RING, Cover	1
16	948823	SPRING, Poppet	1
17	948821	POPPET	1
18	—	§ HOUSING — See "A"	—
19	—	RELIEF VALVE — See Page V8	—
20	948820	COVER, Poppet	1
21	948815	SPRING, Relief Valve	1
22	25K-40200	O-RING, Cover	1

§ Not Sold Separately

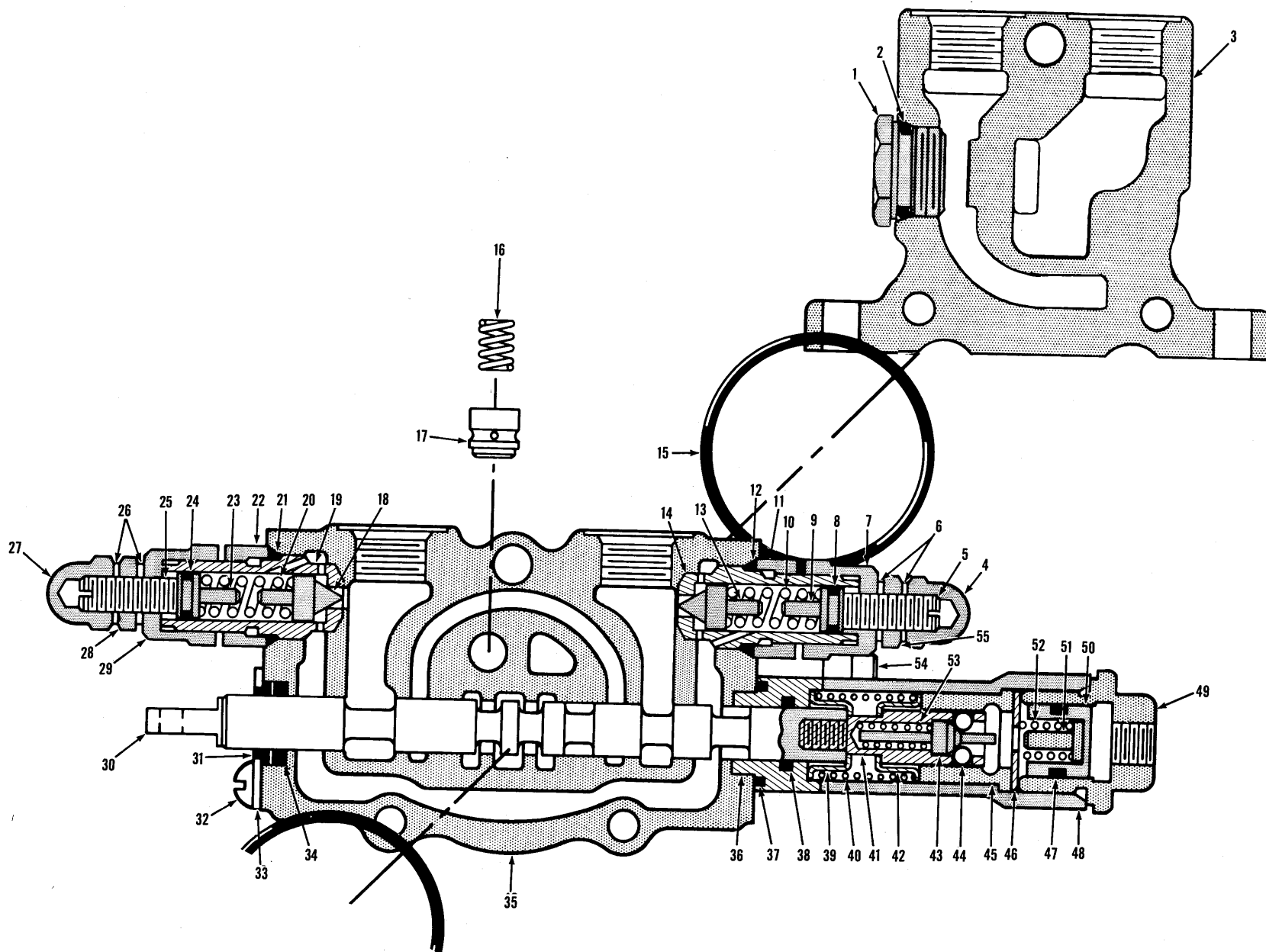
WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**VALVE, RELIEF**

No. Item	No. Part	Description	No. Req'd.
A	948854	RELIEF VALVE ASSY (Inc. 1 thru 18)	1
1	948824	PISTON	1
2	-----	§POPPET — See Item A	—
3	-----	§POPPET — See Item A	—
4	948063	O-RING, Poppet	1
5	948063	O-RING, Plug	1
6	948849	RING, Plug Back-Up	1
7	948852	RING, Poppet Back-Up	1
8	948850	RING, Snap	2
9	-----	§POPPET — See Item A	—
10	-----	§PLUG — See Item A	—
11	8D-06	NUT, Jam	1
12	948848	SCREW, Adjusting	1
13	948825	SPRING, Poppet	1
14	948851	O-RING, Poppet	1
15	948063	O-RING, Plug	1
16	948849	RING, Plug Back-Up	1
17	948129	SPRING, Piston	1
18	948849	RING, Poppet Back-Up	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE ASSEMBLY — PILOT

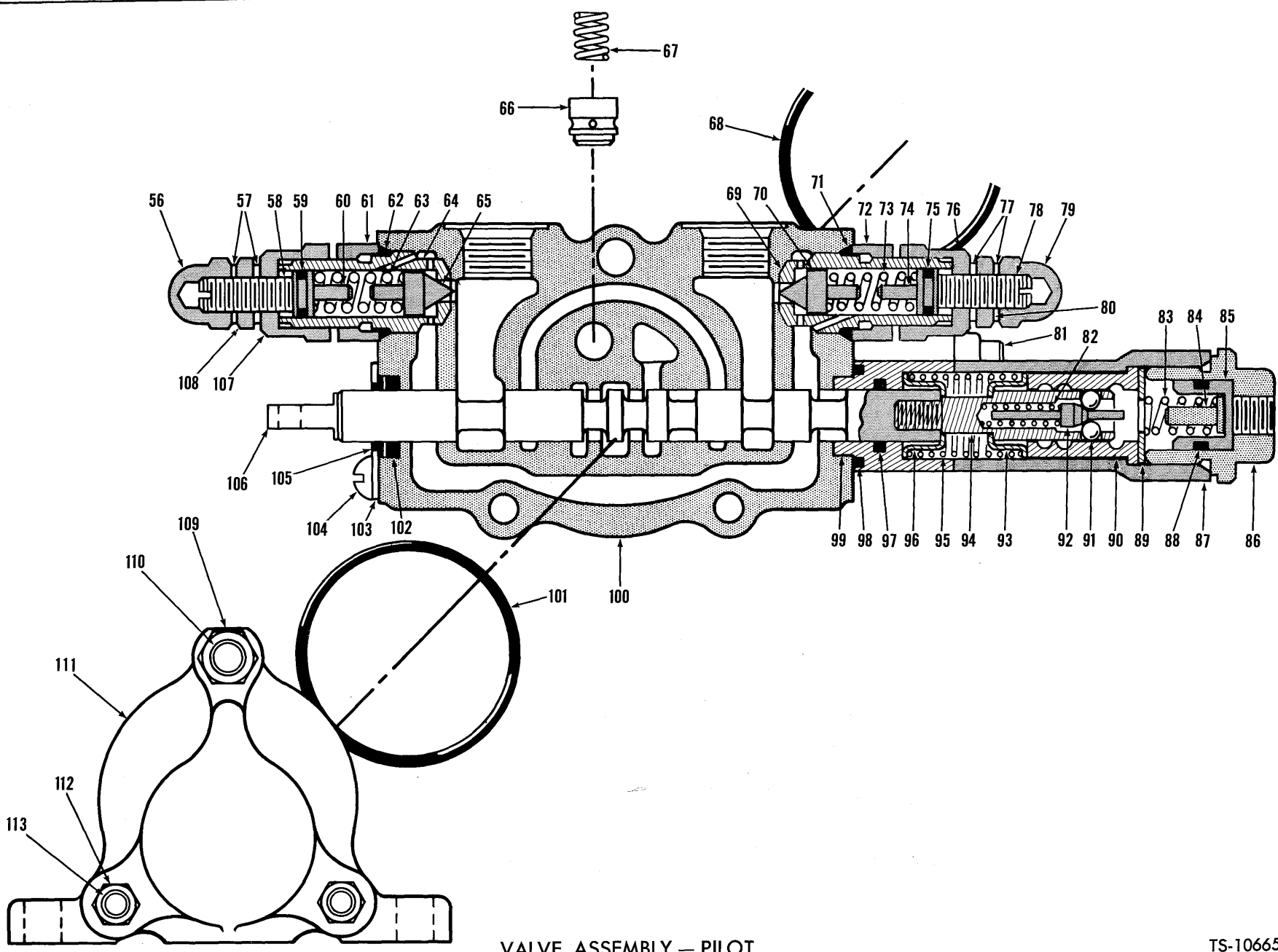
TS-10682

VALVE ASSEMBLY — PILOT

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1549451	CONTROL VALVE ASSY (Inc. 1 thru 113)	1	23	-----	§GUIDE, Spring — See "D"	—
B	948979	PLUNGER SECTION ASSY (Inc. 16, 17, 30 thru 54, 68)	1	24	-----	§O-RING, Guide — See "D"	—
C	948903	PLUNGER SECTION ASSY (Inc. 66, 67, 81 thru 106, 101)	1	25	-----	§SCREW, Adjusting	—
D	1545915	RELIEF VALVE (Inc. 18 thru 29 or 65 thru 107)	2	26	-----	§WASHER, Jam Nut — See "D"	—
E	1545916	RELIEF VALVE (Inc. 4 thru 14, 55 or 69 thru 80)	2	27	-----	§NUT, Acorn — See "D"	—
1	948810	PLUG, Inlet Section	1	28	-----	§NUT, Jam — See "D"	—
2	91F-7	O-RING, Plug	1	29	-----	§CAP, Relief Valve — See "D"	—
3	948805	INLET & OUTLET SECTION ASSY (Inc. 1, 2 & 15)	1	30	-----	§PLUNGER, Operating — See "A" & "B"	—
4	-----	§NUT, Acorn — See "E"	—	31	948021	WIPER, Plunger	1
5	-----	§SCREW, Adjusting — See "E"	—	32	71G-406	BOLT, Plate to Housing	2
6	-----	§WASHER, Jam — See "E"	—	33	948016	PLATE, Wiper & Seal Retainer	1
7	-----	§CAP, Relief Valve — See "E"	—	34	25K-30018	O-RING, Plunger	1
8	-----	§O-RING, Spring Guide — See "E"	—	35	-----	§HOUSING, Plunger Section — See "A" & "B"	—
9	-----	§GUIDE, Spring — See "E"	—	36	948981	SPACER, Cover	1
10	-----	§SPRING, Relief Valve — See "E"	—	37	25K-30024	O-RING, Spacer to Housing	1
11	-----	§NUT, Lock — See "E"	—	38	25K-30018	O-RING, Plunger	1
12	91F-7	O-RING, Relief Valve	1	39	948017	SEAT, Spring	1
13	-----	§POPPET, Relief — See "E"	—	40	948018	SPRING, Plunger Return	1
14	-----	§SEAT, Poppet — See "E"	—	41	948019	SEAT, Detent	1
15	25K-40108	O-RING, Valve Section to Valve Section	1	42	948017	SEAT, Spring	1
16	948022	SPRING, Poppet	1	43	948029	CAM, Detent	1
17	948015	POPPET	1	44	877420	BALL, Detent	4
18	-----	§POPPET, Relief Valve — See "D"	—	45	948023	SLEEVE, Detent	1
19	-----	§SEAT, Poppet — See "D"	—	46	948030	SPACER, Detent	1
20	-----	§SPRING, Poppet — See "D"	—	47	25K-30018	O-RING, Piston	1
21	91F-7	O-RING, Relief Valve	1	48	948980	CAP, Plunger	1
22	-----	§CAP, Relief Valve — See "D"	—	49	948028	PLUG, Detent	1
				50	948024	PISTON, Detent	1
				51	948025	PIN, Detent	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE ASSEMBLY — PILOT

TS-10665

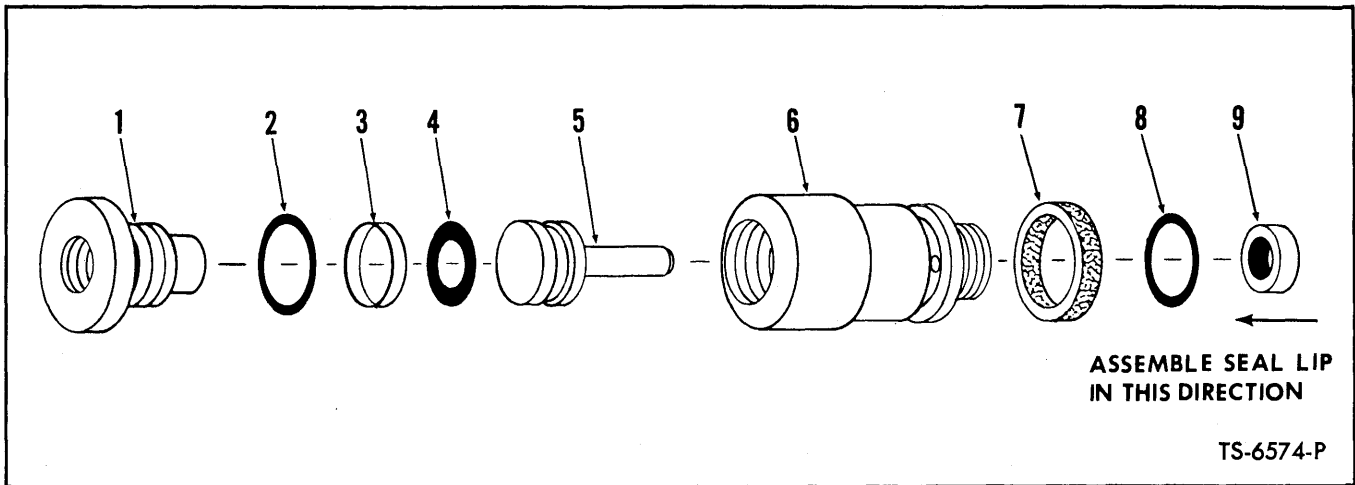
[V12-1]

VALVE ASSEMBLY — PILOT (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
52	948026	SPRING, Piston	1	83	948026	SPRING, Piston	1
53	948020	SPRING, Detent	1	84	948025	PIN, Detent	1
54	948032	BOLT, Cap to Housing	2	85	948024	PISTON	1
55	-----	§NUT, Relief Valve — See "E"	—	86	948028	PLUG, Piston	1
56	-----	§NUT, Acorn — See "E"	—	87	948980	CAP, Detent	1
57	-----	§WASHER, Jam Nut — See "E"	—	88	25K-30018	O-RING, Piston	1
58	-----	§SCREW, Adjusting — See "E"	—	89	948030	SPACER	1
59	-----	§O-RING, Spring Guide — See "E"	—	90	948034	SLEEVE, Detent	1
60	-----	§GUIDE, Spring — See "E"	—	91	877420	BALL, Detent	4
61	-----	§NUT, Lock — See "E"	—	92	948029	CAM, Detent	1
62	91F-7	O-RING, Relief Valve	1	93	948017	SEAT, Spring	1
63	-----	§SPRING, Relief Valve — See "E"	—	94	948033	PIN, Detent	1
64	-----	§SEAT, Poppet — See "E"	—	95	948018	SPRING, Plunger Return	1
65	-----	§POPPET, Relief Valve — See "E"	—	96	948017	SEAT, Spring	1
66	948015	POPPET	1	97	25K-30018	O-RING, Plunger	1
67	948022	SPRING, Poppet	1	98	25K-30024	O-RING, Spacer to Housing	1
68	25K-40108	O-RING, Valve Section to Valve Section	1	99	948981	SPACER, Cover	1
69	-----	§SEAT, Poppet — See "D"	—	100	-----	§HOUSING, Plunger Section	—
70	-----	§POPPET, Relief Valve — See "D"	—	101	25K-40108	O-RING, Valve Section to Valve Section	1
71	91F-7	O-RING, Relief Valve	1	102	25K-30018	O-RING, Plunger	1
72	-----	§CAP, Relief Valve — See "D"	—	103	948016	PLATE, Wiper Retainer	1
73	-----	§SPRING, Relief Valve — See "D"	—	104	71G-406	SCREW, Plate to Housing	1
74	-----	§GUIDE, Spring — See "D"	—	105	948021	WIPER, Plunger	1
75	-----	§O-RING, Spring Guide — See "D"	—	106	-----	§PLUNGER, Operating	—
76	-----	§CAP, Relief Valve — See "D"	—	107	-----	§CAP, Relief Valve	—
77	-----	§WASHER, Jam Nut — See "D"	—	108	-----	§NUT, Jam — See "F"	—
78	-----	§SCREW, Adjusting — See "D"	—	109	62D-06	NUT	2
79	-----	§NUT, Acorn — See "D"	—	110	948014	TIE ROD	1
80	-----	§NUT, Jam — See "D"	—	111	948010	COVER, Valve End	1
81	11G-428	BOLT, Cover to Housing	2	112	1D-06	NUT	4
82	948020	SPRING, Detent	1	113	948013	TIE ROD	2

