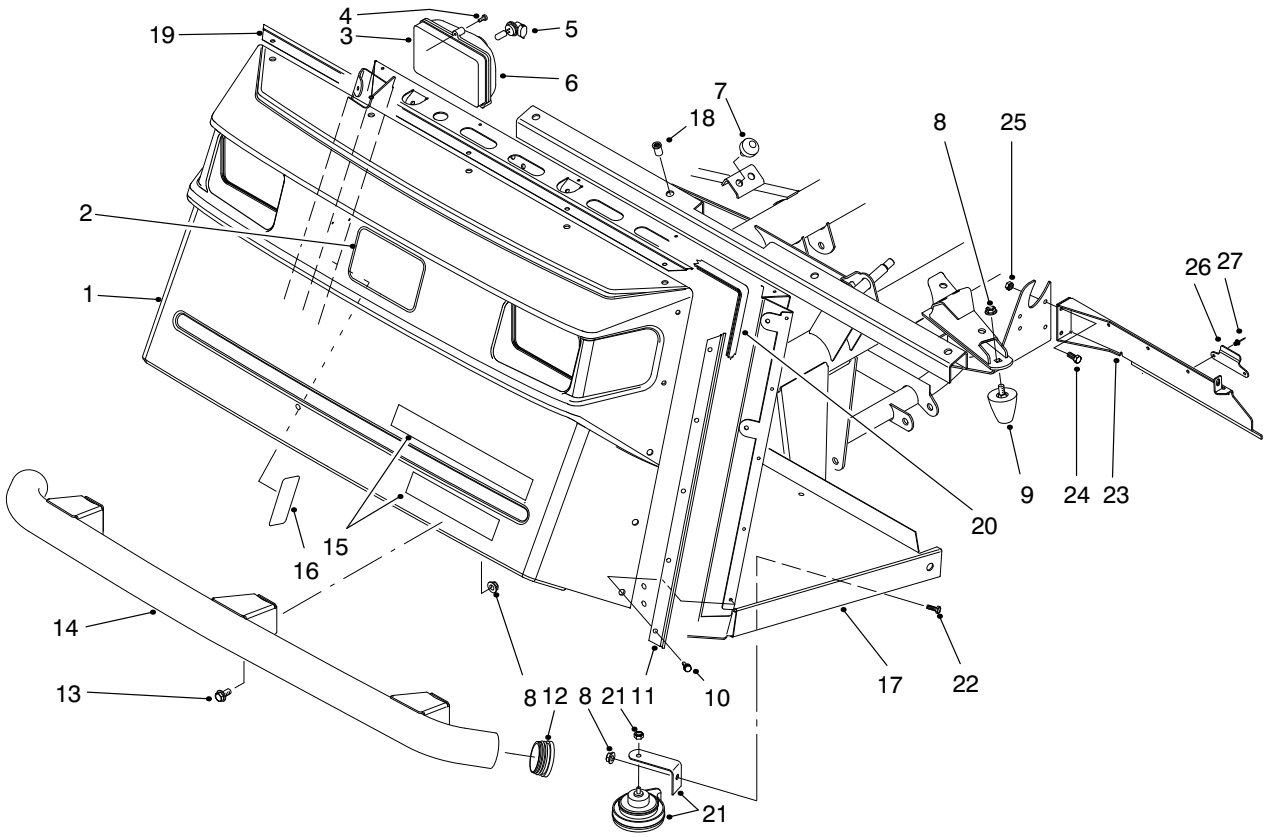
FORM NO. 3322–685

TORO®

MODEL NO. 07232–90001

PARTS CATALOG

WORKMAN® 3120



T–1581–1

FRONT BUMPER & HOOD ASM

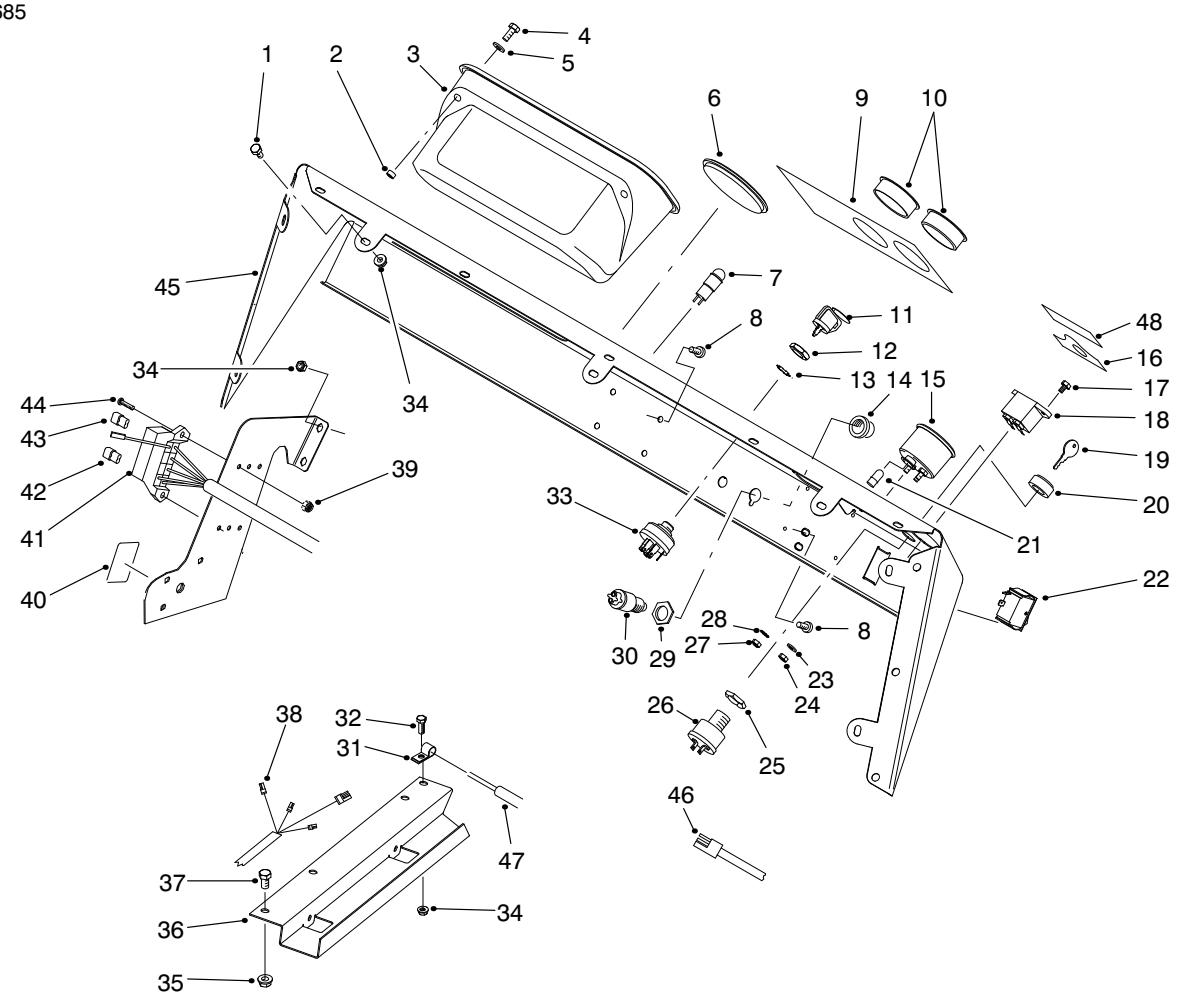
PROTOTYPE

Ref. No.	Part No.	Description	No. Used
1	98–2979	Hood–Yellow	1
2	62–5550	Decal–TORO	1
3	87–2120	Asm–Headlight (Incl. Ref. #5–6)	2
4	32104–88	Screw	6
5	87–6320	Bulb–Headlight	2
6	87–6330	Lens–Headlight	2
7	87–2440	Bumper	2
8	3290–357	Nut–HFH	8
9	26–0071	Bumper	2
10	87–6620	Screw	15
11	87-8120-03	Bracket–Trim Side	2
12	2410–42	Cap–Front Bumper	2
13	3234–1	Screw–HFH	6
14	87-4070-03	Bumper–Front	1
15	99–9435	Decal–Workman 3120	1
16	87–7000	Decal–Load	1
17	94–5240	Asm–Operators Platform (Incl. Ref. #18)	1
18	32148–7	Nut–Clinch	8
19	87-8130-03	Bracket–Trim Top	1
20	87–8160	Trim	1
21	116749	Asm–Horn	1
22	323–4	Screw–HH	1
23	94-3838-03	Bracket–Mudflap LH	1
*	94-3839-03	Bracket–Mudflap RH	1
24	321–4	Screw–HH	4
25	32128–33	Nut–HFH	4
26	100-4469-03	Bracket–Shroud	2
27	146489	Rivet	4

*Not Illustrated

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TPS



T−1729

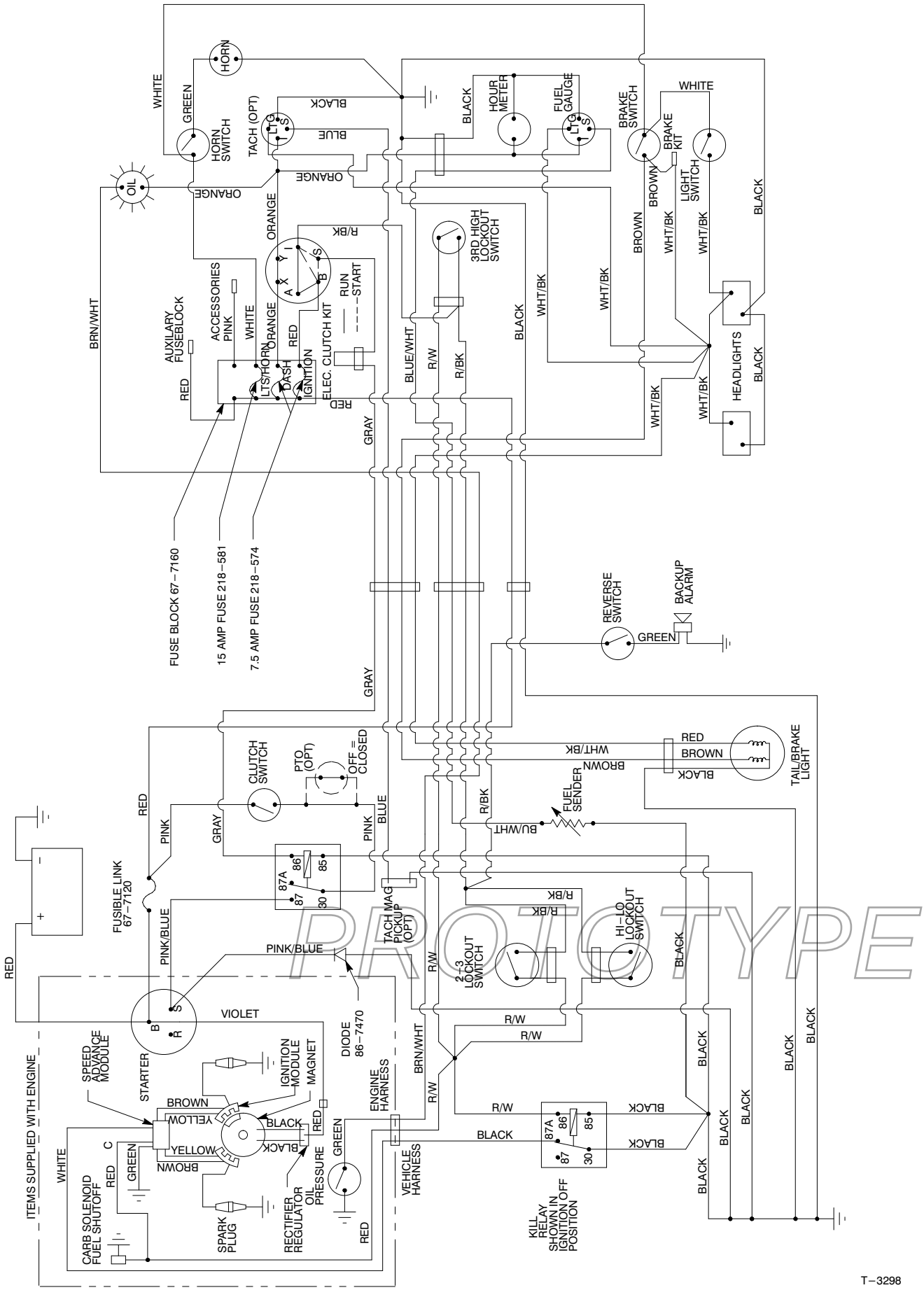
CONTROL PANEL ASM

Ref. No.	Part No.	Description	No. Used
1	321−2	Screw − Cap Hex. Hd.	7
2	32148−6	Insert − Threaded	2
3	87−3780	Box − Glove	1
4	321−3	Screw − Cap Hex. Hd.	2
5	3256−22	Washer − Flat	2
6	2410−35	Plug − Hole	1
7	87−8580	Light − Indicator (Red)	1
8	3274−31	Screw − Hex. Socket Hd.	4
9	87−7910	Decal − Dash	1
10	87−8360	Plug − Hole	2
11	63−8360	Key − Ignition	1
12	218−446	Nut − Hex.	1
13	218−447	Washer − Lock	1
14		Button − Horn	1
15	87−5580	Fuel Gauge Assembly (Incl. Ref. #23, 24, 27 & 28)	1
16	87−5910	Decal − Supervisor	1
17	32144−18	Screw − Cap Hex. Hd.	2
18	75−6820	Hourmeter	1
19	87−0740	Key − Supervisor Switch	1
20	87−1720	Nut − Supervisor Switch	1
21	218−600	Bulb	1
22	87−3790	Switch − Light	1
23	3253−15	Washer − Lock	2
24	3217−25	Nut − Hex	2
25		Nut − Hex.	1

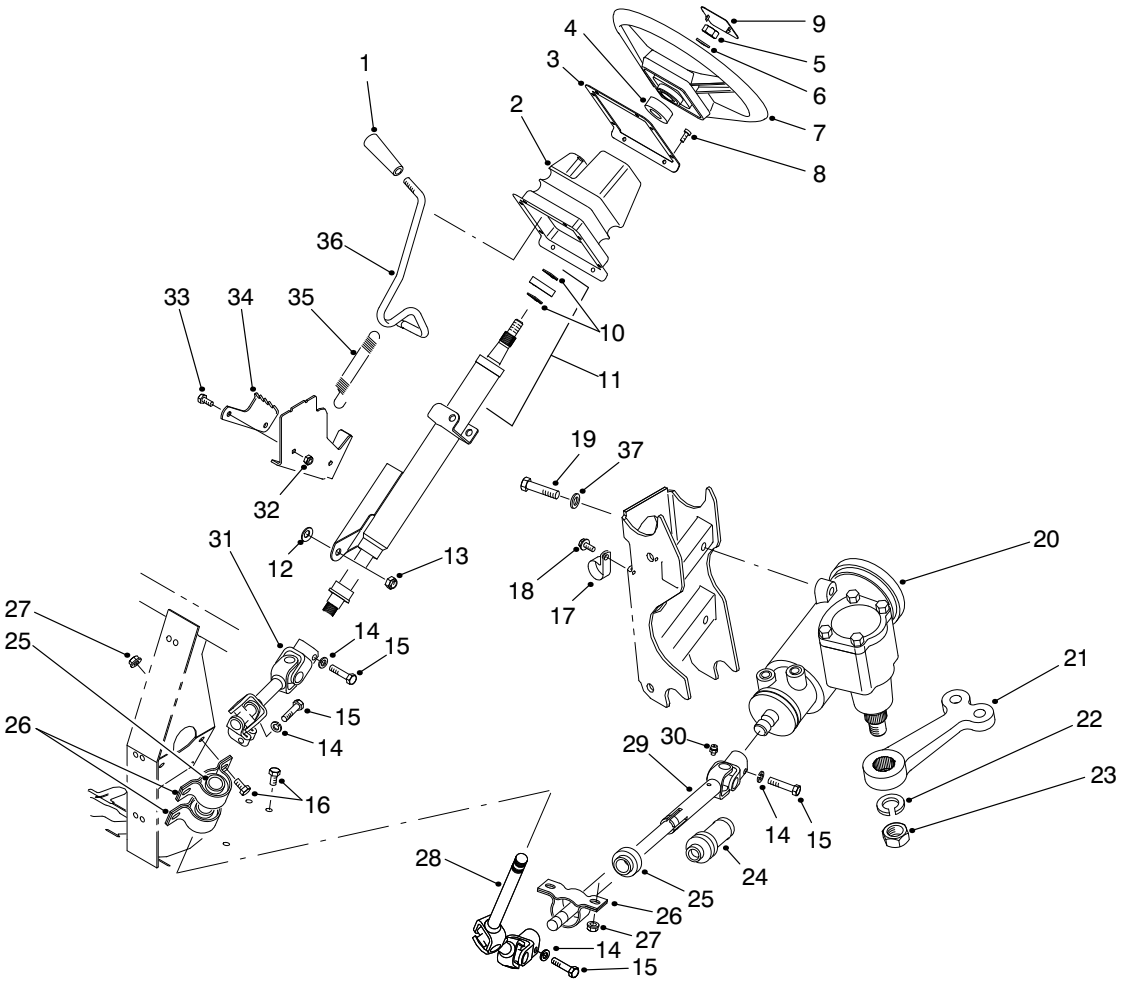
Ref. No.	Part No.	Description	No. Used
26	94−5245	Supervisor Switch Assy. (Incl. Ref. #19, 20 & 25)	1
27	3217−29	Nut − Hex.	3
28	3253−19	Washer − Lock	3
29		Nut − Hex.	1
30	18−2830	Horn Switch Assembly (Incl. Ref. #14 & 29)	1
31	2412−89	Clamp − R	1
32	321−4	Screw − Cap Hex. Hd.	1
33	27−2360	Ignition Switch Assembly (Incl. Ref. #12 & 13)	1
34	32128−33	Nut − Flange	12
35	32128−20	Nut − Flange	3
36	93-7094-03	Cover − Wire Harness	1
37	322−2	Screw − Cap Hex. Hd.	3
38	99−9427	Harness − Wire Rear	1
39	3296−2	Nut − Lock	2
40	87−6670	Decal − Fuse Block	1
41	87−8200	Harness − Wire Front	1
42	218−574	Fuse 7.5 Amp.	2
43	218−578	Fuse 10 Amp.	1
44	3250−13	Screw	2
45	87−8560	Control Panel Assembly (Incl. Ref. #9,16 & 48)	1
46	87−4230	Harness − Wire Front LH	1
47	94−3837	Cable − Clutch	1
48	94−5272	Decal − Warning	1

PROTOTYPE

ELECTRICAL SCHEMATIC



T–3298



T–1584–1

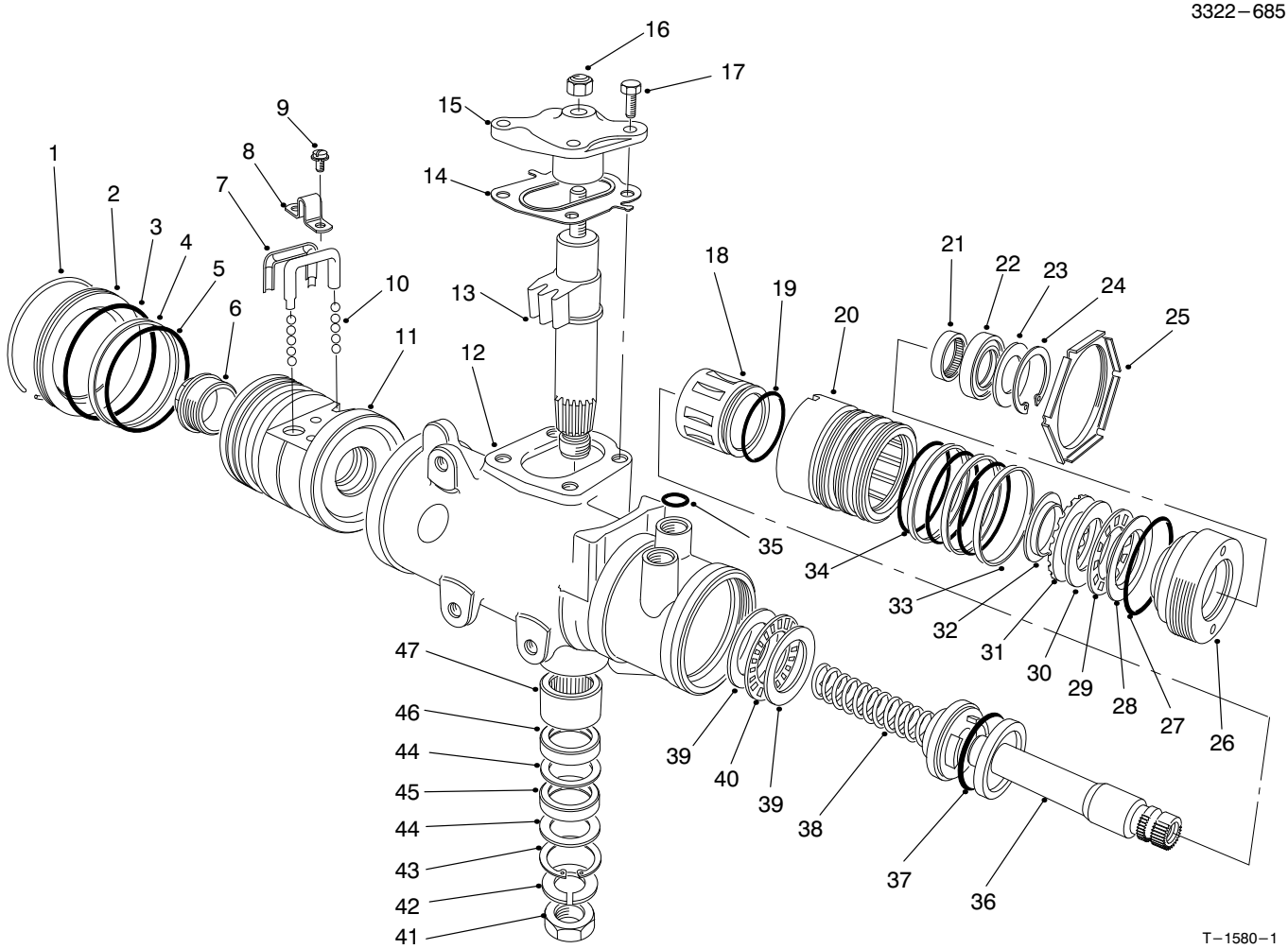
STEERING LINKAGE ASM

Ref. No.	Part No.	Description	No. Used
1	233–39	Knob	1
2	87–3460	Boot–Tilt Steering	1
3	87-4720-03	Plate–Steering Boot	1
4	21–9260	Spacer	1
5	3277–1	Nut–Hex.	1
6	48–8070	Washer–Flat	1
7	87–3820	Wheel–Steering	1
8	32144–116	Screw–PH	8
9	87–3750	Cover–Steering Wheel	1
10	43–6550	Ring–Retaining	2
11	92–4153	Asm–Steering Column (Incl. Ref. #10)	1
12	3290–455	Washer	1
13	3296–59	Nut–Lock	1
14	3253–4	Washer–Lock	4
15	48–7740	Screw–HH	4
16	322–2	Screw–HH	6
17	2412–105	Clamp–R	2
18	32144–10	Screw–TAP	2
19	93–7145	Screw–HH	3
20	87–1500	Asm–Steering Gear (Incl. Ref. #22 & 23)	1

Ref. No.	Part No.	Description	No. Used
21	87-0370-03	Arm–Pitman	1
22	39–7420	Washer–Lock	1
23	39–7440	Nut–Lock	1
24	92–4157	Boot–Steering Shaft	1
25	87–2280	Bearing	3
26	87–3250	Mount–Bearing	3
27	32128–20	Nut–HFH	6
28	92–4155	Asm–Slip Joint, Upper	1
29	92–4156	Asm–Slip Joint, Lower (Incl. Ref. #24 & 30)	1
30	302–5	Fitting–Grease	1
31	92–4154	Asm–Universal Joint	1
32	3296–42	Nut–Lock	2
33	321–3	Screw–HH	2
34	87–3610	Bracket–Detent	1
35	65–5360	Spring–Extension	1
36	87–3130	Lever–Tilt Steering	1
37	87–7480	Washer–Flat	3
*	87–3100	Asm–Lower Shaft (Incl. Ref. #24 & 28–30)	1
*	87–3120	Steering Column & Shaft (Incl. Ref. #10, 11 & 31)	1

*Not Illustrated

PROTOTYPE



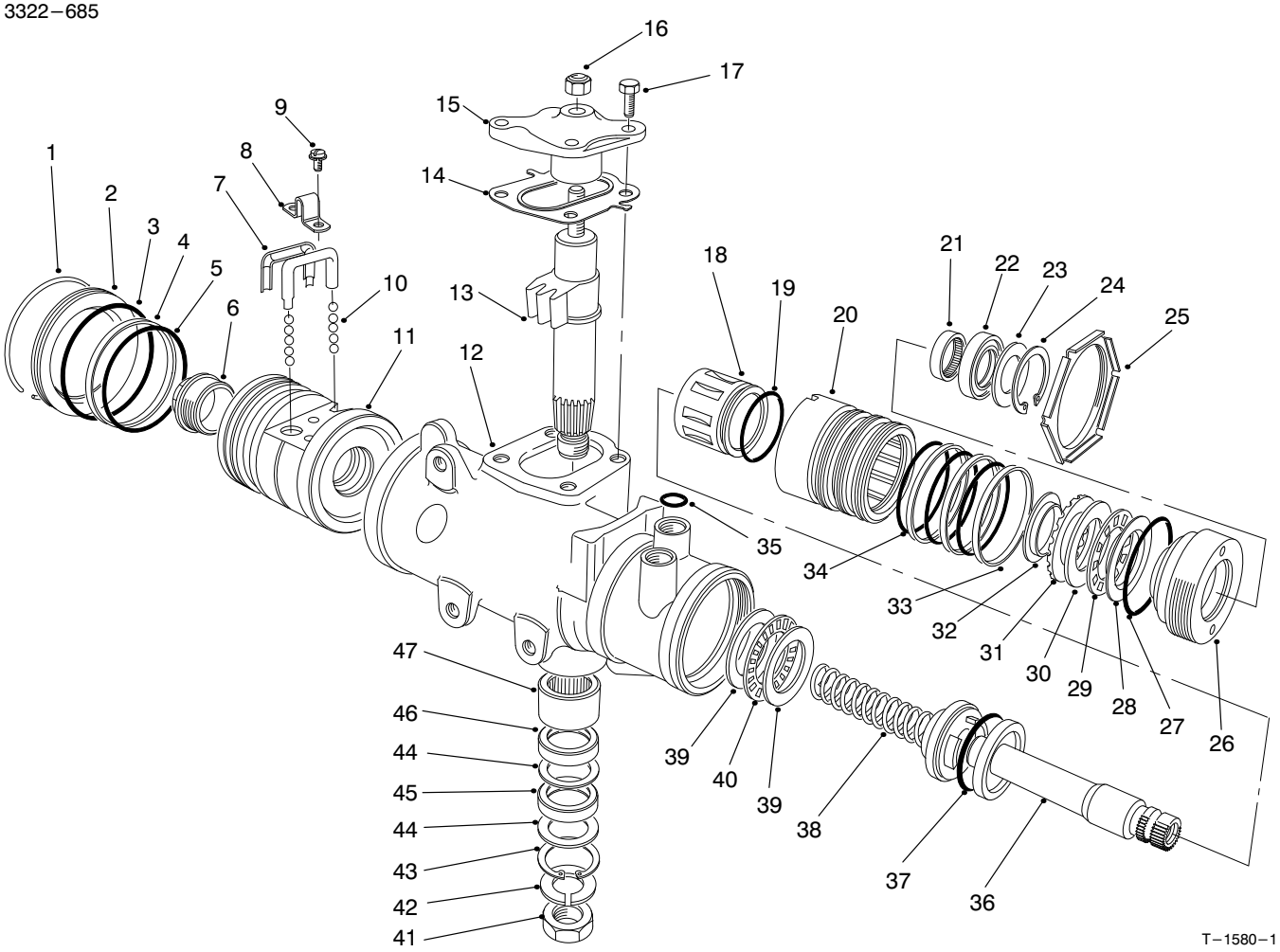
STEERING GEAR ASM NO. 87–1500

Ref. No.	Part No.	Description	No. Used
1		Ring–Retaining	1
2	92–4165	Plug–Housing End	1
3		Seal–Housing End Plug	1
4		Ring–Rack Piston	1
5		O–Ring, Rack Piston	1
6	18–4340	Plug–Rack Piston End	1
7	92–4168	Return–Guide Ball	2
8	18–4270	Clamp–Ball Return Guide	1
9	18–4260	Asm–Screw/Lockwasher	2
10	18–5190	Kit–Ball, Recirculating (Consists of 12 each of .2806 Dia. & .2812 Dia. Chrome Balls)	1
11		Nut–Rack Piston	1
12		Housing–Steering Gear	1
13		Gear–Pitman Shaft	1
14	28–8280	Kit–Seal, Side Cover (Incl. Ref. #17)	1
15		Cover–Housing Side	1
16	28–8220	Nut–Lash Adjuster	1
17	28–8210	Bolt–HFH	4
18		Spool Valve	1
19		O–Ring, Spool Valve	1
20		Valve Body	1
21	92–4169	Bearing–Needle	1
22		Seal–Stub Shaft	1
23		Seal–Stub Shaft Dust	1

Ref. No.	Part No.	Description	No. Used
24		Ring–Retaining	1
25	92–4159	Nut–Adjuster Plug Lock	1
26		Plug–Adjuster	1
27	28–8200	O–Ring	1
28		Race–Upper Bearing	1
29		Bearing–Roller, Thrust	1
30		Race–Thrust Bearing	1
31		Spacer–Thrust Bearing	1
32		Retainer–Bearing	1
33		Ring–Valve Body	3
34		O–Ring	3
35	39–7310	O–Ring	3
36		Shaft–Stub	1
37		O–Ring	1
38		Worm–Steering	1
39		Race–Thrust Bearing	2
40		Bearing–Roller, Thrust	1
41	39–7440	Nut–Pitman Arm	1
42	39–7420	Washer–Lock	1
43		Ring–Retaining	1
44		Washer–Seal, Backup	2
45		Seal–Pitman Shaft	1
46		Seal–Pitman Shaft	1
47	92–4170	Bearing–Pitman Shaft	1
*	92–4161	Asm–Cover Service Housing Side (Incl. Ref. #14–17)	1

