



Reelmaster[®] 5500-D 4WD

Model No. 03551—20000301 and Up

Parts Catalog

Ordering Replacement Parts

To order replacement parts, please supply: the part number, the quantity, and the description of each part desired.

Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b**. The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

For example, a wheel assembly might be identified by reference number **6**, the tire by **6:1**, the valve by **6:2**, and the wheel by **6:3**. When you order the assembly identified by reference number **6**, you receive all parts identified by reference numbers **6:1**, **6:2**, and **6:3**. However, you may also order any part individually.

Reference numbers of this type appear in illustrations and in part lists.

Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form **nX y**. The **n** represents the quantity of the part, the **X** is the multiplication symbol, and the **y** represents the reference number.

For example, in an illustration, the reference number **2X 37** means that two of the parts identified by reference number **37** are indicated.

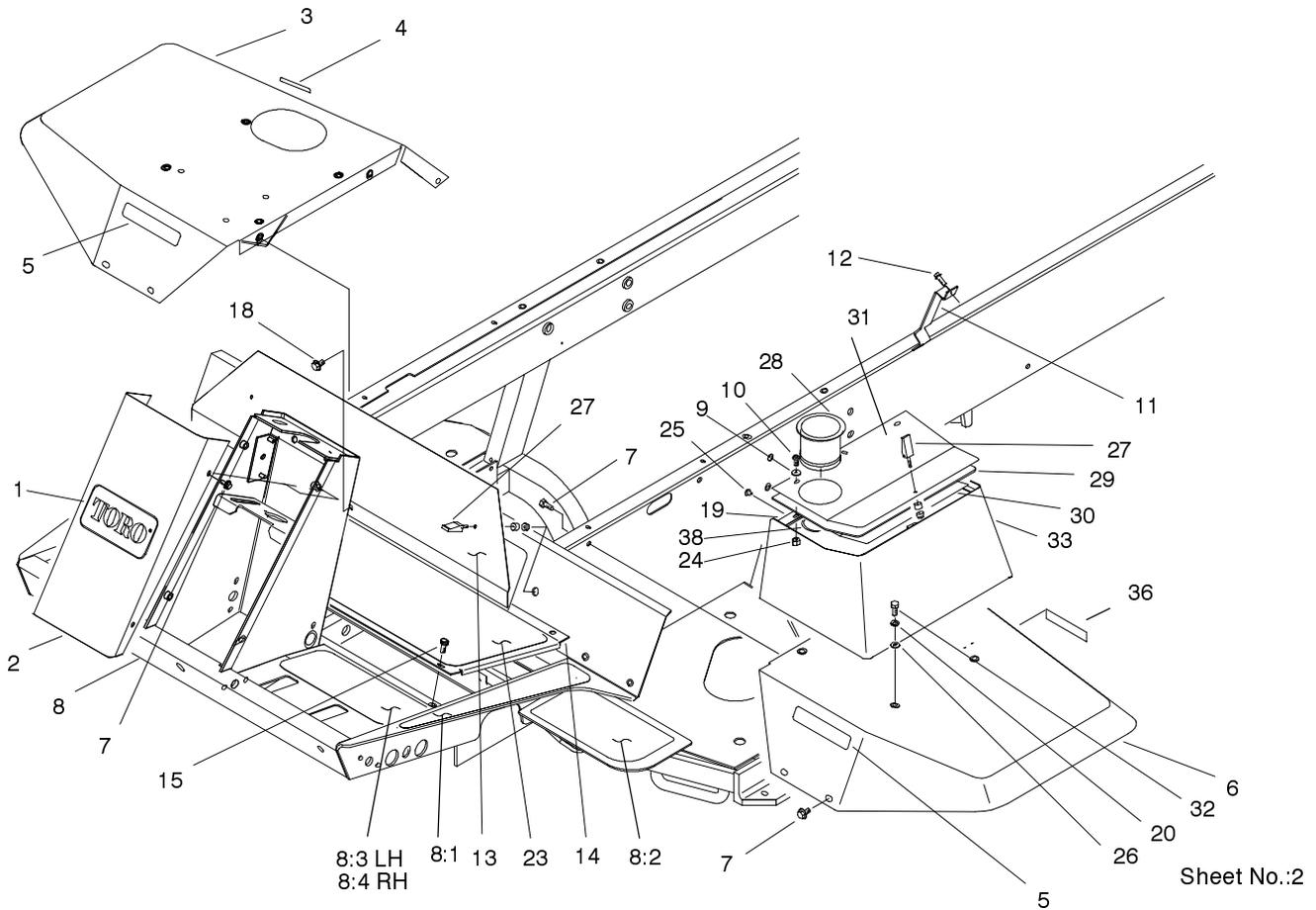
Contents

Description	Page	Description	Page
Frame And Body Assembly	4	Rear Axle Assembly No. 98-3925	
Steering Tower Assembly	6	Bevel Pinion Shaft Assembly	57
Steering Valve Assembly No. 99-8959	8	Rear Axle Assembly No. 98-3925 (Continued)	
Traction And Brake Pedal Assembly	9	Differential Assembly	58
Seat Frame And Throttle Assembly	10	Rear Axle Assembly No. 98-3925 (Continued)	
Seat And Suspension Assembly	11	Axle Support Assembly	59
Seat Suspension Assembly No. 75-3000	12	Rear Axle Assembly No. 98-3925 (Continued)	
Control Console Assembly	13	Bevel Gear Case Assembly	60
Diagnostic-ACE Display Assembly	15	Rear Axle Assembly No. 98-3925 (Continued)	
Hydraulic Filter And Reservoir Assembly	16	Bevel Gear Shaft Assembly	61
Fuel Tank Assembly	17	Rear Axle Assembly No. 98-3925 (Continued)	
Fuel Filter Assembly No. 99-8351	18	Axle Case Assembly	62
Front Axle Assembly	19	Rear Axle Assembly No. 98-3925 (Continued)	
Transmission Assembly	20	Axle Case Assembly	63
Transmission Assembly No. 75-0012	21	Special Tools	64
Traction Control Assembly	23	Gauge Bar and Backlapping Brush Assembly ..	65
Gear Pump Installation Assembly	24	Hydraulic Schematic	66
Engine Installation Assembly	25	Electrical Schematic	67
Muffler And Pump Drive Assembly	26	Electrical Schematic - Turfdefender	68
Engine Components Assembly	27	Crankcase Assembly	69
Air Cleaner Assembly No. 98-4517	28	Oil Pan Assembly	70
Water/Fuel Separator Assembly No. 98-9305 ..	29	Cylinder Assembly	71
Fan Drive Assembly	30	Gear Case Assembly	72
Radiator Assembly	31	Filter, Oil Cooler & Pipe Assembly	73
Oil Cooler / Radiator Assembly	32	Head Cover Assembly	74
Hood Assembly	33	Dipstick Assembly	75
Lift Block Assembly	34	Main Bearing Case Assembly	76
Hydraulic Manifold Assembly No. 99-6979	35	Camshaft Assembly	77
Mow Block Assembly	36	Piston & Crankshaft Assembly	78
Hydraulic Manifold Assembly No. 99-6978	37	Flywheel Asssembly	80
Rear Hydraulic Manifold Assembly	38	Fuel Camshaft Assembly	81
Reel Motor And Hose Assembly	39	Engine Stop Lever Assembly	82
Reel Motor No. 98-9999	40	Stop Solenoid & Fuel Pump Assembly	83
Front Lift Circuit Assembly	41	Injection Pump Assembly	84
Hydraulic Cylinder Assembly No. 99-6986	42	Injection Pump Assembly No. 98-9643	85
Hydraulic Cylinder Assembly No. 99-6987	43	Governor Assembly	86
Front Lift Arm Assembly	44	Speed Control Plate Assembly	87
Rear Lift Cylinder Assembly	45	Nozzle Holder & Glow Plug Assembly	88
Hydraulic Cylinder Assembly No. 98-3945	46	Nozzle Holder Assembly No. 98-9468	89
Rear Lift Arm Assembly	47	Alternator & Pulley Assembly	90
Rear Axle Support	48	Alternator Assembly	91
4WD Rear Axle Assembly	49	Starter Mount Assembly	92
Hydraulic Cylinder No. 98-8163	50	Starter Assembly No. 98-9705	93
4WD Shaft Assembly	51	Water Flange & Thermostat Asembly	94
Clutch Housing Assembly	52	Water Pump Assembly	95
ROPS Assembly	53	Valve & Rocker Arm Assembly	96
Axle Assembly No. 99-6981-03	54	Exhaust Manifold & Gasket Assembly	97
Brake Assembly	56	Turbo Charger Assembly	98

Part descriptions in this catalog may include the following abbreviations.

Abbreviation	Meaning	Abbreviation	Meaning
AR	as required	LH	left hand
ASM	assembly	NI	nylon insert
CARR	carriage	INC	incorporated
DEG	degrees	LH	left hand
FH	flat head	NI	nylon insert
GA	gauge	PPH	Phillips pan head
HF	hex flange	PTH	Phillips truss head
HH	hex head	PTO	power take off
HHF	hex head flange	RH	right hand
HLH	hex lag head	SFH	slotted fillister head
HJ	hex jam	SHH	slotted hex head
HOC	height-of-cut	SQH	square head
HS	hex socket	SHWH	slotted hex washer head
HSBH	hex socket button head	SPH	slotted pan head
HSFH	hex socket flat head	SRH	slotted round head
HSH	hex socket head	STD	standard
HWH	hex washer head	TAP	self tapping
HWHTF	hex washer head thread forming	TTH	Torx truss head
INC	incorporated	WH	wing head

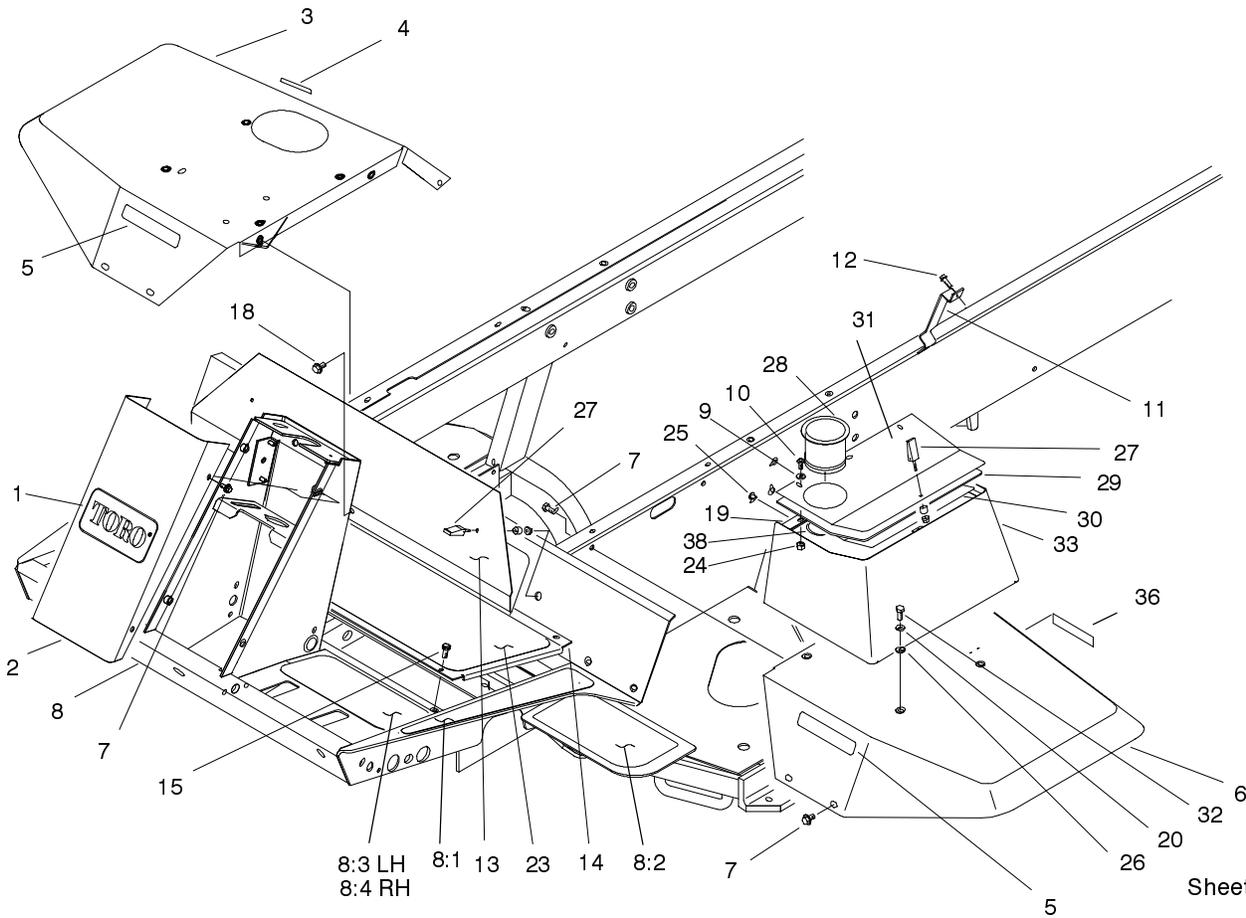
PROTOTYPE



Frame And Body Assembly

Ref. No.	Part No.	Qty.	Description
1	62-5550	1	Decal
2	93-7996-01	1	Cover - Tower
3	93-7579	1	Fender-RH
4	93-6686	1	Decal-Oil, Hydraulic
5	93-6689	2	Decal - No Riders
6	75-3860	1	Fender-LH
7	3234-14	14	Screw-HHF
8	99-6900-01	1	Frame
9	3256-1	3	Washer-Flat
10	3258-166	3	Screw
11	98-4572	1	Bracket-Clamp, Hose
12	32144-14	2	Screw-HWH
13	75-1390-01	1	Cover-Access, Front
14	75-1410-01	1	Plate-Access, Floor
15	75-6840	4	Knob - Knurled
15	3234-7	1	Screw-HHF
16	93-7592	2	Tread Foot Rest - LH
17	104-0048	1	Tread-Step
18	3234-5	1	Screw-HHF
19	75-5780	1	Hinge-Steel
20	3256-3	4	Washer-Flat
21	75-0620	1	Tread-Foot, LH
22	75-0610	1	Tread-Foot, RH
23	75-0630	1	Tread-Foot, Center
24	32128-33	3	Nut-HF
25	93-8744	3	Pop - Rivet

Ref. No.	Part No.	Qty.	Description
26	52-2900	4	Washer
27	74-5950	3	Latch-Swell
28	94-1410	1	Holder-Can, Beverage
29	93-9180-03	1	Cover-Tool Box
30	104-1400	1	Decal - Service Instructions, Danish
30	104-1401	1	Decal - Service Instructions, Dutch
30	104-1402	1	Decal - Service Instructions, Finnish
30	104-1405	1	Decal - Service Instructions, Italian
30	104-1404	1	Decal - Service Instructions, German
30	104-1403	1	Decal - Service Instructions, French
30	104-0081	1	Decal-Service Instructions
30	104-1408	1	Decal - Service Instructions, Portuguese
30	104-1407	1	Decal - Service Instructions, Norwegian
30	104-1406	1	Decal - Service Instructions, Japanese

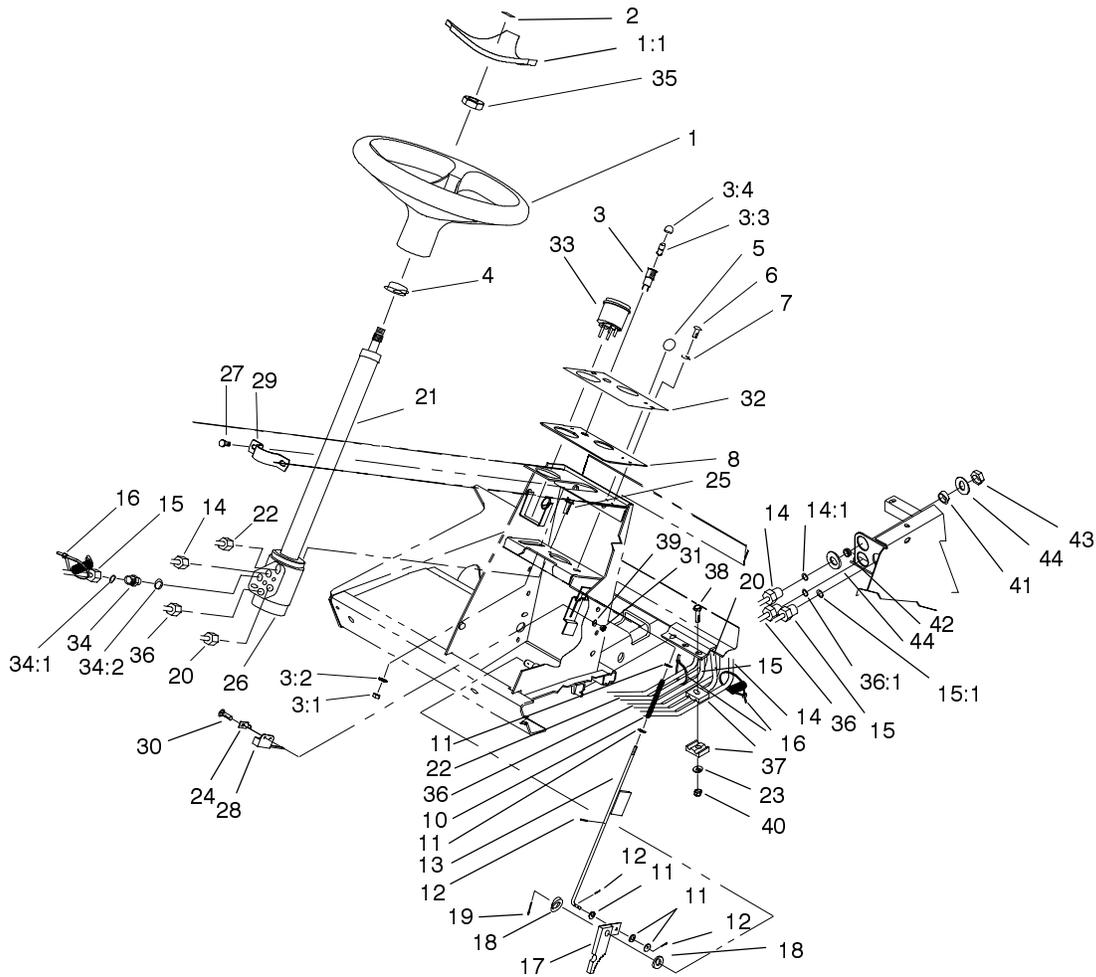


Frame And Body Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
30	104-1409	1	Decal - , Service Instructions, Spanish
30	104-1410	1	Decal - Service Instructions, Swedish
30	104-1434	1	Decal - Service Blank
31	93-1262	1	Decal-Hillside
32	322-3	4	Screw-HH
33	75-5810-03	1	Box-Tool
36	93-6680	1	Decal - Diesel Only
38	104-1476	1	Ring-Rubber

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

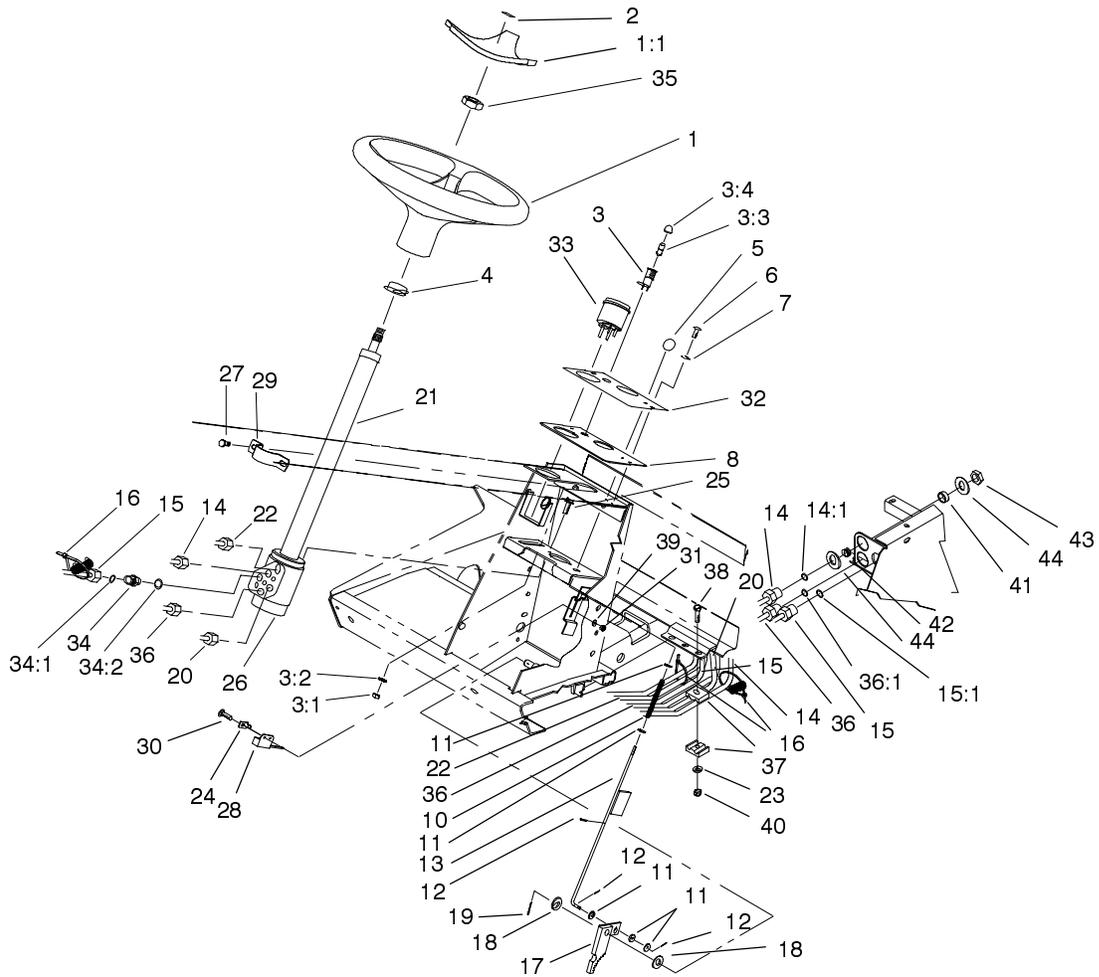


Sheet No.:3

Steering Tower Assembly

Ref. No.	Part No.	Qty.	Description
1	98-1471	1	Wheel - Steering 14"
1:1	98-1468	1	Cover - Wheel
2	98-1459	1	Decal-Toro
3	44-2210	1	Light-Indicator, Red
3:1	218-535	1	Nut-Hex
3:2	218-536	1	Washer-Lock
3:3	93-7480	1	Led-Miniature Bayonet
3:4	218-533	1	Lens
4	21-9260	1	Cover-Dust
5	233-17	1	Knob
6	87-6620	2	Screw-Special
7	3256-1	2	Washer-Flat
8	93-7998-03	1	Plate - Instrument
10	95-1821-03	1	Spring - Compression
11	3256-22	5	Washer-Flat
12	3272-5	3	Pin-Cotter
13	104-0096	1	Rod ASM
14	98-3912	1	Tube ASM
14:1	237-22	1	O-Ring
15	98-3910	1	Tube ASM
15:1	237-22	1	O-Ring
16	3290-378	3	Tie-Cable
17	63-7900-03	1	Rack
18	3256-26	2	Washer-Flat

Ref. No.	Part No.	Qty.	Description
19	3272-10	1	Pin-Cotter
20	98-3908	1	Tube ASM
21	94-9951	1	Column - Steering
22	98-3909	1	Tube ASM
23	3256-23	3	Washer-Flat
24	100-4872	1	Plate-Switch, Neutral
25	33103-020	3	Screw-HHF
26	99-8959	1	Control - Steering
27	32144-11	2	Screw-TAP
28	104-1414	1	Sensor-Ferrous Proximity (Nc)
29	75-2810	1	Bracket-Column, Steering
30	104-1450	1	Bolt-CARR
31	3296-2	1	Nut-Lock
32	93-1263	1	Decal-Tower
33	85-4420	1	Speedometer
34	340-2	5	Adapter
34:1	237-22	1	O-Ring
34:2	237-42	1	O-Ring
35	94-9952	1	Nut - Hex
36	98-3911	1	Tube ASM
36:1	237-22	1	O-Ring
37	56-7973	6	Clamp-Tube
38	322-7	3	Screw-HH
39	3256-14	1	Washer-Flat

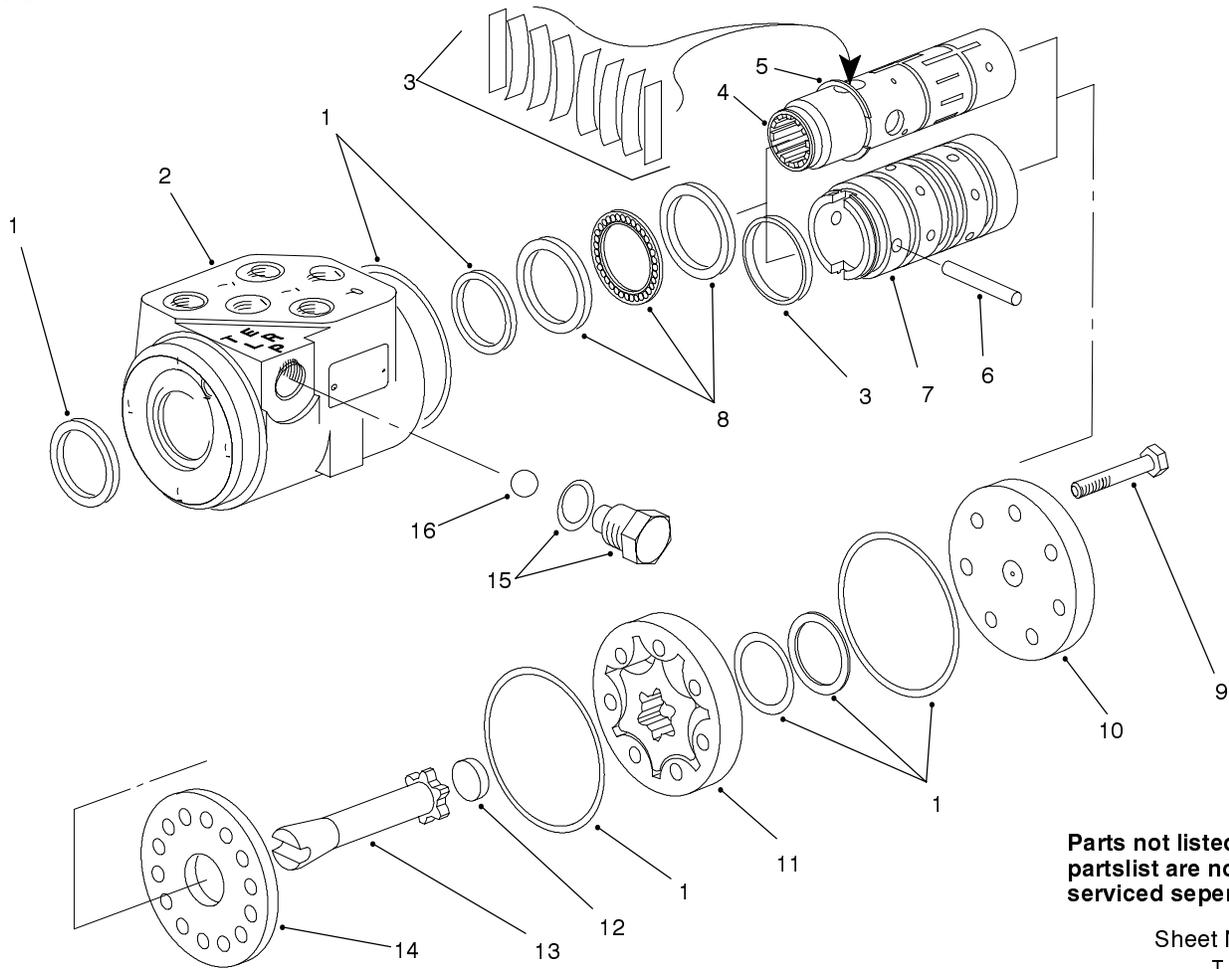


Sheet No.:3

Steering Tower Assembly (Continued)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
40	3296-29	3	Nut-Lock, NI				
41	69-8970	3	Spacer				
42	240-4	3	Rubber Grommet				
43	340-70	3	Locknut-Bulkhead				
44	69-8940	6	Washer				

PROTOTYPE



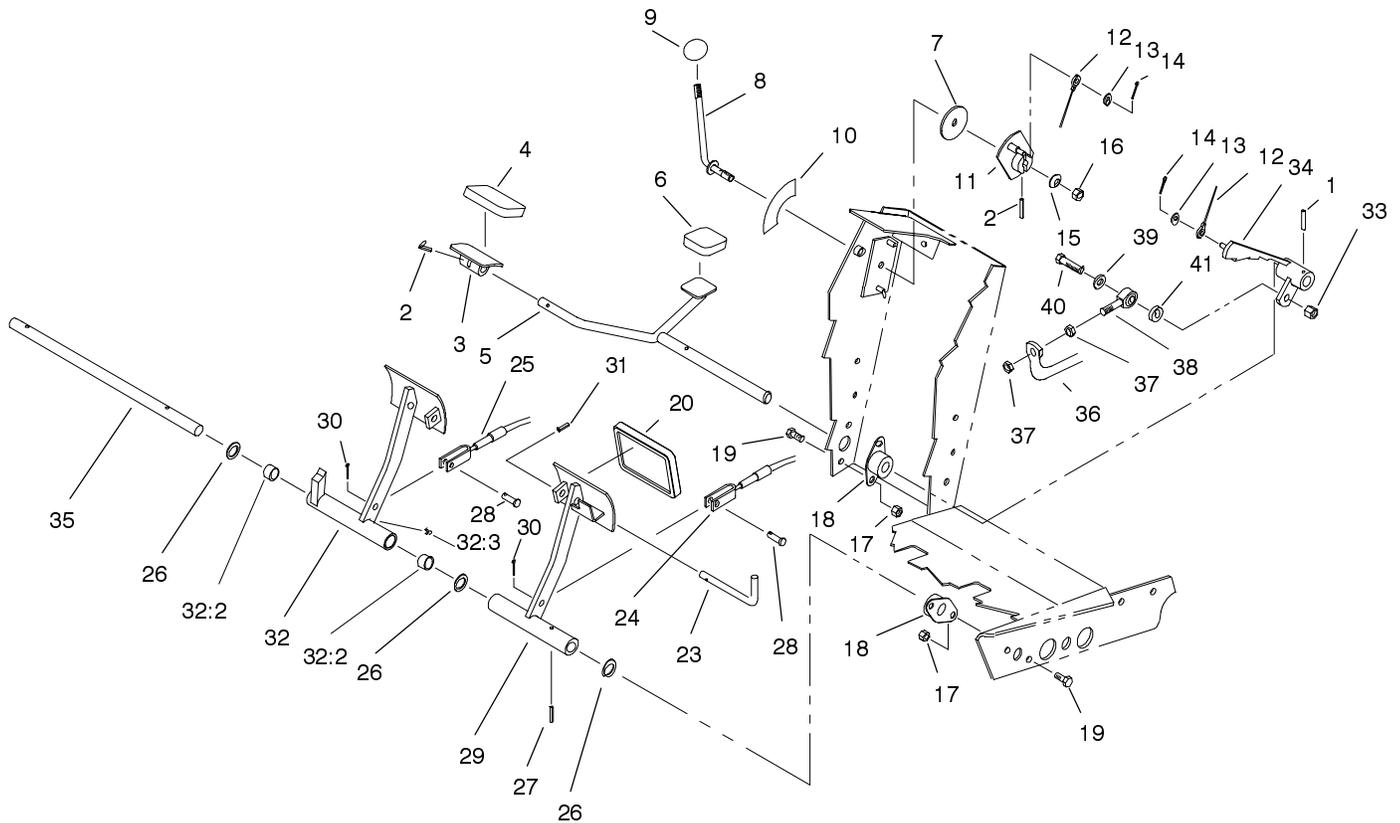
Parts not listed in partslist are not serviced seperately.

Sheet No.:A1
T-3216

Steering Valve Assembly No. 99-8959

Ref. No.	Part No.	Qty.	Description
1	94-4099	1	Kit - Seal
3	94-4095	1	Kit - Spring, Centering
5	94-4098	1	Ring - Retaining
6	94-4094	1	Pin
8	94-4096	1	Kit - Bearing
9	94-4088	7	Screw - Cap
10	94-4089	1	Cap - End
11	94-4090	1	Gerotor
12	94-4091	1	Spacer
13	94-4093	1	Drive
14	94-4092	1	Plate - Wear
15	94-4097	1	Plug ASM
16	94-4100	1	Ball

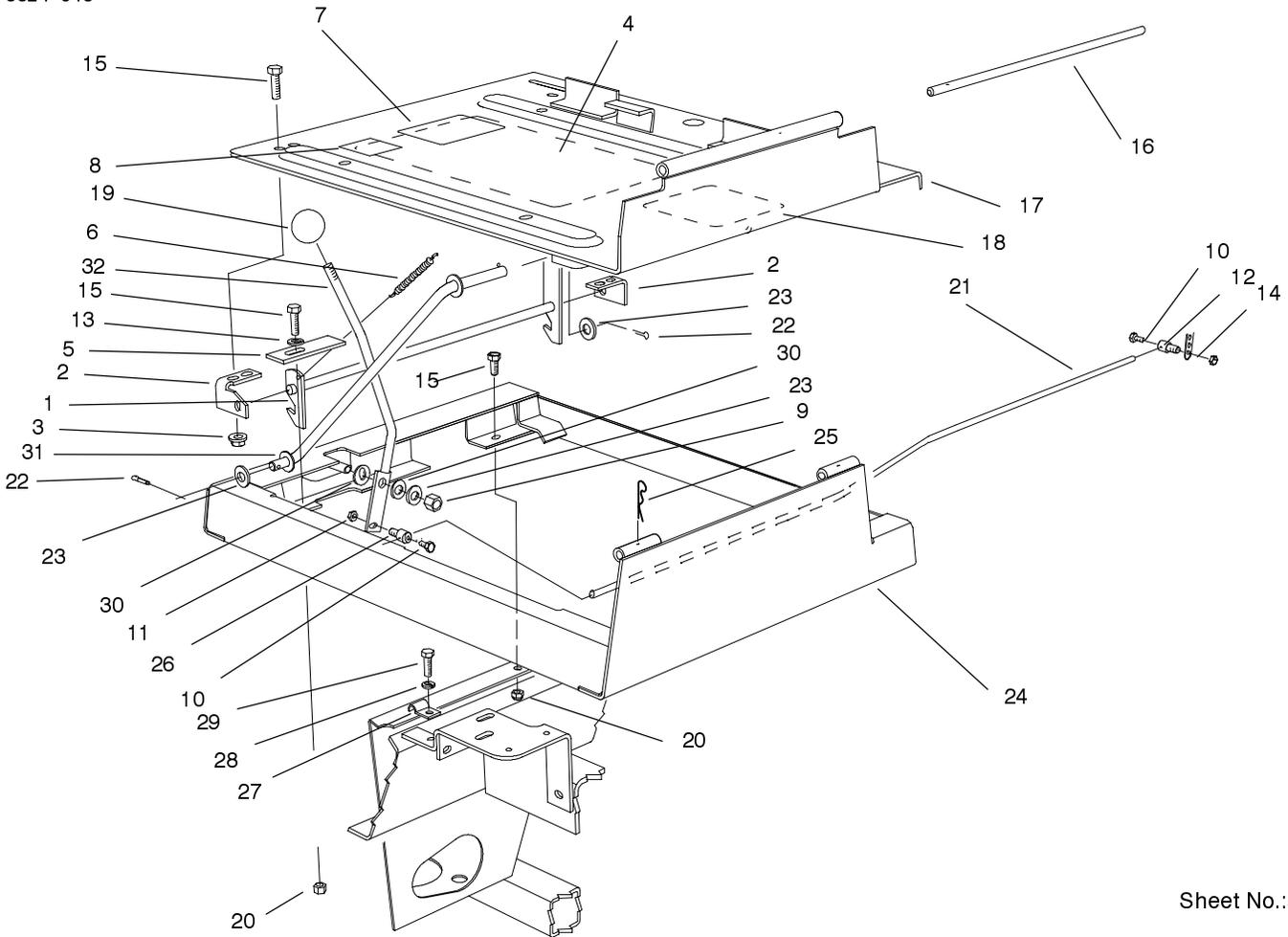
Ref. No.	Part No.	Qty.	Description
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Sheet No.:4

Traction And Brake Pedal Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	32121-6	1	Pin-Roll	28	283-58	2	Pin-Clevis
2	32121-45	2	Pin-Spring	29	75-1440-03	1	Pedal-Brake, LH
3	49-6440-03	1	Pedal-Forward	30	3272-10	2	Pin-Cotter
4	74-9100	1	Pad-Pedal, Forward	31	32121-50	1	Pin-Spring
5	75-2970	1	Pedal-Traction	32	75-1430	1	Pedal-Brake, RH
6	74-9110	1	Pad-Pedal, Reverse	32:2	256-42	2	Bushing
7	75-6550	1	Disc-Friction	32:3	302-5	1	Fitting-Lube
8	75-6490	1	Lever	33	3296-39	1	Nut-Lock, NI
9	233-42	1	Knob	34	75-3270-03	1	Hub-Pivot, Traction
10	93-6699	1	Decal - Fast/Slow	35	75-1470	1	Pin-Pivot, Brake
11	75-6510	1	Bracket-Lever	36	75-2170-03	1	Tube-Control, Pump
12	75-6580	1	Cable - Pedal	37	3220-3	2	Nut-Jam
13	3256-22	2	Washer-Flat	38	2411-36	1	Bearing-End, Rod
14	3272-2	2	Pin-Cotter	39	3256-24	1	Washer-Flat
15	3290-461	1	Washer-Spring	40	323-9	1	Screw-HH
16	3296-59	1	Nut-Lock, NI	41	5-0652	1	Spacer
17	3296-29	8	Nut-Lock, NI				
18	256-236	4	Bearing-Mount, Flange				
19	322-3	8	Screw-HH				
20	93-8742	2	Footpad - Brake				
23	63-7880	1	Pin-Latch, Brake				
24	63-7733	1	LH Brake Cable ASM				
25	63-7732	1	RH Brake Cable ASM				
26	3256-69	3	Washer-Flat				
27	32121-16	1	Pin-Spring				

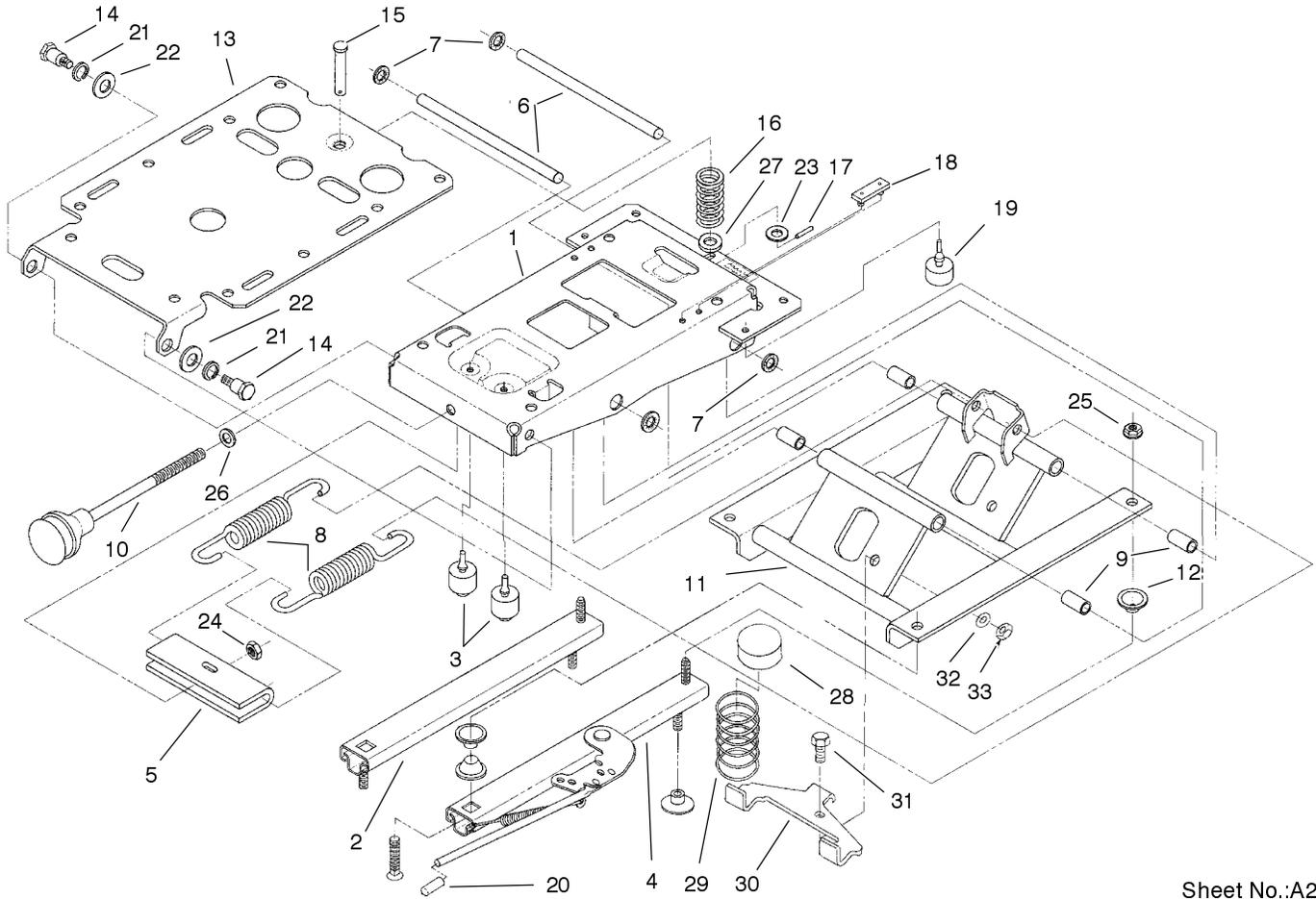


Sheet No.:5

Seat Frame And Throttle Assembly

Ref. No.	Part No.	Qty.	Description
1	98-2354-03	1	Latch-Seat
2	98-2353	2	Bracket-Latch, Seat
3	32128-25	4	Nut-Flange
4	104-0082	1	Decal - Clip / Solenoid Instructions
5	98-9302	1	Plate-Stop, Idler
6	66-4190-03	1	Spring-Idler, Clutch
7	92-5524	1	Decal-Rating, Noise
8	63-9920	1	Decal-Level, Noise
9	3296-39	1	Nut-Lock, NI
10	25-8640	2	Screw-Machine, HH
11	3296-3	1	Nut-Lock NI
12	98-9311	1	Swivel - Throttle
13	3256-23	1	Washer-Flat
14	3296-20	1	Nut-Lock NI
15	322-3	8	Screw-HH
16	75-3400	1	Shaft-Pivot, Seat
17	98-2350-03	1	Plate-Seat
18	93-8060	1	Decal - Reels
19	233-42	1	Knob
20	3296-29	4	Nut-Lock, NI
21	98-3926	1	Cable-Throttle
22	3272-10	2	Pin-Cotter
23	3256-24	3	Washer-Flat
24	98-2352-03	1	Frame-Seat
25	3290-467	1	Pin-Hair

Ref. No.	Part No.	Qty.	Description
26	93-0021	1	Swivel-Cable, Throttle
27	3-6657	1	Clip-Skid
28	3253-3	1	Washer-Lock/Sp
29	321-4	1	Screw-HH
30	66-2920	2	Washer-Friction, Throttle
31	75-3680-03	1	Rod-Seat
32	75-3430-03	1	Lever-Throttle