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

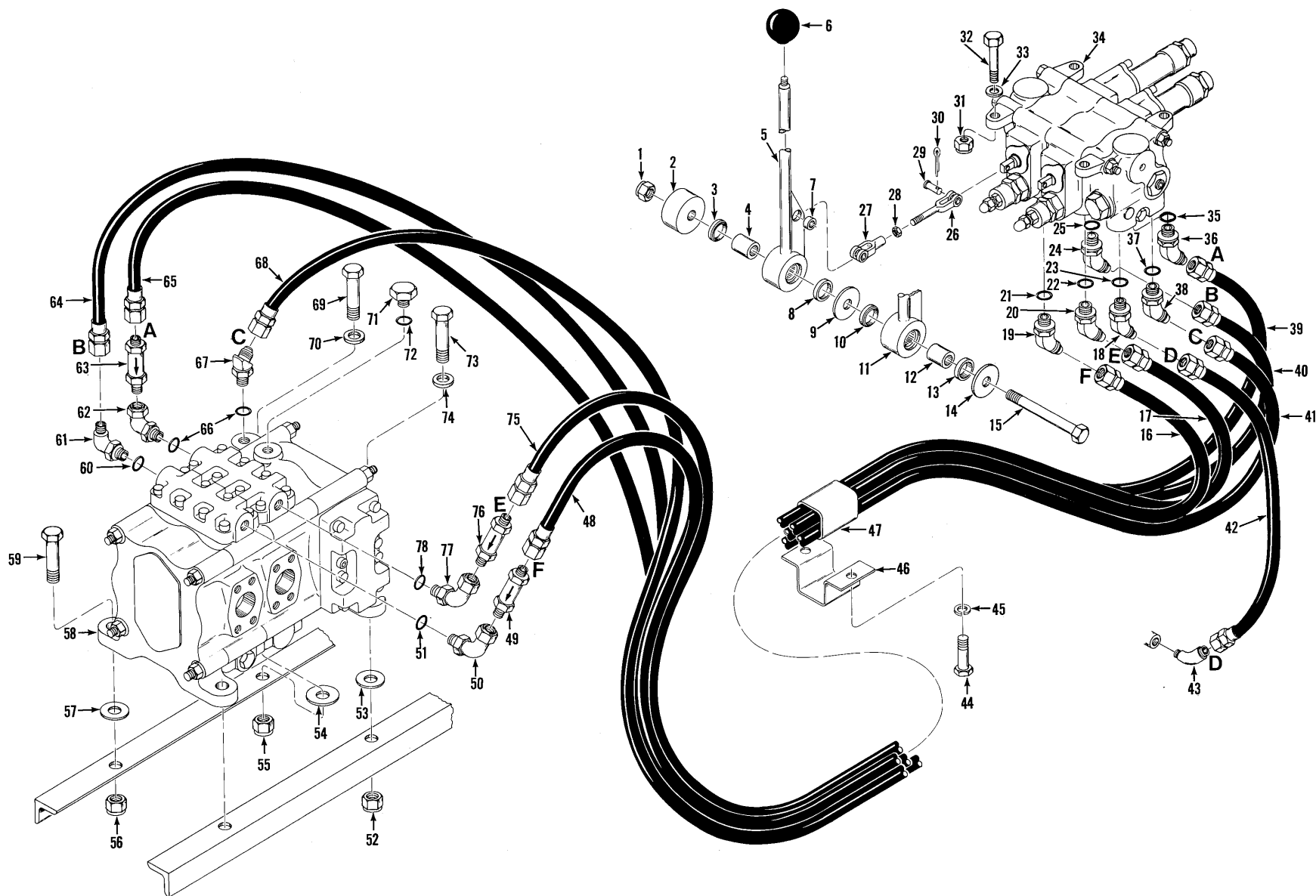


VALVE ASSEMBLY – TRANSMISSION DECLUTCH

Item No.	Part No.	Description	No. Req'd.
A	217927	VALVE ASSY (Inc. 1 thru 9)	1
1	217928	PLUG, Piston Stop	1
2	91F-8	"O" RING, Plug	1
3	227672	RING, Piston	1
4	25K-30020	"O" RING, Piston	1
5	227673	PISTON, Valve	1
6	217929	HOUSING, Valve	1
7	228931	SEAL, Band	1
8	25K-30022	"O" RING, Housing	1
9	224315	SEAL, Piston Oil	1

NOTES

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE CONTROLS & PIPING

TS-11500 B

VALVE CONTROLS & PIPING

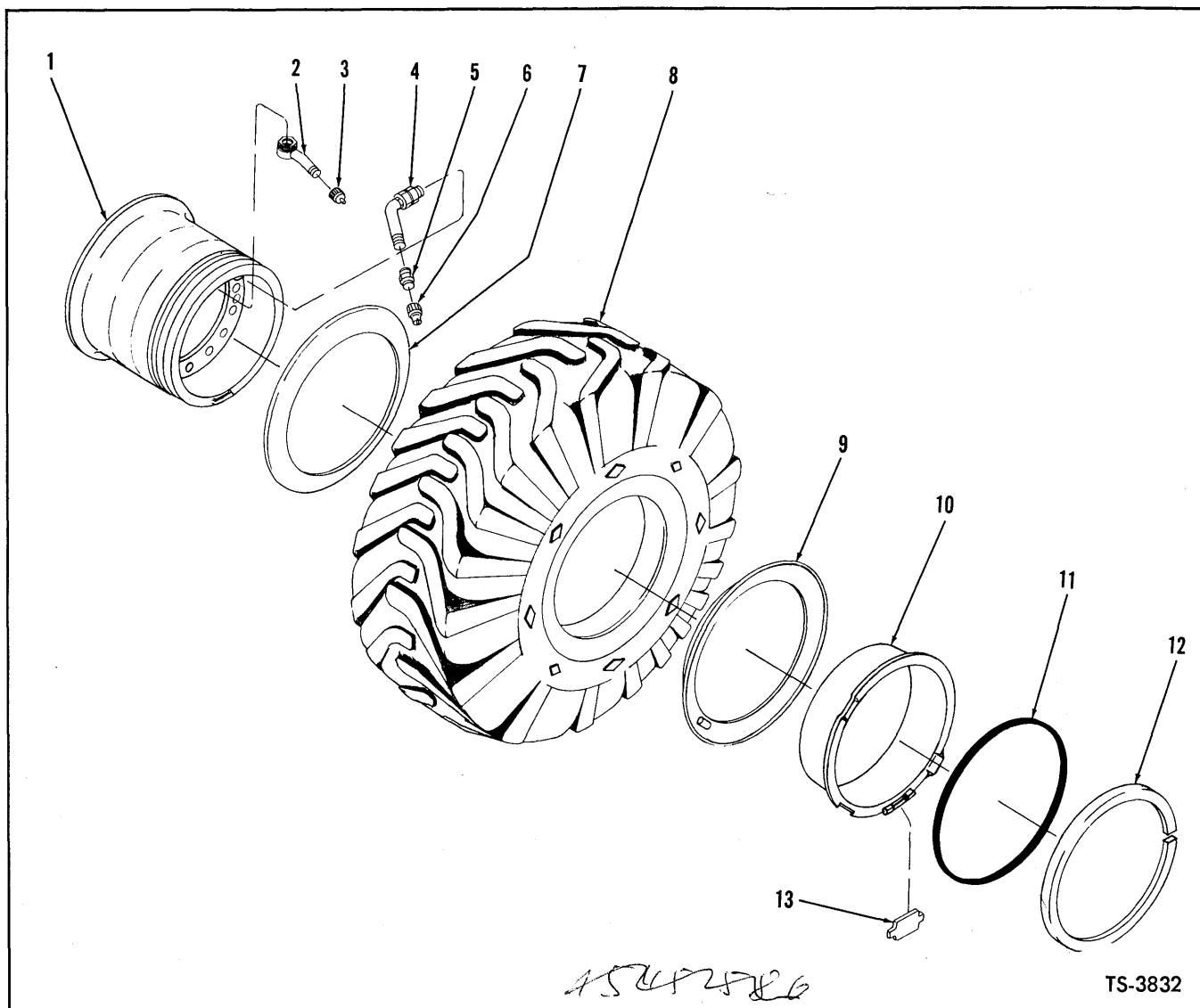
Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	18D-08	NUT, Lever Mounting	1	39	1538812	HOSE, Valve to Valve	1
2	730482	SPACER, Lever Mounting	1	40	1538812	HOSE, Valve to Valve	1
3	1522535	SEAL, Grease	1	41	1300303	HOSE, Valve to Valve	1
4	1503251	SPACER, Lever	1	42	562796	HOSE, Valve to Reservoir	1
5	1542767	LEVER, Boom Control (Inc. 5A)	1	43	84F-7	ELBOW, Hose to Reservoir	1
5A	675227	†BEARING, Lever	1	44	24C-820	BOLT, Clamp to Frame	4
6	509772	KNOB, Bucket & Boom Control Lever	2	45	4E-08	LKWSHR, Clamp to Frame	4
7	1542764	BUSHING, Lever to Clevis Pin	2	46	1537986	CLAMP, Hose	2
8	1522535	SEAL, Grease	1	47	1M-22040	HOSE, Hose Protection	3
9	584502	WASHER, Lever Mounting	1	48	-----	HOSE, Valve to Valve (See 16)	1
10	1522535	SEAL, Grease	1	49	1510741	VALVE, Restrictor	1
11	1542769	LEVER, Bucket Control (Inc. 11A)	1	50	1304056	ELBOW, Valve to Valve (Inc. 51)	1
11A	675227	BEARING, Lever	1	51	91F-6	O-RING, Elbow	1
12	1503251	SPACER, Lever	1	52	18D-14	NUT, Valve Mounting	1
13	1522535	SEAL, Grease	1	53	1512415	WASHER, Valve Mounting	1
14	584502	WASHER, Lever Mounting	1	54	1512415	WASHER, Valve Mounting	1
15	18C-896	BOLT, Lever Mounting	1	55	18D-14	NUT, Valve Mounting	1
16	1538812	HOSE, Valve to Valve	1	56	18D-14	NUT, Valve Mounting	1
17	1538812	HOSE, Valve to Valve	1	57	1512415	WASHER, Valve Mounting	1
18	18K-7	ELBOW, Hose to Valve (Inc. 23)	1	58	-----	VALVE, Main — See Index	—
19	18K-6	ELBOW, Hose to Valve (Inc. 21)	1	59	24C-1444	BOLT, Valve Mounting	1
20	18K-6	ELBOW, Hose to Valve (Inc. 22)	1	60	91F-6	O-RING, Elbow	1
21	91F-6	O-RING, Elbow	1	61	17K-6	ELBOW, Hose to Valve	1
22	91F-6	O-RING, Elbow	1	62	1304056	ELBOW, Valve to Valve (Inc. 66)	1
23	91F-7	O-RING, Elbow	1	63	1510741	VALVE, Restrictor	1
24	18K-6	ELBOW, Hose to Valve (Inc. 25)	1	64	-----	HOSE, Valve to Valve — See 40	1
25	91F-6	O-RING, Elbow	1	65	-----	HOSE, Valve to Valve — See 39	1
26	1537881	ROD ASSY (Inc. 27, 28)	2	66	91F-6	O-RING, Elbow	2
27	2J-4200	CLEVIS, Lever to Valve	2	67	1547152	ELBOW, Hose to Valve (Inc. 66)	1
28	8D-04	NUT, Jam	2	68	-----	HOSE, Valve to Valve — See 42	1
29	4F-04051	PIN, Clevis	4	69	24C-1444	BOLT, Valve Mounting	1
30	1F-207	COTTER, Clevis Pin	4	70	25E-29	WASHER, Valve Mounting	1
31	18D-06	NUT, Valve Mounting	4	71	24K-7	PLUG, Pipe (Inc. 72)	1
32	24C-628	BOLT, Valve Mounting	4	72	91F-7	O-RING, Plug	1
33	656672	WASHER, Valve Mounting	4	73	24C-1444	BOLT, Valve Mounting	1
34	-----	VALVE, Pilot — See Index	—	74	25E-29	WASHER, Valve Mounting	1
35	91F-6	O-RING, Elbow	1	75	-----	HOSE, Valve to Valve — See 17	1
36	18K-6	ELBOW, Hose to Valve (Inc. 35)	1	76	1512096	VALVE, Restrictor	1
37	91F-7	O-RING, Elbow	1	77	1304056	ELBOW, Valve to Valve	1
38	18K-7	ELBOW, Hose to Valve (Inc. 37)	1	78	91F-6	O-RING, Elbow	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**"W" GROUP
CONTENTS**

Wheel and Tire DataW 2



TS-3832

WHEEL & TIRE DATA

Item No.	Part No.	Description	No. Req'd.
1	1546079	WHEEL	4
2	531112	STEM, Water Filling (Inc. 2A, 2B, 3)	4
2A	529605	†NUT	4
2B	529606	†GROMMET	4
3	531111	CAP	4
4	509445	STEM, Valve (Inc. 5, 6)	4
5	551684	ADAPTER, Valve Stem	4
6	551685	CAP, Valve Stem	4
7	513113	FLANGE	4
8	—	§TIRE	4
9	513113	FLANGE	4
10	523252	BAND, Bead Seat	4
11	513117	O-RING	4
12	523253	RING, Lock	4
13	886799	DRIVER	4
14	15G-1416	†SCREW, Puller Holes	12

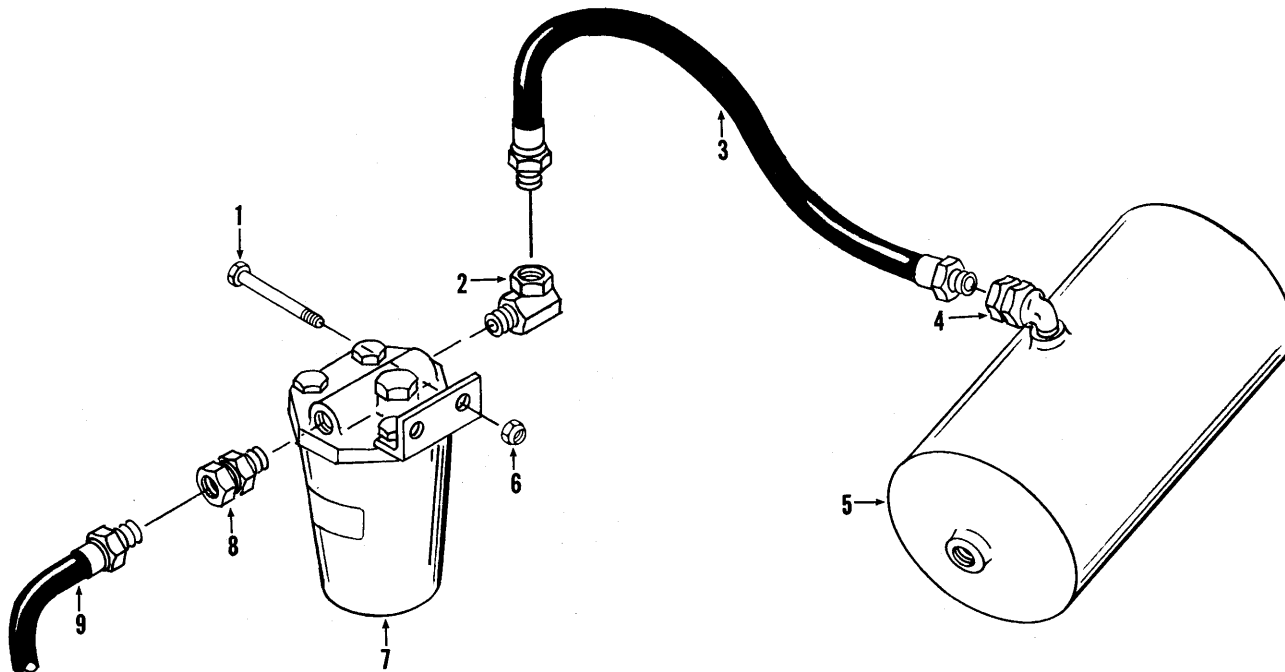
†Not Illustrated

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WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

**"Z" GROUP
CONTENTS**

Alcohol Injector	Z3
Cab Assembly	Z5
Canopy Roll Bar	Z8
Defroster Fan Assembly	Z9
Heater Assembly	Z10
Heater Installation	Z11
Lifting Lugs & Decals	Z12
Side Panels	Z13
Valve Assembly — 3 Spool — Main	Z15—Z19
Valve Assembly — 3 Spool — Pilot	Z21—Z25
Valve Controls — 3 Spool	Z27
Valve Installation & Parts — 3 Spool	Z29
Windshield Wipers — Front & Rear	Z31

