Form No. 3361-754 Rev B

TORO®

Count on it.

Parts Catalog

Z590-D Z Master®

With 60in TURBO FORCE® Side Discharge Mower

Model No. 74268—Serial No. 290000001 and Up

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 illustration and in parts 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.

List of Abbreviations

AR: as required

ASM: assembly

BBC: blade brake control

BHTF: button head thread forming

CARR: carriage

CCW: counter clockwise

CW: clockwise

DEG: degrees

DPA: Dual Point Adjustment

ECM: electronic control module

EXT: external

FH: flat head

GA: gauge

HD: heavy-duty

HF: hex flange

HH: hex head

HHF: hex head flange

HHFTF: hex head flange thread forming

HJ: hex jam

HLH: hex lag head

HOC: height-of-cut

HSBH: hex socket button head

HSFH: hex socket flat head

HSH: hex socket head

HWH: hex washer head

HWHTF: hex washer head thread forming

HYD: hydraulic

LH: left hand

LP: Liquid Propane

NI: nylon insert

NPTF: national pipe thread fine

PFH: phillips flat head

PPH: phillips pan head

PPHTF: phillips pan head thread forming

PRH: phillips round head

PTH: phillips truss head

PTO: power-take-off

RH: right hand

ROPS: roll-over protection system

RRB: rear roller brush

SFH: slotted fillister head

SHH: slotted hex head

SHWH: slotted hex washer head

SPH: slotted pan head

SQH: square head

SRH: slotted round head

STD: standard

TAP: self tapping

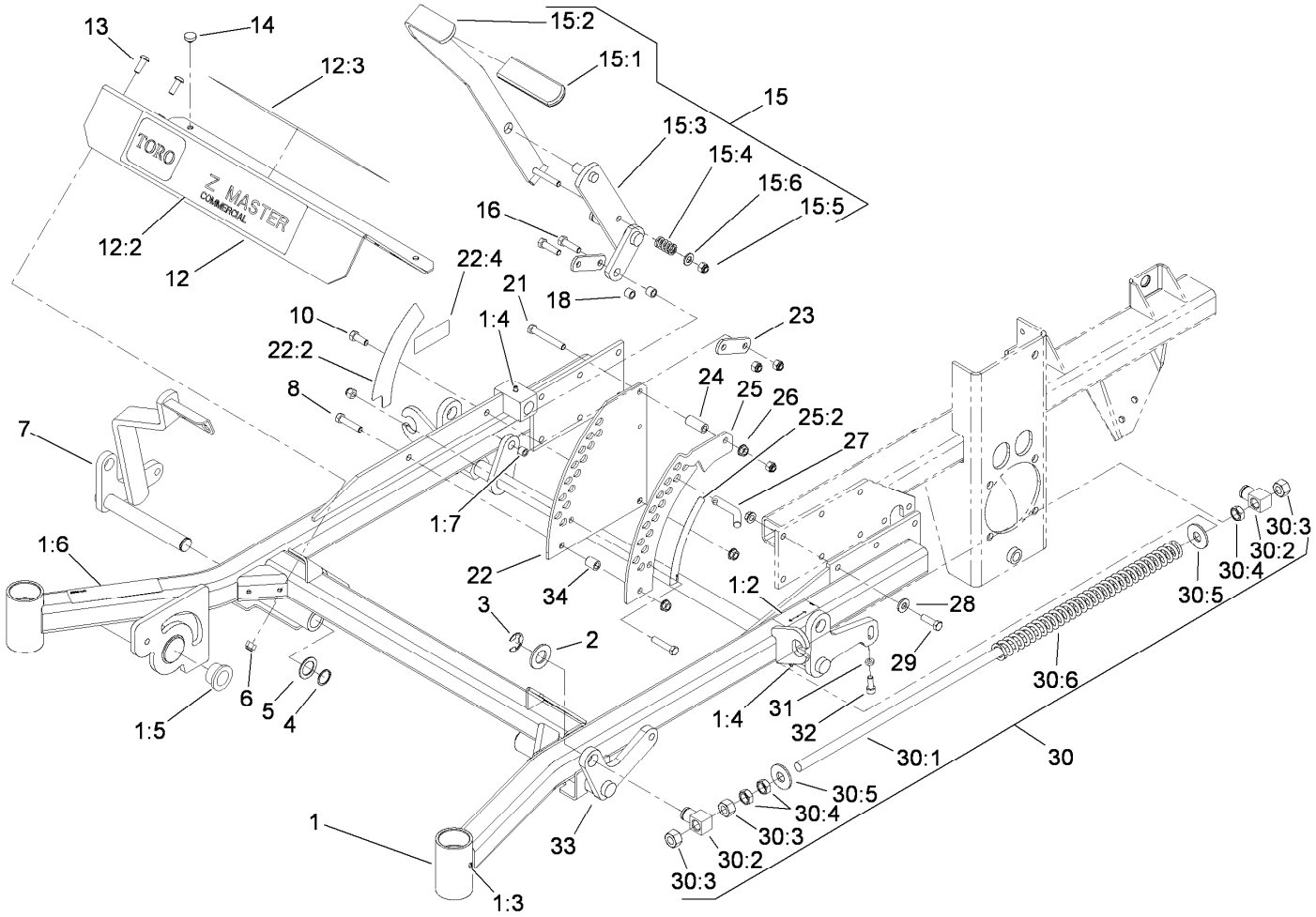
TTH: torx truss head

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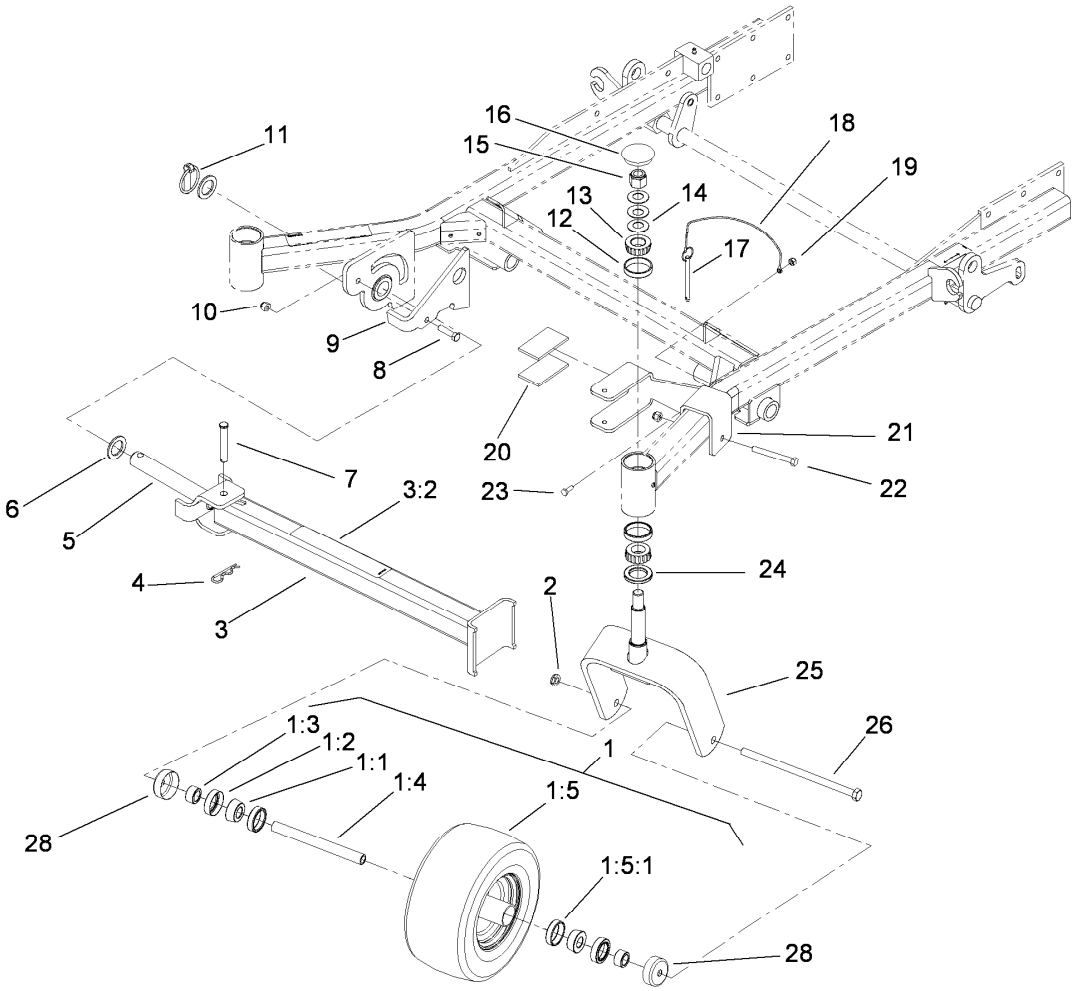


Front Frame Assembly

Ref.	Part Number	Qty.	Description
1	106-8998	1	Frame ASM
1:2	107-1857	1	Decal-Brake, Parking
1:3	1-811010	2	Plug
1:4	302-19	5	Fitting-Grease
1:5	94-1291	2	Bushing
1:6	104-7759	1	Decal-Warning
1:7	103-1918	1	Bushing
2	3256-29	4	Washer-Flat
3	32151-103	5	Ring-Retaining, EXT
4	32151-29	2	Ring-Retaining
5	1-523157	2	Washer-Spacer
6	3296-39	8	Nut-Lock, NI
7	108-7786-01	1	RH Front Deck Lift ASM
8	323-9	2	Screw-HH
10	323-6	1	Screw-HH
12	106-9981	1	Footrest
12:2	106-7451	1	Decal
12:3	107-2112	1	Decal-Warning
13	3274-94	4	Screw-HSBH
14	1-513658	2	Bumper
15	110-5860	1	Deck Lift Handle ASM
15:1	1-633295	1	Grip-Lever, Lift
15:2	103-2083	1	Lever-Lift
15:3	103-2064	1	Arm-Lift, Deck
15:4	1-633325	1	Spring-Compression
15:5	3296-39	1	Nut-Lock, NI

Ref.	Part Number	Qty.	Description
15:6	3256-24	1	Washer-Flat
16	323-29	2	Screw-HH
18	103-1918	2	Bushing
21	323-11	1	Screw-HH
22	117-0366	1	Plate-HOC, Outer
22:2	107-1860	1	Decal-Height, Deck
22:4	117-2718	1	Decal-Arrester, Spark
23	1-633068	2	Arm-Lift, Deck
24	1-633082	1	Bushing-Lever, Lift
25	117-0369	1	Plate-HOC, Inner
25:2	107-1861	1	Decal-Height, Deck
26	3290-357	15	Nut-HHF, Whiz
27	109-8757	1	Pin-HOC
28	98-5975	12	Washer-Belleville
29	323-7	12	Screw-HH
30		2	Front Frame Spring ASM ●
30:1	1-633096	1	Rod-Lift, Deck
30:2	1-633441	2	Swivel-Deck Mount, Rear
30:3	3217-11	3	Nut-Hex
30:4	3218-6	3	Nut-Jam
30:5	3256-7	2	Washer-Flat
30:6	1-643015	1	Spring-Support, Deck
31	3218-2	2	Nut-Jam
32	3274-18	2	Screw-HSH
33	106-8984-01	1	LH Deck Lift ASM
34	1-633080	1	Bushing-Lever, Lift

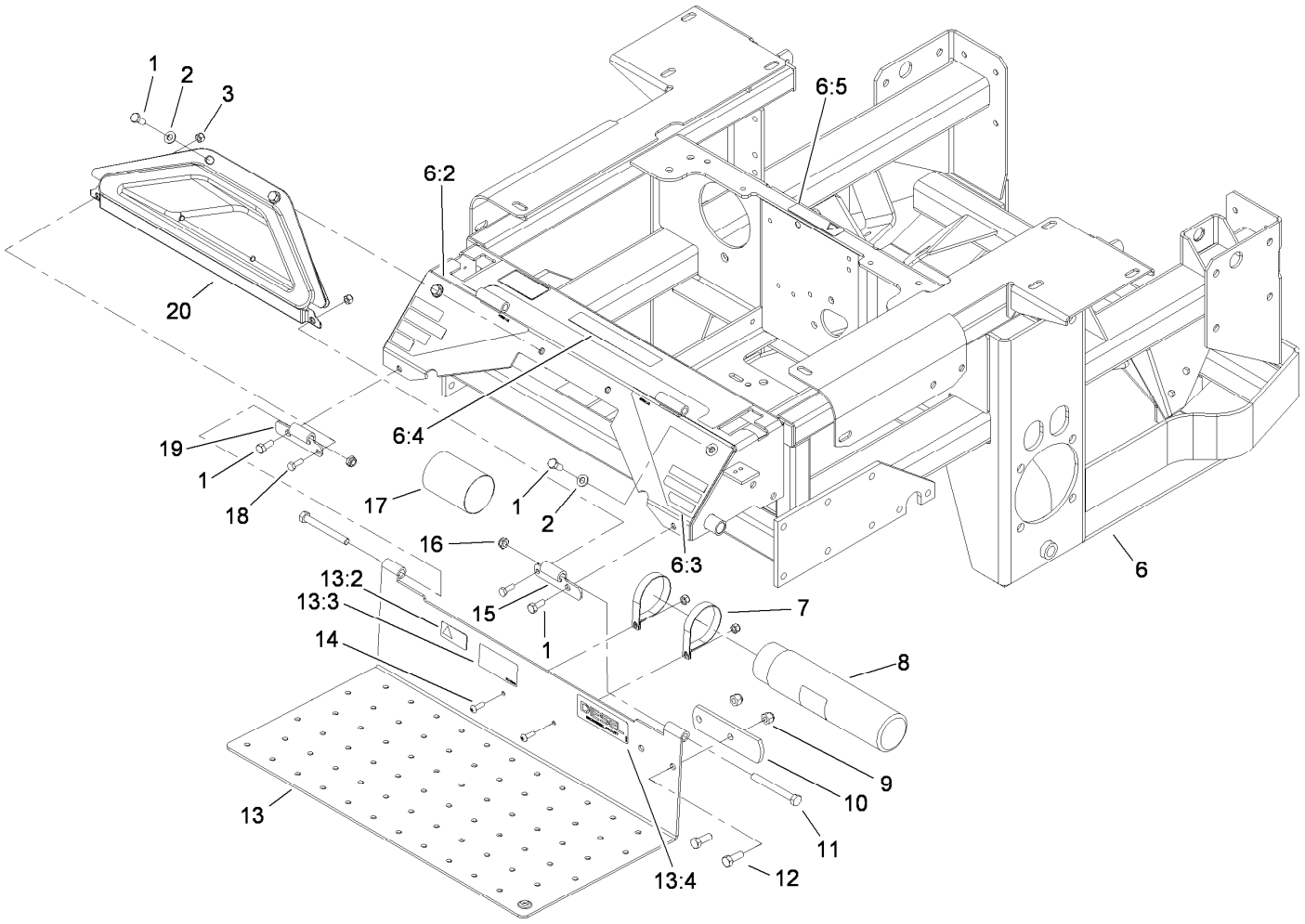
● Not serviced separately



Caster Wheel and Z Stand Assembly

Ref.	Part Number	Qty.	Description
1	109-9125	2	Wheel And Tire ASM
1:1	1-633585	2	Bearing-Cone, Taper
1:2	103-0063	2	Seal-Caster
1:3	103-3051	2	Spacer-Nut
1:4	103-5156	1	Axle-Caster
1:5	109-9124	1	Wheel And Tire ASM
1:5:1	1-633584	1	Bearing-Cup
2	3296-23	2	Nut-Lock, NI
3	107-1874	1	Leg ASM
3:2	106-7464	1	Decal-Z Stand
4	3290-355	1	Pin-Hair
5	100-9692-01	1	Pivot Pin ASM
6	3-6781	2	Washer-Thrust
7	283-55	1	Pin-Clevis
8	323-8	1	Screw-HH
9	100-9686-01	1	Bracket-Latch
10	3296-39	2	Nut-Lock, NI

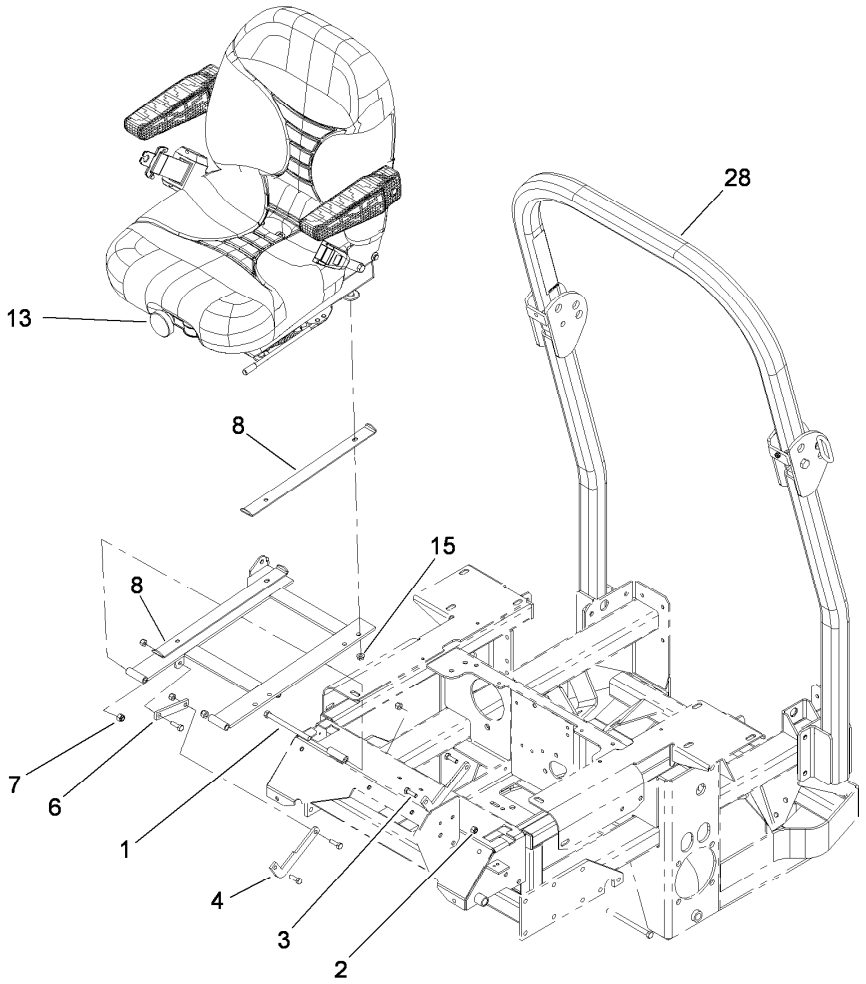
Ref.	Part Number	Qty.	Description
11	283-71	1	Pin-Lynch
12	254-72	4	Bearing-Cup, Tapered
13	254-94	4	Bearing-Cone, Tapered
14	1-633508	6	Washer-Bellville
15	3296-51	2	Nut-Lock, NI
16	103-4882	2	Cap-Grease
17	105-1647	1	Pin-Hitch, Cotterless
18	100-9385	1	Lanyard-Nylon
19	3296-42	1	Nut-Lock, NI
20	100-6547	2	Cushion-Rubber
21	100-6542-01	1	Bracket-Cradle
22	323-20	1	Screw-HH
23	321-4	1	Screw-HH
24	1-543511	2	Seal-Grease
25	103-1474-01	2	Caster-Fork
26	325-39	2	Screw-HH
28	103-2768	2	Guard-Seal