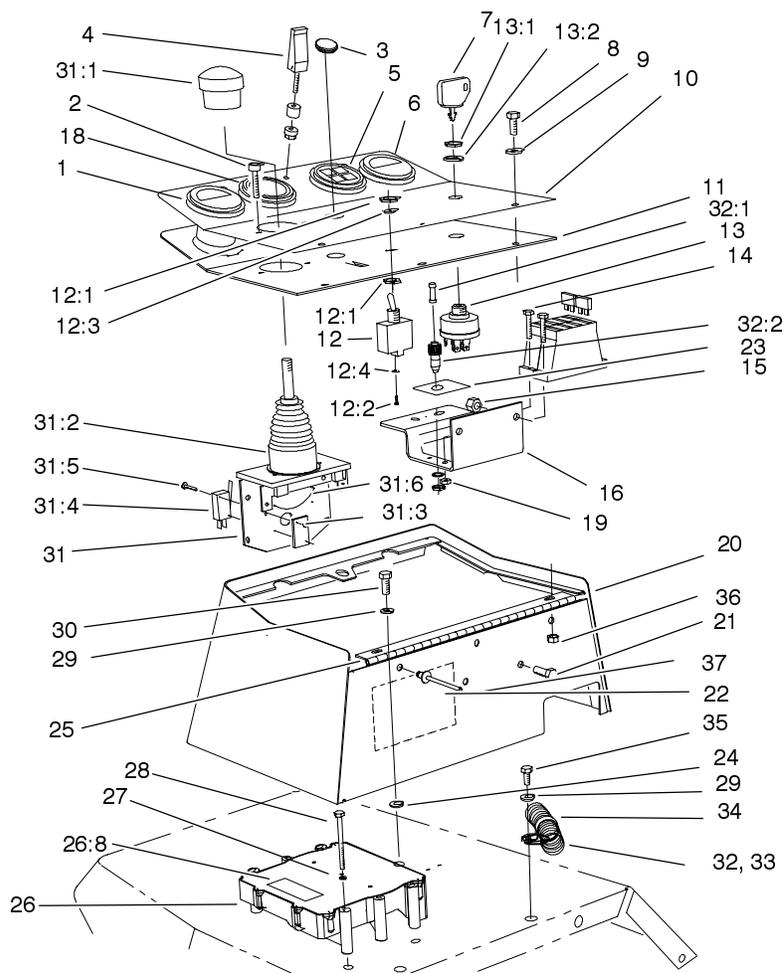


Seat Suspension Assembly No. 75-3000

Ref. No.	Part No.	Qty.	Description
1	75-3480	1	Frame-Upper
2	66-8530	1	Adjuster
3	66-8520	2	Bumper-Downstop
4	82-9060	1	Adjuster w/Handle
5	77-2870	1	Hanger-Spring
6	76-1910	2	Shaft-Pivot
7	66-8560	4	Nut-Push
8	76-1940	2	Spring-Extension
9	76-1920	4	Bearing-Sleeve
10	76-1930	1	Knob-Adjuster, Tension
11	66-8610	1	Frame-Lower
12	66-9290	6	Spacer-Suspension
13	75-3580	1	Plate-Seat
14	75-3510	2	Bolt
15	80-4860	1	Pin - Clevis
16	75-3530	1	Spring
17	75-3540	1	Pin-Roll
18	75-3550	2	Bumper
19	76-2940	2	Bumper
20	75-3570	1	Tip
21	3253-6	2	Washer-Lock/Sp
22	3256-26	2	Washer-Flat
23	3256-24	1	Washer-Flat
24	3296-44	1	Nut-Lock NI
25	32128-26	4	Nut-Flange

Ref. No.	Part No.	Qty.	Description
26	3256-46	1	Washer-Flat
27	3256-5	1	Washer-Flat
28	93-3164	2	Cap
29	93-3163	2	Spring
30	93-3165	1	Bracket
31	322-6	1	Screw-HH
32	3253-33	1	Washer-Lock
33	3217-6	1	Nut-Hex

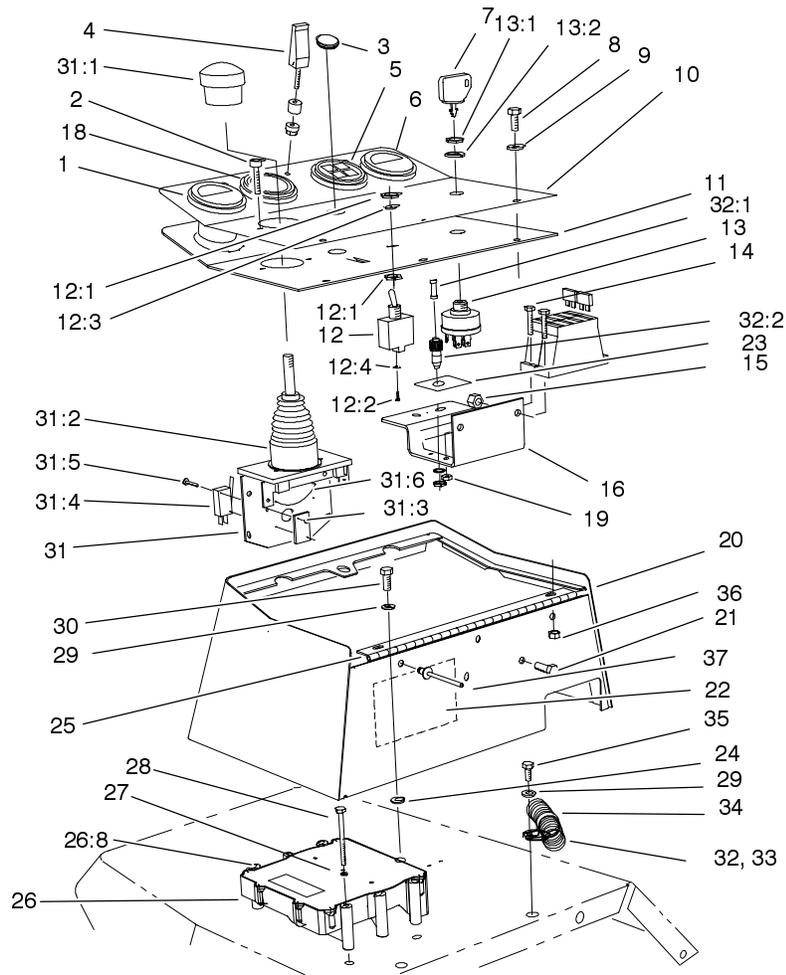
PROTOTYPE



Sheet No.:7

Control Console Assembly

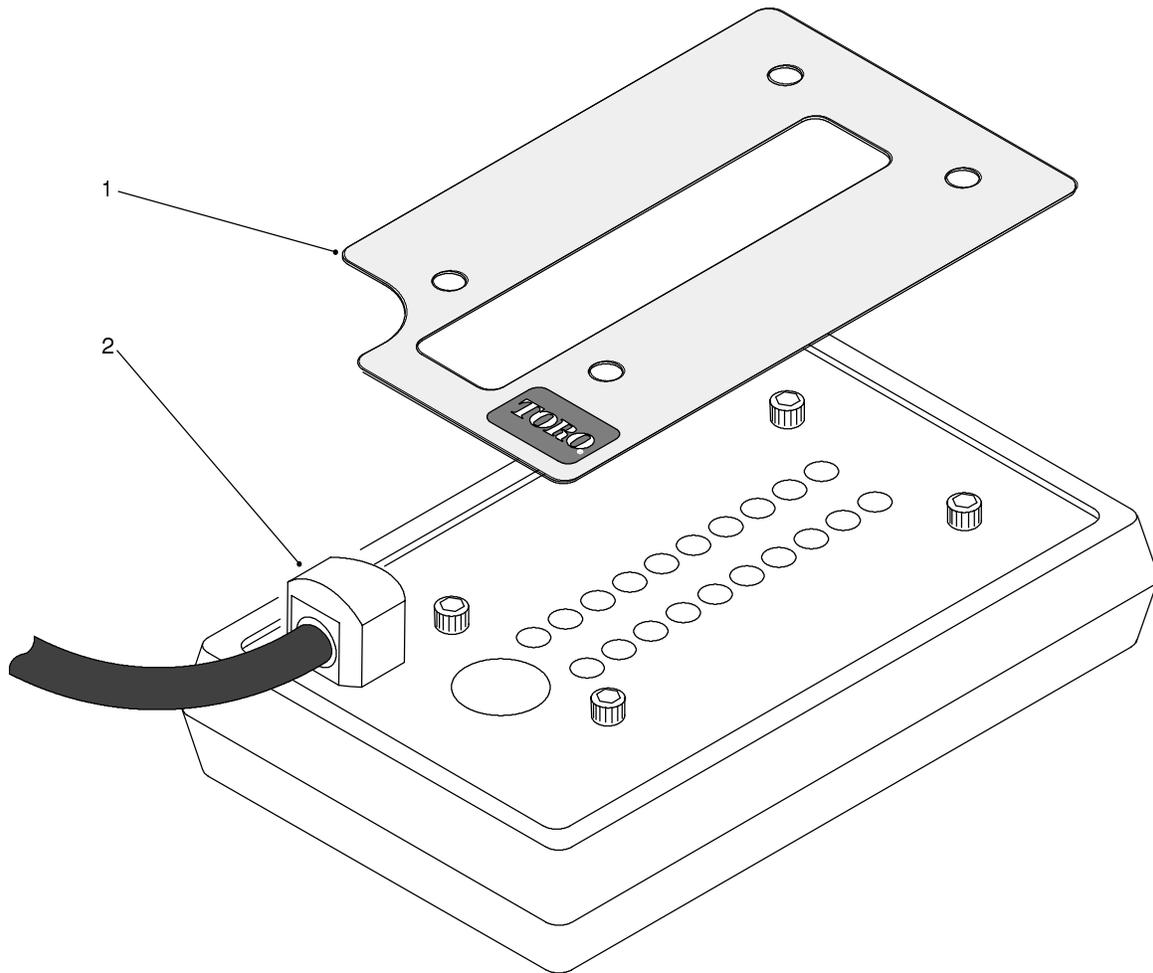
Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9339	1	Gauge - Fuel	19	3296-2	4	Nut-Lock
2	3273-26	2	Screw-HSH	20	75-5740-03	1	Box-Control
3	99-1087	1	Plug-Hole, Dash	21	321-39	2	Screw-HH
4	74-5950	1	Latch-Swell	22	94-6767	1	Decal - Fuses
5	98-9306	1	Light - Warning	23	98-9334	1	Decal - Controller
6	98-9308	1	Gauge - Temperature	24	52-2900	3	Washer
7	63-8360	1	Key-Ignition	25	75-5780	1	Hinge-Steel
8	3258-166	3	Screw	26	92-5720	1	Controller-Electronic
9	3256-1	3	Washer-Flat	26:8	93-8053	1	Decal
10	99-8961	1	Panel-Control	27	3253-3	2	Washer-Lock/Sp
11	75-6270-03	1	Cover-Box, Control	28	321-15	2	Screw-HH
12	99-8352	1	Switch - Backlap	29	3256-3	3	Washer-Flat
12:1	218-498	2	Locknut-Hex	30	322-3	2	Screw-HH
12:2	218-588	3	Screw	31	98-2195	1	Joystick
12:3	218-589	1	Washer	31:1	3290-489	1	Knob
12:4	3253-19	3	Washer-Lock/Sp	31:2	3290-488	1	Boot
13	27-2360	1	Switch-Key	31:3	3290-354	2	Nut-Speed
13:1	218-446	1	Nut-Hex	31:4	218-590	2	Switch
13:2	218-447	1	Washer-Lock	31:5	3290-93	4	Screw-Head, Pan
14	32105-13	4	Screw-Shh	31:6	93-3625	1	Spring - Return
15	3296-42	2	Nut-Lock	32	98-3946	1	Harness-Wire
16	93-7587	1	Bracket-Fuse Block/Panel	32:1	219-19	1	Lamp-Incandescent, Green
18	66-2950	1	Gauge-Hourmeter	32:2	85-4491	1	Light-Indicator
18:1	3255-20	2	Washer-Lock	33	94-6343	1	Decal-I.d., Wire
18:2	3217-25	2	Nut-Hex	34	2412-126	1	R-Clamp



Sheet No.:7

Control Console Assembly (Continued)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
35	322-5	1	Screw-HH				
36	32128-33	3	Nut-HF				
37	93-8744	3	Pop - Rivet				
PROTOTYPE							



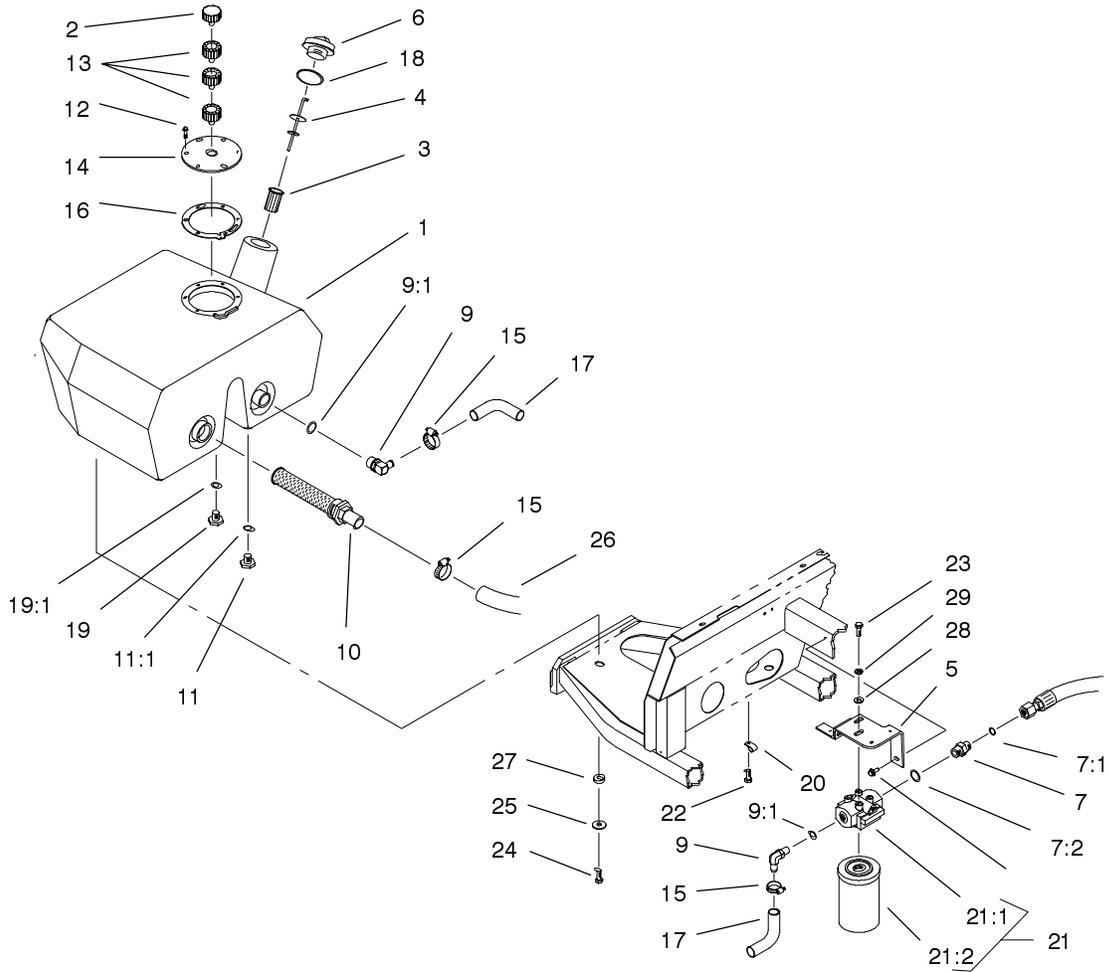
Sheet No.:A

T-1458

Diagnostic-ACE Display Assembly

Ref. No.	Part No.	Qty.	Description
1	104-0029	1	Decal Diagnostics, Danish
1	104-0030	1	Decal Diagnostics, Dutch
1	104-0031	1	Decal Diagnostics, Finish
1	104-0034	1	Decal Diagnostics, Italian
1	104-0033	1	Decal Diagnostics, German
1	104-0032	1	Decal Diagnostics, French
1	104-0036	1	Decal Diagnostics, Nowegian
1	104-0037	1	Decal Diagnostics, Polish
1	104-0038	1	Decal Diagnostics, Spanish
1	104-0039	1	Decal Diagnostics, Swedish
1	104-0083	1	Decal-Diagnostics
1	104-0035	1	Decal Diagnostics, Japanese
2	85-4750	1	Diagnostic Display Box

Ref. No.	Part No.	Qty.	Description
PROTOTYPE			

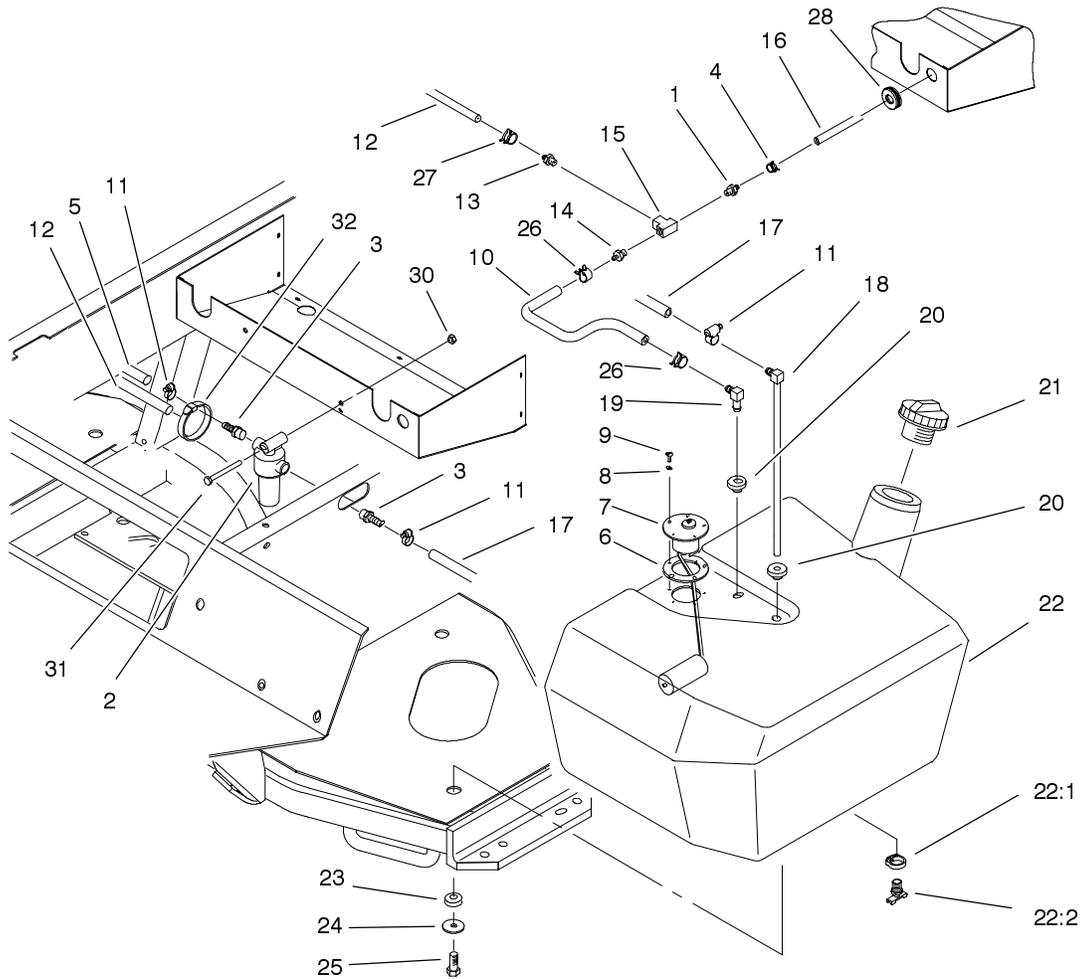


Sheet No.:8

Hydraulic Filter And Reservoir Assembly

Ref. No.	Part No.	Qty.	Description
1	104-0085	1	Tank - Oil
2	68-6150	1	Breather-Air
3	61-2790	1	Filter-Screen
4	94-9411	1	Dipstick
5	98-3917-01	1	Bracket-Filter
6	93-7498	1	Plug-Plastic
7	340-91	1	Adapter
7:1	237-58	1	O-Ring
7:2	237-146	1	O-Ring
8	32144-14	2	Screw-HWH
9	23-8910	2	Stem-Barb, 90°
9:1	237-146	1	O-Ring
10	104-1433	1	Strainer-Suction
11	353-508	1	Plug-O-Ring
11:1	237-42	1	O-Ring
12	33104-020	6	Screw-HHF
13	92-8020	3	Adapter - Breather
14	93-7588	1	Cover - Tank
15	2412-34	3	Clamp-Hose
16	93-7499	1	Gasket
17	98-3931	2	Hose-Formed
18	237-101	1	O-Ring
19	353-550	1	Plug-Hydraulic
19:1	237-79	1	O-Ring
20	2412-93	2	R-Clamp
21	98-3923	1	Filter Assembly-Oil

Ref. No.	Part No.	Qty.	Description
21:1	104-0080	1	Filter Head ASM
21:2	94-2621	1	Filter Element
22	32144-10	2	Screw-HWH
23	323-4	2	Screw-HH
24	33105-025	3	Screw-HHF
25	63-8410	3	Washer
26	75-6870	1	Hose-Inlet, Pump
27	240-11	3	Grommet-Mount, Tank
28	3256-24	2	Washer-Flat
29	3253-21	2	Washer-Lock

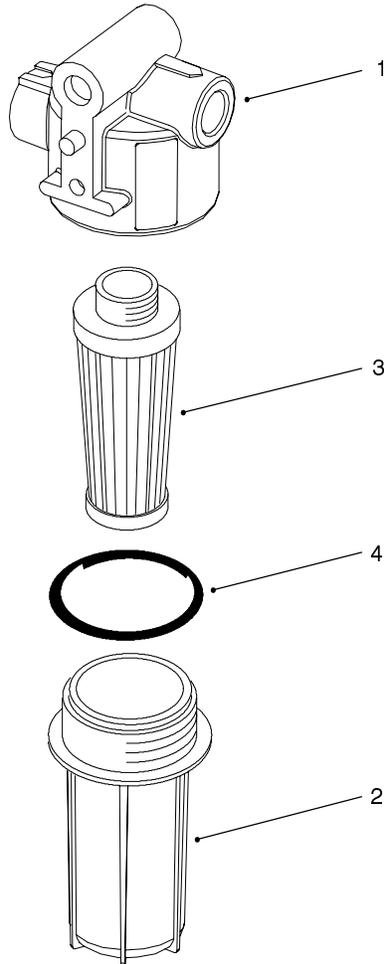


Sheet No.:9

Fuel Tank Assembly

Ref. No.	Part No.	Qty.	Description
1	304-73	1	Connector-Hose
2	99-8351	1	Filter - Fuel, Inline
3	353-783	2	Fitting-Pump
4	2412-98	1	Clamp
5	104-0078	1	Hose-Fuel
6	62-7650	1	Gasket
7	63-7640	1	Sender-Fuel
8	3253-15	5	Washer-Lock/Sp
9	32122-24	5	Screw-Pth
10	93-2042	1	Hose - Fuel
11	2412-108	4	Clamp-Worm
12	104-0077	1	Hose-Fuel
13	354-22	1	Fitting-Barb
14	354-21	1	Fitting-Barb
15	354-20	1	Fitting-Tee
16	98-9338	1	Hose - Fuel
17	104-0076	1	Hose-Fuel
18	66-8121	1	Standpipe
19	46-6550	1	Elbow-Connector, 90 DEG
20	46-6560	2	Bushing
21	93-3102	1	Cap-Fuel
22	104-0084	1	Tank - Fuel
22:1	2412-36	1	Clamp-Hose
22:2	304-46	1	Draincock

Ref. No.	Part No.	Qty.	Description
23	240-11	3	Grommet-Mount, Tank
24	63-8410	3	Washer
25	33105-025	3	Screw-HHF
26	92-2379	2	Clamp-Hose
27	2412-146	2	Clamp-Hose
28	240-9	1	Grommet
30	3296-42	1	Nut-Lock
31	321-11	1	Screw-HH
32	3290-378	1	Tie-Cable



2 — [2 & 4

4 — [3 & 4

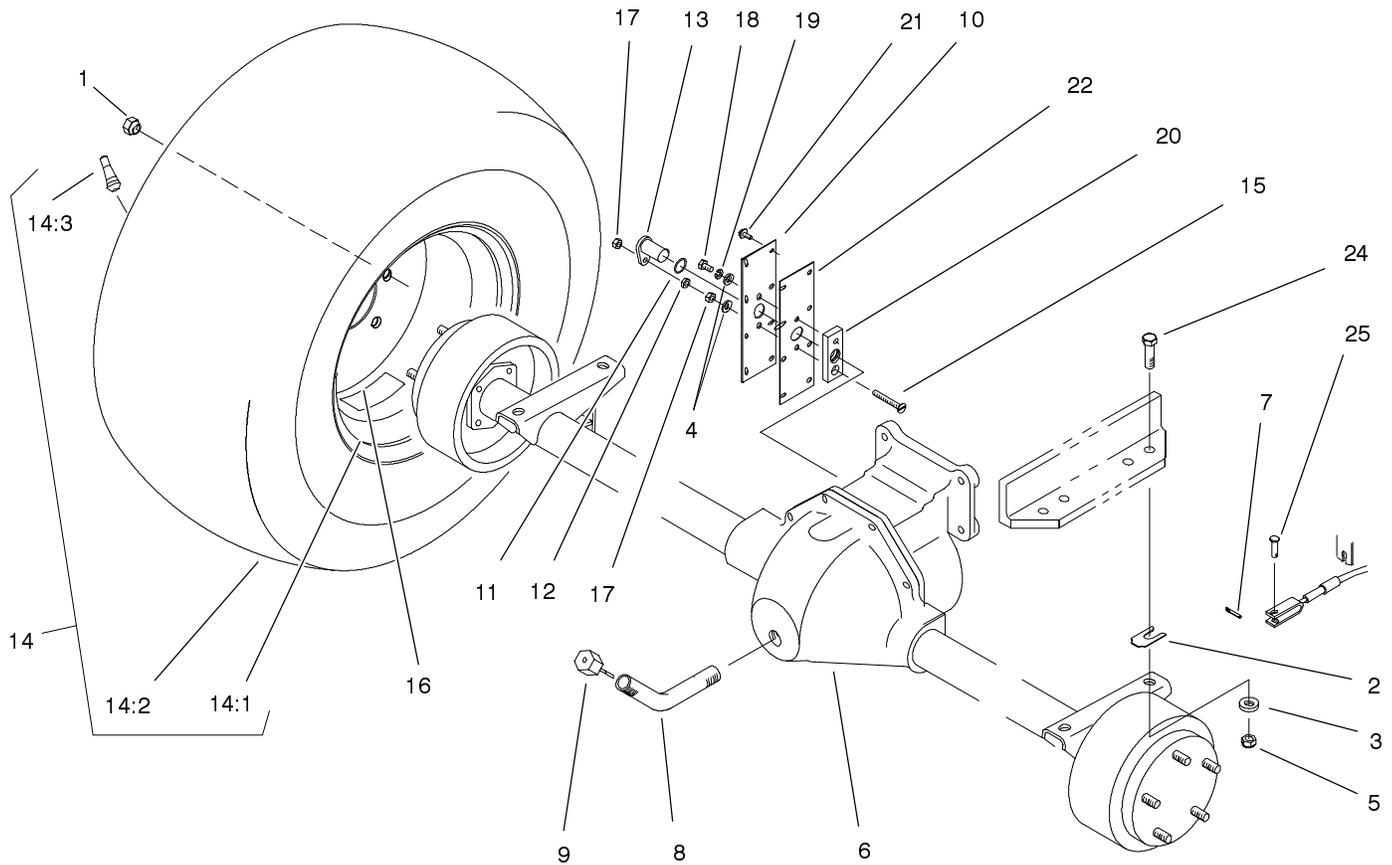
Sheet No.:A3

T-3100

Fuel Filter Assembly No. 99-8351

Ref. No.	Part No.	Qty.	Description
1	99-8356	1	Kit - Head w/Label
2	99-8357	1	Kit-Bowel, w/O-Ring
3	99-8358	1	Kit-Element, w/O-Ring
4	99-8359	1	O-Ring Replacement

Ref. No.	Part No.	Qty.	Description
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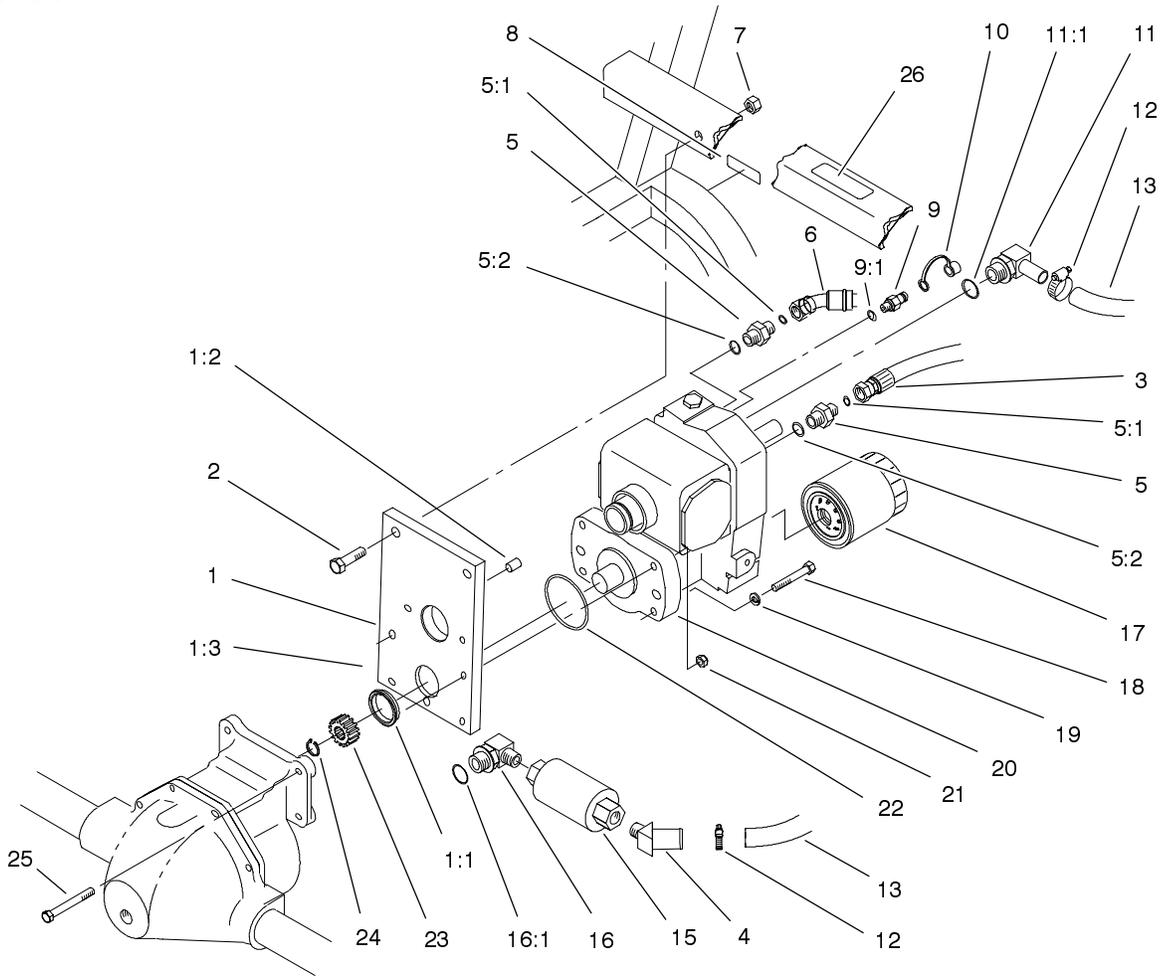


Sheet No.:10

Front Axle Assembly

Ref. No.	Part No.	Qty.	Description
1	23-7270	10	Nut-Wheel
2	42-6080	5	Shim-Axle
3	66-6480	4	Washer
4	3256-22	2	Washer-Flat
5	3296-48	4	Nut-Lock NI
6	99-6981-03	1	Drive Axle
7	3272-10	2	Pin-Cotter
8	75-6850	1	Tube-Fill, Oil
9	27-3710	1	Dipstick
10	85-4330	1	Cover-Gear
11	237-181	1	O-Ring
12	3218-1	1	Nut-Jam
13	85-4350	1	Sensor - Geartooth
14		2	Wheel And Tire ASM
14:1	99-6984	1	Wheel ASM
14:2	98-2373	1	Tire
14:3	232-27	1	Stem-Valve
15	32108-9	1	Screw-FH
16	76-8730	2	Decal-Torque, Wheel
17	3296-56	2	Nut-Lock, NI
18	321-2	1	Screw-HH
19	3253-3	1	Washer-Lock/Sp
20	85-4340	1	Plate-Sensor Mounting
21	32144-112	8	Screw-Forming, Thread

Ref. No.	Part No.	Qty.	Description
22	92-5797	1	Gasket - Axle
24	324-7	4	Screw-HH
25	283-58	2	Pin-Clevis



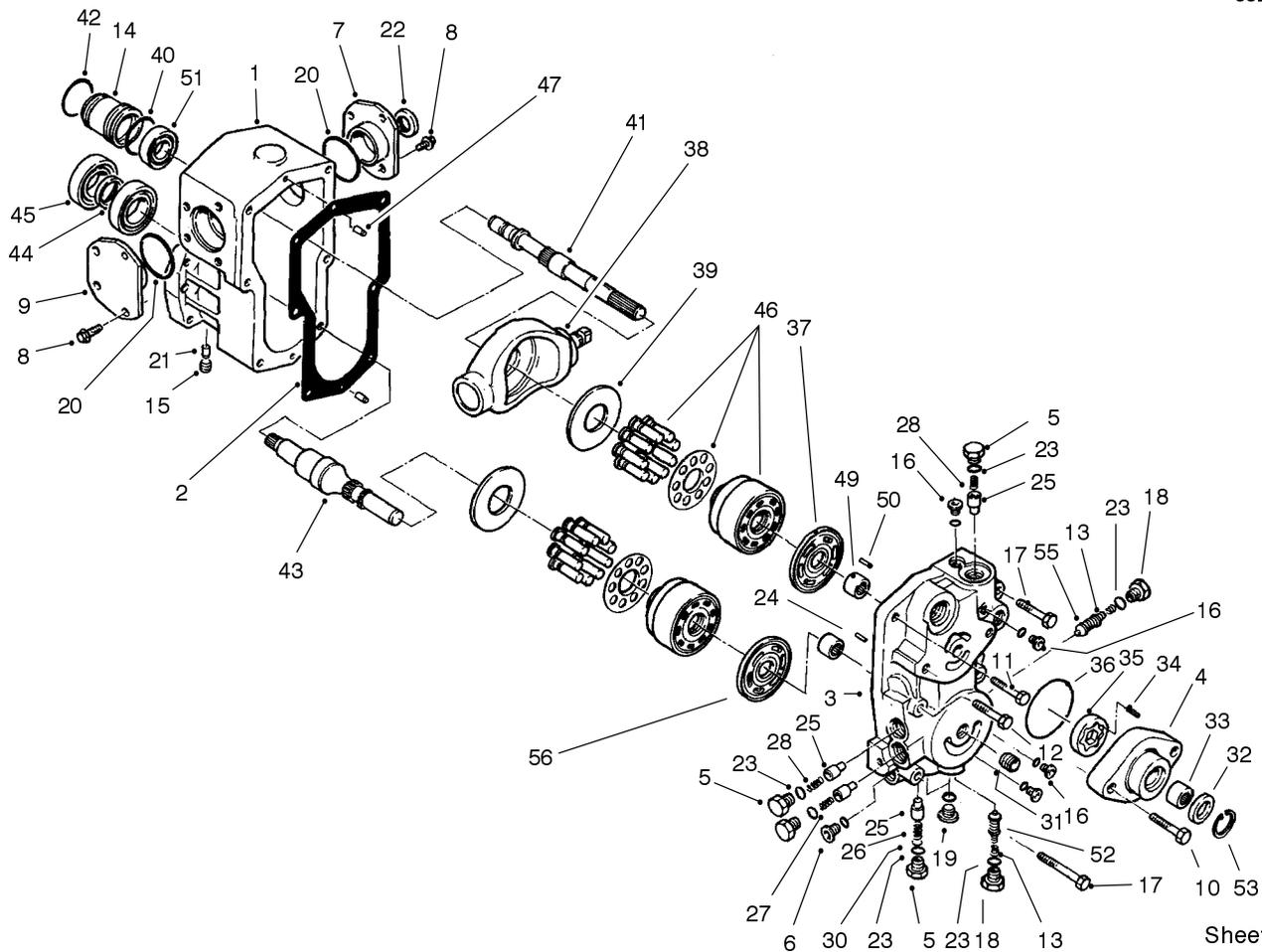
Sheet No.:11

Transmission Assembly

Ref. No.	Part No.	Qty.	Description
1	92-4846	1	Transmission Support ASM
1:1	75-3110	1	Transmission Collar
1:2	92-4808	1	Sleeve-Transmission
1:3	92-4809	1	Transmission Support
2	325-7	2	Screw-HH
3	104-0073	1	Hose ASM-Hydraulic
4	354-72	1	Fitting
5	340-3	2	Adapter
5:1	237-22	1	O-Ring
5:2	237-79	1	O-Ring
6	104-0072	1	Hose ASM-Hydraulic
7	3296-23	2	Nut-Lock, NI
8	93-6691	1	Decal-Bolt, Eccentric
9	354-77	1	Fitting-Quick
9:1	237-78	1	O-Ring
10	354-79	1	Cap - Fitting, Yellow
11	75-4720	1	Fitting-Line, Suction
11:1	237-81	1	O-Ring
12	2412-129	2	Clamp-Hose
13	75-6350	1	Hose
15	75-6340-03	1	Filter
16	354-75	1	Fitting
16:1	237-81	1	O-Ring
17	75-1330	1	Element-Filter
18	323-12	2	Screw-HH

Ref. No.	Part No.	Qty.	Description
19	3253-21	2	Washer-Lock
20	75-0012	1	Transmission
21	3296-39	2	Nut-Lock, NI
22	237-161	1	O-Ring
23	86-7220	1	Gear-Pinion
24	32151-62	1	Ring-Retaining
25	323-20	2	Screw-HH
26	88-6700	1	Decal - Ansi

PROTOTYPE



Sheet No.:A4

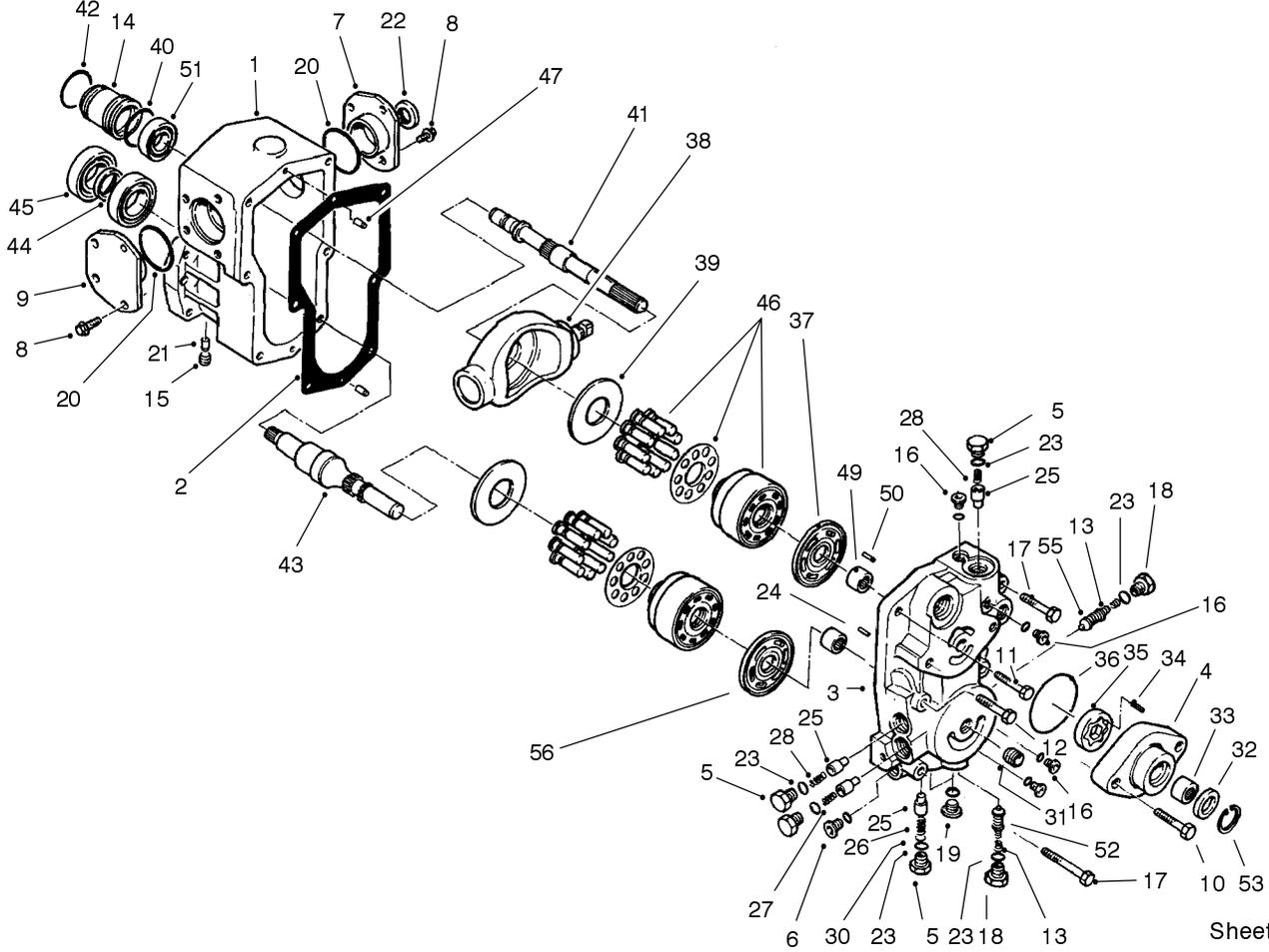
T-1006

Transmission Assembly No. 75-0012

Ref. No.	Part No.	Qty.	Description
1	75-0020	1	Housing
2	75-0030	1	Gasket-Housing
3	75-0040	1	Section-Center
4	83-4780	1	Housing-Pump, Charge
5	75-0060	4	Plug
6	75-0070	1	Plug
7	86-7520	1	RH Trunnion Cover ASM
8	75-0090	8	Capscrew-HH
9	86-7530	1	LH Trunnion Cover ASM
10	75-0110	2	Capscrew-HH
11	75-0120	1	Capscrew-HH
12	75-0130	3	Capscrew-HH
13	75-0140	1	Spring-Conical
14	75-0150	1	Guide-Seal
15	75-0160	1	Plug-Pipe
16	75-0170	4	Plug-Thread, Straight
17	75-0180	2	Capscrew-HH
18	75-0190	2	Plug-Special
19	75-0200	2	Plug-Thread, Straight
20	75-0210	2	O-Ring
21	75-0220	2	Pin
22	75-0230	1	Seal-Lip
23	75-0240	6	O-Ring

Ref. No.	Part No.	Qty.	Description
24	75-0250	1	Spring
25	75-0260	4	Valve - Relief
26	75-0270	1	Spring
27	75-0280	1	Spring
28	75-0290	2	Spring
30	75-0310	1	Shim
31	75-0320	1	Nipple
32	75-0330	1	Seal-Lip
33	75-0340	1	Bearing-Needle
34	75-0350	1	Pin
35	75-0360	1	Gerotor
36	75-0370	1	O-Ring
37	75-0380	1	Plate-Valve
38	75-0390	1	Plate-Swash
39	75-0400	2	Plate-Thrust
40	75-0410	1	O-Ring
41	86-7540	1	Shaft-Pump
42	75-0430	1	Ring-Retaining
43	75-0440	1	Shaft-Motor
44	75-0450	1	Collar
45	75-0460	2	Bearing-Ball
46	75-0470	2	Kit-Block, Cylinder
47	75-0480	2	Pin
49	75-0500	2	Bearing-Needle
50	75-0510	1	Pin
51	75-0520	1	Bearing-Ball