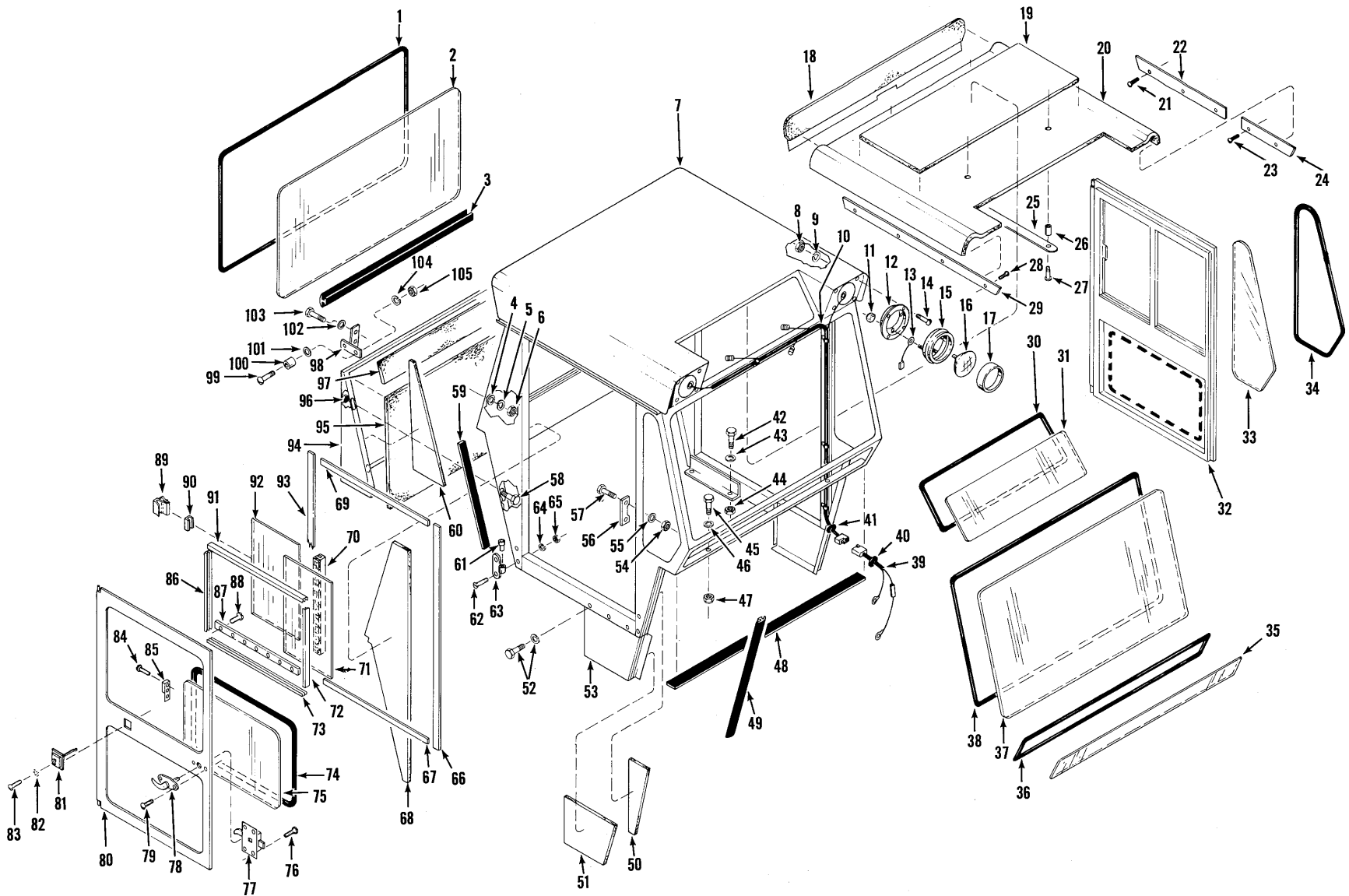


TS-11651 B

ALCOHOL INJECTOR

No. Item	No. Part	Description	No. Req'd.
1	24C-616	BOLT, Injector Mounting	2
2	31F-4	ADAPTER, Injector to Hose	1
3	593268	HOSE, Tank to Injector	1
4	731333	ELBOW, Tank to Hose	1
5	-----	AIR TANK — See Index	—
6	18D-06	NUT, Injector Mounting	2
7	1545296	ALCOHOL INJECTOR	1
8	36F-4	ADAPTER, Injector to Hose	1
9	1520490	HOSE, Tube to Injector	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CAB ASSEMBLY

TS-11413

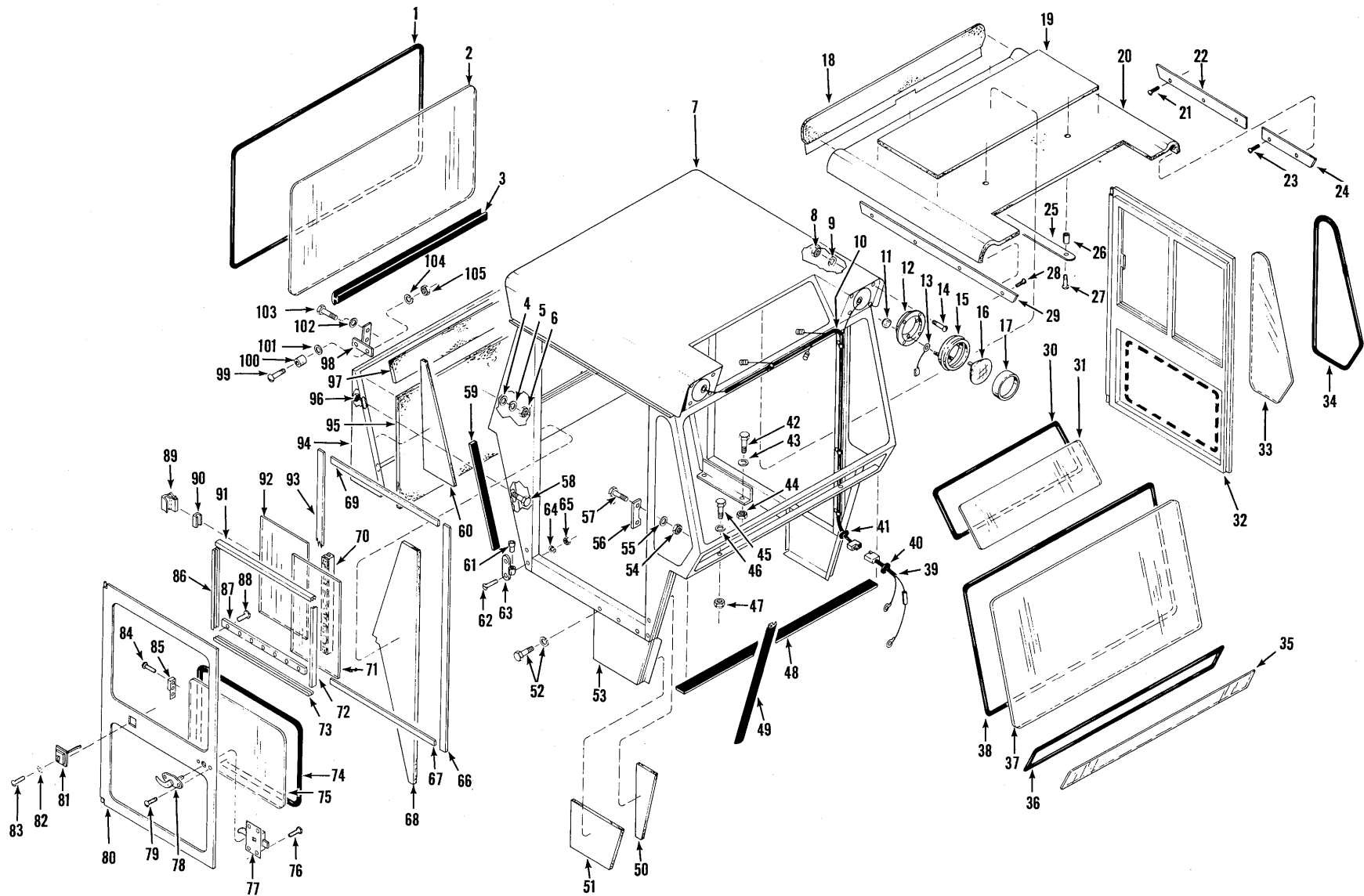
CAB ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1536572	CAB ASSY (Inc. 1 thru 9, 12, 14, 30 thru 38, 48, 49, 52 thru 57, 59, 61 thru 67, 69 thru 93, 98 thru 105)	1	24	1514765	TRIMSTRIP, Headliner — L.H. — Front ..	1
B	1514801	CAB ASSY (Inc. 1 thru 9, 12, 14, 18 thru 38, 48 thru 57, 59, 61 thru 93, 98 thru 105)	1	25	1514764	STRAP, Headliner Support	2
1	569694	MOULDING, Rear Window	11 ft.	26	1514763	SPACER, Strap to Cab	4
2	-----	§GLASS PATTERN, Rear Window (See 106)	—	27	14G-824	SCREW, Strap to Cab	4
3	943623	WEATHERSTRIP, Cab — Rear	5 ft.	28	85G-1012	SCREW, Trimstrip to Cab	4
4	619018	WASHER, Door Latch Strike	4	29	1514766	TRIMSTRIP, Headliner — R.H.	1
5	4E-04	LKWSHR, Door Latch Strike	4	30	569694	MOULDING, Roof Glass	6 ft.
6	1D-04	NUT, Door Latch Strike	4	31	-----	§GLASS PATTERN, Roof Glass (See 106) ..	—
7	-----	§CAB (See "A")	—	32	-----	DOOR ASSY (See 80)	1
8	12D-10	NUT, Headlamp Adapter Attaching	8	33	-----	§GLASS PATTERN, Quarter Window (See 106)	—
9	17E-10	LKWSHR, Headlamp Adapter Attaching	8	34	569694	MOULDING, Quarter Window	10 ft.
10	1544320	WIRE HARNESS, Floodlamp	1	35	-----	§GLASS PATTERN, Lower Windshield (See 106)	—
10A	30H-14	†CLIP, Wire Harness	3	36	569694	§MOULDING, Lower Windshield	12 ft.
11	50D-10	NUT, Headlamp Attaching	6	37	-----	§GLASS PATTERN, Upper Windshield (See 106)	—
12	568675	ADAPTER, Headlamp	2	38	569694	MOULDING, Upper Windshield	10 ft.
13	540882	WIRE, Headlamp Ground	2	39	1544319	WIRE HARNESS, Cockpit	1
14	85G-1012	SCREW, Adapter to Cab	8	40	515069	GROMMET, Wire Harness	1
15	582057	HEADLAMP ASSEMBLY (Inc. 16, 17)	2	41	515069	GROMMET, Wire Harness	1
16	551244	SEALED UNIT, Headlamp	2	42	24C-624	BOLT, Cab Mounting — Side	4
17	944977	RETAINER, Headlamp	2	43	616783	WASHER, Cab Mounting — Side	4
18	1543830	PANEL — Rear Top	1	44	18D-06	LOCKNUT, Cab Mounting — Side	4
19	1543825	BACKING, Headliner	1	45	24C-628	BOLT, Cab Mounting — Front	2
20	1543826	HEADLINER	1	46	616783	WASHER, Cab Mounting — Front	2
21	14G-608	SCREW, Trimstrip to Cab	3	47	18D-06	LOCKNUT, Cab Mounting — Front	2
22	1514767	TRIMSTRIP, Headliner — L.H. — Rear ..	1	48	1521844	WEATHERSTRIP, Cab — Front	4 ft.
23	14G-608	SCREW, Trimstrip to Cab	2	49	569692	WEATHERSTRIP, Cab — Front	5 ft.
				50	1543800	PANEL, Front Door Post — R.H.	1
				50A	1543799	†PANEL, Front Door Post — L.H.	1
				51	1543828	PANEL, Kick Plate — R.H.	1

§Not Sold Separately

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



CAB ASSEMBLY

TS-11413

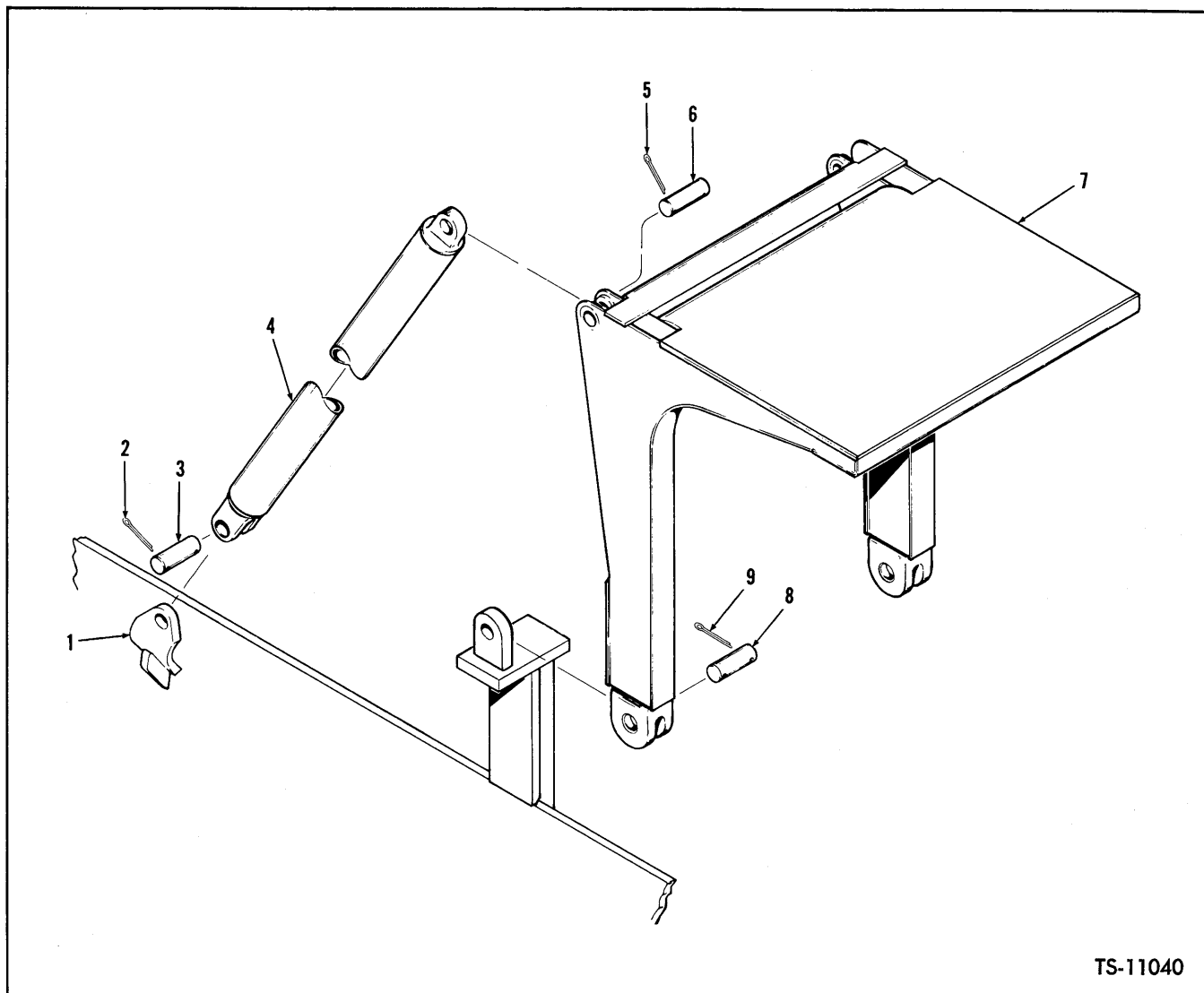
CAB ASSEMBLY (Continued)

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
51A	1543827	†PANEL, Kick Plate — L.H.	1	77	138249	LOCK, Door — R.H.	1
52	17C-410	BOLT, Quarter Panel to Cab	6	77A	942874	†LOCK, Door — L.H.	1
52A	4E-04	LKWSHR, Quarter Panel to Cab	6	78	1525710	HANDLE, Door	2
53	568686	PANEL, Lower Quarter — R.H.	1	79	32G-1008	SCREW, Handle to Door	4
53A	568687	†PANEL, Lower Quarter — L.H.	1	80	1536571	DOOR — R.H.	1
54	1D-04	NUT, Door Lock Strike Attaching	4	80A	1536570	†DOOR — L.H.	1
55	4E-04	LKWSHR, Door Lock Strike Attaching	4	81	560650	CATCH — Door	2
56	945576	STRIKE, Door Lock	2	82	17E-10	LKWSHR, Door Catch Attaching	8
57	47G-412	SCREW, Door Lock Strike Attaching	4	83	87G-1010	SCREW, Door Catch Attaching	8
58	24C-616	BOLT, Rear Panel to Cab	5	84	5G-606	SCREW & LKWSHR ASSY, Window Lock Strike Attaching	8
59	943623	WEATHERSTRIP, Cab — Rear	3 ft.	85	557465	STRIKE, Window	4
60	1543803	PANEL, Rear Cover Side — R.H.	1	86	569696	CHANNEL, Side Glass Run — Rear	4 ft.
60A	1543801	†PANEL, Rear Cover Side — L.H.	1	87	945577	RETAINER, Glass Channel	2
61	568700	BUSHING, Cab Door Hinge	4	88	65G-1008	SCREW, Retainer to Door	14
62	76G-512	SCREW, Hinge to Cab	8	89	589571	LOCK, Sliding Glass	4
63	945555	HINGE, Cab Door — R.H. Upper & L.H. Lower	2	90	946115	RUBBER, Lock to Glass	1 ft.
63A	945554	†HINGE, Cab Door — L.H. Upper & R.H. Lower	2	91	569696	CHANNEL, Side Glass Run — Upper	4 ft.
64	4E-05	LKWSHR, Cab Door Hinge Attaching	8	92	———	§GLASS PATTERN, Sliding Door (See 106)	—
65	1D-05	NUT, Cab Door Hinge Attaching	8	93	*943623	WEATHERSTRIP, Door — Rear	7 ft.
66	943623	WEATHERSTRIP, Door — Front	7 ft.	94	571854	PANEL, Cab — Rear	1
67	943623	WEATHERSTRIP, Door — Lower	5 ft.	95	1543804	PANEL, Rear Panel	1
68	1543809	PANEL, Door Post, Rear — R.H.	1	96	18D-06	NUT, Rear Panel to Cab	5
68A	1543808	PANEL, Door Post, Rear — L.H.	1	97	1543829	PANEL, Cab, Rear Bottom	1
69	943623	WEATHERSTRIP, Door — Upper	5 ft.	98	574992	STRIKE, Door Latch — L.H.	1
70	139149	CHANNEL, Glass Divider	4 ft.	98A	1501803	†STRIKE, Door Latch — R.H.	1
71	———	§GLASS PATTERN, Sliding Door (See 106)	—	99	85G-1016	BOLT, Bumper to Strike Latch	2
72	569696	CHANNEL, Side Glass Run — Front	4 ft.	100	560651	BUMPER, Latch Strike	2
73	569696	CHANNEL, Side Glass Run — Lower	4 ft.	101	874767	SPACER, Bumper Mounting	2
74	569694	MOULDING, Door Glass — Lower	10 ft.	102	619018	WASHER, Latch Strike Attaching	4
75	———	§GLASS PATTERN, Door Glass — Lower (See 106)	—	103	23C-416	BOLT, Latch Strike Attaching	4
76	66G-1008	SCREW, Door Lock to Door	8	104	17E-10	LKWSHR, Bumper to Strike Attaching	2
				105	12D-10	NUT, Bumper to Strike Attaching	2
				106	945999	†GLASS PATTERN KIT (Inc. 2, 31, 33, 35, 37, 71, 75 & 92)	1