*Not Illustrated

PROTOTYPE



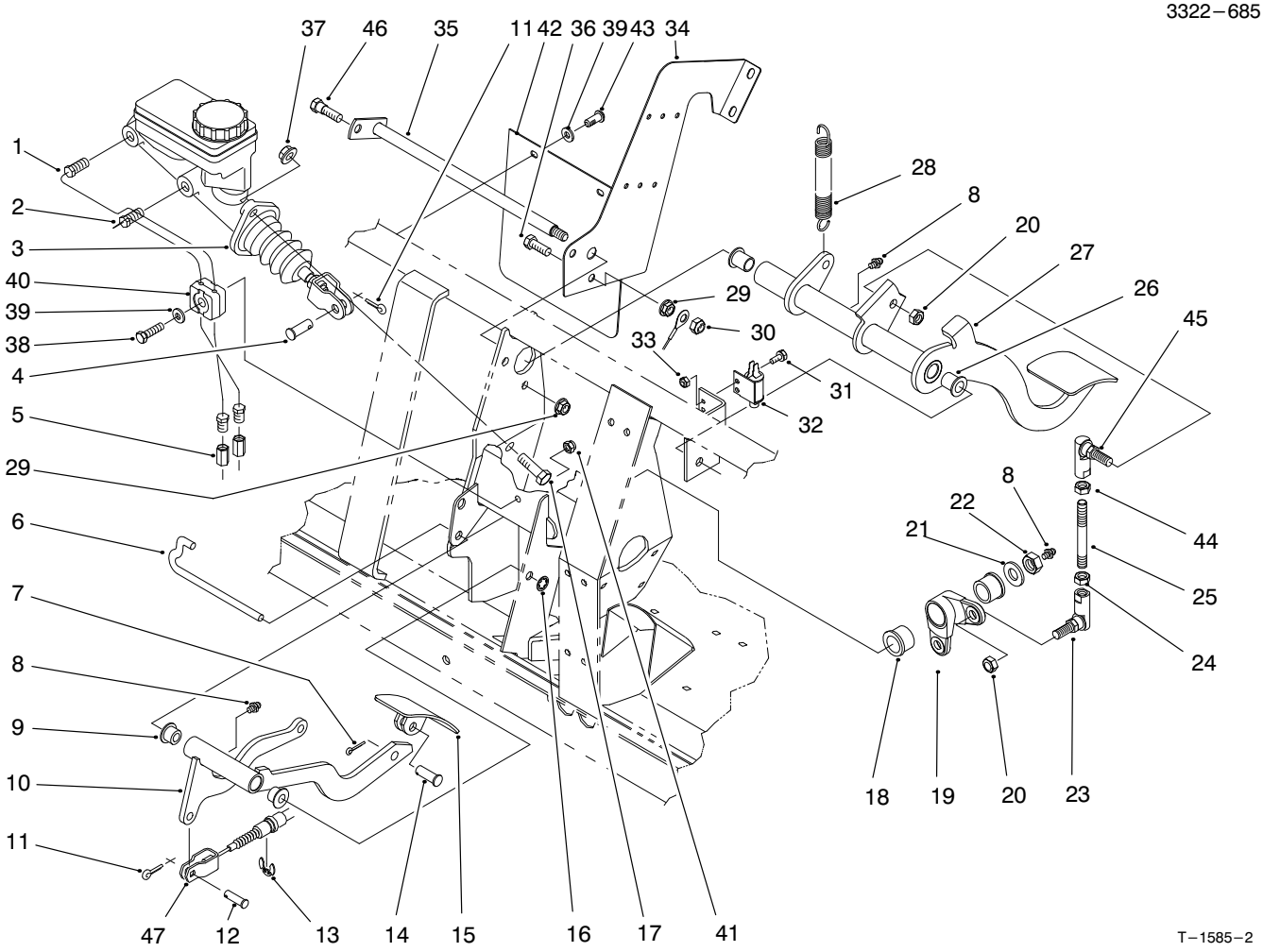
STEERING GEAR ASM NO. 87–1500

Ref. No.	Part No.	Description	No. Used
*	28–8270	Kit–Seal Service, End Plug (Incl. Ref. #1 & 3)	1
*	28–8290	Kit–Seal Service Rack/Piston (Incl. Ref. #4 & 5)	1
*	18–5180	Kit–Bearing, Lower Thrust (Incl. Ref. #39–40)	1
*	98–2962	Kit–Seal, Pitman Shaft (Incl. Ref. #43–46	1
*	18–5170	Kit–Seal, Valve Ring (Incl. Ref. #19, 33, 34 & 37)	1
*	92–4163	Asm–Steering Housing (Incl. Ref. #12 & 43–47)	1
*	92–4167	Asm–Plug Service (Incl. Ref. #22–24 & 27)	1

Ref. No.	Part No.	Description	No. Used
*	92–4162	Pitman Shaft–Gear Service (Incl. Ref. #13, 14 & 17)	1
*	92–4158	Asm–Valve, Hyd. Gear (Incl. Ref. #18–20, 33, 34, 36 & 37)	1
*	92–4160	Kit–Bearing Service, Upper (Incl. Ref. #28–32)	1
*	92–4166	Asm–Rack/Piston/Nut (Incl. Ref. #1–11 & 38)	1
*	92–4164	Asm–Plug, Service Adjust. (Incl. Ref. #21–24 & 26–32)	1
*	87–1500	Steering Gear (Complete)	1

PROTOTYPE

*Not Illustrated

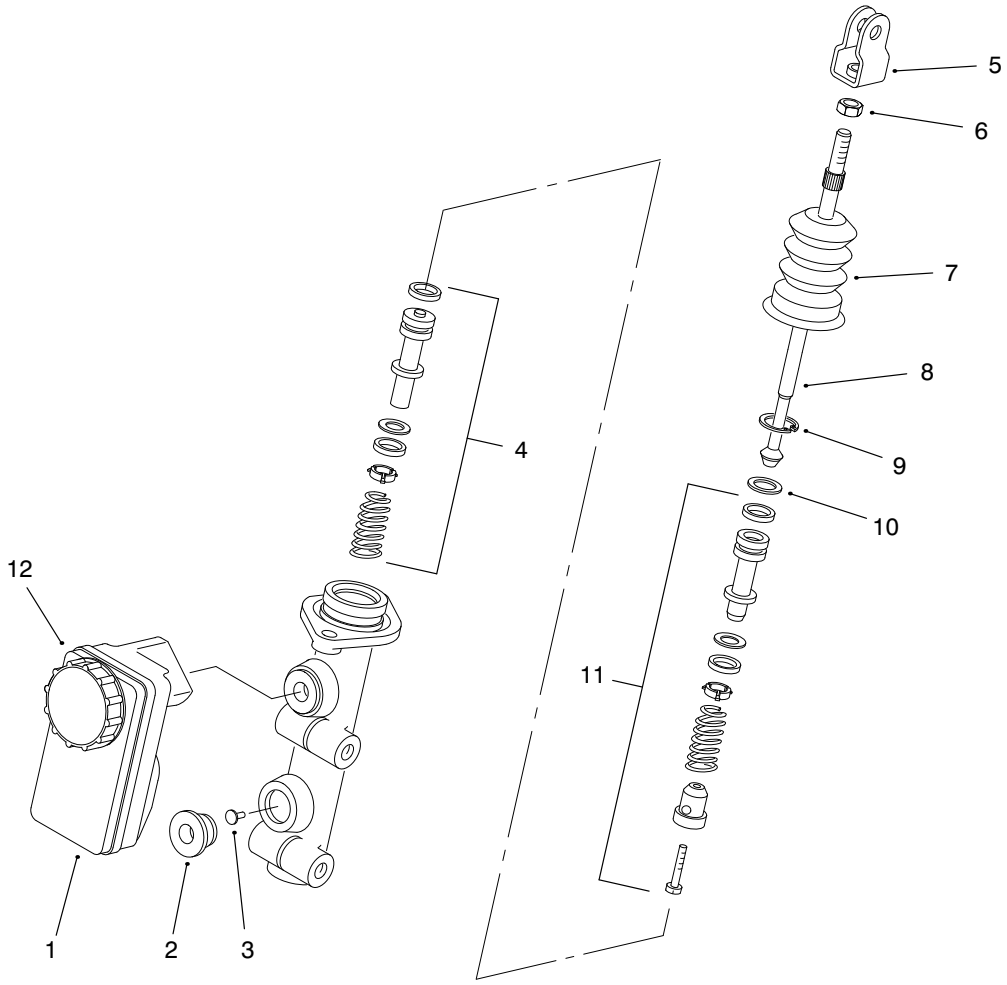


BRAKE & ACCELERATOR PEDAL ASM

Ref. No.	Part No.	Description	No. Used
1	94–3814	Tube–Hydraulic	1
2	94–3815	Tube–Hydraulic	1
3	94–3800	Asm–Master Cylinder	1
4	283–2	Pin–Clevis	1
5	87–3570	Union–Brake Line	2
6	87–2880	Shaft–Accelerator Pedal	1
7	3272–6	Pin–Cotter	1
8	302–5	Fitting–Grease	3
9	256–259	Bushing–Flange	2
10	93-8961-03	Arm–Accelerator Pedal	1
11	3272–10	Pin–Cotter	2
12	283–30	Pin–Clevis	1
13	32120–47	Ring–E	1
14	283–85	Pin–Clevis	1
15	93-8969-03	Pedal–Accelerator	1
16	32151–56	Ring–Retaining	1
17	323–7	Screw–HH	2
18	256–247	Bushing–Flange	2
19	94–5223	Bell Crank	1
20	3296–6	Nut–Lock	2
21	3256–26	Washer–Flat	1
22	3296–23	Nut–Lock	1
23	68–3840	Ball Joint	1
24	3220–3	Nut–Jam	1

Ref. No.	Part No.	Description	No. Used
25	94–5299	Rod–Link	1
26	256–155	Bushing–Flange	2
27	93-8965-03	Pedal–Brake	1
28	76-9430-03	Spring–Extension	1
29	32128–20	Nut–HFH	2
30	3296–29	Nut–Lock	1
31	3290–321	Screw–HFH	2
32	55–7120	Switch–Brake Light	1
33	3296–2	Nut–Lock	2
34	94-3821-03	Plate–Center, Frame	1
35	95–7394	Shaft–Brake	1
36	322–5	Screw–HH	1
37	3290–357	Nut–Flange	2
38	321–9	Screw–HH	1
39	3256–22	Washer–Flat	3
40	87–7660	Clamp–Tube	2
41	3296–42	Nut–Lock	1
42	94–5221	Flap–Master Cylinder	1
43	87–6620	Screw–Torx Pan Hd.	2
44	3220–16	Nut–Hex. Jam	1
45	68–3841	Asm–Ball Joint	1
46	28–0540	Bolt–Shoulder	1
47	94–3836	Cable–Accelerator	1

PROTOTYPE



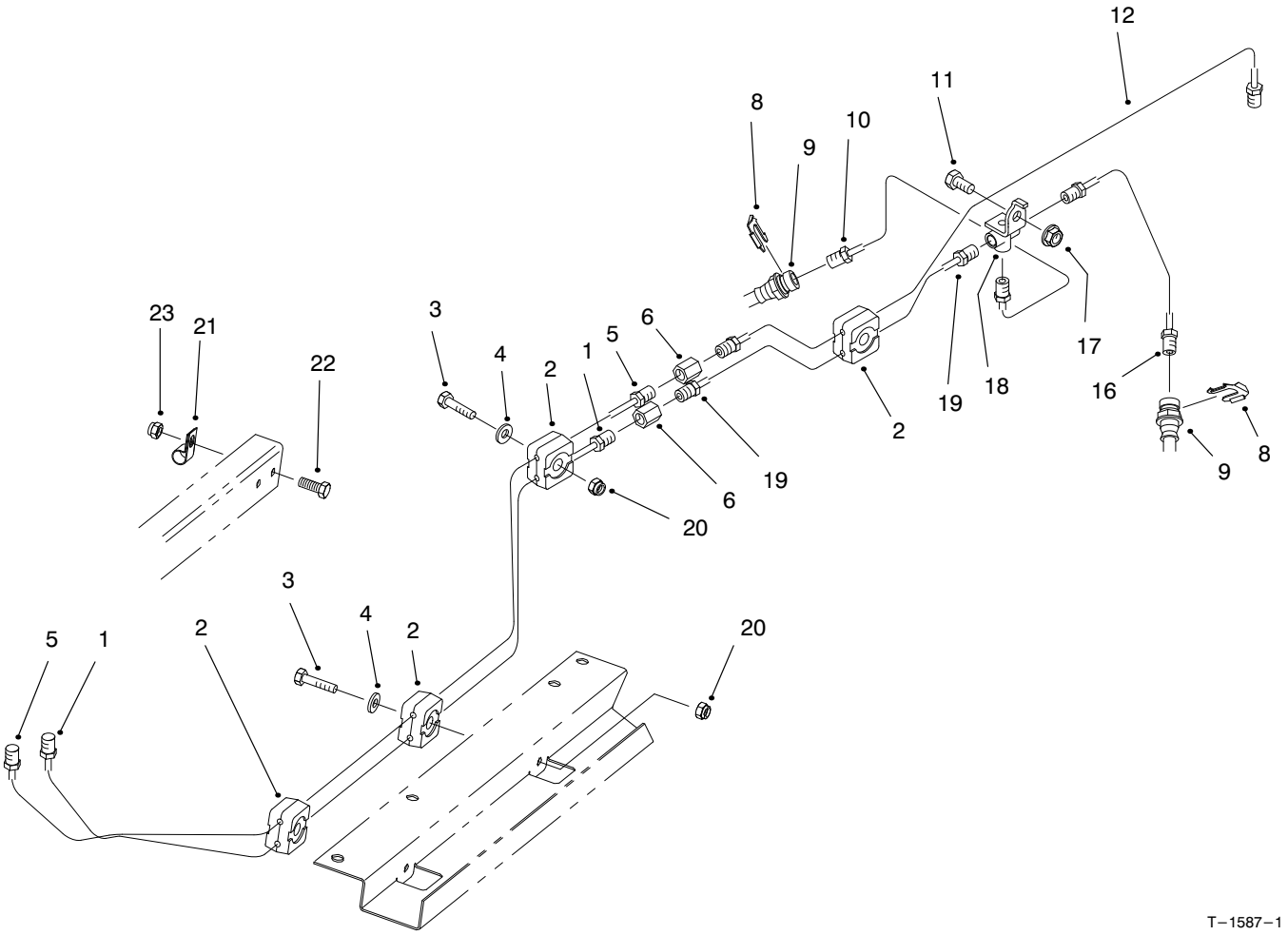
T–2339–1

MASTER BRAKE CYLINDER NO. 94–3800

Ref. No.	Part No.	Description	No. Used
1	87–3040	Reservoir–Master Cylinder (Incl. Ref. #12)	1
2	93–8971	Seal–Port, Flange	2
3	92–4103	Pin–Stop	1
4	92–4102	Asm–Secondary Piston	1
5	92–4110	Clevis	1
6	21–0360	Nut–Hex.	1

Ref. No.	Part No.	Description	No. Used
7	94–5209	Cover–Dust	1
8	94–5210	Rod–Push	1
9	92–4109	Circlip	1
10	92–4108	Washer–Retainer	1
11	92–4101	Asm–Primary Piston	1
12	92–4112	Asm–Cap	1

PROTOTYPE



T−1587−1

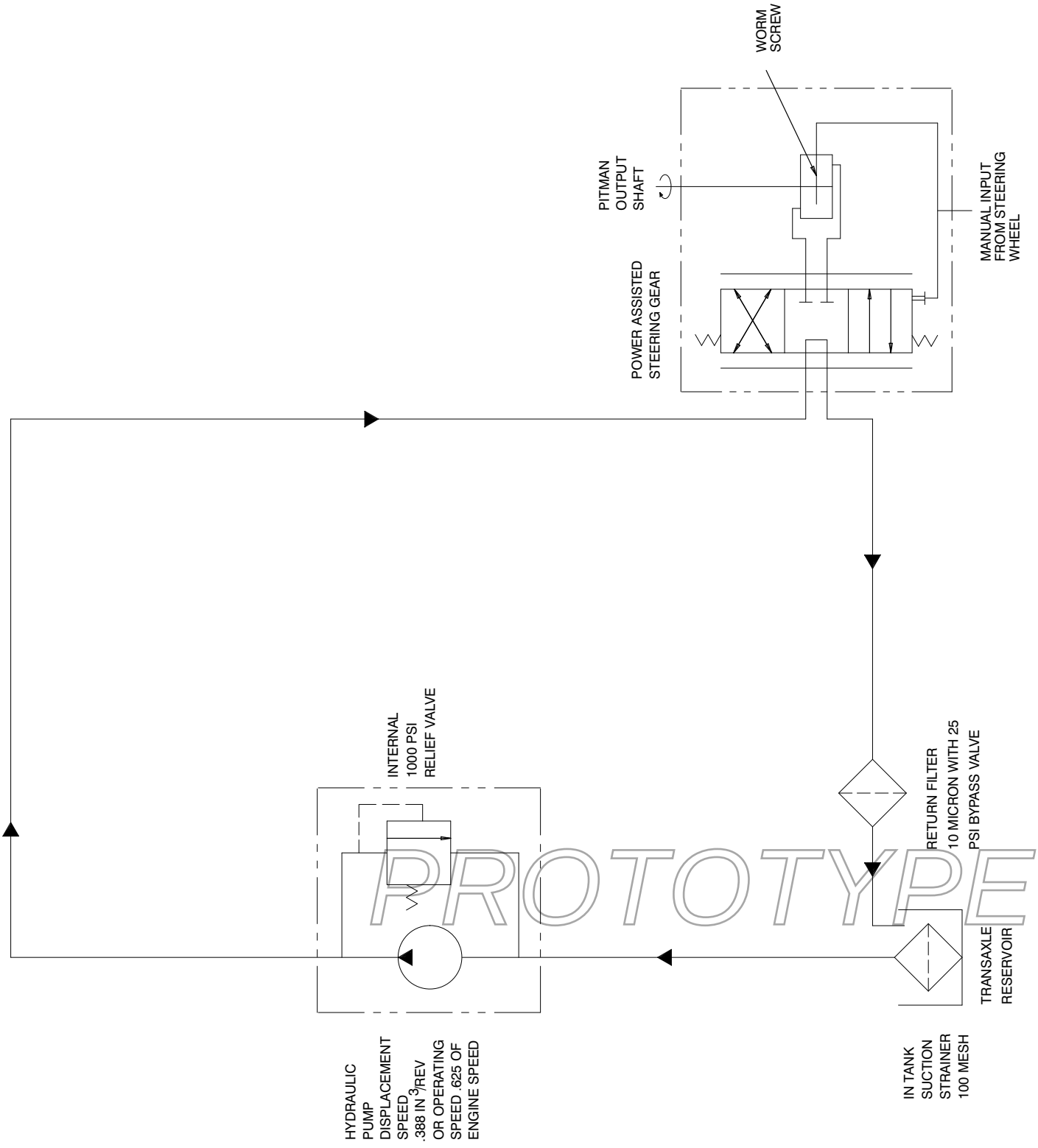
HYDRAULIC BRAKE LINE ROUTING ASM

Ref. No.	Part No.	Description	No. Used
1	94−3820	Tube−Brake Front	1
2	87−7660	Clamp−Brake Line	8
3	321−9	Screw−HH	4
4	3256−22	Washer−Flat	4
5	94−3819	Tube−Brake Rear	1
6	87−3570	Fitting−Union	2
8	87−3580	Retainer−Brake Hose	2
9	93−7123	Hose−Brake Front	2
10	93−7081	Tube−Brake Front RH	1
11	322−2	Screw−HH	1

Ref. No.	Part No.	Description	No. Used
12	94−3842	Tube−Brake Rear	1
16	93−7082	Tube−Brake Front LH	1
17	32128−20	Nut−Flange	1
18	87−3560	Tee−Brake Line	1
19	93−7085	Tube−Brake Front	1
20	3296−42	Nut−Lock	4
21	2412−89	Clamp−R	1
22	321−4	Screw−HH	1
23	32128−33	Nut−Hex, Flange	1

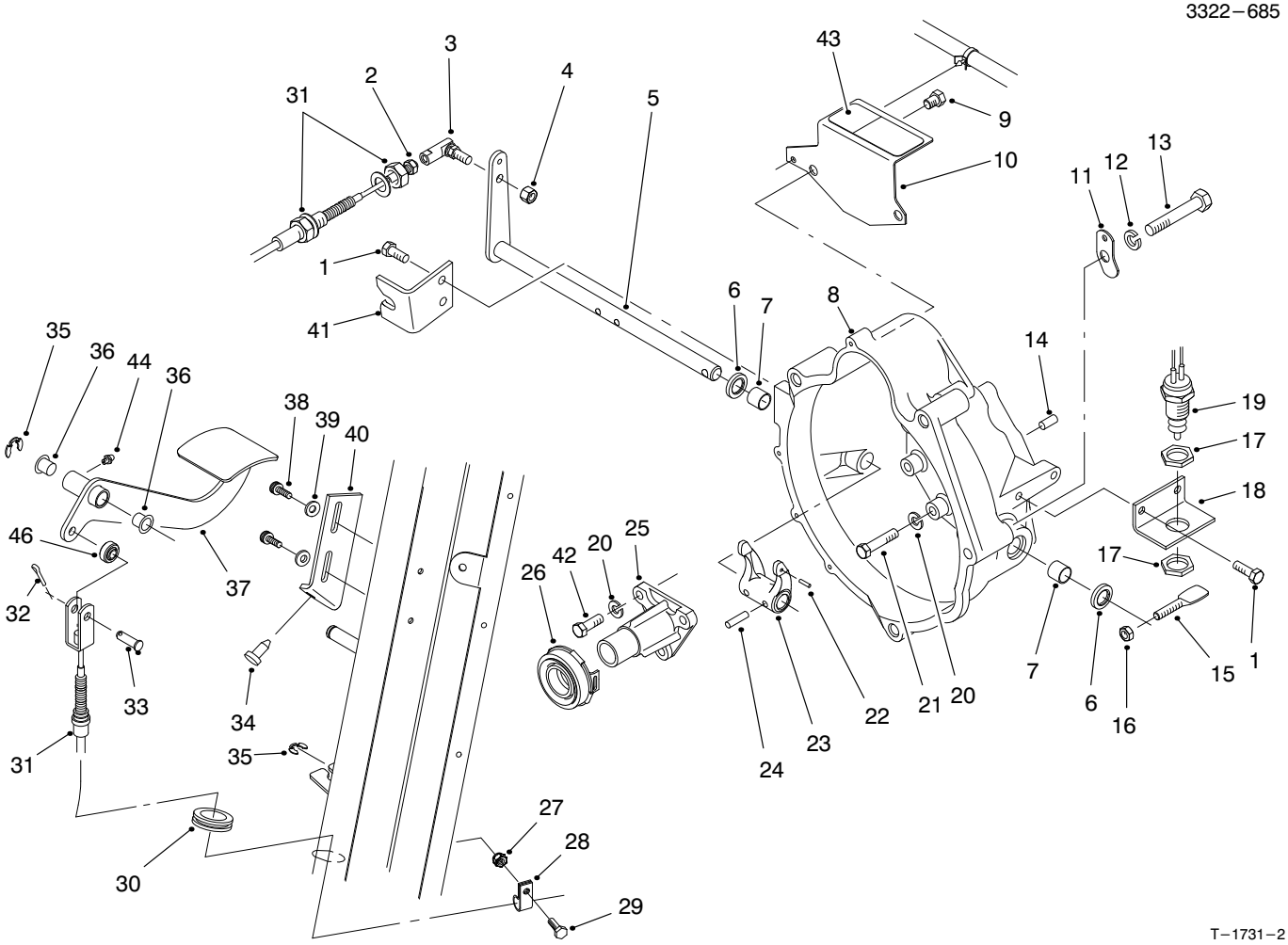
PROTOTYPE

HYDRAULIC SCHEMATIC



PROTOTYPE

T–3285



T−1731−2

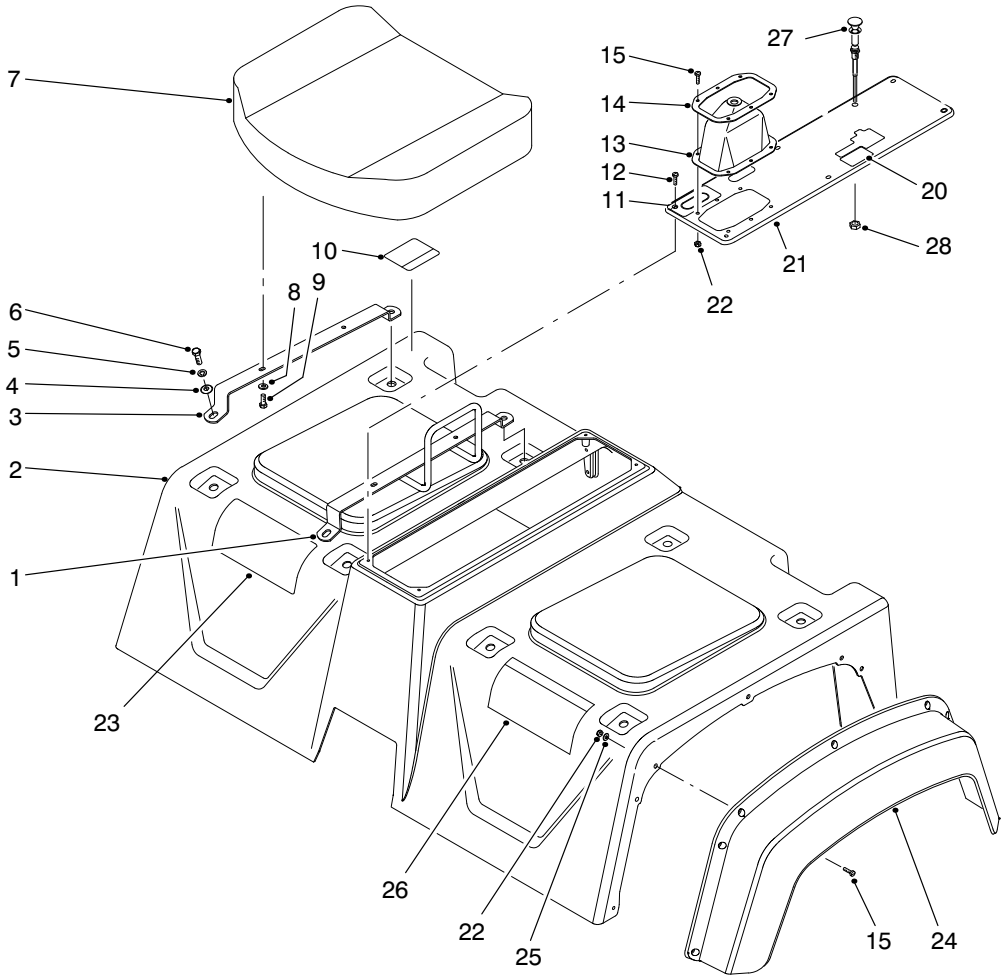
CLUTCH LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	33114−020	Screw − Cap Hex. Hd.	4
2	3220−2	Nut − Jam	1
3	2411−33	Joint − Ball	1
4	3296−4	Nut − Lock	1
5	87−5290	Shaft − Release	1
6	87−1920	Seal − Shaft	2
7	87−3770	Bushing − Sleeve	2
8	93−7121	Housing − Bell	1
9	60−9920	Screw − Cap Hex. Hd.	2
10	87−8790	Starter Cover Plate Assembly (Incl. Ref. #43)	1
11	87−6410	Bracket − Harness	1
12	3253−22	Washer − Lock	4
13	56−2150	Screw − Cap Hex. Hd.	4
14	87−1910	Pin − Alignment	2
15	87−5360	Lever	1
16	3296−29	Nut − Lock	1
17	3218−20	Nut − Jam	2
18	87−5350	Bracket − Switch	1
19	87−5490	Switch − Neutral	1
20	42−9850	Washer − Lock	12
21	33114−040	Screw − Cap Hex. Hd.	9
22	32121−7	Pin − Roll	1
23	87−5300	Fork − Clutch	1

Ref. No.	Part No.	Description	No. Used
24	32121−24	Pin − Roll	2
25	87−5320	Guide − Release	1
26	87−2100	Bearing − Release	1
27	32128−33	Nut − Flange Lock	1
28	2412−89	Clamp − R	1
29	321−4	Screw − Cap Hex. Hd.	1
30	240−5	Grommet	1
31	99−1201	Clutch Cable Assembly (Incl. Ref. #2)	1
32	3272−10	Pin − Cotter	1
33	283−75	Pin − Clevis	1
34	87−8460	Bumper	1
35	32120−47	Ring − E	2
36	256−156	Bushing − Flange	2
37	99-1199-03	Pedal − Clutch	1
38	87−6620	Screw − Torx Pan Hd.	2
39	3256−22	Washer − Flat	2
40	87−8710	Tab − Clutch	1
41	87−8471	Bracket − Clutch	1
42	33114−025	Screw − Cap Hex. Hd.	3
43	66−6840	Decal − Hot Surface	1
44	302−5	Fitting − Grease	1
46	99−1202	Rod End	1