3324-948



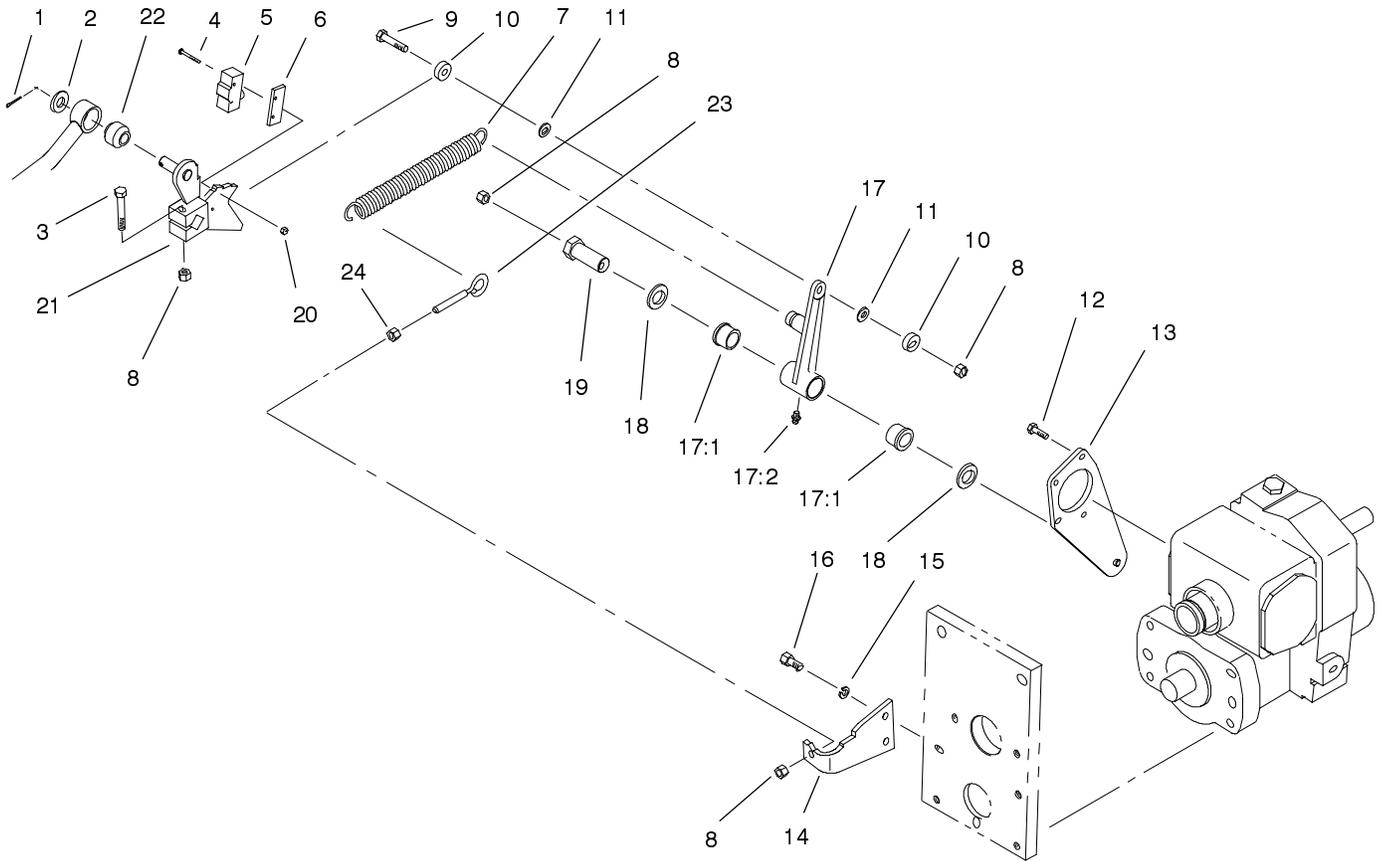
Sheet No.:A4
T-1006

Transmission Assembly No. 75-0012 (Continued)

Ref. No.	Part No.	Qty.	Description
52	75-6930	1	Valve-Screw
53	32120-74	1	Snap-Ring
55	93-0097	1	Valve-Screw
56	93-0083	1	Plate-Valve

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

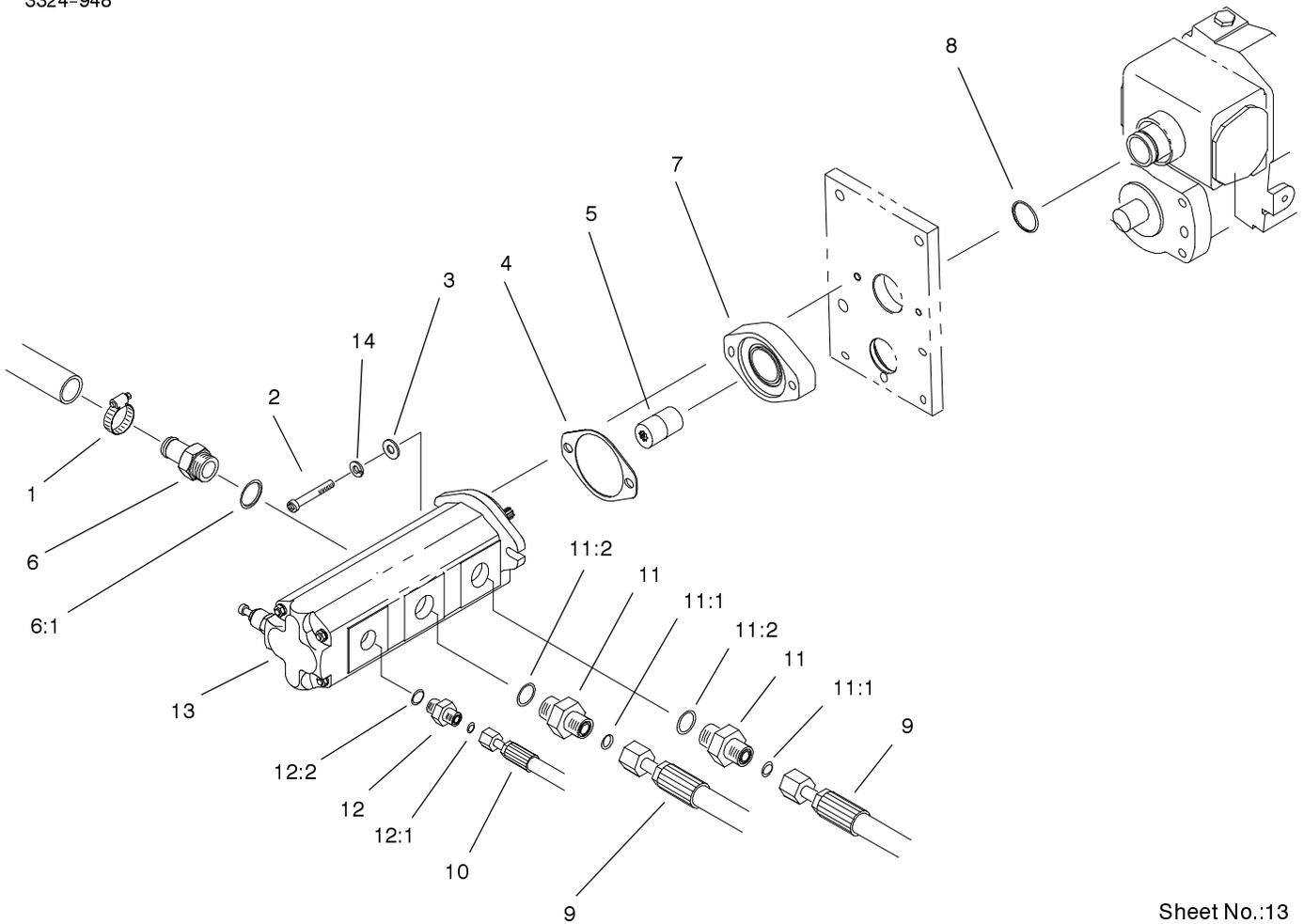


Sheet No.:12

Traction Control Assembly

Ref. No.	Part No.	Qty.	Description
1	3272-10	1	Pin-Cotter
2	3256-26	1	Washer-Flat
3	322-10	1	Screw-HH
4	32105-21	2	Screw-HH
5	29-6162	1	Switch-Micro
6	75-4130	1	Plate-Switch
7	76-9430-03	1	Spring-Ext.
8	3296-29	4	Nut-Lock, NI
9	322-7	1	Screw-HH
10	251-307	2	Bearing-Ball
11	75-5470	2	Spacer-Bearing
12	32144-22	4	Screw
13	75-4080-03	1	Plate-Traction
14	85-9900-03	1	Plate-Anchor, Spring
15	3253-4	2	Washer
16	322-3	2	Screw-HH
17	92-2581	1	Neutral Switch Arm ASM
17:1	256-113	2	Bushing-Flange
17:2	302-5	1	Fitting-Lube
18	3-6498	2	Washer-Thrust
19	76-8640	1	Stud - Traction
20	3296-9	2	Nut-Lock NI
21	75-4100-03	1	Control-Pump
22	23-2270	1	Bushing-Rubber

Ref. No.	Part No.	Qty.	Description
23	85-9910	1	Eyebolt
24	3217-6	1	Nut-Hex



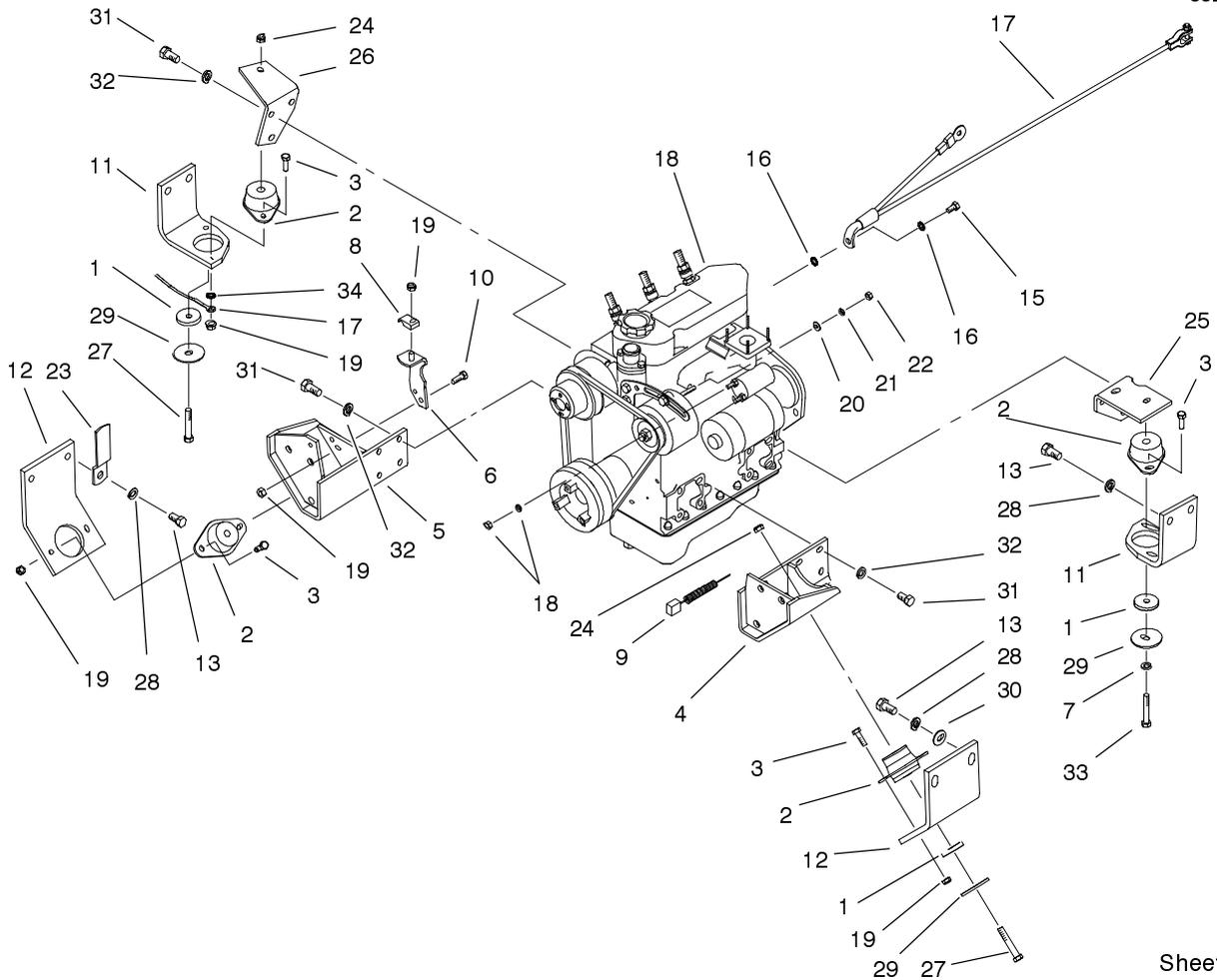
Sheet No.:13

Gear Pump Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	2412-34	1	Clamp-Hose
2	92-4037	2	Capscrew-HSH
3	3256-24	2	Washer-Flat
4	93-3604	1	Gasket
5	93-1396	1	Coupler
6	354-78	1	Connector-Hose
6:1	237-146	1	O-Ring
7	75-4400-03	1	Adaptor
8	237-163	1	O-Ring
9	104-0050	2	Hose ASM-Hyd
10	104-0051	1	Hose ASM-Hyd
11	340-7	2	Adapter
11:1	237-65	1	O-Ring
11:2	237-80	1	O-Ring
12	340-2	1	Adapter
12:1	237-22	1	O-Ring
12:2	237-42	1	O-Ring
13	99-6933	1	Gear Pump
14	3253-5	2	Washer-Lock/Sp

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

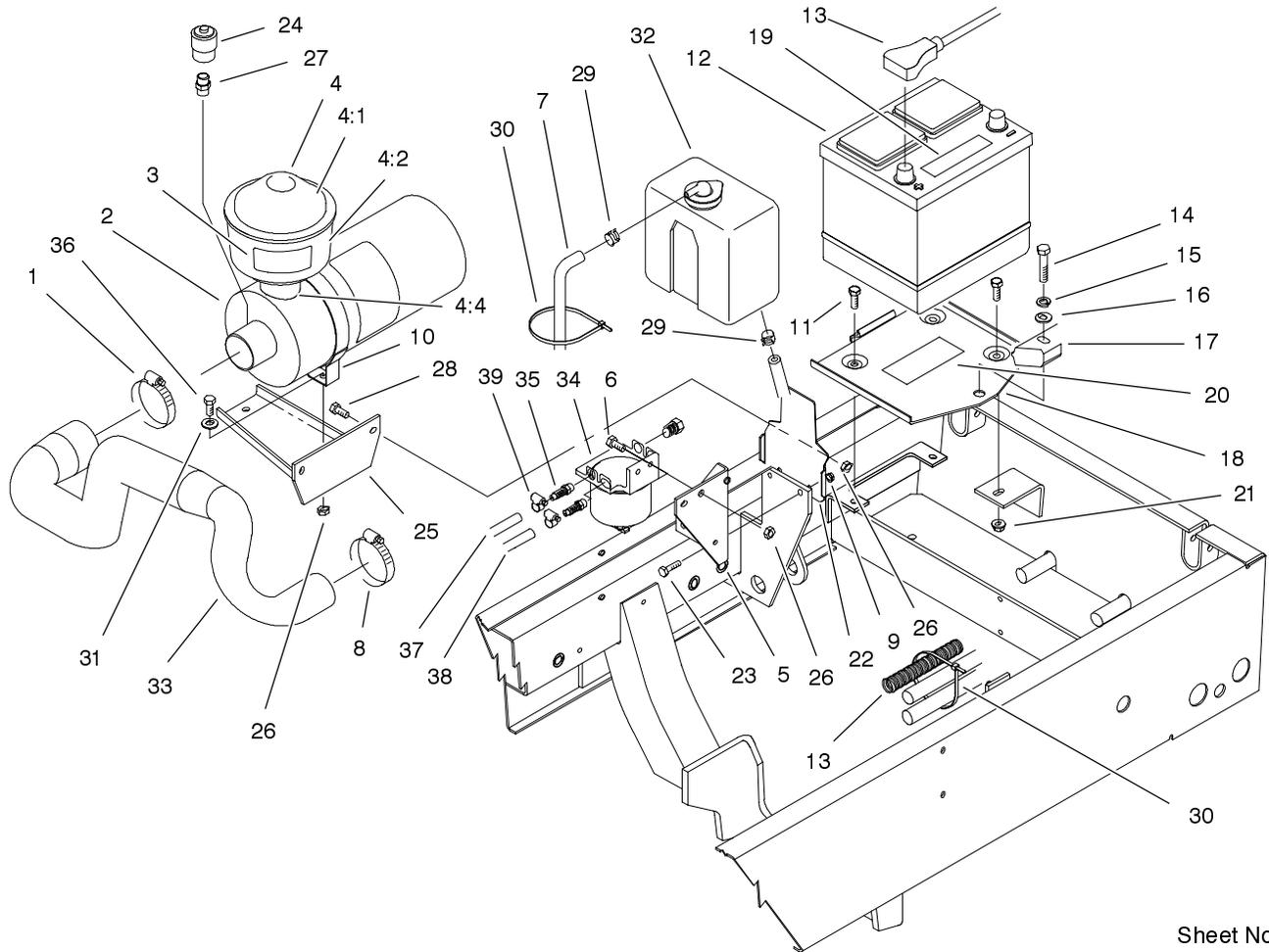


Sheet No.:14

Engine Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	83-1050	4	Spacer
2	83-1030	4	Mount-Engine
3	322-5	8	Screw-HH
4	98-4539-03	1	Bracket-Eng Mt, LH
5	98-4543-03	1	Bracket-Eng Mt, RH
6	98-9749	1	Plate - Throttle
7	3253-21	1	Washer-Lock
8	3-6657	1	Clip-Skid
9	99-3441	1	Harness - Wire, Fusible Link
10	322-4	2	Screw-HH
11	98-4513-03	2	Brkt - Engine, Rear
12	104-1474-03	2	Bracket-Engine, Front
13	3213-2	8	Screw-HH
15	98-9322	1	Bolt-HH, Metric
16	3255-9	2	Washer-Lock/Ext
17	98-4598	1	Cable-Battery, Negative
18	57-6390	1	Jam Nut
18	42-9850	1	Washer-Lock, Spring
18	104-0095	1	Engine-Kubota
19	3296-29	11	Nut-Lock, NI
20	3256-78	1	Washer-Flat
21	43-5930	1	Washer-Spring
22	48-7890	1	Nut
23	98-4594	1	Clamp - Retainer

Ref. No.	Part No.	Qty.	Description
24	32128-36	3	Nut-HF
25	98-4515-03	1	Bracket-Rear Engine, LH
26	98-4514-03	1	Bracket-Rear Engine, RH
27	323-12	3	Screw-HH
28	3253-7	8	Washer-Lock/Sp
29	87-5100	4	Washer - Snubbing
30	3256-40	4	Washer-Flat
31	43-0090	14	Bolt/Washer
32	42-9600	14	Lockwasher-Spring
33	323-10	1	Screw-HH
34	3255-8	1	Washer-Lock/Ext

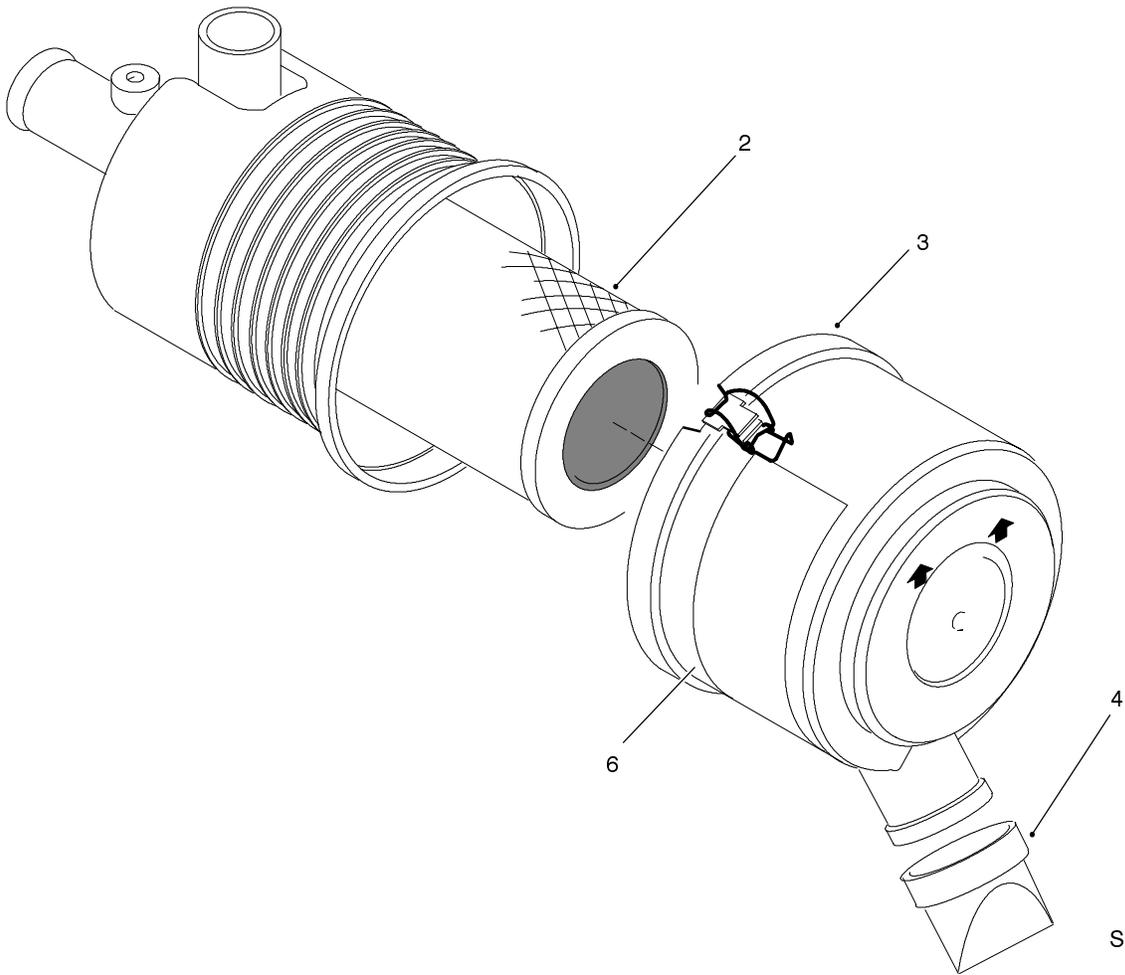


Sheet No.:16

Engine Components Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	2412-42	1	Clamp-Hose	22	98-4576-03	1	Bracket-Reservoir, Water
2	98-4517	1	Air Cleaner ASM	23	321-5	2	Screw-HH
3	93-6692	1	Decal-Fluid, Starting	24	93-9164	1	Indicator - Mini
4	48-7430	1	Precleaner	25	98-4518-03	1	Bracket-Cleaner, Air
4:1	33-1260	1	Cover ASM	26	3296-29	6	Nut-Lock, NI
4:2	33-1270	1	Bowl-Clear	27	94-1416	1	Indicator Adapter ASM
*4:3	62-6300	1	Sleeve ASM	28	322-5	2	Screw-HH
4:4	94-6873	1	Clamp	29	92-2379	2	Clamp-Hose
5	98-4578-03	1	Bracket-Filter, Fuel	30	3290-378	2	Tie-Cable
6	3234-29	2	Screw-HHF	31	3256-23	2	Washer-Flat
7	63-7630	1	Hose	32	98-9323	1	Bottle-Overflow, Water
8	2412-92	1	Clamp-Hose	33	98-4509	1	Hose - Air Cleaner
9	32128-33	2	Nut-HF	34	98-9305	1	Filter-Water/Fuel
10	98-4525	1	Bracket-Cleaner, Air	35	353-783	2	Fitting-Pump
11	322-4	3	Screw-HH	36	322-6	2	Screw-HH
12	66-2750	1	Battery	37	71-3381	1	Hose-Fuel
13	104-0086	1	Cable - Battery, Positive	38	95-4275	1	Hose - Fuel
14	323-9	1	Screw-HH	39	2412-108	4	Clamp-Worm
15	3253-21	1	Washer-Lock				
16	3256-24	1	Washer-Flat				
17	66-2490	1	Retainer-Battery				
18	94-7343	1	Base-Battery, ASM				
19	93-6668	1	Decal - Battery				
20	93-7276	1	Decal-Danger				
21	32128-20	1	Nut-HF				

* Not illustrated



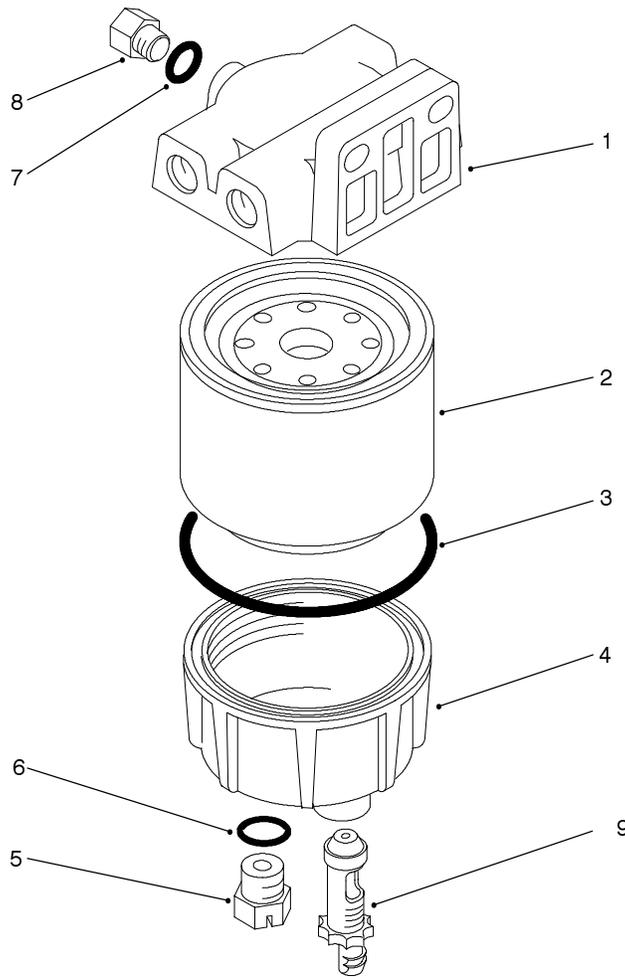
Sheet No.:A9
T-2903

Air Cleaner Assembly No. 98-4517

Ref. No.	Part No.	Qty.	Description
2	98-9763	1	Element ASM
3	98-9771	1	Cover ASM
4	94-1414	1	Valve - Vacuator
6	98-9788	1	Decal - Instruction

Ref. No.	Part No.	Qty.	Description

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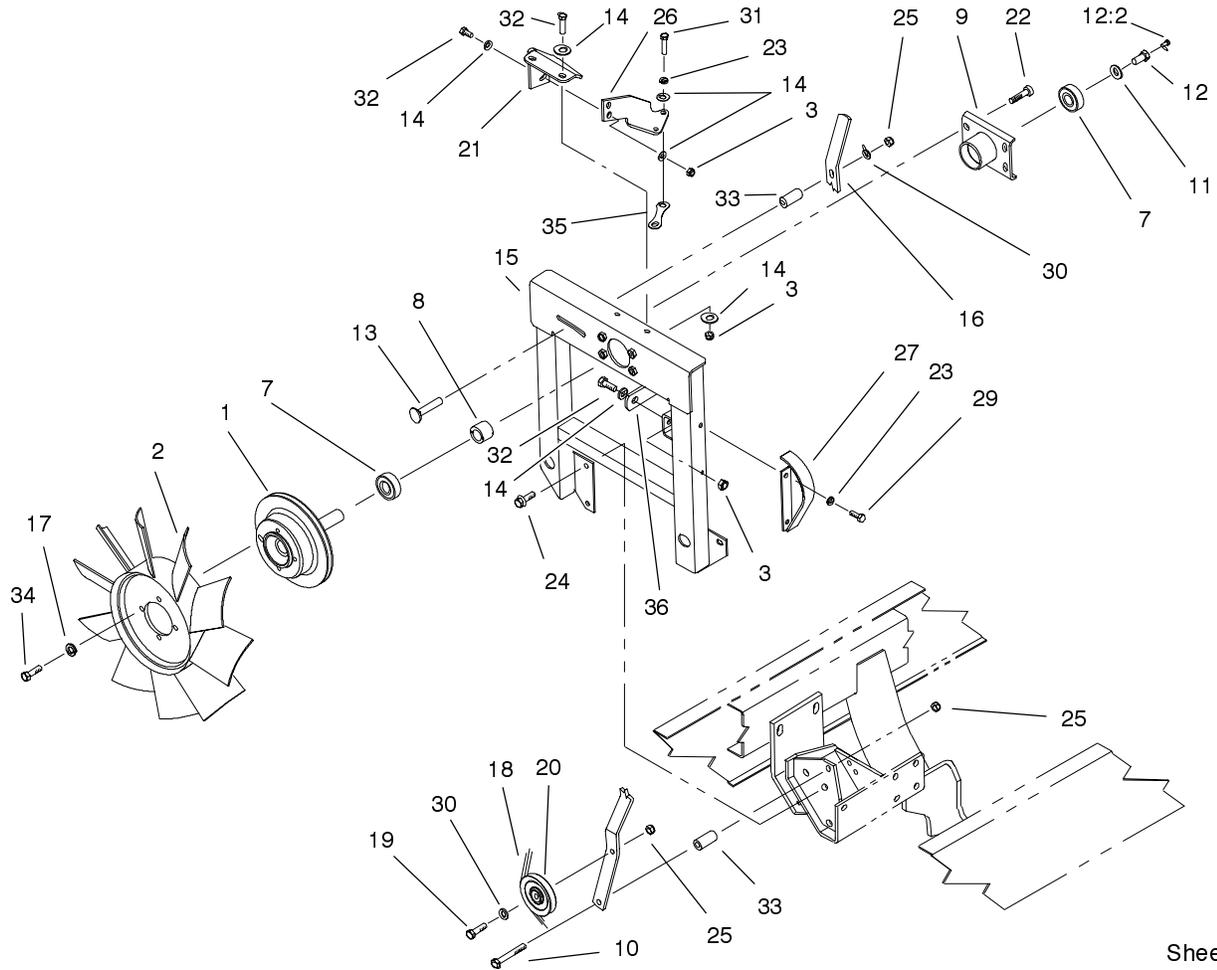


Sheet No.:B1
T-3330

Water/Fuel Separator Assembly No. 98-9305

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9772	1	Head - Filter				
2	98-9764	1	Element-On, Spin				
3	98-9774	1	O-Ring-Base, Filter				
4	98-9775	1	Base - Filter				
5	98-9773	1	Plug - Base, Filter				
6	237-42	1	O-Ring				
7	237-78	1	O-Ring				
8	98-9776	1	Plug-Filter, Head				
9	98-9777	1	Drain Valve ASM				

PROTOTYPE



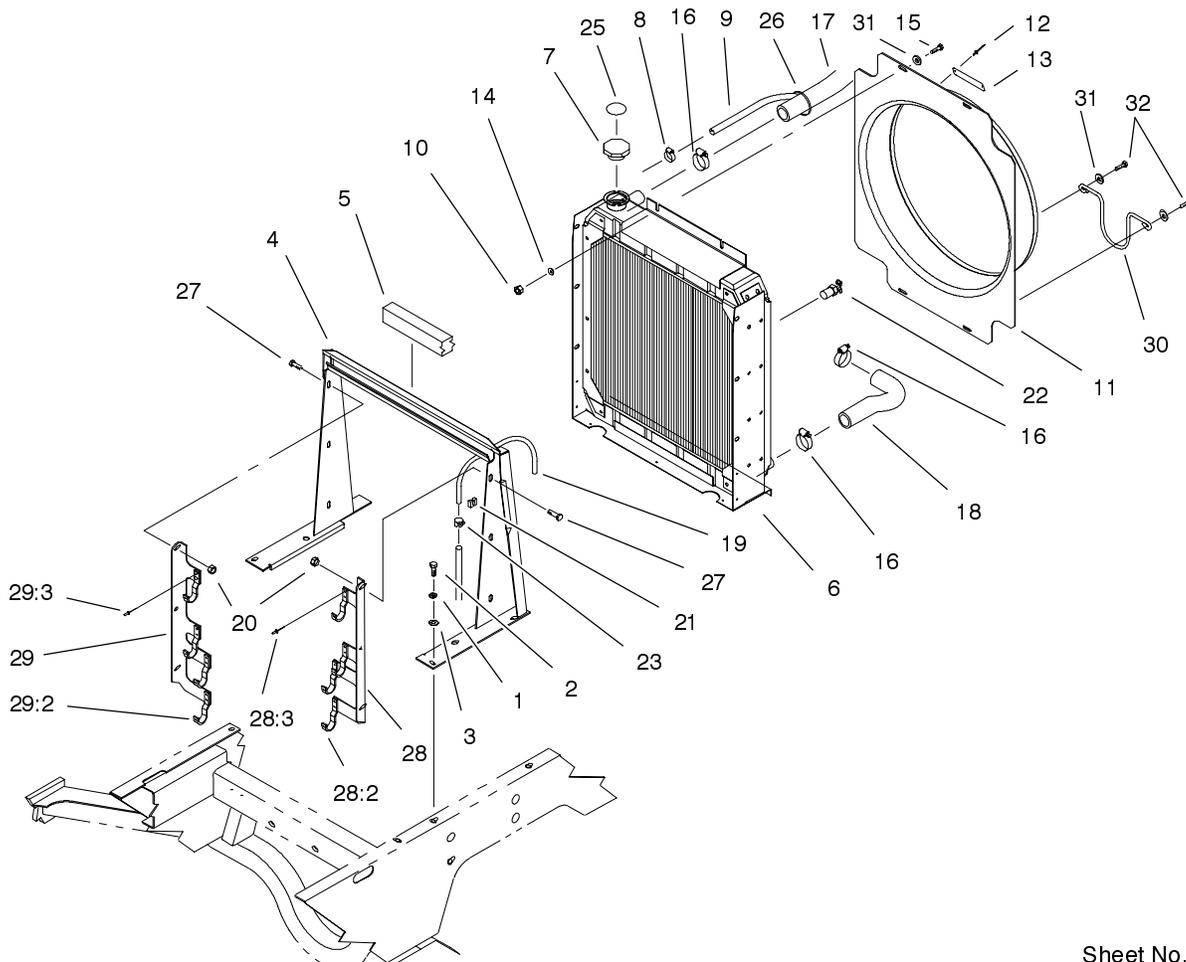
Sheet No.:17

Fan Drive Assembly

Ref. No.	Part No.	Qty.	Description
1	104-0000-03	1	Pulley
2	99-6937	1	Fan
3	3296-29	5	Nut-Lock, NI
7	251-318	2	Bearing
8	104-0001	1	Spacer
9	104-0017-03	1	Hub ASM
10	323-12	1	Screw-HH
11	63-8410	1	Washer
12	11-0160	1	Roller Shaft Screw ASM
12:2	302-5	1	Fitting-Lube
13	104-1487	1	Bolt-CARR
14	3256-23	11	Washer-Flat
15	104-1440-03	1	Support-Fan
16	104-0006-03	1	Lever - Fan Idler
17	3253-4	4	Washer
18	98-3921	1	Belt
19	104-1486	1	Screw - HSBH
20	63-8140	1	Pulley-Idler
21	104-1447-03	1	Bracket-Fan, Support
22	3274-12	4	Screw-HSH
23	42-9850	4	Washer-Lock, Spring
24	3234-29	6	Screw-HHF
25	3296-59	3	Nut-Lock, NI
26	104-1481-03	1	Bracket-Mount, Fan
27	98-4561-03	1	Shield-Alternator

Ref. No.	Part No.	Qty.	Description
29	32144-14	2	Screw-HWH
30	3256-24	1	Washer-Flat
31	33114-020	2	Screw-HH
32	322-4	5	Screw-HH
33	104-0007	2	Spacer
34	322-3	4	Screw-HH
35	104-1482	1	Plate-Washer

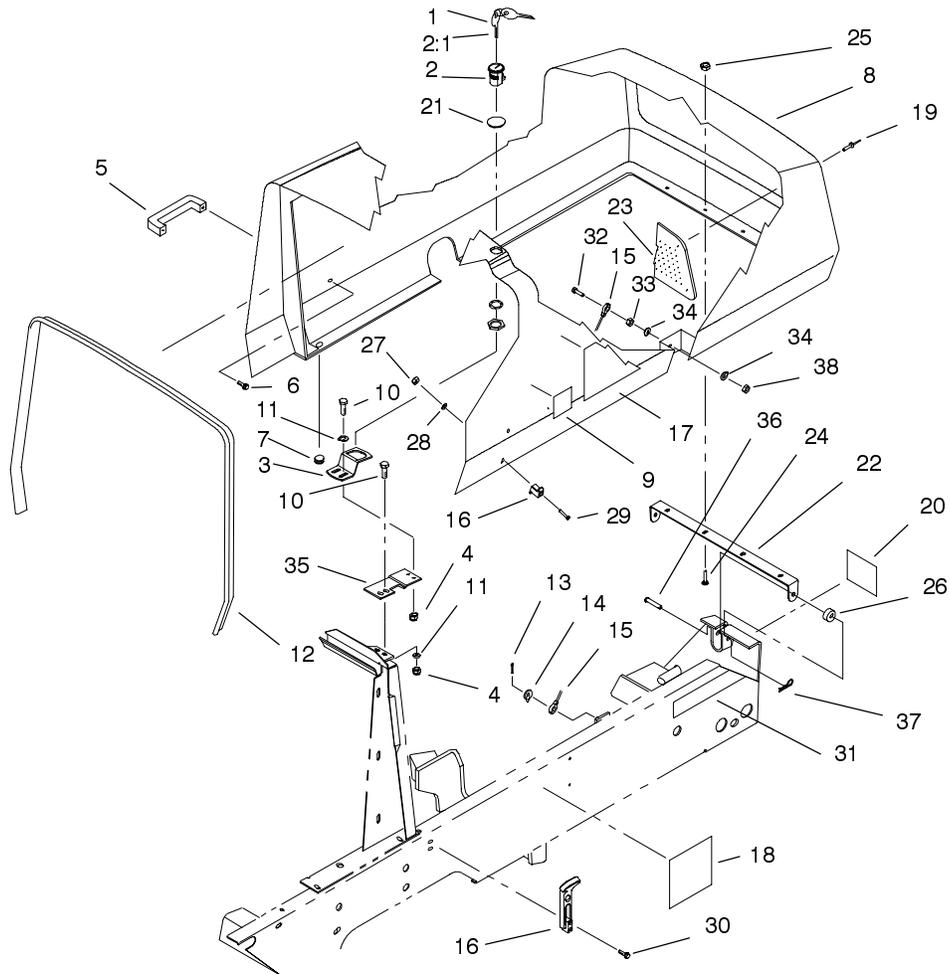
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Sheet No.:18

Radiator Assembly

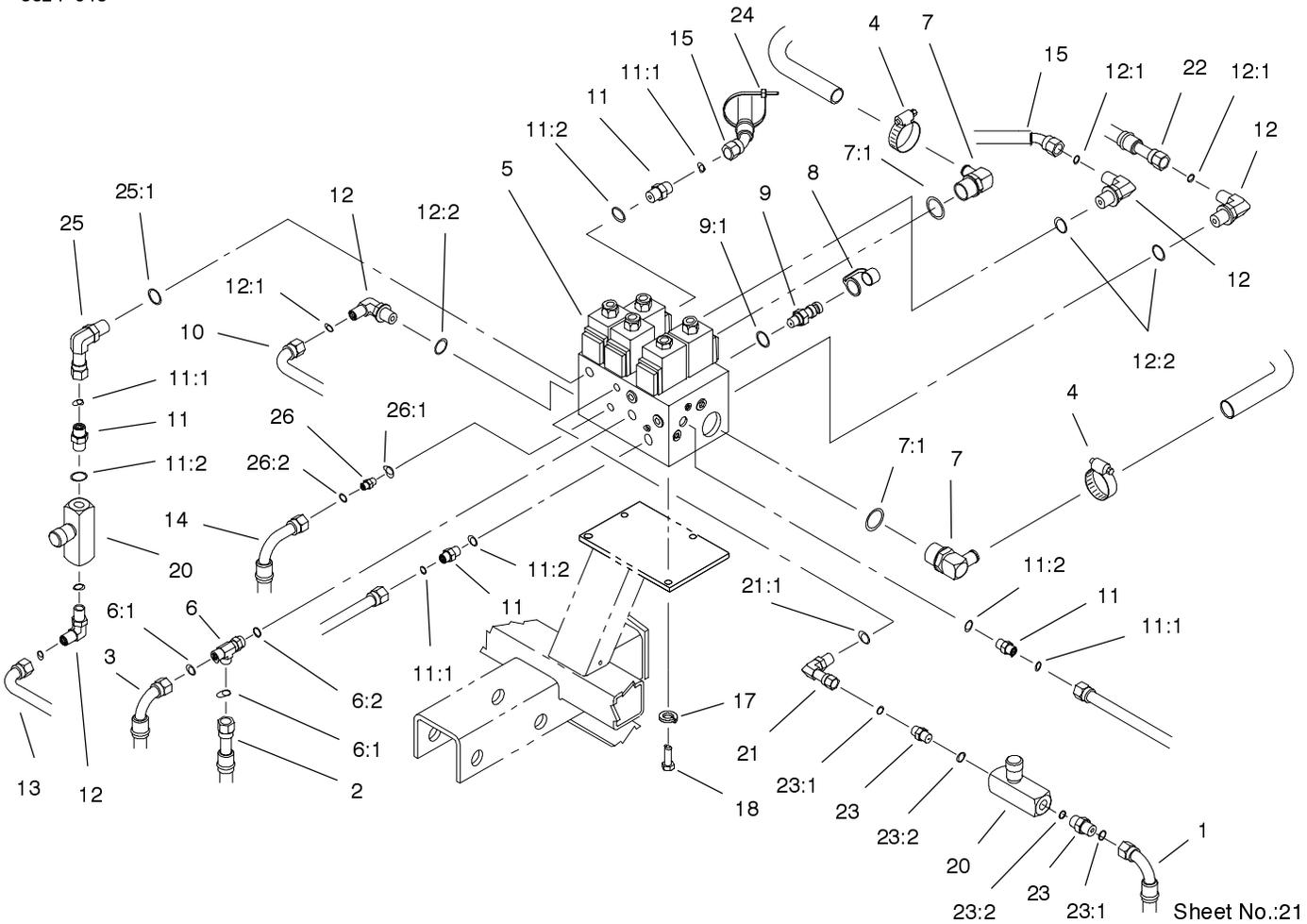
Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	3253-4	4	Washer	28	99-6991	1	LH Cooler Mount ASM
2	322-5	4	Screw-HH	28:2	75-0930	4	Hook - Cooler Mount
3	3256-23	4	Washer-Flat	28:3	3269-15	8	Rivet
4	99-6970-03	1	Support-Radiator	29	99-6994	1	RH Cooler Mount ASM
5	104-1418	1	Strip-Foam, Radiator	29:2	75-0930	4	Hook - Cooler Mount
6	99-6936	1	Radiator	29:3	3269-15	8	Rivet
7	66-3240	1	Cap-Radiator	30	104-1448	1	Hoop-Driveline
8	92-2379	1	Clamp-Hose	31	3256-55	4	Washer-Flat
9	104-0079	1	Hose	32	321-6	2	Screw-HH
10	3296-42	4	Nut-Lock				
11	99-6939	1	Shroud-Fan				
12	3290-271	2	Rivet-Pop				
13	98-9335	1	Plate-Warning, Fan				
14	3256-22	4	Washer-Flat				
15	321-4	2	Screw-HH				
16	2412-34	4	Clamp-Hose				
17	104-0013	1	Hose-Radiator, Upper				
18	104-0014	1	Hose-Radiator, Lower				
19	66-3180	1	Tube-Vent				
20	32128-20	6	Nut-HF				
21	2412-103	1	Clamp				
22	304-46	1	Draincock				
23	2412-98	1	Clamp				
25	93-7840	1	Decal-Cap, Radiator				
26	3290-379	1	Tie-Cable				
27	3234-5	6	Screw-HHF				



Sheet No.:20

Hood Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9321	1	Ring-Key	26	104-1429	2	Spacer - Plastic
2	98-9315	1	Latch - Locking	27	3296-12	2	Nut-Lock
2:1	99-8350	2	Key - Latch, Locking	28	3256-51	2	Washer-Flat
3	98-9316	1	Latch - Hood	29	104-1452	2	Screw-PPH
4	3296-16	4	Nut-Lock, NI	30	104-1451	4	Screw-TAP, PPH
5	65-5100	2	Handle-Door	31	72-3560	1	Decal
6	46-8091	4	Screw-HWH	32	329-7	1	Screw-HH
7	104-1412	2	Grommet - Bumper	33	3220-1	1	Nut-Jam
8	98-3940	1	Hood ASM	34	3256-67	2	Washer-Flat
9	93-7252	1	Decal-International	35	104-1439	1	Plate-Latch
10	321-4	4	Screw-HH	36	94-3829	2	Pin-Clevis
11	3256-1	4	Washer-Flat	37	3290-250	2	Pin-Hair Cotter
12	104-1419	1	Strip-Bulb	38	32128-47	1	Nut
13	3272-4	1	Pin-Cotter				
14	3256-23	1	Washer-Flat				
15	75-0570	1	Cable - Hood				
16	104-0010	2	Latch - Draw, Flexible				
17	99-6988	2	Decal				
18	104-0049	2	Cover - Side Rail				
19	104-1417	10	Rivet-Plastic				
20	62-7400	1	Decal-Toro				
21	104-1453	1	Grommet				
22	104-0042-03	1	Strap - Hinge				
23	104-0043-03	1	Screen - Rear				
24	3229-3	4	Screw-CARR				
25	32128-33	4	Nut-HF				