§Not Sold Separately

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



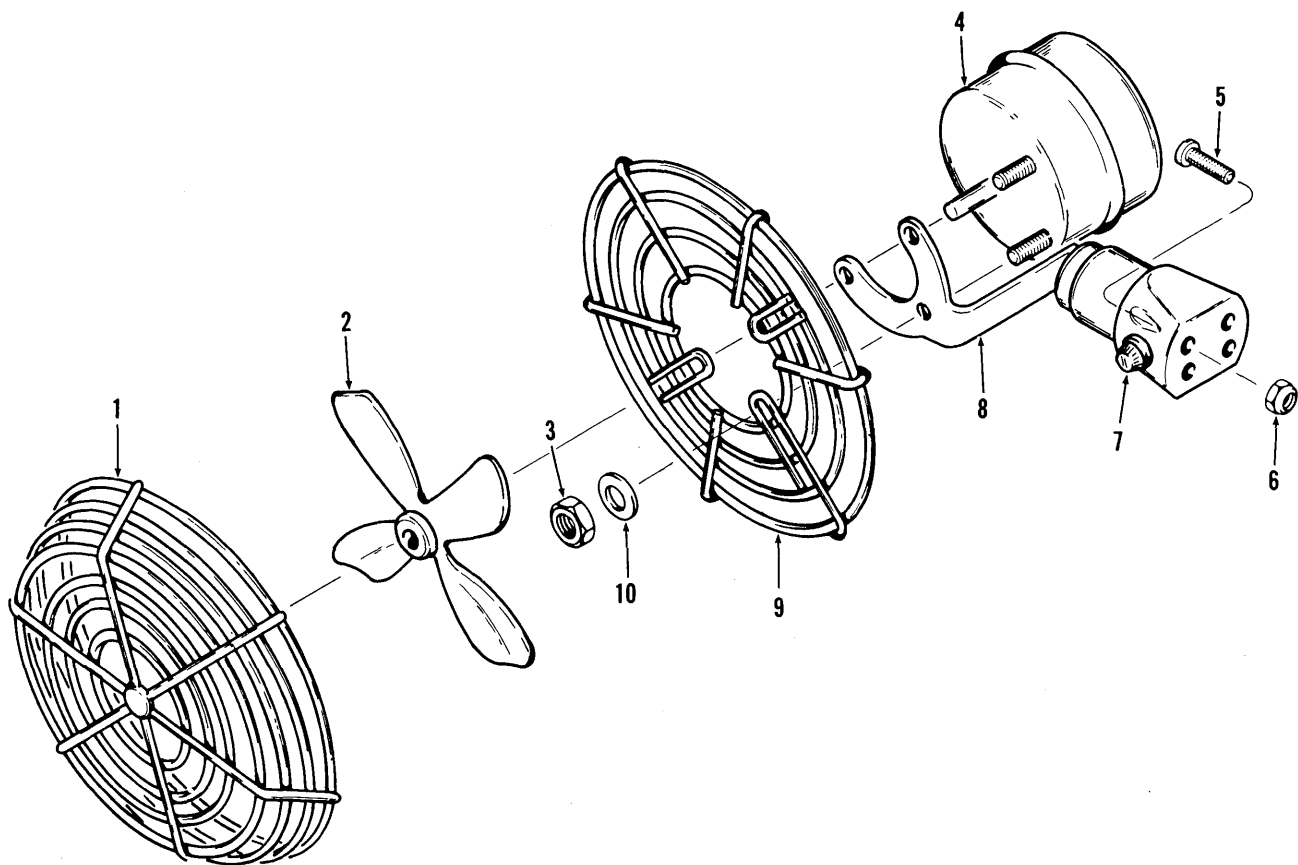
TS-11040

CANOPY ROLL BAR

No. Item	No. Part	Description	No. Req'd.
A	1549193	CANOPY ROLL BAR (Inc. 1-10)	1
1	1513826	MOUNT, Canopy	2
2	1F-1236	PIN, Cotter	2
3	1516040	PIN, Brace to Frame	2
4	1547680	BRACE, Canopy	2
5	1F-1236	PIN, Cotter	2
6	1516040	PIN, Brace to Canopy	2
7	1547690	CANOPY	1
8	1537424	PIN, Canopy to Frame	2
9	1F-1236	PIN, Cotter	2
10	1527745	†SEAT BELT KIT	1

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

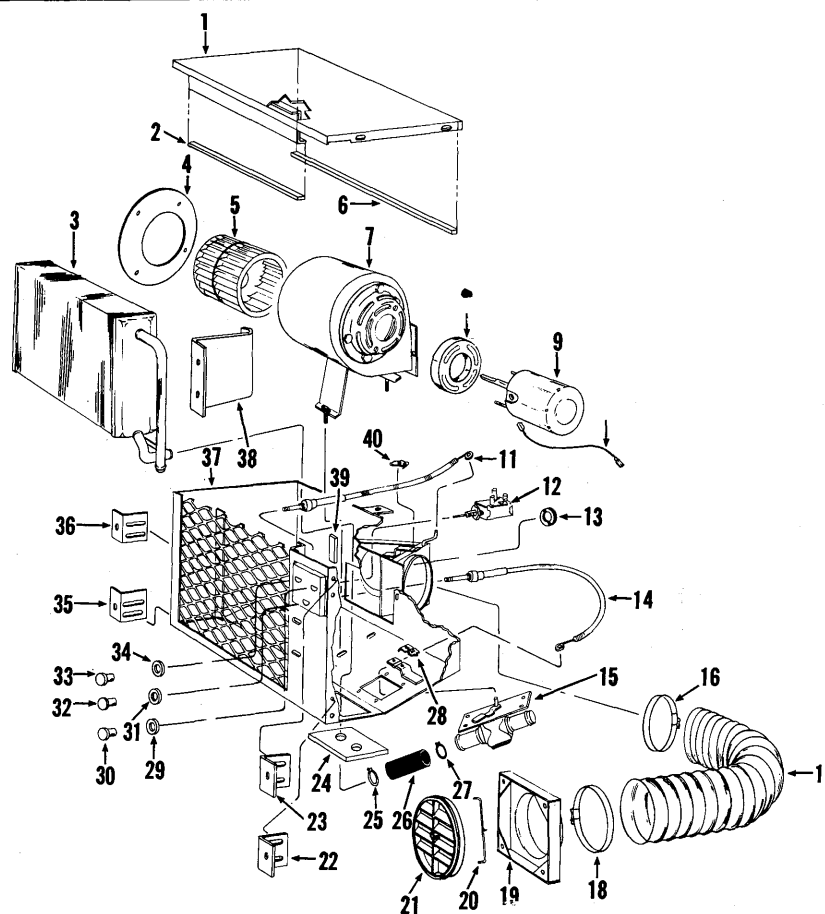


TS-10893

DEFROSTER FAN ASSEMBLY

Item No.	Part No.	Description	No. Req'd.
A	517847	FAN ASSY, Defroster (Inc. 1 thru 4, 7 thru 10)	1
1	949036	GUARD, Fan — Front	1
2	949037	FAN, Defroster	1
3	949054	NUT, Base to Motor	2
4	949033	MOTOR ASSY	1
5	85G-1012	SCREW, Fan to Cab	4
6	50D-10	NUT, Fan to Cab	4
7	949080	SWITCH	1
8	949034	BASE, Fan	1
9	949039	GUARD, Fan — Rear	1
10	664419	WASHER, Base to Motor	2

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

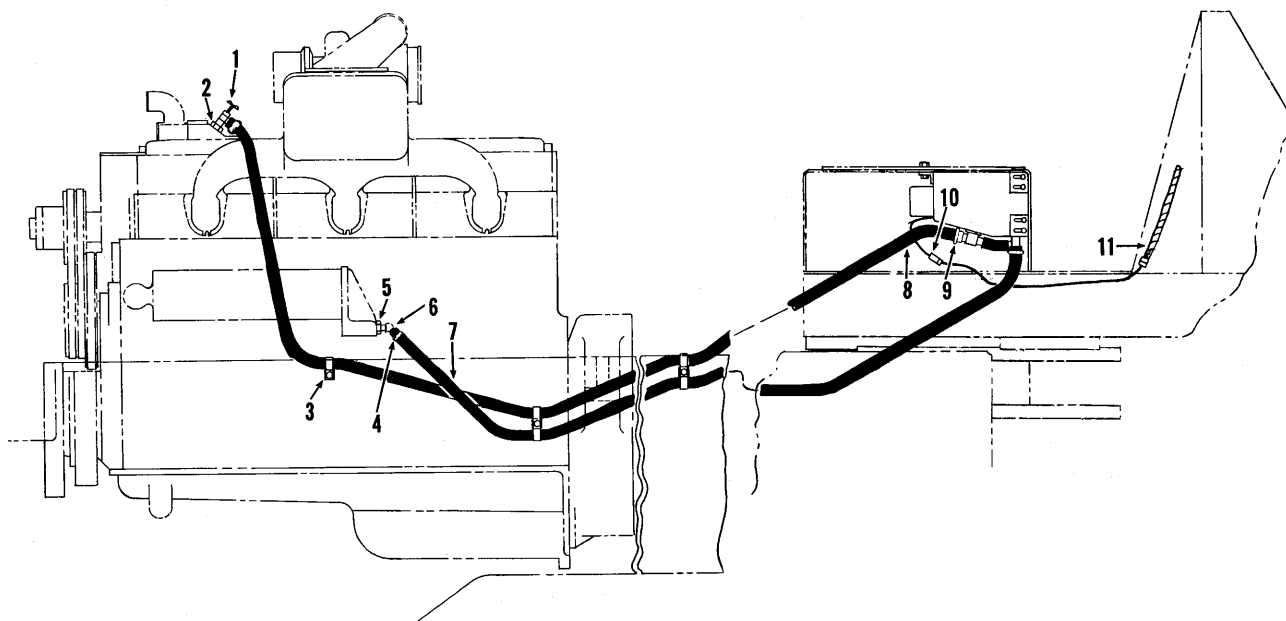


TS-11654 B

HEATER ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1510661	HEATER ASSY, 24V. (Inc. 1 thru 40)	1	20	947993	SPRING, Retainer	1
B	948958	BLOWER ASSY, 24V. (Inc. 4 thru 9)	1	21	947992	LOUVER, Plastic	1
1	947977	COVER, Core	1	22	947990	BRACKET, Mounting	1
2	949047	SPONGE SEAL, Cover	1	23	947990	BRACKET, Mounting	1
3	947948	CORE, Heater	1	24	947991	GASKET, Core Tube	1
4	949521	PLATE, Blower	1	25	949048	CLAMP, Hose	1
5	948992	WHEEL, Blower	1	26	889269	HOSE	1
6	947997	SEAL, Cover	1	27	949048	CLAMP, Hose	1
7	949522	HOUSING, Blower	1	28	947984	CLIP, Cable	1
8	947978	FOIL, Blower	1	29	947989	NUT, Fan	1
9	948978	MOTOR, Blower	1	30	947988	KNOB, Fan	1
10	947999	WIRE	1	31	947989	NUT, Temperature	1
11	947981	CABLE, Outlet	1	32	947987	KNOB, Temperature	1
12	947949	SWITCH, Fan Motor	1	33	947986	KNOB, Heat	1
13	947982	GROMMET	1	34	947989	NUT, Heat	1
14	947983	CABLE, Valve	1	35	947990	BRACKET, Mounting	1
15	947950	VALVE, Water	1	36	947990	BRACKET, Mounting	1
16	528651	CLAMP	1	37	947985	CASE	1
17	947995	HOSE, Flex	1	38	947976	RETAINER, Core	1
18	528651	CLAMP	1	39	949047	SPONGE, Seal	1
19	947994	COLLAR ASSY	1	40	947984	CLIP, Cable	1

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



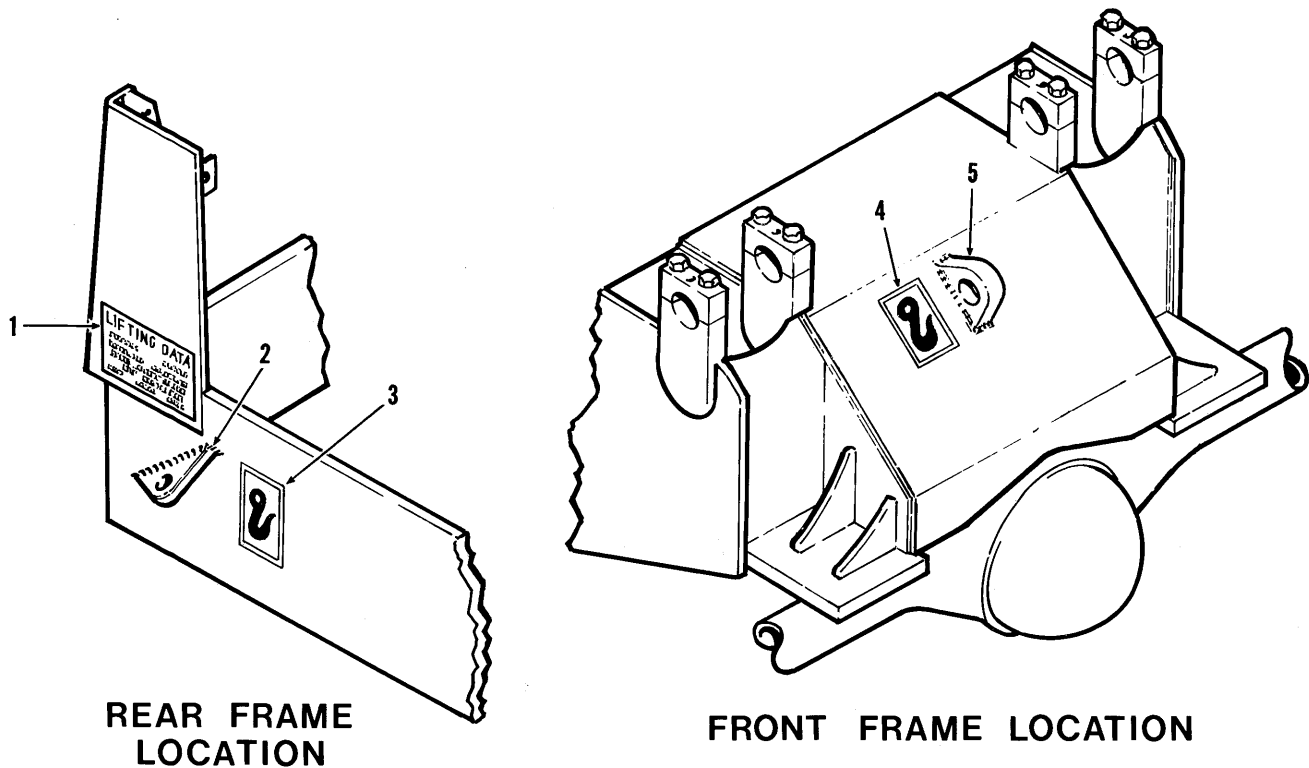
TS-11655 B

HEATER — INSTALLATION

Item No.	Part No.	Description	No. Req'd.
1	552433	VALVE, Heater Shutoff	1
2	356618	BUSHING, Reducer	1
3	30H-50	CLIP, Hose Mounting	5
4	521874	CLAMP, Hose	2
5	356617	BUSHING, Reducing	1
6	666854	NIPPLE	1
7	1529688	‡HOSE, Engine to Heater	—
8	1529688	‡HOSE, Engine to Heater	—
9	521874	CLAMP, Hose	2
10	635583	FUSE — 15 Amp	1
11	1508863	WIRE ASSY (Inc. 10)	1