PROTOTYPE

3322−685



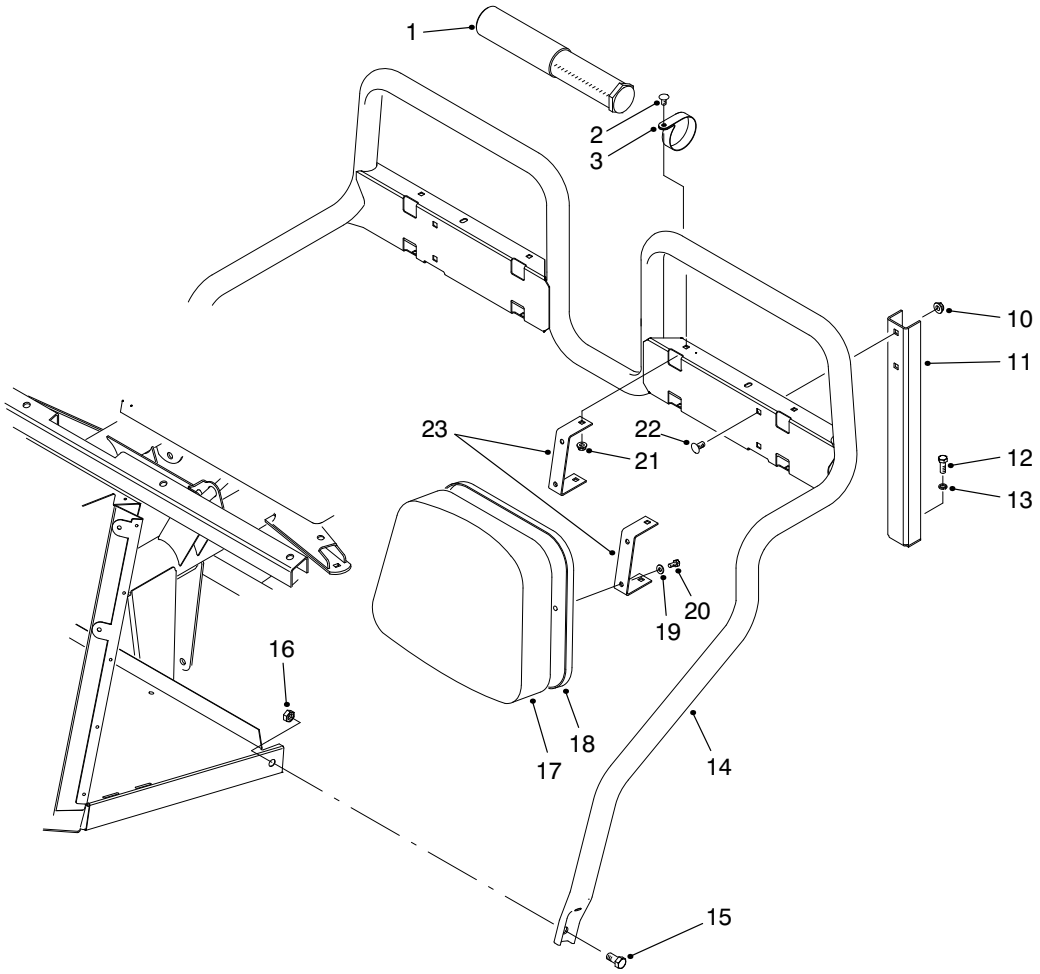
T−3286

SEAT BASE ASM

Ref. No.	Part No.	Description	No. Used
1	87-6890-03	Hold−Hand	1
2	98−2986	Shroud−Yellow	1
3	87-3800-03	Bracket−Seat Bottom	3
4	3256−23	Washer−Flat	8
5	3253−4	Washer−Lock	8
6	322−5	Screw−HH	8
7	87−5060	Cushion−Seat Bottom	2
8	3256−22	Washer−Flat	8
9	321−4	Screw−HH	8
10	87−5930	Decal−Caution	1
11	87−5960	Decal−Axle	1
12	32144−52	Screw−PH TAP	6

Ref. No.	Part No.	Description	No. Used
13	87−8620	Boot−Shift	1
14	87-3760-03	Plate−Shift Boot	1
15	3250−13	Screw−PPH	20
20	87−6020	Decal−Brake	1
21	99-9443-03	Cover−Console	1
22	3296−2	Nut−Lock	20
23	99−9437	Decal−Quick Ref.	1
24	87−9480	Fender−Front	2
25	3256−61	Washer−Flat	14
26	100−4451	Decal−Danger	1
27	87−8060	Choke Control Assembly	1
28	3220−3	Nut−Jam	1

PROTOTYPE



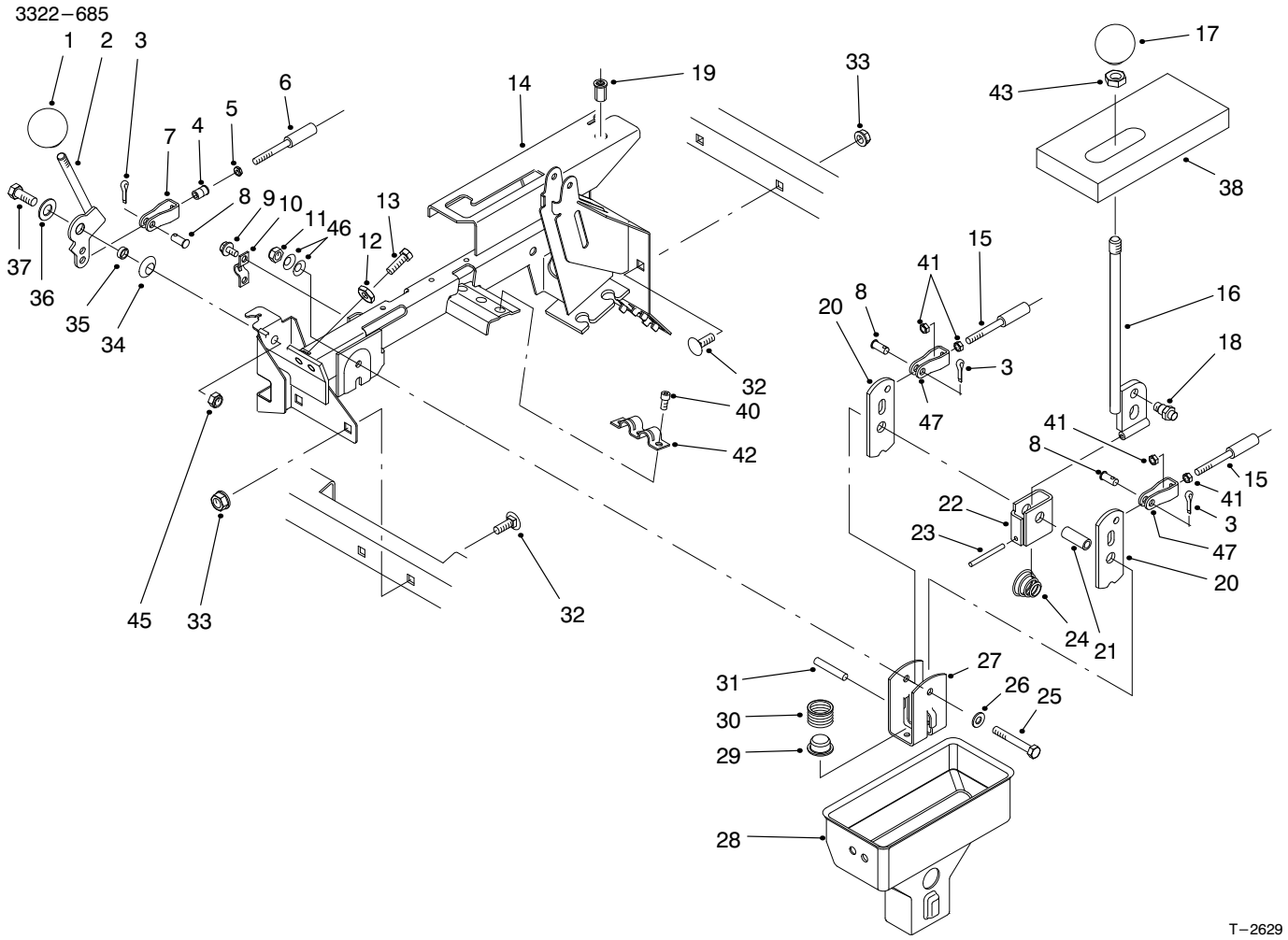
T–3287

SEAT BACK ASM

Ref. No.	Part No.	Description	No. Used
1	74–0720	Tube–Manual	1
2	3230–18	Bolt–CARR	8
3	2412–133	Clamp–R	2
10	3290–357	Nut–HFH	4
11	87-2510-03	Bracket–Seat Frame	2
12	323–6	Screw–HH	2
13	3253–21	Washer–Lock	2
14	87-6170-03	Frame–Seat	1
15	325–4	Screw–HH	2

Ref. No.	Part No.	Description	No. Used
16	3296–23	Nut–Lock	2
17	87–6290	Cushion–Seat Back	2
18	87–6280	Plate–Seat Back	2
19	3256–22	Washer–Flat	8
20	321–4	Screw–HH	8
21	32128–20	Nut–Flange Lock	8
22	3231–21	Bolt–CARR	4
23	87-6240-03	Bracket–Seat Back	4

PROTOTYPE

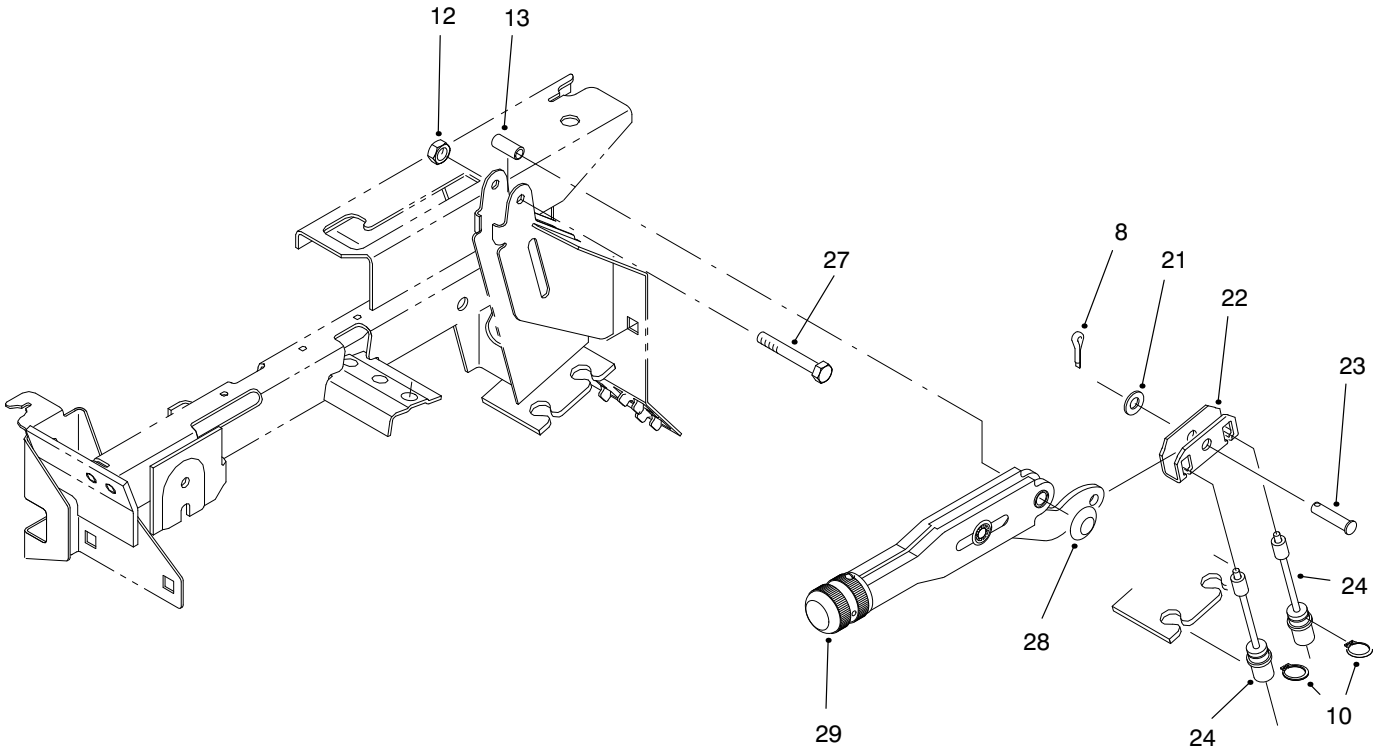


HI–LO & SHIFT LEVER ASM

Ref. No.	Part No.	Description	No. Used
1	233–37	Knob	1
2	87–4350	Lever–Hi–Lo	1
3	3272–6	Pin–Cotter	3
4	32148–15	Insert–Threaded	1
5	3219–14	Nut	1
6	93–7106	Asm–Hi–Lo Cable (Incl. Ref. #5)	1
7	87–7160	Asm–Clevis, Cable (Incl. Ref. #4)	1
8	283–62	Pin–Clevis	3
9	32144–4	Screw–HFH	2
10	87–4340	Clamp–Cable	1
11	3296–58	Nut–Lock	2
12	3220–3	Nut–Jam	2
13	3211–8	Screw–HH	2
14	94–5202	Asm–Lever Support (Incl. Ref. #19)	1
15	93–7105	Asm–Cable (Incl. Ref. #41)	2
16	87–2040	Lever–Shift	1
17	87–6720	Knob	1
18	87–3650	Pin–Shift	1
19	32148–7	Nut–Clinch	2
20	87–3540	Link–Shift	2
21	87–2520	Tube–Pivot	1

Ref. No.	Part No.	Description	No. Used
22	87–6040	Bracket–Shifter	1
23	32121–48	Pin–Roll	1
24	87–2900	Spring–Compression	1
25	322–12	Screw–HH	1
26	87–8640	Washer–Flat	1
27	87–3520	Clevis	1
28	87–2260	Boot–Shift Lower	1
29	87–3530	Button–Shifter	1
30	87–3660	Spring–Compression	1
31	3290–507	Pin–Dowel	1
32	3231–21	Bolt–CARR	4
33	3290–357	Nut–HFH	4
34	3290–221	Washer–Spring	1
35	76–9100	Spacer–Hi–Lo Lever	1
36	49–9150	Washer–Flat	1
37	323–6	Screw–HH	1
38	87–6570	Foam–Seal	1
40	65–5220	Screw–HSH	3
41	3220–1	Nut–Jam	4
42	87–4960	Clamp–Cable	1
43	3218–18	Nut–Jam	1
45	3296–39	Nut–Lock	1
46	3290–456	Washer–Belleville	2
47	87–2310	Clevis–Cable	2

PROTOTYPE



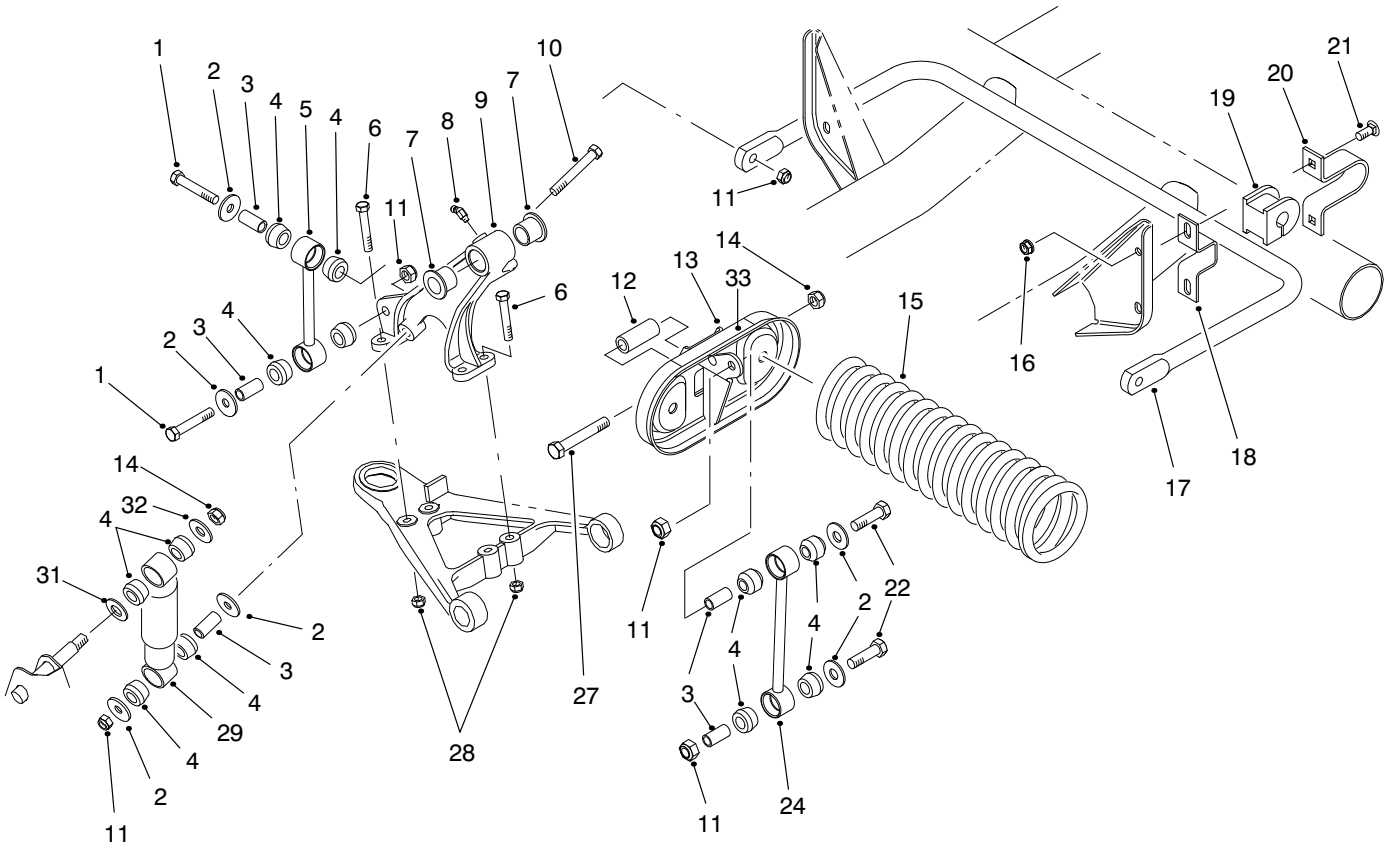
T–3288

PARKING BRAKE ASM

Ref. No.	Part No.	Description	No. Used
8	3272–6	Pin–Cotter	1
10	32120–47	Ring–Retaining	2
12	3296–42	Nut–Lock	1
13	87–4710	Spacer–Parking Brake	1
21	3256–23	Washer–Flat	1
22	87–3480	Plate–Brake Equalizer	1

Ref. No.	Part No.	Description	No. Used
23	94–3829	Pin–Clevis	1
24	87–8240	Cable–Parking Brake	2
27	321–9	Screw–HH	1
28	3290–477	Washer–Curved	1
29	87-2710-03	Lever–Parking Brake	1

PROTOTYPE



T−1593−1

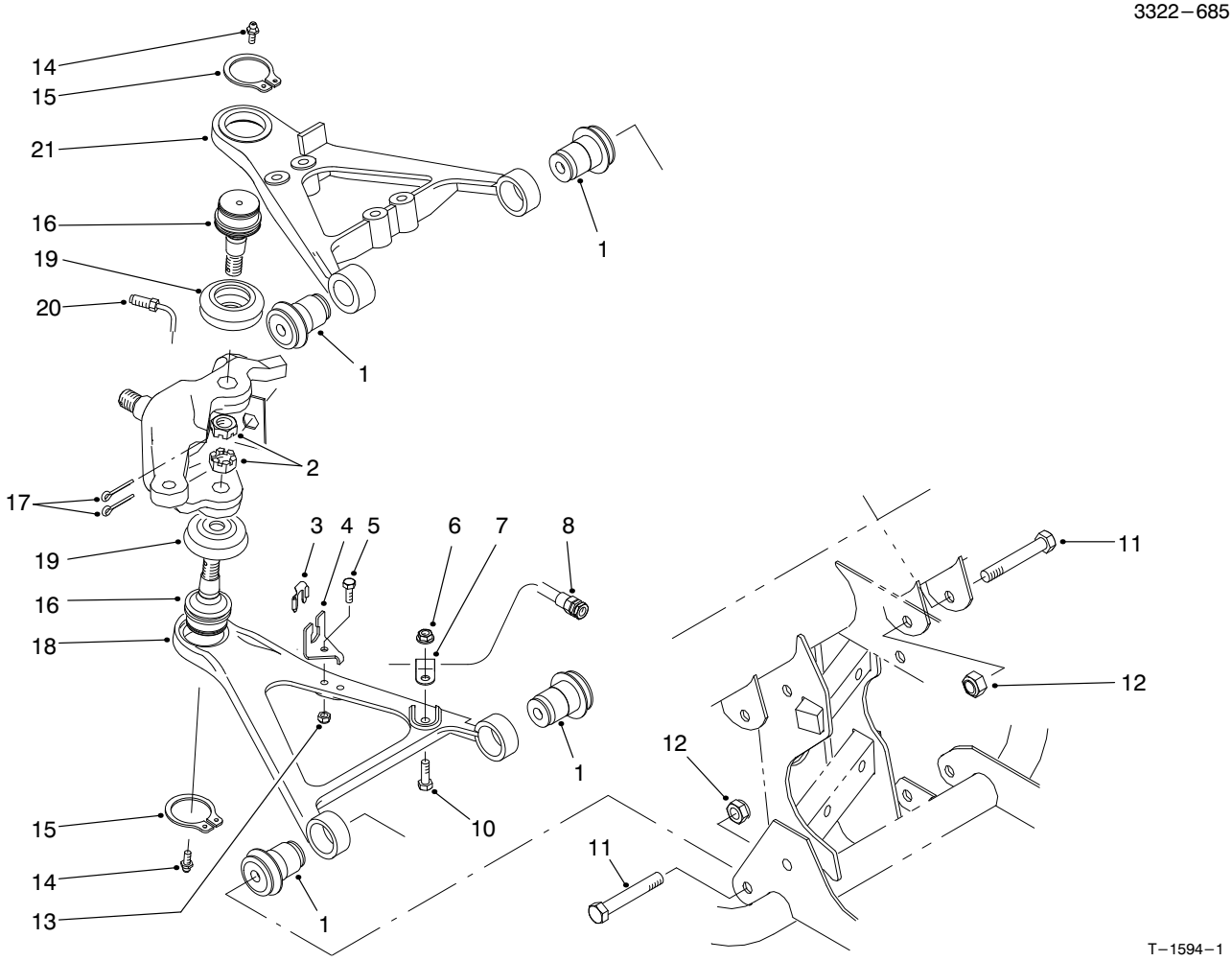
FRONT SUSPENSION ASM

Ref. No.	Part No.	Description	No. Used
1	324−10	Screw−HH	4
2	87−5330	Washer	8
3	87−3600	Spacer	10
4	87−3920	Bushing−Rubber	16
5	87-3860-03	Link−Anti−Sway Bar	2
6	323−12	Screw−HH	8
7	33−3090	Bushing−Flange	4
8	302−11	Fitting−Grease	1
9	87-0150-03	Tower−Control Arm RH	1
*	87-0160-03	Tower−Control Arm LH	1
10	324−13	Screw−HH	2
11	3296−48	Nut−Lock	10
12	87−2500	Sleeve−Spring Pivot	2
13	87−7150	Asm−Cradle, Spring (Incl. Ref. #33)	2
14	3296−23	Nut−Lock	4

Ref. No.	Part No.	Description	No. Used
15	87-0690-03	Spring−Compression	2
16	3290−357	Nut−HFH	4
17	87-3850-03	Bar−Anti−Sway	1
18	87-3890-03	Bracket−Anti−Sway Bar	2
19	87−3910	Bushing−Anti−Sway Bar	2
20	87-4010-03	Clamp−Anti−Sway Bar	2
21	3231−3	Bolt−CARR	4
22	324−9	Screw−HH	4
24	87-2480-03	Link−Stabilizer	2
27	325−13	Screw−HH	4
28	3296−39	Nut−Lock	8
29	87−3110	Absorber−Shock	2
31	3256−27	Washer−Flat	2
32	3256−6	Washer−Flat	2
33	44−0760	Decal−Warning	2

PROTOTYPE

*Not Illustrated



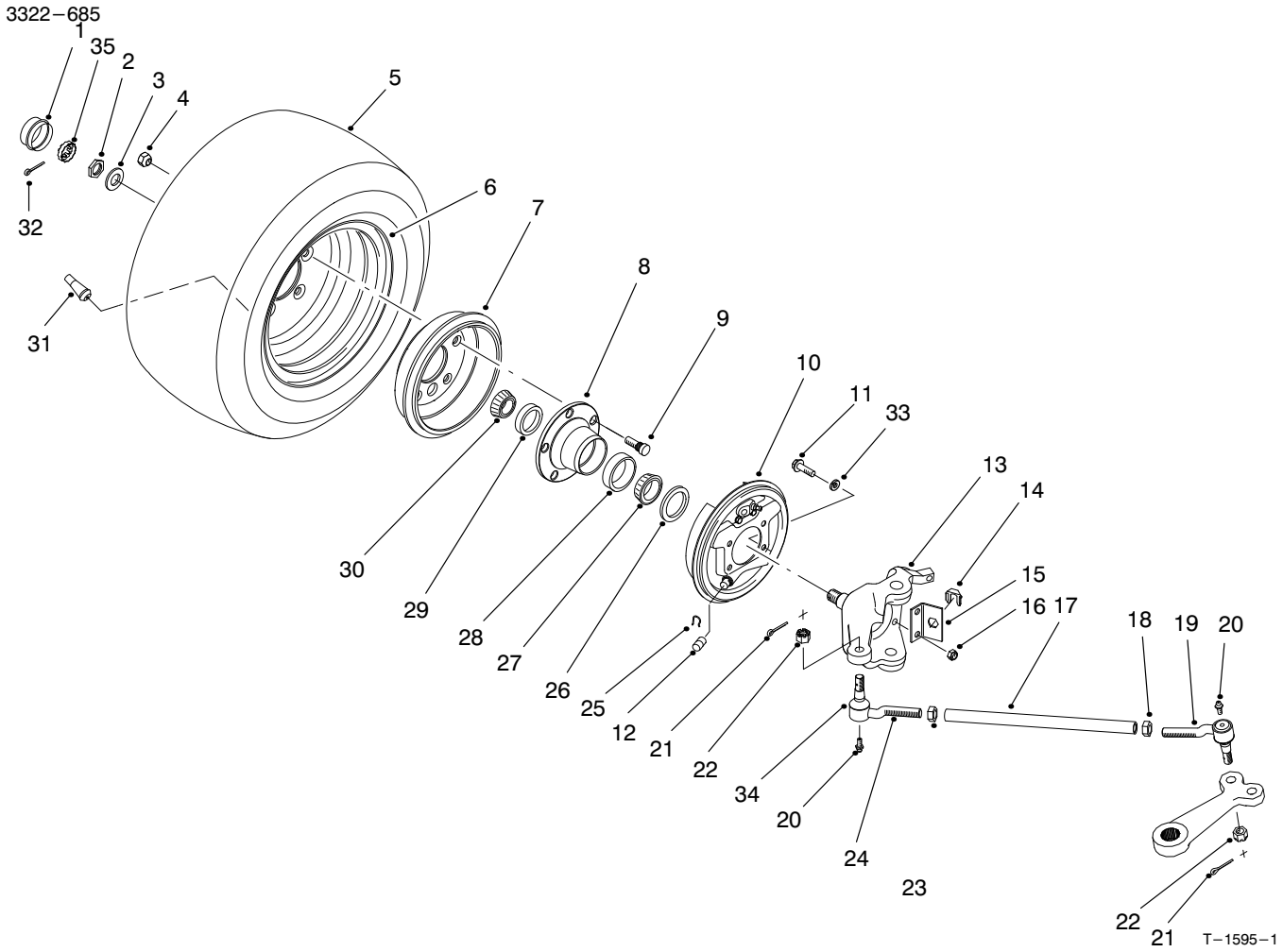
FRONT SUSPENSION CONTROL ARM ASM

Ref. No.	Part No.	Description	No. Used
1	87–1450	Bushing–Rubber	8
2	32136–2	Nut–Slotted	2
3	87–3580	Retainer–Brake Hose	2
4	87–2870	Bracket–Brake Hose	2
5	321–6	Screw–HH	2
6	32128–20	Nut–HFH	2
7	2412–10	Clamp–R	2
8	93–7123	Hose–Brake Front	2
10	322–5	Screw–HH	2
11	325–13	Screw–HH	8
12	3296–23	Nut–HFH	8
13	3296–42	Nut–Lock	2

Ref. No.	Part No.	Description	No. Used
14	302–5	Fitting–Grease	4
15	32151–104	Ring–Snap	4
16	87–1430	Joint–Ball	4
17	3272–12	Pin–Cotter	4
18	87-0210-03	Arm–Control Lower RH	1
*	87-0220-03	Arm–Control Lower LH	1
19	87–2420	Boot	4
20	87–2800	Tube–Brake RH	1
*	87–2790	Tube–Brake LH	1
21	93-7135-03	Arm–Control Upper RH	1
*	93-7133-03	Arm–Control Upper LH	1