Engine Frame, Console and Floor Pan Assembly

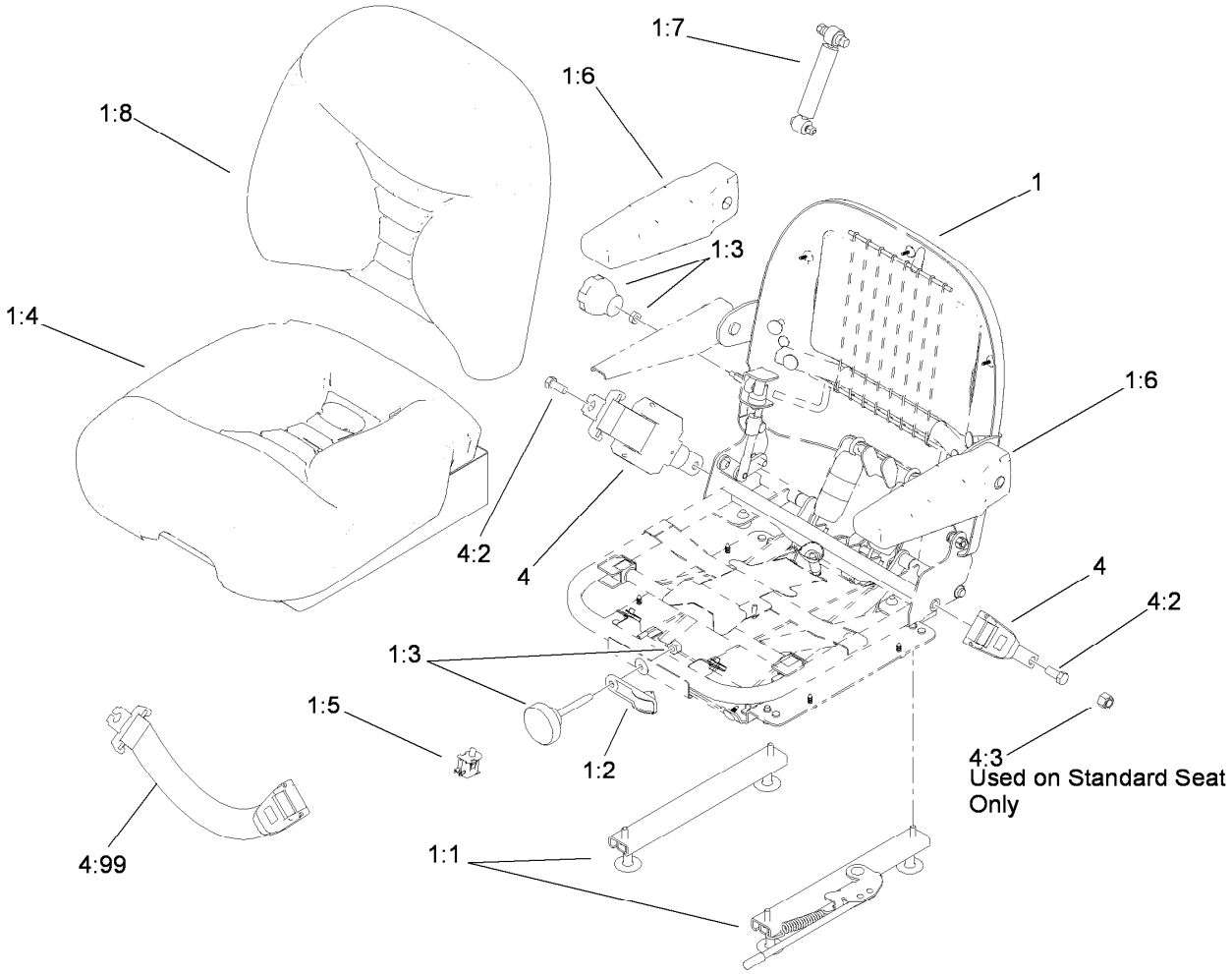
Ref.	*Part Number*	*Qty.*	*Description*
1	322-43	6	Screw-HH
2	3256-70	4	Washer-Flat
3	3296-42	4	Nut-Lock, NI
6	115-3551	1	Engine Frame ASM
6:2	106-9989	1	Decal-Warning
6:3	106-7492	1	Decal-Danger
6:4	107-9866	1	Decal-Console, Top
6:5	98-5954	2	Decal-Cover, Missing
7	107-1865	2	R-Clamp
8	104-7050	1	Tube-Manual
9	3296-39	2	Nut-Lock, NI
10	1-633964-03	1	Stop-Brake, Park
11	323-20	2	Screw-HH

Ref.	*Part Number*	*Qty.*	*Description*
12	323-6	2	Screw-HH
13	115-3852	1	Floor Pan ASM
13:2	98-4387	1	Decal-Protection, Ear
13:3	107-1864	1	Decal-Location, Manual
13:4	114-5879	1	Decal-Diesel, Bio-Ready
14	3258-166	2	Screw-PRH
15	106-7488-03	1	Hinge-Floorpan, LH
16	3296-59	2	Nut-Lock, NI
17	104-7048	1	Cap-Housing
18	321-4	2	Screw-HH
19	106-7489-03	1	Hinge-Floorpan, RH
20	106-7498	1	Pocket



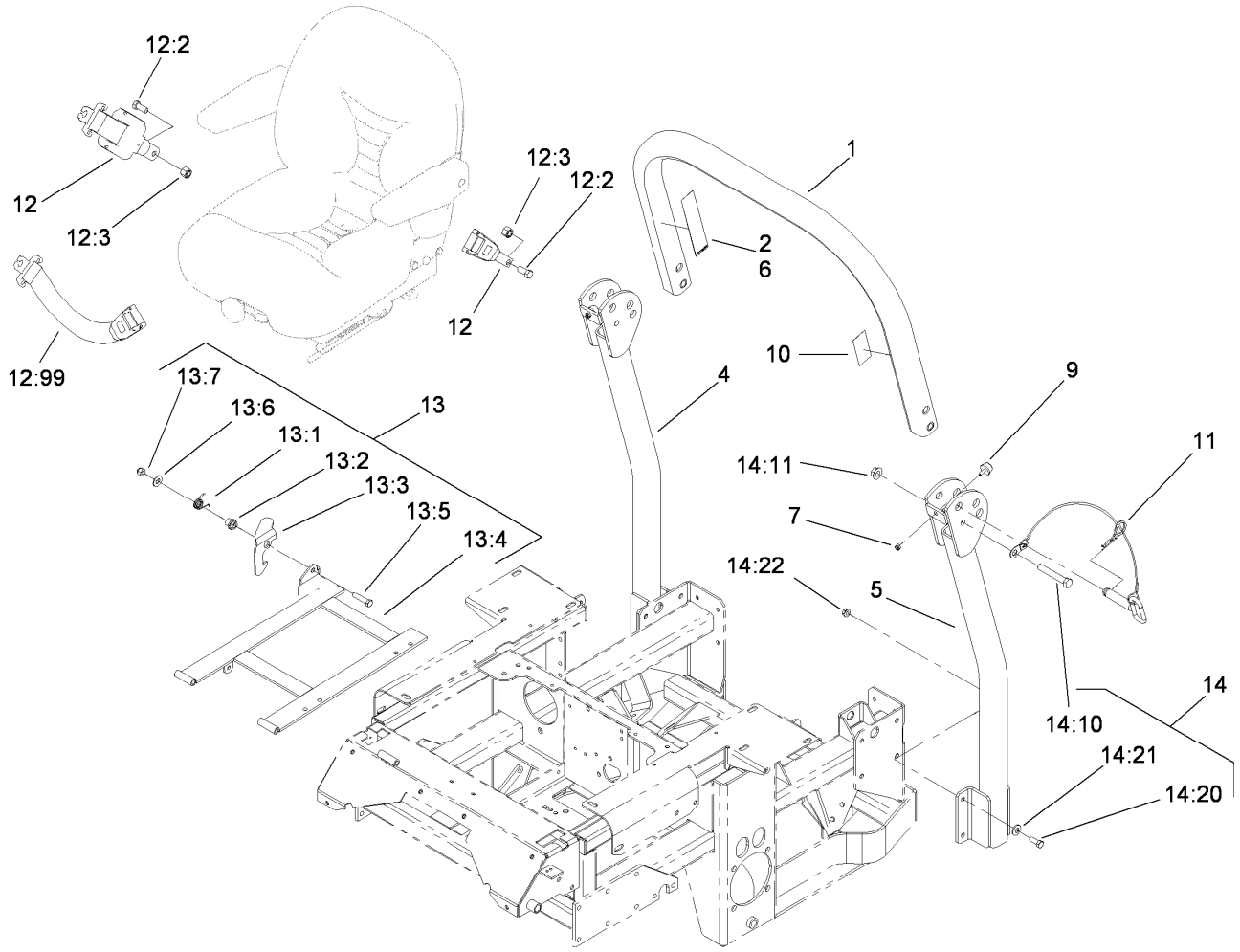
Seat and Roll-Over Protection System Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	323-39	2	Screw-HH
2	3296-29	4	Nut-Lock, NI
3	322-5	5	Screw-HH
4	109-2759	2	Link-Stop, Seat
6	103-5161	2	Link-Stop, Seat
7	3296-39	2	Nut-Lock, NI
8	1-633872-03	2	Stop-Seat
13	110-0838	1	Deluxe Seat ASM
15	32128-20	4	Nut-HF
28	106-7437	1	ROPS ASM



Deluxe Seat Assembly No. 110-0838

Ref.	*Part Number*	*Qty.*	*Description*
1	112-8355	1	Seat-Suspension
1:1	107-1880	1	Seat Track Kit
1:2	107-1885	1	Weight Indicator Kit
1:3	107-1881	1	Knob Kit
1:4	107-1883	1	Bottom Cushion Kit
1:5	82-2190	1	Switch-Bail
1:6	107-1887	1	Armrest Kit
1:7	107-1884	1	Shock Absorber Kit
1:8	112-8356	1	Cushion-Back
4	110-0883	1	Retractable Seatbelt Kit
4:2	3212-4	2	Screw-HH
4:3	3296-7	2	Nut-Lock
4:99	109-6226	1	Seat Belt Extension Kit

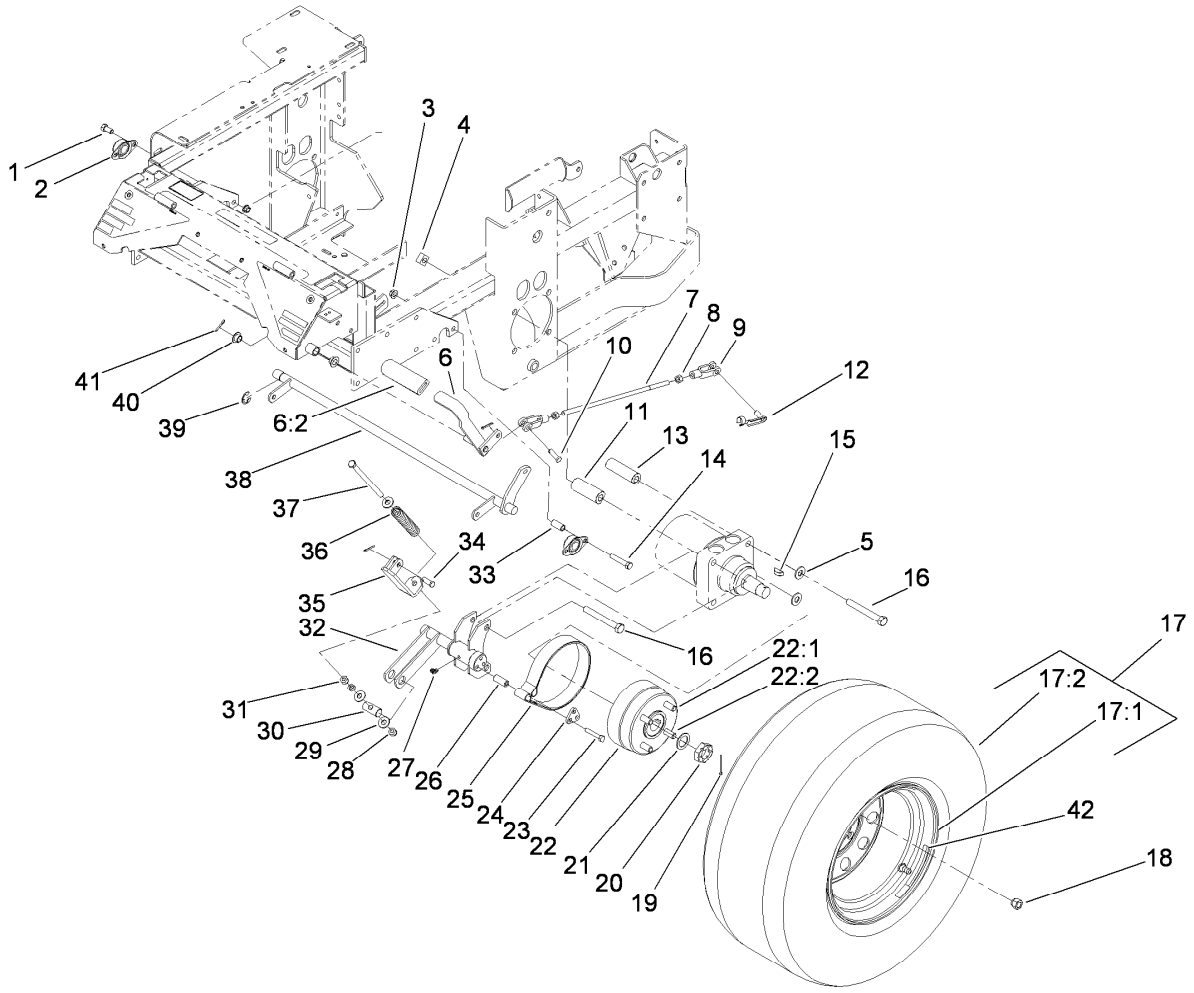


Roll-Over Protection System Assembly No. 106-7437

Ref.	Part Number	Qty.	Description
1		1	Upper Tube ASM ●
2	107-2102	1	Decal-Warning, Folding ROPS
4		1	Tube-Support, RH ●
5		1	Tube-Support, LH ●
6	107-3069	1	Decal-Warning, Folding ROPS
7	3296-73	2	Nut-Lock, NI
9	109-2365	2	Rubber Bumper ASM (W/Stud)
10	107-2101	1	Decal-ROPS
11	103-4553	2	ROPS Fold Pin ASM
12	110-0883	1	Retractable Seatbelt Kit
12:2	3212-4	2	Screw-HH
12:3	3296-7	2	Nut-Lock
12:99	109-6226	1	Seat Belt Extension Kit

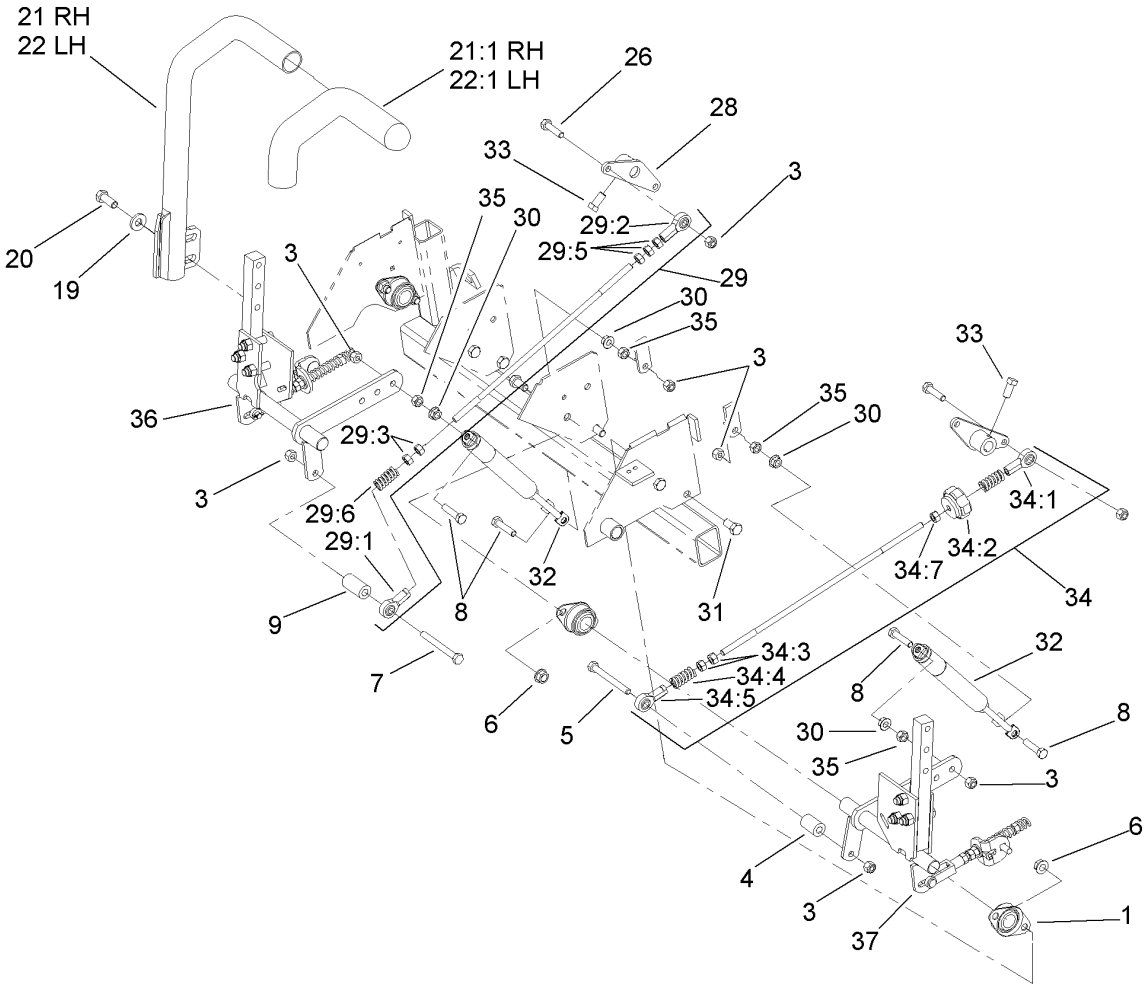
Ref.	Part Number	Qty.	Description
13	109-1813	1	Seat Frame Single Latch ASM
13:1	103-5520	1	Catch-Latch, Single
13:2	103-5519	1	Spring-Torsion, Latch
13:3	107-0075	1	Bushing-Latch, Seat
13:4	109-9222-03	1	Frame-Seat
13:5	3256-4	1	Washer-Flat
13:6	3296-39	1	Nut-Lock, NI
13:7	323-9	1	Screw-HH
14		1	Bag-Bolt ●
14:10	325-13	2	Screw-HH
14:11	32128-23	2	Nut-HF
14:20	323-8	8	Screw-HH
14:21	98-5975	8	Washer-Belleville
14:22	3290-357	8	Nut-HHF, Whiz