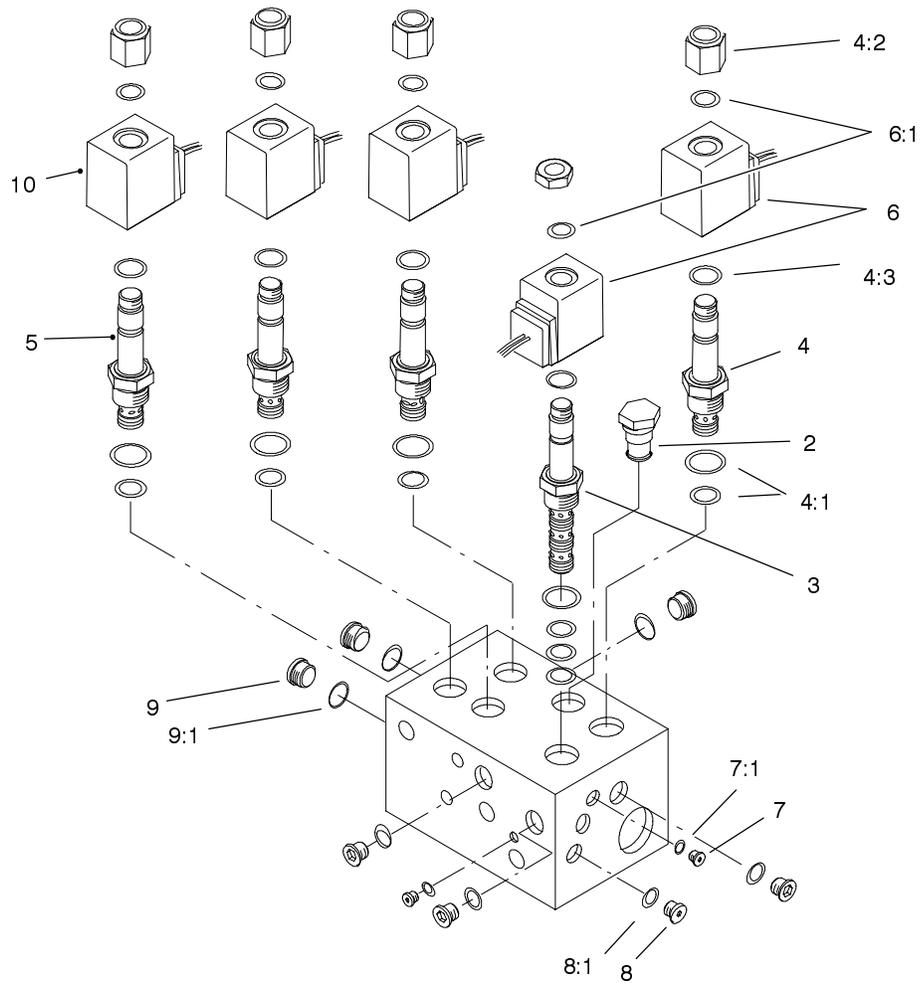


Sheet No.:21

Lift Block Assembly

Ref. No.	Part No.	Qty.	Description
1	104-0061	1	Hose ASM-Hyd
2	104-0060	1	Hose ASM-Hyd
3	104-0059	1	Hose ASM-Hyd
4	2412-34	2	Clamp-Hose
5	99-6979	1	Manifold Block - Lift
6	340-86	1	Fitting-Tee
6:1	237-22	2	O-Ring
6:2	237-42	1	O-Ring
7	23-8910	2	Stem-Barb, 90°
7:1	237-146	1	O-Ring
8	354-79	1	Cap - Fitting, Yellow
9	59-7410	1	Diag. Nipple Tip
9:1	237-42	1	O-Ring
10	98-3907	1	Tube ASM
11	340-2	4	Adapter
11:1	237-22	1	O-Ring
11:2	237-42	1	O-Ring
12	340-77	4	Fitting-90°
12:1	237-22	1	O-Ring
12:2	237-42	1	O-Ring
13	104-0093	1	Tube-ASM
14	104-0062	1	Hose ASM-Hyd
15	104-0055	2	Hose ASM-Hyd
17	3253-4	3	Washer
18	322-3	3	Screw-HH
20	98-9742	2	Valve-Control, Flow

Ref. No.	Part No.	Qty.	Description
21	340-143	1	Elbow - 90° Swivel
22	104-0054	1	Hose ASM-Hyd
23	340-1	2	Adapter
23:1	237-35	1	O-Ring
23:2	237-42	1	O-Ring
24	3290-379	1	Tie-Cable
25	340-110	1	Elbow-Swivel, 90° Straight
25:1	237-42	1	O-Ring
26	340-92	1	Fitting
26:1	237-78	1	O-Ring
26:2	237-21	1	O-Ring

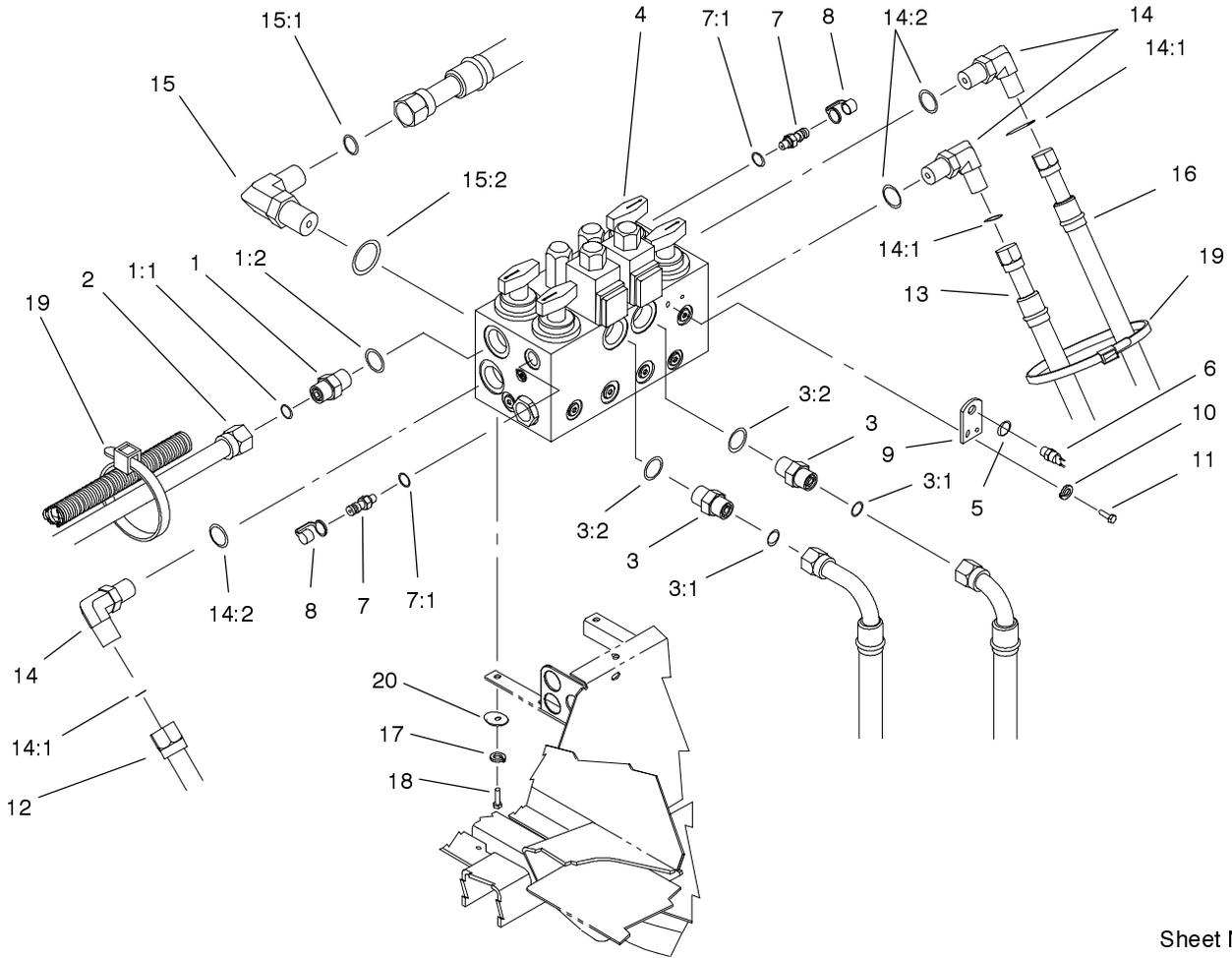


Sheet No.:B2
T-3574

Hydraulic Manifold Assembly No. 99-6979

Ref. No.	Part No.	Qty.	Description
2	95-7480	1	Plug - Cavity
3	94-2627	1	Cartridge
3:1	75-2090	1	Kit-Seal
4	93-7494	1	Cartridge
4:1	75-2080	1	Kit-Seal
5	104-1208	3	Cartridge - Blocking
6	83-2010	2	Coil - Valve
6:1	94-5438	1	Seal-Solenoid
7	353-991	2	Plug-Hex, Hollow
7:1	237-156	1	O-Ring
8	353-990	1	Plug
8:1	237-78	1	O-Ring
9	353-989	7	Plug-Hex, Hollow
9:1	237-42	1	O-Ring
10	104-1209	3	Solenoid

Ref. No.	Part No.	Qty.	Description
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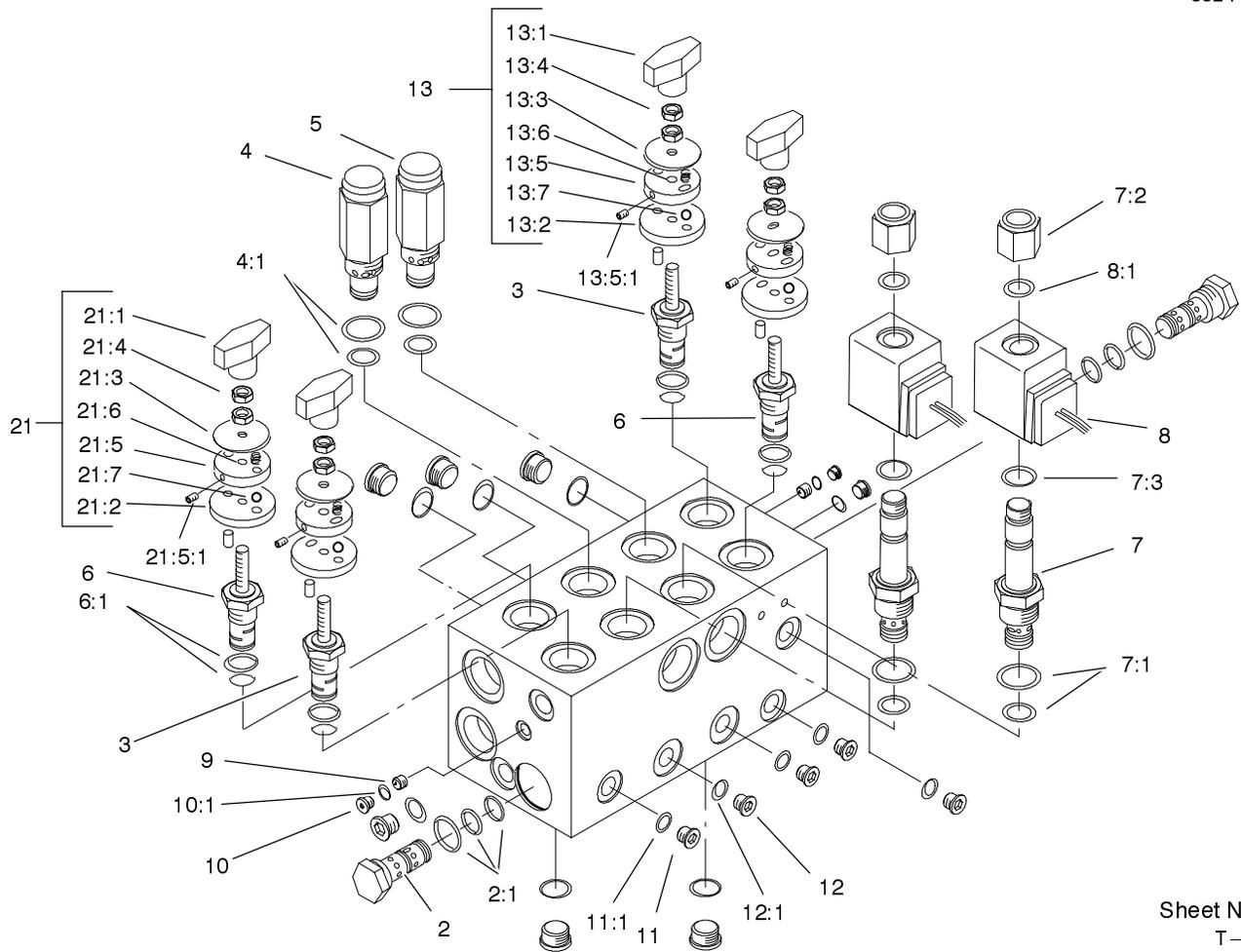
Sheet No.:22

Mow Block Assembly

Ref. No.	Part No.	Qty.	Description
1	340-6	1	Fitting-Straight
1:1	237-30	1	O-Ring
1:2	237-80	1	O-Ring
2	98-3905	1	Tube ASM
3	340-7	2	Adapter
3:1	237-65	1	O-Ring
3:2	237-80	1	O-Ring
4	99-6978	1	Manifold Block - Mow
5	3256-76	2	Washer-Flat
6	72-4320	2	Switch
7	354-77	2	Fitting-Quick
7:1	237-78	1	O-Ring
8	354-79	2	Cap - Fitting, Yellow
9	98-8199	2	Bracket - Switch
10	3253-3	4	Washer-Lock/Sp
11	329-3	4	Screw-HH
12	98-3906	1	Tube ASM
13	104-0065	1	Hydraulic Hose ASM
14	340-105	3	Fitting-90°
14:1	237-80	1	O-Ring
14:2	237-30	1	O-Ring
15	340-142	1	Elbow-90°
15:1	237-58	1	O-Ring
15:2	237-81	1	O-Ring
16	104-0066	1	Hose ASM-Hyd
17	3253-4	4	Washer

Ref. No.	Part No.	Qty.	Description
18	322-3	4	Screw-HH
19	3290-378	2	Tie-Cable
20	3256-23	4	Washer-Flat

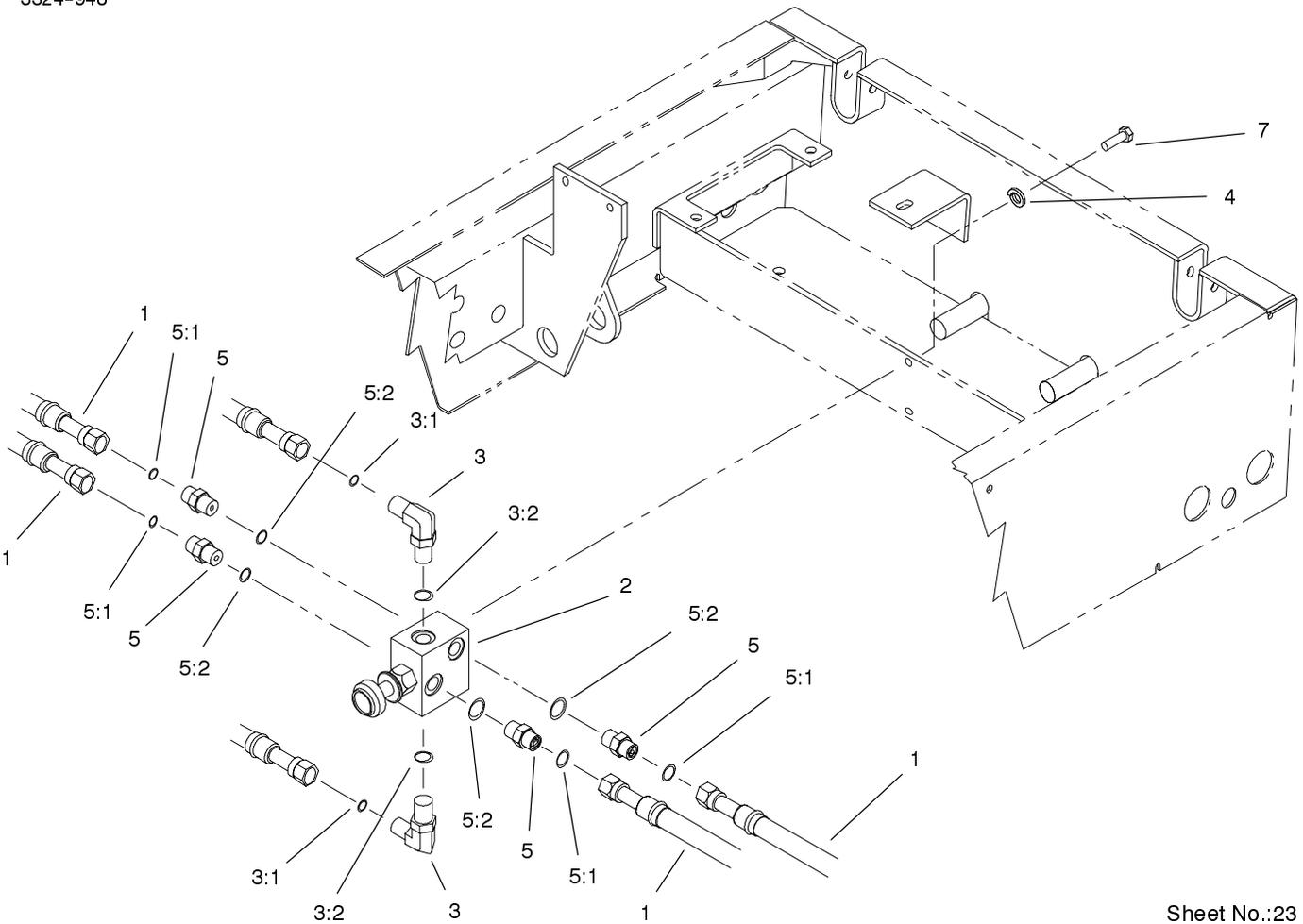
PROTOTYPE



Sheet No.:B3
T-3575

Hydraulic Manifold Assembly No. 99-6978

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
2	69-4120	2	Cartridge-Logic	13:7	255-13	2	Ball-Steel, Stainless
2:1	69-4240	1	Kit-Seal	13:8	3245-36	1	Screw - HSH
3	94-8175	2	Control-Flow, Rotary	21	94-6378	2	Kit-Detent
4	94-3655	1	Valve-Relief	21:1	94-5020	1	Knob ASM
4:1	75-2080	1	Kit-Seal	21:2	94-5021	1	Plate - Locating
5	104-1200	1	Cartridge Relief Valve	21:4	3218-1	2	Nut-Jam
6	94-3657	2	Spool ASM	21:5	94-5023	1	Plate - Detent
6:1	94-3661	1	Kit-Seal, 4-Way	21:6	94-5027	2	Spring
7	93-7494	2	Cartridge	21:7	255-13	2	Ball-Steel, Stainless
7:1	75-2080	1	Kit-Seal				
8	83-2010	2	Coil - Valve				
8:1	94-5438	1	Seal-Solenoid				
9	95-5999	2	Plug-Orifice				
10	353-991	4	Plug-Hex, Hollow				
10:1	237-156	1	O-Ring				
11	353-990	8	Plug				
11:1	237-78	1	O-Ring				
12	353-989	4	Plug-Hex, Hollow				
12:1	237-42	1	O-Ring				
13	94-3660	2	Kit-Detent				
13:1	94-5020	1	Knob ASM				
13:2	94-5025	1	Plate - Locating				
13:3	94-5026	1	Plate-Indicator				
13:4	3218-1	2	Nut-Jam				
13:5	94-5023	1	Plate - Detent				
13:6	94-5027	2	Spring				



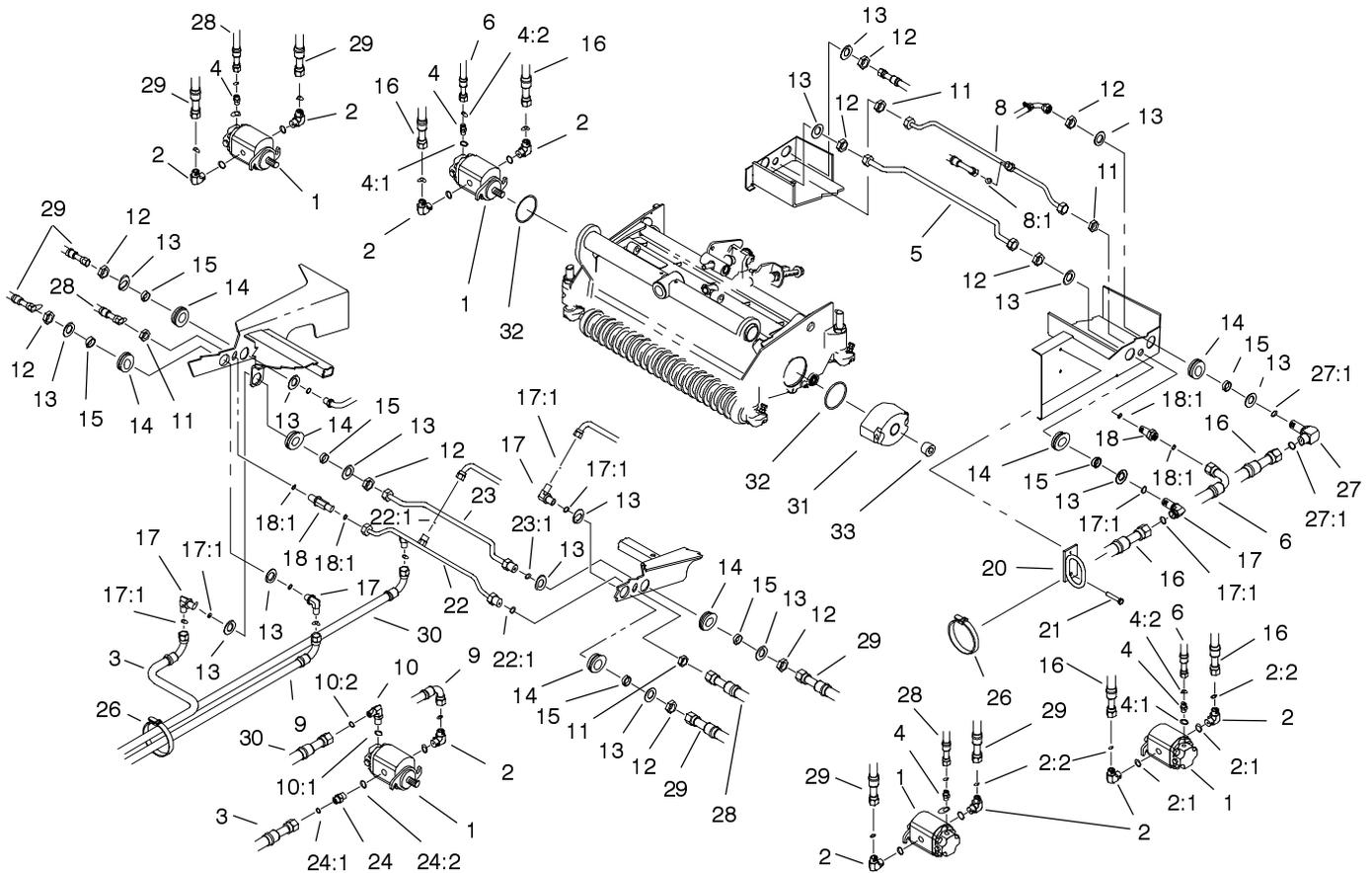
Sheet No.:23

Rear Hydraulic Manifold Assembly

Ref. No.	Part No.	Qty.	Description
1	104-0052	4	Hose ASM-Hyd
2	98-3919	1	Flow Control
2:1	104-0003	1	Cartridge Kit
*2:1:1	104-0004	1	Cartridge Seal Kit
*2:1:2	104-0005	1	Cartridge Knob Kit
3	340-77	2	Fitting-90°
3:1	237-22	1	O-Ring
3:2	237-42	1	O-Ring
4	3253-3	2	Washer-Lock/Sp
5	340-2	4	Adapter
5:1	237-22	1	O-Ring
5:2	237-42	1	O-Ring
7	321-4	2	Screw-HH

Ref. No.	Part No.	Qty.	Description

* Not illustrated



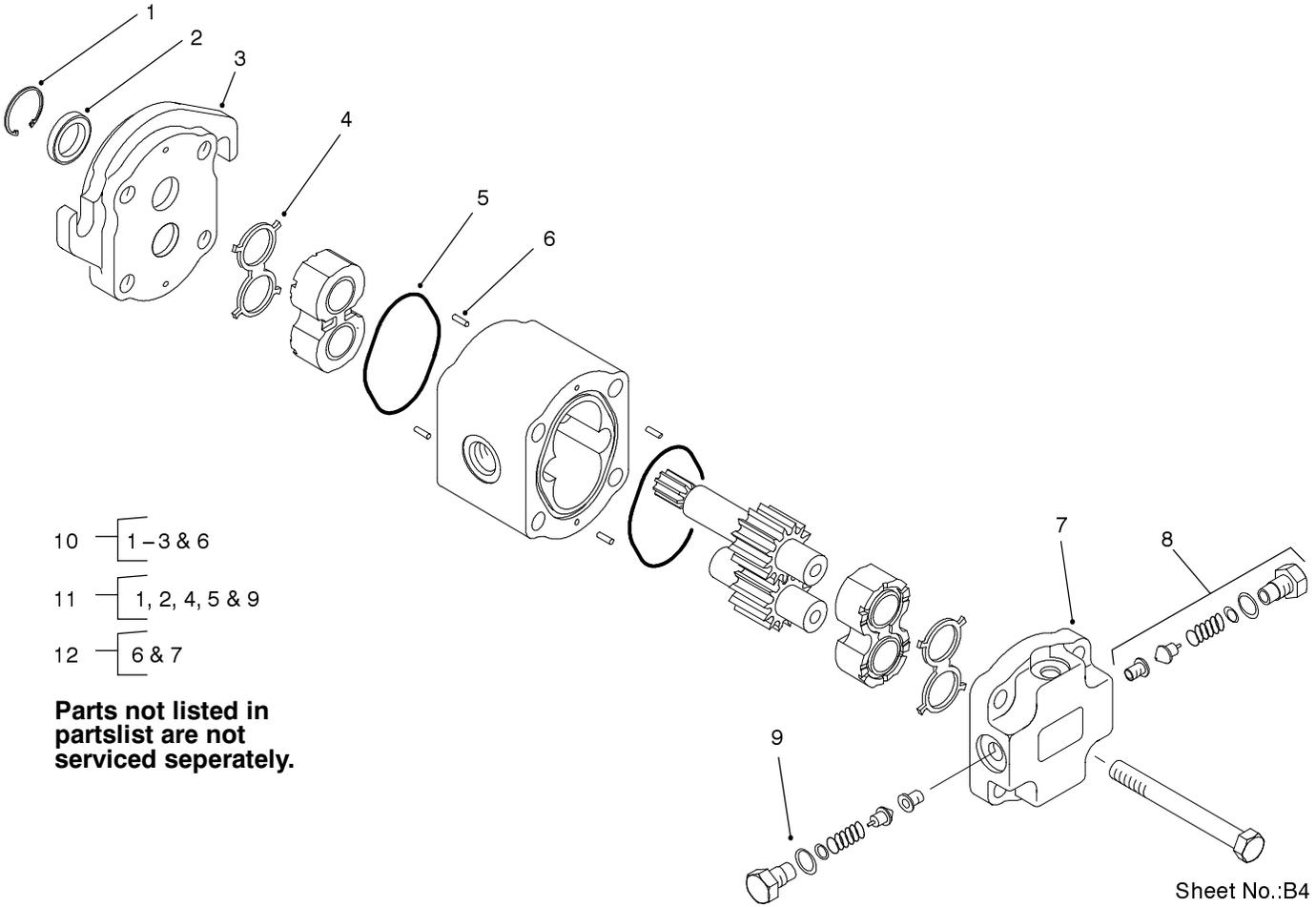
Sheet No.:24

Reel Motor And Hose Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9999	5	Hydraulic Motor
2	340-98	9	Fitting-90°
2:1	237-79	2	O-Ring
2:2	237-30	2	O-Ring
3	104-0067	1	Hose ASM-Hyd
4	340-92	4	Fitting
4:1	237-78	1	O-Ring
4:2	237-21	1	O-Ring
5	94-4918	1	Tube ASM
6	104-0058	2	Hose ASM-Hyd
8	100-3714	1	Drain Tube ASM
8:1	237-21	1	O-Ring
9	104-0068	1	Hose ASM-Hyd
10	340-132	1	Elbow-90°
10:1	237-78	1	O-Ring
10:2	237-21	1	O-Ring
11	340-70	2	Locknut-Bulkhead
12	340-127	5	Nut-Bulkhead
13	69-8930	10	Washer
14	240-5	5	Grommet
15	69-8960	5	Spacer
16	104-0057	4	Hose ASM-Hyd
17	93-9151	5	Fitting-Hydraulic
17:1	237-30	4	O-Ring
18	340-71	3	Fitting-Straight, Bulkhead

Ref. No.	Part No.	Qty.	Description
18:1	237-22	4	O-Ring
20	104-0028	2	Hose Guide
21	32104-32	4	Screw-HH
22	104-0094	1	Tube-ASM
22:1	237-22	3	O-Ring
23	104-0092	1	Tube-ASM
23:1	237-30	1	O-Ring
24	340-4	1	Adapter
24:1	237-30	1	O-Ring
24:2	237-79	1	O-Ring
26	3290-379	6	Tie-Cable
27	100-3713	2	Fitting-Hyd, 90 Bulkhead
27:1	237-30	2	O-Ring
28	104-0063	2	Hose ASM-Hyd
29	104-0069	4	Hose ASM-Hyd
30	104-0064	1	Hose ASM-Hyd
31	94-4347-03	5	Weight-End, Mach
32	93-9783	10	O-Ring
33	93-8717	5	Plug-Pipe
34	98-1851	1	Bar - Guage
35	32122-54	2	Screw-Head, Truss
36	32103-3	2	Nut-Wing
37	98-7976	1	Decal-Bar, Guage

3324-948

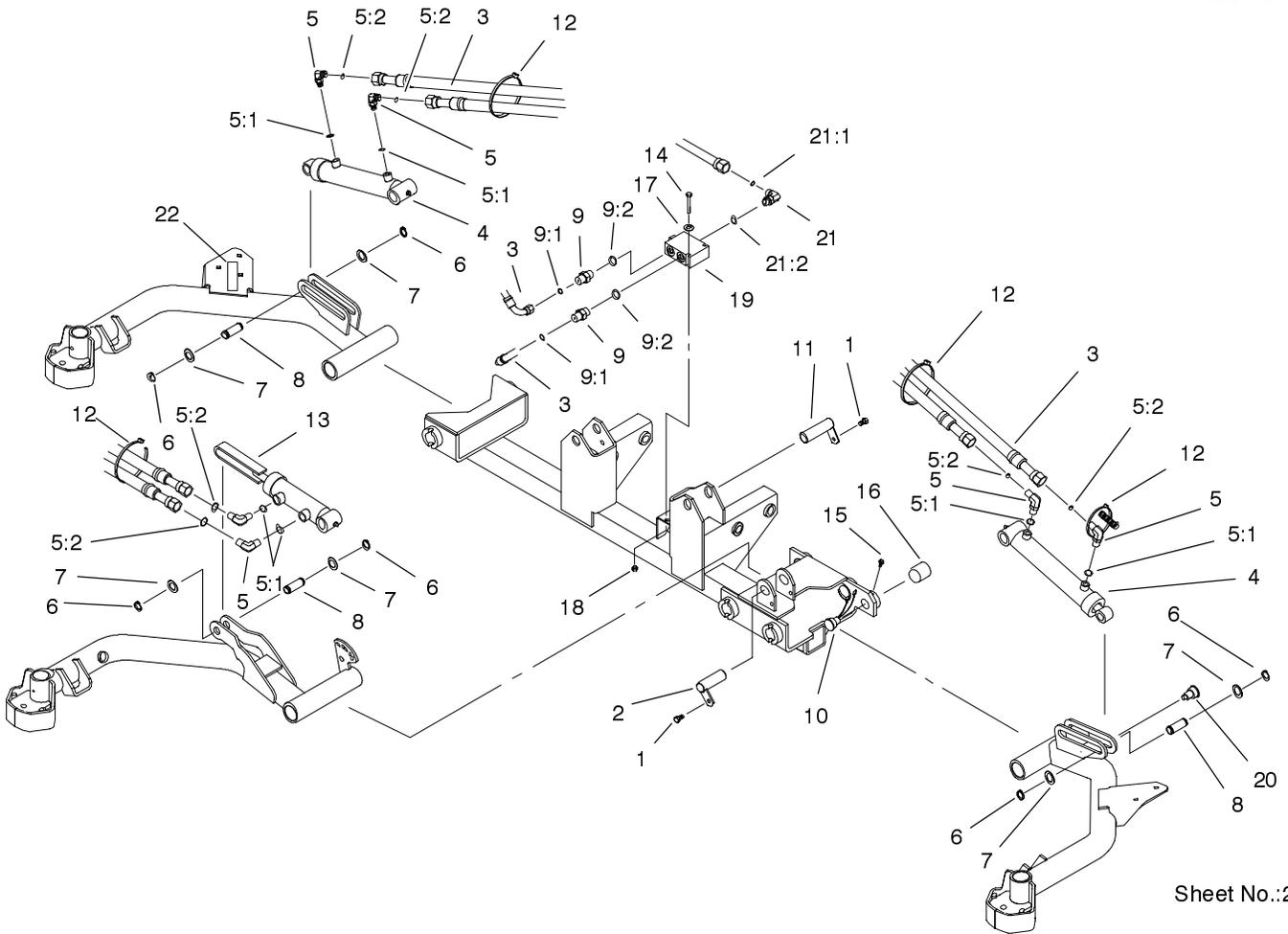


Sheet No.:B4
T-3503

Reel Motor No. 98-9999

Ref. No.	Part No.	Qty.	Description
10	93-9152	2	Flange Kit
11	98-9997	2	Seal Kit
12	93-9154	2	Valve Block Kit

Ref. No.	Part No.	Qty.	Description
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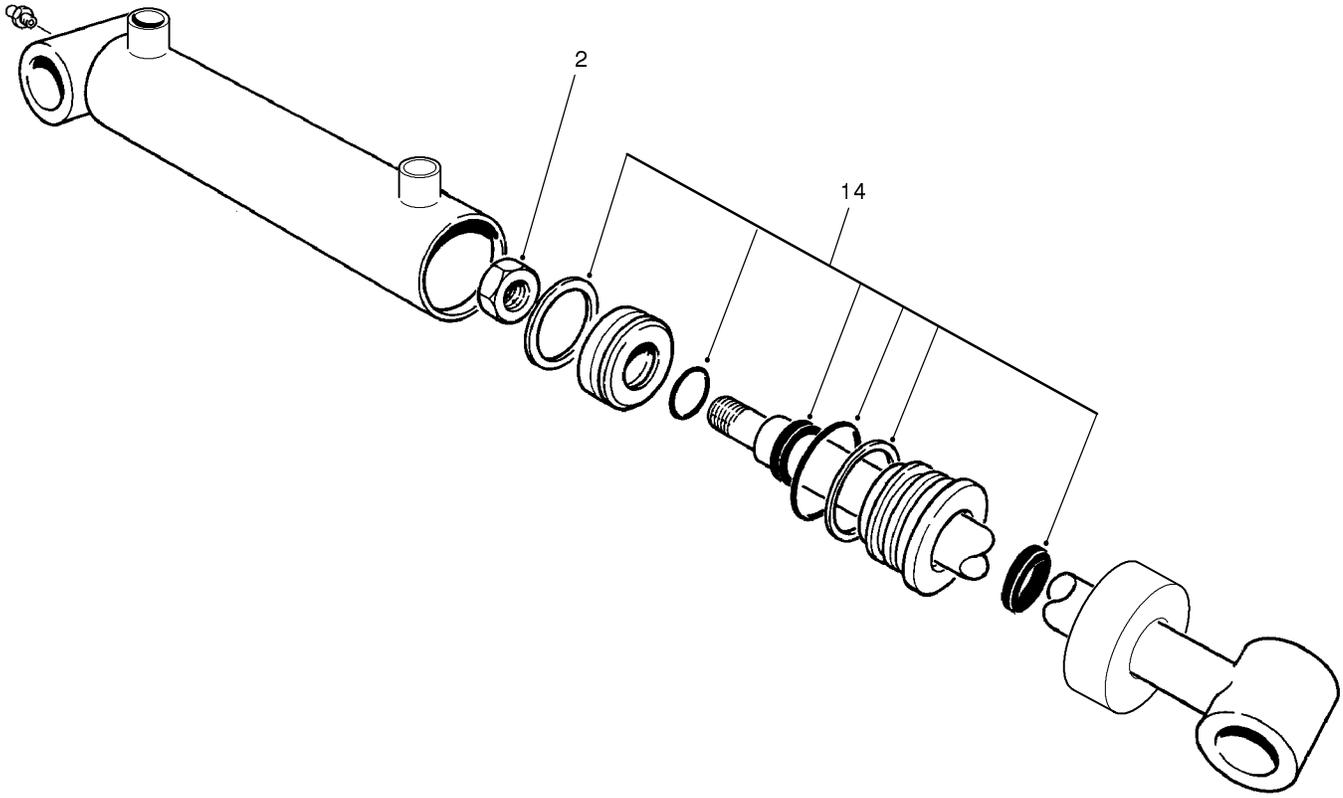
Sheet No.:25

Front Lift Circuit Assembly

Ref. No.	Part No.	Qty.	Description
1	32144-14	3	Screw-HWH
2	83-6790	1	Pin-Cylinder
3	104-0059	2	Hose ASM-Hyd
4	99-6986	2	Cylinder-Hydraulic
5	340-132	6	Elbow-90°
5:1	237-78	2	O-Ring
5:2	237-21	2	O-Ring
6	32120-93	6	Ring-Retaining
7	3-6498	6	Washer-Thrust
8	104-0046	3	Pin - Cylinder Slide
9	340-2	2	Adapter
9:1	237-22	1	O-Ring
9:2	237-42	1	O-Ring
10	92-8002	1	Plug-Reed Switch, Magnet
11	83-6780	2	Cylinder Pin
12	3290-378	2	Tie-Cable
13	99-6987	1	Cylinder-Hyd
14	321-11	2	Screw-HH
15	32104-76	2	Screw-Slot, Acorn
16	75-6370	1	Cap - Sensor
17	3256-1	2	Washer-Flat
18	3296-42	2	Nut-Lock
19	99-6998	1	Divider-Flow
19:1	99-5645	1	Body
19:2	99-5646	1	Cartridge

Ref. No.	Part No.	Qty.	Description
19:3	353-989	1	Plug-Hex, Hollow
19:3:1	237-42	1	O-Ring
*19:4	99-5647	1	Seal Kit
20	92-8754	1	Plug-Reed Switch, Magnet
21	340-77	1	Fitting-90°
21:1	237-22	1	O-Ring
21:2	237-42	1	O-Ring
22	93-6687	1	Decal-Step, No

* Not illustrated

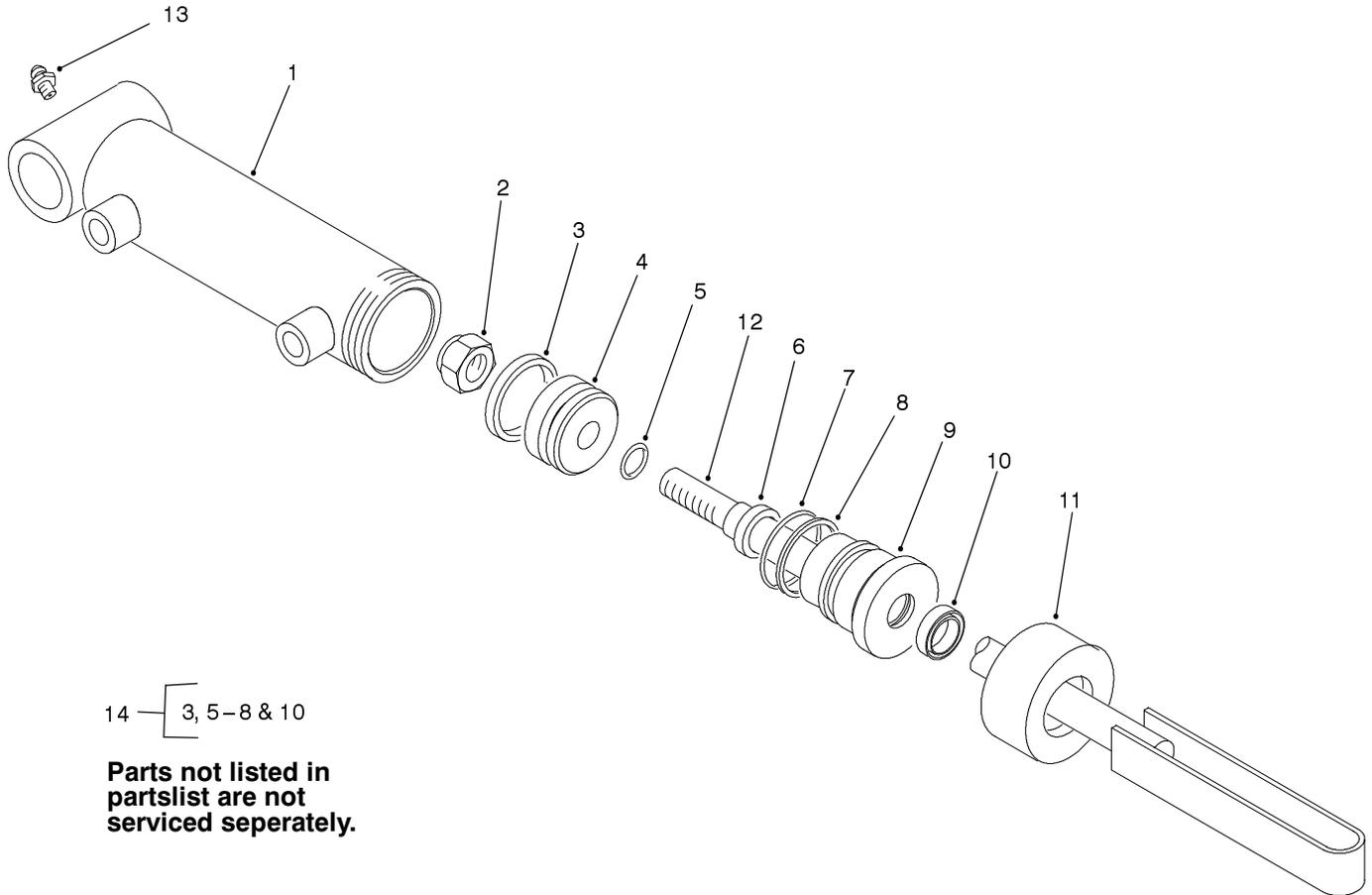


Sheet No.:B5
T-3383

Hydraulic Cylinder Assembly No. 99-6986

Ref. No.	Part No.	Qty.	Description
2	32152-10	1	Locknut-Deform, Top
14	100-8023	1	Kit-Repair, Seal

Ref. No.	Part No.	Qty.	Description
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14 — [3, 5-8 & 10]

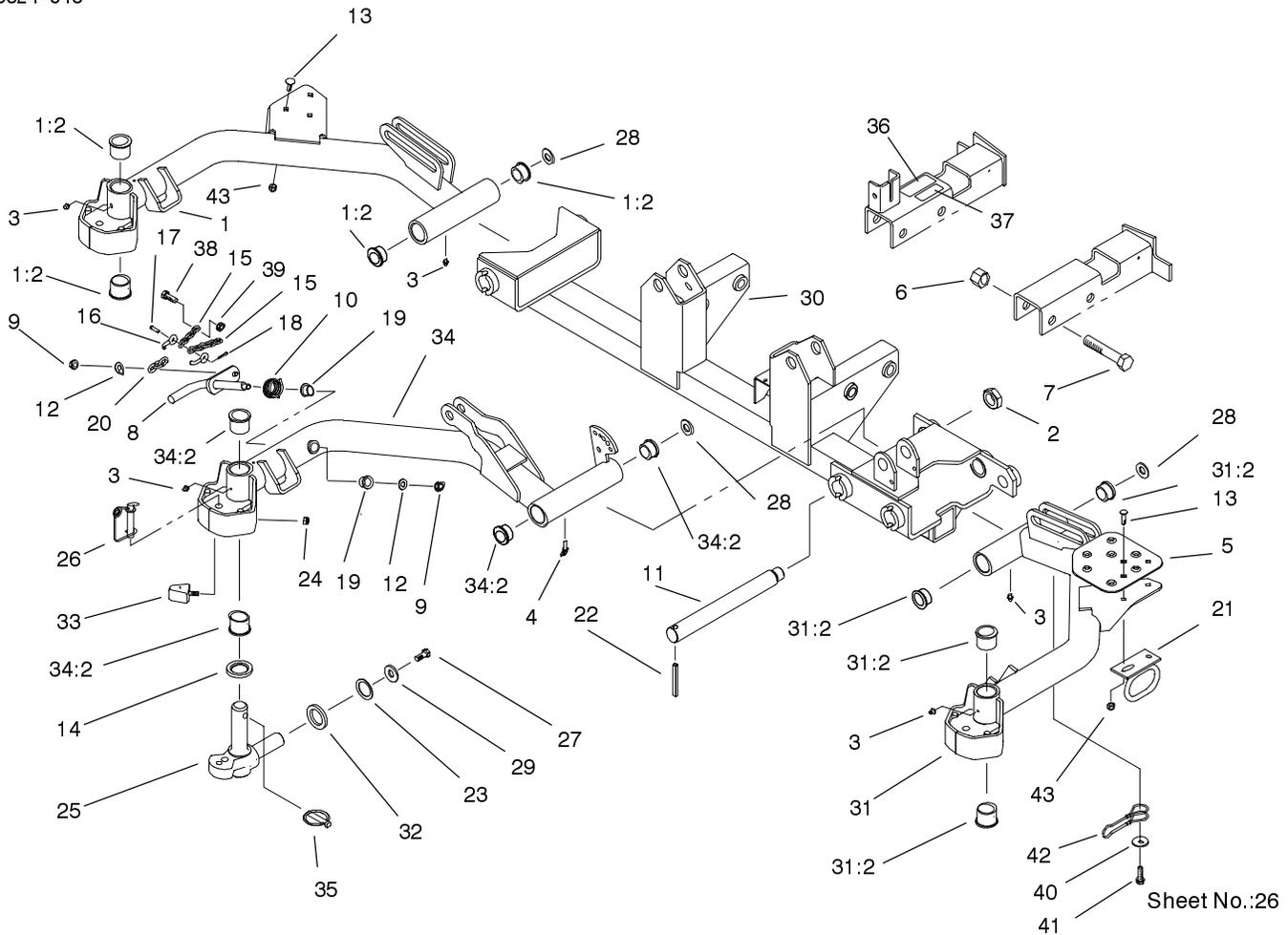
**Parts not listed in
partlist are not
serviced seperately.**