PROTOTYPE

*Not Illustrated



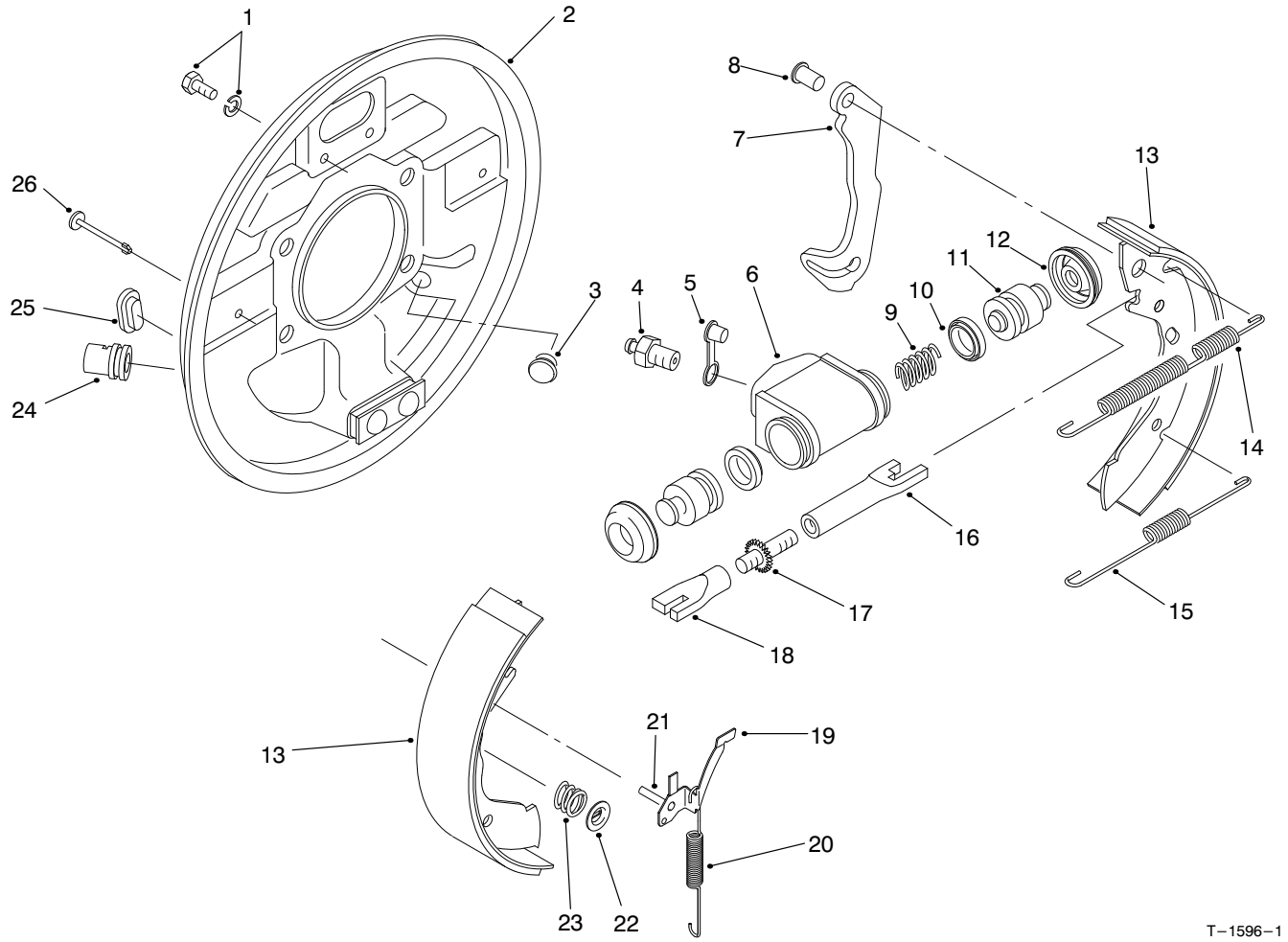
FRONT WHEEL ASM

Ref. No.	Part No.	Description	No. Used
1	241–119	Cap–Dust	2
2	3220–7	Nut–Jam	2
3	93–0309	Washer–Tab	2
4	23–7270	Nut–Lug	10
5	100–4412	Tire	2
6	100–4413	Rim	2
7	87–0270	Drum–Brake	2
8	87–5560	Hub–Wheel	2
9	87–8730	Stud–Drive	10
10	87–3010	Asm–Brake RH	1
*	87–3020	Asm–Brake LH	1
11	323–8	Screw–HH	8
12	87–3450	Plug	2
13	87-9430-03	Spindle–RH	1
*	87-9440-03	Spindle–LH	1
14	87–3580	Retainer	2
15	87–2820	Bracket–Hose	2
16	3296–39	Nut–Lock	8
17	87–2410	Rod–Tie	2
18	3218–21	Nut–Jam	2
19	87–1470	Asm–Rod End, LH Thread (Incl. Ref. # 20–22 & 34)	2
*19	94–3804	Asm–Rod End, LH Thread (Incl. Ref. #21, 22 & 34)	

Ref. No.	Part No.	Description	No. Used
		Heavy Duty (Optional)	2
20	302–5	Fitting–Grease	4
21	3272–12	Pin–Cotter	4
22	32136–3	Nut–Slotted	4
23	3220–11	Nut–Jam	2
24	87-1480-03	Asm–Rod End, RH Thread (Incl. Ref. #20–22 & 34)	2
*	94–3807	Asm–Rod End, RH Thread (Incl. Ref. #21, 22 & 34) Heavy Duty (Optional)	2
25	87–3310	Clip–Brake Cable	2
26	87–3590	Seal–Bearing	2
27	254–106	Cone–Bearing	2
28	254–107	Cup–Bearing	2
29	254–72	Cup–Bearing	2
30	254–94	Cone–Bearing	2
31	232–27	Stem–Valve	2
32	3272–12	Pin–Cotter	2
33	3253–21	Washer–Lock	8
34		Seal–Rod End	4
35	93–0307	Nut–Retainer	2
*	87–5340	Kit–Seal, Tie Rod End (Incl. Ref. #20–22 & 34)	4

*Not Illustrated

PROTOTYPE



T–1596–1

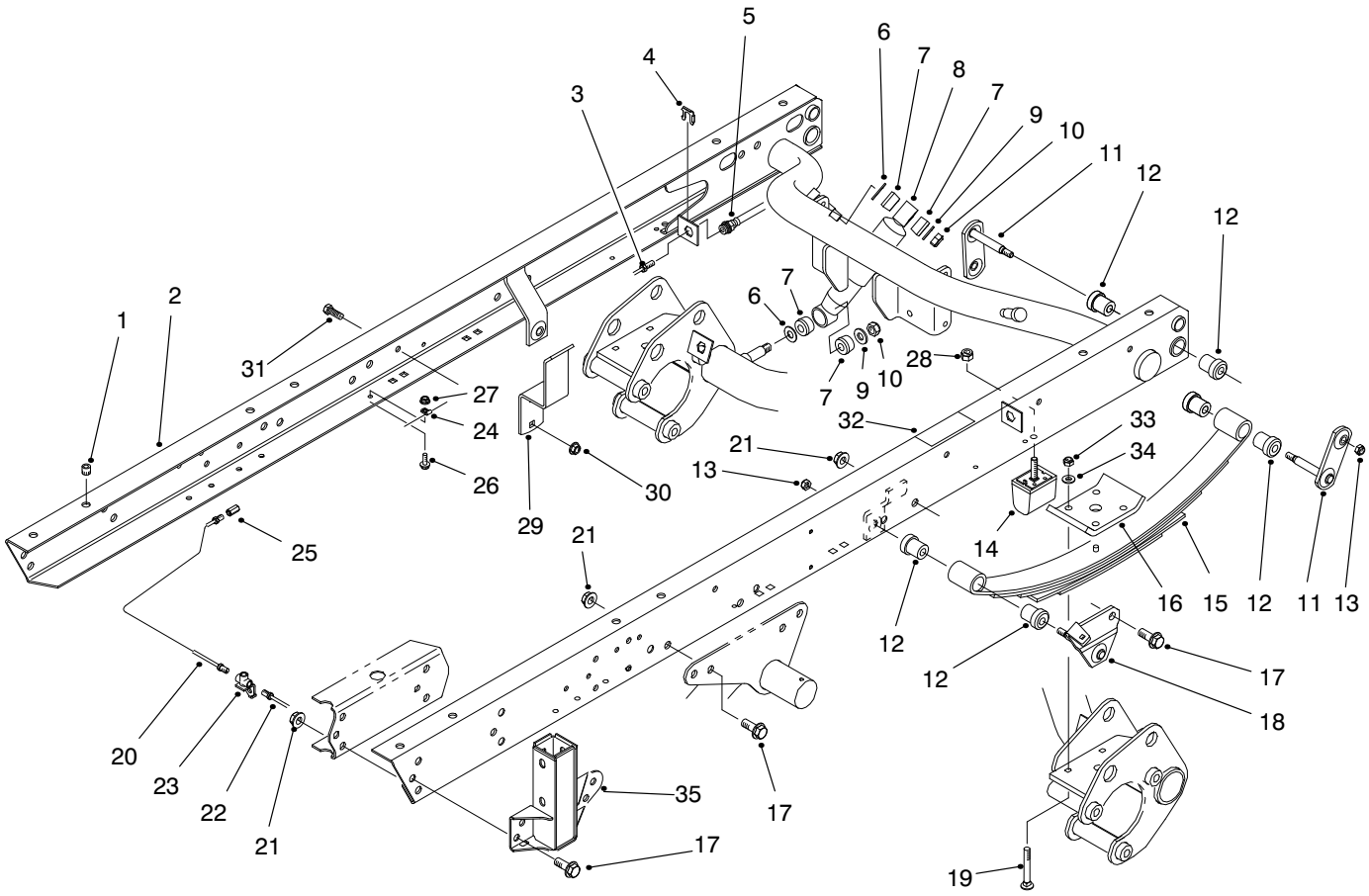
FRONT BRAKE ASM

Ref. No.	Part No.	Description	No. Used
1	92–4135	Set Bolt	2
2	92–4115	Asm–Backplate LH (Incl. Ref. #24)	1
*	92–4116	Asm–Backplate RH (Incl. Ref. #24)	1
3	92–4125	Plug	1
4	92–4113	Screw–Bleed	1
5	92–4114	Cap–Bleed Screw	1
6		Body	1
7		Lever–Operating LH/RH	1
8		Pin	1
9		Spring	1
10		Seal–'L' Type	2
11		Piston	2
12		Cover–Dust	2
13	92–4120	Shoe & Lining Set (Incl. Ref. #7 & 8)	1
14	92–4126	Spring–Shoe, Upper LH	1
*	92–4127	Spring–Shoe, Upper RH	1
15	92–4128	Spring–Shoe, Lower	1
16		Pushrod–Female LH	1
*		Pushrod–Female RH	1
17		Bolt–Adjuster	1
18		Sleeve–Adjuster	1

Ref. No.	Part No.	Description	No. Used
19	92–4123	Asm–Pawl LH (Incl. Ref. #21)	1
*	92–4124	Asm–Pawl RH (Incl. Ref. #21)	1
20	92–4129	Spring–Adjuster, LH	1
*	92–4130	Spring–Adjuster, RH	1
21		Pin–Pawl	1
22	92–4131	Washer–Hold Down	2
23	92–4132	Spring–Hold Down	2
24		Guide–Pipe	1
25	92–4134	Plug–Inspection	1
26	92–4133	Pin–Hold Down	2
*	92–4121	Asm–Adjuster LH (Inc. Ref. #16–18)	1
*	92–4122	Asm–Adjuster RH (Incl. Ref. #16–18)	1
*	92–4117	Asm–Wheel Cylinder LH (Incl. Ref. #4–6 & 9–12)	1
*	92–4118	Asm–Wheel Cylinder RH (Incl. Ref. #4–6 & 9–12)	1
*	92–4119	Kit–Seal (Incl. Ref. #10 & 12)	1
*	87–3010	Asm–Front Brake, RH (Complete)	1
*	87–3020	Asm–Front Brake, LH (Complete)	1

*Not Illustrated

PROTOTYPE



T–1597–1

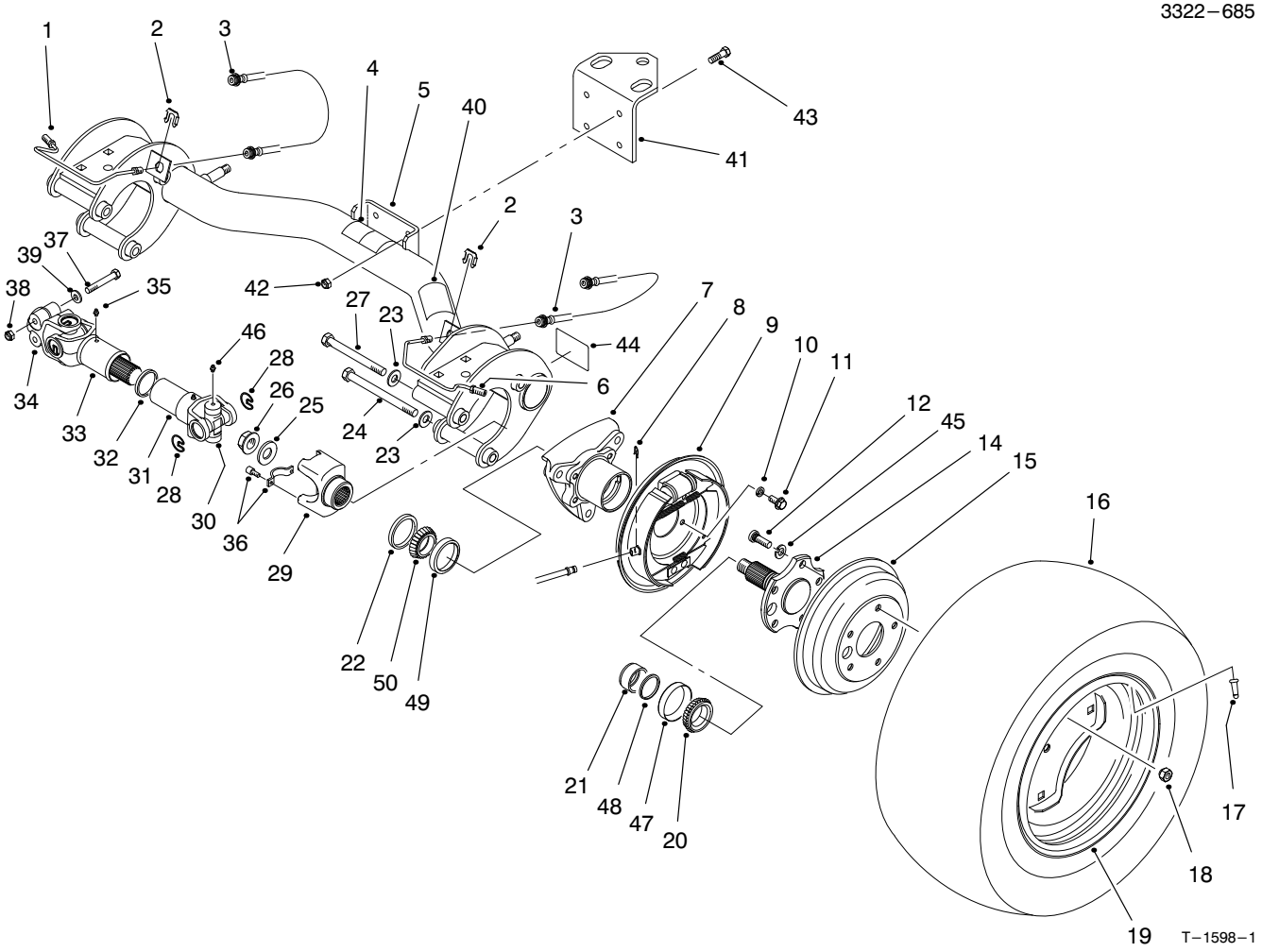
REAR FRAME ASM

Ref. No.	Part No.	Description	No. Used
1	32148–9	Insert–Threaded	8
2	87–8440	Asm–Rear Frame (Incl. Ref. #1 & 32)	1
3	94–3846	Tube–Brake RH	1
*	94–3844	Tube–Brake LH	1
4	87–3580	Retainer	2
5	87–4100	Hose–Brake	2
6	3256–27	Washer–Flat	4
7	87–3920	Bushing–Rubber	8
8	87–3110	Shock Absorber	2
9	3256–6	Washer–Flat	4
10	3296–23	Nut–Lock	4
11	87–3980	Shackle–Spring	4
12	87–4760	Bushing	12
13	3296–39	Nut–Lock	6
14	87–3470	Bumper–Spring	2
15	87–1490	Spring–Leaf	2
16	87-7470-03	Plate–Clamp	2
17	3234–38	Screw–HHF	24
18	87–3960	Mount–Spring LH	1

Ref. No.	Part No.	Description	No. Used
*	87–3940	Mount–Spring RH	1
19	3232–17	Bolt–CARR	8
20	94–3845	Tube–Brake RH	1
21	32128–23	Nut–HFH	24
22	94–3843	Tube–Brake LH	1
23	87–3560	Tee–Brake Tube	1
24	2412–149	Clamp–Tube	4
25	87–3570	Union–Brake Line	1
26	321–4	Screw–HHF	4
27	32128–33	Nut–HFH	4
28	48–9520	Nut–Lock	2
29	87-6690-03	Guard–Induction Chamber	1
30	3290–357	Nut–HFH	2
31	323–6	Screw–HH	2
32	66–6840	Decal–Warning	1
33	3296–76	Nut–Lock	8
34	87–7480	Washer–Flat	8
35	87-6950-03	Receiver–LH	1
*	87-6960-03	Receiver–RH	1

PROTOTYPE

*Not Illustrated



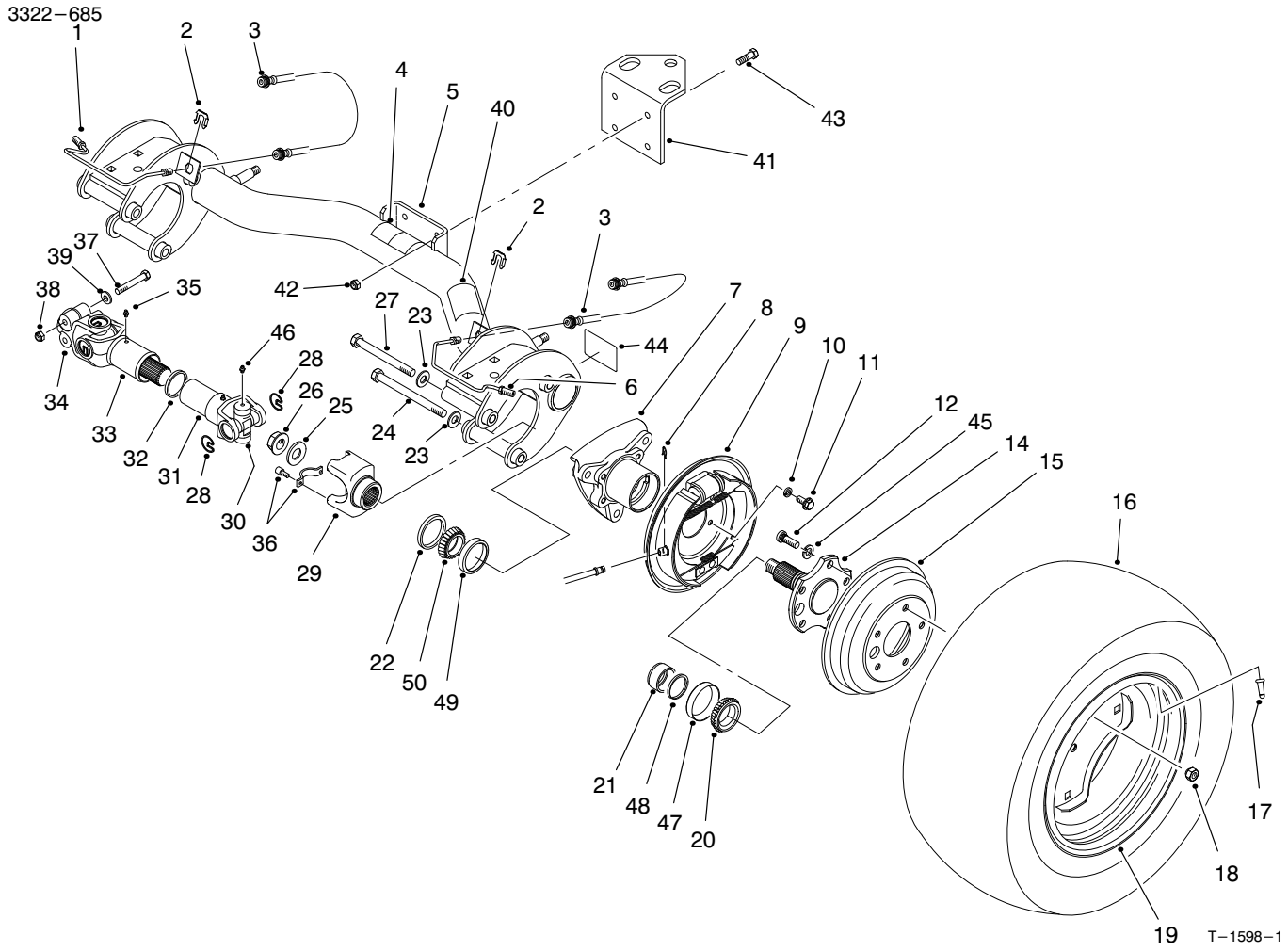
REAR AXLE ASM

Ref. No.	Part No.	Description	No. Used
1	87–4090	Tube–Brake RH	1
2	87–3580	Retainer–Brake Hose	2
3	87–4100	Hose–Brake	2
4	87–6060	Decal–ATF	1
5	87–7110	Asm–Axle, Rear (Incl. Ref. #4, 40 & 44)	1
6	87–4080	Tube–Brake LH	1
7	87-2240-03	Housing–Axle	2
8	87–3310	Clip–Brake Cable	2
9	93–7126	Asm–Brake, LH	1
*	93–7125	Asm–Brake, RH	1
10	3253–21	Washer–Lock	8
11	323–6	Screw–HH	8
12	87–2080	Stud–Drive	10
14	93-7090-03	Stub–Axle	2
15	93–7128	Drum–Brake	2
16	100–4414	Tire–Rear	2
17	232–27	Valve–Stem	2
18	23–7270	Nut–Lug	10
19	100–4415	Rim–Rear	2
†20		Cone–Bearing	1
21	87–4060	Spacer–Bearing	2
22	87–3590	Seal–Bearing	2
23	87–7270	Washer–Flat	6
24	325–20	Screw–HH	5
25	87–3060	Washer–Flat	2
26	32128–53	Nut–HFH	2

Ref. No.	Part No.	Description	No. Used
27	325–19	Screw–HH	1
28	92–4188	Ring–Snap	12
29	92–4190	Yoke–End	2
30	92–4187	Kit–Cross & Bearing	4
31	92–4182	Yoke & Hub	2
32	92–4180	Seal	2
33	92–4179	Yoke, Shaft & Seal Tube	2
34	98–2940	Yoke–Double Clamp	2
35	302–5	Fitting–Grease	4
36	92–4189	Kit–Strap & Bolt	2
37	98–2939	Screw–HH	4
38	32128–36	Nut–Lock	4
39	80–6990	Washer	4
40	87–5990	Decal–PTO	1
41	92-5951-03	Angle–Hitch	1
42	3296–39	Nut–Lock	4
43	323–7	Screw–HH	4
44	87–9080	Decal–Grease	2
45	3253–6	Washer–Lock	10
46	302–58	Fitting–Grease	16
†47		Cup–Bearing	1
†48		Spacer	1
†49		Cup–Bearing	1
†50		Cone–Bearing	1
*51	98–2918	Asm–Driveshaft (Incl. Ref. #28, 30–35 & 46)	2

PROTOTYPE

*Not Illustrated
†Not Serviced Separately



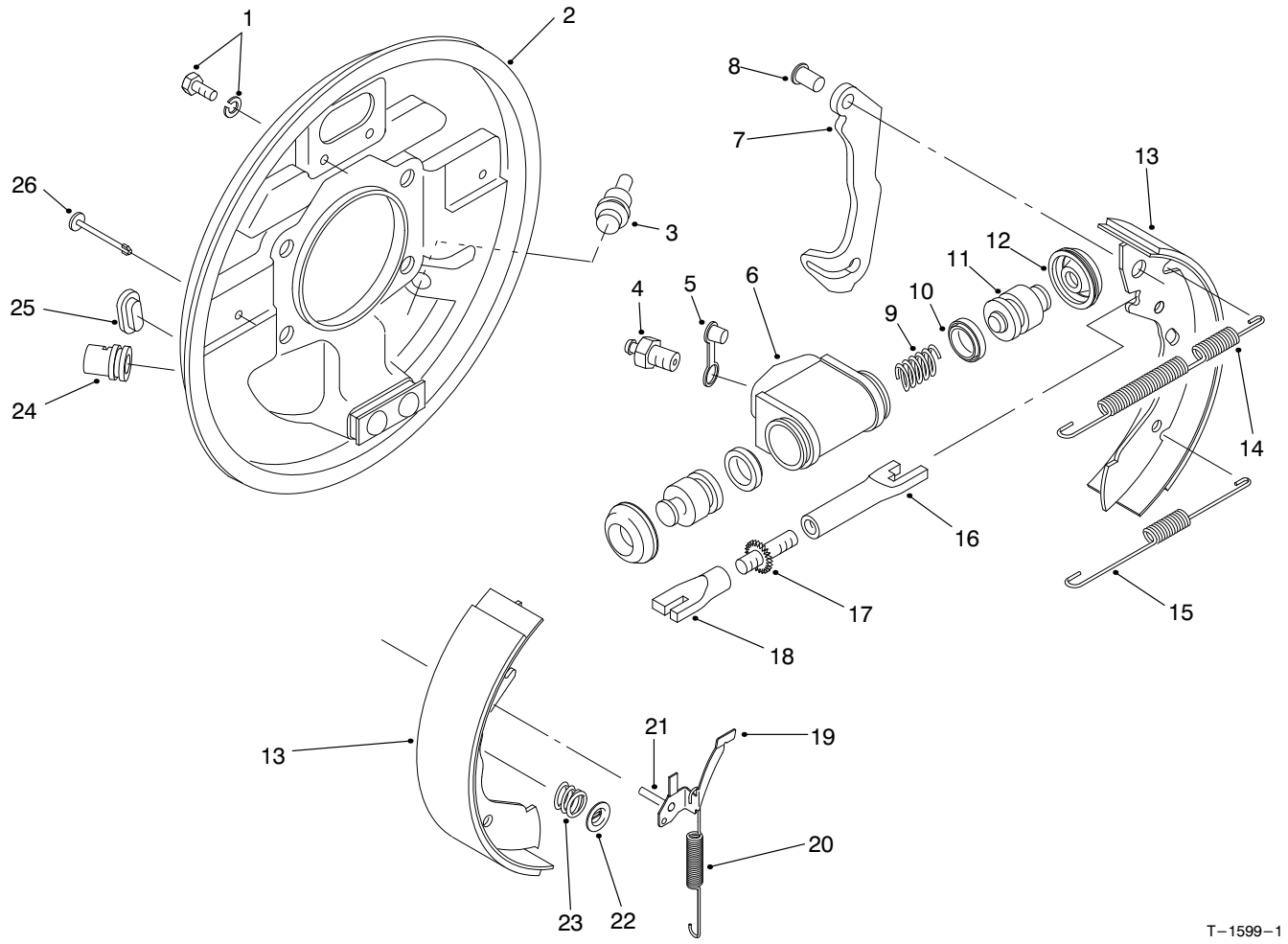
REAR AXLE ASM (Continued)

Ref. No.	Part No.	Description	No. Used
*	99–9429	Asm–Rear Tire & Wheel	2
*	87–1970	Bearing–Matched Set Use 1 set per wheel (Incl. Ref. #20 & 47–50)	2
*	98–2969	1/2 Yoke Kit (Incl. Ref. #29 & 36)	2

Ref. No.	Part No.	Description	No. Used
*	98–2967	Driveshaft Assembly Kit (Incl. Ref. #37 & 51)	2
*	98–2968	Yoke Kit (Incl. Ref. #34 & 37)	2

PROTOTYPE

*Not Illustrated
†Not Serviced Separately



T–1599–1

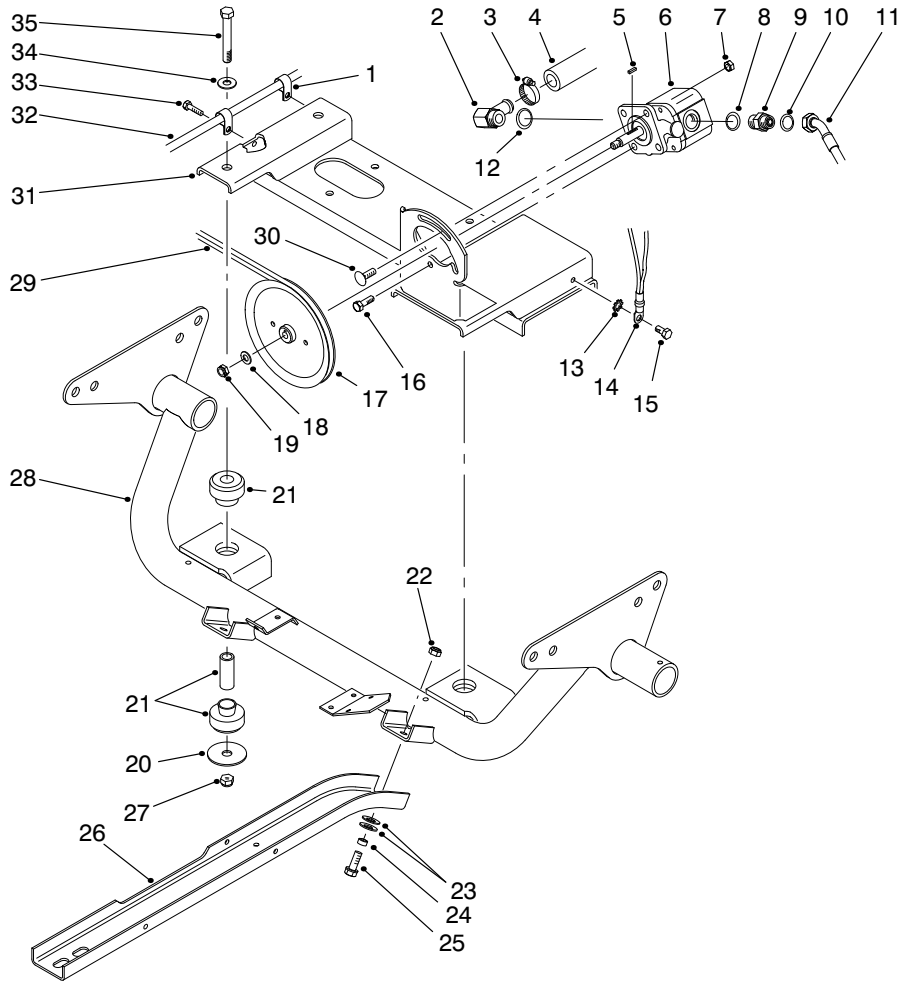
REAR BRAKE ASM

Ref. No.	Part No.	Description	No. Used
1	92–4135	Set Bolt	2
2	92–4136	Asm–Backplate, LH (Incl. Ref. #24)	1
*	92–4100	Asm–Backplate, RH (Incl. Ref. #24)	1
3	92–4146	Plug	1
4	92–4137	Screw–Bleed	1
5	92–4114	Cap–Bleed Screw	1
6		Body	1
7		Lever–Operating LH/RH	1
8		Pin	1
9		Spring	1
10		Seal–'L' Type	2
11		Piston	2
12		Cover–Dust	2
13	92–4143	Shoe & Lining Set (Incl. Ref. #7 & 8)	1
14	92–4147	Spring–Shoe, Upper LH	1
*	92–4148	Spring–Shoe, Upper RH	1
15	92–4149	Spring–Shoe, Lower	1
16		Pushrod–Female LH	1
*		Pushrod–Female RH	1
17		Bolt–Adjuster	1
18		Sleeve–Adjuster	1