● Not serviced separately



Wheel and Brake Assembly

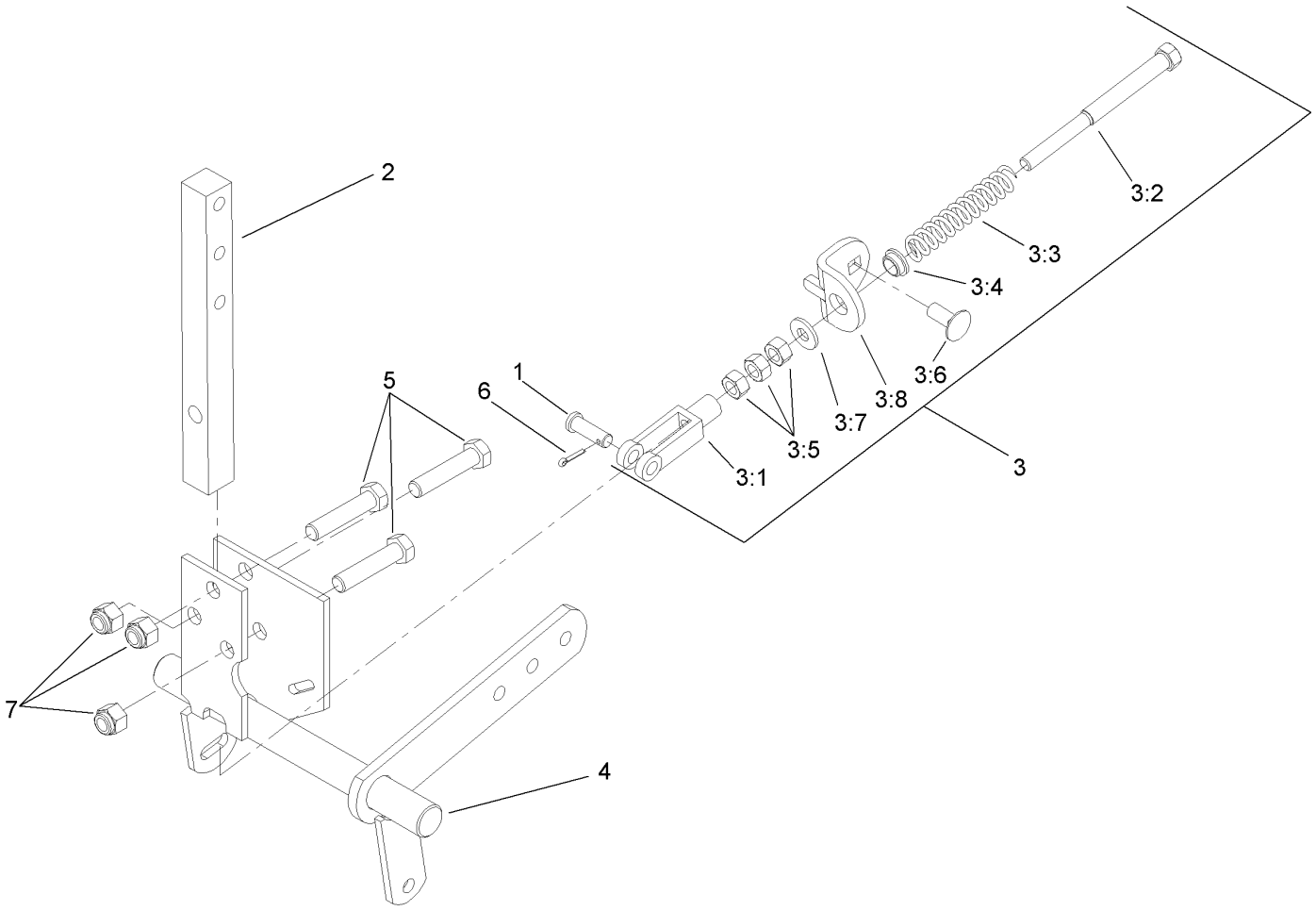
Ref.	Part Number	Qty.	Description
1	323-4	2	Screw-HH
2	1-633102	2	Bearing-Flange, Side
3	3290-357	4	Nut-HHF, Whiz
4	109-5618	8	Nut-Square, Special
5	87-7270	4	Washer-Thrust
6	103-0197	1	Brake Lever And Grip ASM
6:2	1-633268	1	Grip-Lever
7	103-1708	1	Rod-Brake
8	3219-3	2	Nut-Hex
9	1-633131	2	Yoke-Linkage, Brake
10	1-808285	1	Pin-Clevis
11	114-1184	4	Spacer-Wheel, Short
12	103-2399	1	Pin-Spring, Clevis
13	114-1185	4	Spacer-Wheel, Long
14	323-10	2	Screw-HH
15	3257-42	2	Key-Woodruff
16	325-17	8	Screw-HH
17	109-3157	2	Wheel And Tire ASM
17:1	109-3156	1	Rim ASM
17:2	103-4963	1	Tire
18	242-50	8	Nut-Lug
19	1-806800	2	Pin-Cotter
20	1-809036	2	Nut-HH
21	1-523157	2	Washer-Spacer
22	103-0590	2	Hub And Wheel ASM
22:1	103-0589	1	Wheel Hub ASM
22:2	1-633926	4	Stud-Wheel
23	322-9	6	Screw-HH
24	103-0374	2	Retainer-Band, Brake
25	103-0355	2	Band-Brake
26	103-0384	6	Spacer
27	1481	2	Fitting-Grease
28	3296-39	4	Nut-Lock, NI
29	3256-4	6	Washer-Flat
30	1-633144	2	Pin-Trunion
31	3218-3	2	Nut-Jam
32	103-0844-03	2	Brake-Narrow
33	103-0051	2	Spacer-Retainer, Brake
34	1-808284	2	Pin-Clevis
35	103-1117-03	2	Linkage-Brake, Lower
36	1-633454	2	Spring-Brake
37	323-58	2	Bolt-TAP, HH
38	103-5243-03	1	Shaft-Brake
39	32151-48	1	E-Ring
40	1-513140	2	Bearing-Control
41	3272-10	4	Pin-Cotter
42	109-7949	2	Decal



Motion Control Assembly

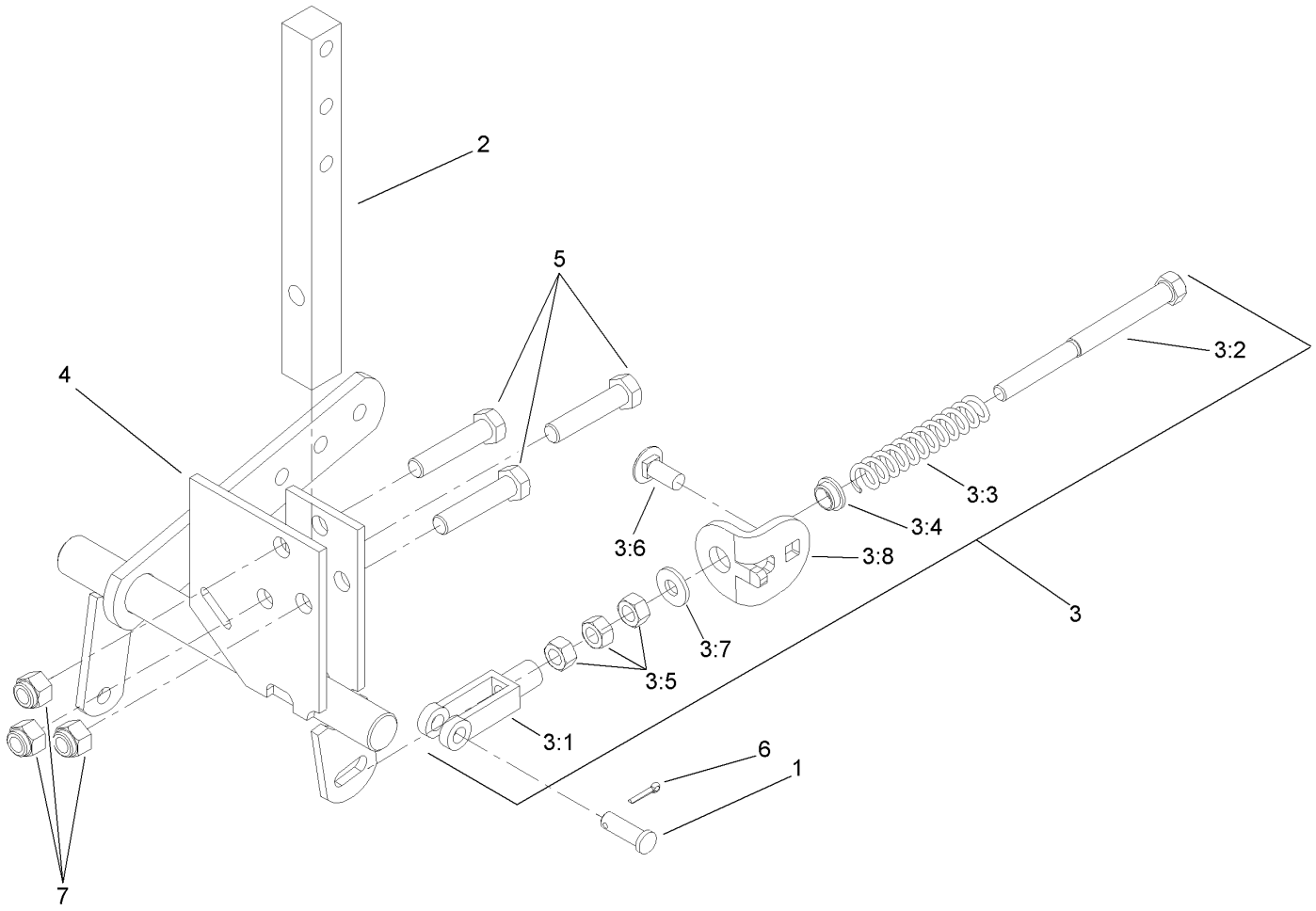
Ref.	Part Number	Qty.	Description
1	1-633102	4	Bearing-Flange, Side
3	3296-29	8	Nut-Lock, NI
4	103-1361	1	Spacer-Hydro Control, LH
5	322-12	1	Screw-HH
6	3290-357	8	Nut-HHF, Whiz
7	322-14	1	Screw-HH
8	1-403180	4	Screw-HH
9	103-5192	1	Spacer-Control, HYD
19	98-5975	4	Washer-Belleville
20	323-6	4	Screw-HH
21	108-7237	1	RH Lever ASM
21:1	106-9987	1	Grip-Control, Motion
22	108-7238	1	LH Lever ASM
22:1	106-9987	1	Grip-Control, Motion
26	322-6	4	Screw-HH
28	103-0194-03	2	Arm-Control, Hydro
29	103-5190	1	RH HYD Connect Link ASM
29:1	1-543017	1	Balljoint-RH

Ref.	Part Number	Qty.	Description
29:2	1-633152	1	Balljoint-LH
29:3	1-804524	2	Nut
29:5	3219-2	3	Nut-Hex
29:6	1-323245	1	Spring-Compression
30	32128-20	6	Nut-HF
31	323-4	8	Screw-HH
32	109-2339	2	Damper-Control, Motion
33	1-803022	2	Screw-Set
34	103-3062	1	Tracking Rod ASM
34:1	1-543017	1	Balljoint-RH
34:2	103-3060	1	Knob-Tracking
34:3	1-804524	2	Nut
34:4	1-323245	2	Spring-Compression
34:5	1-633152	1	Balljoint-LH
34:7	3219-2	1	Nut-Hex
35	3217-6	4	Nut-Hex
36	109-3978	1	RH Motion Control ASM
37	109-3979	1	LH Motion Control ASM



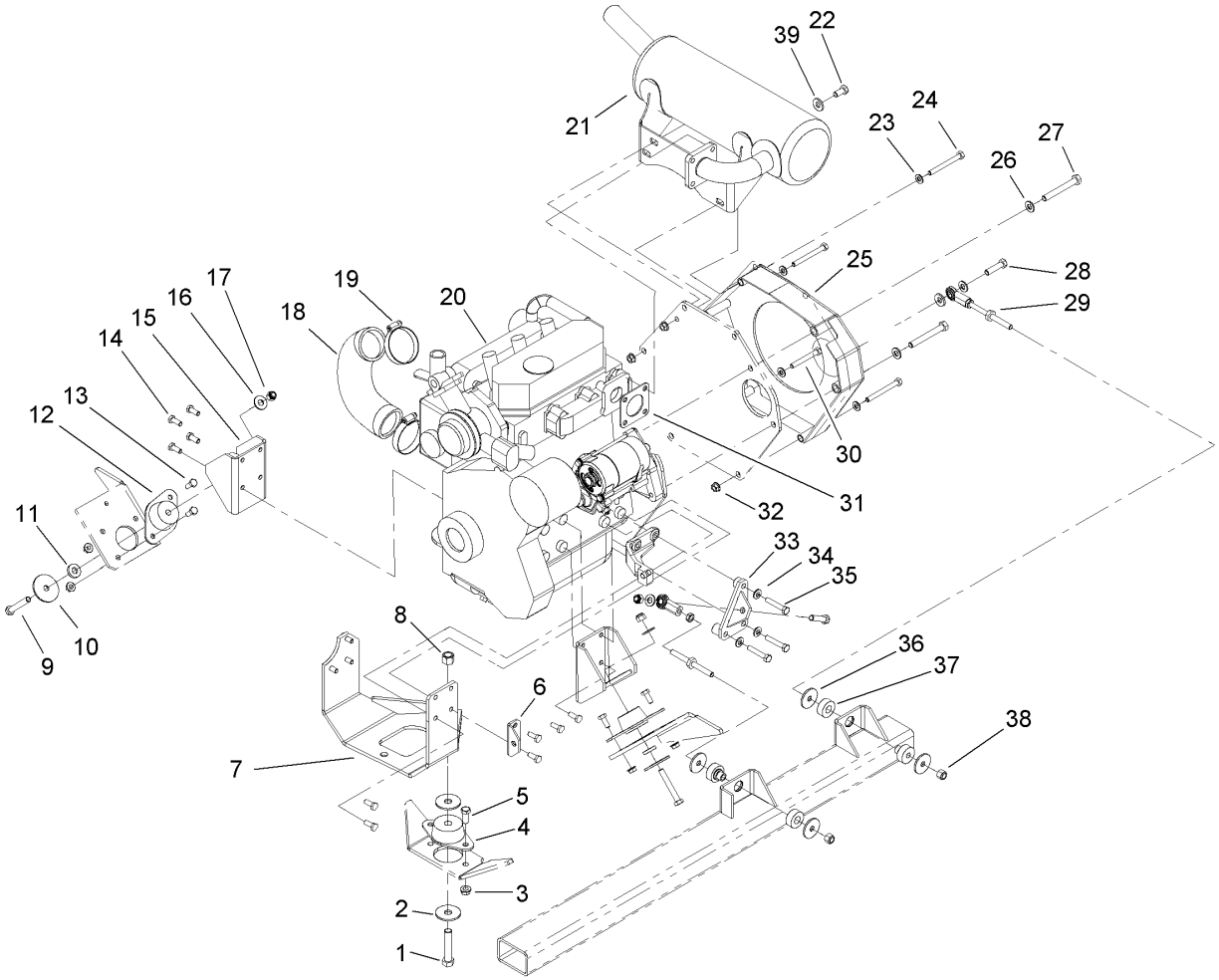
RH Motion Control Assembly No. 109-3978

Ref.	*Part Number*	*Qty.*	*Description*
1	1-808280	1	Pin-Clevis
2	103-0407	1	Arm-Shaft, Control
3	109-3903	1	Neutral Return ASM
3:1	1-303105	1	Yoke-Adjustable
3:2	1-603737	1	Bolt-Return, Neutral
3:3	1-603807	1	Spring-Return, Neutral
3:4	109-3769	1	Bushing-Nylon, Flanged
3:5	3219-2	3	Nut-Hex
3:6	3230-23	1	Screw-CARR
3:7	3256-2	1	Washer-Flat
3:8	109-3908	1	Tab-Adjustment
4	109-3980	1	Control-Motion, RH
5	323-9	3	Screw-HH
6	3272-5	1	Pin-Cotter
7	3296-39	3	Nut-Lock, NI



LH Motion Control Assembly No. 109-3979

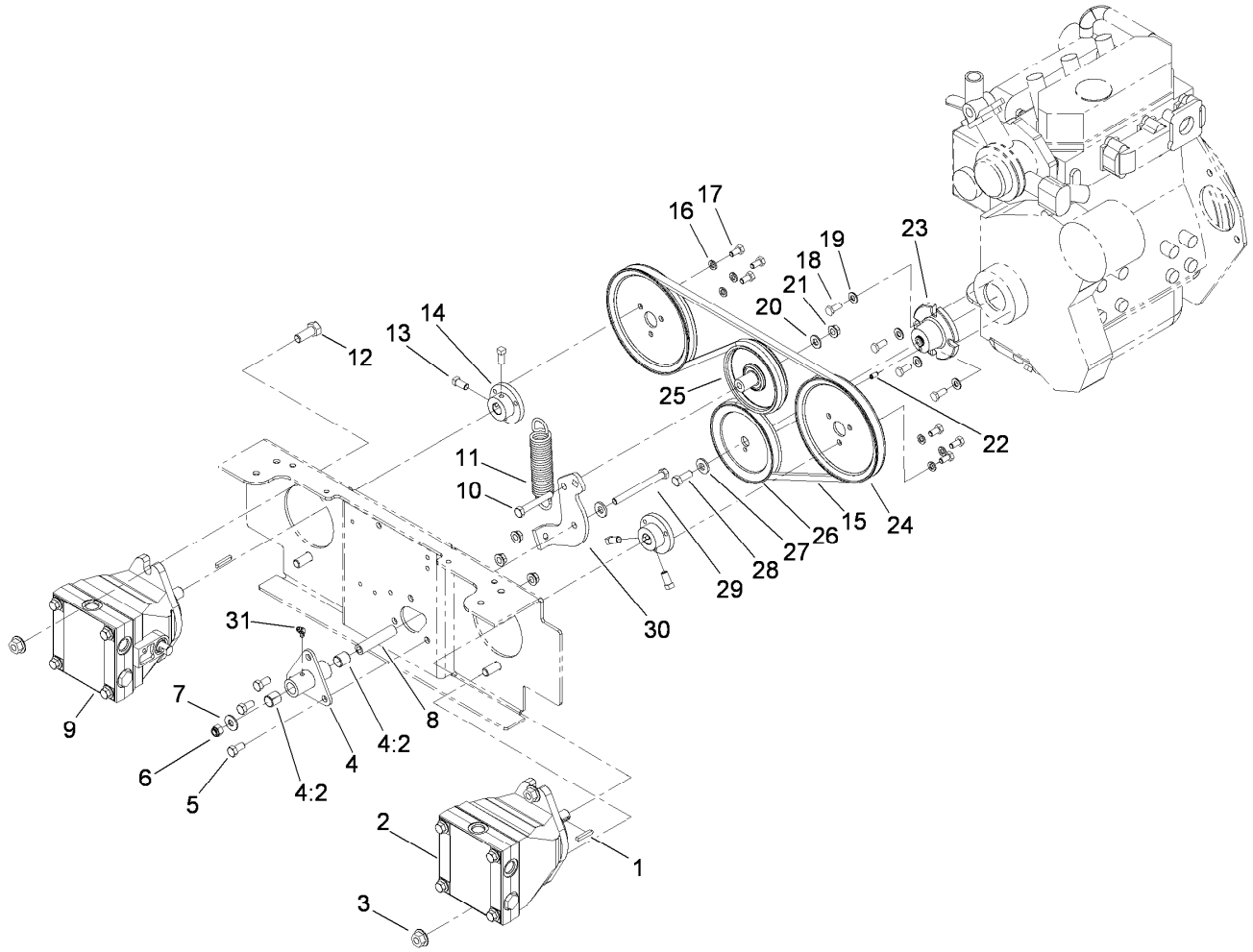
Ref.	*Part Number*	*Qty.*	*Description*
1	1-808280	1	Pin-Clevis
2	103-0407	1	Arm-Shaft, Control
3	109-3903	1	Neutral Return ASM
3:1	1-303105	1	Yoke-Adjustable
3:2	1-603737	1	Bolt-Return, Neutral
3:3	1-603807	1	Spring-Return, Neutral
3:4	109-3769	1	Bushing-Nylon, Flanged
3:5	3219-2	3	Nut-Hex
3:6	3230-23	1	Screw-CARR
3:7	3256-2	1	Washer-Flat
3:8	109-3908	1	Tab-Adjustment
4	109-3983	1	Control-Motion, LH
5	323-9	3	Screw-HH
6	3272-5	1	Pin-Cotter
7	3296-39	3	Nut-Lock, NI



Engine Mount Assembly

Ref.	Part Number	Qty.	Description
1	325-10	1	Screw-HH
2	86-1990	2	Washer
3	3290-357	2	Nut-HHF, Whiz
4	103-1022	1	Isolator-Rear
5	323-5	2	Screw-HH
6	103-3908	1	Bracket-Ground
7	103-0870-03	1	Rear Engine Mount ASM
8	3296-23	1	Nut-Lock, NI
9	323-12	2	Screw-HH
10	83-1040	2	Washer-Flat
11	66-6480	2	Washer
12	103-2613	2	Isolator-Side
13	322-3	4	Screw-HH
14	33114-020	15	Screw-HH
15	103-0839-03	2	LH And RH Engine Mount ASM
16	3256-4	2	Washer-Flat
17	3296-39	3	Nut-Lock, NI
18	103-0921	1	Hose
19	2412-42	2	Clamp-Hose