‡As Required

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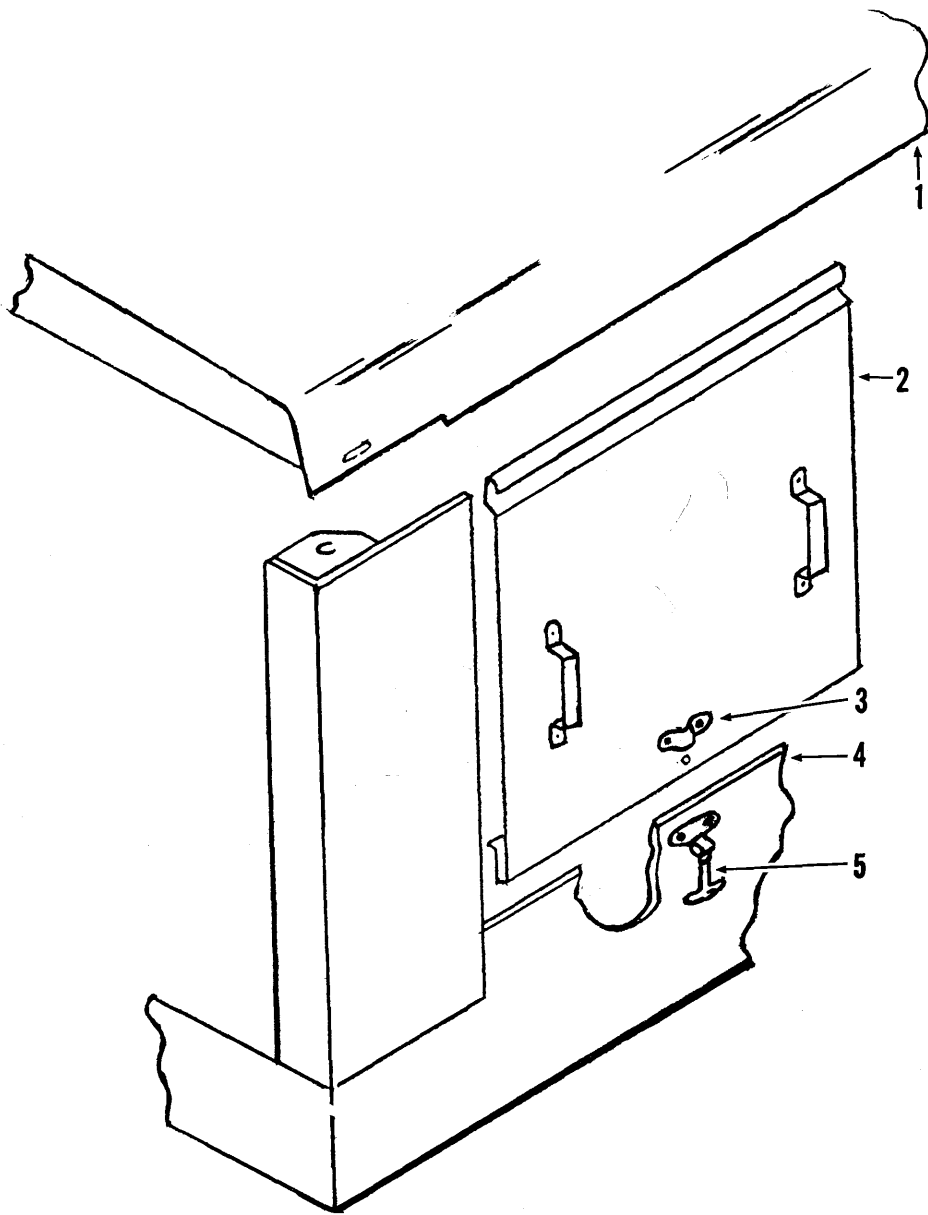


TS-11036

LIFTING LUGS & DECALS

Item No.	Part No.	Description	No. Req'd.
A	1510240	LIFTING LUG & DECAL KIT (Inc. 1 thru 5)	1
1	1547653	DECAL, Lifting Data — English	1
2	570614	LUG, Lifting — Rear	2
3	1511709	DECAL, Lift Symbol	2
4	1511709	DECAL, Lift Symbol	1
5	570614	LUG, Lifting — Front	1

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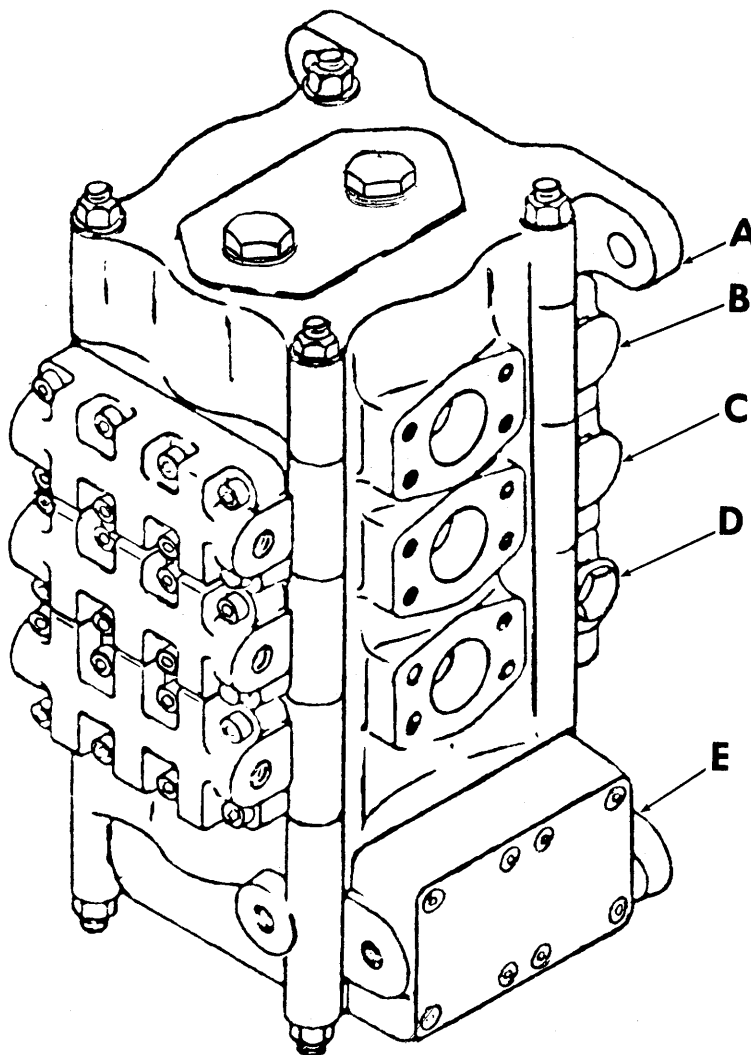
TS-11657

SIDE PANELS

Item No.	Part No.	Description	No. Req'd.
1	-----	HOOD — See Index	—
2	1514602	SIDE PANEL (Inc. 3, 3A)	6
3	1545623	KEEPER, Latch	6
3A	1H-306	†RIVET, Keeper	12
4	-----	FRAME — See Index	—
5	1545622	LATCH ASSY	6

†Not Illustrated

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



TS-10757

VALVE ASSEMBLY, MAIN, THREE SPOOL

No. Item	No. Part	Description	No. Req'd.
A	1513189	*CONTROL VALVE ASSY _____	1
		A §COVER SECTION	
		B OPTIONAL SECTION — See Page Z15	
		C BOOM SECTION — See Page Z16	
		D BUCKET SECTION — See Page Z17	
		E CONTROL SECTION — See Page Z18	
		F †RELIEF VALVE ASSY — See Page Z19	

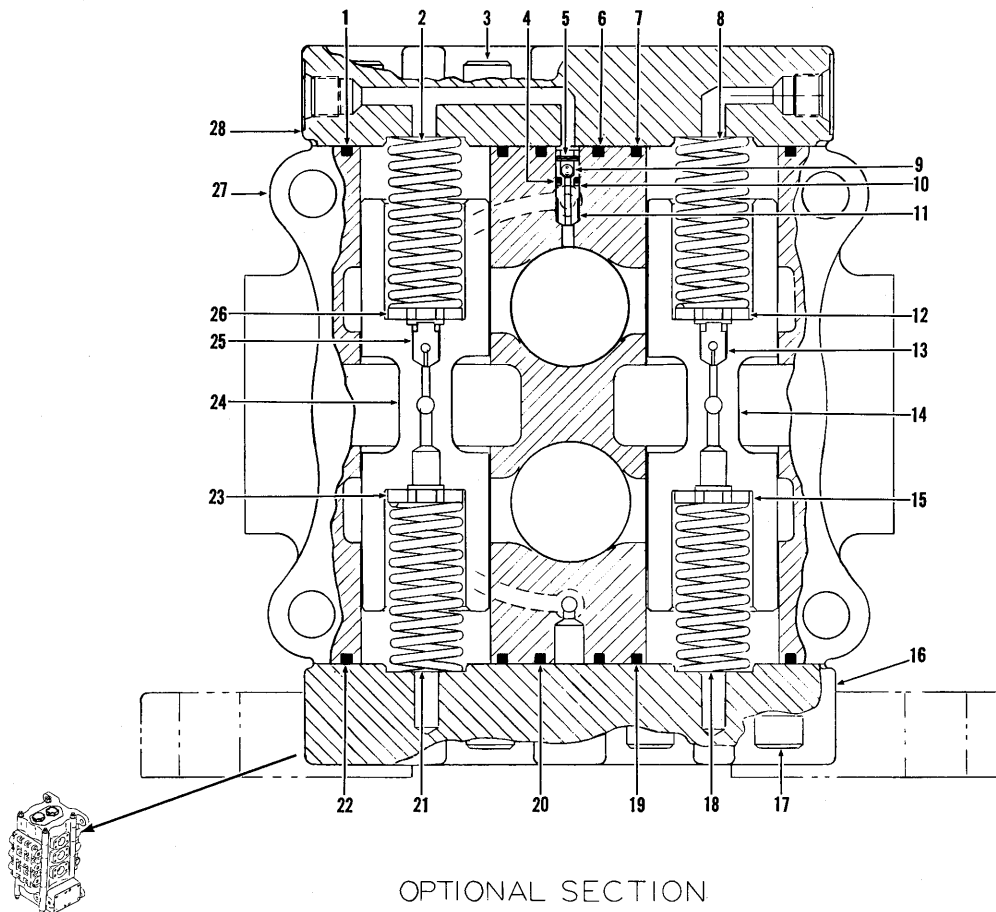
*While this valve assembly consists of separate sections, for use in manufacturing, held together with through bolts with nuts on each end, do NOT remove the through bolts or separate the sections of the valve. Also the torque on the through bolts is not to be disturbed. Disregarding these instructions can and will cause difficulties necessitating replacement of complete valve assembly. Control Valve Assy under above designation includes all items on pages Z15 thru Z19.

For purpose of identification, illustration above indicates by alphabetical designation the individual section group location in control valve. Code to alphabetical designation also appears in heading of each section covered in parts listing herein.

†Not Illustrated

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OPTIONAL SECTION

TS-10749

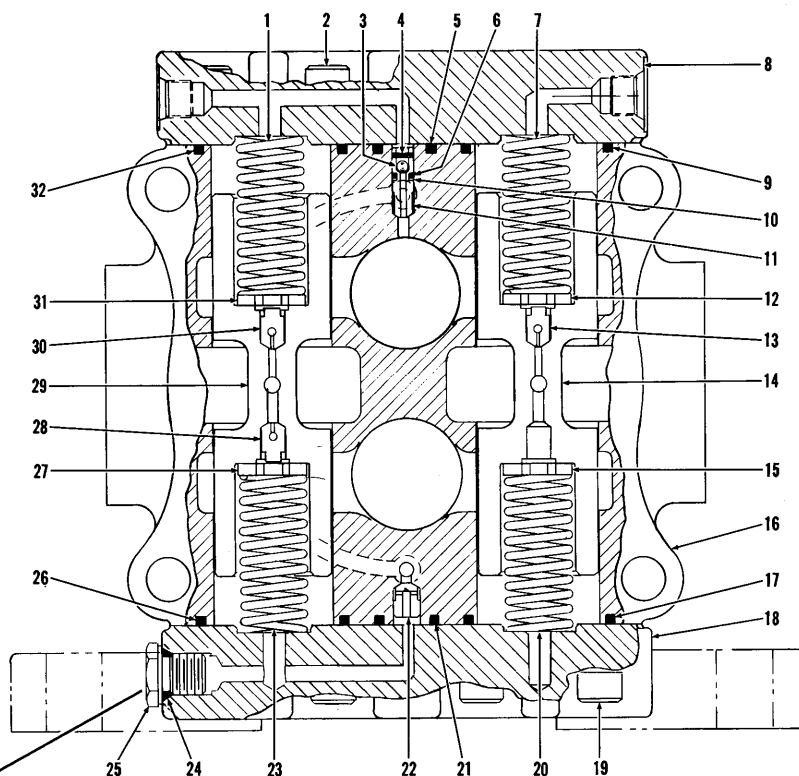
VALVE ASSEMBLY — MAIN — SECTION B — OPTIONAL

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	25K-40200	O-RING, Cover to Housing	1	16	948861	COVER, Plunger	1
2	948818	SPRING, Plunger	1	17	11G-828	BOLT, Cover to Housing	8
3	11G-828	BOLT, Cover to Housing	8	18	948818	SPRING, Plunger	1
4	948057	O-RING, Poppet	1	19	25K-40200	O-RING, Cover to Housing	1
5	—	SPIN, Poppet — See "11"	—	20	25K-30022	O-RING, Cover to Housing	1
6	25K-30022	O-RING, Cover to Housing	1	21	948818	SPRING, Plunger	1
7	25K-40200	O-RING, Cover to Housing	1	22	25K-40200	O-RING, Cover to Housing	1
8	948818	SPRING, Plunger	1	23	948846	WASHER	1
9	—	SBALL, Poppet — See "11"	—	24	—	SPRUNGER — See "A" Page Z14	—
10	948794	RING, Back-Up	1	25	948060	CHECK — White (.063 Orifice Size 52 Drill)	1
11	945194	POPPET ASSY (Inc. 4, 5, 9, 10)	1	26	948846	WASHER	1
12	948846	WASHER	1	27	—	SHOUSING — See "A" Page Z14	—
13	948060	CHECK, White (.063 Orifice Size 52 Drill)	1	28	948817	COVER, Plunger	1
14	—	SPRUNGER — See "A" Page Z14	—	29	948847	†PLUG, Pipe	2
15	948846	WASHER	1	30	91F-3	†O-RING, Plug	2

†Not Illustrated

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BOOM SECTION

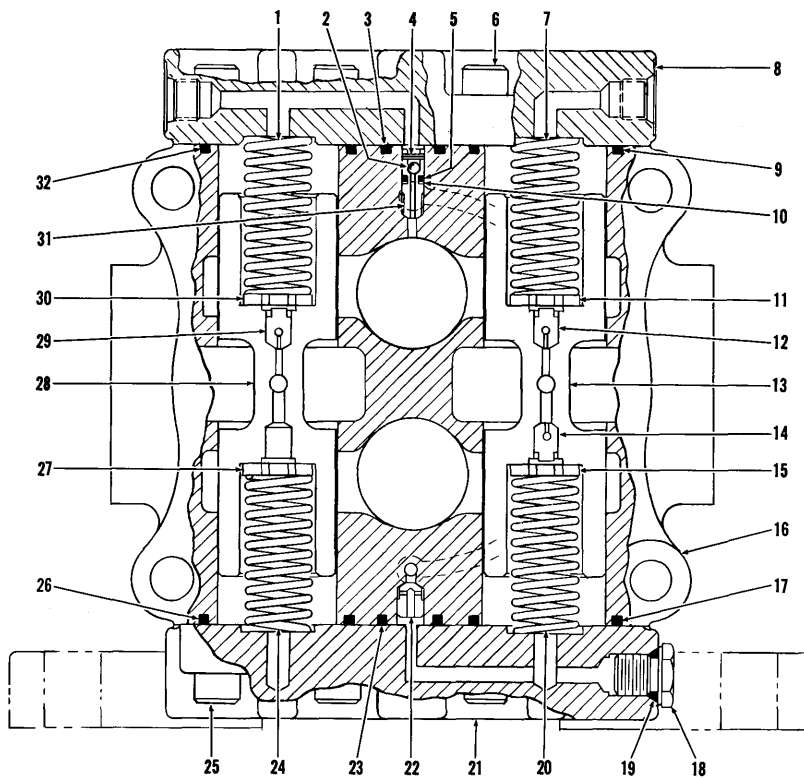
TS-10771

VALVE ASSEMBLY — MAIN — SECTION C — BOOM

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	948818	SPRING, Plunger	1	17	25K-40200	O-RING, Cover to Housing	1
2	11G-828	BOLT, Cover to Housing	8	18	948816	COVER, Plunger	1
3	—	§BALL, Poppet — See 11	—	19	11G-828	BOLT, Cover to Housing	8
4	—	§PIN, Poppet — See 11	—	20	948818	SPRING, Plunger	1
5	25K-30022	O-RING, Cover to Housing	1	21	25K-30022	O-RING, Cover to Housing	1
6	948057	O-RING, Poppet	1	22	948051	CHECK	1
7	948818	SPRING, Plunger	1	23	948818	SPRING, Plunger	1
8	948817	COVER, Plunger	1	24	91F-6	O-RING, Plug	1
9	25K-40200	O-RING, Cover to Housing	1	25	948058	PLUG, Pipe	1
10	948794	RING, Back-Up	1	26	25K-40200	O-RING, Cover to Housing	1
11	945194	POPPET ASSY (Inc. 3, 4, 6, 10)	1	27	948846	WASHER	1
12	948846	WASHER	1	28	948789	CHECK, Red (.110 Orifice Size 35 Drill)	1
13	948789	CHECK, Red (.110 Orifice Size 35 Drill)	1	29	—	§PLUNGER — See "A" Page Z14	—
14	—	§PLUNGER — See "A" Page Z14	—	30	948060	CHECK, White (.063 Orifice Size 52 Drill)	1
15	948846	WASHER	1	31	948846	WASHER	1
16	—	§HOUSING — See "A" Page Z14	—	32	25K-40200	O-RING, Cover to Housing	1