Ref. No.	Part No.	Description	No. Used
19	92–4123	Asm–Pawl, LH (Incl. Ref. #21)	1
*	92–4124	Asm–Pawl, RH (Incl. Ref. #21)	1
20	92–4150	Spring–Adjuster, LH	1
*	92–4151	Spring–Adjuster, RH	1
21		Pin–Pawl	1
22	92–4131	Washer–Hold Down	2
23	92–4152	Spring–Hold Down	2
24		Guide–Pipe	1
25	92–4134	Plug–Inspection	1
26	92–4133	Pin–Hold Down	2
*	92–4144	Asm–Adjuster, LH (Inc. Ref. #16–18)	1
*	92–4145	Asm–Adjuster, RH (Incl. Ref. #16–18)	1
*	92–4140	Asm–Wheel Cylinder, LH (Incl. Ref. #4–6 & 9–12)	1
*	92–4141	Asm–Wheel Cylinder, RH (Incl. Ref. #4–6 & 9–12)	1
*	92–4142	Kit–Seal (Incl. Ref. #10 & 12)	1
*	93–7125	Asm–Rear Brake, RH (Complete)	1
*	93–7126	Asm–Rear Brake, LH (Complete)	1

PROTOTYPE

*Not Illustrated



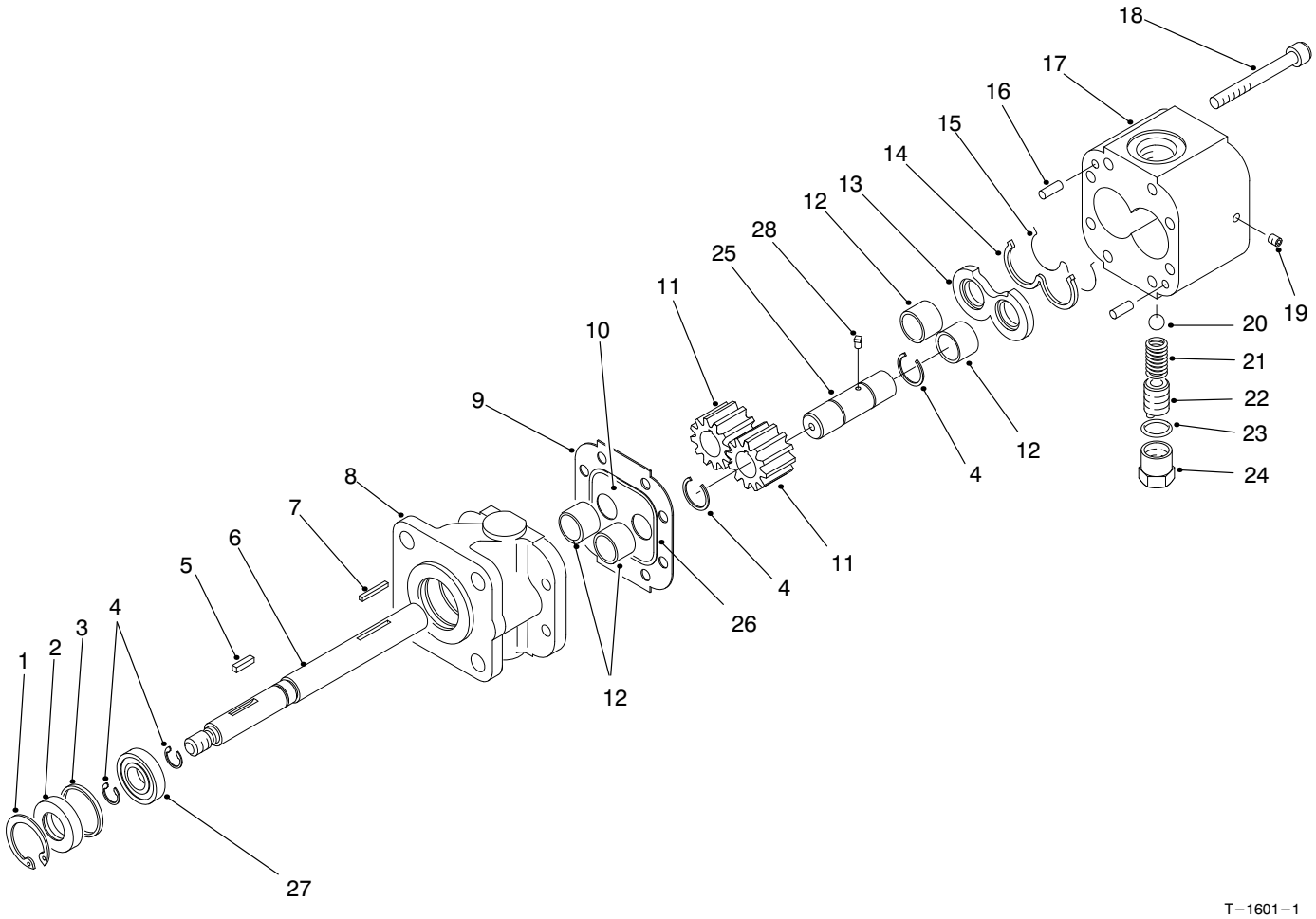
T−1735−1

ENGINE FRAME & HYDRAULIC PUMP DRIVE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	2412−89	Clamp − R	2
2	87−8170	Fitting − Hydraulic 90° (Incl. Ref. #12)	1
3	2412−34	Clamp − Hose	1
4	87−8030	Hose − Hydraulic	1
5	92−2179	Key − Square	1
6	99−1054	Hydraulic Pump Assembly (Incl. Ref. #5)	1
7	3296−29	Nut − Lock	2
8	237−79	Seal − O−Ring	1
9	340−3	Fitting − Hydraulic Straight (Incl. Ref. #8 & 10)	1
10	237−22	Seal − O−Ring	1
11	99−9442	Hose − Hydraulic	1
12	237−80	Seal − O−Ring	1
13	3255−8	Washer − Lock ETLW	1
14	87−3080	Cable − Battery Negative	1
15	32144−14	Screw − Self Tapping	1
16	322−5	Screw − Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
17	87−7740	Pulley	1
18	3256−45	Washer − Flat	1
19	3296−5	Nut − Lock	1
20	87−5100	Washer − Snubbing	2
21	87−4970	Engine Mount Assembly	2
22	3296−39	Nut − Lock	6
23	3290−413	Washer − Belleville	12
24	76−9100	Spacer	6
25	3234−11	Screw − Cap Hex. Hd.	6
26	87-4730-03	Guard − Belly	2
27	3296−48	Nut − Lock	2
28	93−7095	Support − Engine	1
29	87−8370	Belt − V	1
30	3230−22	Bolt − Carriage	1
31	87-6400-03	Frame − Engine	1
32	87−8240	Cable − Parking Brake	2
33	32144−10	Screw − Self Tapping	2
34	3256−25	Washer − Flat	2
35	324−12	Screw − Cap Hex. Hd.	2

PROTOTYPE



T–1601–1

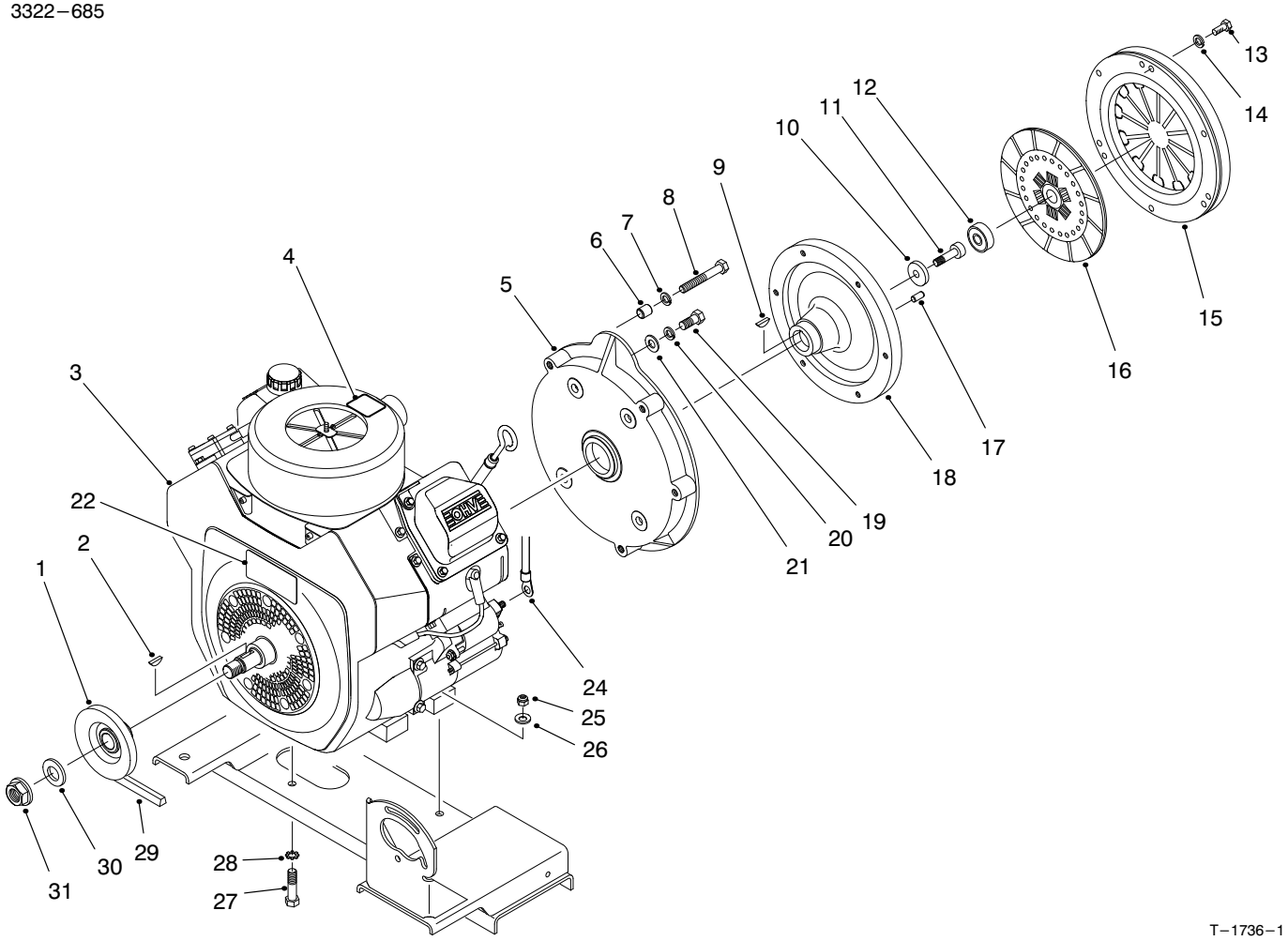
HYDRAULIC PUMP ASM NO. 99–1054

Ref. No.	Part No.	Description	No. Used
1	32151–41	Ring–Retaining	1
2	92–2195	Seal–Oil	1
3	92–2186	Spacer	1
4	92–2178	Ring–Crescent	4
5	92–2179	Key–Square	1
6	92–2189	Shaft–Drive	1
7	92–2177	Pin–Shear	1
†8		Stator	1
9	92–2182	Plate–Seal	1
10	92–2183	Plate–Wear	1
11	92–2175	Gear	2
12	92–2192	Bearing	4
13	92–2181	Plate–Pressure	1
14	92–2197	Seal–Back Up	1

Ref. No.	Part No.	Description	No. Used
15	92–2196	Seal–Pressure Plate	1
16	92–2176	Pin–Dowel	2
17	92–2187	Housing–Gear, End	1
18	92–2173	Screw–Cap Socket Head	8
19	92–2185	Plug	1
20	92–2193	Ball	1
21	99–1060	Spring	1
22	92–2174	Screw–Adjusting	1
23	92–2180	Gasket–Copper	1
24	92–2184	Cap–Relief Valve	1
25	92–2190	Shaft–Idler	1
26	92–2198	Seal	1
27	92–2191	Bearing	1
28	92–2199	Key–Ball	1

PROTOTYPE

†Not Serviced Separately.

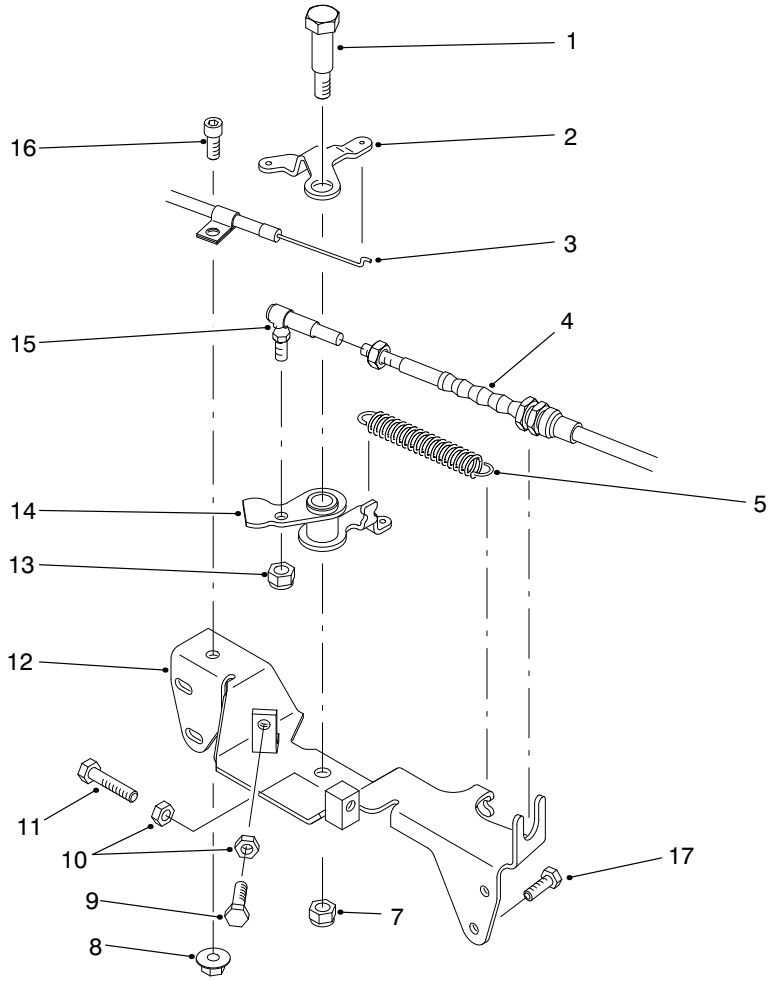


ENGINE INSTALLATION ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	87-7710-03	Pulley	1
2	3257−7	Key − Woodruff	1
3	87−7900	Engine Assembly	1
4	87−8770	Decal − Air Cleaner	1
5	87-6390-01	Adapter − Clutch	1
6	92−2152	Bushing − Dowel	2
7	3253−22	Washer − Lock	4
8	56−2150	Screw − Cap Hex. Hd.	4
9	3257−5	Key − Woodruff	1
10	87−6080	Washer	1
11	3274−1	Screw − Hex. Socket Hd.	1
12	87−6460	Bearing − Pilot	1
13	33114−016	Screw − Cap Hex. Hd.	6
14	3253−4	Washer − Lock	6
15	98−2558	Cover − Clutch	1

Ref. No.	Part No.	Description	No. Used
16	98−2559	Disk − Clutch	1
17	42−7160	Pin − Dowel	3
18	87−6480	Flywheel	1
19	324−4	Screw − Cap Hex. Hd.	4
20	3253−6	Washer − Lock	4
21	3256−25	Washer − Flat	4
22	80−8040	Decal − Warning	1
24	87−8000	Cable − Battery Positive	1
25	3296−39	Nut − Lock	4
26	3256−24	Washer − Flat	4
27	323−9	Screw − Cap Hex. Hd.	4
28	3255−9	Washer − Lock	1
29	87−8370	Belt − V	1
30	3256−28	Washer − Flat	1
31	3296−15	Nut − Lock	1

PROTOTYPE



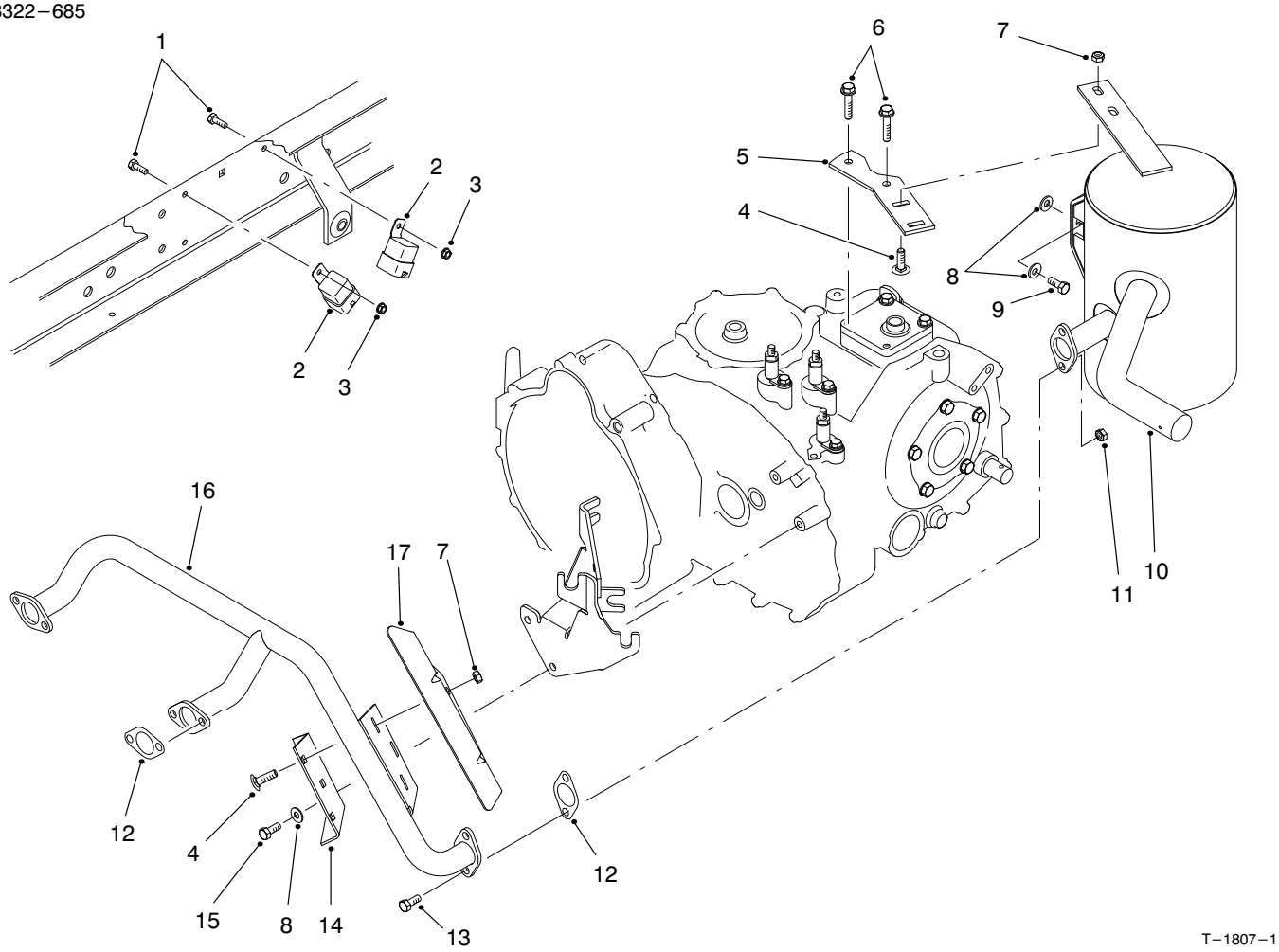
T−1802−2

THROTTLE LINKAGE ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	7−0030	Bolt − Shoulder	1
2	87−7790	Lever − Choke	1
3	87−8060	Cable − Choke	1
4	94−3834	Cable − Accelerator	1
5	67−1450	Spring − Extension	1
7	3296−29	Nut − Lock	1
8	32128−33	Nut − Flange Lock	1
9	329−6	Screw − Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
10	3220−1	Nut − Jam	2
11	329−7	Screw − Cap Hex. Hd.	1
12	87-7780-03	Bracket − Throttle	1
13	3296−3	Nut − Lock	1
14	87−7800	Lever − Throttle	1
15	18−1720	Joint − Ball	1
16	3274−15	Screw − Hex. Socket Hd.	1
17	32144−4	Screw − HH	2

PROTOTYPE

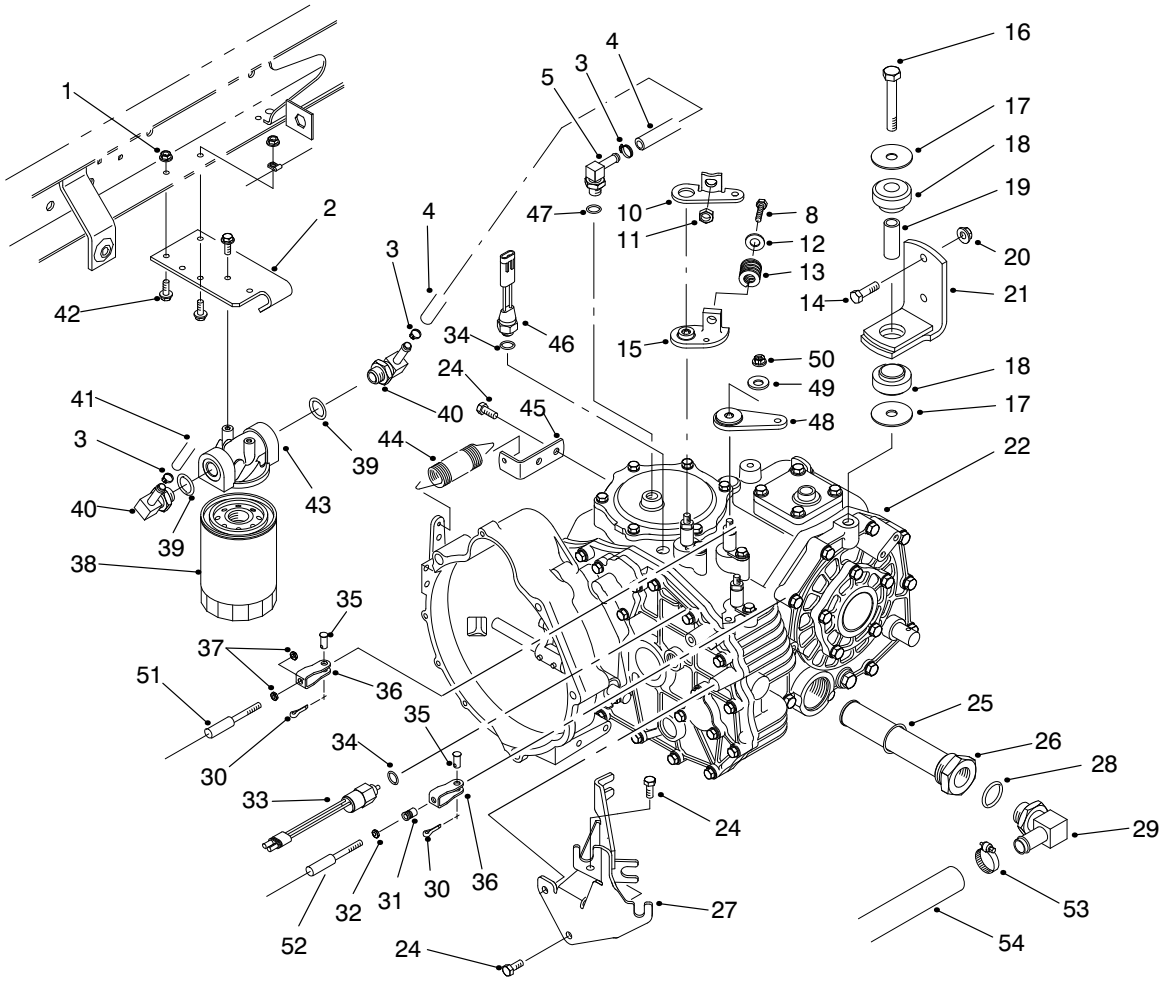


MUFFLER & RELAY ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	321−4	Screw − Cap Hex. Hd.	2
2	70−1480	Relay	2
3	32128−33	Nut − Flange Lock	2
4	3230−2	Bolt − Carriage	5
5	87−8680	Plate − Muffler Mount	1
6	33114−030	Screw − Cap Hex. Hd.	2
7	32128−20	Nut − Flange Lock	5
8	87−8640	Washer − Flat	4
9	33114−020	Screw − Cap Hex. Hd.	1

Ref. No.	Part No.	Description	No. Used
10	87−7840	Muffler − Exhaust	1
11	32128−25	Nut − Lock	2
12	87−8650	Gasket − Muffler	3
13	322−4	Screw − Cap Hex. Hd.	2
14	87−7980	Bracket − Muffler	1
15	33114−025	Screw − Cap Hex. Hd.	2
16	87−7850	Manifold − Exhaust	1
17	87−7860	Shield − Heat	1

PROTOTYPE



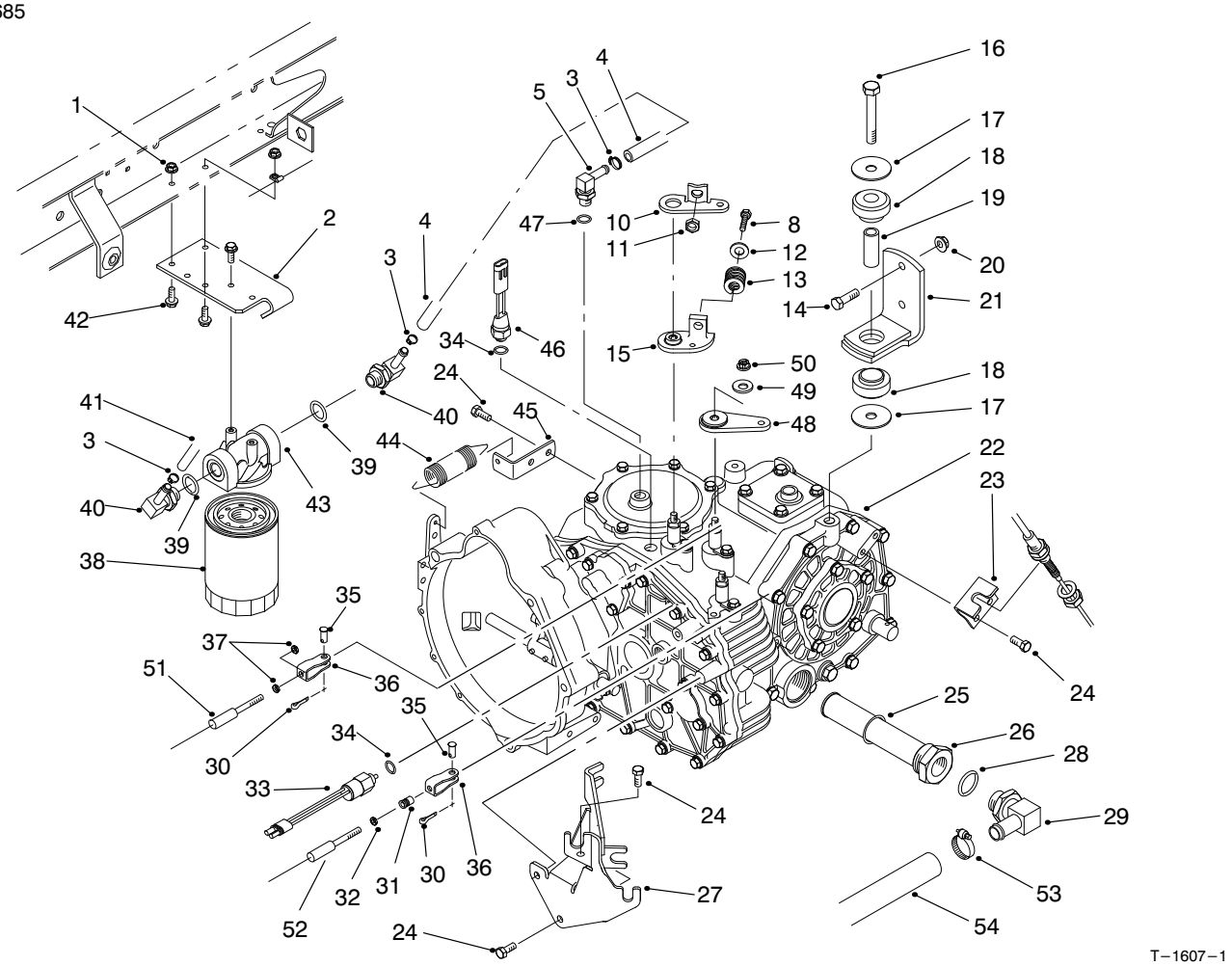
T−1607−1

TRANSAXLE INSTALLATION ASM

Ref. No.	Part No.	Description	No. Used
1	32128−33	Nut−HFH	1
2	87-7040-03	Bracket−Oil Filter	1
3	2412−36	Clamp−Hose	3
4	87−5730	Hose−Hydraulic	1
5	354−135	Fitting−Hydraulic 90˚ (Incl. Ref. #47)	1
8	323−10	Screw−HH	1
10	87−8250	Plate−Shift Arm	1
11	32128−21	Nut−Lock	1
12	3256−4	Washer−Flat	1
13	87−6910	Spring−Compression	1
14	323−7	Screw−HH	4
15	87−7970	Arm−Shift	1
16	3215−1	Screw−HH	2
17	87−5100	Washer	4
18	87−4970	Asm−Transaxle Mount (Incl. Ref. #19)	2
19		Spacer−Mount	2
20	3296−39	Nut−HFH	4
21	87-5800-03	Bracket−Mount	2
22	87−9250	Asm−Transaxle	1
24	33114−020	Screw−HH	3
25	237−123	O−Ring	1
26	87−3990	Asm−Oil Strainer (Incl. Ref. #25)	1
27	87-4820-03	Bracket−Cable	1

Ref. No.	Part No.	Description	No. Used
28	237−81	O−Ring	1
29	353−987	Fitting−Hydraulic 90˚ (Incl. Ref. #28)	1
30	3272−6	Pin−Cotter	3
31	32148−15	Nut−Clinch	1
32	3219−14	Nut−Jam	1
33	87−6710	Switch−Supervisor	1
34	237−30	O−Ring	2
35	283−62	Pin−Clevis	3
36	87−2310	Clevis−Cable	2
37	3220−1	Nut−Jam	4
38	54−0110	Element−Oil Filter	1
39	237−79	O−Ring	2
40	354−134	Fitting−Hydraulic 90˚ (Incl. Ref. #39)	2
41	99−1058	Hose−Hydraulic	1
42	3234−4	Screw−HFH	4
43	87−8780	Head−Oil Filter	1
44	68−9950	Spring−Extension	1
45	87−7170	Bracket−Clutch Spring	1
46	72−4310	Switch−Ball N.C.	1
47	237−42	O−Ring	1
48	87−7960	Lever−Shift Arm	2
49	80−6990	Washer−Flat	3
50	48−9520	Nut−Lock	3