Ref.	Part Number	Qty.	Description
20	103-0888	1	Engine-Daihatsu
21	103-2592	1	Muffler Kit
22	98-5975	3	Washer-Belleville
23	3256-23	4	Washer-Flat
24	322-14	3	Screw-HH
25	103-3573-03	1	Cover-Flywheel
26	3256-24	4	Washer-Flat
27	56-2150	2	Screw-HH
28	323-8	2	Screw-HH
29	103-3745	2	Ball Joint Link ASM
30	322-12	1	Screw-HH
31	103-1385	1	Gasket-Muffler
32	32128-20	7	Nut-HF
33	103-3556-03	1	Bracket-Engine, Front
34	1-303334	3	Washer-Spring
35	33114-045	3	Screw-HH
36	93-6099	4	Washer
37	103-3568	2	Isolator-Link
38	3296-6	2	Nut-Lock
39	63-7790	2	Screw-Cap

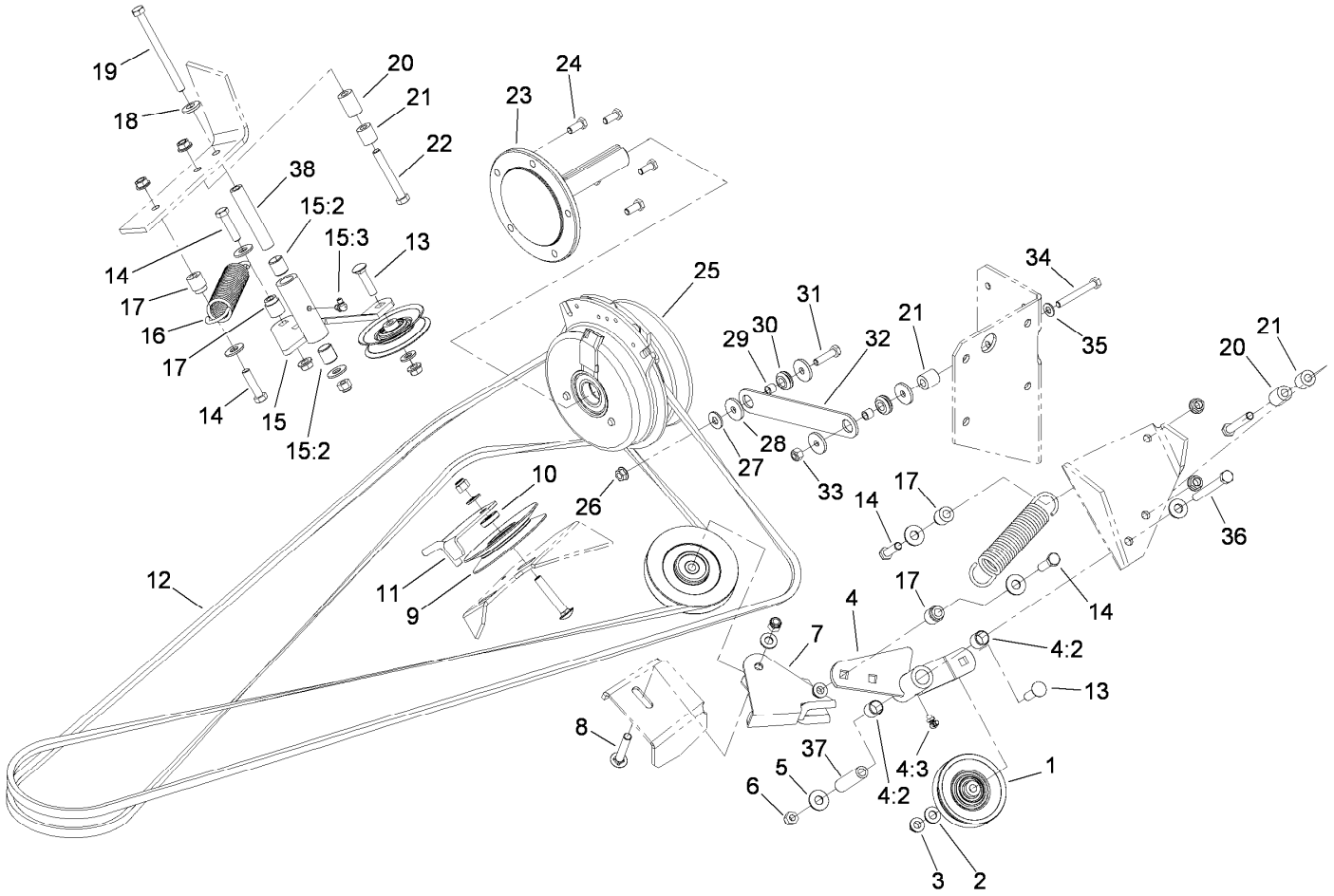


Wheel Pump Drive Assembly

Ref.	Part Number	Qty.	Description
1	103-2739	2	Key
2	103-2978	1	Pump-Hydro, LH
2:1	100-6110	1	Overhaul Seal Kit ●
3	32128-49	4	Nut-HHF
4	103-4467	1	Pump Idler ASM
4:2	1-513034	2	Sleeve-Bearing
5	323-4	3	Screw-HH
6	3296-39	1	Nut-Lock, NI
7	3256-4	1	Washer-Flat
8	103-0919	1	Bushing-Tightener, Pivot
9	103-2979	1	Pump-Hydro, RH
9:1	100-6110	1	Overhaul Seal Kit ●
10	323-12	1	Screw-HH
11	1-603413	1	Spring-Extension
12	325-5	4	Screw-HH
13	1-803050	4	Screw-Set
14	103-1471	2	Hub-Pump

Ref.	Part Number	Qty.	Description
15	107-7724	1	Belt-V
16	1-805005	6	Washer-Lock
17	322-2	6	Screw-HH
18	33114-020	4	Screw-HH
19	3256-23	4	Washer-Flat
20	3256-24	1	Washer-Flat
21	3290-357	4	Nut-HHF, Whiz
22	103-1459	1	Pin-Roll
23	103-1421	1	Hub-Drive, Pump
24	103-1472	2	Sheave-Pump
25	103-4464	1	Idler-Pump
26	103-5164	1	Sheave-Engine
27	98-5975	2	Washer-Belleville
28	323-6	1	Screw-HH
29	323-16	1	Screw-HH
30	103-4463-03	1	Arm-Tightener, Pump
31	302-11	1	Fitting-Lube, 45 DEG

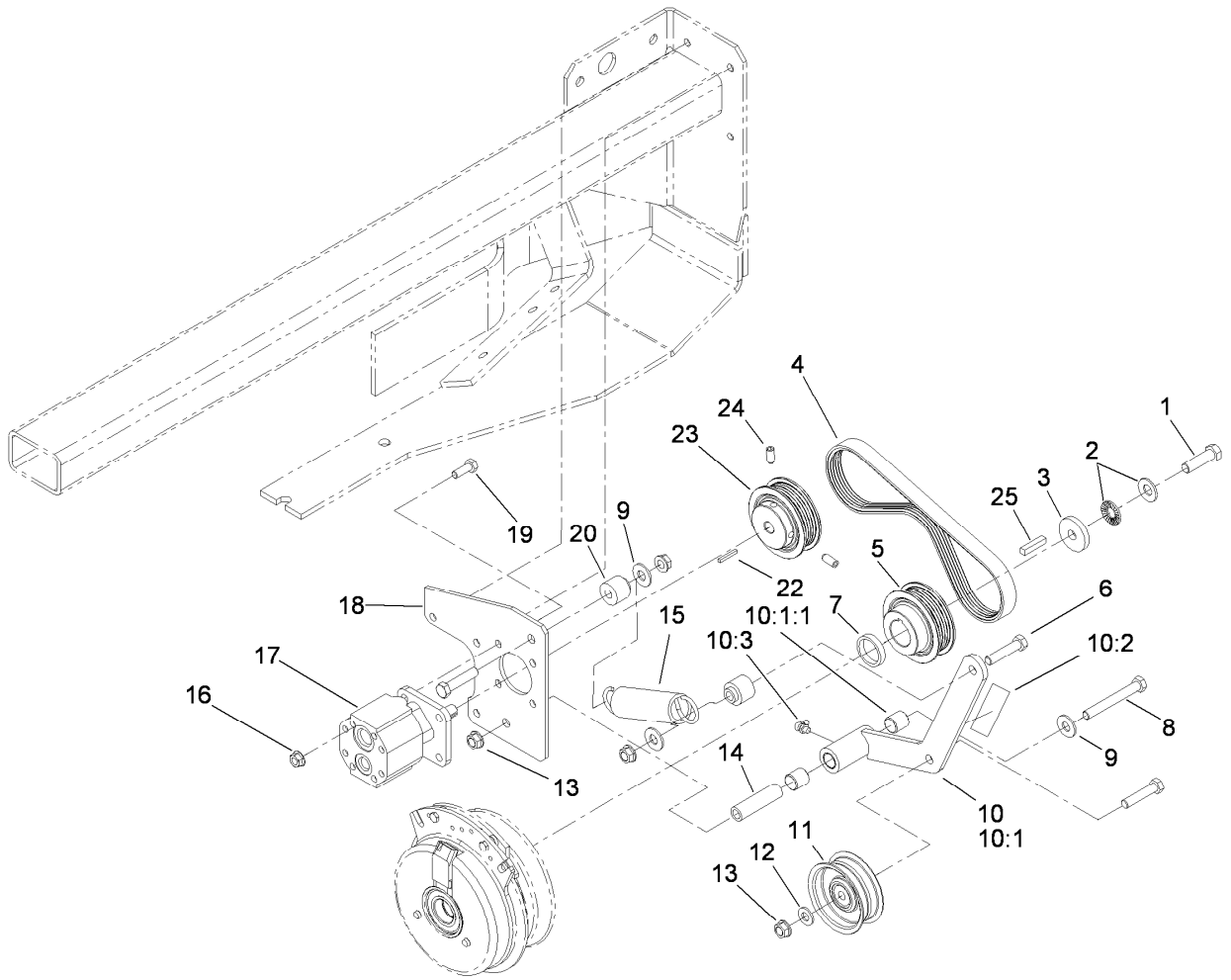
● Not illustrated



Deck Belt Drive Assembly

Ref.	Part Number	Qty.	Description
1	103-0983	2	Sheave
2	3256-24	4	Washer-Flat
3	3290-357	7	Nut-HHF, Whiz
4	107-9851	1	LH Idler ASM
4:2	1-513034	2	Sleeve-Bearing
4:3	302-40	1	Fitting-Grease
5	3256-4	6	Washer-Flat
6	3296-39	4	Nut-Lock, NI
7	103-4011-03	1	Guard-Belt Sheave, LH
8	3231-40	2	Bolt-CARR
9	103-0984	2	Sheave
10	103-3186	1	Spacer-Bracket, Guide
11	103-4039-03	1	Guard-Belt Sheave, RH
12	107-7738	2	Belt-V
13	3231-4	2	Screw-CARR
14	323-9	4	Screw-HH
15	107-9861	1	RH Idler ASM
15:2	1-513034	2	Sleeve-Bearing
15:3	302-40	1	Fitting-Grease
16	103-1767	2	Spring-Extension
17	103-1503	4	Spacer-Tightener, Belt

Ref.	Part Number	Qty.	Description
18	98-5975	2	Washer-Belleville
19	323-23	1	Screw-HH
20	103-1361	2	Spacer-Hydro Control, LH
21	103-0193	3	Spacer-Strap, Clutch
22	323-13	2	Screw-HH
23	103-0286	1	Shaft-Stub
24	33114-020	5	Screw-HH
25	109-6627	1	Clutch Kit
26	32128-20	1	Nut-HF
27	3256-3	1	Washer-Flat
28	1-613235	4	Washer
29	1-633545	2	Spacer
30	1-633630	2	Grommet
31	322-6	1	Screw-HH
32	103-0192-03	1	Strap-Clutch / Brake
33	3296-29	1	Nut-Lock, NI
34	322-12	1	Screw-HH
35	3256-23	1	Washer-Flat
36	323-16	1	Screw-HH
37	103-0919	1	Bushing-Tightener, Pivot
38	103-0040	1	Bushing-Tightener, Pivot

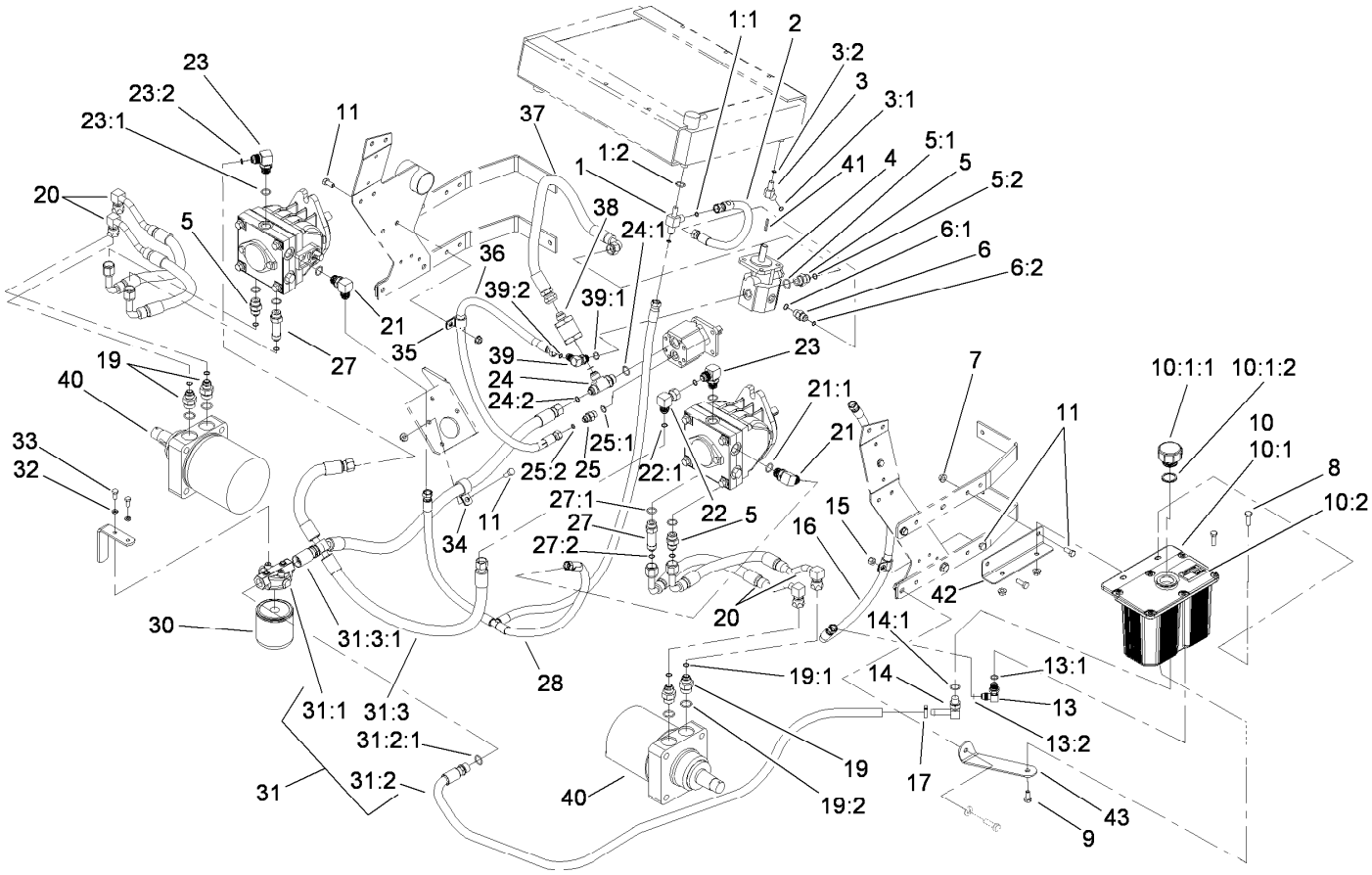


Cooling Pump Drive Assembly

Ref.	Part Number	Qty.	Description
1	3212-6	1	Screw-HH
2	1-603610	2	Washer-Spring
3	1-543610	1	Washer-Clutch
4	107-7739	1	Belt-Poly V
5	103-1339	1	Sheave-5 Rib
6	323-9	3	Screw-HH
7	103-1422	1	Spacer-Pump Drive, Fan
8	323-14	1	Screw-HH
9	3256-4	3	Washer-Flat
10	107-9879	1	Wheel Pump Tension ASM
10:1		1	Tensioner ASM ●
10:1:1	1-513034	2	Sleeve-Bearing
10:2	98-5954	1	Decal-Cover, Missing
10:3	302-40	1	Fitting-Grease

Ref.	Part Number	Qty.	Description
11	1-633167	1	Sheave-Idler
12	3256-24	1	Washer-Flat
13	3290-357	4	Nut-HHF, Whiz
14	1-603384	1	Bushing-Pivot, Idler
15	1-603414	1	Spring-Extension
16	3296-29	4	Nut-Lock, NI
17	103-7431	1	Pump-Fan, Cooling
18	103-1299-03	1	Plate-Mating, Fan Pump
19	322-4	4	Screw-HH
20	103-1575	2	Spacer-Spring, Fan Pump
22	32150-1	1	Key-Square
23	103-1338	1	Sheave-5 Rib
24	3246-6	2	Screw-Set, HSH
25	13-2840	1	Key-Square

● Not serviced separately

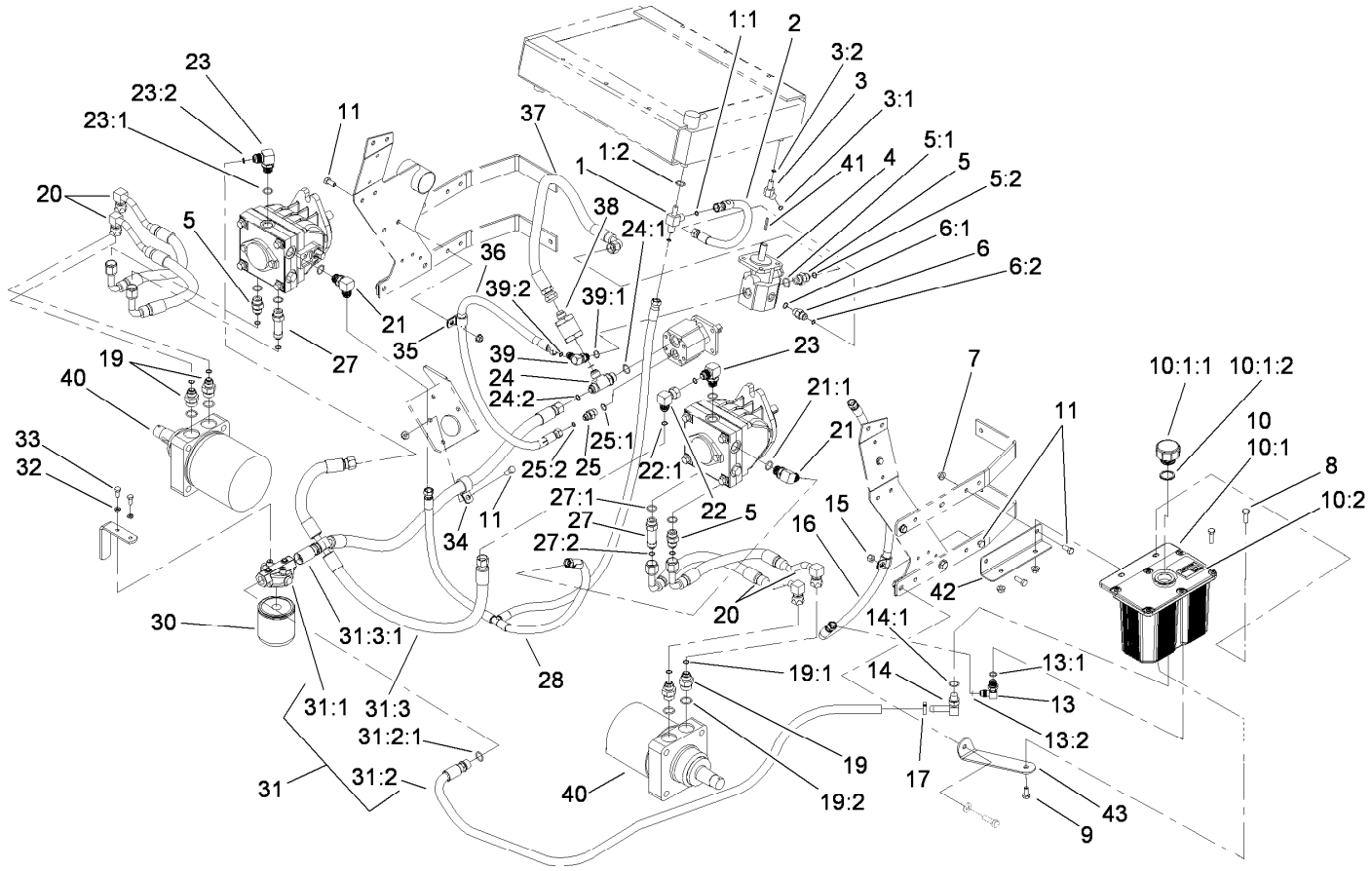


Hydraulic System Assembly

Ref.	Part Number	Qty.	Description
1	108-5998	1	Fitting-HYD, Straight Tee
1:1	237-21	2	O-Ring
1:2	237-42	1	O-Ring
2	103-2173	1	Fan Case Drain Hose ASM
3	108-5999	1	Fitting-HYD, 45 Elbow
3:1	237-21	1	O-Ring
3:2	237-42	1	O-Ring
4	103-7430	1	Motor-Fan, Cooling
5	1-603990	3	Fitting-Straight
5:1	1-603920	1	O-Ring
5:2	1-603992	1	O-Ring
6	103-2157	1	Fitting-Straight
6:1	1-603923	1	O-Ring
6:2	103-1020	1	O-Ring
7	32128-20	7	Nut-HF
8	322-5	4	Screw-HH
9	322-3	2	Screw-HH
10	109-0582	1	Hydraulic Tank ASM
10:1		1	Tank-Hydraulic ●
10:1:1	103-1948	1	Cap-Reservoir, HYD
10:1:2	103-1949	1	Gasket-Cap
10:2	1-523552	1	Decal-Tank, HYD
11	322-4	5	Screw-HH
13	103-2155	1	Fitting-90 DEG
13:1	1-603921	1	O-Ring
13:2	103-1020	1	O-Ring