§Not Sold Separately

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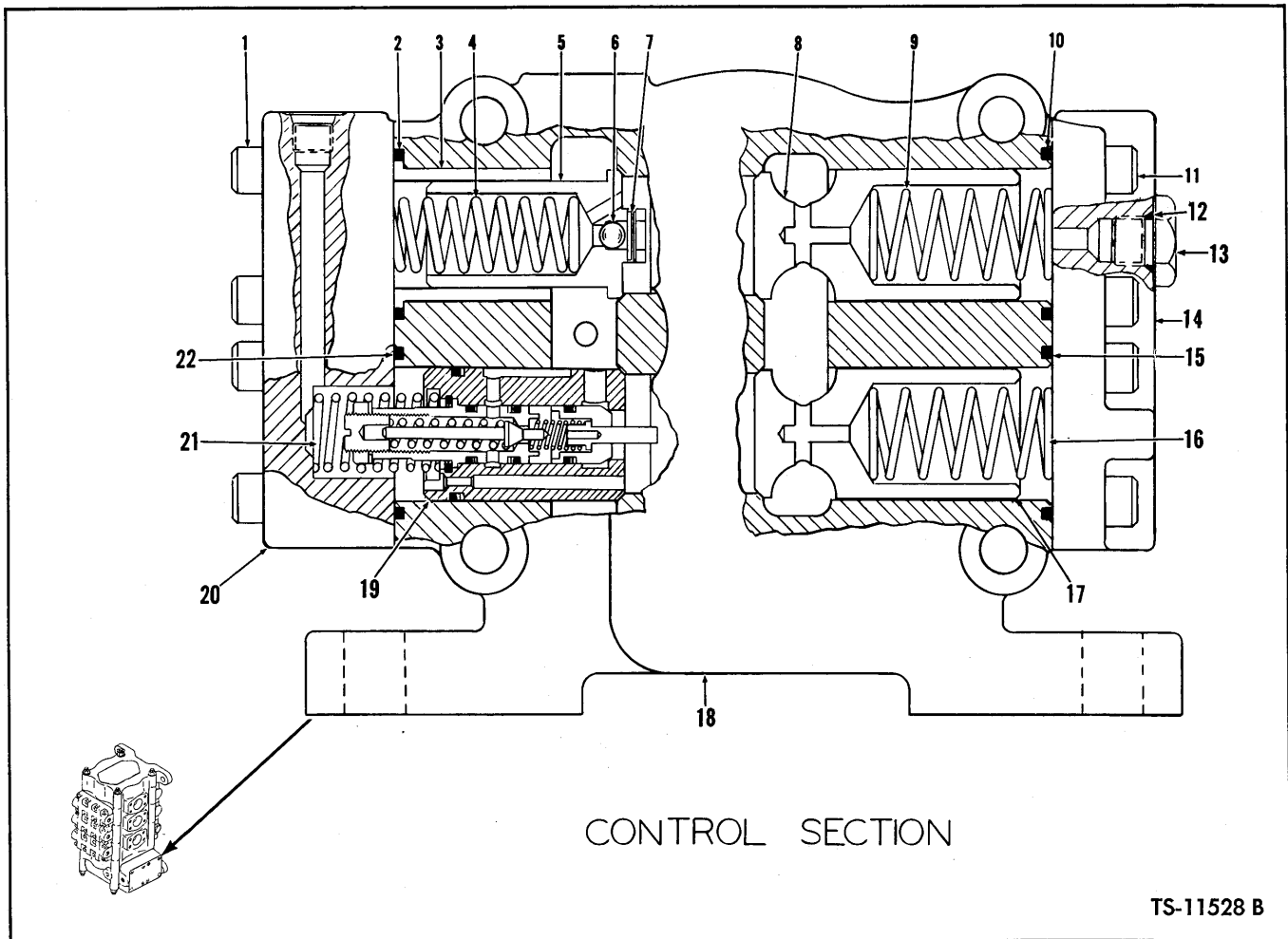
TS-10772

VALVE ASSEMBLY — MAIN — SECTION D — BUCKET

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	948818	SPRING, Plunger	1	17	25K-40200	O-RING, Cover to Housing	1
2	—	§BALL, Poppet — See 31	—	18	948058	PLUG, Pipe	1
3	25K-30022	O-RING, Cover to Housing	1	19	91F-6	O-RING, Plug	1
4	—	§PIN, Poppet — See 31	—	20	948818	SPRING, Plunger	1
5	948057	O-RING, Poppet	1	21	948816	COVER, Plunger	1
6	11G-828	BOLT, Cover to Housing	8	22	948051	CHECK	1
7	948818	SPRING, Plunger	1	23	25K-30022	O-RING, Cover to Housing	1
8	948817	COVER, Plunger	1	24	948818	SPRING, Plunger	1
9	25K-40200	O-RING, Cover to Housing	1	25	11G-828	BOLT, Cover to Housing	8
10	948794	RING, Back-Up	1	26	25K-40200	O-RING, Cover to Housing	1
11	948846	WASHER	1	27	948846	WASHER	1
12	948060	CHECK, White (.063 Orifice — Size 52 Drill)	1	28	—	§PLUNGER — See "A" Page Z14	—
13	—	§PLUNGER — See "A" Page Z14	—	29	948060	CHECK, White (.063 Orifice — Size 52 Drill)	1
14	948054	CHECK, Green (.093 Orifice — Size 42 Drill)	1	30	948846	WASHER	1
15	948846	WASHER	1	31	945194	POPPET ASSY (Inc. 2, 4, 5, 10)	1
16	—	§HOUSING — See "A" Page Z14	—	32	25K-40200	O-RING, Cover to Housing	1

§Not Sold Separately

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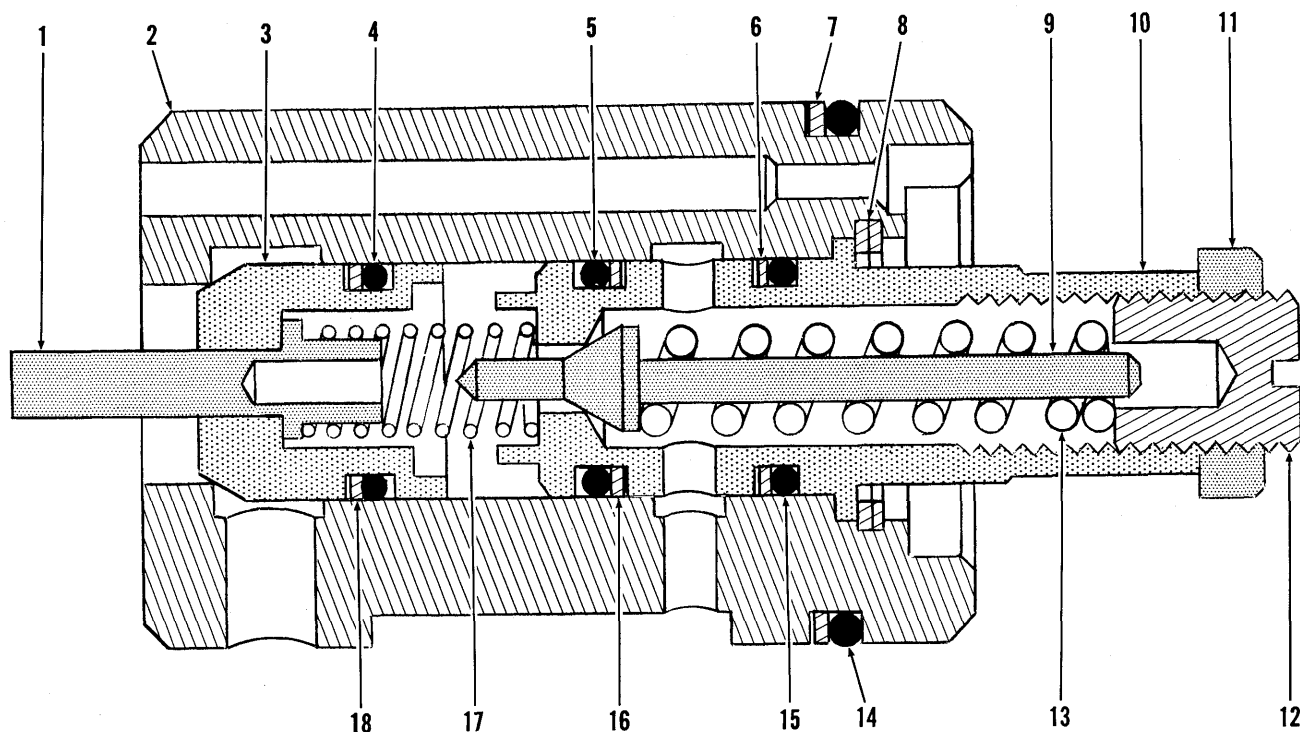


VALVE ASSEMBLY — MAIN — SECTION E — CONTROL

Item No.	Part No.	Description	Req'd.
1	11G-828	BOLT, Cover to Housing	8
2	25K-40200	O-RING, Cover to Housing	1
3	—	§SLEEVE, Poppet — See 5	—
4	948814	SPRING, Poppet	1
5	948859	POPPET ASSY (Inc. 3, 6, 7)	1
6	—	§BALL, Poppet — See 5	—
7	—	§PIN, Poppet — See 5	—
8	948821	POPPET	1
9	948823	SPRING, Poppet	1
10	25K-40200	O-RING, Cover to Housing	1
11	11G-828	BOLT, Cover to Housing	8
12	91F-8	O-RING, Plug	1
13	949309	PLUG	1
14	949298	COVER, Plunger	1
15	25K-40200	O-RING, Cover to Housing	1
16	948823	SPRING, Poppet	1
17	948821	POPPET	1
18	—	§HOUSING — See "A" Page Z14	—
19	—	RELIEF VALVE ASSY — See Page Z19	—
20	948820	COVER, Plunger	1
21	948815	SPRING	1
22	25K-40200	O-RING, Cover to Housing	1

§Not Sold Separately

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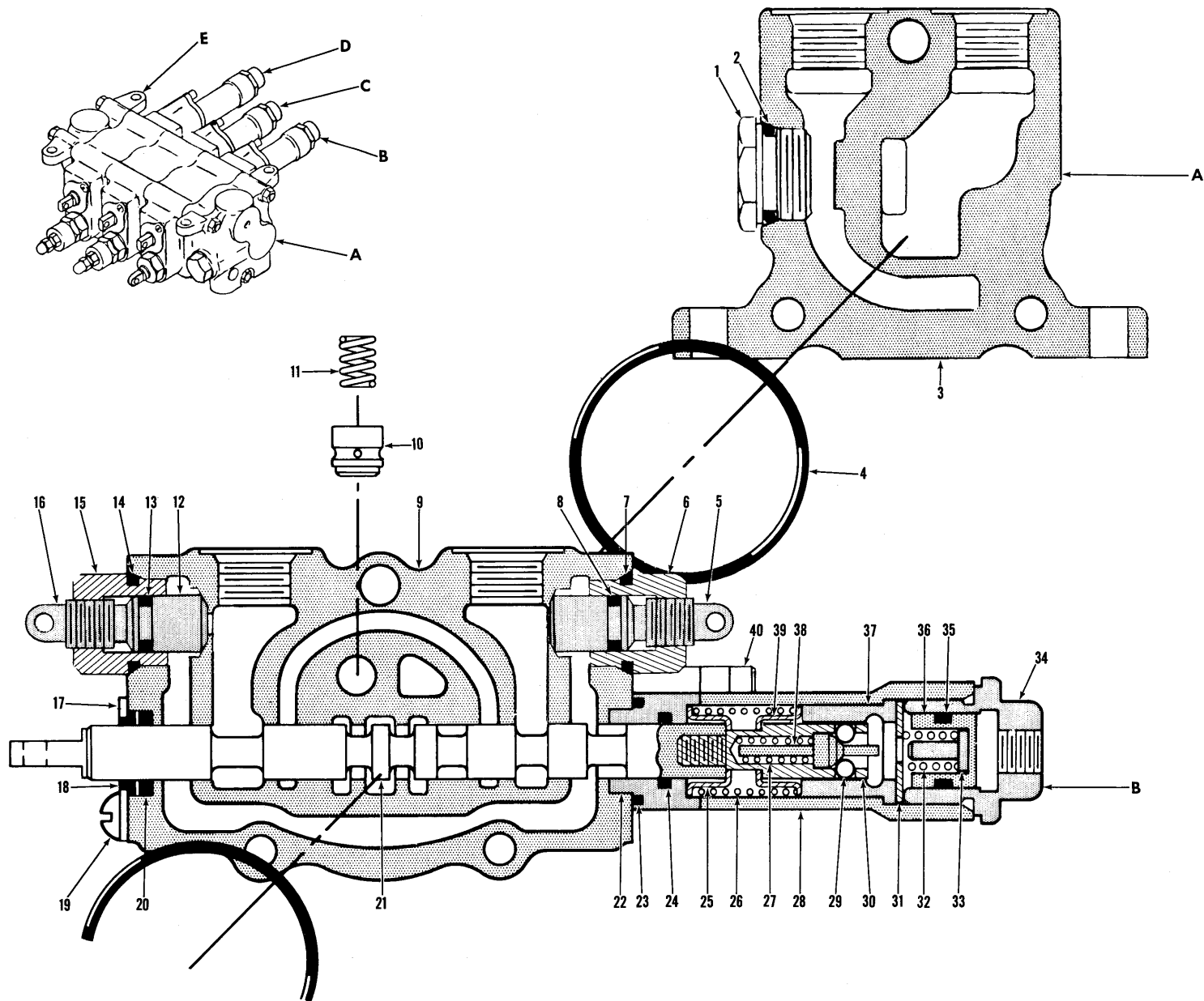
TS-10636

RELIEF VALVE ASSEMBLY

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	948854	RELIEF VALVE ASSY (Inc. 1 thru 18)	1	9	-----	§POPPET — See Item A	—
1	948824	PISTON	1	10	-----	§PLUG — See Item A	—
2	-----	§POPPET — See Item A	—	11	8D-06	NUT, Jam	1
3	-----	§POPPET — See Item A	—	12	948848	SCREW, Adjusting	1
4	948063	O-RING, Poppet	1	13	948825	SPRING, Poppet	1
5	948063	O-RING, Plug	1	14	948851	O-RING, Poppet	1
6	948849	RING, Plug Back-Up	1	15	948063	O-RING, Plug	1
7	948852	RING, Poppet Back-Up	1	16	948849	RING, Plug Back-Up	1
8	948850	RING, Snap	2	17	948129	SPRING, Piston	1
				18	948849	RING, Poppet Back-Up	1

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE ASSEMBLY — THREE SPOOL — PILOT
INLET, OUTLET & OPTIONAL SECTION — A & B