PROTOTYPE



T−1607−1

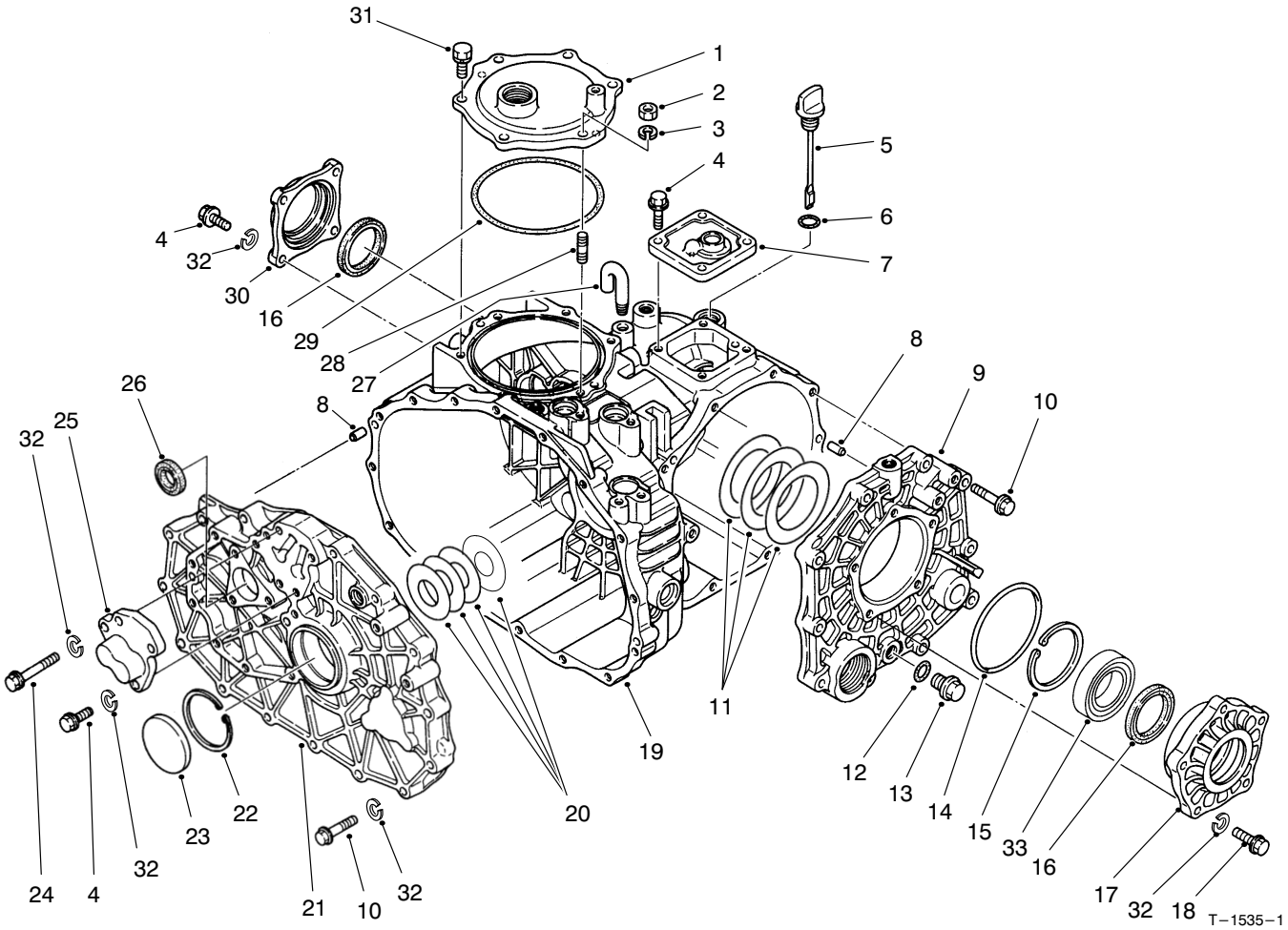
TRANSAXLE INSTALLATION ASM (Continued)

Ref. No.	Part No.	Description	No. Used
51	93−7105	Asm−Shift Cable (Incl. Ref. #37)	2
52	93−7106	Asm−Hi−Lo Cable (Incl. Ref. #32)	1
53	2412−34	Clamp−Hose	1

Ref. No.	Part No.	Description	No. Used
54	87−3670	Hose−Hydraulic	1
*	87−7160	Asm−Cable Clevis (Incl. Ref. #31)	1

PROTOTYPE

*Not Illustrated

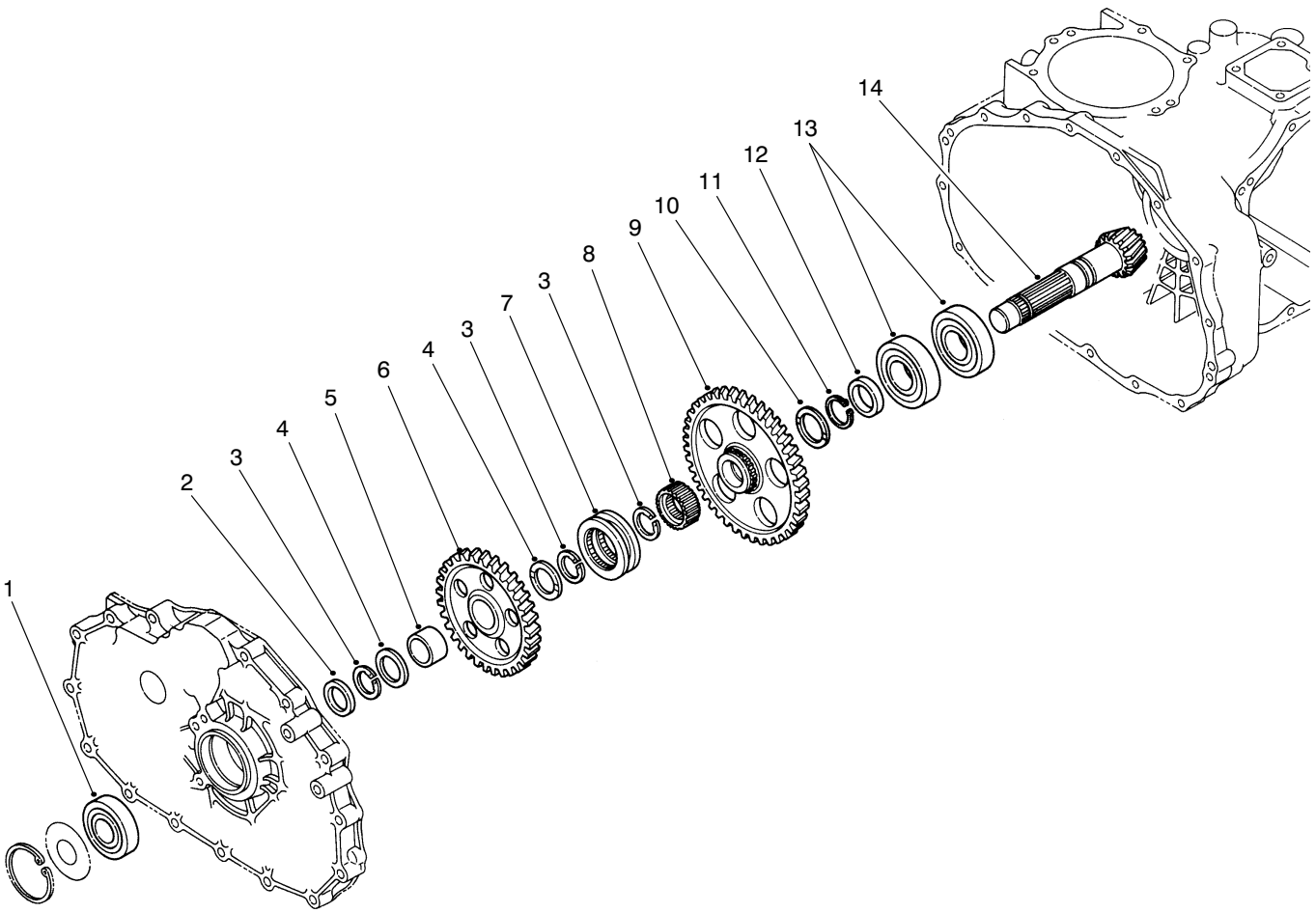


TRANSAXLE CASE ASM

Ref. No.	Part No.	Description	No. Used
1	92–0656	Cover–Power Take Off	1
2	48–7930	Nut–Hex.	1
3	92–0762	Washer–Lock	1
4	60–6750	Screw–HH	11
5	92–0662	Cap–Oil	1
6	92–0788	O–Ring	1
7	92–0652	Cover–Upper	1
8	92–0765	Pin–Alignment	4
9	92–0653	Cover–Side	1
10	42–9530	Screw–HH	25
11	92–0809	Shim Set	1
12		O–Ring	1
13	92–0773	Asm–Drain Plug (Incl. Ref. #12)	1
14	92–0789	O–Ring	1
15	92–0760	Ring–Retaining	1
16	92–0793	Seal–Oil	2

Ref. No.	Part No.	Description	No. Used
17	92–0654	Carrier–Differential	1
18	48–7730	Screw–HH	5
19	92–0651	Case–Transaxle	1
20	92–0808	Shim Set	1
21	92–0657	Plate–Center	1
22	92–0759	Ring–Retaining	1
23	92–0807	Cap–Sealing	1
24	48–7560	Screw–HH	1
25	92–0706	Cap–Fork Shaft	1
26	92–0791	Seal–Oil	1
27	92–0743	Breather–Air	1
28	92–0804	Stud	1
29	92–0790	O–Ring	1
30	92–0655	Cover–Seal	1
31	92–0796	Screw–HH	5
32	42–9850	Washer–Lock	42
33	92–0775	Bearing–Ball	2

PROTOTYPE



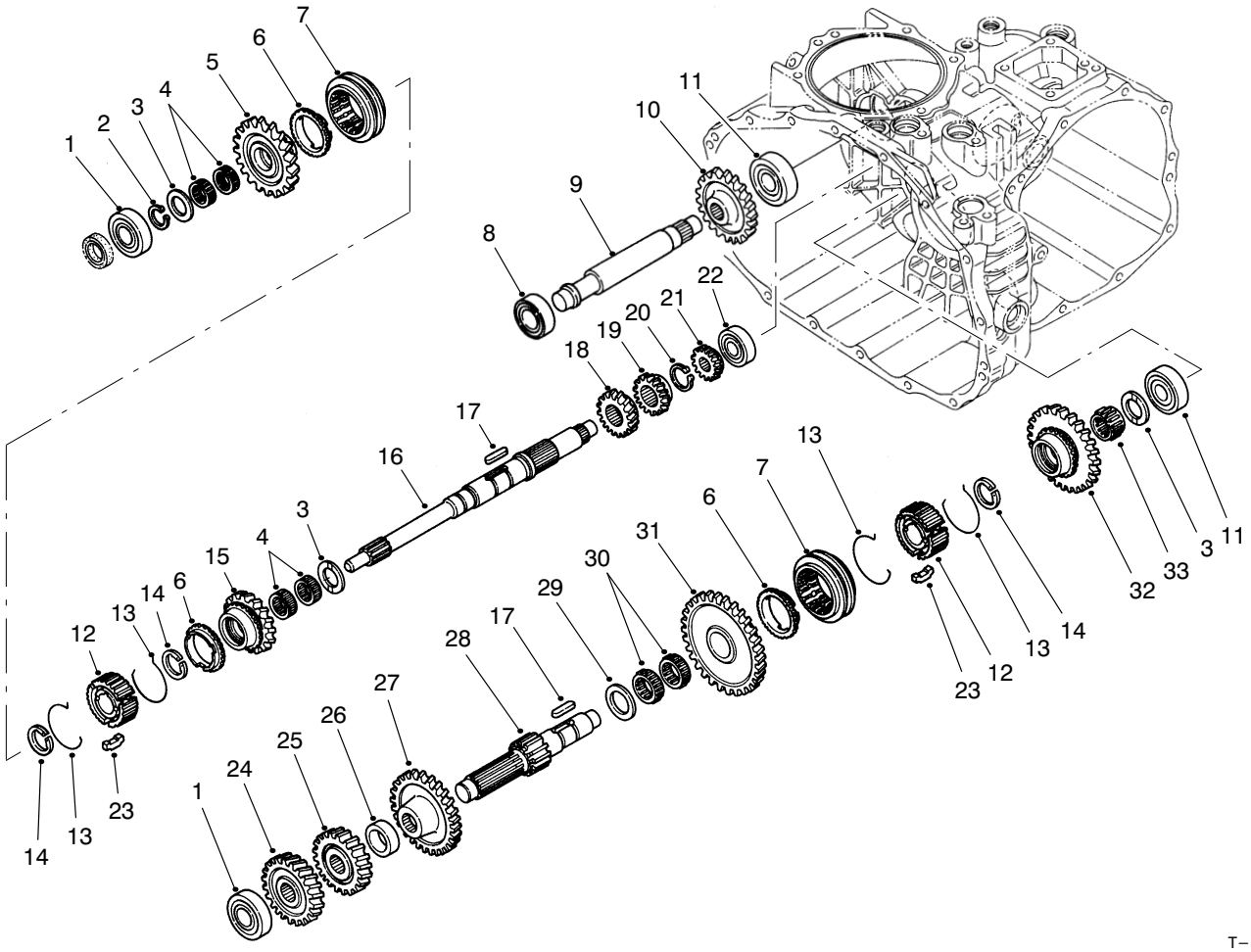
T–1536–1

COUNTERSHAFT ASM

Ref. No.	Part No.	Description	No. Used
1	92–0712	Bearing–Ball	1
2	92–0716	Collar	1
3	92–0764	Ring–Retaining	3
4	92–0711	Washer–Thrust	2
5	92–0783	Sleeve–Inner	1
6	92–0715	Gear–49T	1
7	92–0718	Shifter–Hi–Lo	1
8	92–0719	Collar–Spline	1

Ref. No.	Part No.	Description	No. Used
9	92–0717	Gear–71T	1
10	92–0741	Washer–Thrust	1
11	92–0755	Ring–Retaining	1
12	92–0713	Collar	1
13	92–0714	Bearing–Ball	2
14	92–0710	Asm–Counter Shaft (Incl. Ring Gear)	1

PROTOTYPE



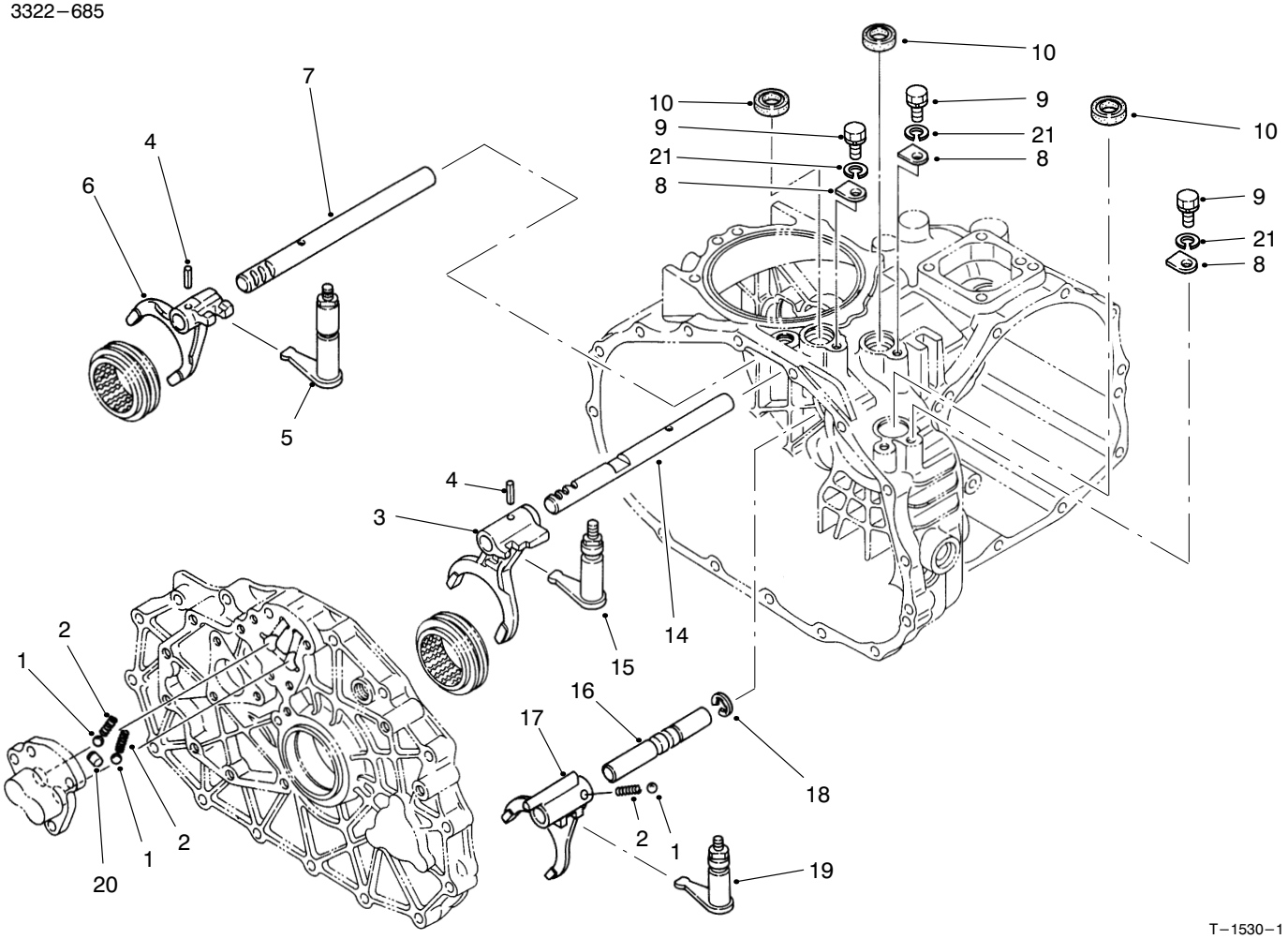
T–1533–1

TRANSAXLE GEAR SHAFTS ASM

Ref. No.	Part No.	Description	No. Used
1	251–8	Bearing–Ball	2
2	92–0753	Ring–Retaining	1
3	92–0740	Washer–Thrust	3
4	92–0781	Bearing–Needle	4
5	92–0820	Gear–27T	1
6	92–0667	Ring–Synchro	3
7	92–0668	Shifter–Synchro	2
8	251–346	Bearing–Ball	1
9	92–0824	Shaft–Reverse Idler	1
10	92–0684	Gear–33T	1
11	92–0778	Bearing–Ball	2
12	92–0664	Hub–Synchro	2
13	92–0666	Spring–Synchro	4
14	92–0763	Ring–Retaining	3
15	92–0821	Gear–24T	1
16	92–0663	Shaft–Main	1
17	92–0772	Key	2

Ref. No.	Part No.	Description	No. Used
18	92–0687	Gear–16T	1
19	92–0672	Gear–18T	1
20	92–0754	Ring–Retaining	1
21	92–0673	Gear–14T	1
22	92–0650	Bearing–Ball	1
23	92–0665	Key–Synchro	6
24	92–0822	Gear–28T	1
25	92–0679	Gear–23T	1
26	92–0680	Collar	1
27	92–0823	Gear–43T	1
28	92–0674	Shaft–Reduction	1
29	92–0682	Washer–Thrust	1
30	92–0681	Bearing–Needle	2
31	92–0677	Gear–49T	1
32	92–0819	Gear–40T	1
33	92–0782	Bearing–Needle	1

PROTOTYPE



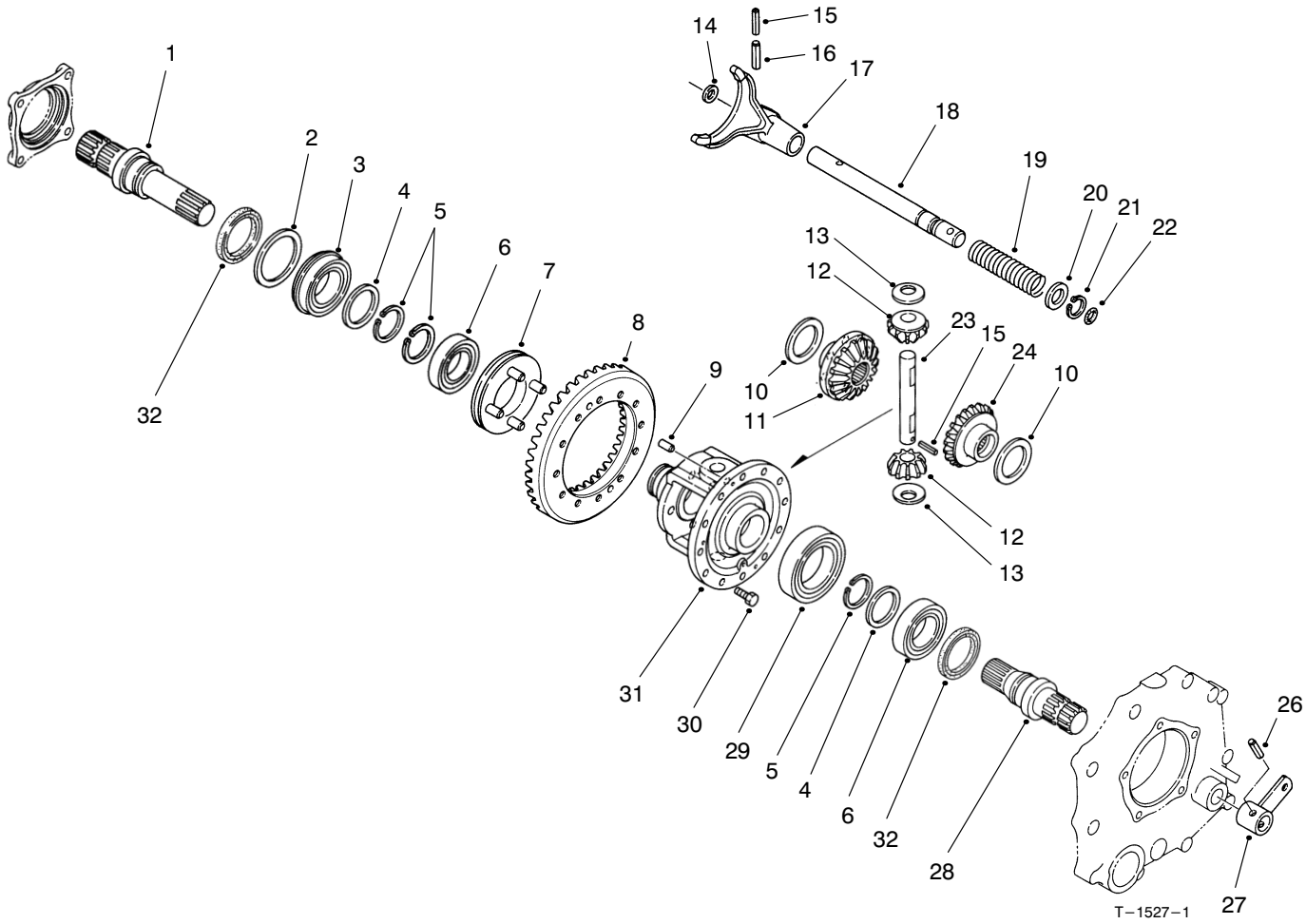
T−1530−1

SHIFT FORK ASM

Ref. No.	Part No.	Description	No. Used
1	92−0785	Ball	3
2	92−0731	Spring−Compression	3
3	92−0700	Fork−Shift R−1	1
4	92−0769	Pin−Spring	2
5	92−0817	Arm−Shift Fork 2−3	1
6	92−0701	Fork−Shift 2−3	1
7	92−0699	Shaft−Fork 2−3	1
8	92−0732	Plate−Keeper	3
9	48−7700	Screw−HH	3

Ref. No.	Part No.	Description	No. Used
10	92−0729	Seal−Oil	3
14	92−0698	Shaft−Fork R−1	1
15	92−0816	Arm−Shift Fork R−1	1
16	92−0708	Shaft−Fork Hi−Lo	1
17	92−0709	Fork−Shift Hi−Lo	1
18	92−0761	Ring−Retaining	1
19	92−0818	Arm−Shift Fork Hi−Lo	1
20	92−0705	Lock−Spindle	1
21	42−9850	Washer−Lock	3

PROTOTYPE



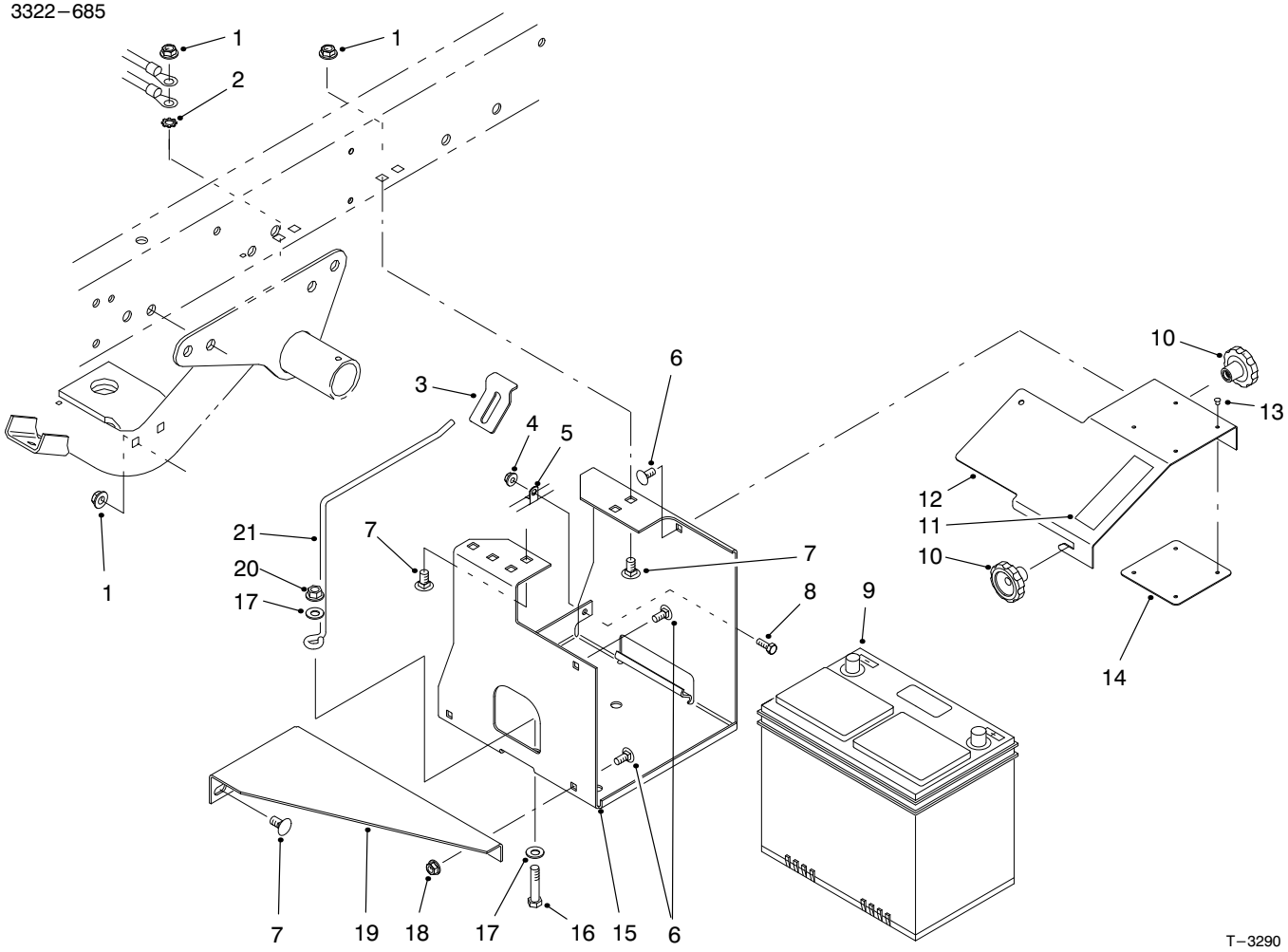
DIFFERENTIAL GEAR ASM

Ref. No.	Part No.	Description	No. Used
1	92–0726	Shaft–Axle R.H.	1
2	92–0728	Washer	1
3	92–0780	Bearing–Ball	1
4	92–0727	Washer	2
5	92–0756	Ring–Retaining	3
6	92–0775	Bearing–Ball	2
7	92–0730	Slider–Differential Lock	1
8	92–0710	Asm–Ring Gear (Incl. Counter Shaft)	1
9	92–0765	Pin–Alignment	2
10	92–0747	Washer–Thrust	2
11	92–0746	Gear–Side R.H.	1
12	92–0748	Gear–Pinion	2
13	92–0750	Washer	2
14	92–0744	Washer	1
15	92–0768	Pin–Spring	2

Ref. No.	Part No.	Description	No. Used
16	92–0771	Pin–Spring	1
17	92–0721	Fork–Differential Lock	1
18	92–0722	Shaft–Lock Fork	1
19	92–0723	Spring–Compression	1
20	92–0733	Washer	1
21	92–0753	Ring–Retaining	1
22	92–0787	O–Ring	1
23	92–0749	Shaft–Pinion	1
24	92–0745	Gear–Side L.H.	1
26	92–0770	Pin–Spring	1
27	92–0724	Arm–Differential Lock	1
28	92–0725	Shaft–Axle L.H.	1
29	92–0776	Bearing–Ball	1
30	92–0803	Screw–HHF	12
31	92–0720	Case–Differential	1
32	92–0793	Seal–Oil	2