Sheet No.:B6
T-3501

Hydraulic Cylinder Assembly No. 99-6987

Ref. No.	Part No.	Qty.	Description
2	32152-10	1	Locknut-Deform, Top
14	100-8023	1	Kit-Repair, Seal

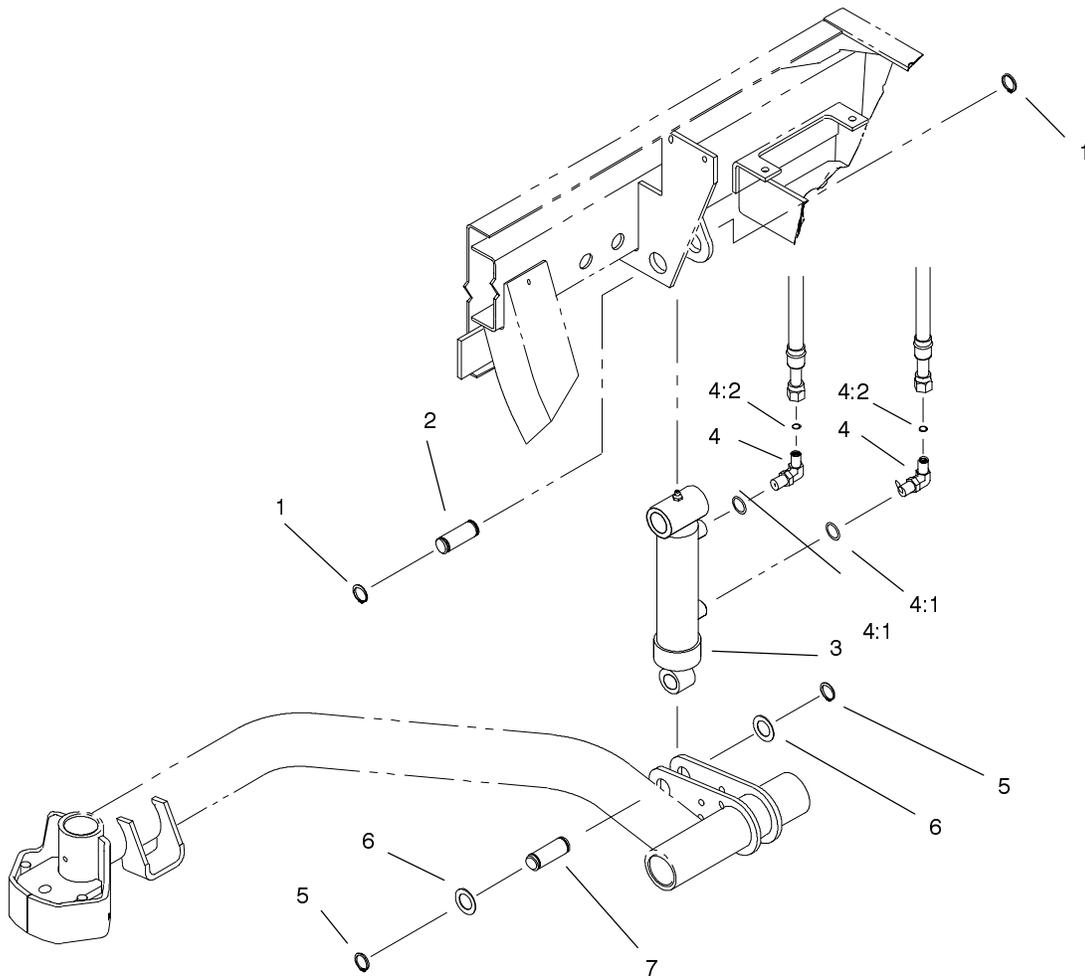
Ref. No.	Part No.	Qty.	Description
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Front Lift Arm Assembly

Ref. No.	Part No.	Qty.	Description
1	99-6905-03	1	Arm ASM #5
1:2	104-0015	2	Bushing-Flange
2	3296-49	3	Nut-Lock NI
3	302-5	5	Fitting-Lube
4	302-60	1	Fitting-Lube
5	104-1438-03	1	Step-Perforated
6	3296-51	4	Nut-Lock, NI
7	328-7	4	Screw-HH
8	99-6941-03	1	Pivot Rod ASM
9	3296-39	2	Nut-Lock, NI
10	98-3929	1	Spring-Torsion
11	95-7158	3	Pin - Pivot
12	3256-24	2	Washer-Flat
13	3230-1	5	Screw-CARR
14	94-8946	3	Washer
15	5-1096	2	Chain-Lift
16	282-4	1	Shackle
17	283-6	1	Pin-Clevis
18	3272-10	1	Pin-Cotter
19	256-287	2	Bushing
20	104-1413	1	Chain - Straight Link
21	104-0028	2	Hose Guide
22	32121-110	3	Pin-Roll, Slotted
23	3-6781	3	Washer-Thrust
24	3296-29	6	Nut-Lock, NI
25	98-1880-03	3	Knuckle - Pivot, Mach

Ref. No.	Part No.	Qty.	Description
26	99-5610	3	Pin
27	98-7993	3	Screw-HHF
28	76-2980	3	Washer-Thrust
29	3256-6	3	Washer-Flat
30	99-6913-03	1	Carrier Frame -
31	99-6904-03	1	Arm ASM #4
31:2	104-0015	2	Bushing-Flange
32	98-7974	3	Washer - Thrust
33	99-5605	6	Bumper ASM
34	99-6901-03	1	Arm ASM #1
34:2	104-0015	2	Bushing-Flange
35	283-71	3	Pin-Lynch
36	93-6693	1	Decal-Plate, Floor
37	93-6686	1	Decal-Oil, Hydraulic
38	323-6	1	Screw-HH
39	32128-21	1	Nut-HF
40	3256-57	2	Washer-Flat
41	32144-26	2	Screw-Flow, Penta
42	98-3936	2	Lanyard
43	3296-47	5	Nut-Lock, NI



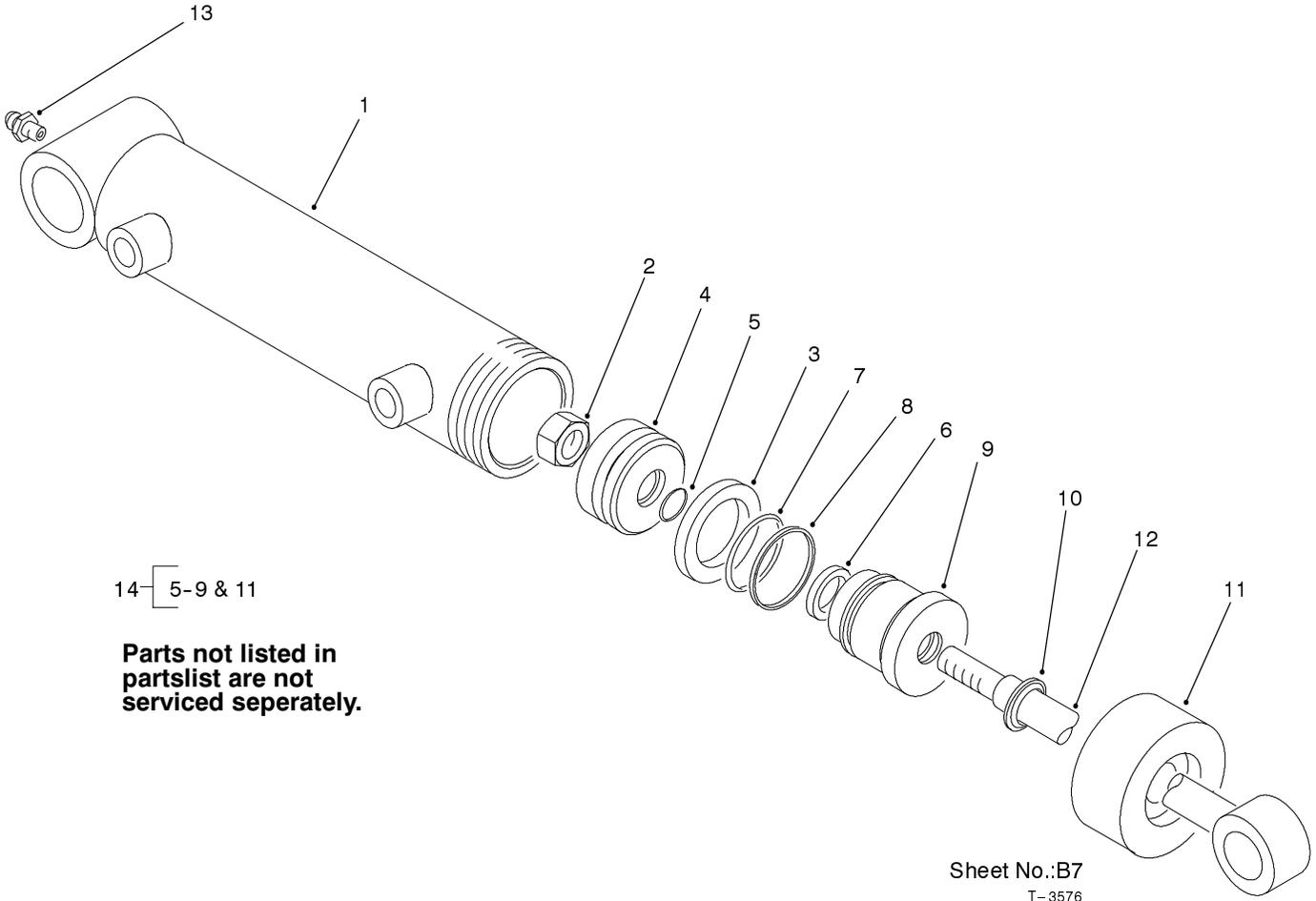
Sheet No.:27

Rear Lift Cylinder Assembly

Ref. No.	Part No.	Qty.	Description
1	32151-36	4	Ring-Retaining
2	75-5360	2	Pin-Cylinder
3	98-3945	2	Cylinder-Hyd
4	340-132	4	Elbow-90°
4:1	237-78	1	O-Ring
4:2	237-21	1	O-Ring
5	32120-93	4	Ring-Retaining
6	3-6498	4	Washer-Thrust
7	104-0046	2	Pin - Cylinder Slide

Ref. No.	Part No.	Qty.	Description

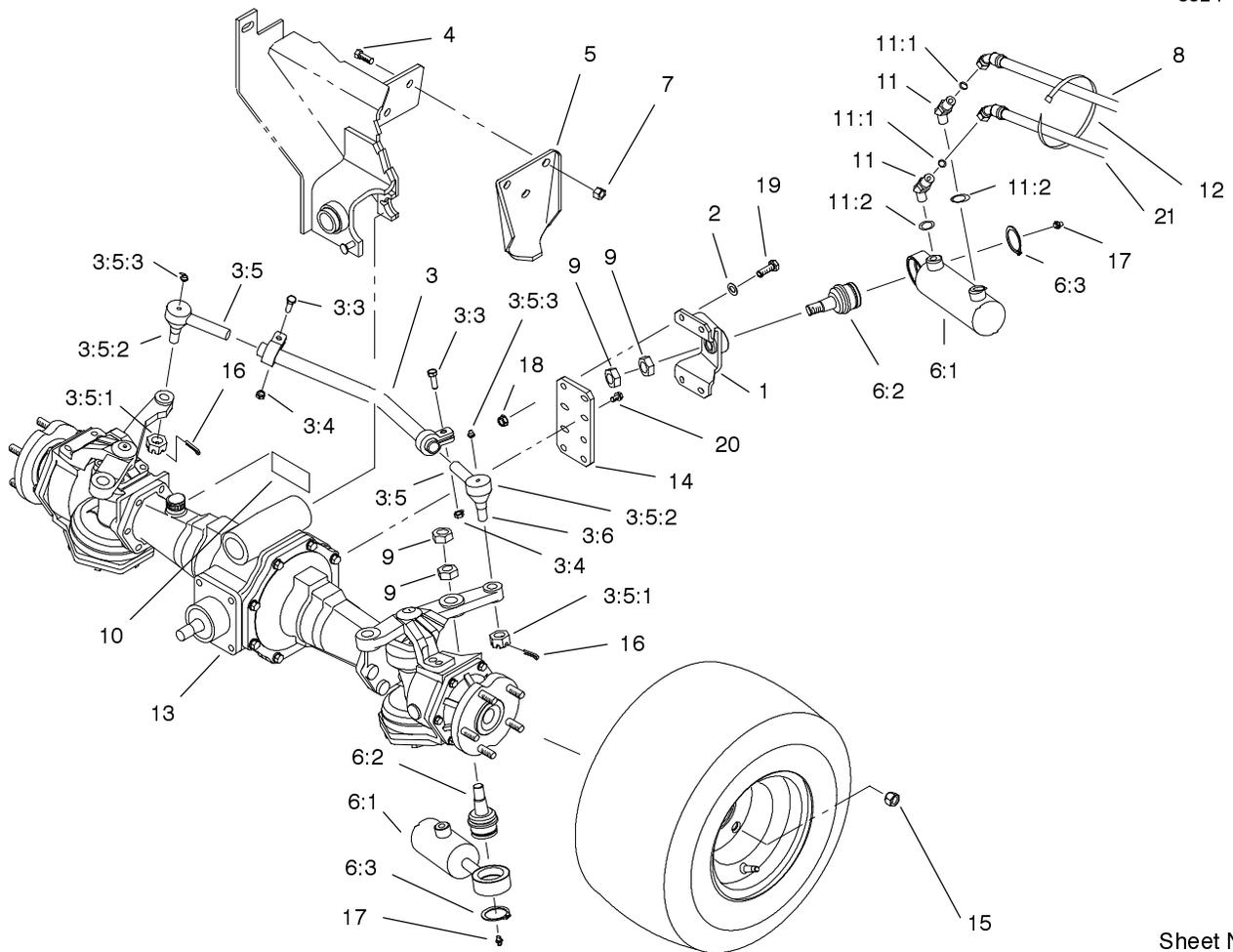
PROTOTYPE



Hydraulic Cylinder Assembly No. 98-3945

Ref. No.	Part No.	Qty.	Description
2	32152-10	1	Locknut-Deform, Top
14	100-8023	1	Kit-Repair, Seal

Ref. No.	Part No.	Qty.	Description
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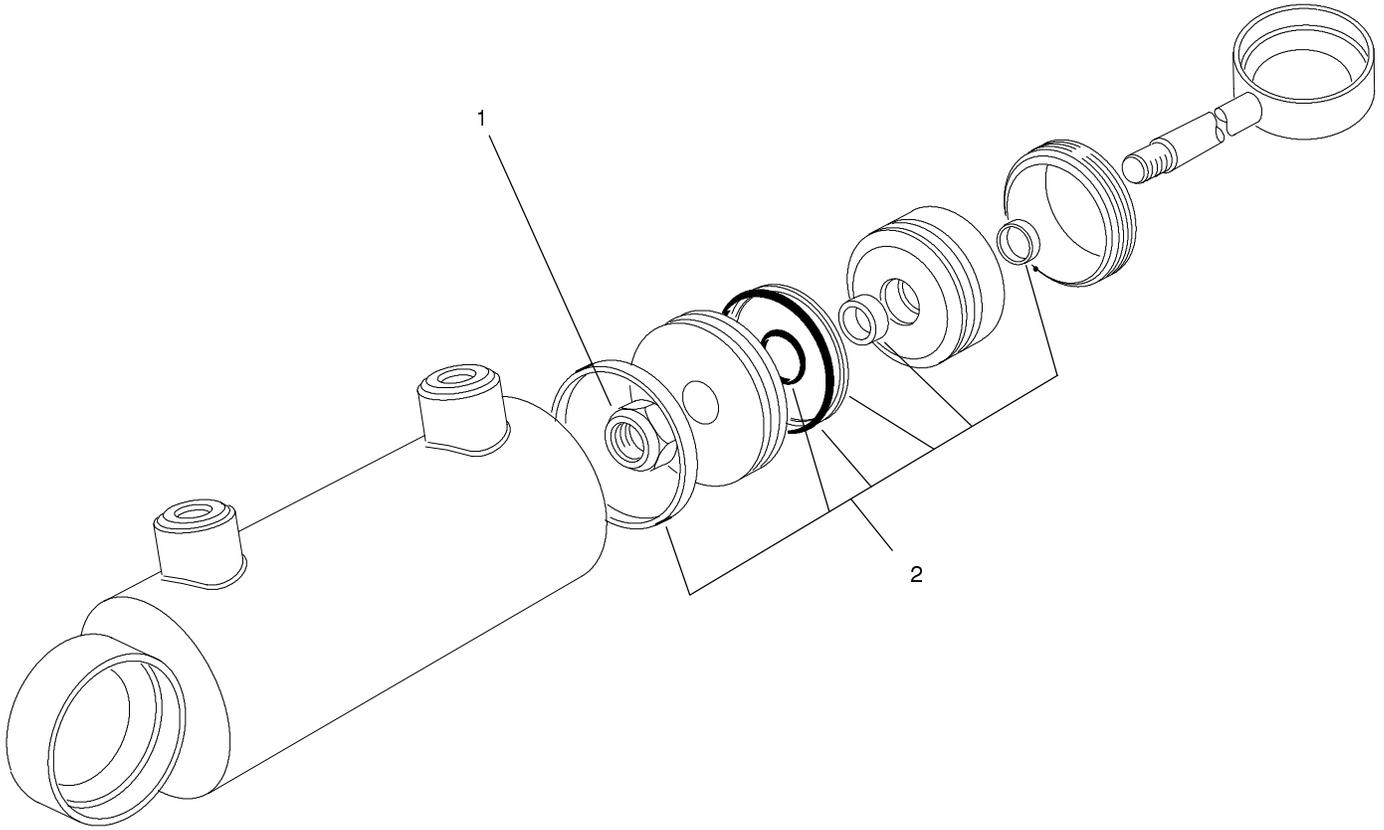


Sheet No.:32

4WD Rear Axle Assembly

Ref. No.	Part No.	Qty.	Description
1	98-3948-03	1	Mount-Cylinder
2	48-9220	4	Washer
3	98-3932	1	Tie Rod ASM
3:3	323-9	2	Screw-HH
3:4	3296-39	2	Nut-Lock, NI
3:5	71-4740	2	End-Tie Rod
3:5:1	32136-13	1	Nut-Hex, Slotted
3:5:2	71-4760	1	Seal
3:5:3	302-55	1	Zerk
3:7	99-8996	1	Tube And Clamp Assembly
4	325-5	6	Screw-HH
5	99-6966-03	2	Stop Axle
6		1	Balljoint ASM
6:1	98-8163	1	Cylinder-Steering
6:2	92-5838	2	Joint-Ball
6:3	32151-104	2	Ring-Retaining, External
7	3296-23	6	Nut-Lock, NI
8	104-0070	1	Hose ASM-Hyd
9	3220-6	4	Nut-Jam
10	93-6697	1	Decal - Lube
11	340-103	2	Fitting
11:1	237-78	1	O-Ring
11:2	237-21	1	O-Ring
12	3290-378	1	Tie-Cable

Ref. No.	Part No.	Qty.	Description
13	98-3925	1	Drive Axle ASM
14	98-8198-03	1	Plate-Cylinder Bracket
15	93-5268	10	Nut-Lug
16	3272-11	2	Pin-Cotter
17	302-5	2	Fitting-Lube
18	3296-39	4	Nut-Lock, NI
19	323-8	4	Screw-HH
20	95-8812	4	Screw - Hhc
21	104-0071	1	Hose ASM-Hyd

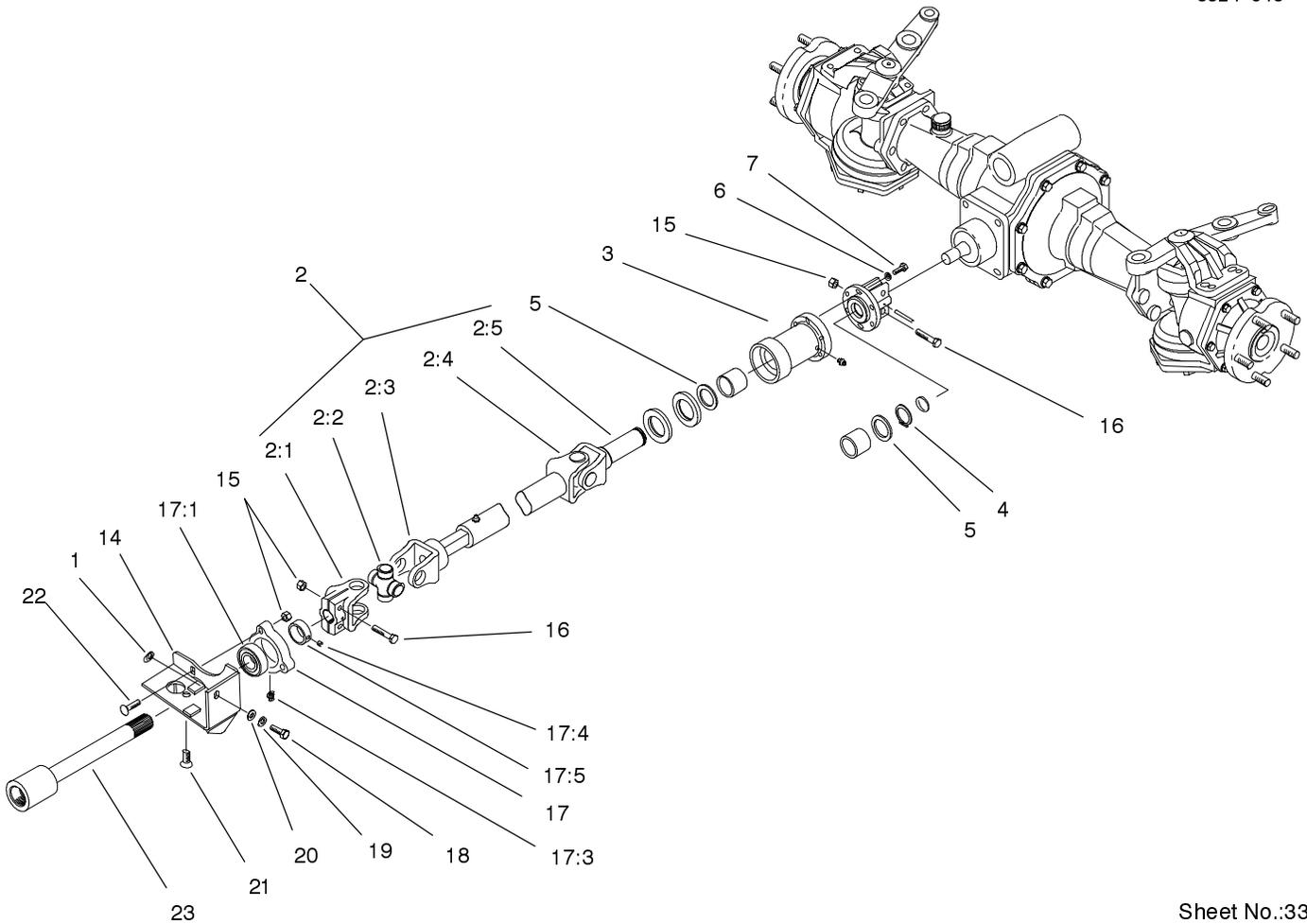


Sheet No.:B8
T-3513

Hydraulic Cylinder No. 98-8163

Ref. No.	Part No.	Qty.	Description
1	32152-10	1	Locknut-Deform, Top
2	100-8022	1	Seal Repair Kit

Ref. No.	Part No.	Qty.	Description
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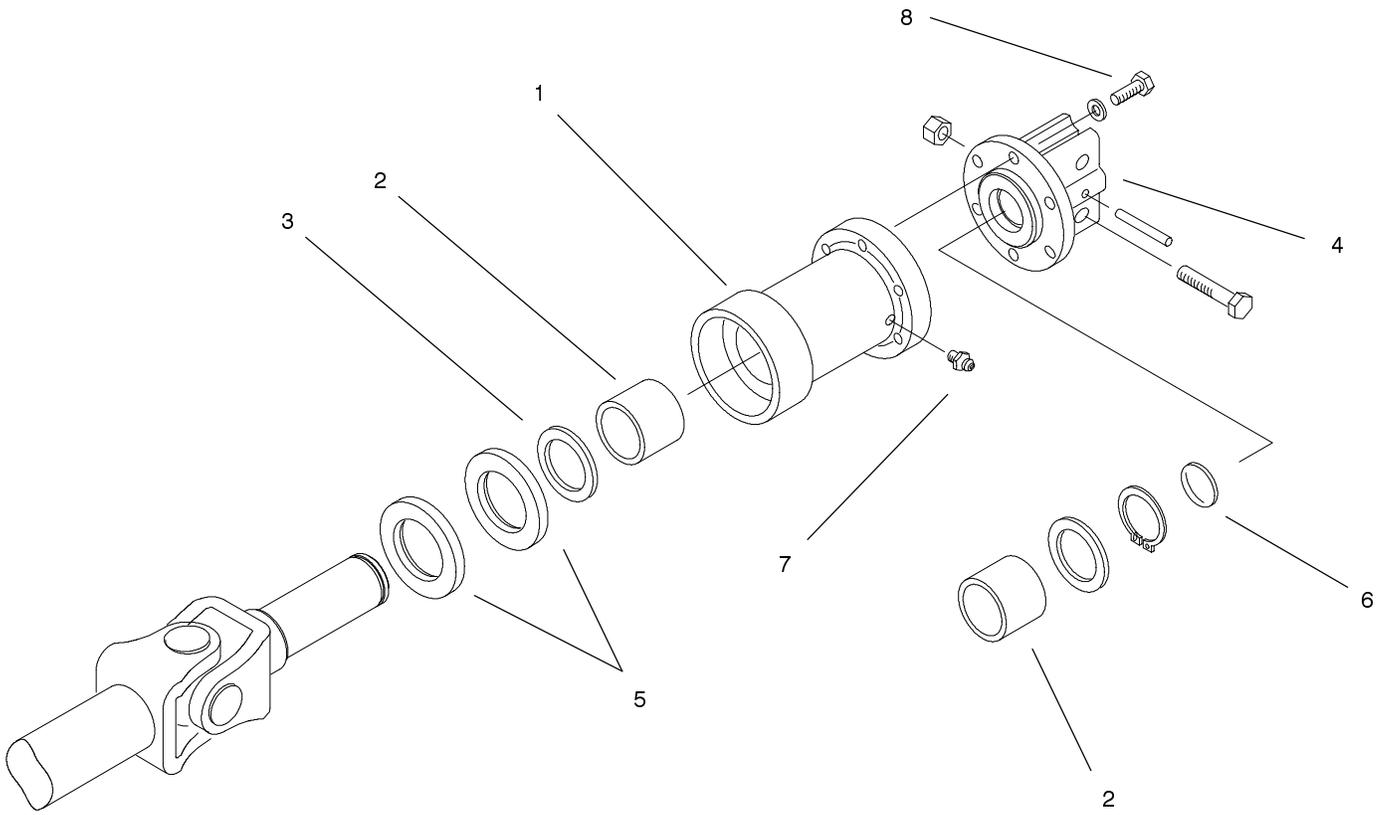
Sheet No.:33

4WD Shaft Assembly

Ref. No.	Part No.	Qty.	Description
1	83-7470	2	Shim
2	99-6976	1	Driveshaft
2:1	54-9090	1	Yoke-End
2:2	54-9180	2	U-Joint Kit
*2:2:1	62-3820	1	Fitting-Grease
2:3	104-1693	1	Yoke & Shaft
2:4	83-5260	1	Tube-Yoke, Slip
2:5	72-3440	1	Yoke - Shaft
3		1	Clutch Housing ASM
4	32151-87	1	Ring-Retaining
5	71-4590	2	Washer-Thrust
6	3253-3	6	Washer-Lock/Sp
7	3274-8	6	Screw-HSH
14	83-4970-03	1	Bracket-Bearing
15	3296-29	7	Nut-Lock, NI
16	322-8	4	Screw-HH
17	76-2460	1	Bearing ASM
17:1	94-3405	1	Bearing-Ball
17:1:1	3245-35	1	Screw-HS
17:1:2	251-77	1	Bearing-Lockcollar
17:3	302-5	1	Fitting-Lube
17:4	3245-35	1	Screw-HS
17:5	251-77	1	Bearing-Lockcollar
18	48-9460	1	Capscrew-Hex
19	42-9850	1	Washer-Lock, Spring
20	48-8030	1	Washer

Ref. No.	Part No.	Qty.	Description
21	3274-34	1	Screw-HSFH
22	3230-3	3	Screw-CARR
23	83-4900-03	1	Shaft-Traction

* Not illustrated



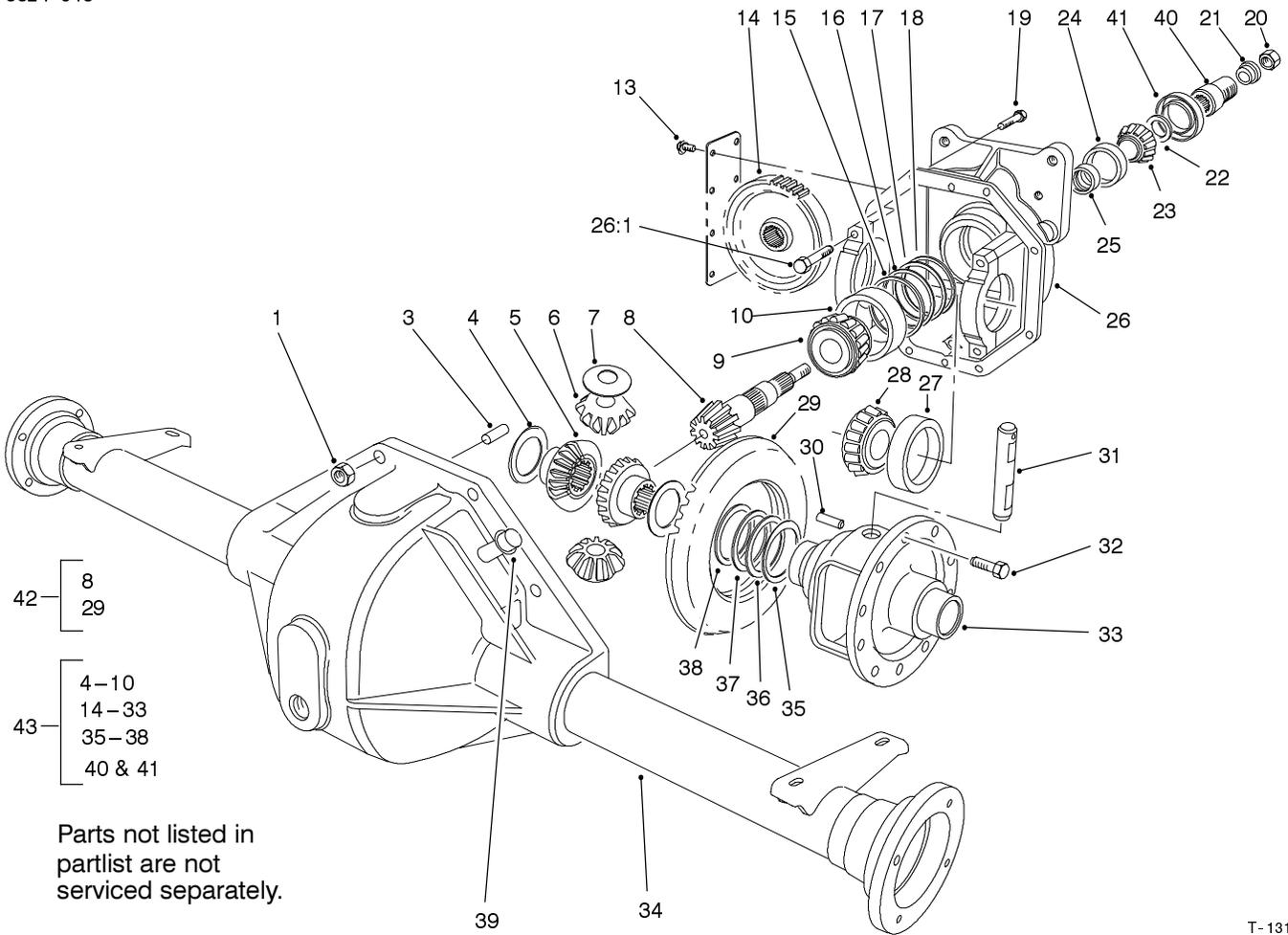
Sheet No.:B9
T-3608

Clutch Housing Assembly

Ref. No.	Part No.	Qty.	Description
1	71-4570-03	1	Housing-Clutch, Roller
2	71-4580	2	Bearing
3	71-4590	1	Washer-Thrust
4	76-4690-03	1	Coupling - Axle
5	253-155	2	Seal-Oil
6	284-3	1	Plug
7	302-5	1	Fitting-Lube
8	3274-8	1	Screw-HSH

Ref. No.	Part No.	Qty.	Description

PROTOTYPE



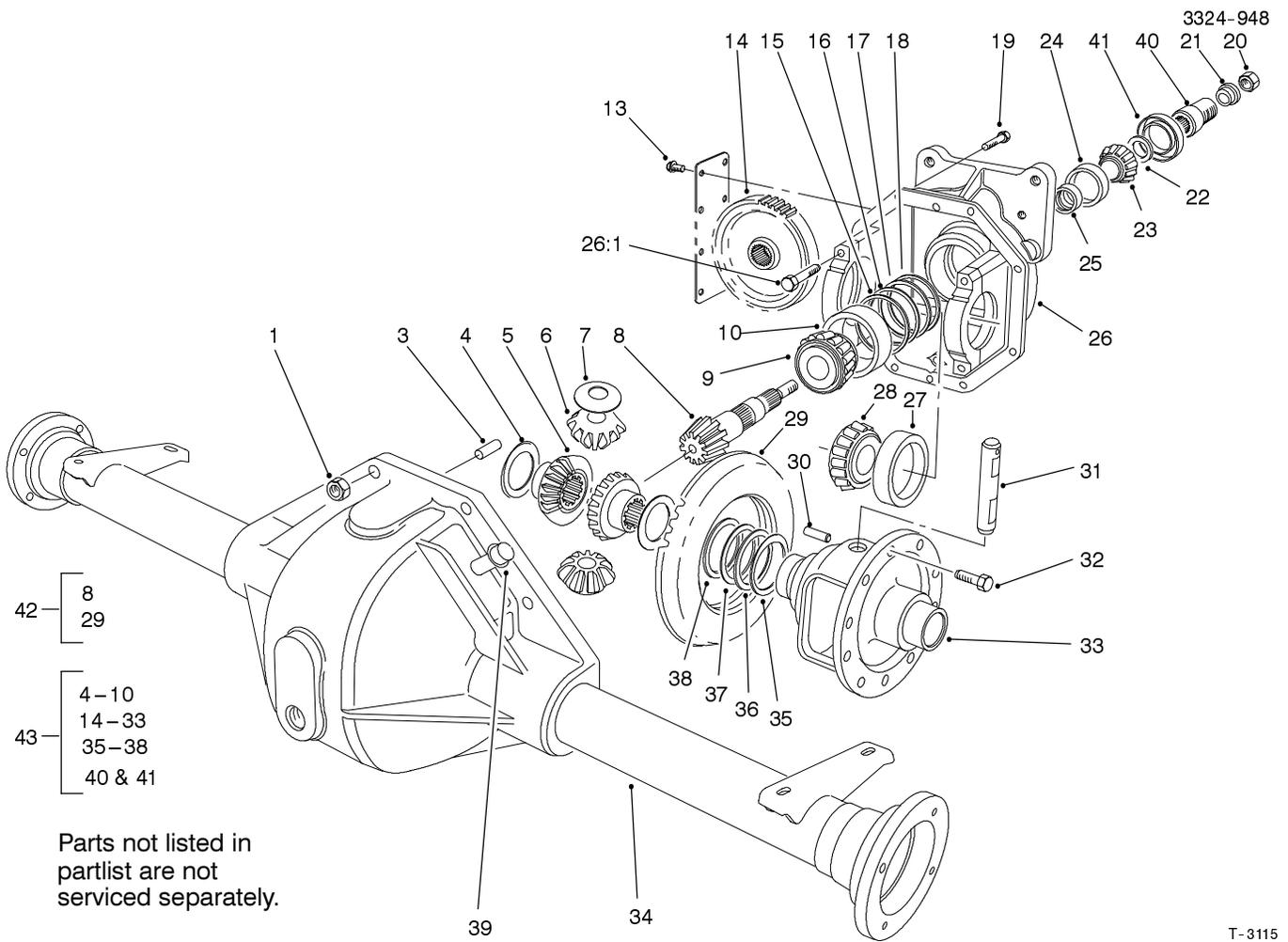
T-1315

Axle Assembly No. 99-6981-03

Ref. No.	Part No.	Qty.	Description
1	32144-5	8	Nut
3	21-8270	2	Pin-Dowel
4	21-7720	2	Washer-Thrust
5	24-8790	2	Gear-Bevel, Differential
6	21-7690	2	Gear-Pinion
7	21-7730	2	Washer-Thrust
9	43-6760	1	Cone-Bearing, Tapered
10	43-6750	1	Cup-Bearing, Tapered
13	32144-112	8	Screw-Forming, Thread
14	86-7230	1	Gear-Spur
15	43-6710	A/R	Diff. Adjust. Shim .003
16	43-6711	A/R	Diff. Adjust. Shim .005
17	43-6712	A/R	Diff. Adjust. Shim .010
18	43-6713	A/R	Diff. Adjust. Shim .030
19	3210-8	8	Screw-HH
20	71-4350	1	Nut
21	83-5130	1	Spacer-Pinion
22	72-3570	A/R	Shim .094-Diff. Adjust.
*	72-3571	A/R	Shim .096-Diff. Adjust.
*	72-3572	A/R	Shim .098-Diff. Adjust.
*	72-3573	A/R	Shim .100-Diff. Adjust.
*	72-3574	A/R	Shim .102-Diff. Adjust.
*	72-3575	A/R	Shim .104-Diff. Adjust.

Ref. No.	Part No.	Qty.	Description
*	72-3576	A/R	Shim .106-Diff. Adjust.
*	72-3577	A/R	Shim .108-Diff. Adjust.
*	72-3578	A/R	Shim .110-Diff. Adjust.
*	72-3580	A/R	Shim .112-Diff. Adjust.
*	72-3581	A/R	Shim .114-Diff. Adjust.
*	72-3582	A/R	Shim .116-Diff. Adjust.
*	72-3583	A/R	Shim .118-Diff. Adjust.
*	72-3584	A/R	Shim .120-Diff. Adjust.
*	72-3585	A/R	Shim .125-Diff. Adjust.
*	72-3586	A/R	Shim .127-Diff. Adjust.
*	72-3587	A/R	Shim .129-Diff. Adjust.
*	72-3588	A/R	Shim .131-Diff. Adjust.
*	72-3590	A/R	Shim .133-Diff. Adjust.
*	72-3591	A/R	Shim .135-Diff. Adjust.
*	72-3592	A/R	Shim .137-Diff. Adjust.
*	72-3593	A/R	Shim .139-Diff. Adjust.
*	72-3594	A/R	Shim .141-Diff. Adjust.
*	72-3595	A/R	Shim .143-Diff. Adjust.
*	72-3596	A/R	Shim .145-Diff. Adjust.
*	72-3597	A/R	Shim .147-Diff. Adjust.
*	72-3598	A/R	Shim .149-Diff. Adjust.
*	72-3600	A/R	Shim .151-Diff. Adjust.
23	254-91	1	Cone-Bearing
24	21-8390	1	Cup-Bearing
25	21-8020	1	Spacer-Pinion, Front

* Not Illustrated.



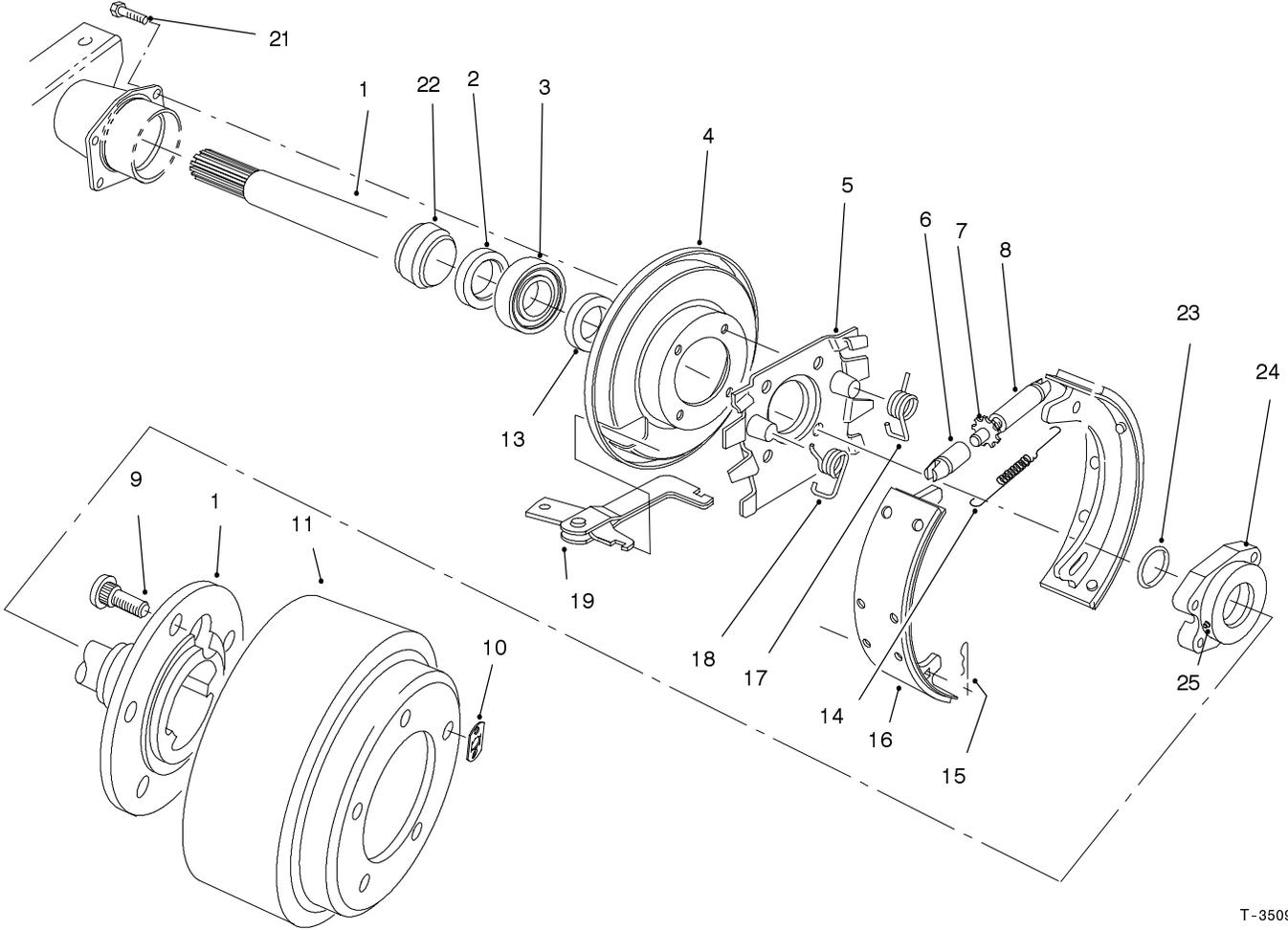
T-3115

Axle Assembly No. 99-6981-03 (Continued)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
26	93-3619	1	Housing-Upper				
26:1	92-1773	4	Screw-HH				
27	254-66	2	Cup-Bearing, Tapered				
28	254-65	2	Cone-Bearing, Tapered				
30	21-7710	1	Pin-Roll				
31	21-7700	1	Shaft-Mate, Pinion				
32	21-7770	5	Screw-Gear, Drive				
33	21-7670	1	Case-Differential				
34	75-0721	1	Housing-Lower				
35	21-8120	A/R	Diff. Adjust. Shim .030				
36	21-8110	A/R	Diff. Adjust. Shim .010				
37	21-8100	A/R	Diff. Adjust. Shim .005				
38	21-8090	A/R	Diff. Adjust. Shim .003				
39	72-9420	1	Vent Tube ASM				
40	83-4910	1	Coupler-Pinion				
41	71-4330	1	Seal				
42	93-3618	1	Gear and Pinion ASM				
43	93-3617	1	Differential ASM				

* Not Illustrated.