● Not serviced separately

Ref.	Part Number	Qty.	Description
14	108-5316	1	Fitting-Elbow, 90 DEG
14:1	237-79	1	O-Ring
15	3296-29	1	Nut-Lock, NI
16	103-2174	1	Tank Return Hose ASM
17	103-2104	1	Clamp-Hose
19	1-603991	4	Fitting-Straight
19:1	237-80	1	O-Ring
19:2	1-603992	1	O-Ring
20	103-4680	4	HYD Hose ASM
21	103-1014	2	Fitting-Elbow, 90 DEG
21:1	1-603920	1	O-Ring
22	103-2315	1	Fitting-90 DEG
22:1	1-603992	1	O-Ring
23	103-2153	2	Fitting-90 DEG
23:1	1-603920	1	O-Ring
23:2	1-603992	1	O-Ring
24	103-2159	1	Fitting-Tee
24:1	1-603920	1	O-Ring
24:2	1-603992	2	O-Ring
25	103-2156	1	Fitting-Straight
25:1	1-603921	1	O-Ring
25:2	103-1020	1	O-Ring
27	103-1940	2	Adapter-HYD, Straight
27:1	237-79	1	O-Ring
27:2	1-603992	1	O-Ring

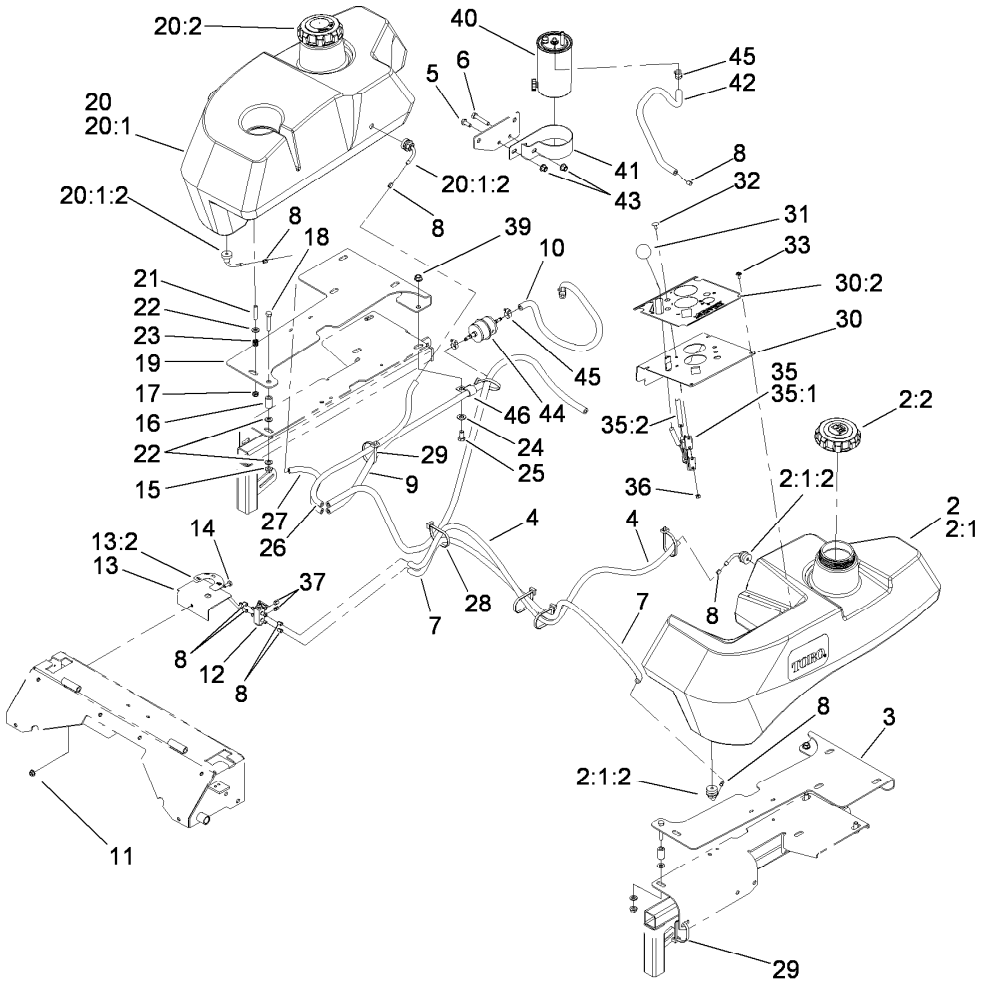


Hydraulic System Assembly (continued)

Ref.	Part Number	Qty.	Description
28	103-2172	1	Case Drain Hose ASM
30	23-9740	1	Filter-Oil
31		1	Charge Hose ASM ●
31:1	103-2259	1	Head-Filter
31:2	103-5121	1	Filter Inlet Hose ASM
31:2:1	1-603920	1	O-Ring
31:3	103-2269	1	Pump Inlet Hose ASM
31:3:1	1-603920	1	O-Ring
32	1-805004	2	Washer-Lock
33	321-3	2	Screw-HH
34	1-643312	1	Clip-Loom

Ref.	Part Number	Qty.	Description
35	1-633396	2	Clip-Loom
36	103-2148	1	Auxillary Pump Hose ASM
37	1-323241	1	Hose-Pressure, High
38	103-3110	1	Filter-In Line, 50 Micron
39	103-2155	1	Fitting-90 DEG
39:1	1-603921	1	O-Ring
39:2	103-1020	1	O-Ring
40	103-2489	2	Motor-Wheel, HYD
41	32150-1	1	Key-Square
42	112-1768-03	1	Bracket-Tank Mount, Upper
43	112-1778-03	1	Bracket-Tank Mount, Lower

● Not serviced separately

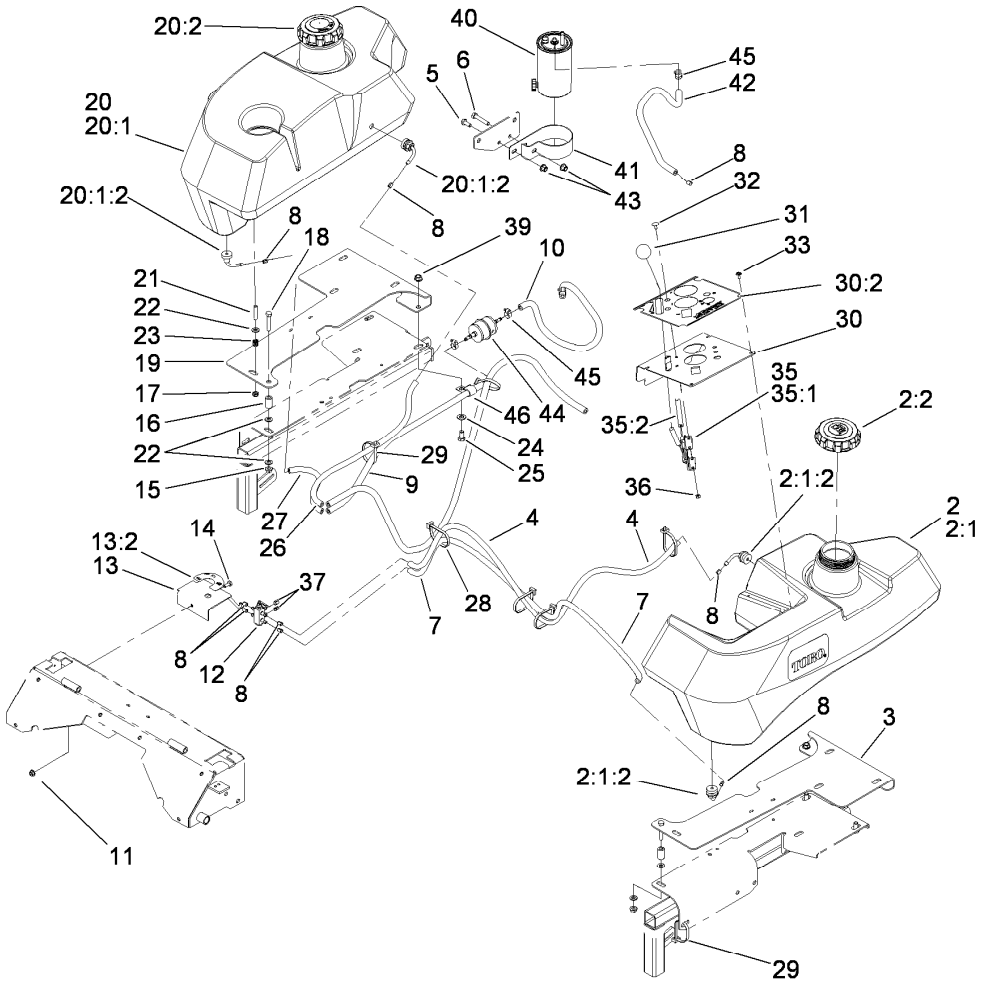


Tank and Fuel Line Assembly

Ref.	Part Number	Qty.	Description
2	115-3556	1	LH Fuel Tank Kit
2:1		1	Tank-Fuel, LH ●
2:1:2	103-2615	2	Fitting-Fuel, Bulkhead
2:2	114-8214	1	Biodiesel Cap ASM
3	107-7672-03	1	Bracket-Fuel Tank, LH
4	109-0273	1	Hose-Fuel
5	322-3	1	Screw-HH
6	322-9	1	Screw-HH
7	109-0289	1	Hose-Fuel
8	1-643293	6	Clamp-Hose, Fuel
9	114-8206	1	Hose-Fuel
10	110-4113	1	Hose-Fuel
11	32128-33	1	Nut-HF
12	1-643234	1	Valve-Fuel, Dual Flow
13	107-9878	1	Bracket-Valve, Fuel
13:2	107-2114	1	Decal-Valve, Fuel
14	321-3	1	Screw-HH
15	3296-47	2	Nut-Lock, NI
16	94-7564	2	Spacer
17	3296-47	6	Nut-Lock, NI
18	322-9	2	Screw-HH
19	107-7671-03	1	Bracket-Fuel Tank, RH
20	115-3555	1	RH Fuel Tank Kit
20:1		1	Tank-Fuel, RH ●
20:1:2	103-2615	2	Fitting-Fuel, Bulkhead
20:2	114-8214	1	Biodiesel Cap ASM

Ref.	Part Number	Qty.	Description
21	1-633023	6	Stud
22	3256-23	10	Washer-Flat
23	1-633349	6	Spring-Tank, Fuel
24	3256-24	4	Washer-Flat
25	323-4	4	Screw-HH
26	110-5701	1	Hose-Fuel
27	109-0294	1	Hose-Fuel
28	110-4100	1	Hose-Fuel
29	1-303335	7	Tie-Plastic
30	117-0918	1	Control Panel ASM
30:2	117-0916	1	Decal-Panel, Control
31	1-603175	1	Knob-Ball
32	1-807513	2	Bolt-CARR
33	109-2661	4	Screw-PPH
35	110-5729	1	Throttle Control Cable ASM
35:1	112-2334	1	Lever-Throttle
35:2	110-5730	1	Cable-Throttle
36	3296-2	2	Nut-Lock, NI
37	1-643277	3	Clamp-Hose, Fuel
39	3290-357	4	Nut-HHF, Whiz
40	112-9188	1	Element-Filter, Fuel/Water
41	110-8807	1	Bracket-Filter, Fuel
42	114-8207	1	Hose-Fuel
43	3296-58	2	Nut-Lock, NI
44	112-7836	1	Filter-Inline

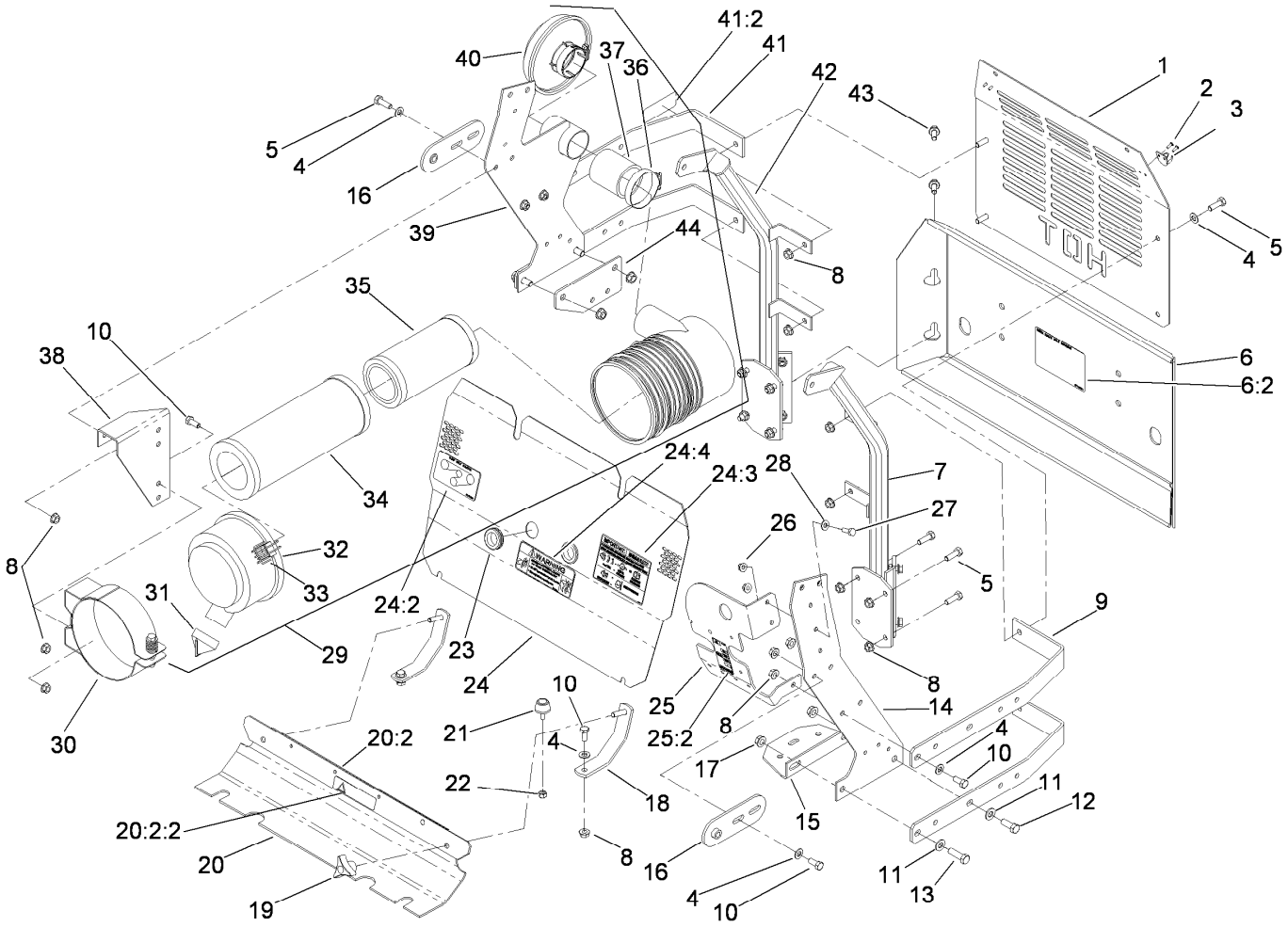
● Not serviced separately



Tank and Fuel Line Assembly (continued)

Ref.	*Part Number*	*Qty.*	*Description*
45	2412-108	7	Clamp-Worm
46	115-3559	1	Clamp-J