PROTOTYPE

3322–685

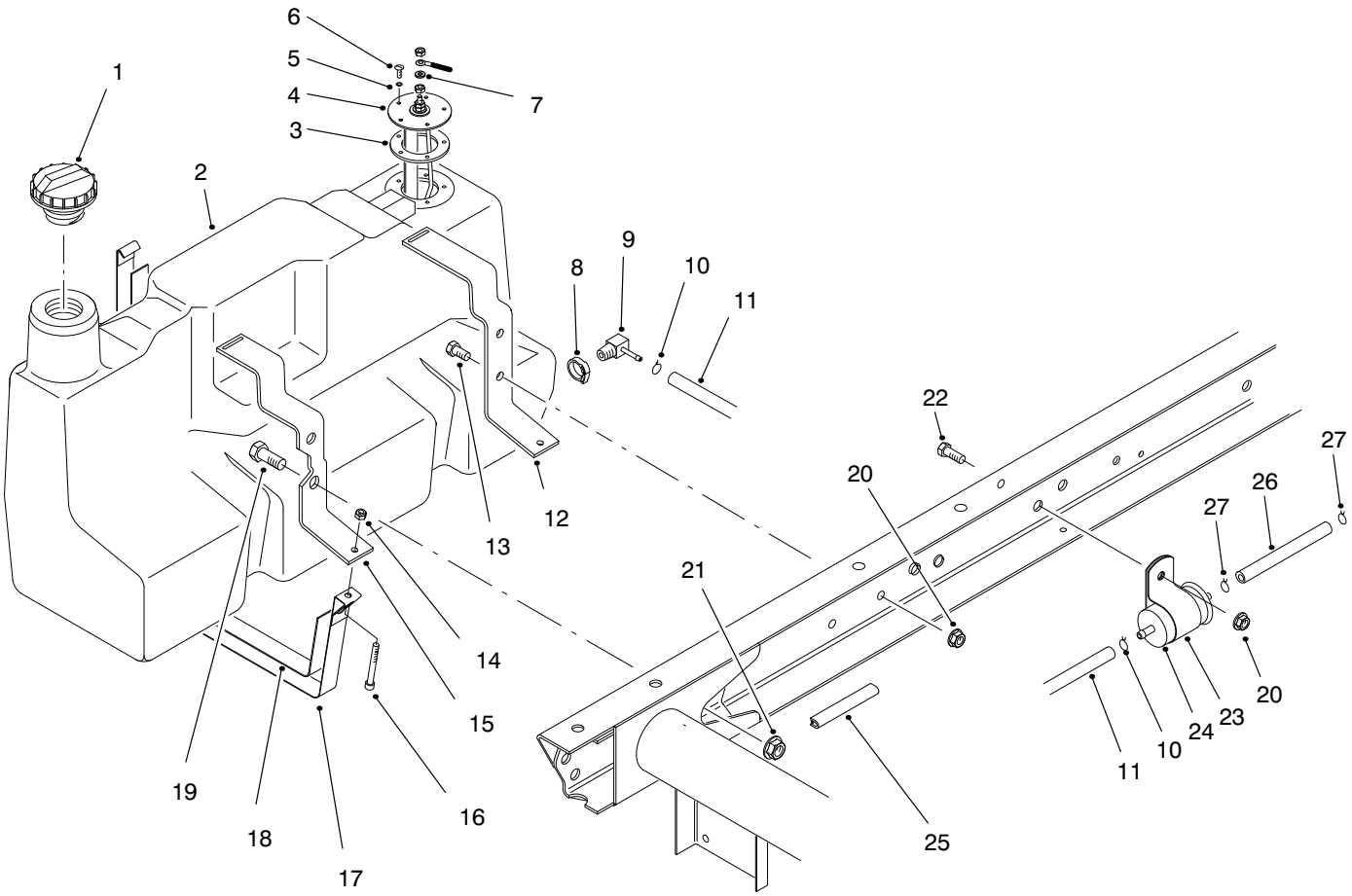


BATTERY MOUNT ASM

Ref. No.	Part No.	Description	No. Used
1	3290–357	Nut–HFH	6
2	3255–9	Washer–Lock ETLW	1
3	87–7610	Tab–Battery Support	1
4	32128–33	Nut–HFH	1
5	2412–89	Clamp–R	1
6	3230–23	Bolt–CARR	4
7	3231–21	Bolt–CARR	6
8	321–4	Screw–HH	1
9	55–7290	Battery	1
10	19–4050	Knob	2
11	36–3400	Decal–No Step	1

Ref. No.	Part No.	Description	No. Used
12	87-5130-03	Cover–Battery Base	1
13	3296–27	Rivet–Plastic	4
14	87–7620	Shield–Plastic	1
15	87-5120-03	Bracket–Battery Base	1
16	323–9	Screw–HH	1
17	3256–24	Washer–Flat	2
18	32128–20	Nut–HFH	2
19	87-5110-03	Support–Lower	1
20	3296–39	Nut–HFH	1
21	87–7600	Rod–Battery Support	1

PROTOTYPE



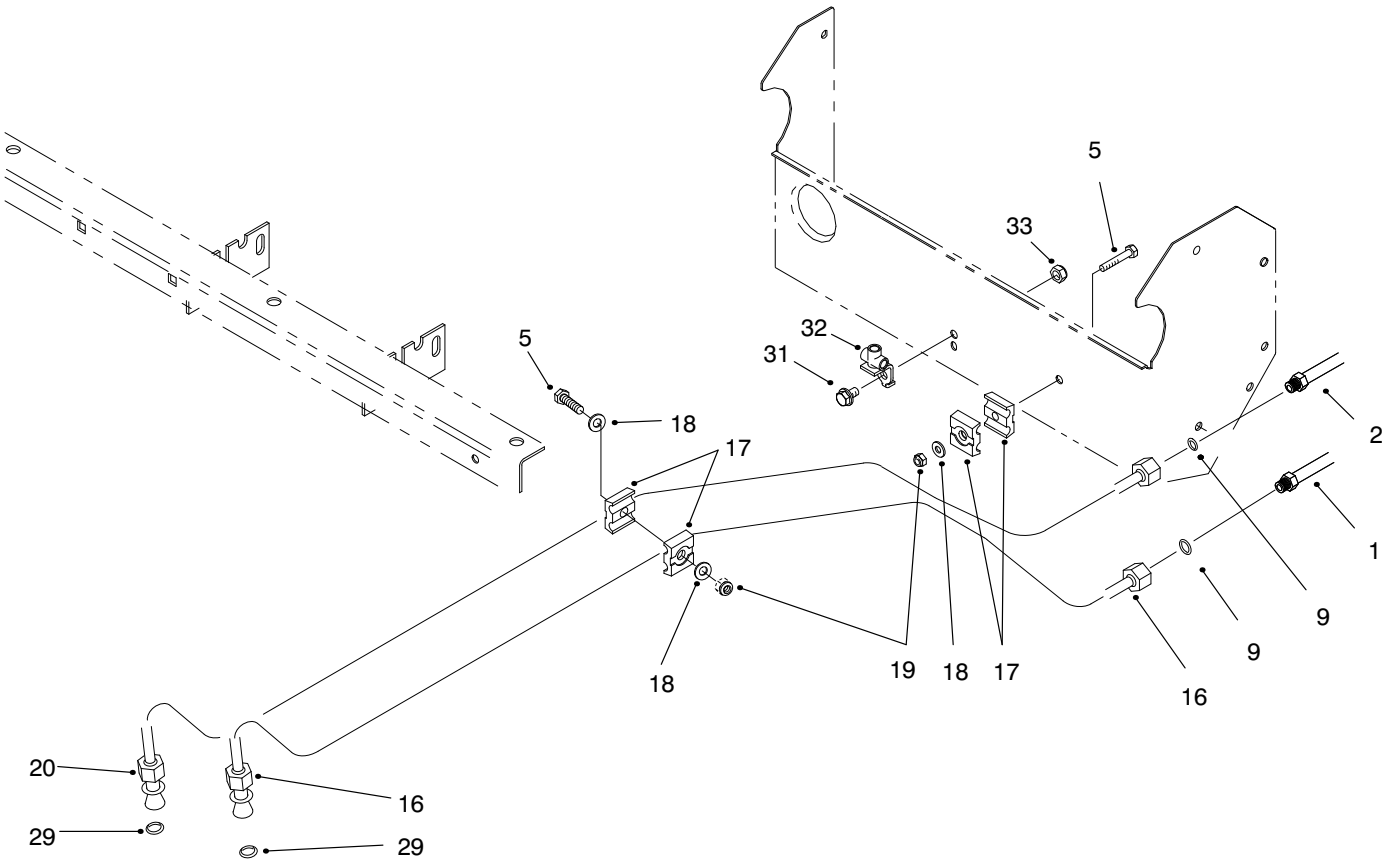
T−1737−1

FUEL TANK ASSEMBLY

Ref. No.	Part No.	Description	No. Used
1	93−3101	Cap − Fuel	1
2	98−2919	Fuel Tank Assembly (Incl. Ref. #8 & 9)	1
3	62−7650	Gasket − Sending Unit	1
4	63−7640	Unit − Sending	1
5	3253−15	Washer − Lock	5
6	32122−24	Screw − Round Hd.	5
7	5−3637	Washer − Flat	1
8	2412−36	Clamp	1
9	76−4430	Fitting − Fuel 90˚	1
10	2412−108	Clamp − Hose	2
11	63−9640	Hose − Fuel	1
12	87-3140-03	Support − Rear	1
13	323−4	Screw − Cap Hex. Hd.	2

Ref. No.	Part No.	Description	No. Used
14	3296−42	Nut − Lock	2
15	87-3150-03	Support − Front	1
16	3274−54	Screw − Hex. Socket Hd.	2
17	87−3160	Strap − Tank Support	2
18	87−3170	Pad − Tank Support Strap	2
19	3234−38	Screw − Cap Hex. Hd.	2
20	3290−357	Nut − Flange	3
21	32128−23	Nut − Flange	2
22	323−6	Screw − Cap Hex. Hd.	1
23	2412−148	Clamp − R	1
24	99−9404	Filter − Fuel	1
25	43−4300	Trim	1
26	63−7622	Hose − Fuel	1
27	2412−98	Clamp − Hose	2

PROTOTYPE



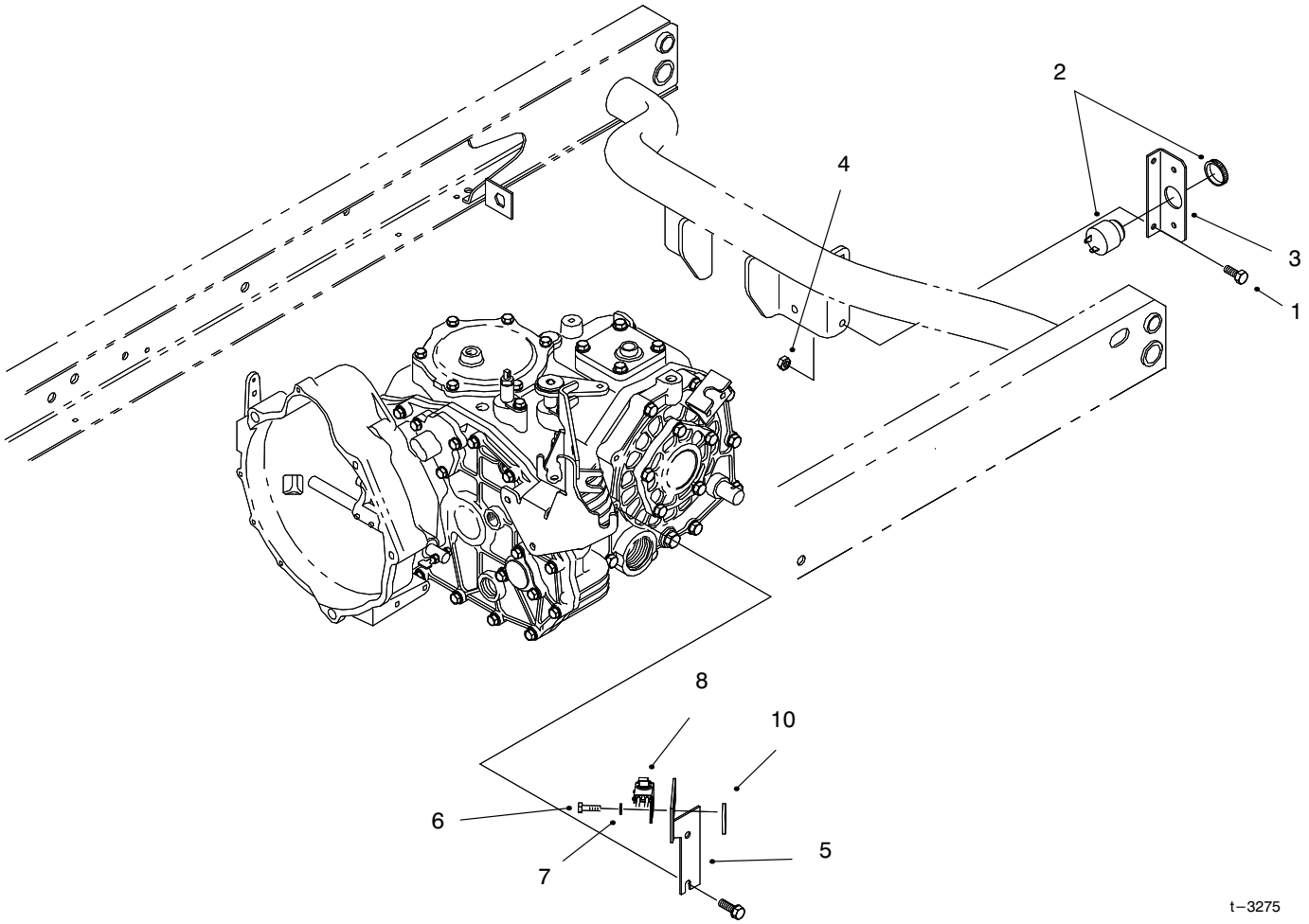
T−3291

HYDRAULIC STEERING LINES ASM

Ref. No.	Part No.	Description	No. Used
1	99−1053	Hose Asm (Include Ref #9	1
2	99−1058	Hose Asm (Include Ref #9	1
5	321−9	Screw−HH	2
9	237−22	O−Ring	2
16	87−9350	Asm−Hydraulic Tube (Incl. Ref. #29)	1
17	56−7973	Clamp−Hydraulic Tube	4

Ref. No.	Part No.	Description	No. Used
18	3256−22	Washer−Flat	3
19	3296−42	Nut−Lock	2
20	87−4540	Asm−Hydraulic Tube (Incl. Ref. #29)	1
29	39−7310	O−Ring	2
31	322−2	Screw−HH	1
32	87−3560	Tee−Brake Tube	1
33	32128−20	Nut−HFH	1

PROTOTYPE



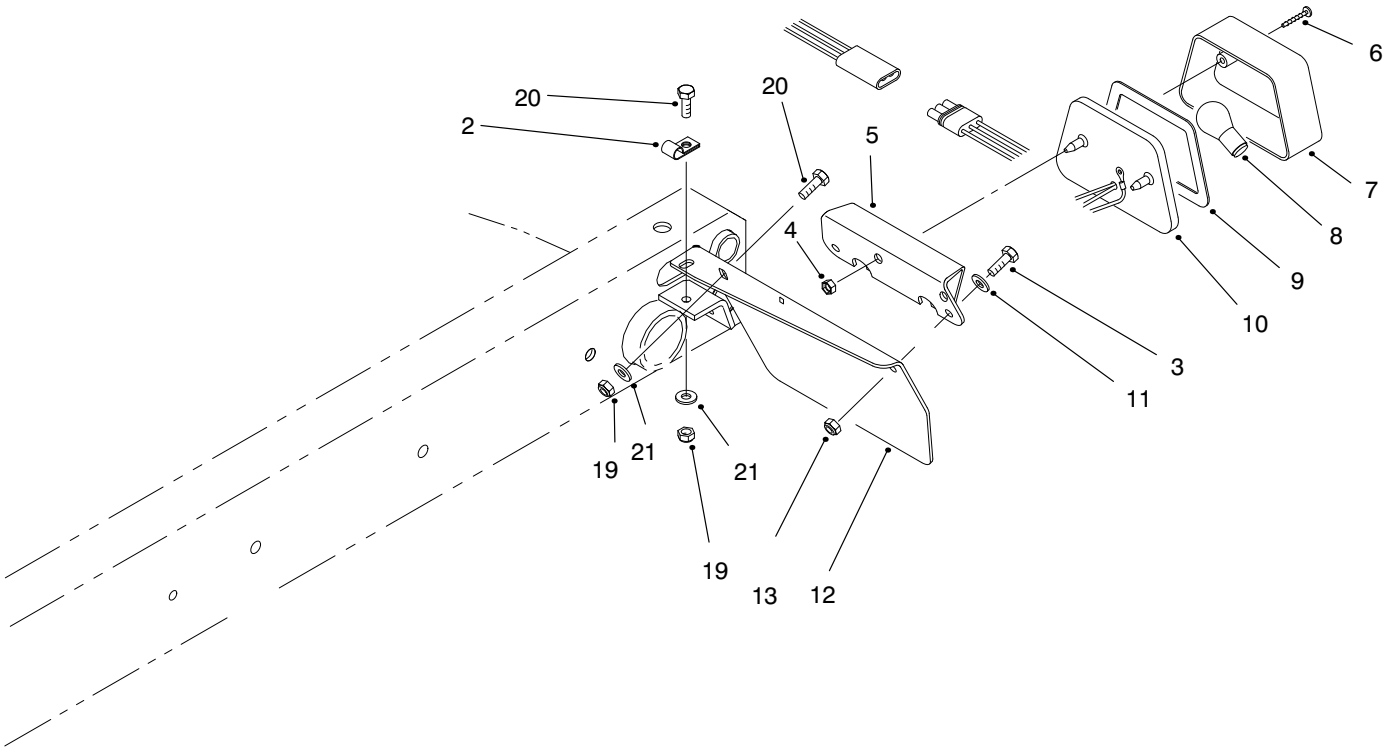
BACKUP ALARM

Ref. No.	Part No.	Description	No. Used
1	321–5	Screw–HH	2
2	80–9330	Alarm–Audio	1
3	93-3921-03	Brkt–Reverse Alarm	1
4	3296–42	Nut–Lock NI	2
5	93-3919-03	Brkt–Reverse Switch	1

Ref. No.	Part No.	Description	No. Used
6	32105–13	Screw	2
7	3256–14	Washer–Flat	2
8	92–7905	Switch & Bracket Asm	1
*9	3290–379	Tie–Cable	1
10	93–9539	Strip–Tapped	1

PROTOTYPE

*Not Illustrated



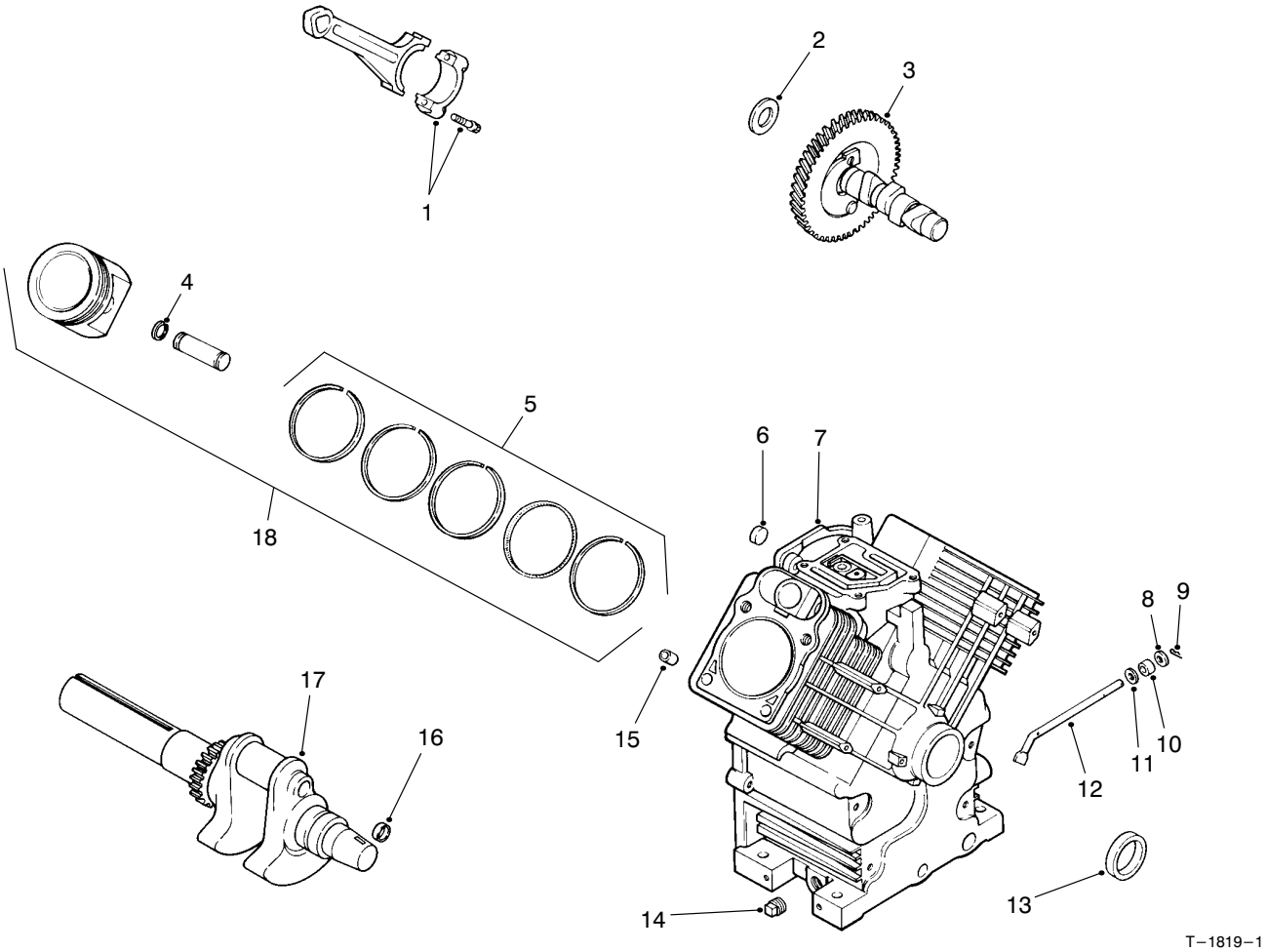
T−3293

TAIL LIGHT ASM

Ref. No.	Part No.	Description	No. Used
2	2412−93	Clamp−R	1
3	321−6	Screw−HH	2
4	3290−506	Palnut	2
5	87-5770-03	U−Bracket−Tail Light	1
6	32144−93	Screw−TAP	2
7	87−6300	Lens	1
8		Bulb (#1157 Std. 12 Volt)	1
9	87−6310	Gasket	1

Ref. No.	Part No.	Description	No. Used
10	87−2110	Asm−Tail Light (Incl. Ref. #6−9)	1
11	3256−22	Washer−Flat	2
12	100-4453-03	Plate−Tail Light LH	1
13	3296−42	Nut−Lock	2
19	3296−29	Nut−Lock	2
20	322−5	Screw−HH	2
21	3256−23	Washer−Flat	2

PROTOTYPE



T−1819−1

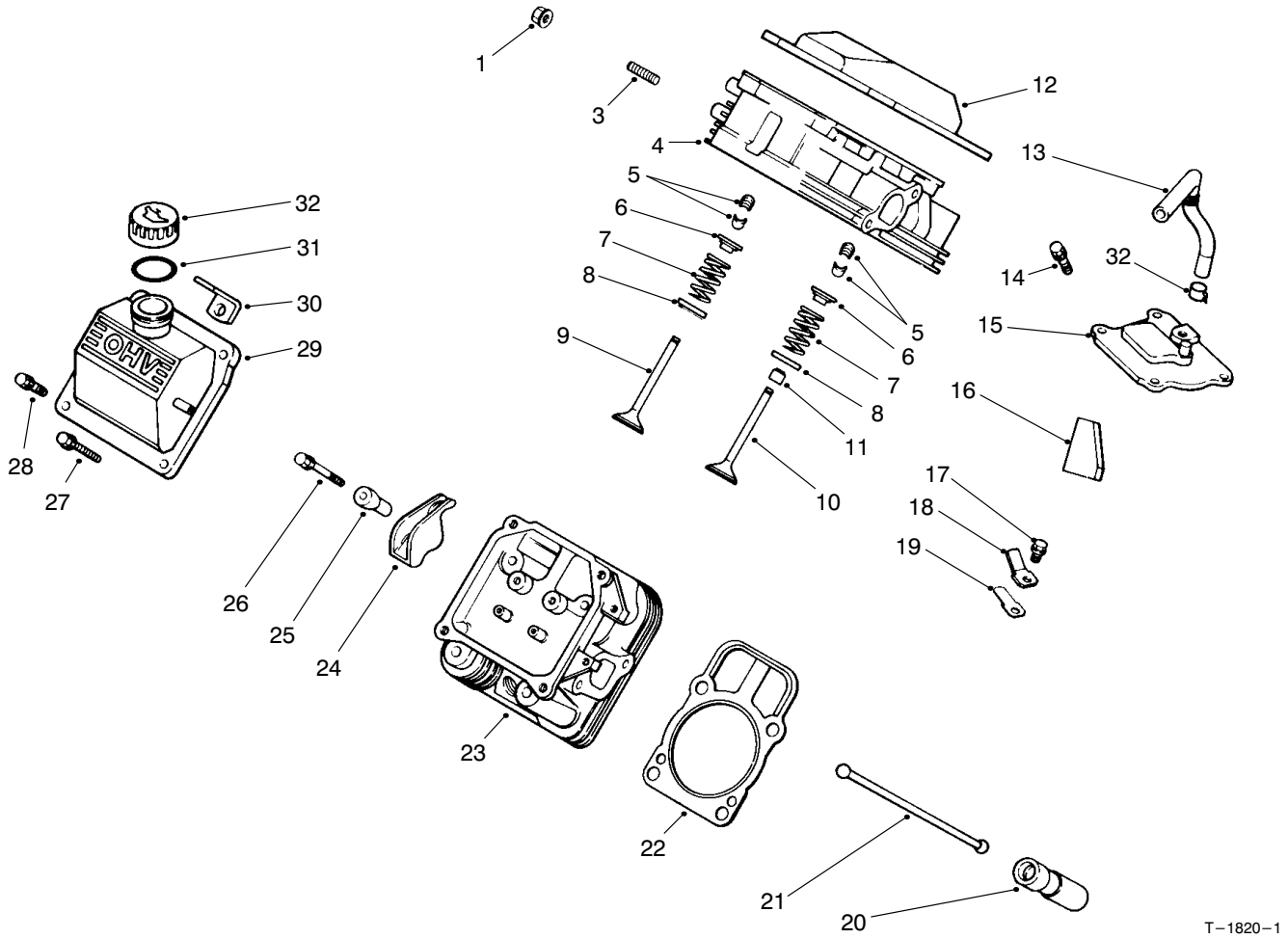
ENGINE KOHLER MODEL CH22S SPEC. NO. 66513

Ref. No.	Part No.	Description	No. Used
1	24 067 01	Rod − Connecting (Std.)	2
*	24 067 02	Rod − Connecting (.25)	2
2	12 422 09	Shim − Camshaft	A/R
*	12 422 13	Shim − Camshaft	A/R
*	12 422 07	Shim − Camshaft	A/R
*	12 422 08	Shim − Camshaft	A/R
*	12 422 10	Shim − Camshaft	A/R
*	12 422 11	Shim − Camshaft	A/R
*	12 422 12	Shim − Camshaft	A/R
3	24 012 05	Camshaft	1
4	24 018 01	Retainer − Piston Pin	4
5	24 108 01	Piston Ring Set (Std.)	2
*	24 108 02	Piston Ring Set (.25)	2
*	24 108 03	Piston Ring Set (.50)	2
6	52 139 09	Plug − Cup	1
7	24 522 44	Short Block Assembly	1
8	X−25−102	Washer − Plain	1

Ref. No.	Part No.	Description	No. Used
9	12 380 04	Pin − Hitch	1
10	12 032 01	Seal − Governor Shaft	1
11	X−25−63	Washer − Plain	1
12	24 144 01	Shaft − Governor Cross	1
13	24 032 01	Seal − Oil	1
14	X−27−10	Plug − Square Hd.	2
15	12 380 03	Pin − Dowel	6
16	52 139 09	Plug − Cup	1
17	24 014 26	Crankkshaft	1
18	24 874 01	Piston & Ring Set (Std.) (Incl. Ref. #4 & 5)	2
*	24 874 02	Piston & Ring Set (.25) (Incl. Ref. #4 & 5)	2
*	24 874 03	Piston & Ring Set (.50) (Incl. Ref. #4 & 5)	2
*	24 755 03	Gasket Set	1