3324-948



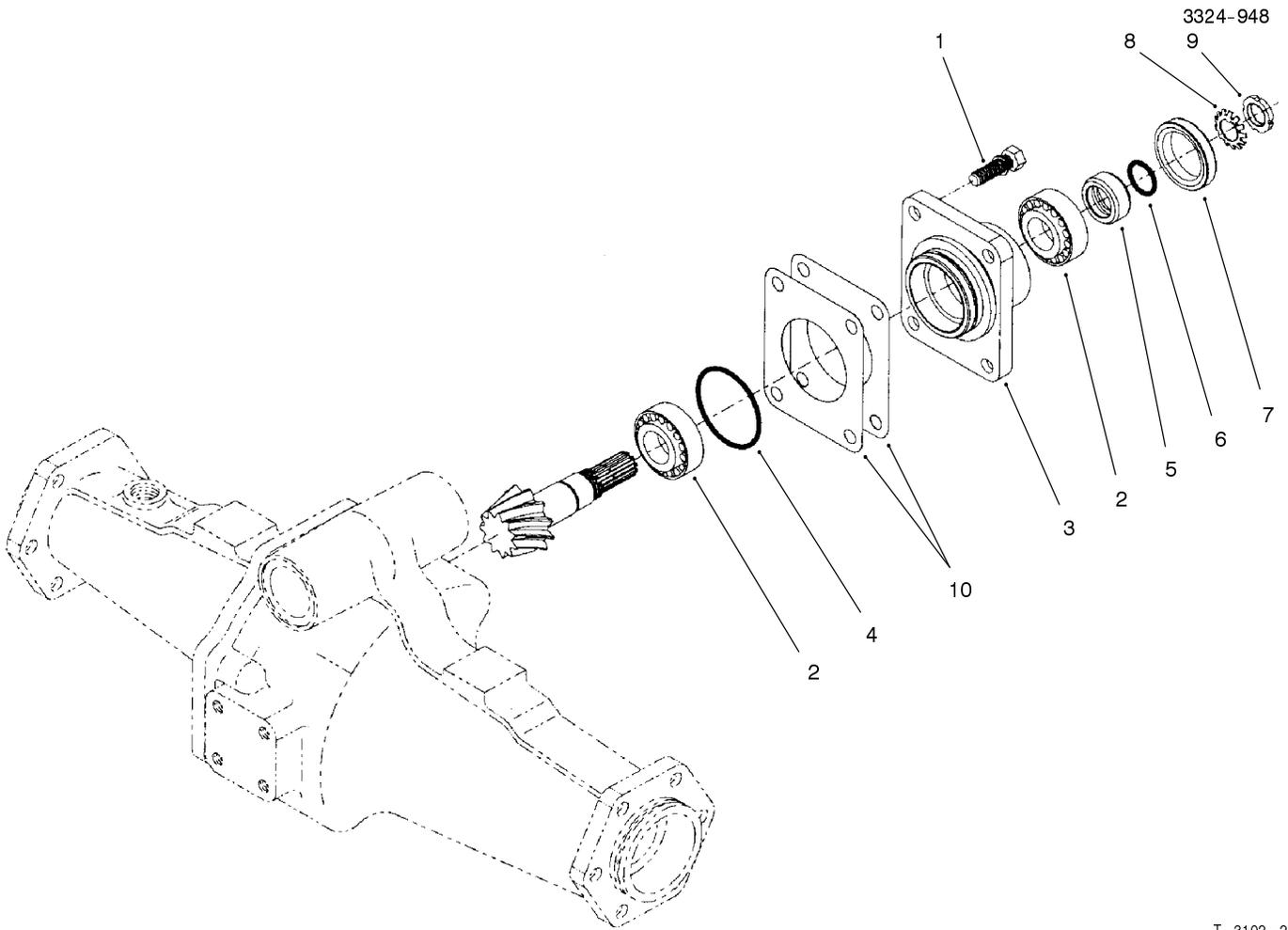
T-3509

Brake Assembly

Ref. No.	Part No.	Qty.	Description
1	100-3840	1	Shaft-Axle, Flanged LH
*	100-3841	1	Shaft-Axle Flanged RH
2	100-3842	2	Seal-Oil
3	21-8180	2	Bearing
4	100-3843	2	Shield-Dust
5	100-3844	2	Spider-Torque
6	21-9390	2	Socket-Screw, Adjusting
7	21-9370	2	Screw-Adjusting
8	21-9380	2	Nut-Pivot
9	242-34	10	Stud-Flange, Axle
10	21-8360	2	Clip-Retaining
11	28-0680	2	Drum-Brake
13	100-3845	2	Seal-Grease
14	21-9440	2	Spring-Screw, Adjusting
15	21-9460	4	Retainer-Brake, Parking
16	84-8590	4	Shoe and Lining ASM
17	21-9420	2	Spring-Shoe Return, LH
18	21-9430	2	Spring-Shoe Return, RH
19	24-9180	2	Lever-Brake, Parking

Ref. No.	Part No.	Qty.	Description
21	100-3846	8	Screw-HSH
22	100-3847	2	Retaining-Bearing
23	100-3848	2	O-Ring
24	100-3849	2	Cap-Bearing
25	100-3850	2	Zerk-Special
*	84-8600	1	Set of Linked Brake Shoes
*	92-8775	1	Kit-Gasket, Liquid

* Not Illustrated



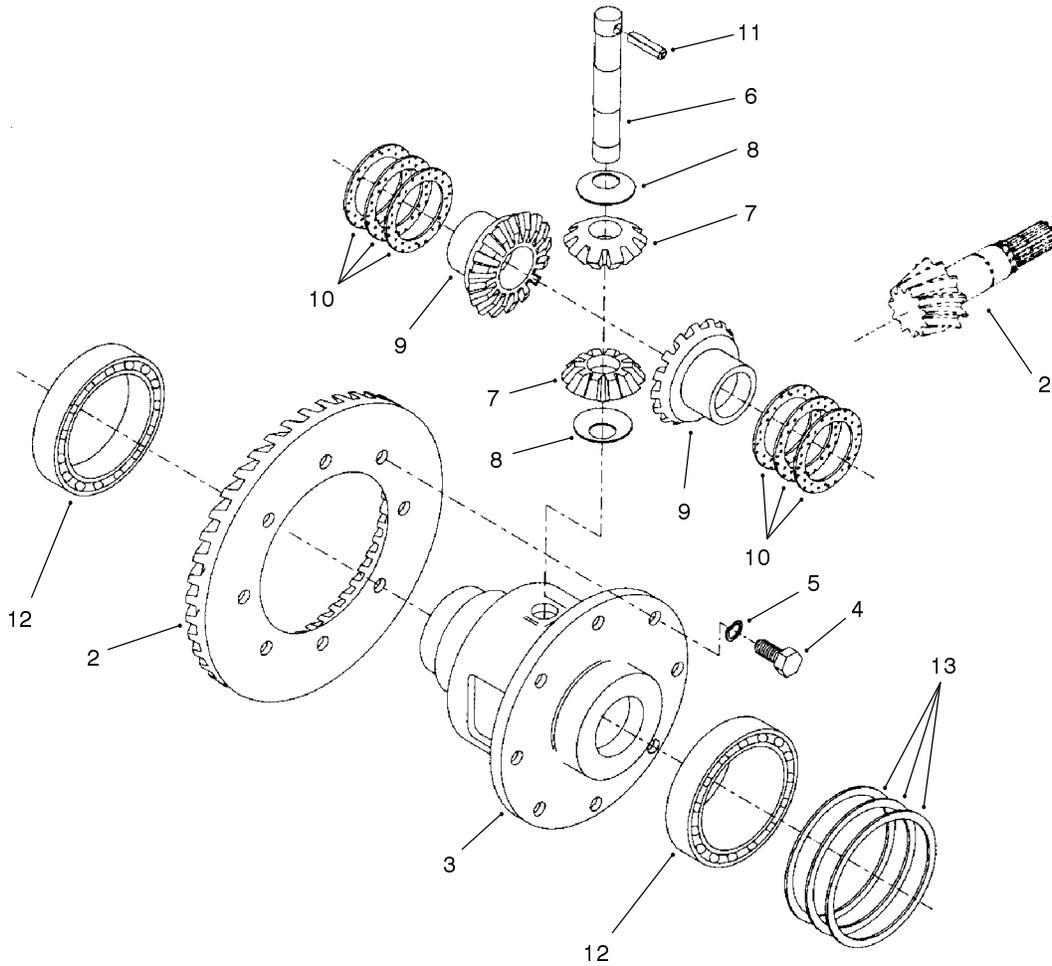
T-3102-2

Rear Axle Assembly No. 98-3925 Bevel Pinion Shaft Assembly

Ref. No.	Part No.	Qty.	Description
1	99-7575	4	Bolt
2	99-7570	2	Bearing-Taper Roller
3	95-7535	1	Case-Bearing
4	99-7571	1	O-Ring
5	99-7572	1	Collar-Oil Seal
6	99-7573	1	O-Ring
7	99-7574	1	Seal-Oil
8	99-7559	1	Washer-Lock
9	99-7560	1	Nut-Lock
10	99-7550	2	Shim-0.1
*	99-7551	2	Shim-0.2

Ref. No.	Part No.	Qty.	Description

* Not Illustrated

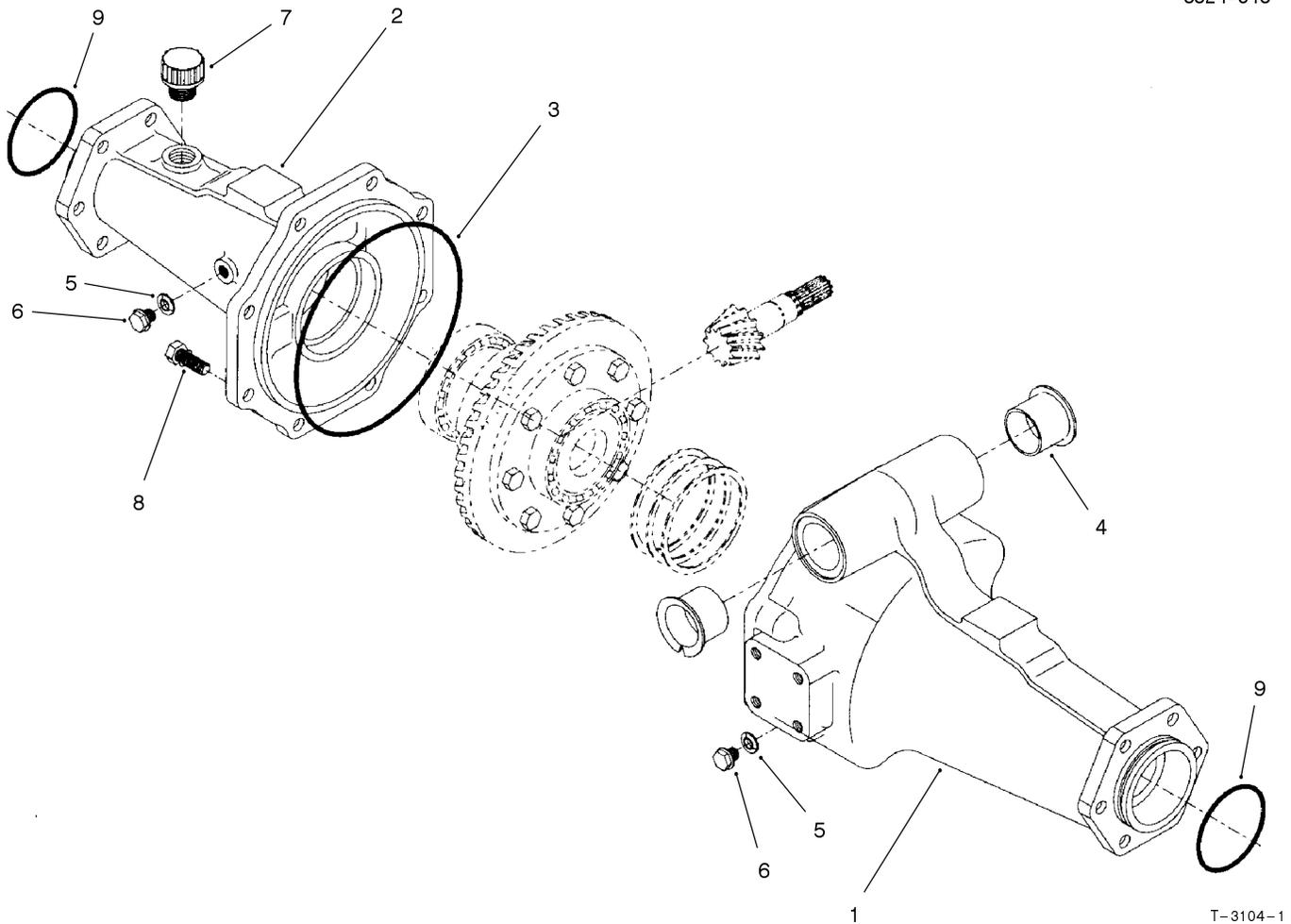


T-3103-2

Rear Axle Assembly No. 98-3925 (Continued) Differential Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	95-7503	1	Asm-Differential (Incl. Ref. #2-11)				
2	100-2555	1	Ring & Pinion Set				
3	95-7502	1	Case-Differential				
4	99-7576	8	Bolt				
5	99-7577	8	Washer-Spring				
6	99-7578	1	Shaft-Differential Pinion				
7	99-7579	2	Pinion-Differential				
8	99-7580	2	Washer-Differential Pinion				
9	99-7581	2	Gear-Differential, Side				
10	99-7582	2	Washer-Differential				
*	99-7583	2	Washer-Differential				
*	99-7584	2	Washer-Differential				
11	99-7588	1	Pin-Spring				
12	99-7562	2	Bearing-Ball				
13	99-7585	2	Shim-0.1				
*	99-7586	2	Shim-0.2				
*	99-7587	2	Shim-0.4				
* Not Illustrated							

PROTOTYPE



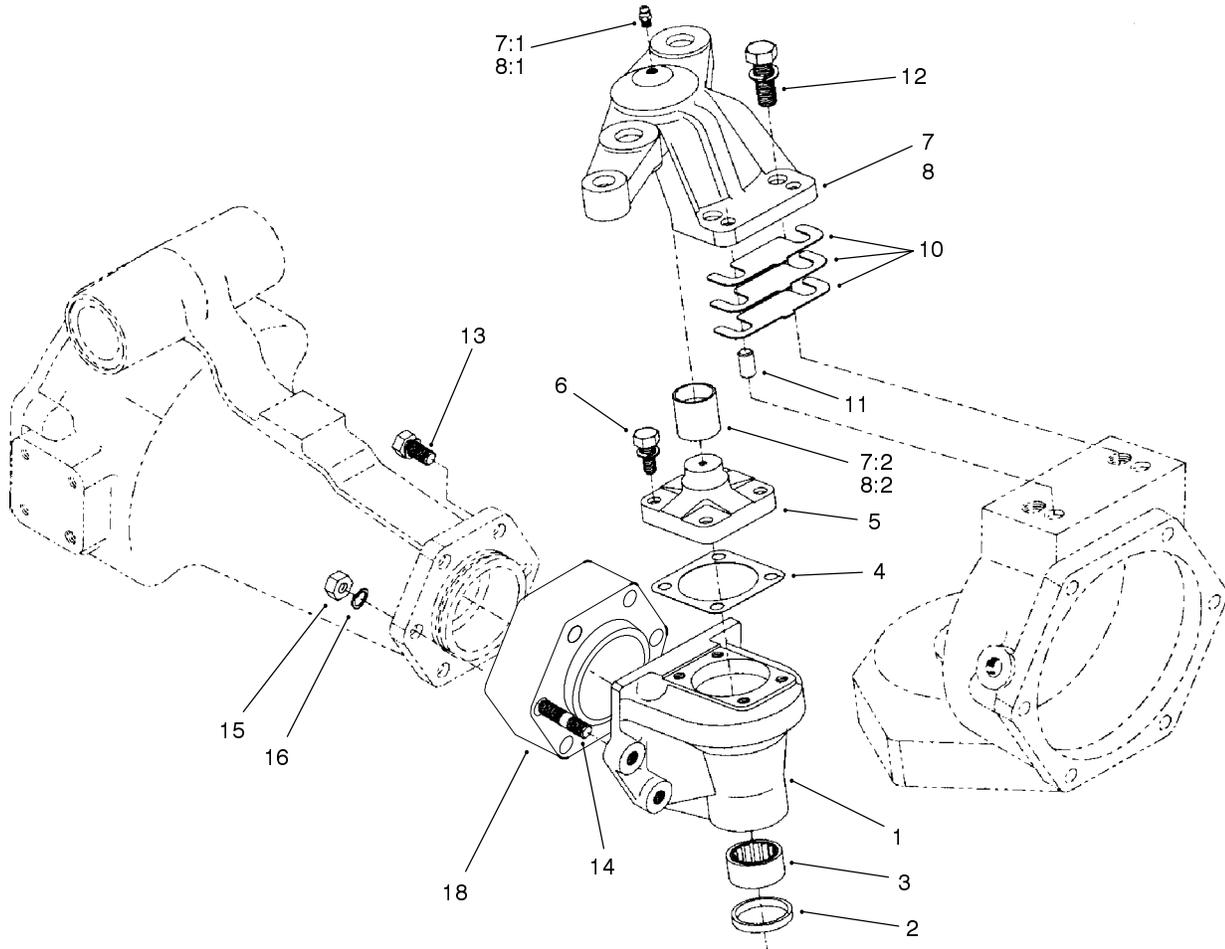
T-3104-1

Rear Axle Assembly No. 98-3925 (Continued) Axle Support Assembly

Ref. No.	Part No.	Qty.	Description
1	95-7508	1	Support #1-Axle
2	95-7506	1	Support #2-Axle
3	95-7507	1	O-Ring
4	95-7537	2	Bushing-Flange
5	99-7589	2	Plug
6	99-7590	2	Washer-Seal
7	99-7591	1	Asm-Oil Plug
8	99-7592	8	Bolt
9	99-7593	2	O-Ring

Ref. No.	Part No.	Qty.	Description

PROTOTYPE



T-3385

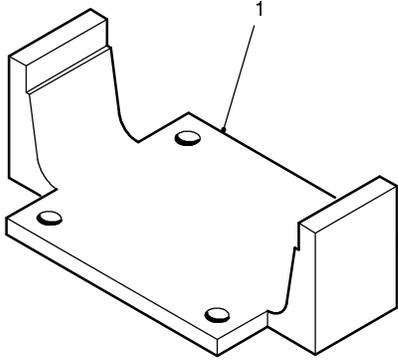
Rear Axle Assembly No. 98-3925 (Continued) Bevel Gear Case Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	95-7539	2	Case-Bevel Gear				
2	99-7594	2	Seal-Oil				
3	99-7595	2	Bearing-Needle				
4	95-7511	2	Gasket				
5	95-7510	2	Pin-Knuckle				
6	99-7596	8	Bolt				
7	100-3746	1	Support-Axle Case, RH				
7:1	99-7528	2	Nipple-Grease				
7:2	99-7529	2	Bushing				
8	100-3748	1	Support-Axle Case, LH				
8:1	99-7528	2	Nipple-Grease				
8:2	99-7529	2	Bushing				
10	95-7547	2	Shim-0.1				
*	95-7548	2	Shim-0.2				
*	95-7549	2	Shim-0.3				
11	99-7597	4	Pin-Straight				
12	99-7598	4	Bolt				
13	100-3736	8	Bolt				
14	100-3737	4	Stud				
15	99-7526	4	Nut				
16	99-7527	4	Washer-Spring				
18	99-7565	2	Spacer				
*	Not Illustrated						

PROTOTYPE

Special Tools

AXLE TOOL NO. *TOR859920

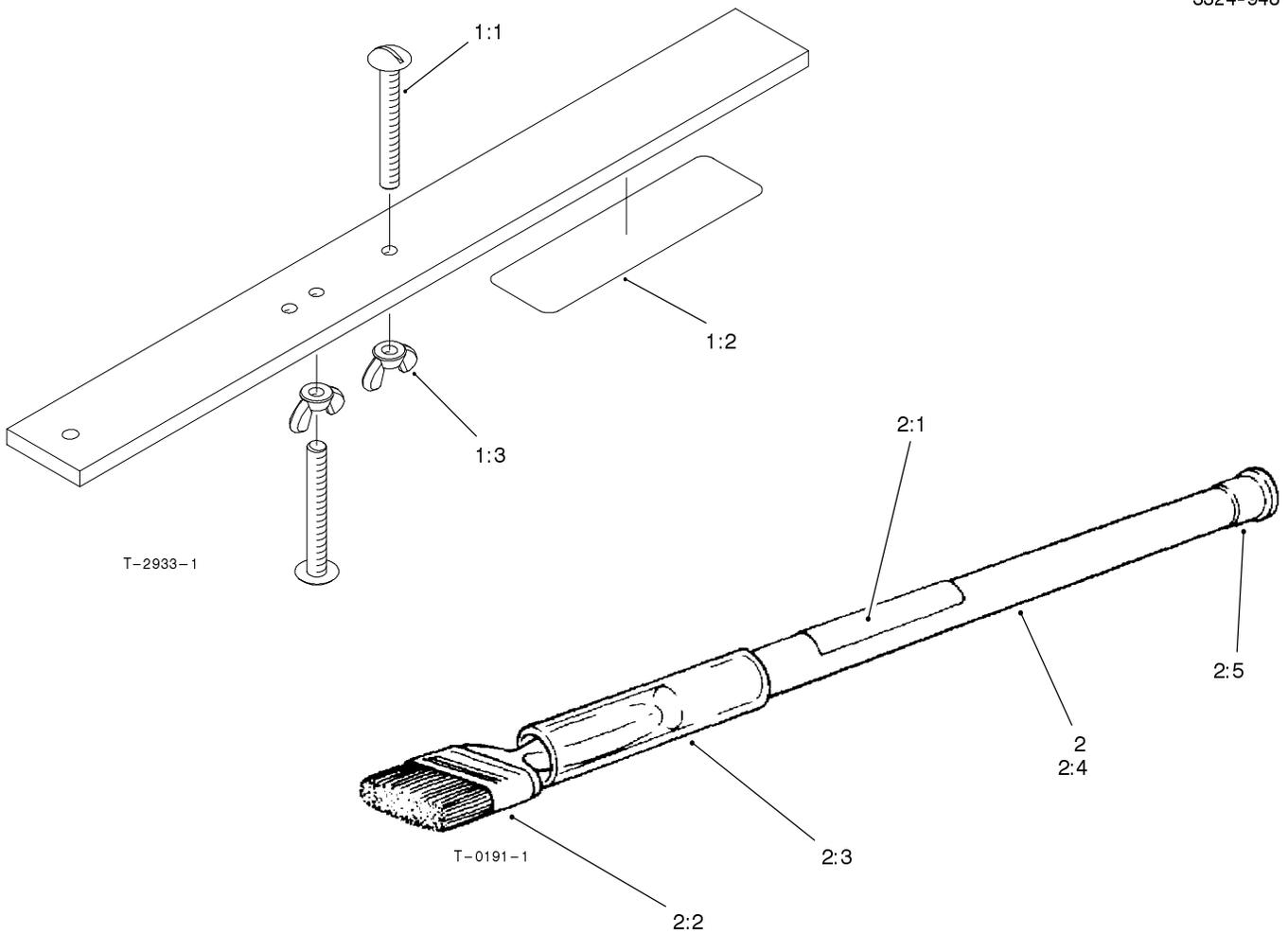


T-1325-1

Ref. No.	Part No.	Description	No. Used
1		Tool-Axle	1

PROTOTYPE

*Obtain these items directly from OTC 2013 4th St. Owatonna, MN. 55060 1-800-533-0492
(in Minnesota and Canada 1-507-455-7050) Fax. 507-455-7011.



Gauge Bar and Backlapping Brush Assembly

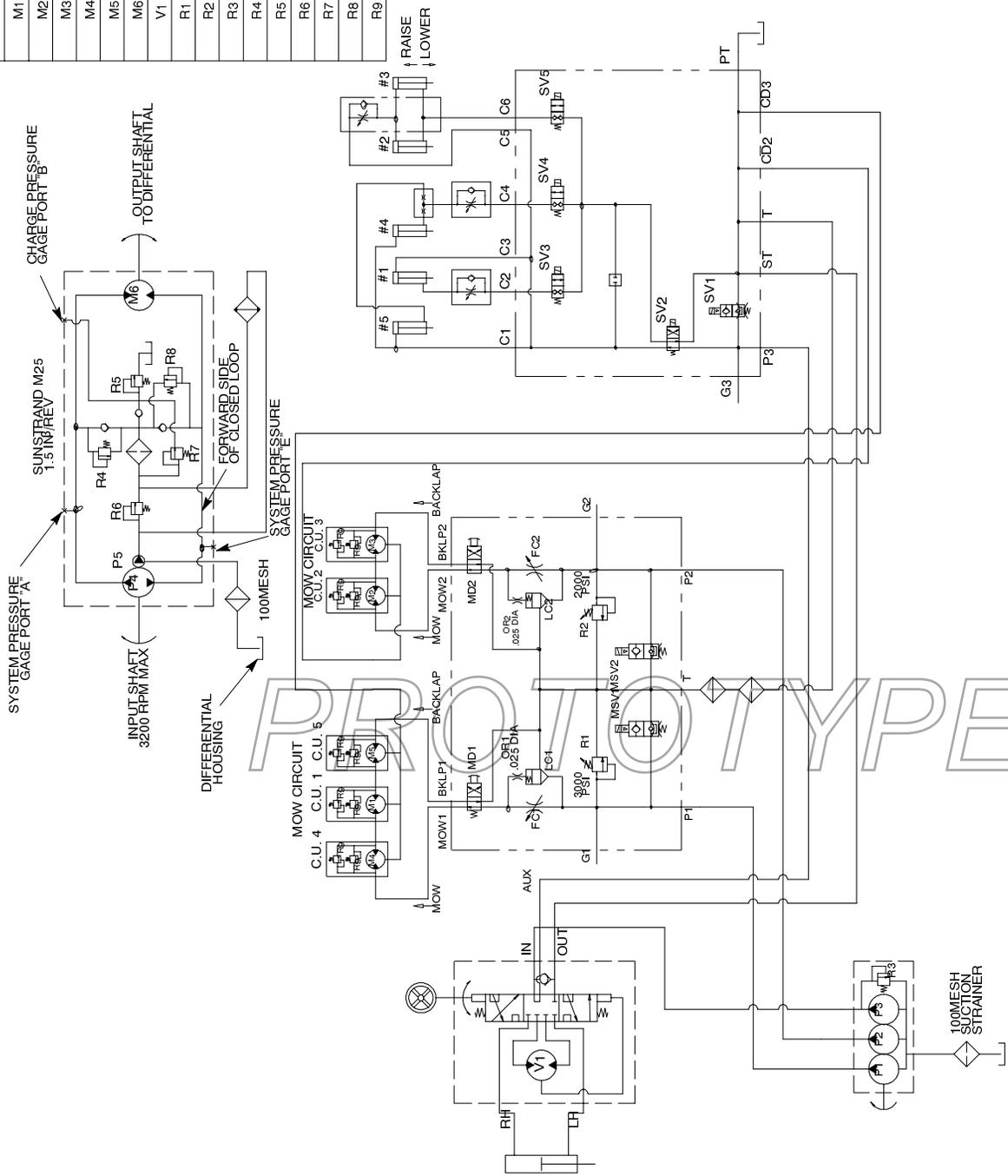
Ref. No.	Part No.	Qty.	Description
1	98-1852	1	Gauge Bar ASM
1:1	32122-54	2	Screw
1:2	98-7976	1	Decal
1:3	32103-3	2	Nut-Wing
2	29-9100	1	Backlapping Brush ASM
2:1	12-9140	1	Decal
2:2	36-4310	1	Brush
2:3	29-9090	1	Hose-Handle
2:4	29-9080	1	Handle
2:5	2410-18	1	Plug

Ref. No.	Part No.	Qty.	Description

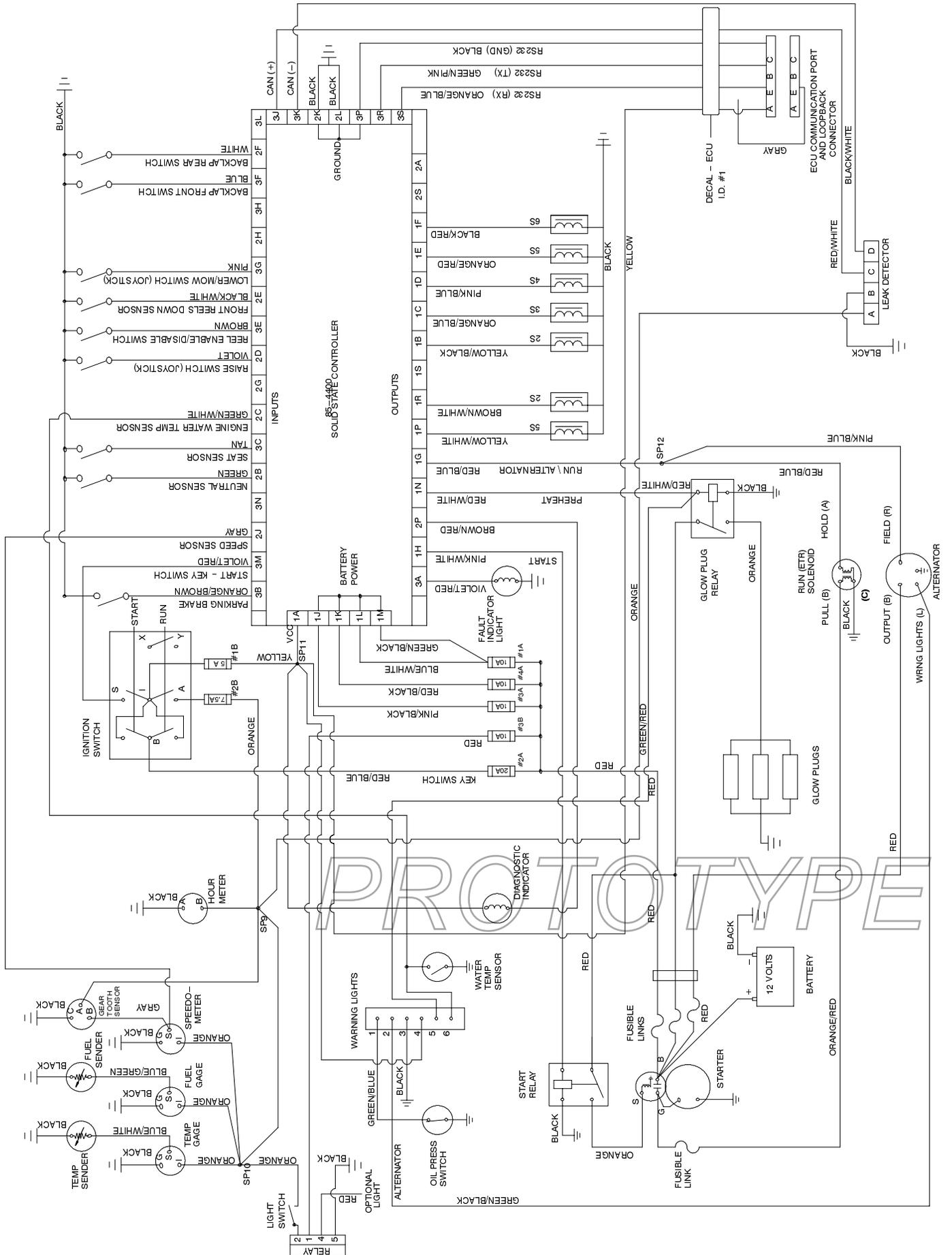
PROTOTYPE

Hydraulic Schematic

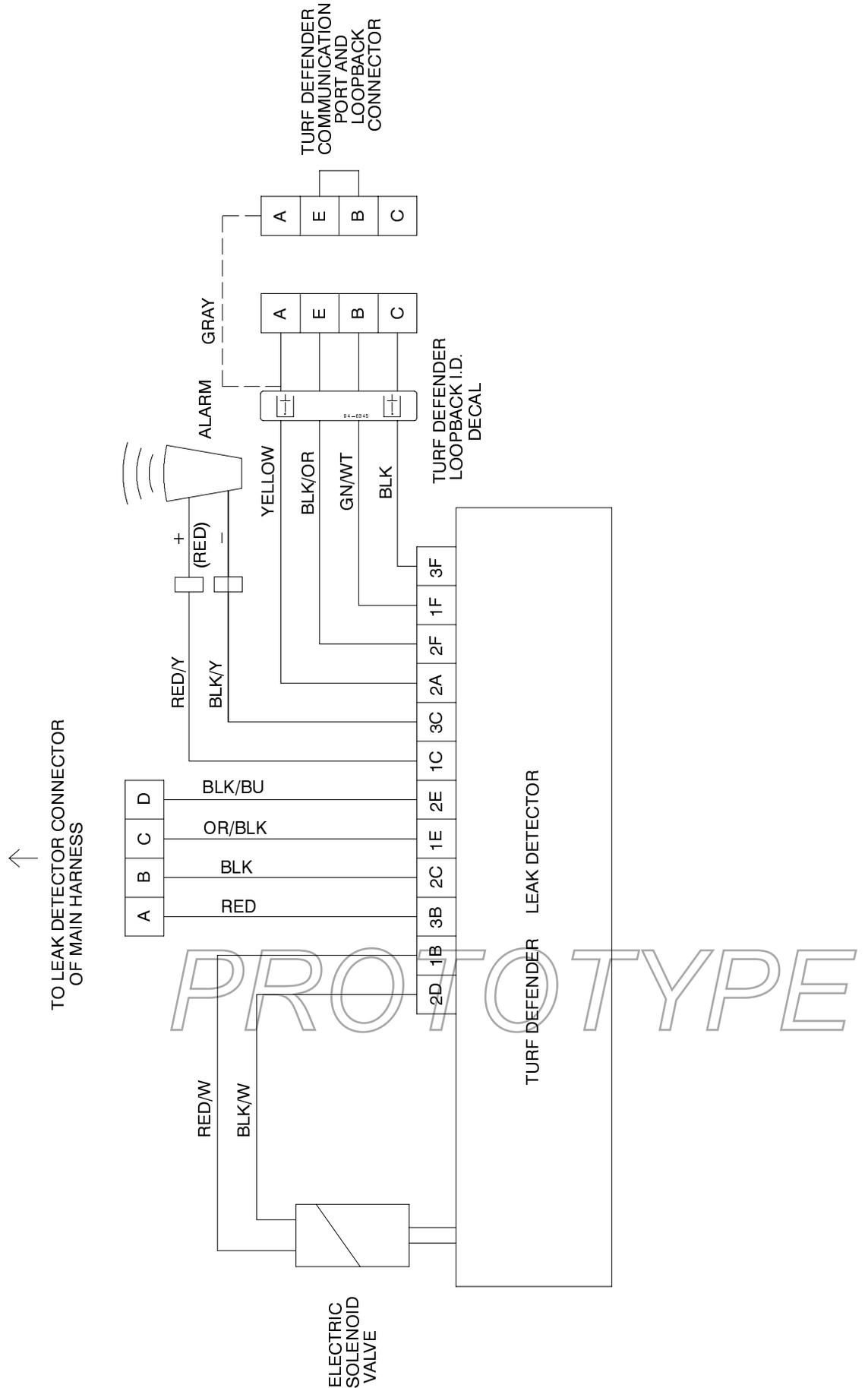
DISPLACEMENT, FLOW RATE AND PRESSURE CHART						
COMPONENT	DISPLACEMENT		PRESSURE	*FLOW RATE		
	in ³ /rev	cm ³ /rev		lbs/in ²	GPM	LPM
P1	.66	10.8		8.4	31.8	
P2	.66	10.8		8.4	31.8	
P3	.37	6		4.7	17.8	
P4	1.5	25		19.1	72.3	
P5	.58	9.5		7.4	28	
M1	1.16	19				
M2	1.16	19				
M3	1.16	19				
M4	1.16	19				
M5	1.16	19				
M6	1.51	25				
V1	6.1	100				
R1			3000	207		
R2			3000	138		
R3			1450	100		
R4			3625	250		
R5			150	10		
R6			70	5		
R7			70	5		
R8			3625	250		
R9			1500	103		

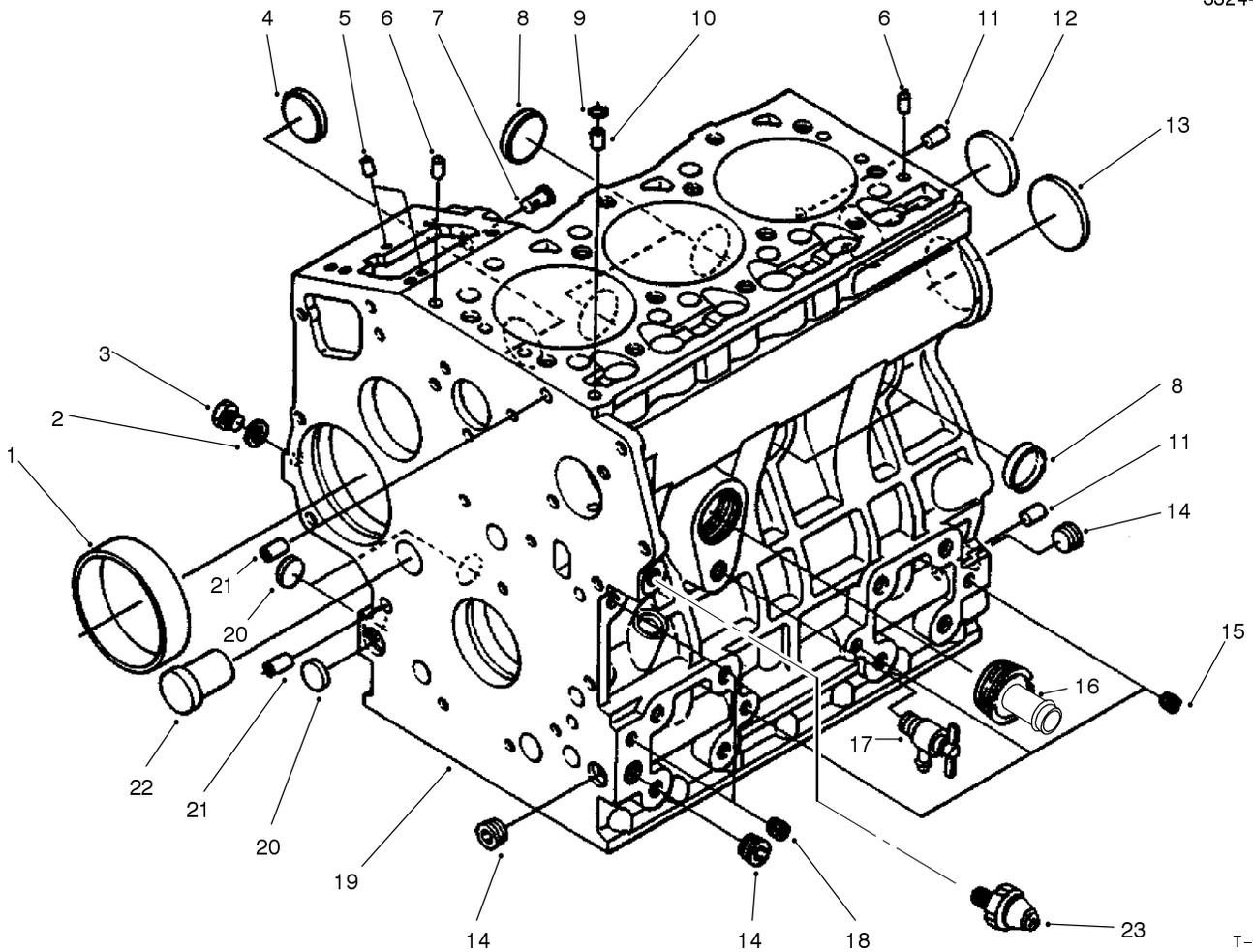


Electrical Schematic



Electrical Schematic - Turfdefender



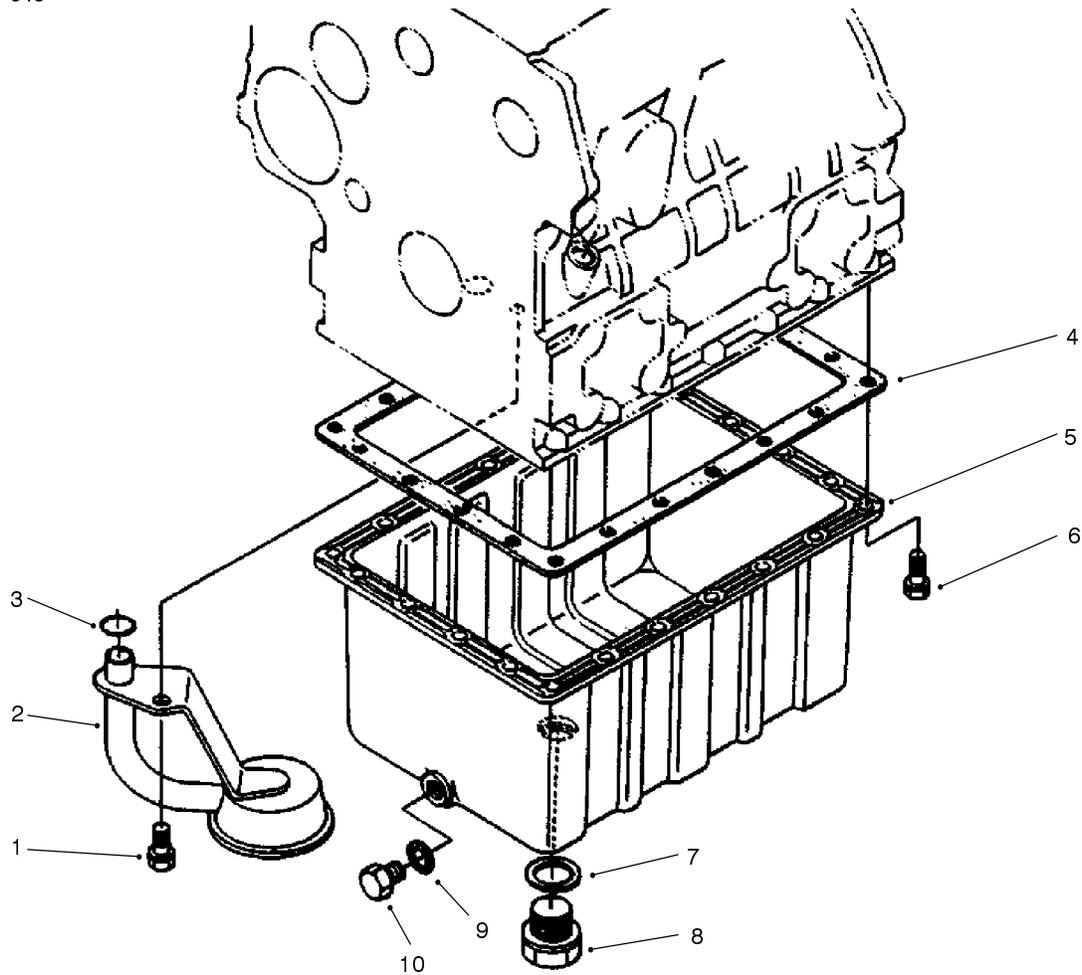


T-2906

Crankcase Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9656	1	Bushing-Governor, Gear
2	98-7428	1	Gasket
3	98-7507	1	Plug
4	98-9599	1	Plug
5	98-9375	2	Pin-Straight
6	98-9376	2	Pin-Straight
7	98-9630	1	Pin-Start Spring
8	98-9398	4	Cap-Sealing
9	98-7509	1	O-Ring
10	98-9539	1	Pin-Pipe
11	98-9377	2	Pin-Straight
12	98-7539	1	Cap-Sealing
13	98-9668	1	Plug
14	98-9597	3	Plug
15	98-7540	3	Plug
16	99-8347	1	Joint-Drain, Pipe
17	98-9436	1	Asm-Cock, Drain
18	98-7487	2	Plug
19	99-8300	1	Asm-Crankcase (Incl. Ref. #1-8, 10-16, 18 & 20-22)
20	98-9379	3	Plug
21	98-9387	2	Pin-Pipe