TS-10823

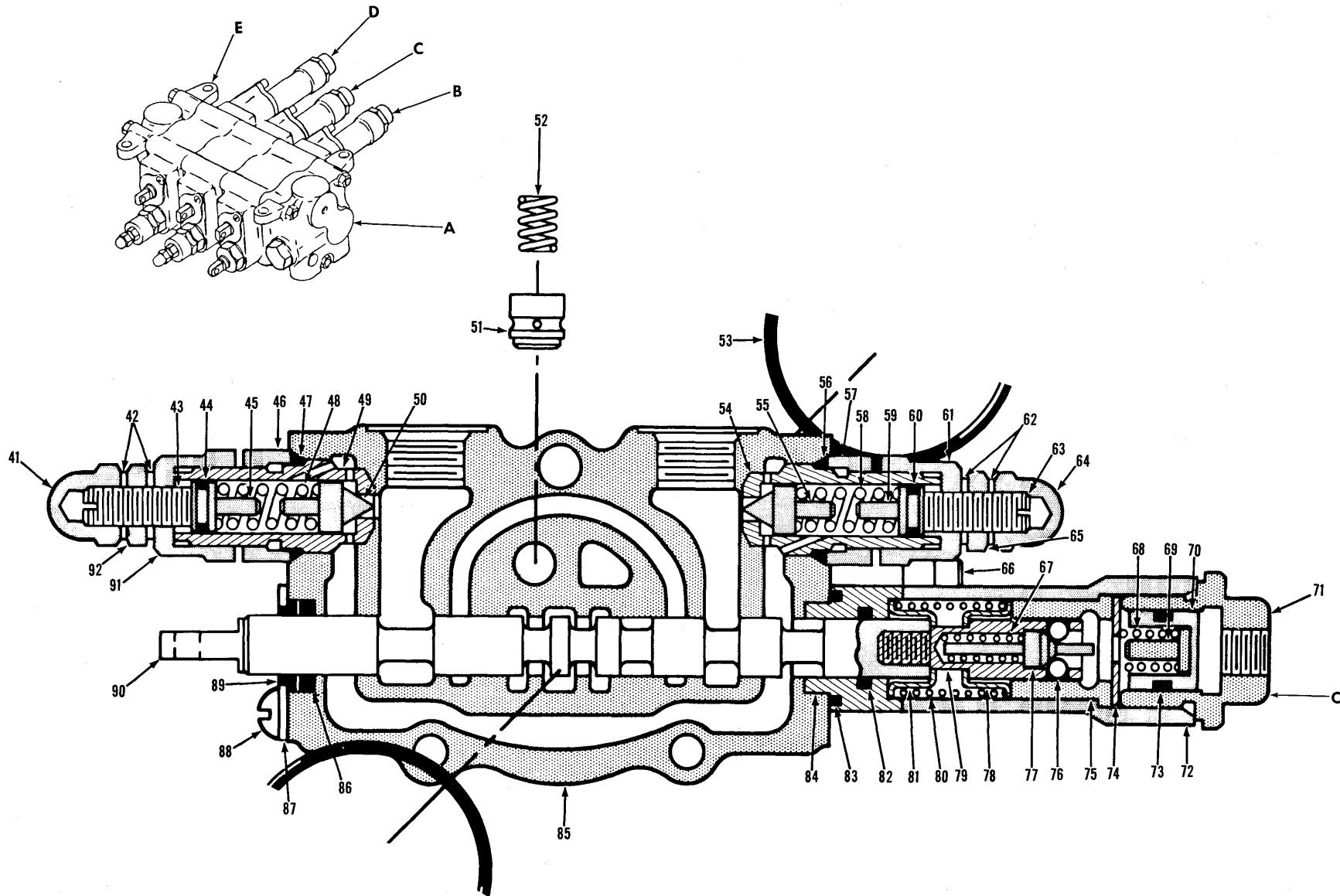
VALVE ASSEMBLY — THREE SPOOL — PILOT INLET, OUTLET & OPTIONAL SECTION — A & B

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1549423	CONTROL VALVE ASSY (Inc. 1 thru 150)	1	19	71G-406	SCREW, Plate to Housing	2
B	948979	PLUNGER SECTION ASSY (Inc. 9, 17 thru 41, 53)	1	20	25K-30018	O-RING, Plunger Oil	1
1	948810	PLUG, Inlet Section	1	21	-----	§PLUNGER, Operating — See "A" or "B"	—
2	91F-7	O-RING, Plug	1	22	948982	SPACER, Cover to Housing	1
3	948805	INLET & OUTLET SECTION ASSY (Inc. 1, 2, 4)	1	23	25K-30024	O-RING, Spacer to Housing	1
4	25K-40108	O-RING, Valve Section to Valve Section	1	24	25K-30018	O-RING, Plunger Oil	1
5	-----	§POPPET — See Item 6	—	25	948017	SEAT, Spring	1
6	945193	VALVE, Shut-Off (Inc. 5, 7, 8)	1	26	948018	SPRING, Plunger Return	1
7	91F-7	O-RING, Valve	1	27	948020	SPRING, Detent	1
8	-----	§O-RING, Poppet — See Item 6	—	28	948980	CAP, Plunger	1
9	-----	§HOUSING, Plunger Section — See "A" or "B"	—	29	877420	BALL, Detent	4
10	948015	POPPET	1	30	948019	SEAT, Detent	1
11	948022	SPRING, Poppet	1	31	948030	SPACER, Detent	1
12	-----	§POPPET — See 15	—	32	948026	SPRING, Piston	1
13	-----	§O-RING, Poppet	—	33	948025	PIN, Detent	1
14	91F-7	O-RING, Valve	1	34	948028	PLUG, Detent	1
15	945193	VALVE, Shut-Off (Inc. 12, 13, 14, 16) ..	1	35	25K-30018	O-RING, Piston	1
16	-----	§POPPET — See 15	—	36	948024	PISTON, Detent	1
17	948016	PLATE, Wiper & Seal Retainer	1	37	948023	SLEEVE, Detent	1
18	948021	WIPER, Plunger Oil	1	38	948029	CAM, Detent	1
				39	948017	SEAT, Spring	1
				40	948032	BOLT, Cap to Housing	2

§Not Sold Separately

NOTES

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE ASSEMBLY — THREE SPOOL — PILOT
BUCKET SECTION — C

TS-10783

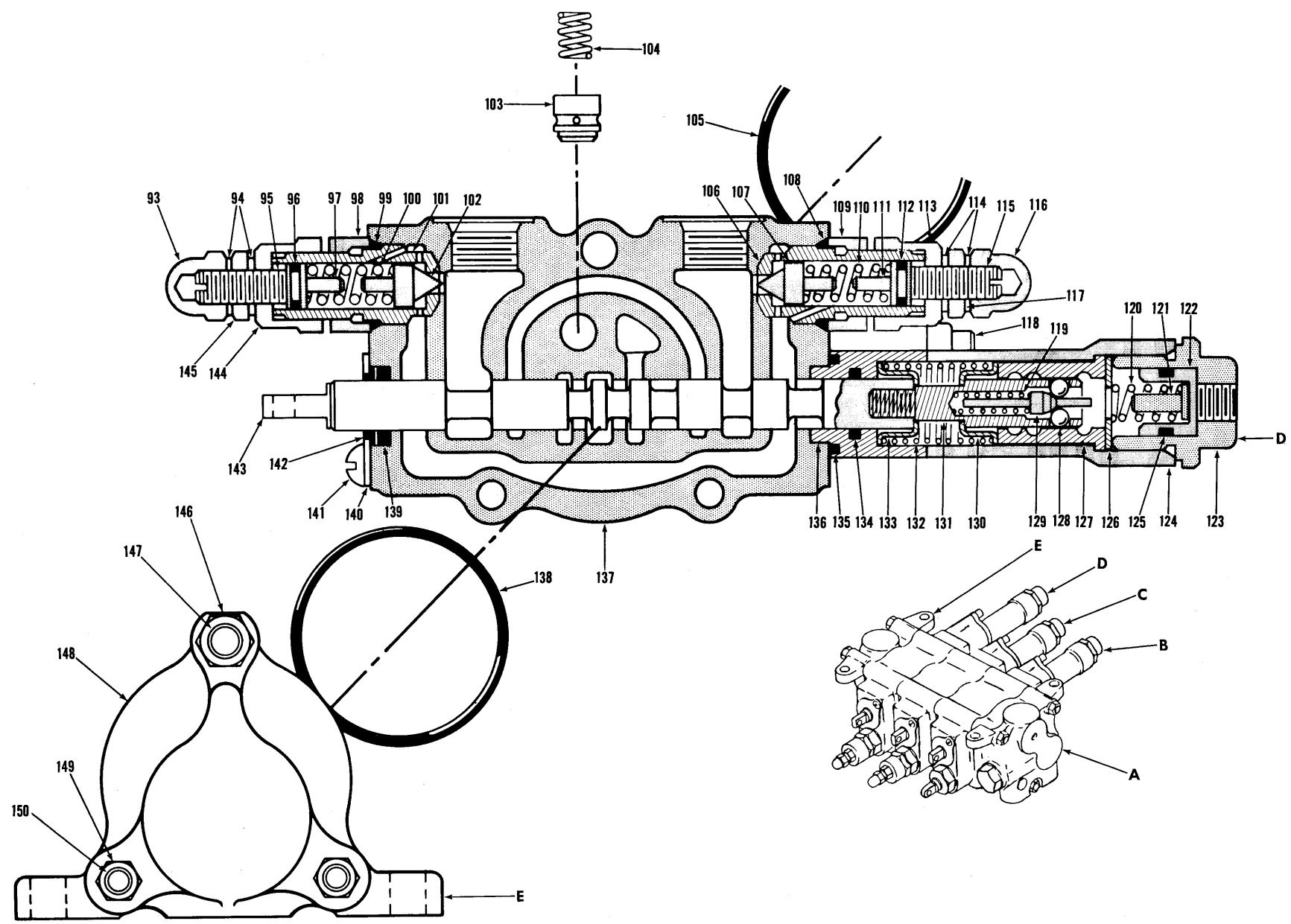
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VALVE ASSEMBLY — THREE SPOOL — PILOT (Continued) **BUCKET SECTION — C**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	948979	PLUNGER SECTION ASSY (Inc. 51, 52, 66 thru 90, 105)	1	64	-----	§NUT, Acorn — See "C"	—
B	1545915	RELIEF VALVE ASSY (Inc. 41 thru 50, 91, 92)	1	65	-----	§NUT, Jam — See "C"	—
C	1545916	RELIEF VALVE ASSY (Inc. 54, 55 thru 65)	1	66	948032	BOLT, Cap to Housing	2
41	-----	§NUT, Acorn — See "B"	—	67	948020	SPRING, Detent	1
42	-----	§WASHER, Jam — See "B"	—	68	948026	SPRING, Piston	1
43	-----	§SCREW, Adjusting — See "B"	—	69	948025	PIN, Detent	1
44	-----	§O-RING, Guide — See "B"	—	70	948024	PISTON, Detent	1
45	-----	§GUIDE, Spring — See "B"	—	71	948028	PLUG, Detent	1
46	-----	§CAP, Relief Valve — See "B"	—	72	948980	CAP, Plunger	1
47	91F-7	O-RING, Relief Valve	1	73	25K-30018	O-RING, Piston	1
48	-----	§SPRING, Poppet — See "B"	—	74	948030	SPACER, Detent	1
49	-----	§SEAT, Poppet — See "B"	—	75	948023	SLEEVE, Detent	1
50	-----	§POPPET, Relief Valve — See "B"	—	76	877420	BALL, Detent	4
51	948015	POPPET	1	77	948029	CAM, Detent	1
52	948022	SPRING, Poppet	1	78	948017	SEAT, Spring	1
53	25K-40108	O-RING, Valve Section to Valve Section	1	79	948019	SEAT, Detent	1
54	-----	§SEAT, Poppet — See "C"	—	80	948018	SPRING, Plunger Return	1
55	-----	§POPPET, Relief Valve — See "C"	—	81	948017	SEAT, Spring	1
56	91F-7	O-RING, Relief Valve	1	82	25K-30018	O-RING, Plunger Oil	1
57	-----	§CAP, Relief Valve — See "C"	—	83	25K-30024	O-RING, Spacer to Housing	1
58	-----	§SPRING, Poppet — See "C"	—	84	948982	SPACER, Cover	1
59	-----	§GUIDE, Spring — See "C"	—	85	-----	§HOUSING, Plunger Section — See "A"	—
60	-----	§O-RING, Spring Guide — See "C"	—	86	25K-30018	O-RING, Plunger	1
61	-----	§CAP, Relief Valve — See "C"	—	87	948016	PLATE, Wiper and Seal Retainer	1
62	-----	§WASHER, Jam — See "C"	—	88	71G-406	SCREW, Plate to Housing	2
63	-----	§SCREW, Adjusting — See "C"	—	89	948021	WIPER, Plunger Oil	1
				90	-----	§PLUNGER, Operating — See "A"	—
				91	-----	§CAP, Relief Valve — See "B"	—
				92	-----	§NUT, Jam — See "B"	—

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE ASSEMBLY — THREE SPOOL — PILOT
BOOM & COVER END SECTION — D & E

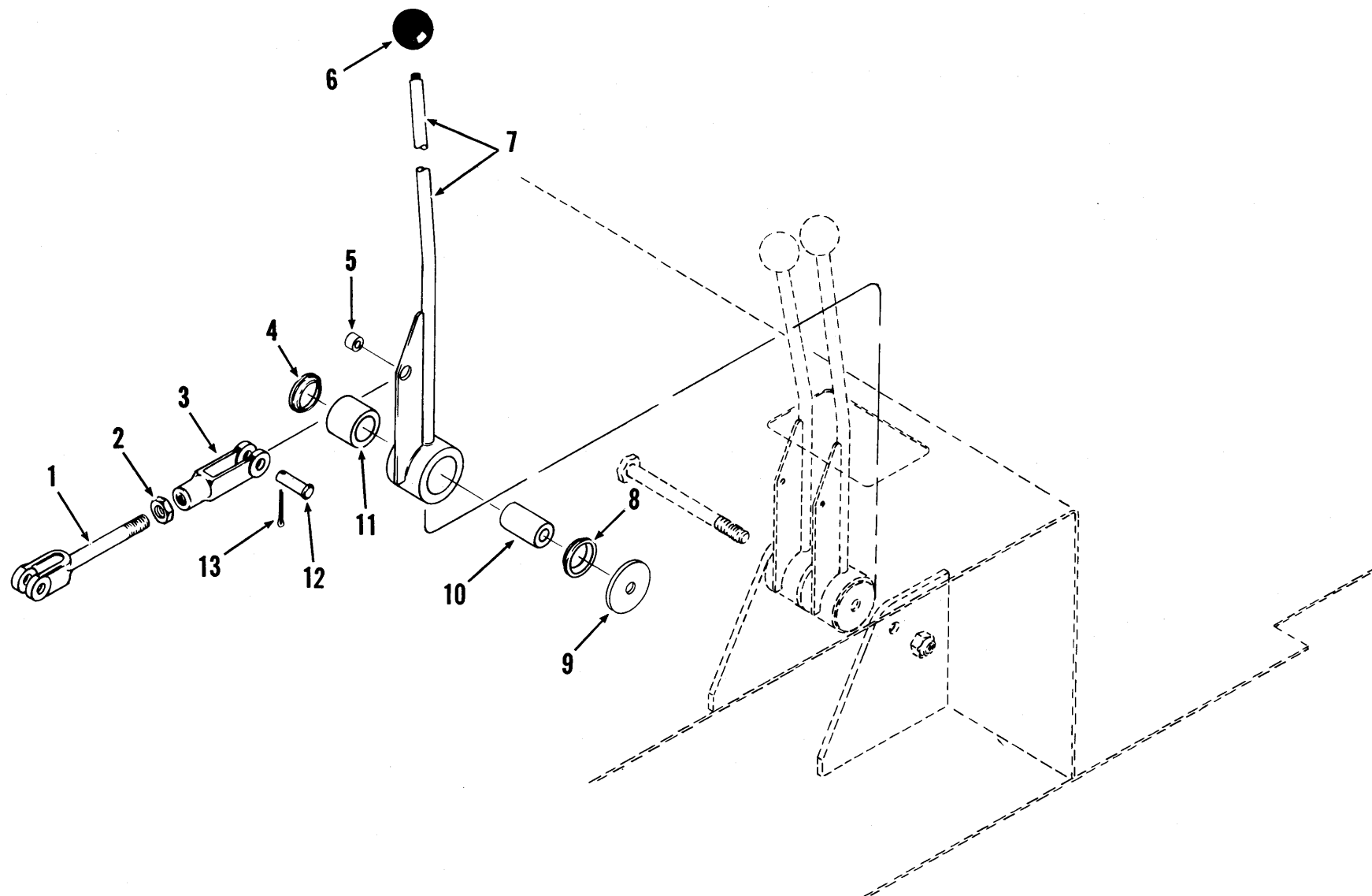
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VALVE ASSEMBLY — THREE SPOOL — PILOT (Continued) **BOOM & COVER END SECTION — D & E**

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	948903	PLUNGER SECTION ASSY (Inc. 103, 104, 118 thru 143)	1	120	948026	SPRING, Piston	1
B	1545915	RELIEF VALVE ASSY (Inc. 93 thru 102, 144, 145)	1	121	948025	PIN, Detent	1
C	1545916	RELIEF VALVE ASSY (Inc. 106, 107, 108 thru 117)	1	122	948024	PISTON, Detent	1
93	-----	§NUT, Acorn — See "B"	—	123	948028	PLUG, Detent	1
94	-----	§WASHER, Jam Nut — See "B"	—	124	948980	CAP, Plunger	1
95	-----	§SCREW, Adjusting — See "B"	—	125	25K-30018	O-RING, Piston	1
96	-----	§O-RING, Guide — See "B"	—	126	948030	SPACER, Detent	1
97	-----	§GUIDE, Spring — See "B"	—	127	948034	SLEEVE, Detent	1
98	-----	§CAP, Relief Valve — See "B"	—	128	877420	BALL, Detent	4
99	91F-7	O-RING, Relief Valve	1	129	948029	CAM, Detent	1
100	-----	§SPRING, Poppet — See "B"	—	130	948017	SEAT, Spring	1
101	-----	§SEAT, Poppet — See "B"	—	131	948033	PIN, Detent	1
102	-----	§POPPET, Relief Valve — See "B"	—	132	948018	SPRING, Plunger Return	1
103	948015	POPPET	1	133	948017	SEAT, Spring	1
104	948022	SPRING, Poppet	1	134	25K-30018	O-RING, Plunger Oil	1
105	25K-40108	O-RING, Valve Section to Valve Section	1	135	25K-30024	O-RING, Spacer to Housing	1
106	-----	§SEAT, Poppet — See "C"	—	136	948981	SPACER, Cover	1
107	-----	§POPPET, Relief Valve — See "C"	—	137	-----	§HOUSING, Plunger Section — See "A"	—
108	91F-7	O-RING, Relief Valve	1	138	25K-40108	O-RING, Valve Section to Valve Section	1
109	-----	§CAP, Relief Valve — See "C"	—	139	25K-30018	O-RING, Plunger Oil	1
110	-----	§SPRING, Poppet — See "C"	—	140	948016	PLATE, Wiper & Seal Retainer	1
111	-----	§GUIDE, Spring — See "C"	—	141	71G-406	SCREW, Plate to Housing	2
112	-----	§O-RING, Spring Guide — See "C"	—	142	948021	WIPER, Plunger Oil	1
113	-----	§CAP, Relief Valve — See "C"	—	143	-----	§PLUNGER, Operating — See "A"	—
114	-----	§WASHER, Jam — See "C"	—	144	-----	§CAP, Relief Valve — See "B"	—
115	-----	§SCREW, Adjusting — See "C"	—	145	-----	§NUT, Jam — See "B"	—
116	-----	§NUT, Acorn — See "C"	—	146	62D-06	NUT, Tie Rod	2
117	-----	§NUT, Jam — See "C"	—	147	948188	TIE ROD	1
118	11G-428	BOLT, Cap to Housing	2	148	948010	COVER, Valve End	1
119	948020	SPRING, Detent	1	149	1D-06	NUT, Tie Rod	4
				150	948187	TIE ROD	2