● Not serviced separately

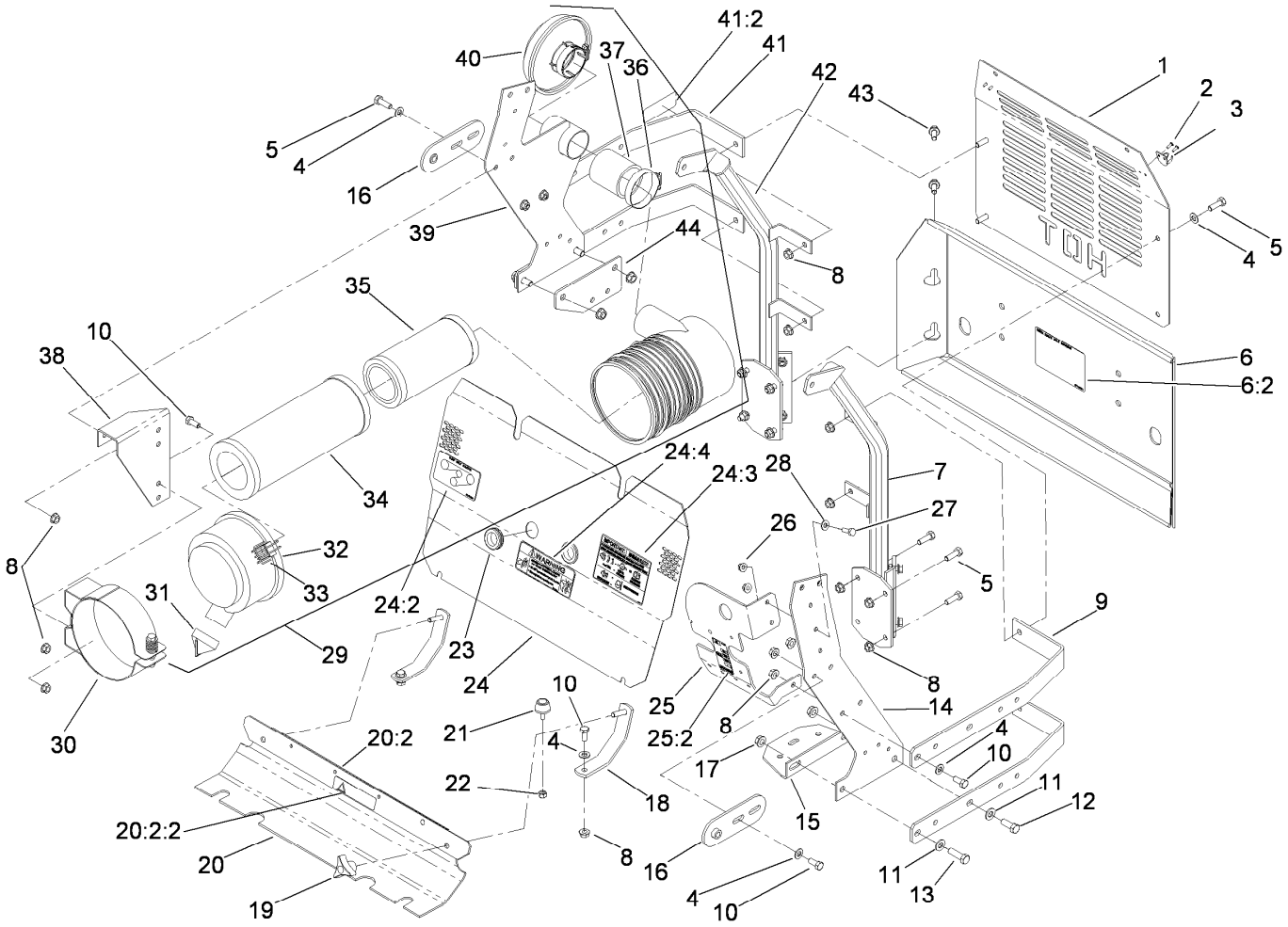


Front and Rear Engine Cover Assembly

Ref.	Part Number	Qty.	Description
1	103-4855-03	1	Guard-Muffler
2	923786	4	Rivet
3	1-643189	2	Keeper-Latch, Rubber
4	3256-23	13	Washer-Flat
5	322-5	14	Screw-HH
6	107-9865	1	Rear Bumper ASM
6:2	107-9864	1	Decal-Belt Routing, Deck Drive
7	103-5157-03	1	Frame-Upper, LH Rear
8	32128-20	23	Nut-HF
9	103-4906-03	3	Bar-Mount Frame, Radiator
10	322-3	9	Screw-HH
11	3256-24	4	Washer-Flat
12	323-6	2	Screw-HH
13	323-7	2	Screw-HH
14	103-5169-03	1	Mount-Side, LH
15	103-2603-03	1	Bracket-Bottle
16	1-632986-03	2	Shackle-Hinge
17	3290-357	4	Nut-HHF, Whiz
18	103-5163-03	2	Mount-Belt Shield, Engine
19	1-323385	2	Knob-3 Prong
20	107-7709	1	Engine Belt Shield ASM
20:2		1	Strip-Shield, Belt ●
20:2:2	98-5954	1	Decal-Cover, Missing
21	109-2365	2	Rubber Bumper ASM (W/Stud)

Ref.	Part Number	Qty.	Description
22	3296-42	2	Nut-Lock, NI
23	100-3815	2	Grommet-Rubber
24	107-7707	1	Engine Access Panel ASM
24:2	107-7705	1	Decal-Belt Routing, Pump
24:3	103-3276	1	Decal-Buzzer, Warning
24:4	103-5881	1	Decal-Devices, Rotating
25	117-3862	1	Fuse/Relay Bracket ASM
25:2	117-7818	1	Decal-Fuse
26	32128-33	2	Nut-HF
27	321-4	2	Screw-HH
28	3256-22	2	Washer-Flat
29	103-5178	1	Filter-Air
30	103-1058	1	Bracket-Filter, Air
31	99-3175	1	Valve-Ejector, Dust
32	103-1060	1	Cover-Filter, Air
33	1-643283	2	Latch-Cleaner, Air
34	103-1327	1	Filter-Air
35	103-1326	1	Filter-Air, Safety
36	2412-42	1	Clamp-Hose
37	103-5198	1	Hose-Intake
38	103-0953-03	1	Mount-Cleaner, Air
39	103-5123-03	1	RH Radiator And Ac Support ASM
40	100-2436	1	Hood
41	107-7715	1	Bar-Radiator
41:2	65-2690	1	Decal-Surface, Hot

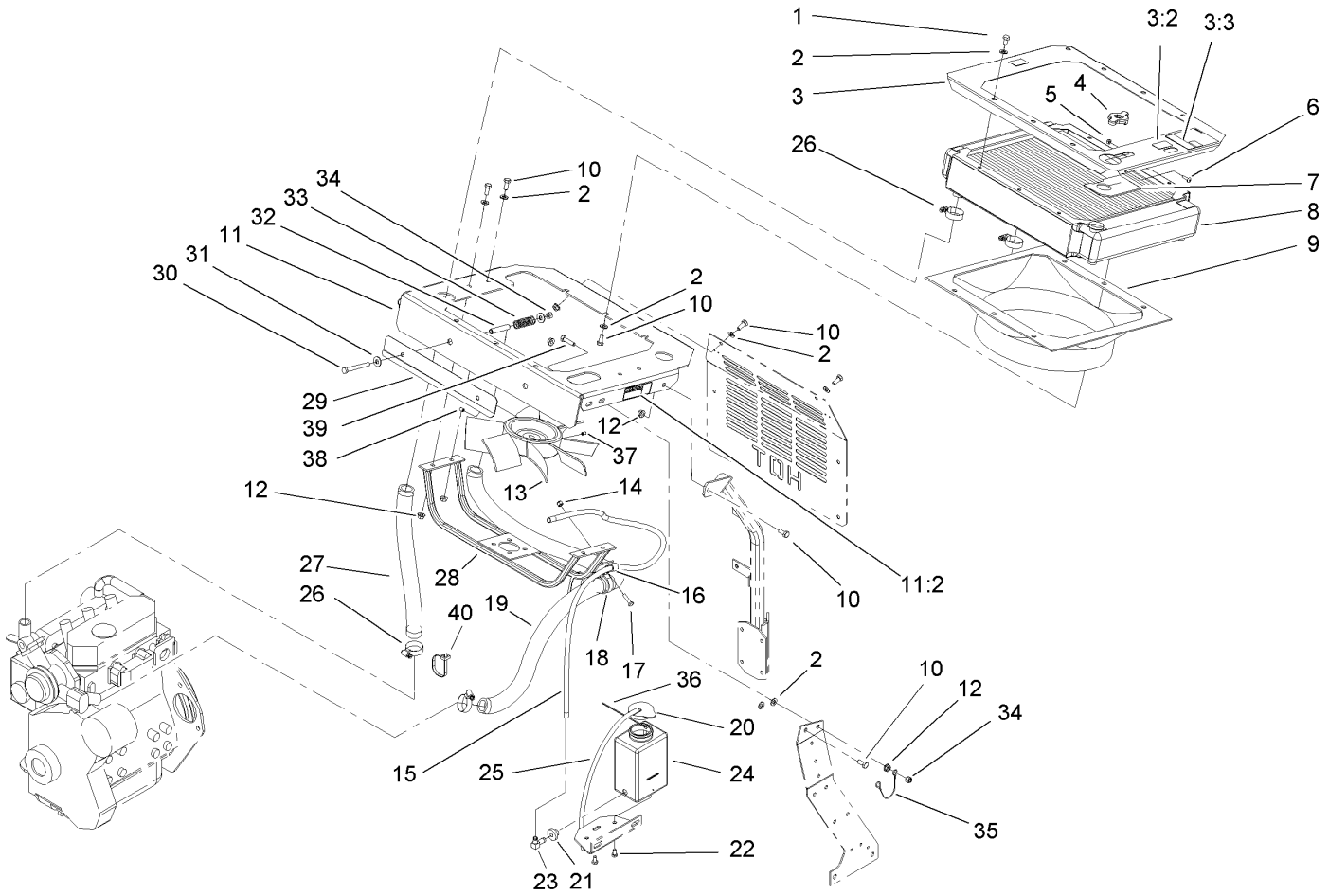
● Not serviced separately



Front and Rear Engine Cover Assembly (continued)

Ref.	Part Number	Qty.	Description
42	103-5158-03	1	Frame-Upper, RH Rear
43	3234-47	4	Screw-HHF
44	114-8205-03	1	Plate-Fuel Filter Mount

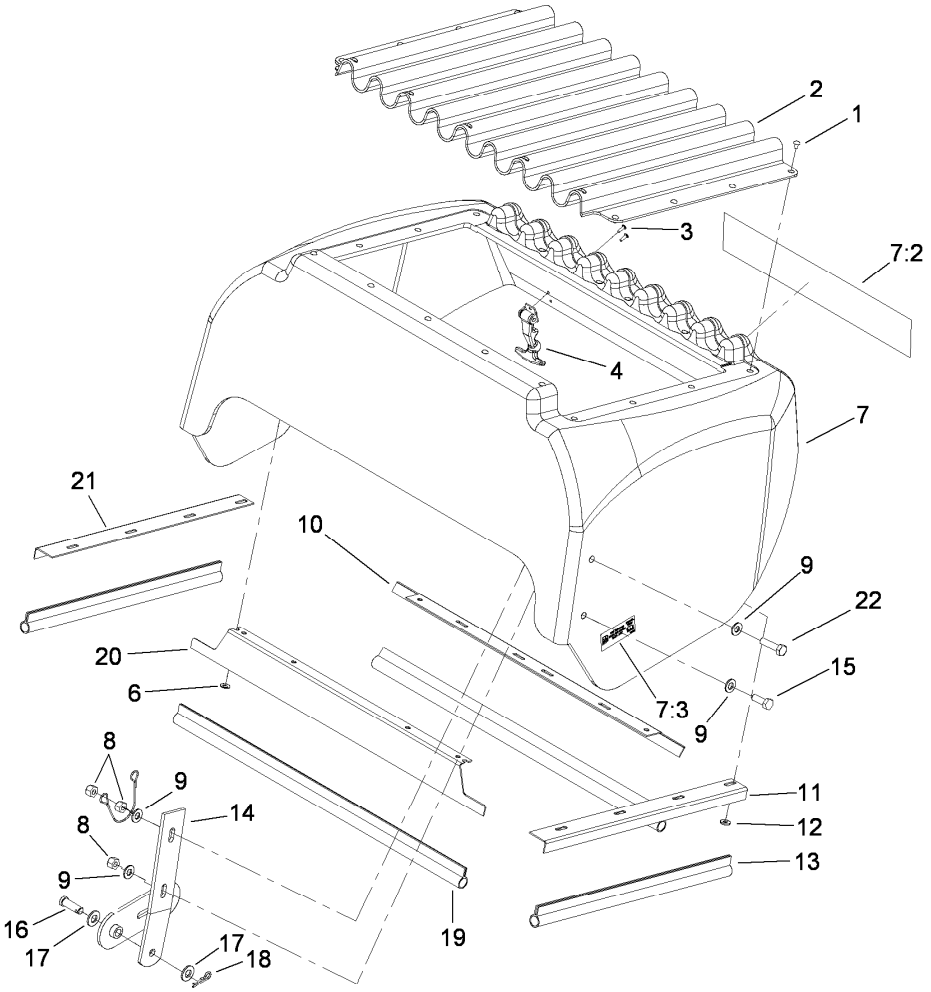
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Cooling System Assembly

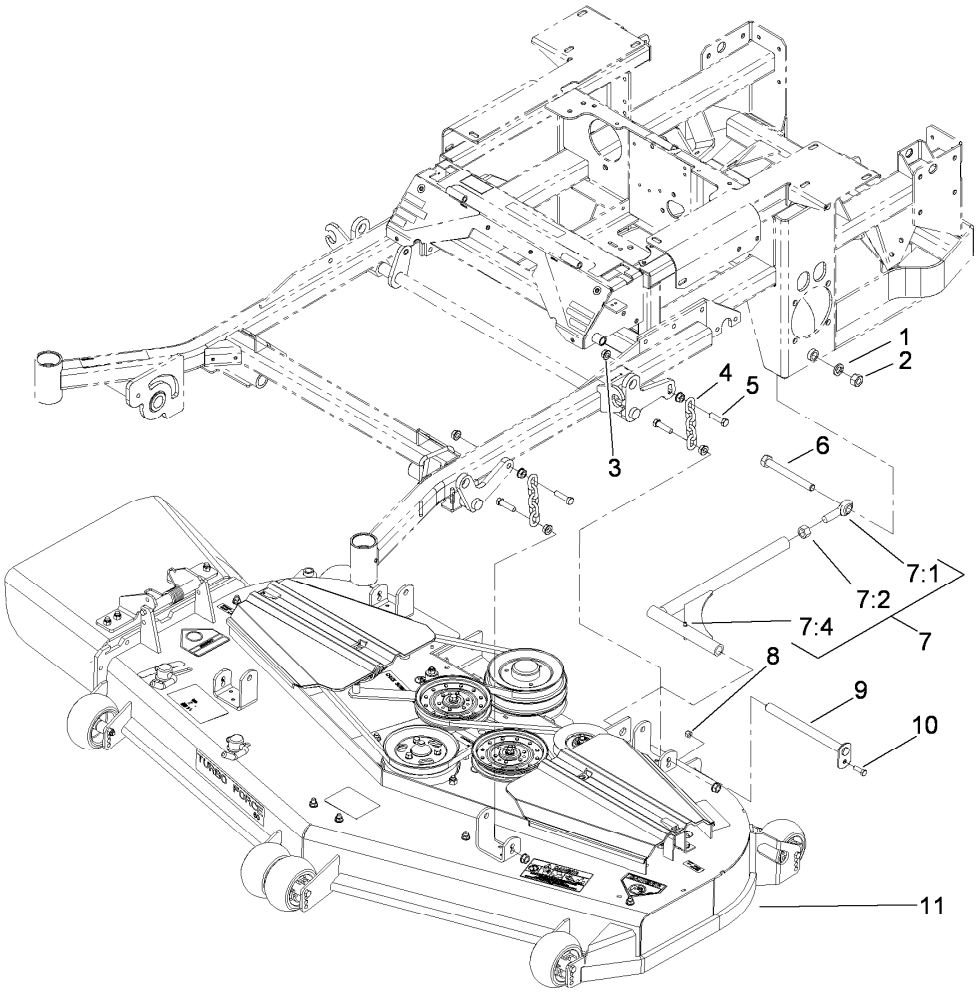
Ref.	Part Number	Qty.	Description
1	322-1	6	Screw-HH
2	3256-23	22	Washer-Flat
3	107-7658	1	Plate-Trim, Radiator
3:2	65-2690	2	Decal-Surface, Hot
3:3	104-2449	1	Decal-Coolant
4	1-643161	1	Cap-Radiator
5	3296-2	1	Nut-Lock, NI
6	1-803075	1	Screw-Head, Truss
7	103-1352	1	Shield-Fill Neck, Radiator
8	107-9889	1	Radiator
9	103-0898	1	Shroud-Cooling, Engine
10	322-3	16	Screw-HH
11	107-7717	1	Fan Mounting Plate ASM
11:2	1-643253	2	Decal-Fan, Radiator
12	32128-20	10	Nut-HF
13	103-0892	1	Fan
14	3296-42	1	Nut-Lock, NI
15	109-2670	1	Hose
16	1-513762	1	Clip-Loom
17	321-6	1	Screw-HH
18	103-0113	1	Clip-Loom
19	103-0922	1	Hose-Inlet, Engine

Ref.	Part Number	Qty.	Description
20	1-643164	1	Cap-Tank, Overflow
21	1-513645	1	Bushing-Valve, Fuel
22	321-2	2	Screw-HH
23	1-643259	1	Fitting-Elbow
24	1-643163	1	Tank-Overflow
25	109-2669	1	Hose
26	1-633989	4	Clamp-Hose
27	103-2505	1	Hose-Outlet, Engine
28	103-0086-03	1	Mount-Motor, Fan
29	103-4986	1	Bracket-Deflector, Air
30	322-14	2	Screw-HH
31	3256-3	4	Washer-Flat
32	103-5223	2	Spacer
33	1-513296	2	Spring-Indicator, Reverse
34	3296-29	4	Nut-Lock, NI
35	107-9853	2	Lanyard
36	1-303287	3	Tie-Cable
37	3245-44	1	Screw-Set
38	909848	1	Screw-Set
39	322-6	2	Screw-HH
40	1-303335	2	Tie-Plastic



Hood Assembly

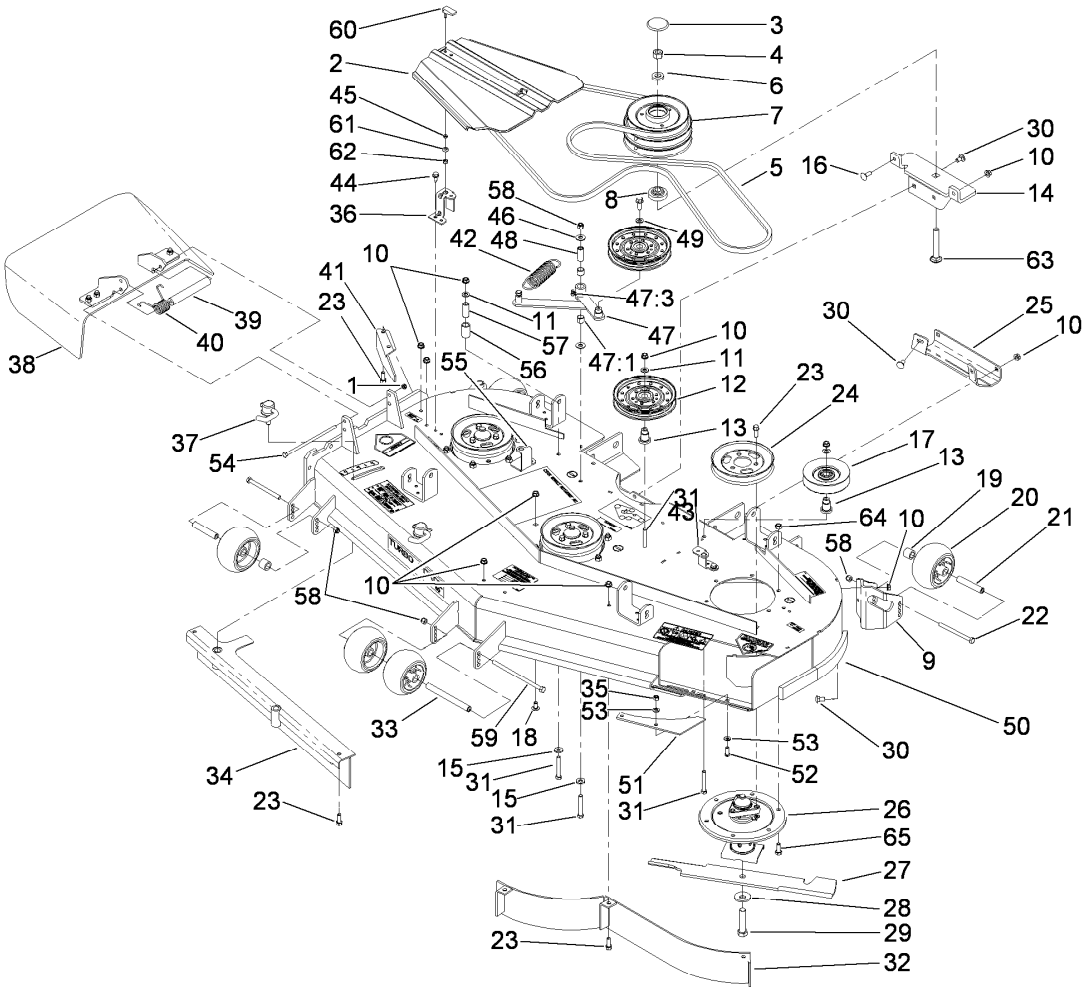
Ref.	*Part Number*	*Qty.*	*Description*
1	1-803072	17	Rivet
2	1-633864-03	1	Screen-Radiator
3	923786	4	Rivet
4	1-643188	2	Latch-Rubber
6	1-303435	5	Washer-Spring
7	115-3560	1	Hood ASM
7:2	107-7674	1	Decal
7:3	114-9600	2	Decal-Low Sulfur
8	3296-29	6	Nut-Lock, NI
9	3256-23	8	Washer-Flat
10	1-643108-03	1	Angle-Radiator, Bottom
11	1-643105-03	1	Angle-Radiator, LH
12	3256-14	12	Washer-Flat
13	1-643186	2	Seal-Trim
14	1-633885-03	2	Plate-Hinge, Hood
15	322-4	2	Screw-HH
16	1-808285	2	Pin-Clevis
17	3256-24	4	Washer-Flat
18	1-806003	2	Pin-Cotter, Hair
19	1-643187	2	Seal-Trim
20	1-643107-03	1	Angle-Radiator, Top
21	1-643106-03	1	Angle-Radiator, RH
22	322-6	2	Screw-HH