Ref. No.	Part No.	Qty.	Description
22	98-9675	1	Plug
23	98-9416	1	Switch

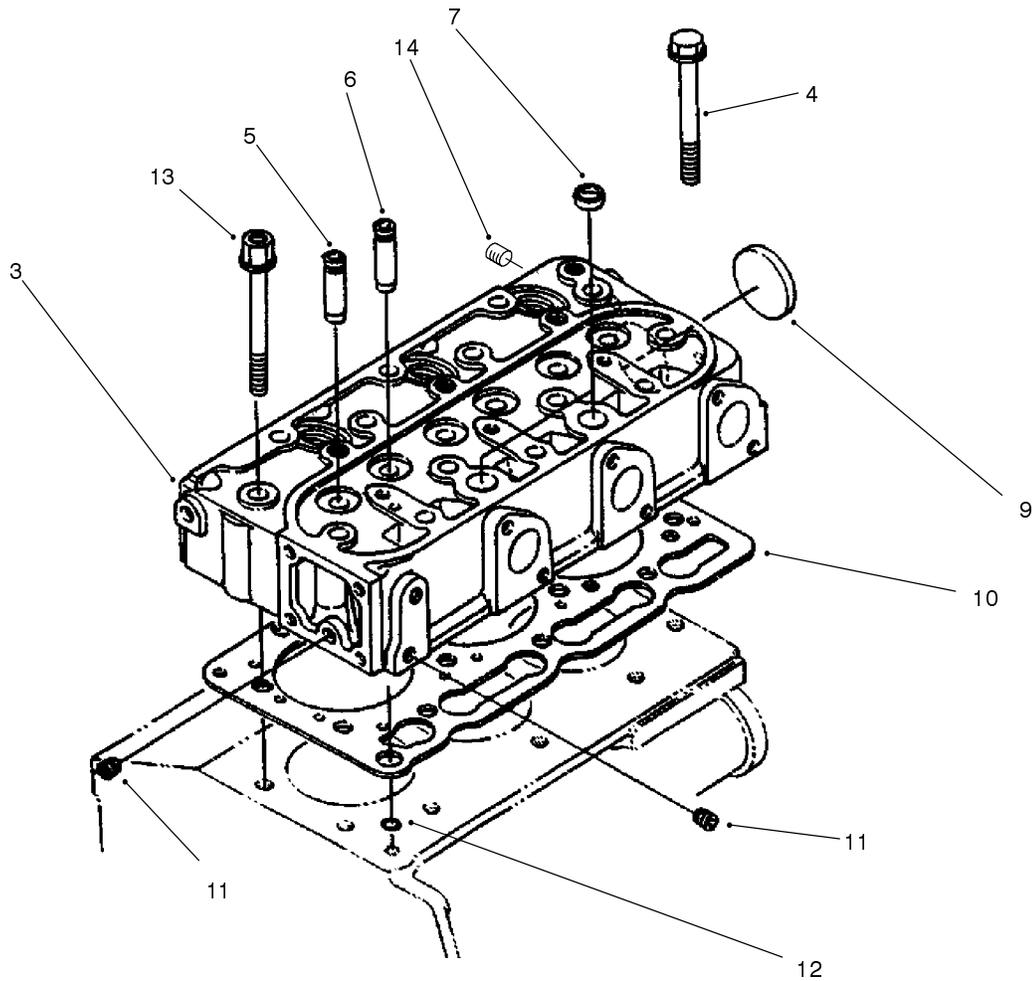


T-2907

Oil Pan Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9358	1	Bolt				
2	98-9538	1	Filter-Oil				
3	98-7527	1	O-Ring				
4	98-9646	1	Gasket-Oil Pan				
5	98-9685	1	Oil Pan				
6	98-9350	22	Bolt				
7	98-9399	1	Gasket				
8	98-7523	1	Plug-Drain				
9	98-7524	1	Gasket				
10	98-9386	1	Plug				

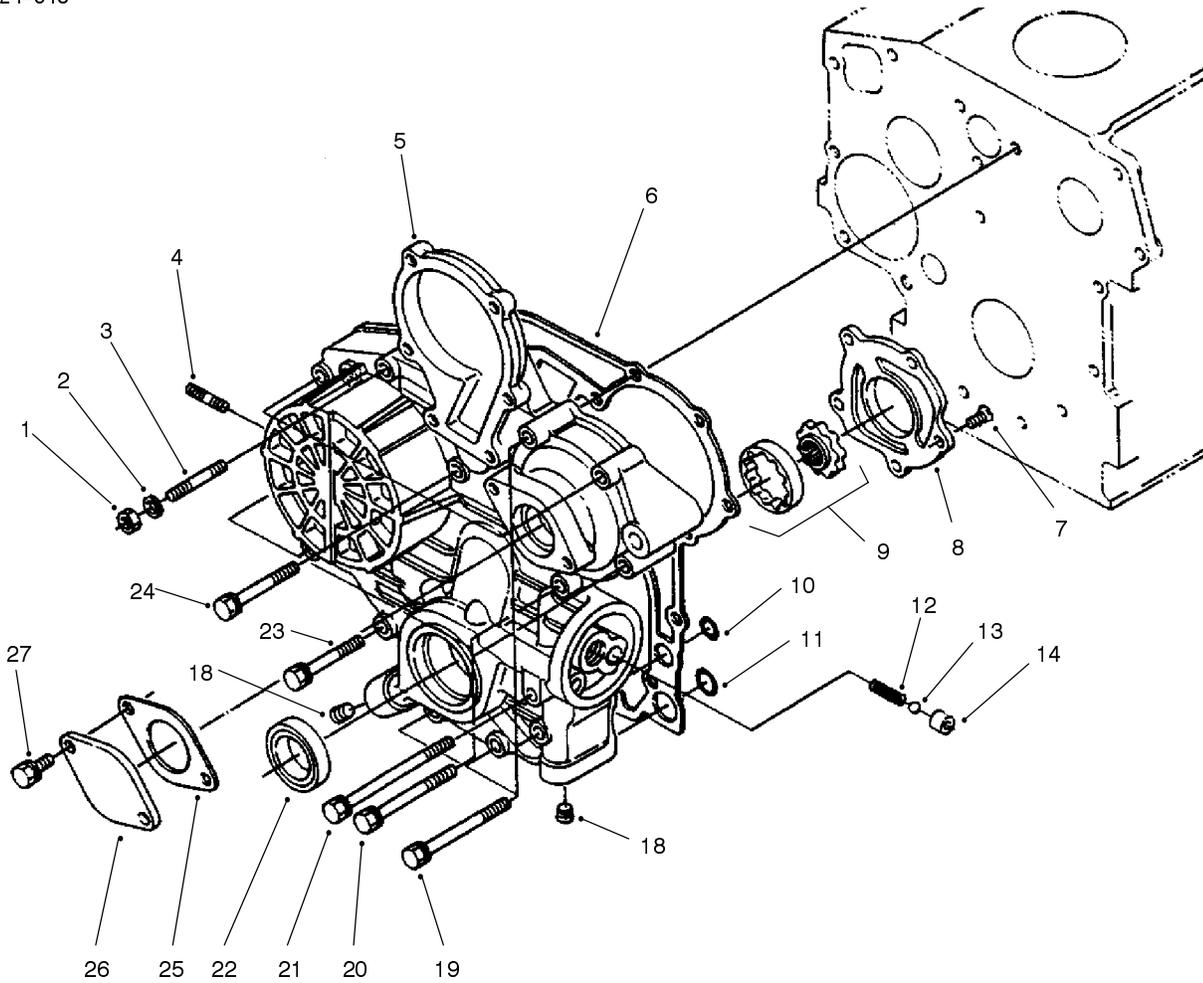
PROTOTYPE



T-2908-1

Cylinder Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
3	99-8344	1	Asm-Cylinder Head (Incl. Ref. #5-7, 9,11 & 14)				
4	98-9479	12	Bolt-Cylinder Head				
5	98-9499	3	Guide-Inlet Valve				
6	98-9500	3	Guide-Exhaust Valve				
7	98-9389	2	Cap-Sealing				
9	98-9395	1	Cap-Sealing				
10	98-9613	1	Gasket-Cylinder Head				
11	98-7540	2	Plug				
12	98-7509	1	O-Ring				
13	98-9647	2	Bolt-Cylinder Head				
14	98-9444	1	Plug				



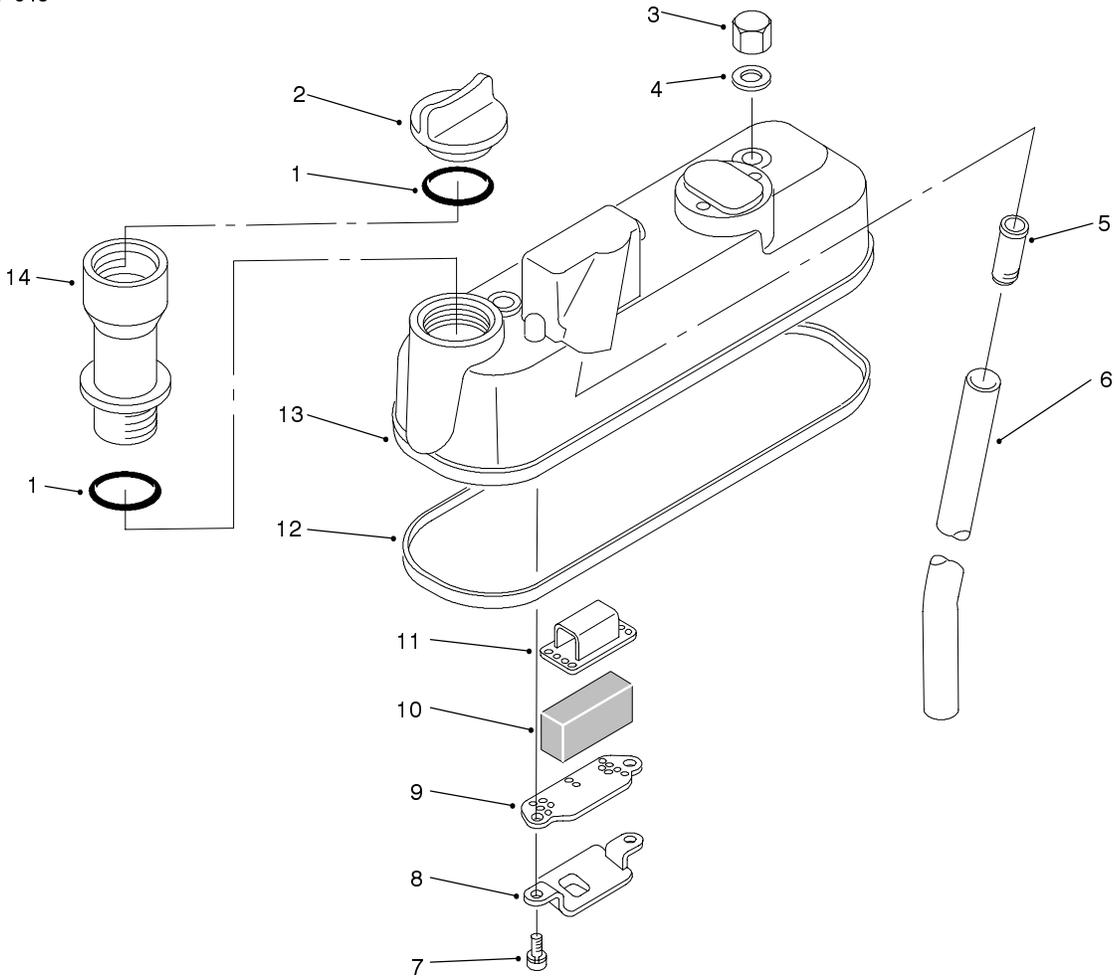
T-2909

Gear Case Assembly

Ref. No.	Part No.	Qty.	Description
1	98-7572	1	Nut
2	98-9367	1	Washer-Lock
3	98-9363	1	Stud
4	98-9362	2	Stud
5	99-8381	1	Asm-Case, Gear (Incl. Ref. #7-9, 12-14 & 18)
6	98-9633	1	Gasket-Gear Case
7	98-9592	5	Screw
8	98-9541	1	Cover-Oil Pump
9	98-9540	1	Asm-Rotor, Oil Pump
10	98-9372	2	O-Ring
11	98-7547	2	O-Ring
12	98-9544	1	Spring
13	98-9380	1	Ball
14	98-9543	1	Seal-Valve
18	98-9598	2	Plug
19	98-9356	2	Bolt
20	98-9355	6	Bolt
21	98-9586	1	Bolt
22	98-9482	1	Seal-Oil
23	98-9437	1	Bolt
24	98-7496	3	Bolt
25	98-9684	1	Gasket-Gear Case

Ref. No.	Part No.	Qty.	Description
26	98-9641	1	Cover Bolt
27	98-7692	2	Bolt

PROTOTYPE



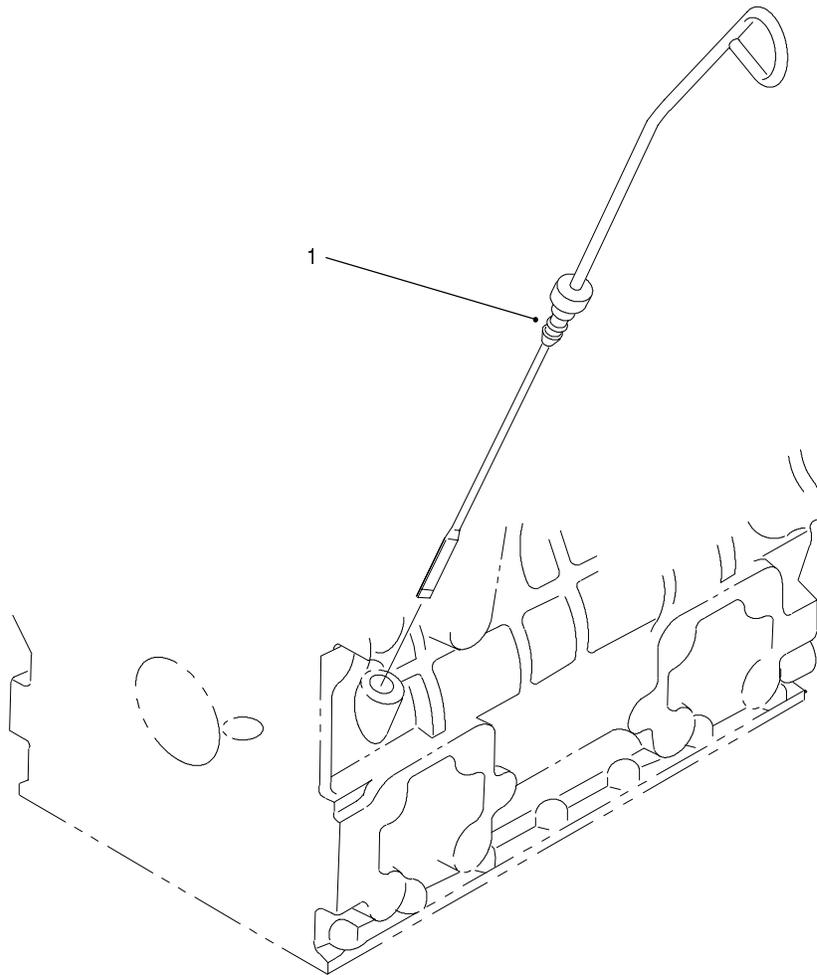
T-2910-1

Head Cover Assembly

Ref. No.	Part No.	Qty.	Description
1	98-7430	2	O-Ring
2	98-9449	1	Plug-Oil Filler
3	98-9455	3	Nut-Cap
4	98-9454	3	Gasket
5	98-9492	1	Joint-Breather Pipe
6	98-9491	1	Pipe-Breather
7	98-9364	2	Screw w/washer
8	98-9490	1	Oil Shield-Breather
9	98-9488	1	Plate-Breather Element
10	98-9493	1	Element-Breather
11	98-9489	1	Plate-Breather Element
12	98-9615	1	Gasket-Head Cover
13	98-9614	1	Asm-Cover, Cylinder Head (Incl. Ref. #5 & 7-12)
14	99-8349	1	Extension-Fill, Oil

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

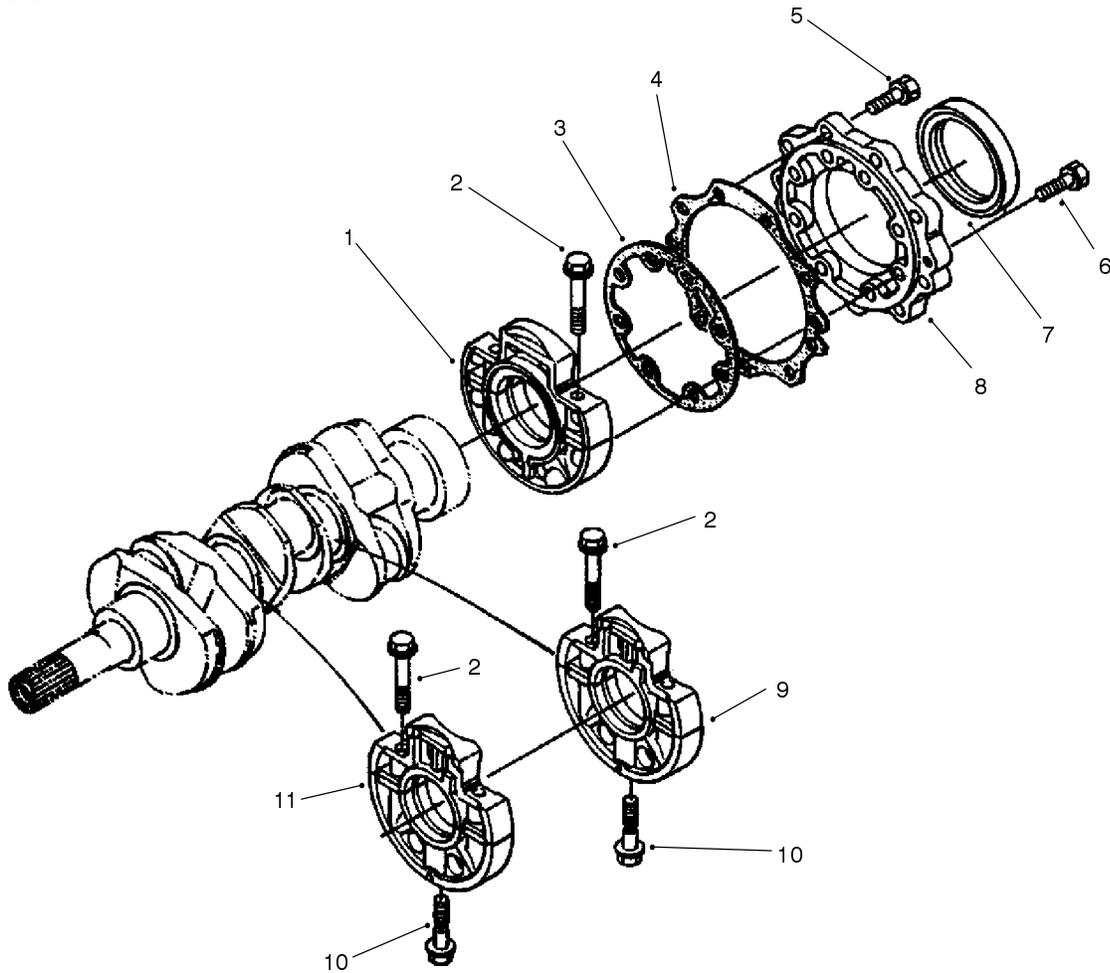


T-3094

Dipstick Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9627	1	Gauge-Oil				

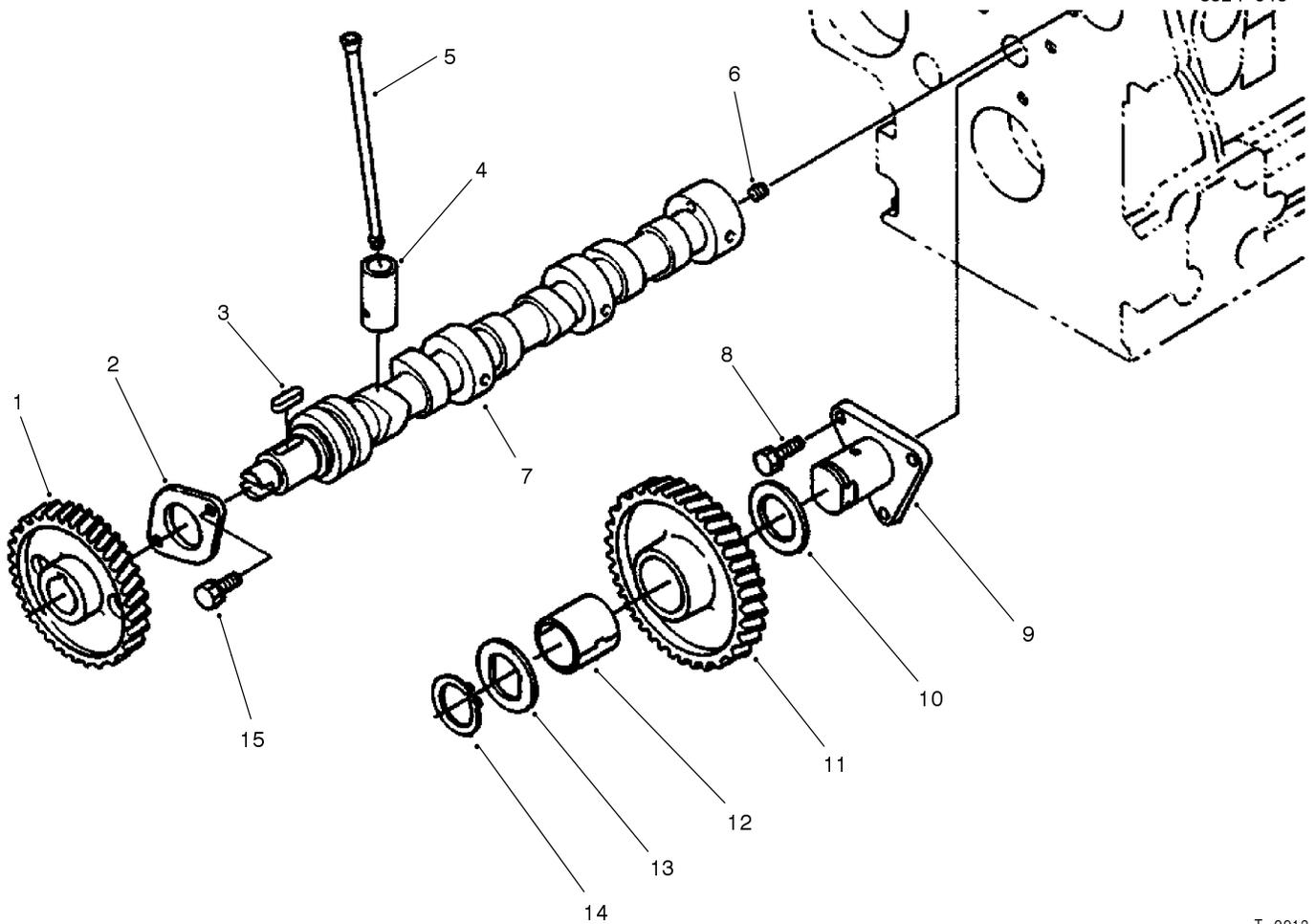
PROTOTYPE



T-2912

Main Bearing Case Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9480	1	Asm-Case, Main Bearing				
2	98-9484	6	Bolt-Bearing Case				
3	98-9634	1	Gasket-Bearing Case				
4	98-9635	1	Gasket-Bearing Case Cover				
5	98-7568	9	Bolt				
6	98-9352	8	Bolt				
7	98-9483	1	Seal-Oil				
8	98-9487	1	Cover-Bearing Case				
9	99-8360	1	Asm-Case, Main Bearing				
10	98-9485	2	Bolt-Bearing Case				
11	99-8361	1	Asm-Case, Main Bearing				



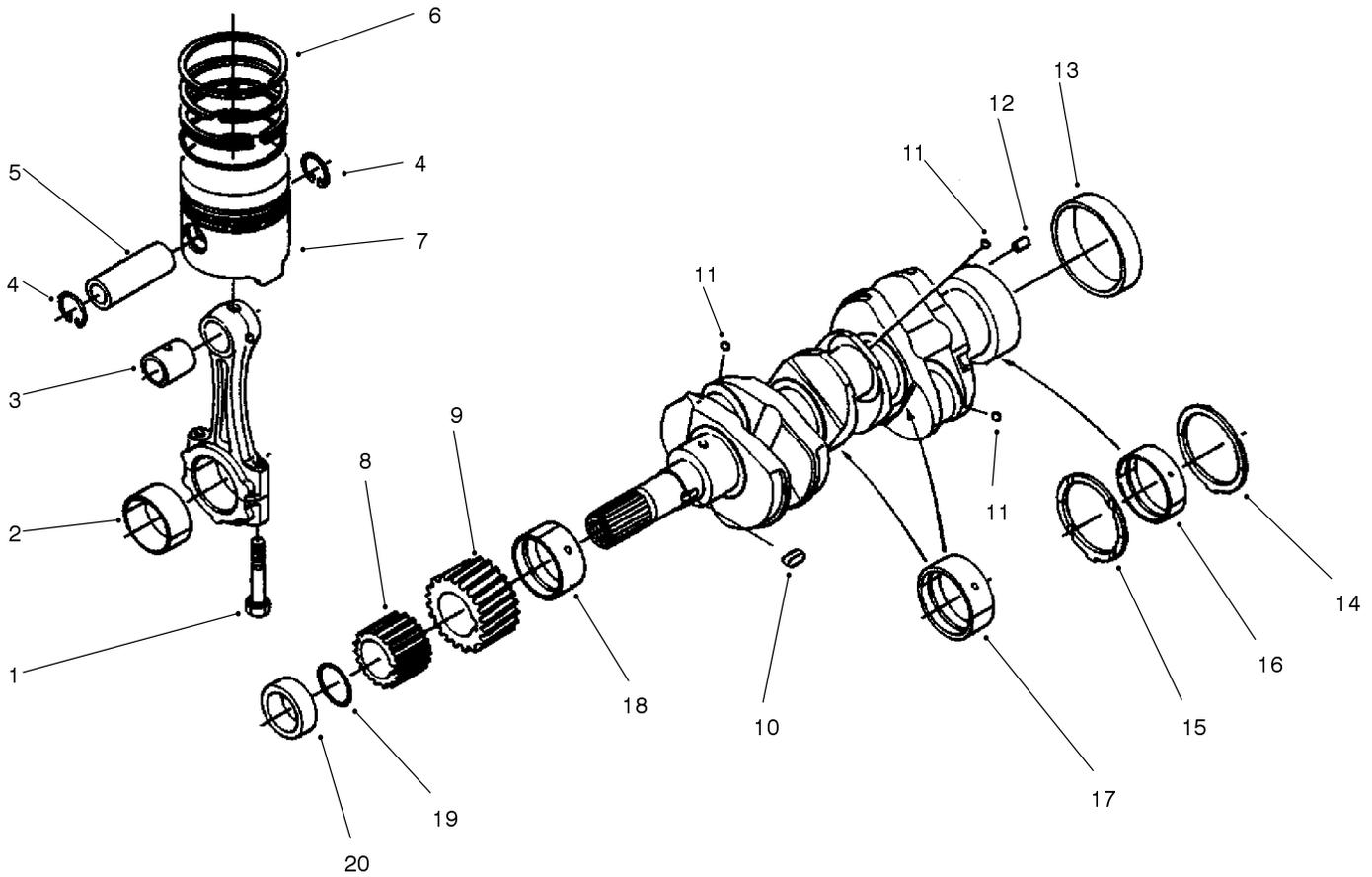
Camshaft Assembly

T-2913

Ref. No.	Part No.	Qty.	Description
1	98-9510	1	Stopper-Camshaft
3	98-9378	1	Key-Feather
4	98-9616	6	Tappet
5	98-9509	6	Push Rod
6	98-7449	1	Screw-Set
7	99-8362	1	Asm-Camshaft (Incl. Ref. #1-3, 6 & 15)
8	98-7692	3	Bolt
9	98-9533	1	Shaft-Gear, Idle
10	98-9535	1	Collar-Gear, Idle
11	98-9649	1	Asm-Gear, Idle (Incl. Ref. #12)
12	98-9650	1	Bushing-Gear, Idle
13	98-9536	1	Collar-Gear, Idle
14	98-9534	1	Clip-Circular, Idle Gear
15	98-9351	2	Bolt

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

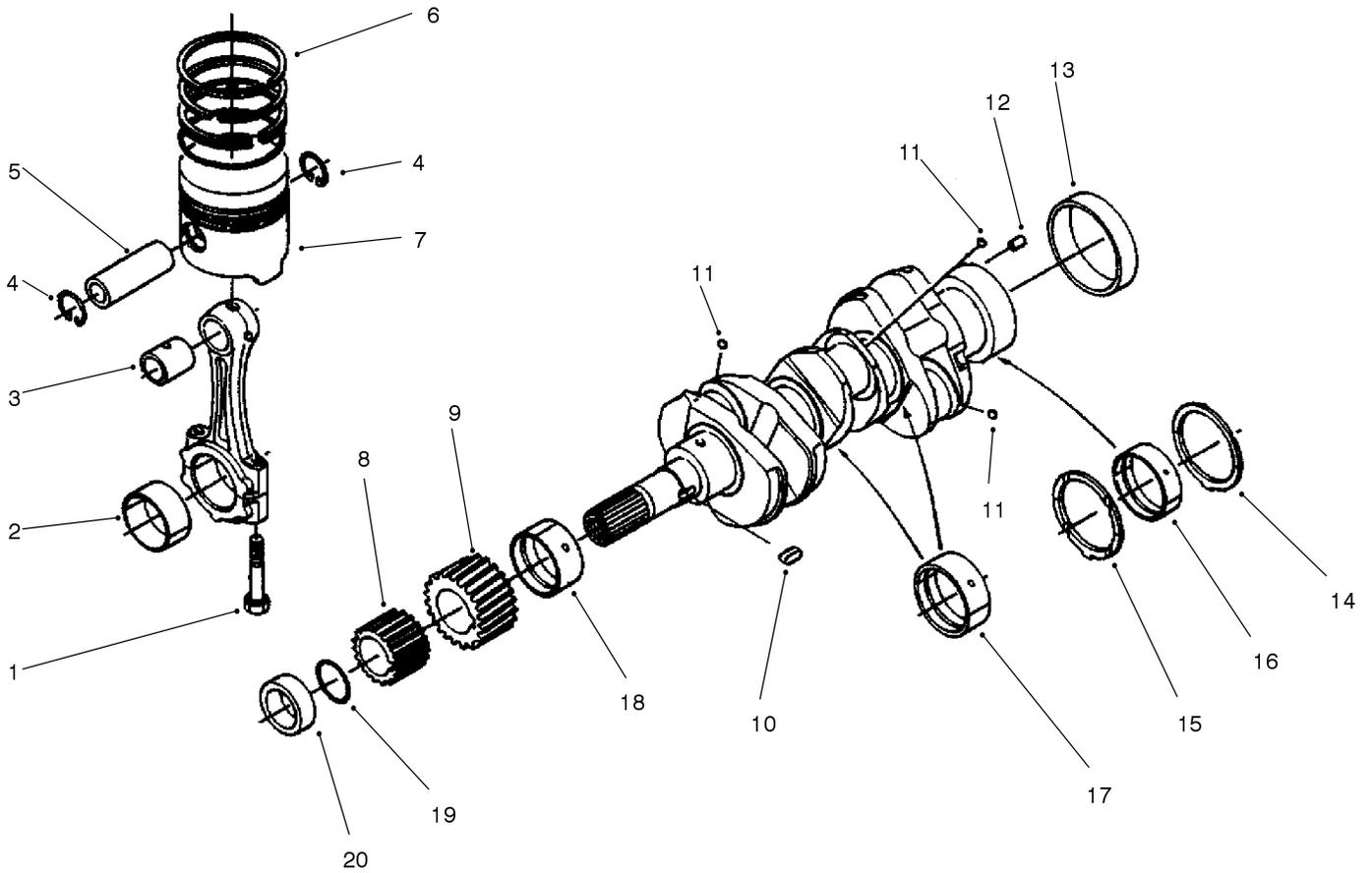


T-2914

Piston & Crankshaft Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9517	6	Bolt-Connecting Rod
2	98-9553	3	Metal-Crankpin (Std)
2	98-9519	3	Metal-Crankpin (0.2mm Undersize)
2	98-9520	3	Metal-Crankpin (0.4mm Undersize)
3	98-9515	3	Bushing-Piston Pin
4	98-9514	6	Clip-Circular, Piston Pin
5	98-9513	3	Pin-Piston
6	98-9551	3	Asm-Piston Ring (Std)
6	98-9619	3	Asm-Piston Ring (0.5mm Undersize)
7	98-9550	3	Piston (Std)
7	98-9470	3	Piston (0.5mm Undersize)
8	98-9542	1	Gear-Oil Pump Drive
9	98-9532	1	Gear-Crankshaft
10	98-9666	1	Key
11	98-7473	3	Ball
12	98-9375	1	Pin-Straight
13	98-9522	1	Sleeve-Crankshaft
14	98-9413	2	Metal-Side (Std)

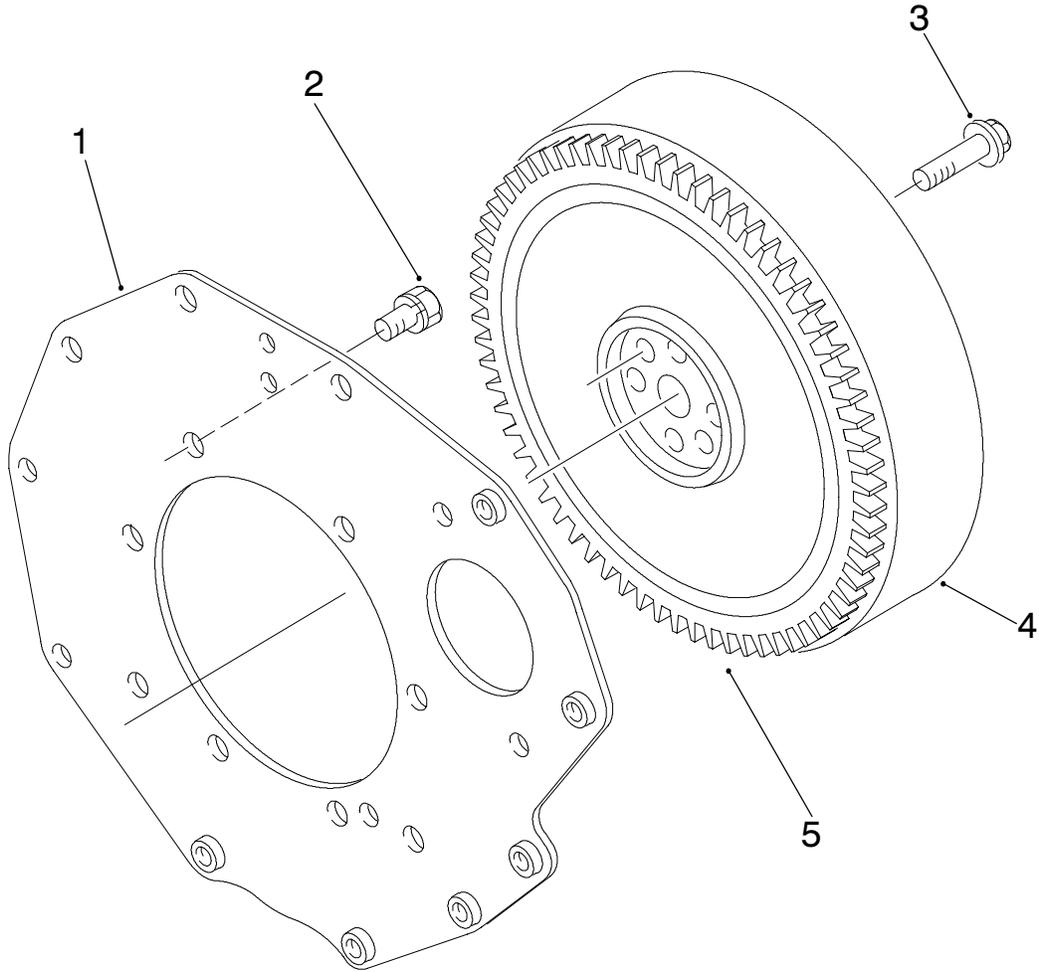
Ref. No.	Part No.	Qty.	Description
14	98-9414	2	Metal-Side (0.2mm Undersize)
14	98-9415	2	Metal-Side (0.4mm Undersize)
15	98-9688	2	Metal-Side (Std)
15	98-9689	2	Metal-Side (0.2mm Undersize)
15	98-9690	2	Metal-Side (0.4mm Undersize)
16	98-9556	1	Metal-Crankshaft (Std)
16	98-9526	1	Metal-Crankshaft (0.2mm Undersize)
16	98-9527	1	Metal-Crankshaft (0.4mm Undersize)
17	98-9555	2	Metal-Crankshaft (Std Set)
17	98-9530	2	Metal-Crankshaft (0.2mm Undersize Set)
17	98-9531	2	Metal-Crankshaft (0.4mm Undersize Set)
18	98-9554	1	Metal-Crankshaft (Std)



T-2914

Piston & Crankshaft Assembly (Continued)

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
18	98-9528	1	Metal-Crankshaft (0.2mm Undersize)				
18	98-9529	1	Metal-Crankshaft (0.4mm Undersize)				
19	98-9373	1	O-Ring				
20	98-9521	1	Collar-Crankshaft				
*	98-9552	3	Asm-Rod, Connecting (Incl. Ref. #1-3)				
*	98-9642	1	Asm-Crankshaft (Incl. Ref. #8-13)				



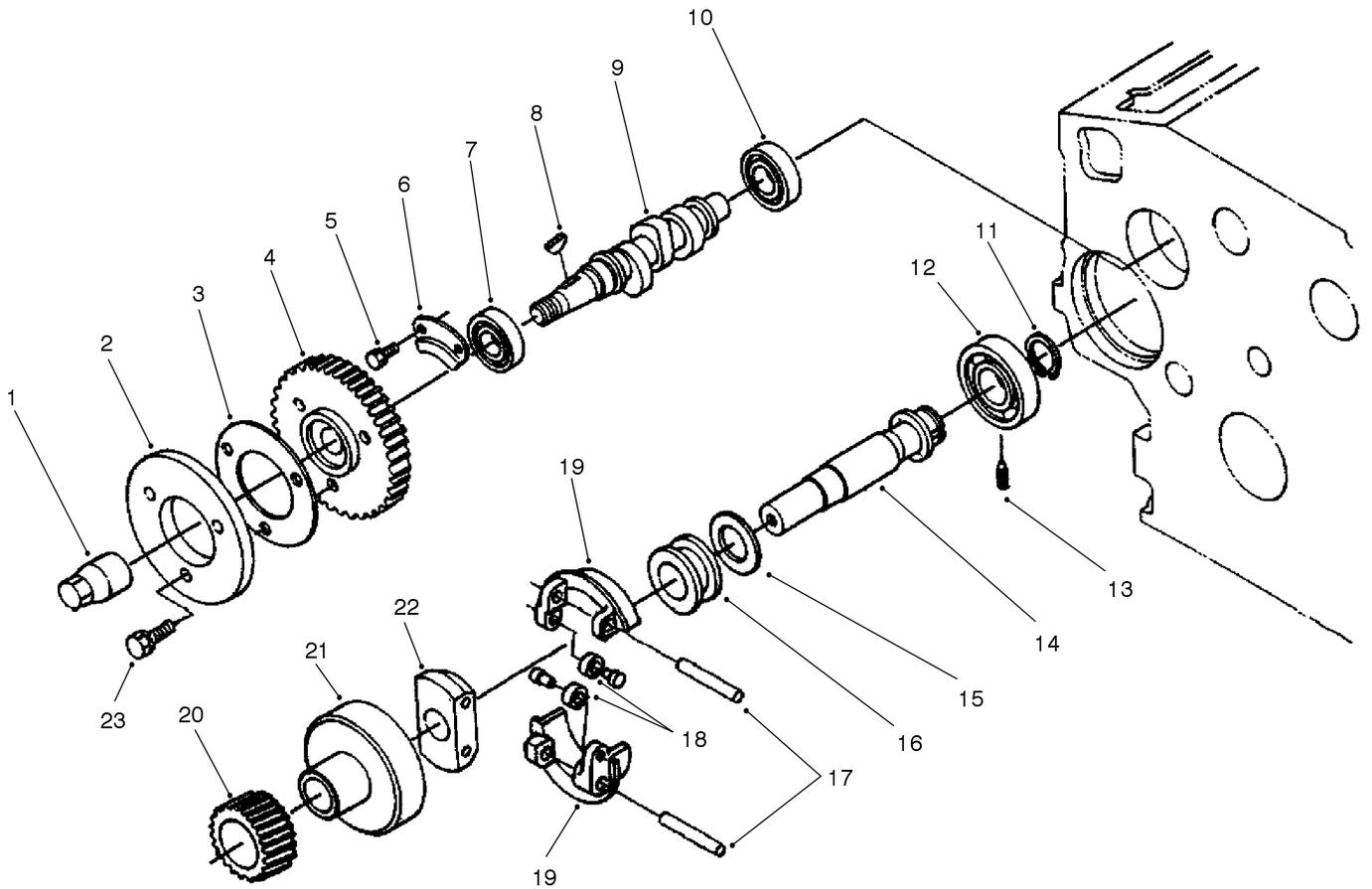
T-2915

Flywheel Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9486	1	Plate-End, Rear
2	98-9392	8	Bolt
3	98-9537	6	Bolt-Flywheel
4	98-9691	1	Asm-Flywheel (Incl. Ref. #5)
5	98-9394	1	Gear-Ring

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

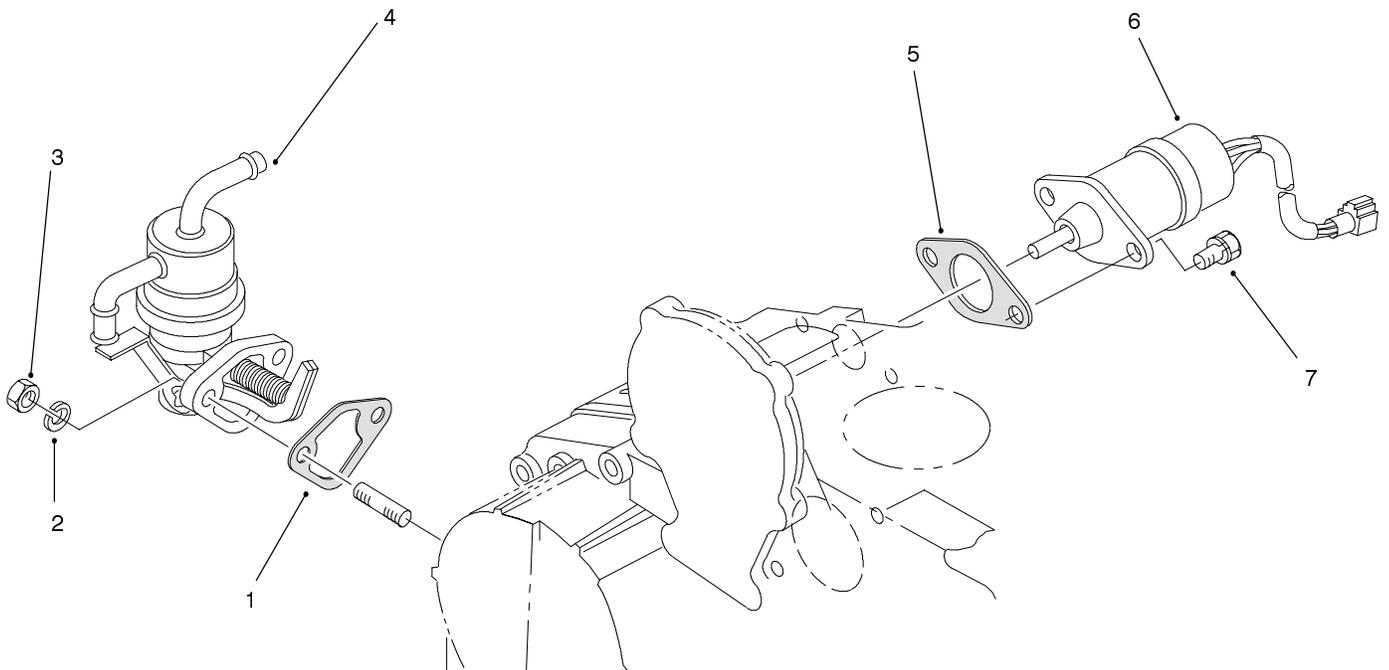


T-2916

Fuel Camshaft Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9590	1	Nut-Cap
2	98-9547	1	Cam-Fuel
3	98-9548	1	Washer
4	98-9669	1	Gear-Injection Pump
5	98-9350	2	Bolt
6	98-9511	1	Stopper-Fuel, Camshaft
7	98-9383	1	Bearing-Ball
8	98-9595	1	Key-Woodruff
9	98-9459	1	Camshaft-Fuel
10	98-9382	1	Bearing-Ball
11	98-9657	1	Clip-Circular, Gov. Shaft
12	98-9381	1	Bearing-Ball
13	98-9565	1	Screw-Set
14	98-9644	1	Asm-Shaft, Governor (Incl. Ref. #12 & 14-22)
15	98-9564	1	Washer-Thrust
16	98-9563	1	Sleeve-Governor
17	98-9560	2	Shaft-Governor Weight
18	98-9692	2	Roller
19	98-9559	2	Asm-Weight, Governor
20	98-9673	1	Gear-Governor
21	98-9562	1	Holder-Gear, Governor