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE CONTROLS — THREE SPOOL

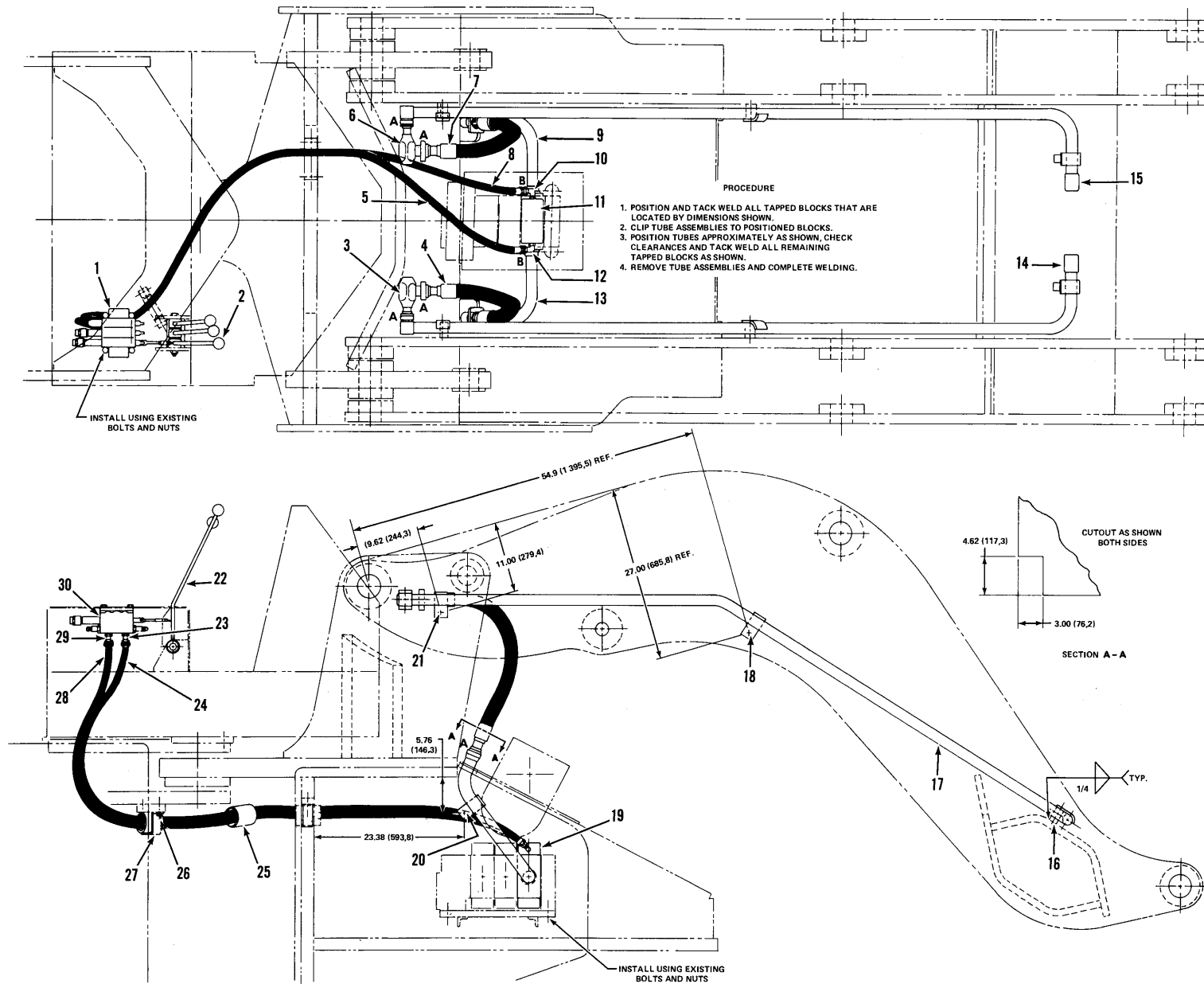
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VALVE CONTROLS – THREE SPOOL

Item No.	Part No.	Description	No. Req'd.
1	1537881	ROD ASSY (Inc. 2, 3)	1
2	8D-04	NUT, Clevis Jam	1
3	2J-4200	CLEVIS, Valve Rod	1
4	1522535	WIPER RING	1
5	1542764	BUSHING, Lever	1
6	509772	KNOB	1
7	1542911	LEVER ASSY, Valve (Inc. 11)	1
8	1522535	WIPER RING	1
9	584502	WASHER, Valve Lever	1
10	1503251	SLEEVE, Valve Lever	1
11	675227	BEARING, Valve Lever	1
12	4F-04051	PIN, Clevis	2
13	1F-207	COTTER, Clevis Pin	2

NOTES

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



VALVE INSTALLATION & PARTS — THREE SPOOL

TS-10646

* DICHTSATZ VALVE INSTALLATION & PARTS — THREE SPOOL

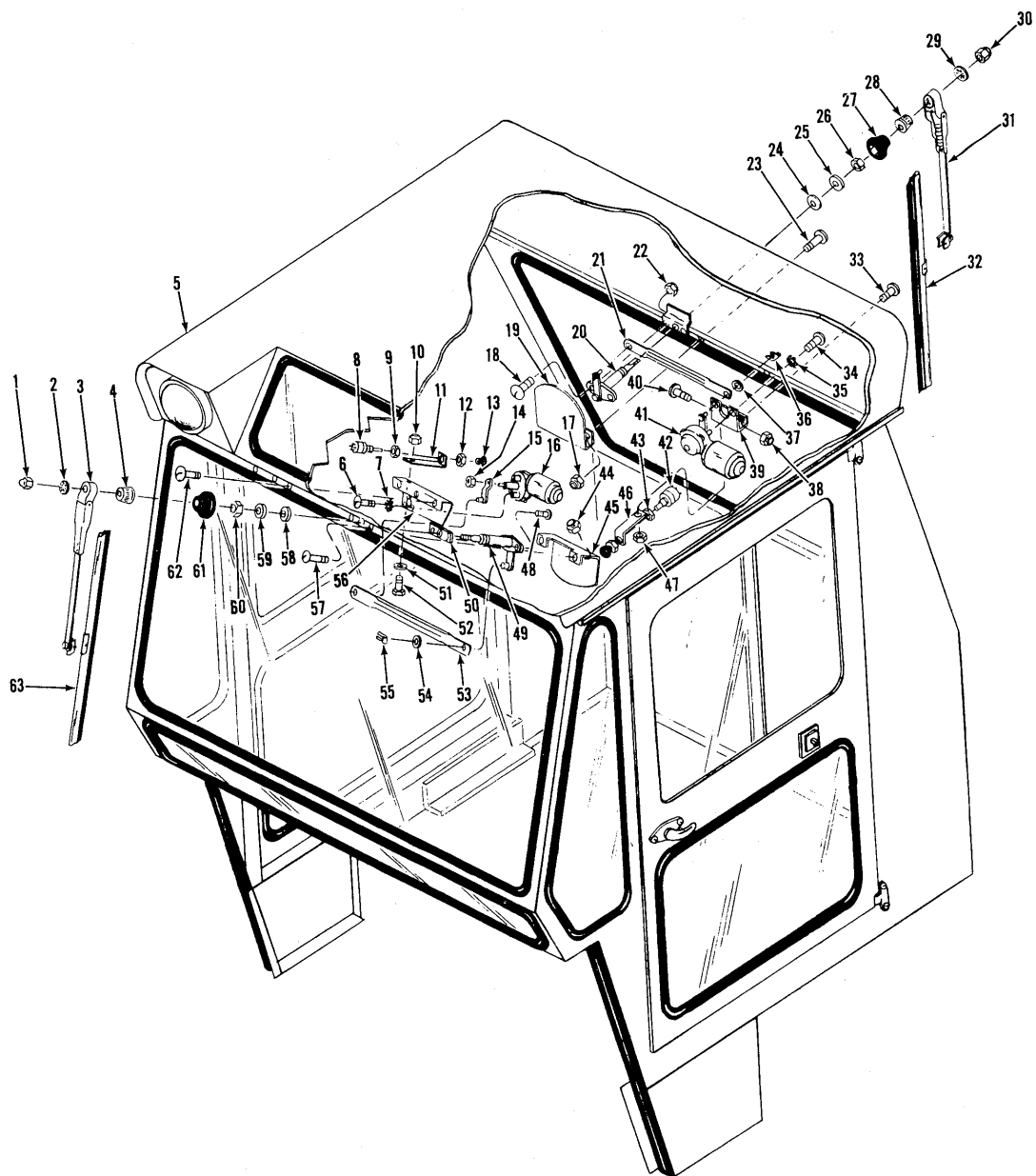
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Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
1	-----	CONTROL VALVE — Pilot — See Index	—	17	-----	TUBE — R.H., Boom — See Item 14	—
2	-----	THREE SPOOL VALVE CONTROLS — See Index	—	18	1508914	TAPPED BLOCK, Weld to Boom	2
3	1509065	SWIVEL JOINT, Boom Tube to Hose	1	18A	24C-820	†BOLT, Tube Mounting	2
3A	-----	†FLANGE HALF, Swivel Joint to Tube and to Hose — See Group "A"	—	18B	4E-08	†LKWSHR, Tube Mounting	2
4	1540139	HOSE, Swivel Joint to Tube	1	18C	619029	†WASHER, Tube Mounting	2
4A	-----	†FLANGE HALF, Hose to Swivel Joint and Hose to Tube — See Group "A"	—	19	-----	CONTROL VALVE — Main — See Item 11	—
5	1538812	HOSE, Pilot Valve to Main Valve	1	20	1538623	RECTANGULAR FLAT	2
6	1509065	SWIVEL JOINT, Boom Tube to Hose	1	20A	24C-824	†BOLT, Tube Mounting	2
6A	-----	†FLANGE HALF, Swivel Joint to Tube and to Hose — See Group "A"	—	20B	4E-08	†LKWSHR, Tube Mounting	2
7	1540139	HOSE, Swivel Joint to Tube	1	20C	619029	†WASHER, Tube Mounting	4
7A	-----	†FLANGE HALF, Hose to Swivel Joint and Hose to Tube — See Group "A"	—	20D	18D-08	†NUT, Tube Mounting	2
8	1538812	HOSE, Pilot Valve to Main Valve	1	21	1508914	TAPPED BLOCK, Weld to Boom	2
9	1546683	TUBE — L.H. — Hose to Main Valve	1	21A	24C-820	†BOLT, Tube Mounting	2
9A	-----	†FLANGE HALF, Tube to Main Valve — See Group "B"	—	21B	4E-08	†LKWSHR, Tube Mounting	2
10	17K-6	ELBOW, Hose to Main Valve (Inc. 10A)	1	21C	619029	†WASHER, Tube Mounting	2
10A	91F-6	†O-RING, Elbow to Valve	1	22	-----	THREE SPOOL VALVE CONTROLS — See Item 2	—
11	-----	CONTROL VALVE — Main — See Index	—	23	18K-6	CONNECTOR, Valve to Hose (Inc. 23A)	1
12	17K-6	ELBOW, Hose to Main Valve (Inc. 12A)	1	23A	91F-6	†O-RING, Connector to Valve	1
12A	91F-6	†O-RING, Elbow to Valve	1	24	-----	HOSE, Pilot Valve to Main Valve — See Item 5	—
13	1546681	TUBE — R.H. — Hose to Main Valve	1	25	1M-24040	HOSE, Hose Guard	3
13A	-----	†FLANGE HALF, Tube to Main Valve — See Group "B"	—	26	24C-820	BOLT, Clamp Mounting	4
14	1546688	TUBE — R.H. — Boom	1	26A	4E-08	†LKWSHR, Clamp Mounting	4
15	1546687	TUBE — L.H. — Boom	1	27	1537987	CLAMP, Hose to Frame	2
16	1508914	TAPPED BLOCK, Weld to Boom	2	28	-----	HOSE, Pilot Valve to Main Valve — See Item 8	—
16A	24C-820	†BOLT, Tube Mounting	2	29	18K-6	CONNECTOR, Valve to Hose (Inc. 29A)	1
16B	4E-08	†LKWSHR, Tube Mounting	2	29A	91F-6	†O-RING, Connector to Valve	1
16C	619029	†WASHER, Tube Mounting	2	30	-----	CONTROL VALVE — Pilot — See Item 1	—

†Not Illustrated

GROUP	FLANGE HALF	O-RING	BOLT	LKWSHR	SIZE
No. Req'd. Per Connection	2	1	4	4	
A	663094	1306623	23C-724	4E-07	1¼"
B	1511520	1306624	23C-824	4E-08	1½"

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE



WINDSHIELD WIPER KITS — FRONT & REAR — OPTIONAL

TS-10933

WINDSHIELD WIPER KITS — FRONT & REAR — OPTIONAL

Item No.	Part No.	Description	No. Req'd.	Item No.	Part No.	Description	No. Req'd.
A	1534343	WINDSHIELD WIPER KIT, Front (Inc. 1 thru 4, 6 thru 16, 44, 45, 48 thru 63)	1	32	568968	BLADE, Wiper	1
B	568970	WINDSHIELD WIPER KIT, Rear (Inc. 17 thru 43, 46, 47)	1	33	24C-412	BOLT, Bracket to Cab	2
1	522028	NUT, Acorn	1	34	992896	SCREW, Motor Mounting (Inc. 35)	3
2	9E-05	LKWSHR, Arm Attaching	1	35	———	§LKWSHR, Screw — See 34	3
3	560517	ARM, Wiper	1	36	890374	CLIP, Link Connecting	2
4	949184	DRIVER, Splined	1	37	890375	WASHER, Spacing	2
5	———	CAB — See Index	—	38	18D-04	NUT, Bracket to Cab	2
6	992896	SCREW, Motor Mounting (Inc. 7)	3	39	992892	BRACKET, Motor	1
7	———	§LKWSHR, Screw — See 6	3	40	24C-412	BOLT, Bracket to Bracket	1
8	891308	SWITCH, Wiper (Inc. 9, 12, 13)	1	41	1573054	MOTOR, Wiper — Rear (Inc. 20, 34, 35)	1
9	———	§NUT, Switch — See 8	1	42	891308	SWITCH, Wiper (Inc. 43)	1
10	18D-04	NUT, Bracket to Bracket	2	43	———	§NUT, Switch — See 42	1
11	546535	BRACKET, Switch Mounting	1	44	18D-04	NUT, Shield Mounting	1
12	———	§NUT, Switch — See 8	1	45	1534346	SHIELD, Shaft	1
13	———	§KNOB, Switch — See 8	1	46	546535	BRACKET, Switch	1
14	949144	NUT, Lever to Switch	1	47	18D-08	NUT, Bracket to Bracket	1
15	992891	LEVER, Drive	1	48	949143	SCREW, Shaft Mounting	2
16	1573054	MOTOR, Wiper — Front (Inc. 6, 7, 49)	1	49	949185	SHAFT, Wiper Arm (Inc. 1, 2, 3, 4, 58 thru 61)	1
17	18D-04	NUT, Shield Mounting	2	50	1534345	SPACER, Shaft	1
18	949143	SCREW, Shaft Mounting	2	51	655629	WASHER, Bracket to Bracket	2
19	1534346	SHIELD, Wiper Shaft	1	52	24C-412	BOLT, Bracket to Bracket	2
20	949185	SHAFT, Wiper (Inc. 24 thru 28, 29, 30)	1	53	574729	LINK, Motor to Shaft	1
21	574729	LINK, Wiper to Shaft	1	54	890375	WASHER, Spacing	2
22	50D-10	NUT, Shaft Mounting	2	55	890374	CLIP, Link Connecting	2
23	24C-410	BOLT, Shield to Cab	2	56	992892	BRACKET, Motor Mounting	1
24	949180	WASHER, Fiber	1	57	90G-428	BOLT, Shield Mounting	2
25	949181	WASHER, Steel	1	58	949180	WASHER, Fiber	1
26	949182	NUT, Shaft Mounting	1	58A	713674	†SPACER, Shaft	1
27	949183	CAP, Nut	1	59	949181	WASHER, Steel	1
28	949184	DRIVER, Splined	1	60	949182	NUT, Shaft Mounting	1
29	9E-05	LKWSHR, Arm to Shaft	1	61	949183	CAP, Nut	1
30	522028	NUT, Acorn	1	62	24C-412	BOLT, Bracket to Cab	3
31	560517	ARM, Wiper	1	62A	8E-04	†LKWSHR, Bracket to Cab	3
				63	568968	BLADE, Wiper	1

†Not Illustrated

§Not Sold Separately

WHEN ORDERING PARTS, ALWAYS STATE MODEL AND SERIAL NO. OF MACHINE

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MICHIGAN

275B TRACTOR SHOVEL

OPERATORS MANUAL SUPPLEMENT

No. 2879-R1



SUBJECT: Revised Stall Speed Specifications.

This Supplement covers revised stall speed specifications for Model 275B Tractor Shovels equipped with Clark C-8502-11 Torque Converters effective on machines shipped from the factory with serial numbers:

425B106 & After
425B101 FSC & After
425B101 ENC & After



***Old Stall Speed Specification:** 1700-1800 RPM with transmission in FORWARD — 4th (HI) and bucket in full CLOSE position.

***New Stall Speed Specification:** 1950-2050 RPM with transmission in FORWARD — 4th (HI) and bucket in full CLOSE position.

***Note:** All stall speed checks should be made with converter oil at operating temperature, approximately 180°F. to 200°F. (82°C. to 94°C.) and hydraulic system oil 150°F. (65°C.) minimum. Stall RPM is applicable to altitude of 600 ft. (183 m.) and ambient temperature of 70°F. (21°C.). Contact engine manufacturer's distributor to determine the correction necessary for altitude and temperature in your application.



Use this Supplement with Operators Manual No. 2653-R1



CLARK EQUIPMENT COMPANY

MICHIGAN

275B TRACTOR SHOVEL

OPERATORS MANUAL SUPPLEMENT

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