Deck Connection Assembly

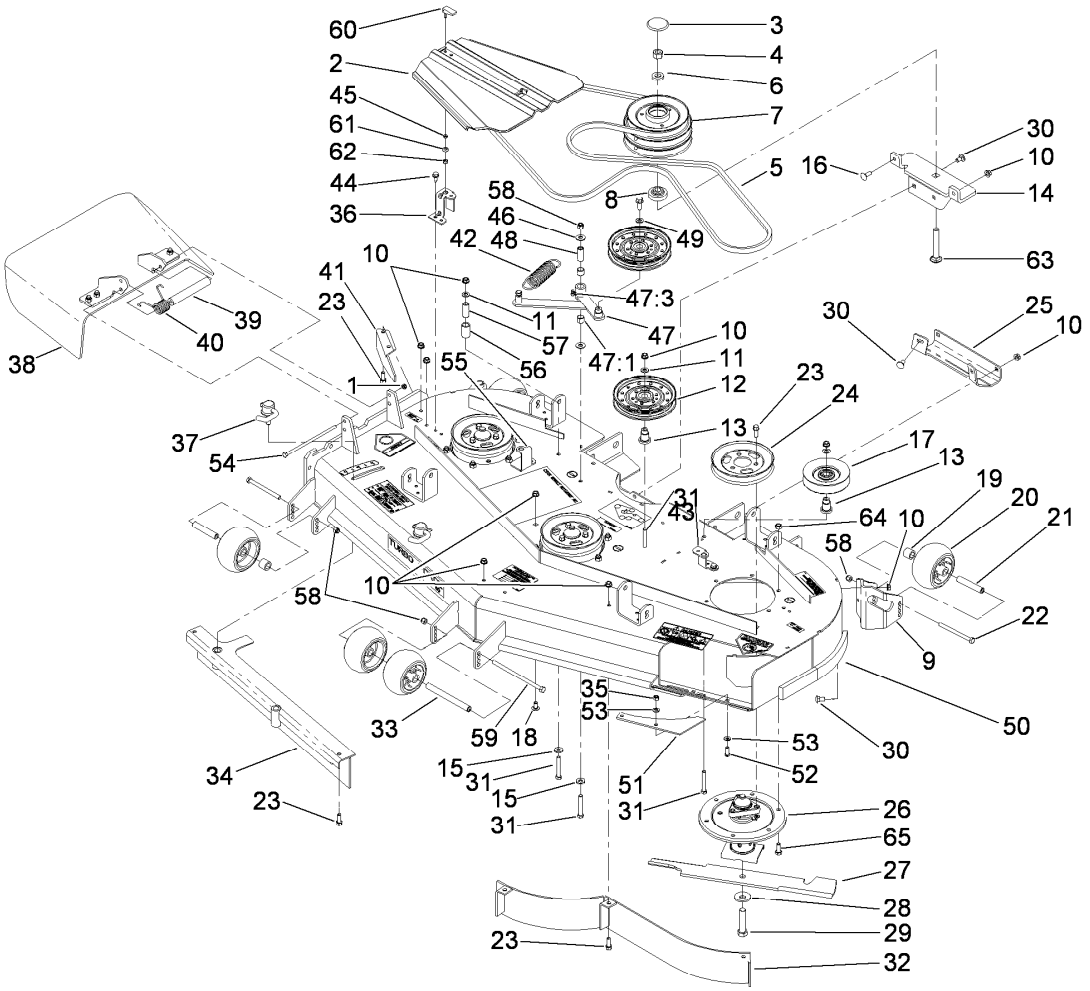
Ref.	*Part Number*	*Qty.*	*Description*
1	3253-8	2	Washer-Lock
2	3217-11	2	Nut-Hex
3	32128-37	16	Nut-HF
4	1-633447	4	Chain-Lift, Deck
5	103-1898	8	Screw-HH
6	327-28	2	Screw-HH
7	103-1356	2	Strut ASM
7:1	1-633029	1	Balljoint-Spherical
7:2	3219-6	1	Nut-Hex
7:4	109-1380	2	Fitting-Grease
8	3296-29	2	Nut-Lock, NI
9	1-632199-01	2	Pin-Strut
10	322-3	2	Screw-HH
11		1	Deck ASM ●

● Not serviced separately



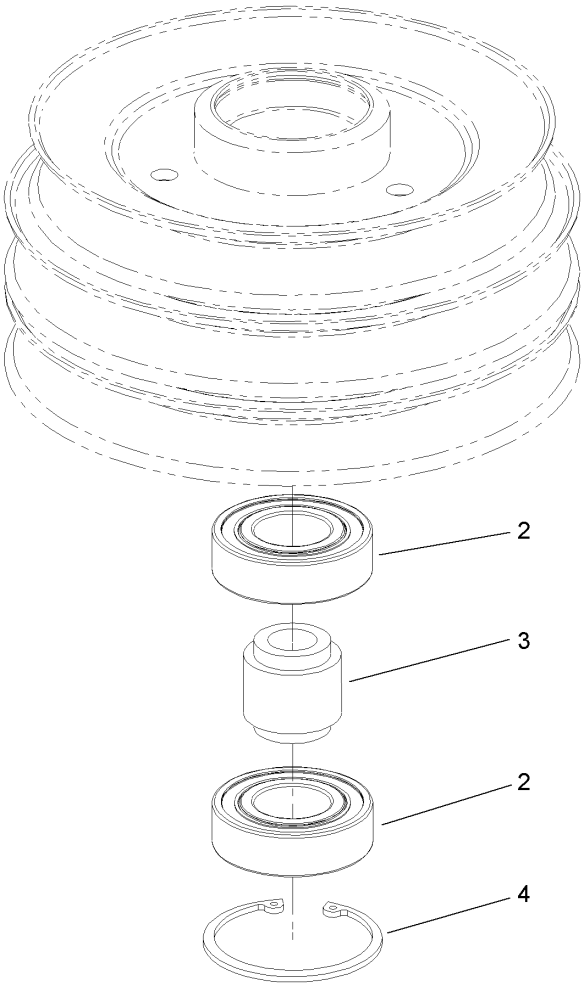
Deck Assembly

Ref.	Part Number	Qty.	Description
1	3296-47	1	Nut-Lock, NI
2	107-8536	2	Cover-Belt
3	112-8049	1	Cap-Plastic
4	3217-11	1	Nut-Hex
5	107-7667	1	Belt-V
6	105-0842	1	Spacer
7	114-0210	1	Pulley And Bearing ASM
8	112-8048	1	Spacer-Flanged
9	106-7354-01	1	Mount-Wheel, LH
10	3290-357	25	Nut-HHF, Whiz
11	3256-24	4	Washer-Flat
12	1-633109	2	Idler-Flat
13	106-3214	2	Mount-Pulley
14	110-5893-01	1	Mounting Bracket ASM
15	98-5975	2	Washer-Belleville
16	3231-2	2	Screw-CARR
17	1-603805	1	Pulley-Idler
18	3231-21	1	Screw-CARR
19	98-7913	4	Tube-Spacer
20	1-603299	6	Roller-Scalp, Anti
21	98-7912	4	Tube-Spanner
22	323-23	4	Screw-HH
23	92-1624	15	Screw-HWH
24	105-7735	3	Pulley
25	105-8792-01	1	Plate-Skid
26	108-7713	3	Spindle ASM
27	105-7718-03	3	Blade-Hi Flow
28	103-0865	3	Washer-Blade Bolt, Heavy
29	103-0862	3	Screw-Cap
30	3231-1	12	Screw-CARR
31	323-12	4	Screw-HH
32	105-7657-01	1	Baffle ASM
33	98-5967	1	Spacer-Wheel
34	105-7669-01	1	Baffle ASM
35	3296-29	2	Nut-Lock, NI
36	108-4121-01	2	Bracket-Cover
37	107-1664	2	Lever ASM
38	108-2792	1	Rubber Deflector ASM
39	105-4622	1	Spacer
40	108-4052	1	Spring-Torsion
41	106-3216-01	1	Baffle-Discharge
42	105-6992	1	Spring-Extension
43	108-2177-01	1	Bracket-Cover, Tall
44	32144-70	3	Screw-HWHTF
45	99-3058	2	Washer
46	3256-4	2	Washer-Flat
47	107-9868	1	Idler Arm ASM
47:1	103-4681	2	Sleeve-Bearing
47:3	302-40	1	Fitting-Grease
48	1-603044	1	Bushing
49	3234-11	1	Screw-HHF
50	117-3857	1	Deck Decal ASM
51	107-3137	1	Plate-Turbo
52	3274-104	2	Screw-HSBH
53	1-303334	4	Washer-Spring
54	322-50	1	Screw-HH



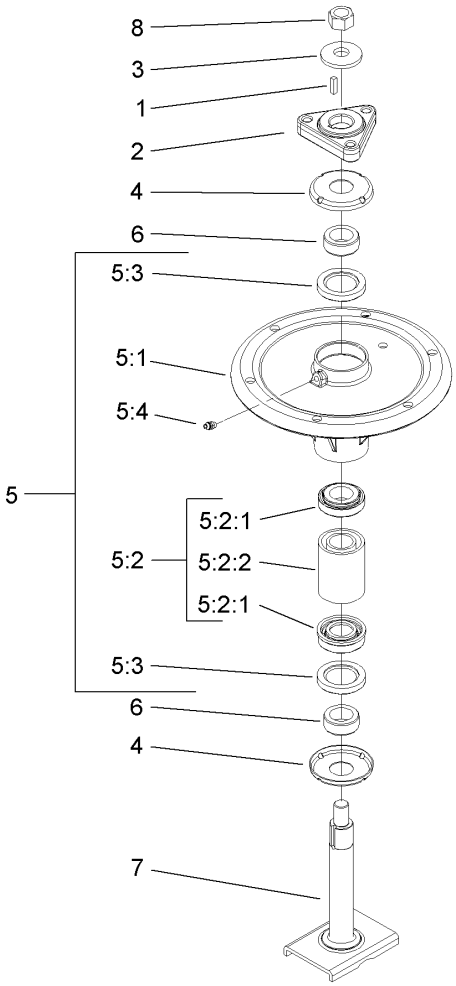
Deck Assembly (continued)

Ref.	Part Number	Qty.	Description
55	108-4122-01	1	Bracket-Cover
56	112-8051	1	Spacer-Rubber
57	80-7710	1	Spacer-Pivot, Idler
58	3296-39	6	Nut-Lock, NI
59	108-5388	1	Screw-HH
60	106-6777	2	Handle-Latch, Swell
61	106-6778	2	Bushing-Latch, Swell
62	1-804254	2	Nut-Lock, HH
63	112-8046	1	Bolt-Carriage
64	33025-00	18	Nut-Lock, NI
65	33115-025	18	Screw-HH



Pully and Bearing Assembly No. 114-0210

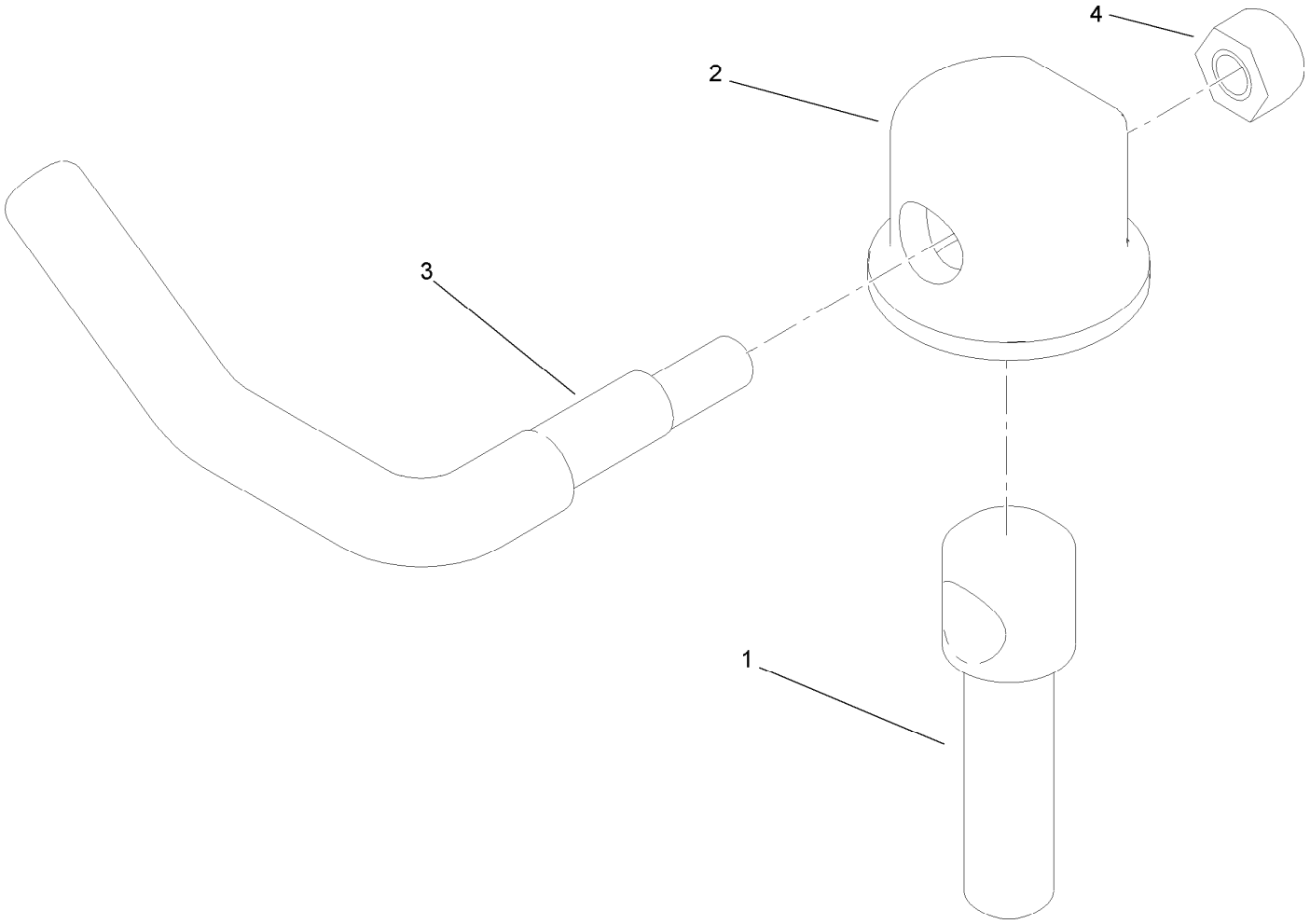
Ref.	*Part Number*	*Qty.*	*Description*
2	104-6325	2	Bearing-Ball
3	112-8047	1	Spacer-Bearing
4	32120-8	1	Ring-Snap



Spindle Assembly No. 108-7713

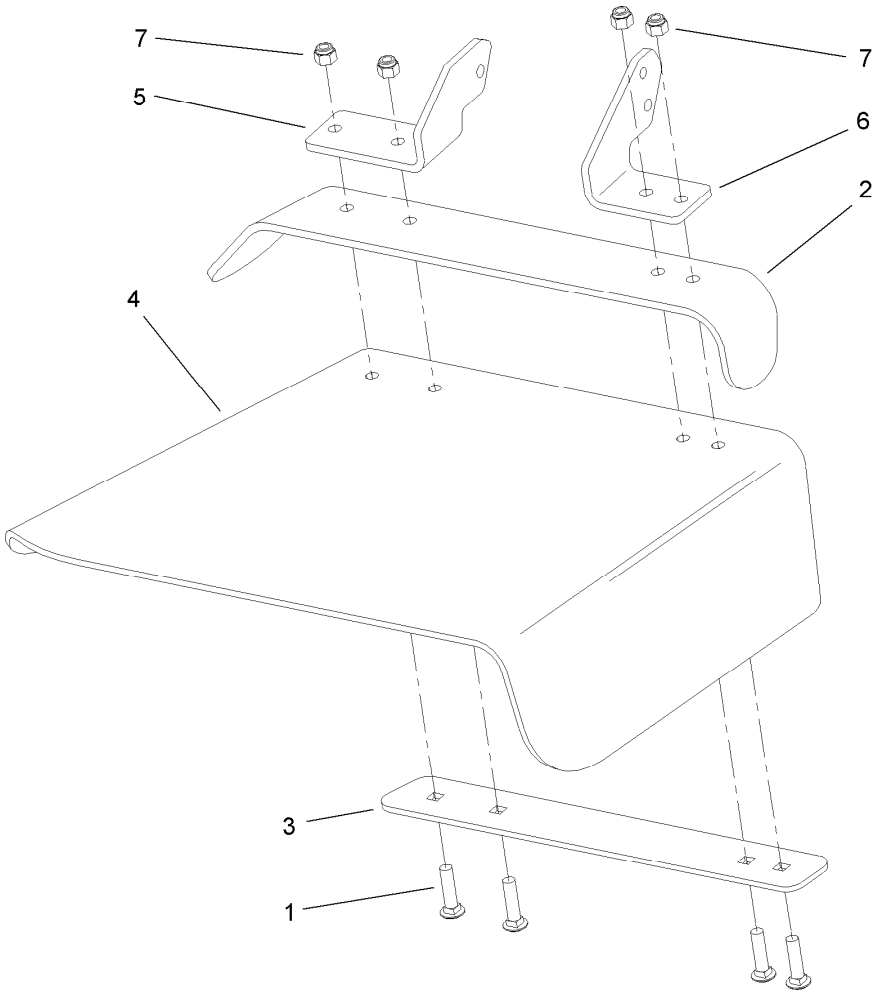
Ref.	*Part Number*	*Qty.*	*Description*
1	10-8040	1	Key-Square
2	106-3277	1	Hub-Pulley
3	103-0865	1	Washer-Blade Bolt, Heavy
4	106-3204	2	Shield-Bearing
5		1	Spindle Bearing ASM ●
5:1	106-3211	1	Housing-Spindle
5:2	108-7711	1	Bearing ASM
5:2:1	108-7710	1	Bearing ASM
5:2:2	106-3206	1	Spacer (Matched Set)
5:3	253-133	2	Seal-Oil
5:4	302-5	1	Fitting-Grease
6	106-3218	2	Spacer-Seal
7	106-3233	1	Spindle Shaft ASM
8	3219-6	1	Nut-Hex