PROTOTYPE

*Not Illustrated

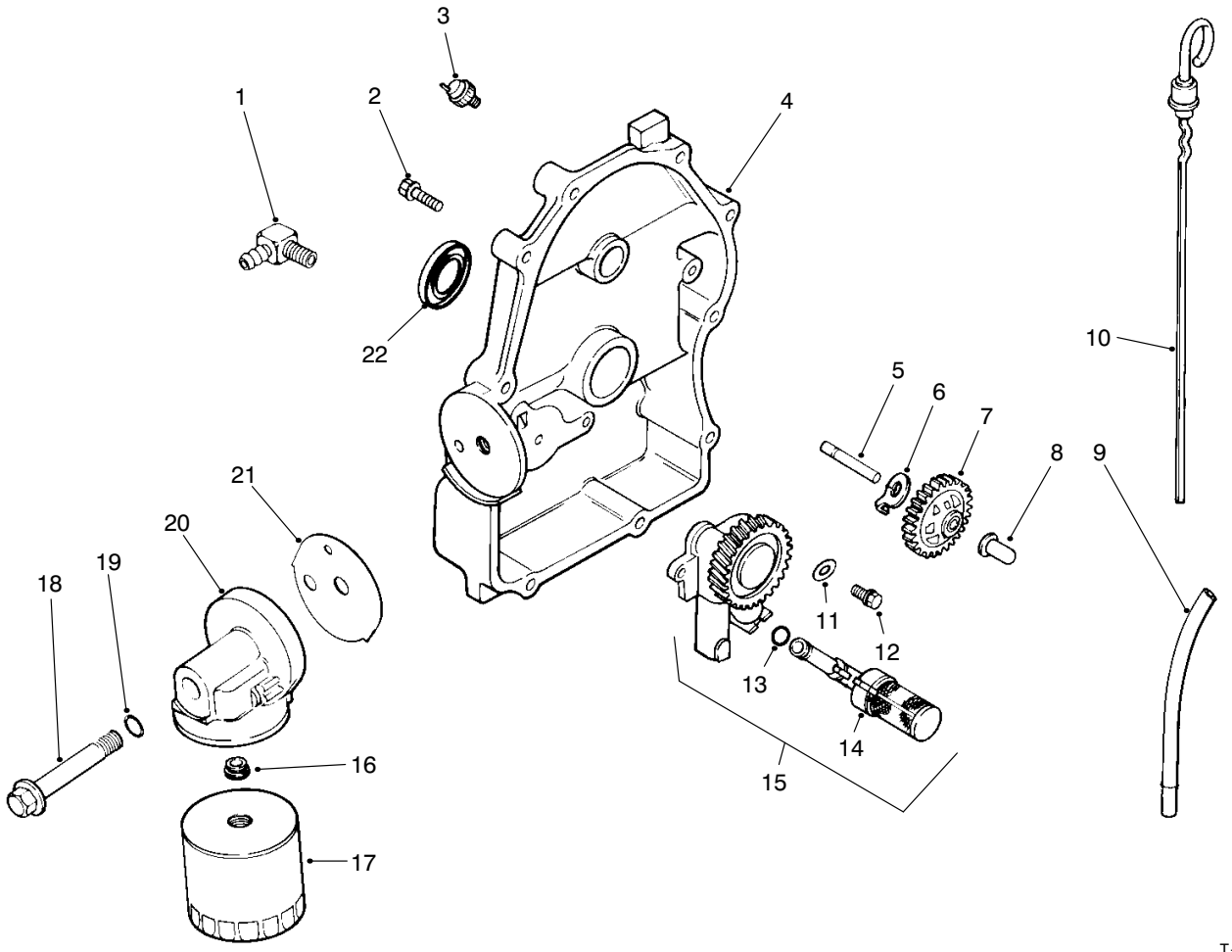


ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	M−0841080	Nut	4
3	M−0829033	Stud − Exhaust Manifold	4
4	24 318 09	No. 1 Cylinder Head Assy.	1
5	12 755 03	Retainer Kit	4
6	12 173 01	Cap − Valve Spring	4
7	24 089 02	Spring − Valve	4
8	52 018 01	Retainer − Spring	4
9	24 016 01	Valve − Exhaust	2
10	24 017 01	Valve − Intake	2
11	24 032 05	Seal − Valve Stem	2
12	24 096 11	Cover − Rocker	1
13	24 326 02	Hose − Breather	1
14	SM−0645020	Screw	4
15	24 033 01	Breather & Plug Kit	1
16	24 050 01	Filter − Breather	1
17	M−0545010	Screw − Breather	1
18	12 018 01	Retainer − Breather Reed	1

Ref. No.	Part No.	Description	No. Used
19	24 402 03	Reed − Breather	1
20	12 351 01	Lifter − Valve	4
21	24 411 02	Rod − Push	4
22	24 041 08	Gasket − Cylinder Head	2
23	24 318 10	No. 2 Cylinder Head Assy.	1
24	24 186 02	Arm − Rocker	2
25	24 194 01	Ball − Pivot Rocker	2
26	M−0640034	Screw	1
27	12 086 16	Screw	8
28	M−0651030	Screw	8
29	24 096 12	Cover − Rocker	1
30	12 445 05	Strap − Lifting	2
31	12 153 03	Seal − O−Ring	1
32	24 755 46	Oil Fill Cap Kit (Incl. Ref. #31)	1
33	X−426−9	Clamp − Breather	1

PROTOTYPE



T−1821−1

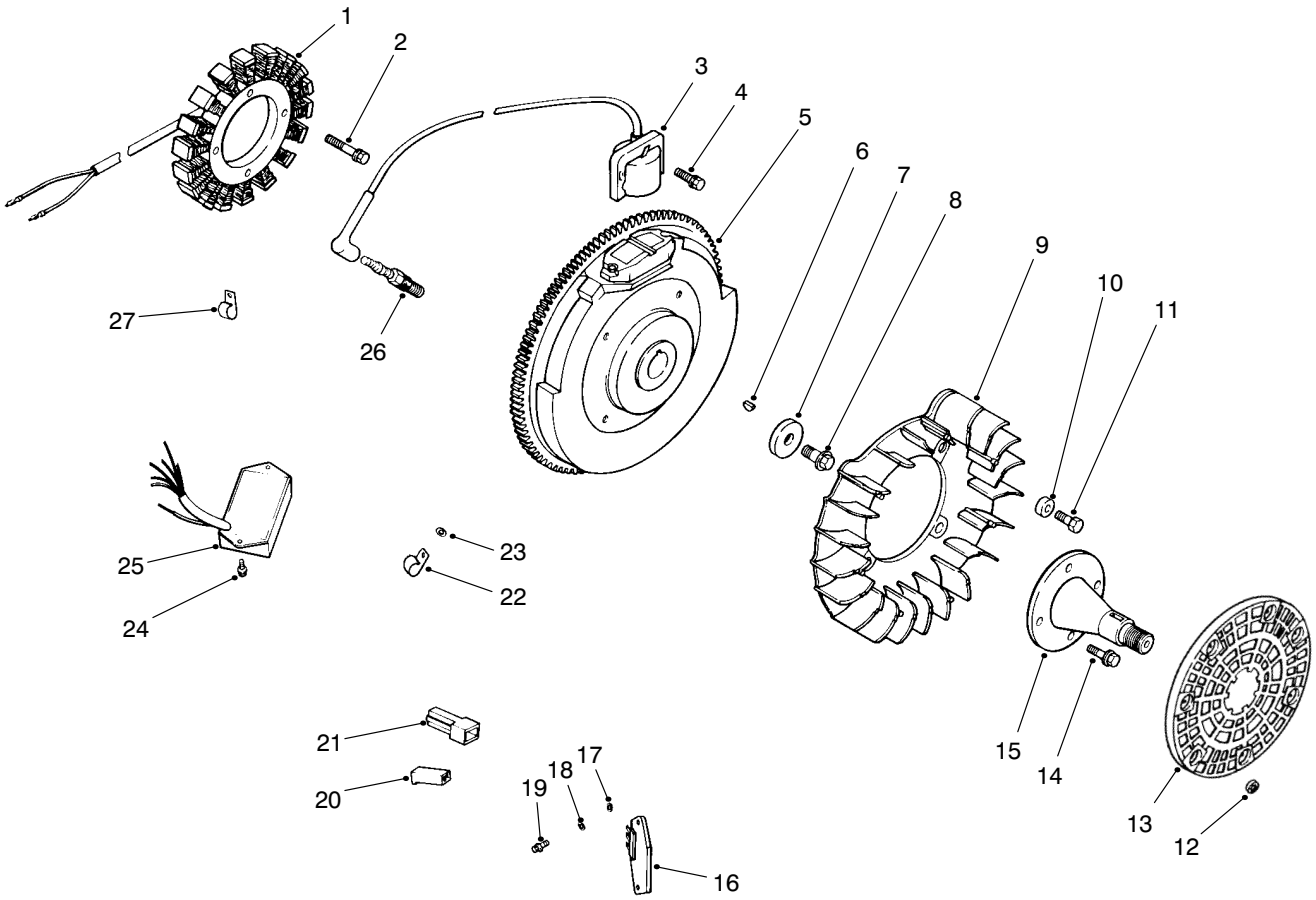
ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	25 155 02	Connector − 90° Hose	1
2	24 086 16	Screw − Plate	10
3	52 099 06	Switch − Oil Pressure	1
4	24 009 04	Plate − Closure	1
5	12 144 02	Shaft − Governor Gear	1
6	52 448 02	Tab − Locking	1
7	24 043 11	Governor Gear Assy.	1
8	12 380 01	Pin − Governor Regulating	1
9	24 123 09	Tube − Dipstick	1
10	24 038 07	Dipstick	1
11	SM−0631005	Washer − Flat	2
12	M−0645025	Screw	2

Ref. No.	Part No.	Description	No. Used
13	24 153 01	Seal − O−Ring	1
14	24 381 01	Pick−Up − Oil	1
15	24 393 03	Oil Pump Assembly (Incl. Ref. #13 & 14)	1
16	24 136 01	Nipple − Oil Filter	1
17	12 050 01	Filter − Oil	1
18	24 211 01	Bolt − Adaptor	1
19	24 153 01	Seal − O−Ring	1
20	24 029 01	Adaptor − Oil Filter	1
21	24 041 12	Gasket − Adaptor	1
22	52 032 08	Seal − Oil	1
*	25 113 05	Decal − Oil Sentry	1

*Not Illustrated

PROTOTYPE



T−1822−1

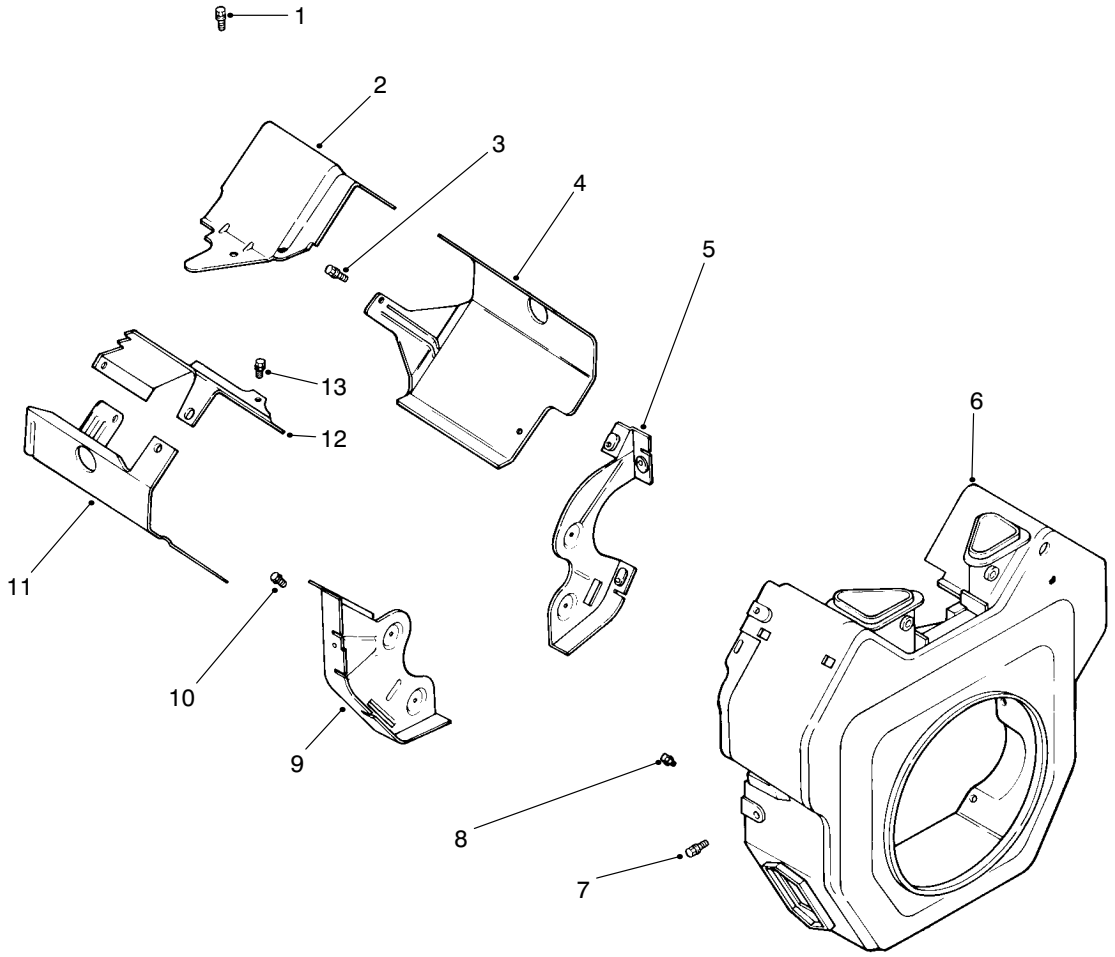
ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	12 085 02	Stator − 30 Amp.	1
2	M−0548025	Screw	2
3	24 584 03	Module − Ignition	2
4	M−0560020	Screw	4
5	24 025 02	Flywheel Assembly	1
6	X−42−15	Key	1
7	12 468 03	Washer − Flywheel	1
8	12 086 14	Screw − Flywheel	1
9	24 157 01	Fan	1
10	12 112 01	Spacer − Fan	4
11	M−0639016	Screw	4
12	24 018 03	Retainer	3
13	24 162 16	Screen − Grass	1
14	M−0839025	Screw	4
15	24 144 17	Shaft − Front Drive	1

Ref. No.	Part No.	Description	No. Used
16	25 403 01	Rectifier/Regulator 25 Amp.	1
17	X−25−92	Washer − Plain	2
18	X−25−63	Washer − Plain	1
19	24 086 18	Screw − Phillips	2
20	25 155 04	Connector − 1 Contact	1
21	25 155 03	Connector − 1 Contact	1
22	47 154 01	Clip − Cable	1
23	X−25−63	Washer − Plain	1
24	M−0448010	Screw	2
25	24 584 04	Module − Speed Advance	1
26	12 132 02	Plug − Spark	2
27	48 154 02	Clip − Cable	1
*	24 176 28	Harness − Wire	1
*	24 518 04	Lead − Green (Rect.−Reg. 4” 18 Ga.)	1

PROTOTYPE

*Not Illustrated



T−1823−1

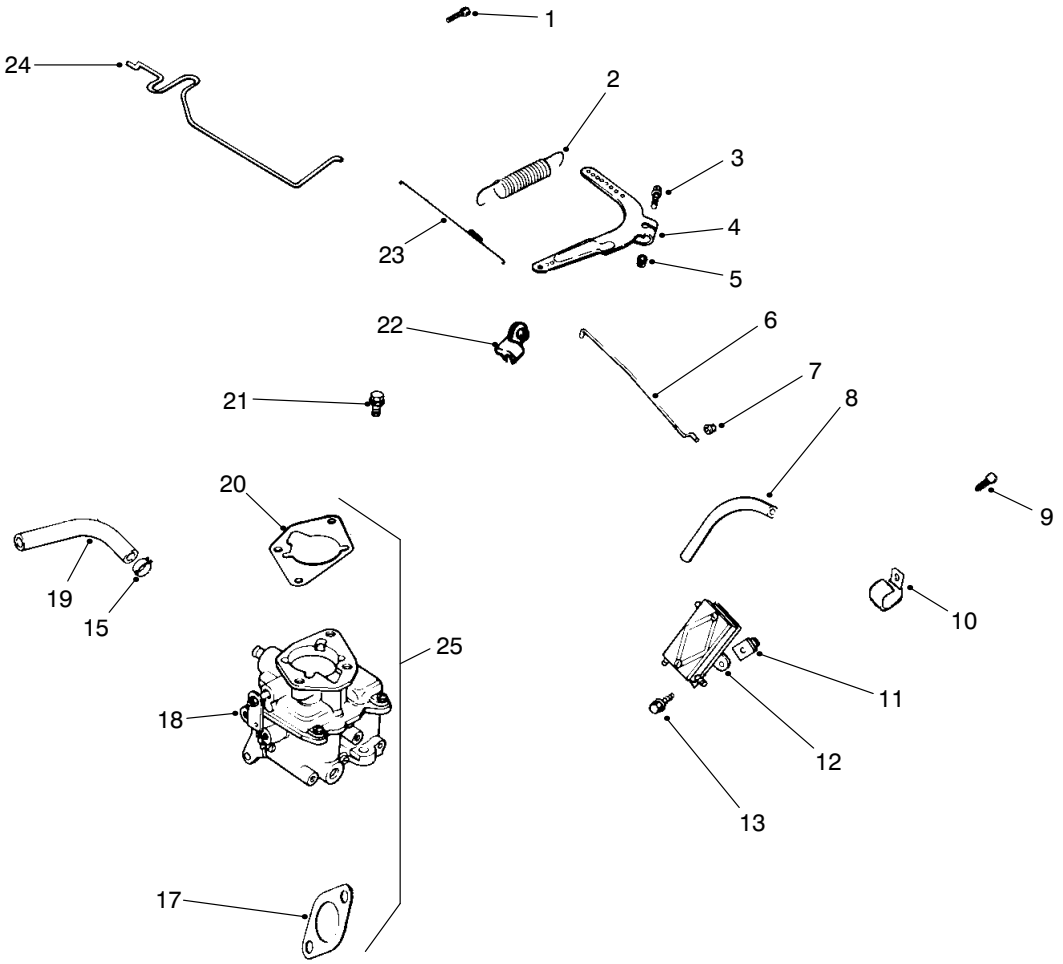
ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	M−0549016	Screw	2
2	24 063 17	Baffle − Valley (No. 2 Side)	1
3	M−0549016	Screw	2
4	24 063 20	Baffle − Cylinder Barrel (No. 2 Side)	1
5	24 146 01	Plate − Backing (No. 1 Side)	1
6	24 027 04	Housing − Blower	1
7	M−0549016	Screw	5

Ref. No.	Part No.	Description	No. Used
8	M−0551016	Screw	1
9	24 146 02	Plate − Backing (No. 2 Side)	1
10	SM−0645016	Screw	4
11	24 063 19	Baffle − Cylinder Barrel (No. 1 Side)	1
12	24 063 18	Baffle − Valley (No. 1 Side)	1
13	M−0649016	Screw	2
*	24 113 13	Decal − Horsepower	1

PROTOTYPE

*Not Illustrated



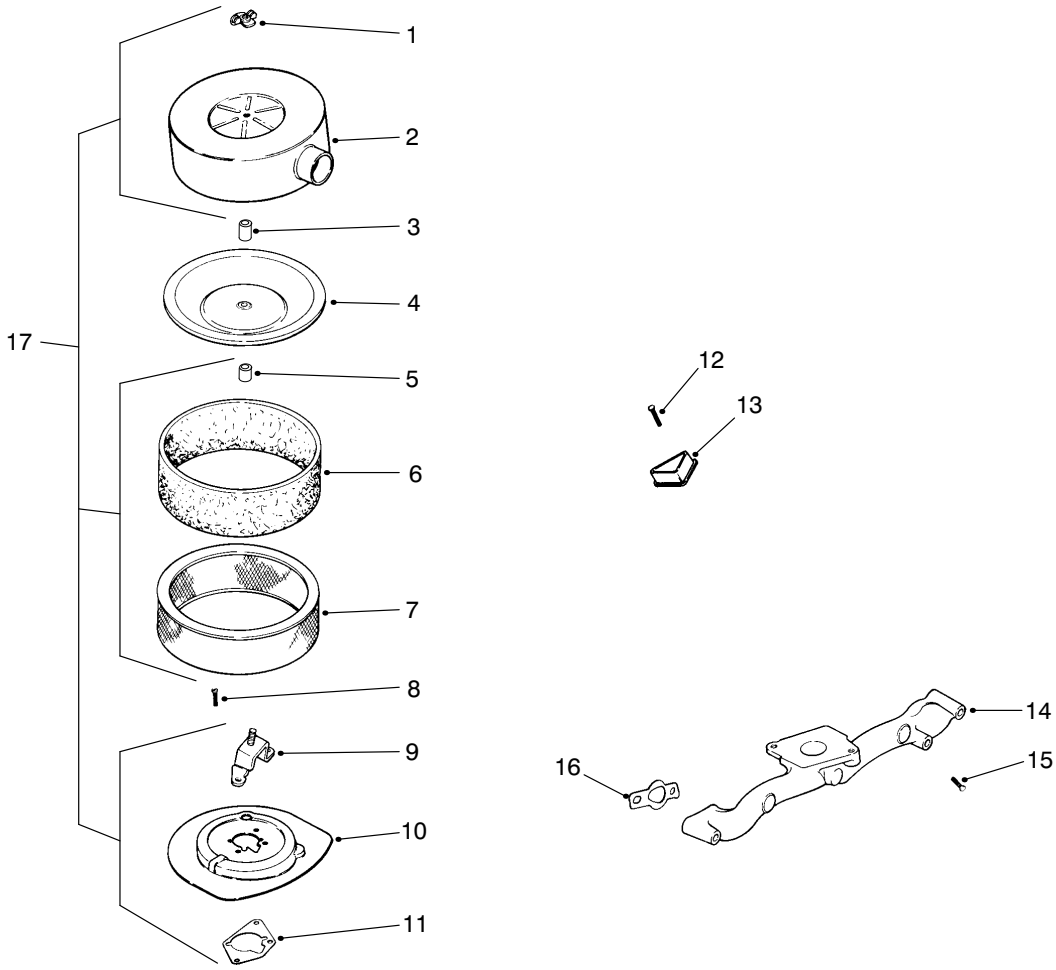
T−1824−1

ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	SM−0645016	Screw	4
2	24 089 15	Spring − Governor	1
3	SM−0642025	Screw	1
4	24 090 14	Lever − Governor	1
5	SM−0641060	Nut	1
6	24 079 01	Linkage − Throttle	1
7	25 158 08	Bushing − Linkage	1
8	24 353 02	Line − Fuel 15.5”	1
9	M−0650012	Screw − Clip	1
10	47 154 01	Clip − Cable	1
11	24 100 01	Nut	2
12	24 393 04	Pump − Fuel	1
13	24 086 12	Screw	2

Ref. No.	Part No.	Description	No. Used
15	X−426−9	Clamp − Hose	4
17	24 041 17	Gasket − Carburetor	1
18	24 053 17	Carburetor Assembly (For information only, not available seperatly)	1
19	25 353 10	Line − Fuel 9”	1
20	24 041 06	Gasket − Air Cleaner Base	1
21	M−0651030	Screw	2
22	25 158 11	Bushing − Linkage	1
23	24 089 01	Spring − Linkage	1
24	24 079 05	Linkage − Choke	1
25	24 853 20	Carburetor & Gasket Kit (Incl. Ref. #17, 18 & 20)	1

PROTOTYPE



T−1825−1

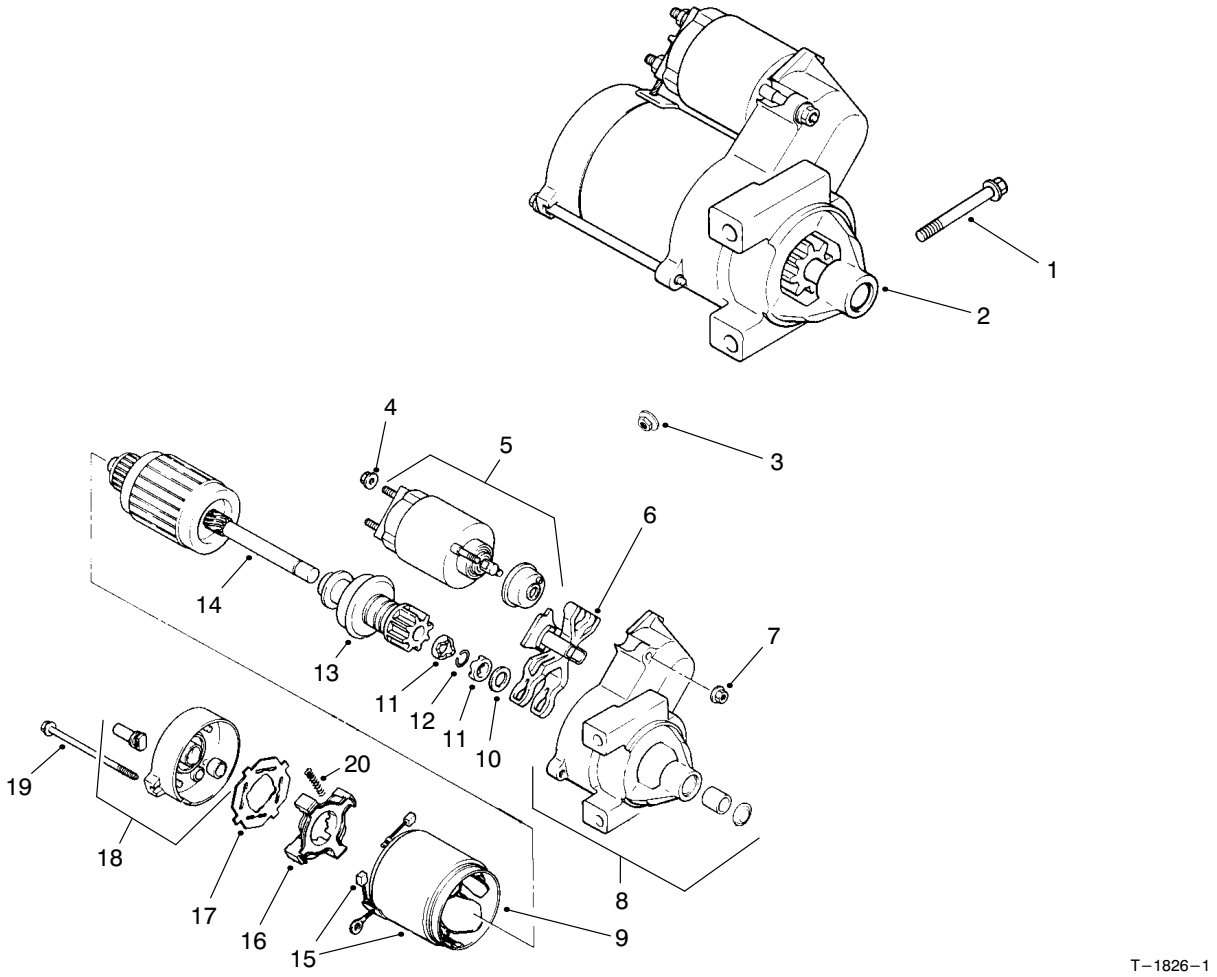
ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	12 100 01	Nut − Wing	2
2	24 096 10	Cover − Air Cleaner	1
3	41 032 02	Seal − Insert	1
4	24 096 01	Cover − Inner Air Cleaner	1
5	230046	Seal − Air Intake	1
6	24 083 02	Element − Precleaner	1
7	47 083 03	Element − Air Cleaner	1
8	M−0650825	Screw	3
9	24 126 22	Bracket − Air Cleaner	1
10	24 041 06	Gasket − Air Cleaner Base	1

Ref. No.	Part No.	Description	No. Used
11	24 094 05	Base − Air Cleaner	1
12	15 086 09	Screw	2
13	24 096 17	Cover − Blower Housing	2
14	24 164 14	Manifold − Intake	1
15	M−0639055	Screw	4
16	24 041 01	Gasket − Intake Manifold	2
17	24 755 21	Grass Deflection Kit (Incl. Ref.#1, 2, 5−7 & 9−11)	1
*	24 113 14	Decal − Maintenance	1

*Not Illustrated

PROTOTYPE



T−1826−1

ENGINE KOHLER MODEL CH22S SPEC. NO. 66513 (Cont.)

Ref. No.	Part No.	Description	No. Used
1	M−0839080	Screw	2
2	24 098 01	Starter − Solenoid Shift (Incl. Ref. #4−20)	1
3	M−0841080	Nut	1
4	52 100 09	Nut − Starter	1
5	52 435 02	Solenoid	1
6	12 090 10	Lever − Starter Drive	1
7	52 100 10	Nut − Starter	2
8	24 081 04	Drive − End Cap	1
9	12 471 01	Frame	1
10	52 468 14	Washer − Thrust	1

Ref. No.	Part No.	Description	No. Used
11	52 100 08	Nut − Stop Collar	2
12	52 141 03	Ring − Retainer	1
13	12 239 01	Drive − Pinion	1
14	12 170 03	Armature − Starter	1
15	52 221 01	Brush Kit	1
16	52 323 03	Holder − Brush	1
17	52 168 01	Insulator	1
18	24 301 01	Commutator − End Cap	1
19	52 211 05	Bolt − Thru	2
20	52 089 09	Spring − Brush	4

PROTOTYPE

PRODUCT CHANGES

In an effort to make improvements available to TORO owners as quickly as possible, minor changes are incorporated into Toro's products from time to time that do not become immediately shown in the Parts Catalog. If such a change has been made in your unit, which is not reflected in your manual, see your TORO Distributor or his Authorized TORO Service Dealer for information and part numbers.

IDENTIFICATION AND ORDERING

MODEL AND SERIAL NUMBERS

The Workman 3120 has two identification numbers; a model number and a serial number. The two numbers are stamped on a plate which is located on the main frame. In any correspondence concerning the Workman 3120, supply model and serial numbers to assure that correct information and replacement parts are obtained.

To order replacement parts from an Authorized TORO Service Dealer, supply the following information:
1. Model and serial number of the Workman 3220.
2. Part number, description, and the quantity of part(s) desired.

NOTE: Do not order by reference number if a parts catalog is being used; use the PART NUMBER.

TABLE OF CONTENTS

Description	Page
Front Bumper & Hood Asm	1
Control Panel Asm	2
Electrical Schematic	3
Steering Linkage Asm	4
Steering Gear Asm No. 87–1500	5–6
Brake & Accelerator Pedal Asm	7
Master Brake Cylinder No. 94–3800	8
Hydraulic Brake Line Routing Asm	9
Hydraulic Schematic	10
Clutch Linkage Asm	11
Seat Base Asm	12
Seat Back Asm	13
Hi–Lo Shift Levers Assemblies	14
Parking Brake Assemblies	15
Front Suspension Asm	16
Front Suspension Control Arm Asm	17
Front Wheel Asm	18
Front Brake Asm	19
Rear Frame Asm	20
Rear Axle Asm	21–22
Rear Brake Asm	23
Egine Frame & Hydraulic Pump Drive Asm	24
Hydraulic Pump Asm No. 99–1054	25
Engine Installation Asm	26
Throttle Linkage Asm	27
Muffler & Relay Asm	28
Transaxle Installation Asm	29
Transaxle Installation Asm	30
Transaxle Case Asm	31
Countershaft Asm	32
Transaxle Gear Shafts Asm	33
Shift Fork Asm	34
Differential Gear Asm	35
Battery Mount Asm	36
Fuel Tank Asm	37
Hydraulic Steering Lines Asm	38
Backup Alarm	39
Tail Light Asm	40
Engine Kohler Model CH22S Spec. No. 66513	41
Engine Kohler Model CH22S Spec. No. 66513	42
Engine Kohler Model CH22S Spec. No. 66513	43
Engine Kohler Model CH22S Spec. No. 66513	44
Engine Kohler Model CH22S Spec. No. 66513	45
Engine Kohler Model CH22S Spec. No. 66513	46
Engine Kohler Model CH22S Spec. No. 66513	47
Engine Kohler Model CH22S Spec. No. 66513	48

PROTOTYPE

MAINTENANCE RECORD

Date								

PROTOTYPE

MAINTENANCE RECORD

Date								

PROTOTYPE

MAINTENANCE RECORD

Date								

PROTOTYPE