Ref. No.	Part No.	Qty.	Description
22	98-9561	1	Holder-Gear, Governor
23	98-7605	3	Bolt

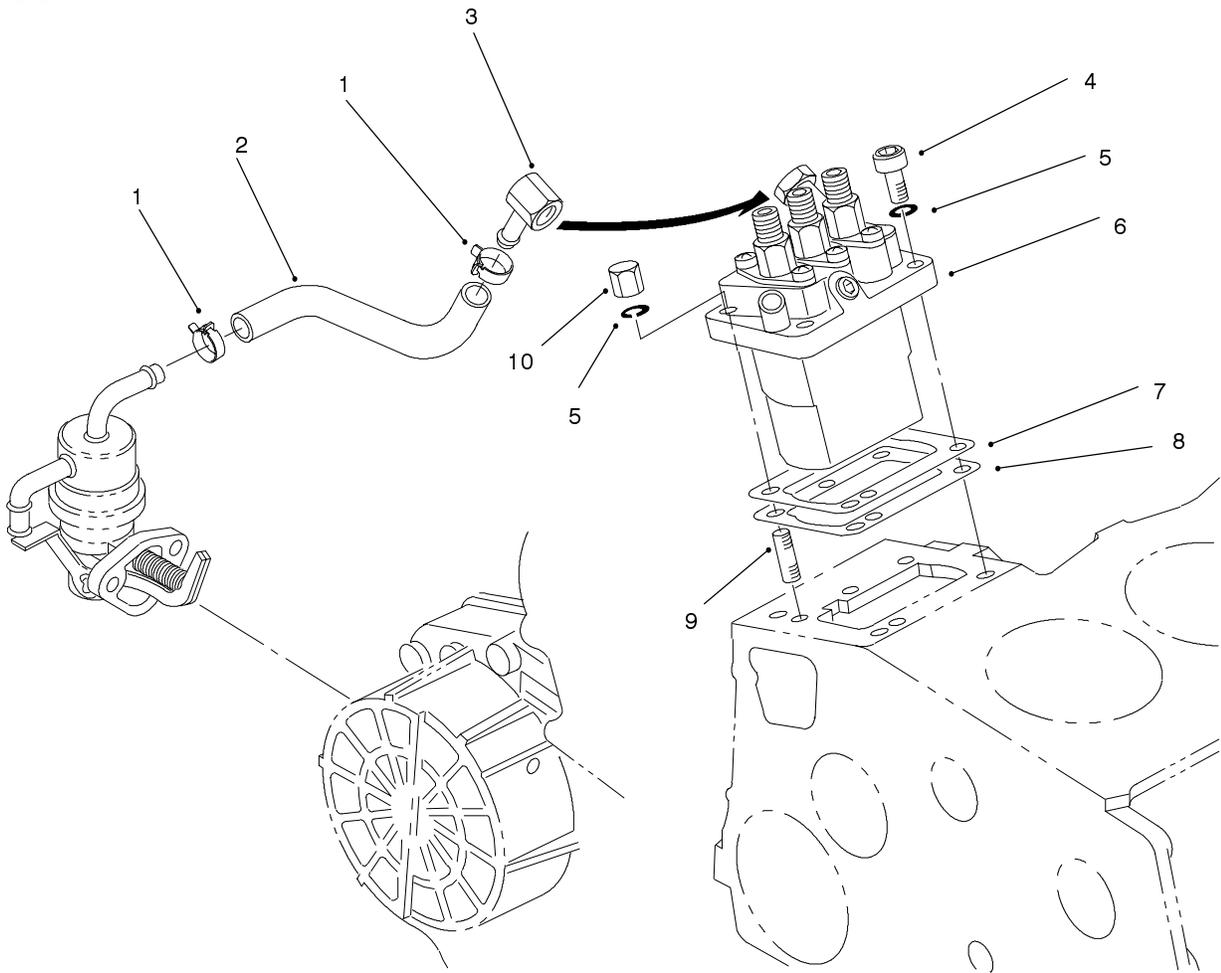


T-2918

Stop Solenoid & Fuel Pump Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9636	1	Gasket-Fuel Pump				
2	98-9367	2	Washer-Lock				
3	98-7572	2	Nut				
4	98-9677	1	Asm-Pump, Fuel				
5	98-9683	1	Gasket-Solenoid Cover				
6	98-9693	1	Solenoid-Stop				
7	98-9351	2	Bolt				

PROTOTYPE

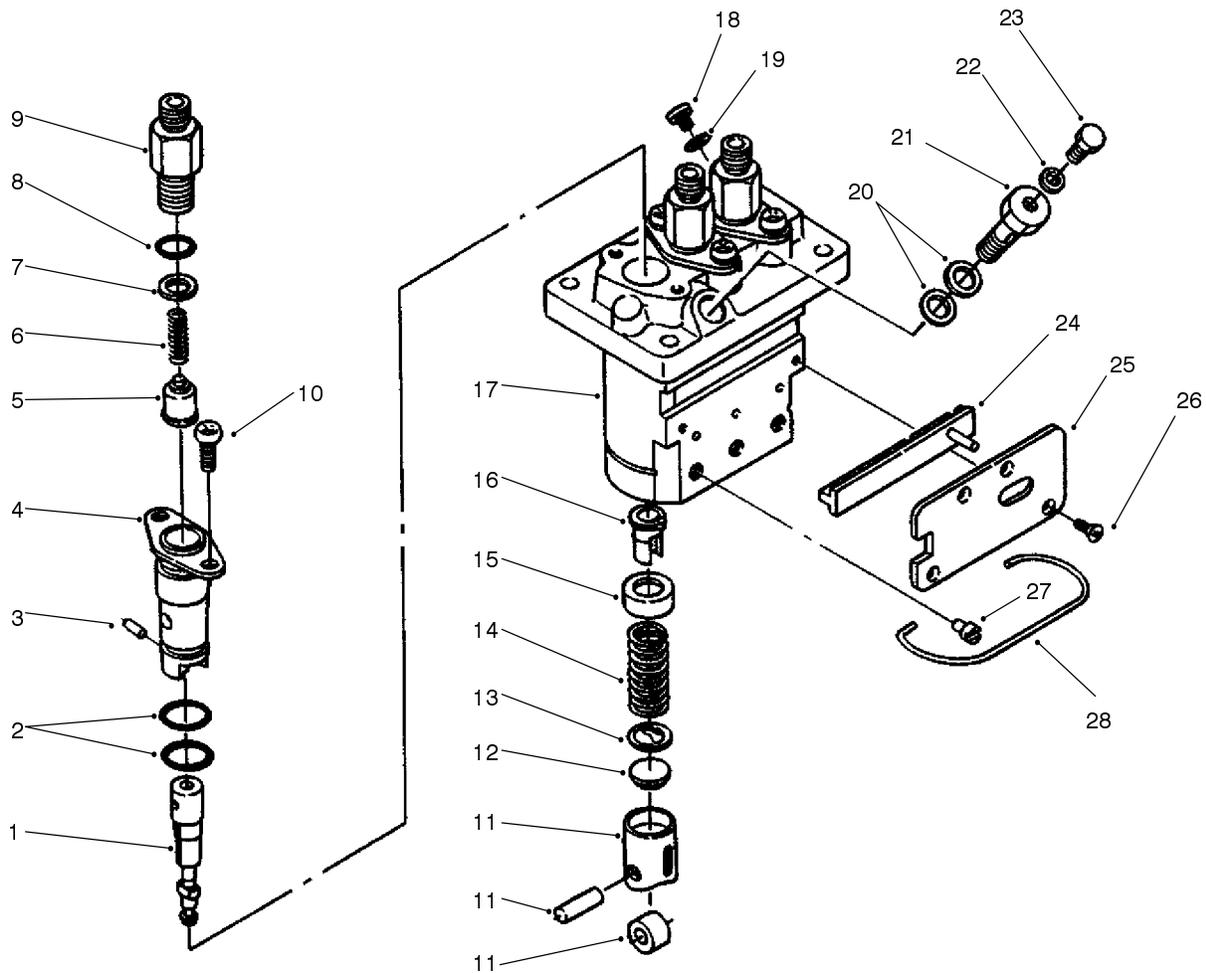


T-2919

Injection Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9545	2	Band-Pipe
2	98-9384	1	Tube-Fuel
3	98-9596	1	Joint-Eye
4	98-9361	2	Bolt
5	98-9367	4	Washer-Lock
6	98-9643	1	Asm-Pump, Injection
7	98-9456	1	Shim-Injection (0.2mm)
7	98-9457	1	Shim-Injection (0.25mm)
8	98-9458	1	Shim-Injection (0.30mm)
9	98-9438	2	Stud
10	98-9440	2	Nut-Cap
*	98-9467	1	Asm-Pipe, Fuel (Incl. Ref. #1 & 2)

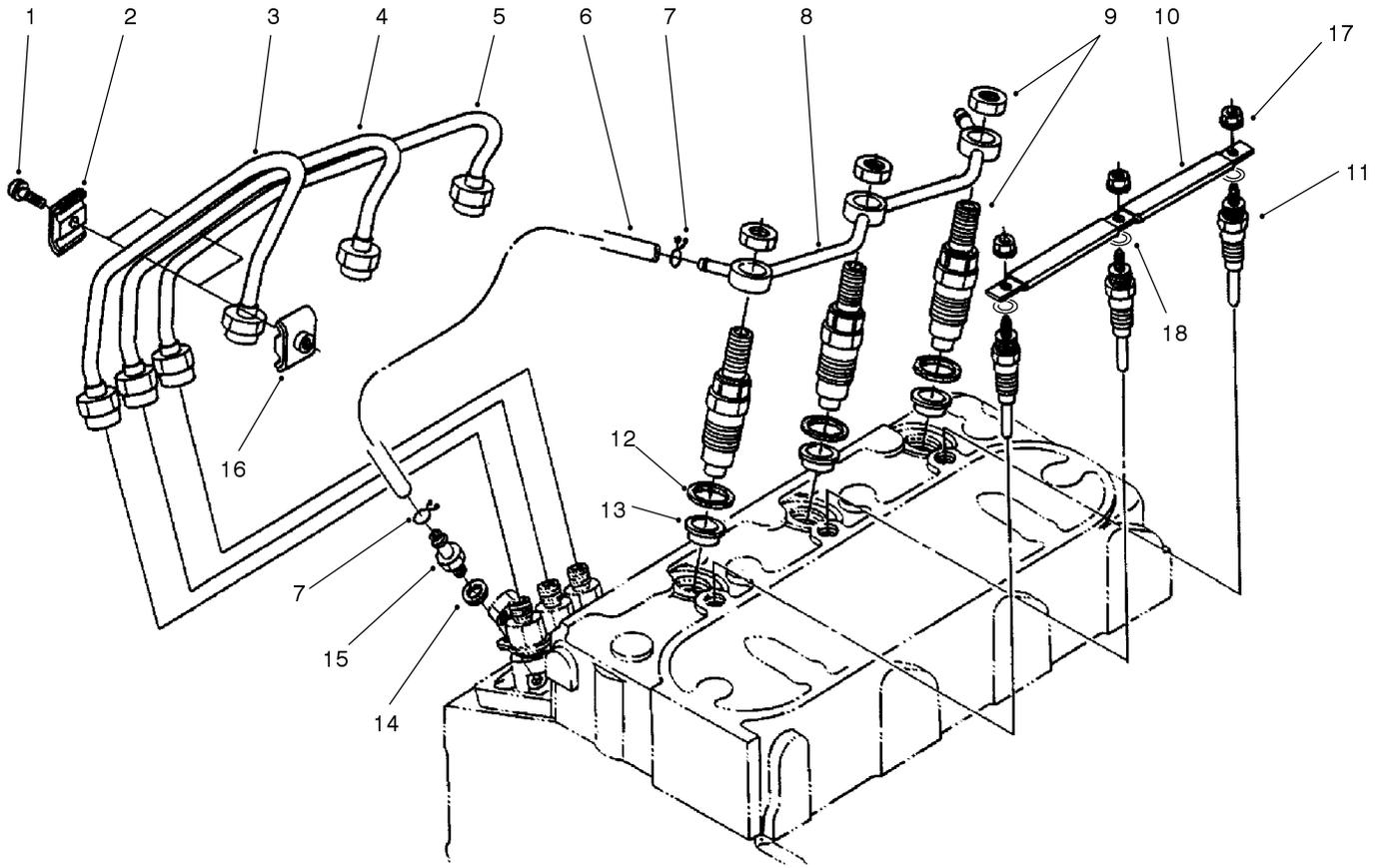
Ref. No.	Part No.	Qty.	Description



T-2920

Injection Pump Assembly No. 98-9643

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-9462	3	Element-Pump	25	98-9465	1	Plate
2	98-9423	6	O-Ring	26	98-9442	4	Screw-Countersunk Hd.
3	98-9443	3	Pin-Joint	27	98-9426	3	Pin-Guide, Tappet
4	98-9434	3	Flange-Sleeve	28	98-9450	1	Pin-Clamp
5	98-9421	3	Valve-Delivery				
6	98-9424	3	Spring-Valve, Delivery				
7	98-9425	3	Gasket-Valve, Delivery				
8	98-9447	3	O-Ring				
9	98-9652	3	Holder-Valve, Delivery				
10	98-9452	6	Screw				
11	98-9422	3	Asm-Tappet				
12	98-9433	3	Shim				
13	98-9429	3	Seat-Spring, Lower				
14	98-9428	3	Spring-Plunger				
15	98-9427	3	Seat-Spring, Upper				
16	98-9432	3	Sleeve-Control				
17	98-9643	1	Asm-Pump, Injection (Incl. Ref. #1-16 & 18-28)				
18	98-9466	1	Plug				
19	98-9451	1	Gasket				
20	98-9445	2	Gasket				
21	98-9464	1	Bolt-Joint				
22	98-9446	1	Gasket				
23	98-9430	1	Screw				
24	98-9463	1	Rack-Control				

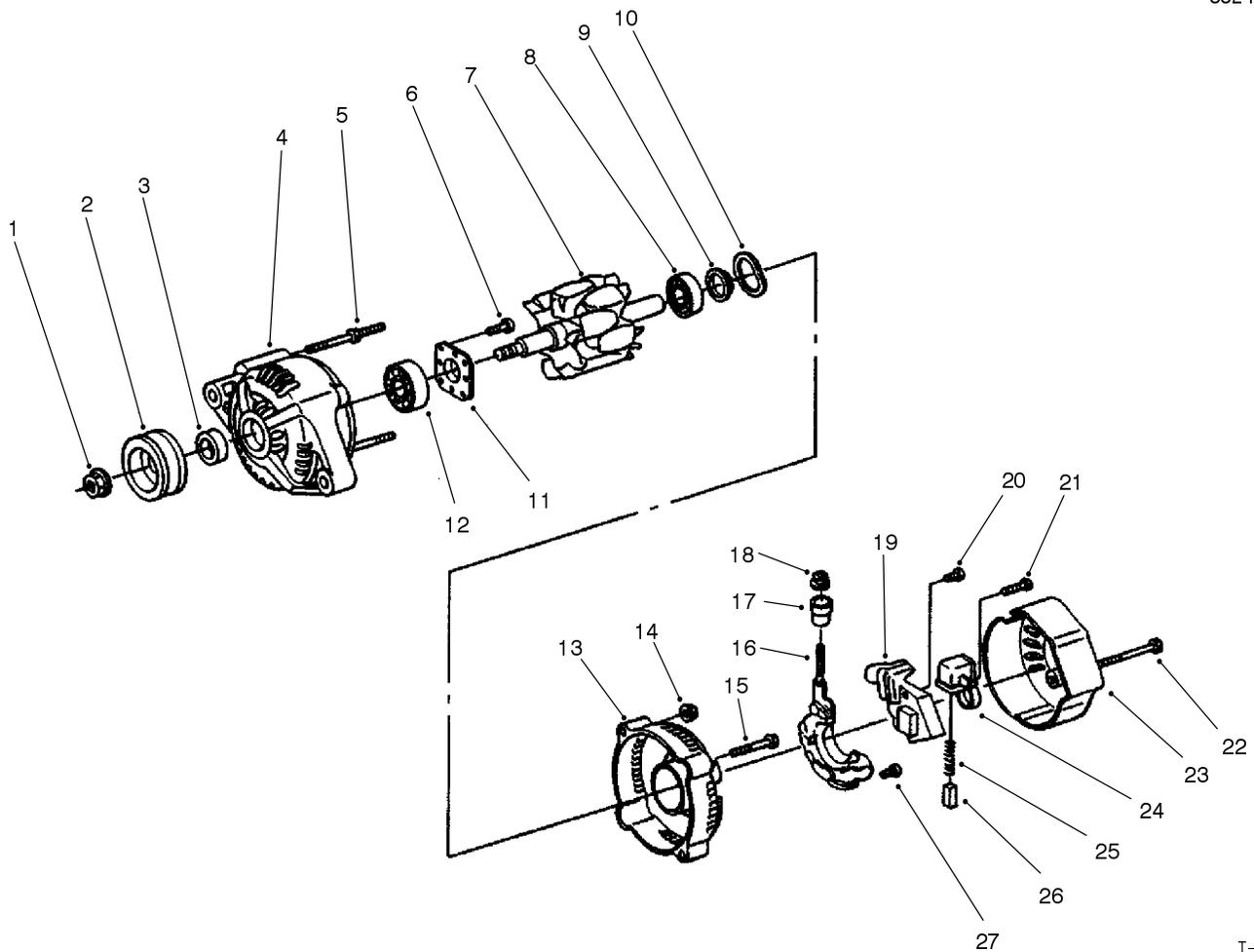


T-2923

Nozzle Holder & Glow Plug Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	98-7684	2	Screw w/washer				
2	98-7683	2	Clamp-Pipe				
3	98-9622	1	Pipe-Injection				
4	98-9654	1	Pipe-Injection				
5	98-9655	1	Pipe-Injection				
6	98-9624	1	Asm-Pipe, Overflow (Incl. Ref. #7)				
7	98-7671	2	Clip-Pipe				
8	98-9621	1	Asm-Pipe, Overflow				
9	98-9468	3	Asm-Holder, Nozzle				
10	98-9631	1	Cord-Glow Plug				
11	98-9623	3	Plug-Glow				
12	98-7676	3	Gasket				
13	98-7677	3	Seat-Heat				
14	98-7654	1	Gasket				
15	98-9431	1	Screw-Air Bleed				
16	98-7682	2	Clamp-Pipe				
17	99-8377	3	Nut-Flange				
18	99-8378	3	Washer-Plain				

PROTOTYPE



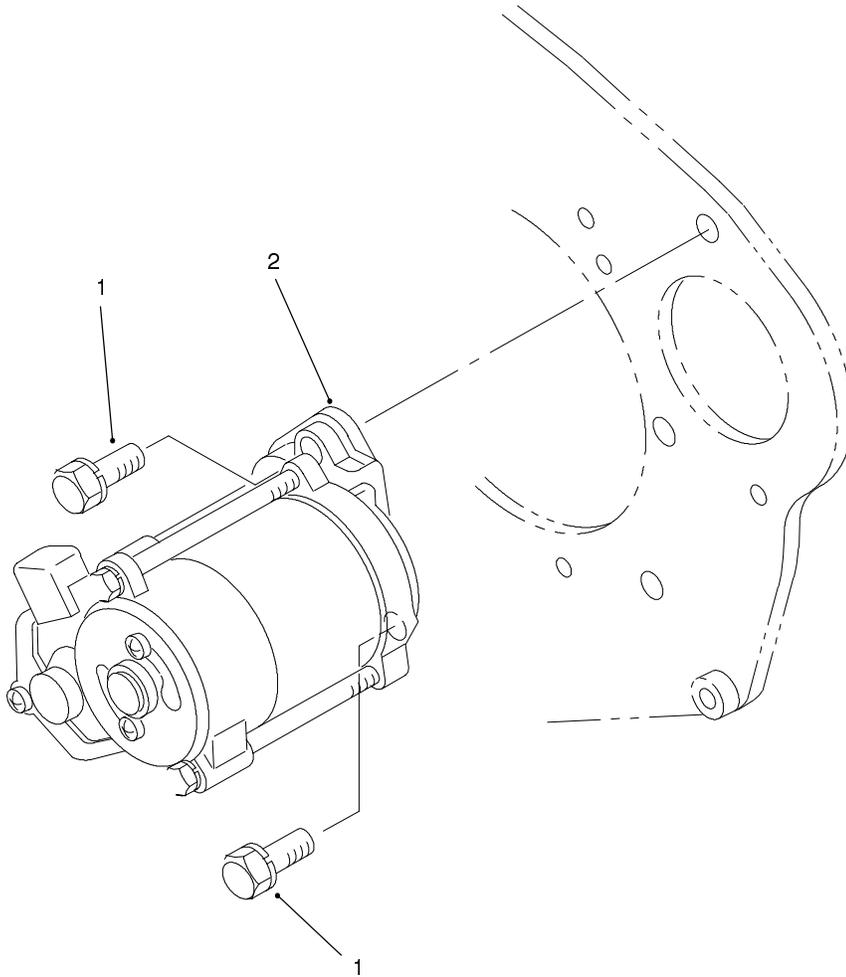
T-2927

Alternator Assembly

Ref. No.	Part No.	Qty.	Description
1	98-7708	1	Nut
2	98-9453	1	Pulley-Dynamo
3	98-7709	1	Collar
4	98-7714	1	Frame-Drive End
5	98-7717	2	Bolt-Through
6	98-7716	4	Screw-RH
7	98-7710	1	Rotor
8	98-7712	1	Bearing-Ball
9	98-7711	1	Cover-Bearing
10	98-7713	1	Washer-Thrust
11	98-7715	1	Plate-Retainer
12	98-7718	1	Bearing-Ball
13	98-7719	1	Frame-End
14	98-7730	2	Nut
15	98-7731	2	Bolt
16	98-7721	1	Asm-Rectifier
17	98-7722	1	Bushing-Insulation
18	98-7732	1	Nut
19	98-7733	1	Asm-Regulator
20	98-7726	2	Screw-RH
21	98-7728	1	Screw-RH
22	98-7729	3	Bolt
23	98-7720	1	Cover-End
24	98-7723	1	Holder-Brush
25	98-7725	2	Spring-Brush
26	98-7724	2	Brush

Ref. No.	Part No.	Qty.	Description
27	98-7727	6	Screw-RH
*	98-9474	1	Asm-Alternator (Incl. Ref. #1-27)

PROTOTYPE

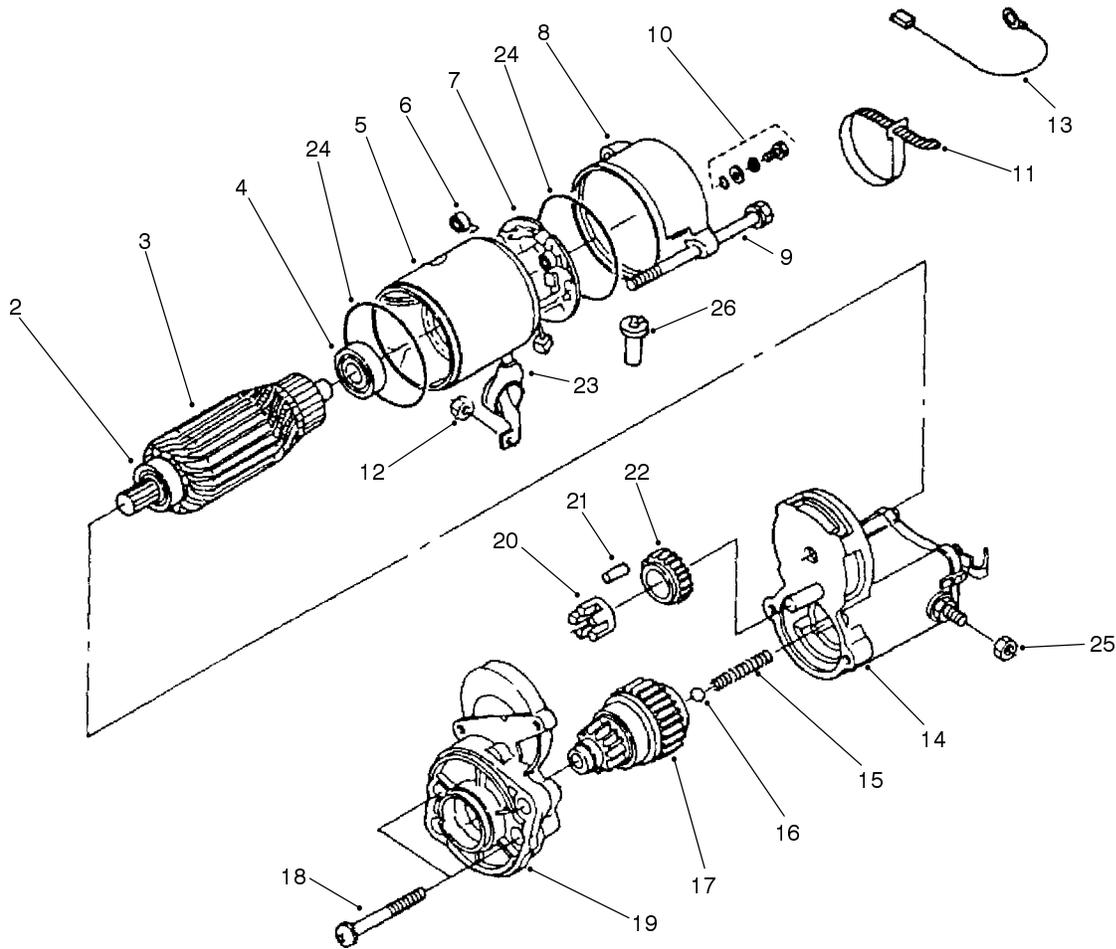


T-2928

Starter Mount Assembly

Ref. No.	Part No.	Qty.	Description
1	98-7697	2	Bolt
2	98-9705	1	Asm-Starter

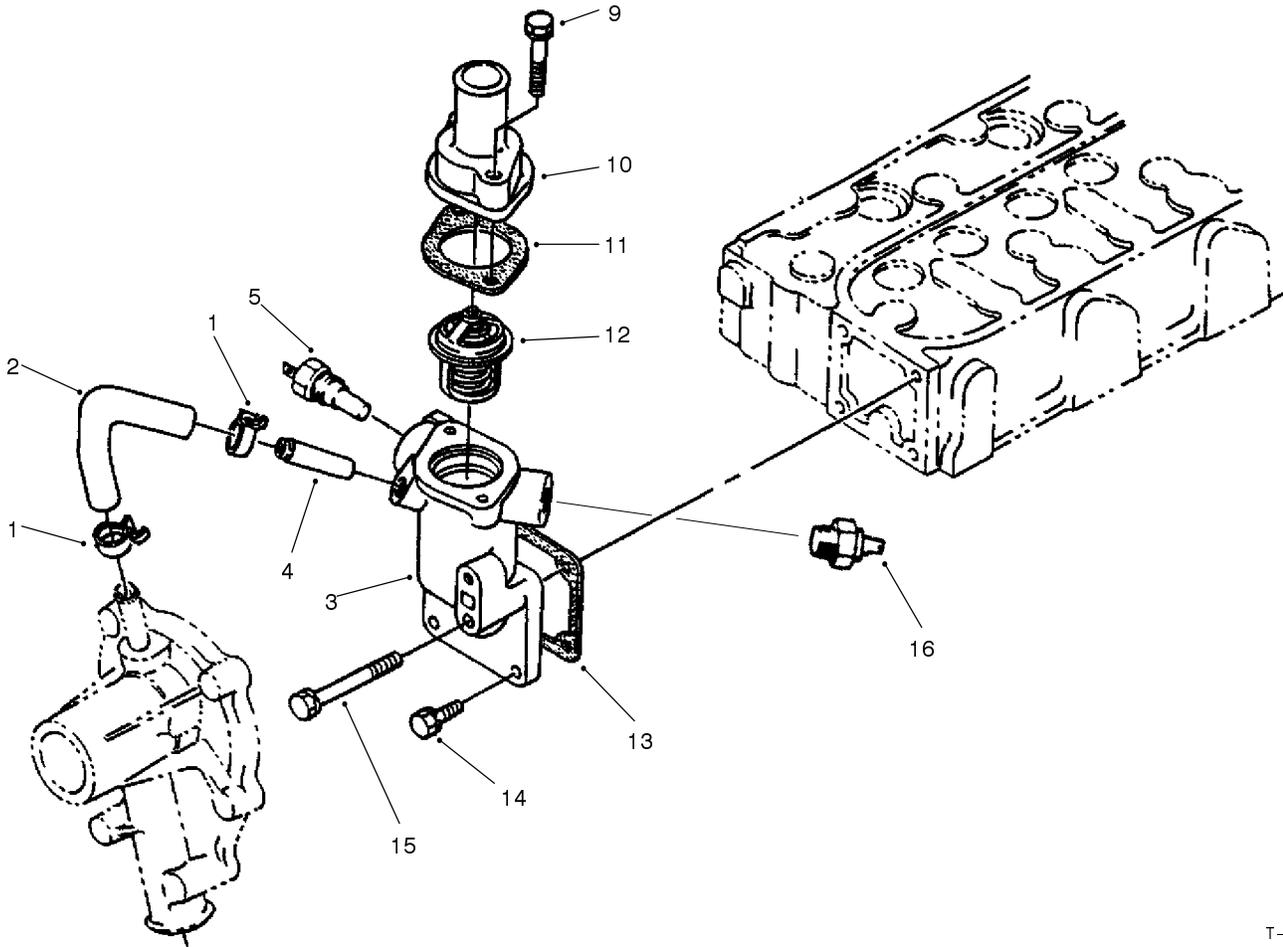
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T-3081

Starter Assembly No. 98-9705

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
2	98-7743	1	Bearing-Ball	26	98-7759	1	Pipe-Drain
3	98-7742	1	Asm-Armature	*	98-9705	1	Asm-Starter
4	98-7744	1	Bearing-Ball			1	(Incl. Ref. #2-26)
5	98-7741	1	Asm-Yoke				
6	98-7750	4	Spring-Brush				
7	98-7749	1	Asm-Holder, Brush				
8	99-8370	1	(Incl. Ref. #6)				
9	98-9549	2	Frame-End				
10	98-7758	2	Bolt				
11	98-9712	1	Asm-Bolt				
12	99-8371	1	Band-Cover				
13	98-9711	1	Nut-Hex.				
14	99-8372	1	Cord-Stop, Solenoid				
15	98-7754	1	Asm-Switch, Magnetic				
16	98-7755	1	Spring				
17	99-8373	1	Ball				
18	98-7756	2	Clutch				
19	99-8374	1	Bolt				
20	98-7752	1	Frame-Drive End				
21	98-7753	5	Retainer				
22	98-7751	1	Roller				
23	99-8375	1	Gear				
24	98-7757	2	Cover-Cord				
25	99-8376	1	O-Ring				
			Nut				



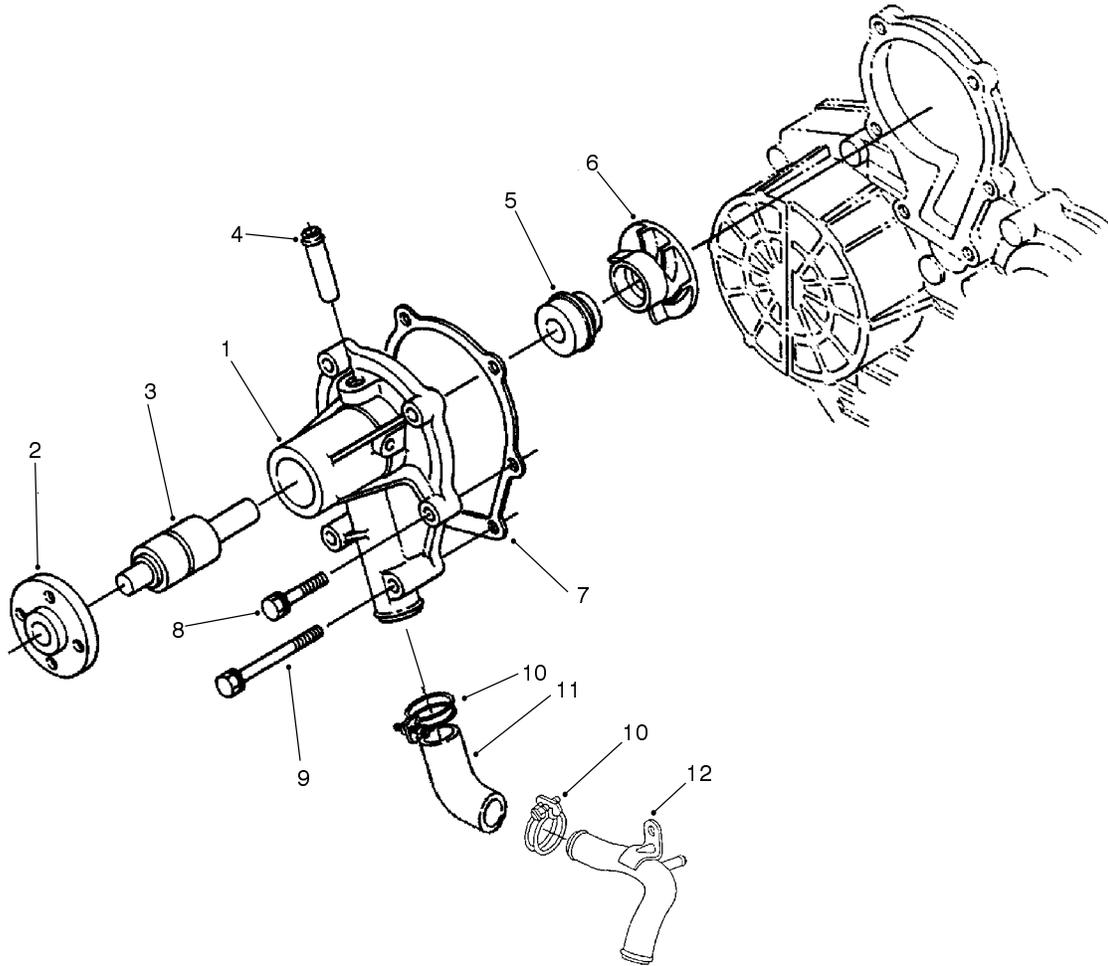
T-2930

Water Flange & Thermostat Asembly

Ref. No.	Part No.	Qty.	Description
1	98-9579	2	Band Pipe
2	98-9578	1	Pipe-Return, Water
3	98-9713	1	Asm-Flange, Water (Incl. Ref. #4)
4	98-9580	1	Pipe-Return, Water
5	98-9719	1	Thermoswitch
9	98-7777	2	Bolt
10	98-9471	1	Cover-Thermostat
11	98-7776	1	Gasket
12	98-7778	1	Asm-Thermostat
13	98-9638	1	Gasket-Flange, Water
14	98-7692	3	Bolt
15	98-9356	1	Bolt
16	98-9346	1	Switch

Ref. No.	Part No.	Qty.	Description

PROTOTYPE



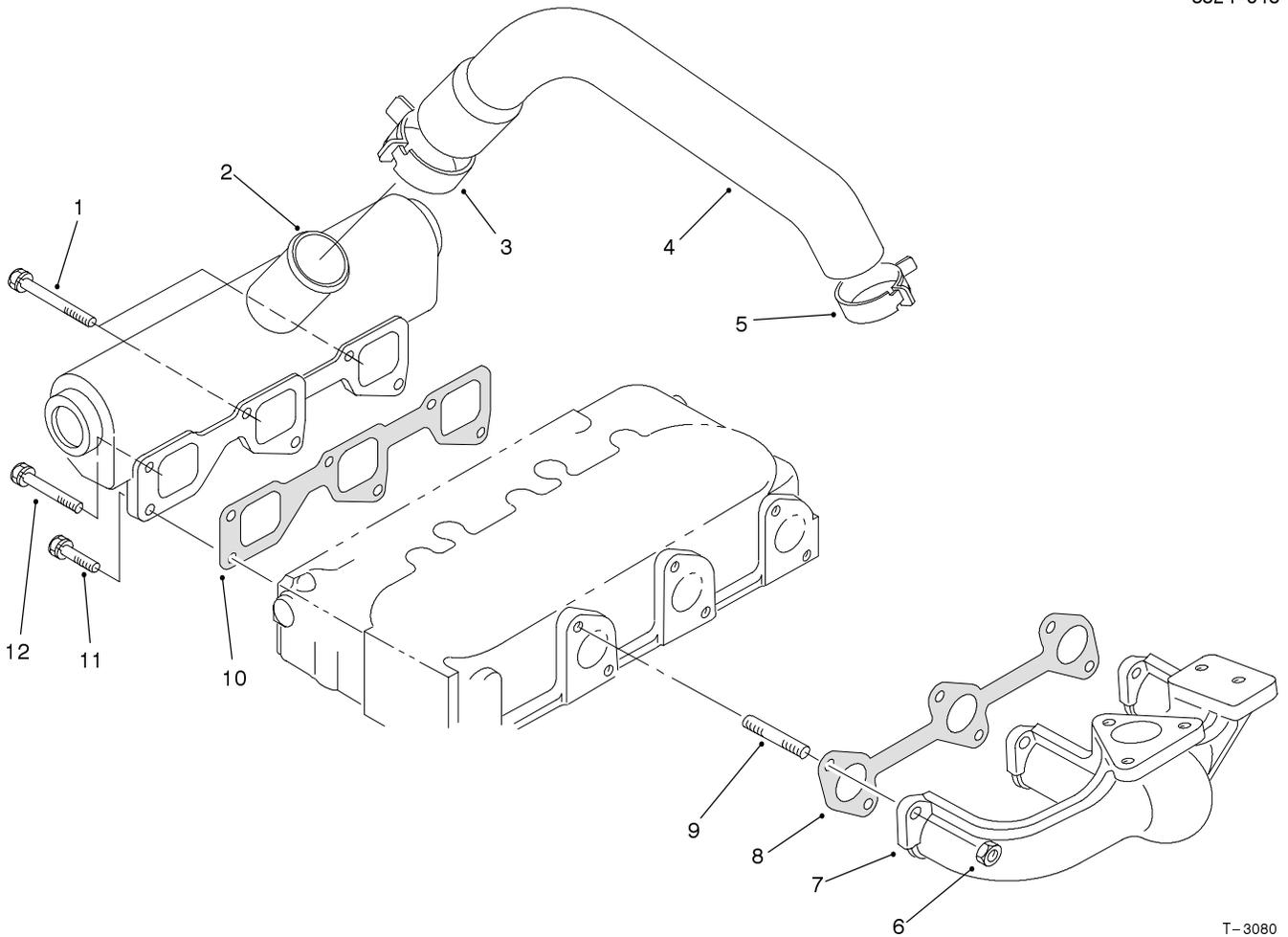
T-2931

Water Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	98-9575	1	Asm-Pump, Water (Incl. Ref. #2-6)
2	98-9582	1	Flange-Pump, Water
3	98-9583	1	Bearing
4	98-9577	1	Pipe-Return, Water
5	98-9576	1	Asm-Seal
6	98-9581	1	Impeller-Water
7	98-9632	1	Gasket-Pump, Water
8	98-9353	1	Bolt
9	98-9357	4	Bolt
10	98-9717	2	Clamp
11	98-9574	1	Pipe-Water
12	99-8379	1	Pipe-Water

Ref. No.	Part No.	Qty.	Description

PROTOTYPE

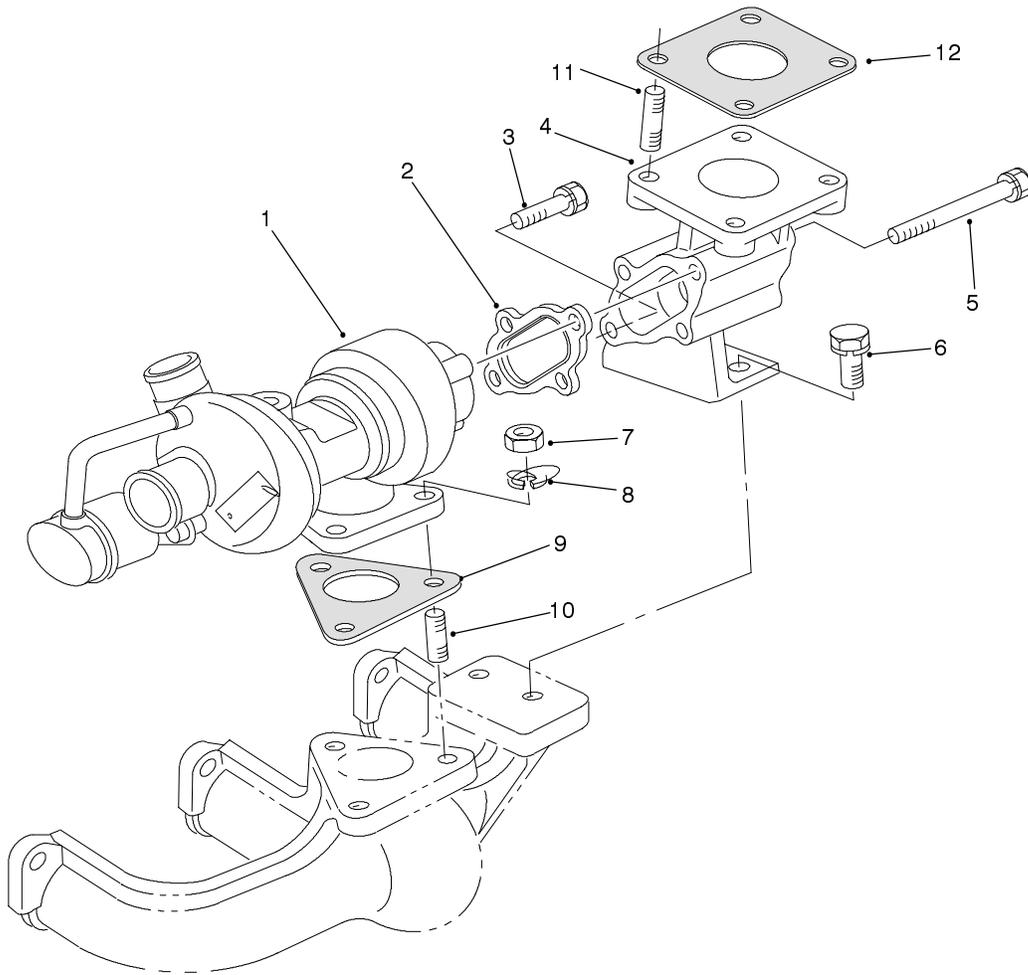


T-3080

Exhaust Manifold & Gasket Assembly

Ref. No.	Part No.	Qty.	Description
1	99-8320	2	Bolt
2	99-8321	1	Manifold-Inlet
3	99-8322	1	Band-Pipe
4	99-8323	1	Hose-Inlet
5	99-8324	1	Band-Pipe
6	98-9665	6	Nut
7	99-8326	1	Manifold-Exhaust
8	99-8327	1	Gasket-Exhaust
9	98-9588	6	Stud
10	99-8329	1	Gasket-Intake
11	98-7568	3	Bolt
12	98-7496	1	Bolt

Ref. No.	Part No.	Qty.	Description
PROTOTYPE			



T-3078

Turbo Charger Assembly

Ref. No.	Part No.	Qty.	Description	Ref. No.	Part No.	Qty.	Description
1	99-8332	1	Asm-Charger, Turbo				
2	99-8333	1	Gasket				
3	99-8334	1	Bolt				
4	99-8335	1	Flange-Muffler				
5	99-8336	3	Bolt				
6	98-7610	2	Bolt				
7	98-7534	3	Nut				
8	99-8339	3	Washer-Lock				
9	99-8340	1	Gasket				
10	99-8341	3	Stud				
11	99-8342	4	Stud				
12	99-8343	1	Gasket-Muffler				

PROTOTYPE



PROTOTYPE