● Not serviced separately



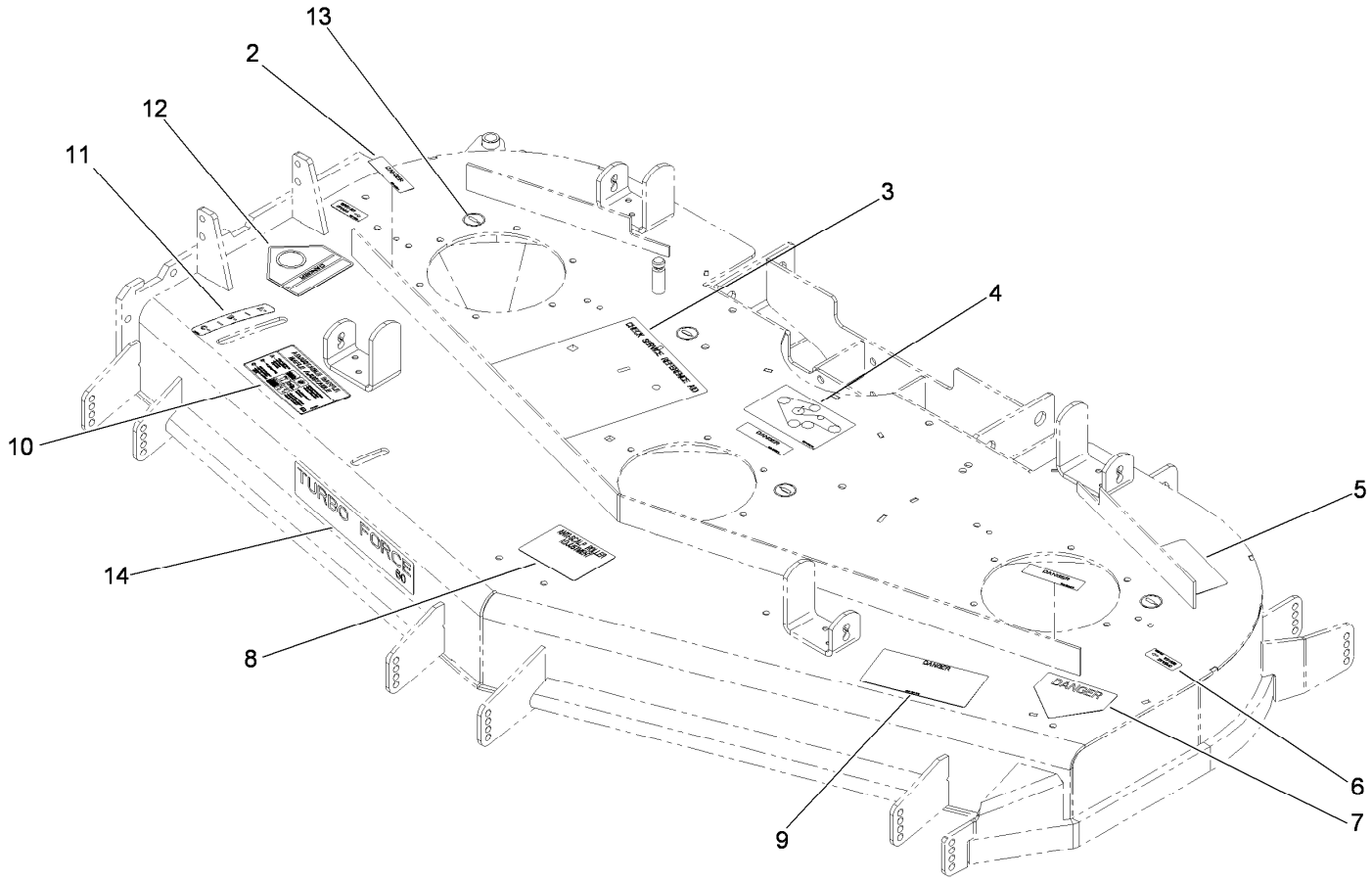
Lever Assembly No. 107-1664

Ref.	*Part Number*	*Qty.*	*Description*
1	106-3239	1	Screw-Lock
2	107-1644	1	Cap-Lock
3	106-3241	1	Lever-Lock
4	3296-29	1	Nut-Lock, NI



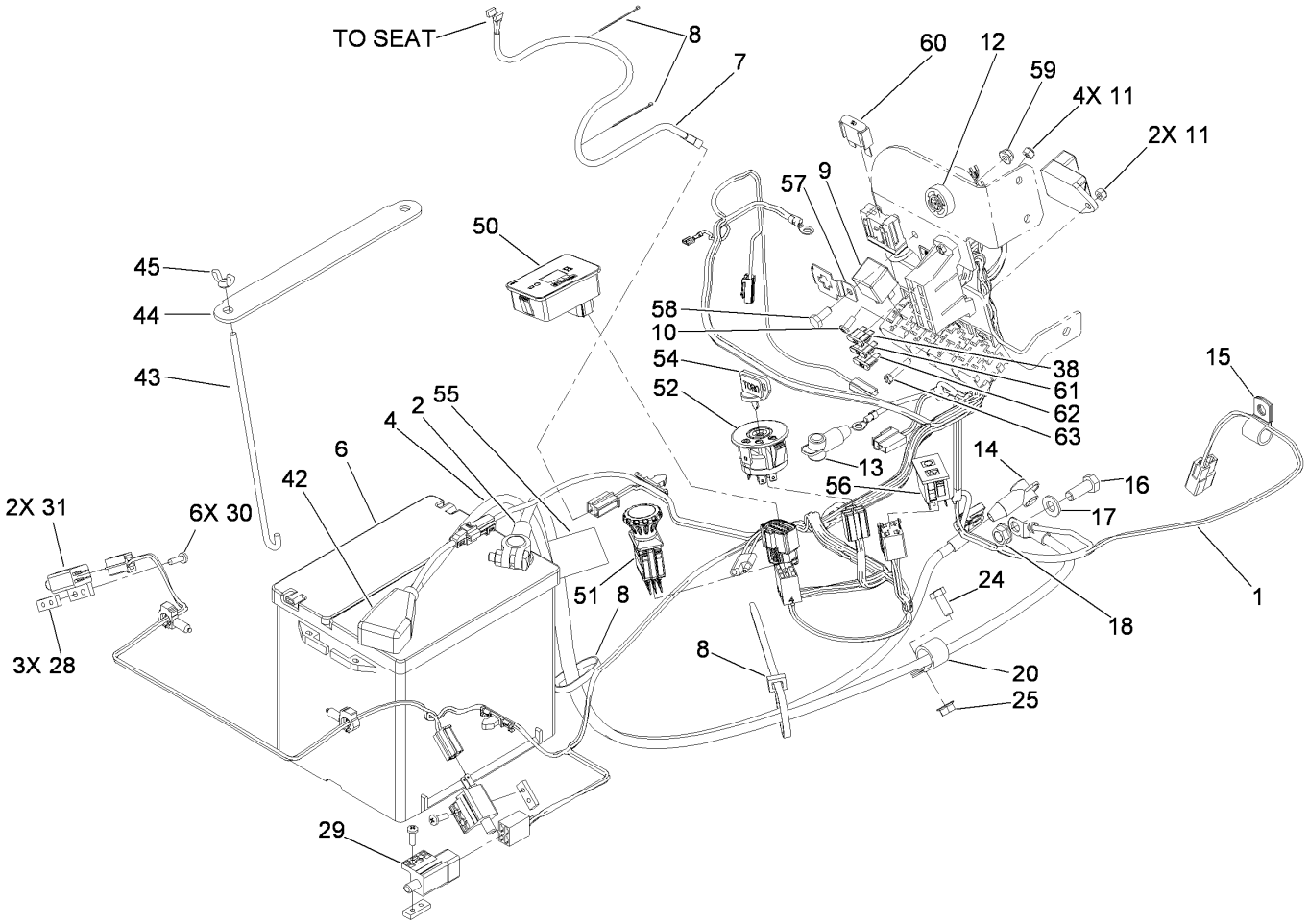
Rubber Deflector Assembly No. 108-2792

Ref.	*Part Number*	*Qty.*	*Description*
1	3231-4	4	Screw-CARR
2	106-3246-01	1	Deflector
3	106-3248-03	1	Strap-Discharge
4	108-5029	1	Deflector-Rubber
5	108-4059-01	1	Plate-Hinge, Rear
6	106-3253-01	1	Plate-Hinge, Front
7	3296-39	4	Nut-Lock, NI



Deck Decal Assembly No. 117-3857

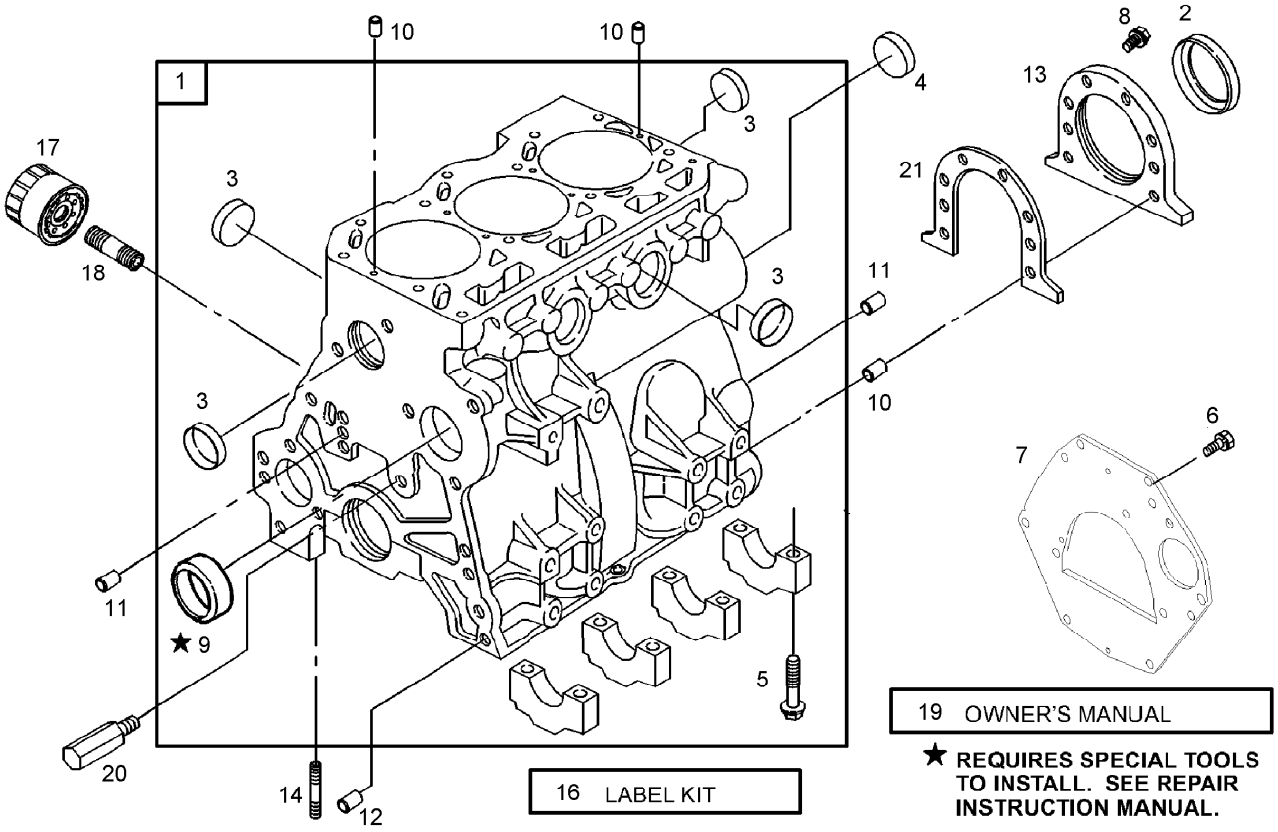
Ref.	*Part Number*	*Qty.*	*Description*
2	98-5954	3	Decal-Cover, Missing
3	107-9863	1	Decal-Check, Service
4	107-7673	1	Decal-Routing, Belt
5	68-8340	1	Decal-Torque
6	107-1613	2	Decal-Grease
7	1-403005	1	Decal-Danger
8	105-7798	1	Decal-Scalp, Anti
9	66-1340	1	Decal-Danger, Thrown Object
10	110-2068	1	Decal-Adjustment, Baffle
11	110-2067	1	Decal-Setting, Baffle
12	54-9220	1	Decal-Danger
13	58-6520	4	Decal-Grease
14	107-1619	1	Decal



Electrical Assembly

Ref.	Part Number	Qty.	Description
1	117-3817	1	Harness-Electrical
2	117-3851	1	Cable-Battery, Negative
4	103-1160	1	Cable-Starter
6	106-5187	1	Battery
7	103-1227	1	Harness-Wiring, Seat
8	1-303335	4	Tie-Plastic
9	1-643275	4	Relay
10	1-803071	4	Screw
11	3296-2	6	Nut-Lock, NI
12	103-0205	1	Alarm-Tone, Dual
13	1-643178	1	Cap-Insulator, Red
14	103-1420	1	Insulator-Starter
15	1-603727	1	Clip-Loom
16	323-6	1	Screw-HH
17	3256-24	1	Washer-Flat
18	3290-357	1	Nut-HHF, Whiz
20	1-633396	1	Clip-Loom
24	322-3	1	Screw-HH
25	32128-20	1	Nut-HF
28	1-633181	3	Plate-Tapped
29	1-633111	1	Switch

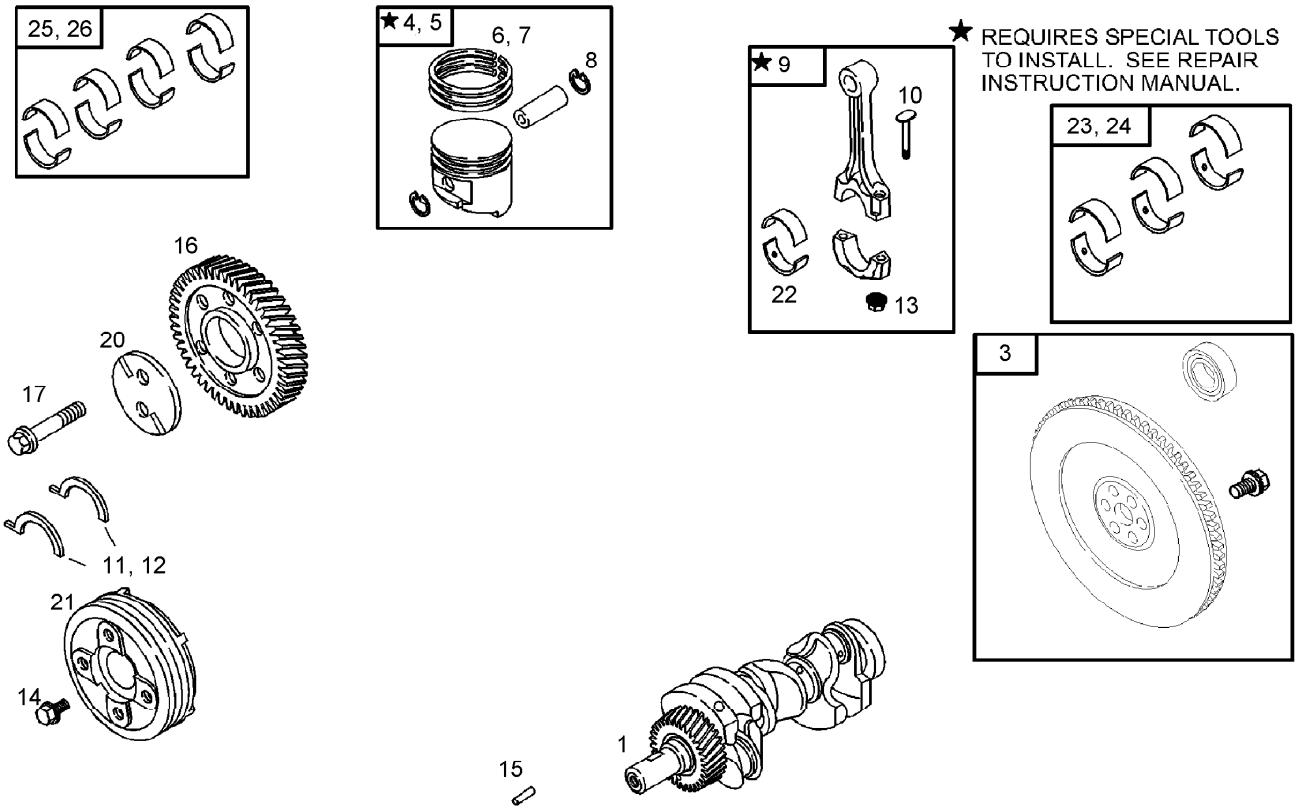
Ref.	Part Number	Qty.	Description
30	3290-500	6	Screw-PPH
31	1-513051	2	Switch-Open, Normally
38	1-816001	1	Fuse-Blade Type, 20 Amp
42	103-1340	1	Insulator-Terminal, Battery
43	103-1312	2	Bolt-Holddown
44	103-1311-03	1	Holddown-Battery
45	1-543792	2	Wingnut
50	112-8650	1	Hour Meter ASM
51	116-0124	1	Switch-PTO, 10A
52	116-0050	1	Switch-Ignition
54	63-8360	2	Key-Ignition
55	107-9309	1	Decal-Instructions, Charging
56	100-8071	1	Lamp-Warning
57	114-5502	1	Clip-Fuse
58	321-3	1	Screw-HH
59	104-7201	1	Nut-HF
60	94-8002	1	Fuse-Blade, 50 Amp
61	218-578	1	Fuse-Blade, 10 Amp
62	109103	1	Fuse-Blade, 30 Amp
63	32105-12	2	Screw



Assemblies include all parts shown in frames.

Cylinder Assembly

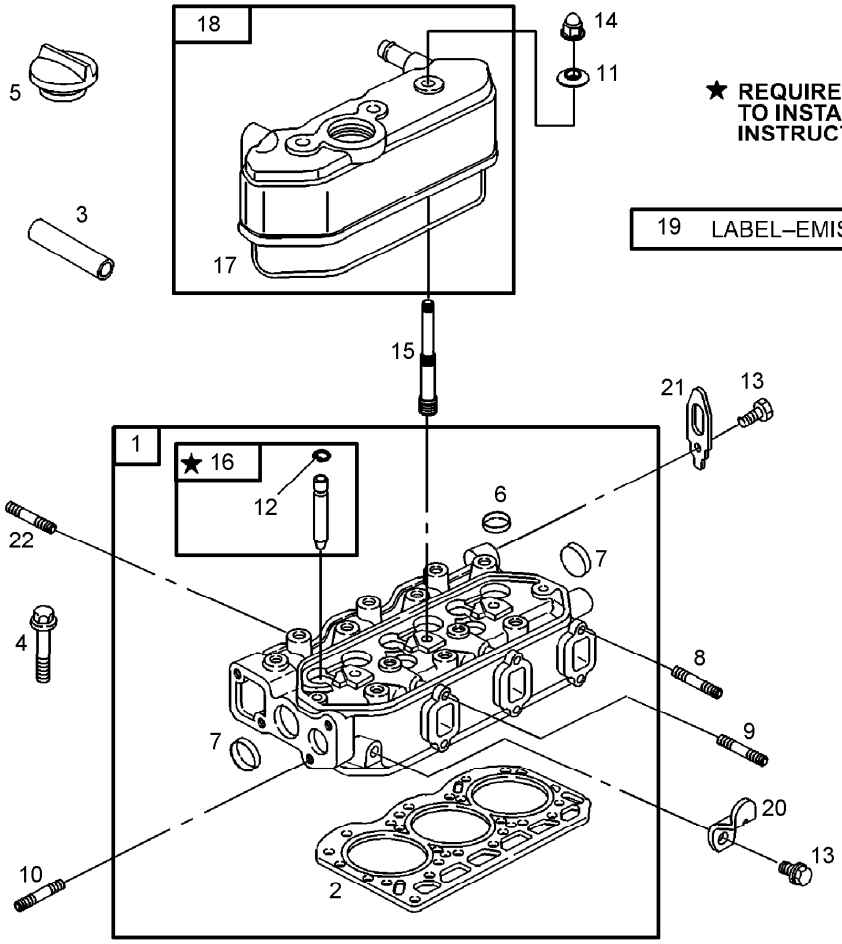
Ref.	*Part Number*	*Qty.*	*Description*
1	107-9891	1	Cylinder ASM
2	99-9003	1	Seal-Oil
3	99-9008	1	Plug-Welch
4	107-9892	1	Plug-Welch (Cam)
5	99-9006	1	Screw-Hex
6	99-9005	1	Screw-Hex
7	107-9893	1	Plate-End, Rear
8	99-9004	1	Screw-Hex
9	99-9002	1	Bushing
10	99-9012	1	Pin-Locating
11	99-9013	1	Pin-Locating
12	99-9014	1	Pin-Locating
13	99-9022	1	Retainer-Seal
14	99-9007	1	Stud-Metric
16	107-9894	1	Kit-Label
17	99-9017	1	Filter-Oil
18	105-9337	1	Adapter-Filter, Oil
19	103-1384	1	Manual-Engine
20	99-9020	1	Nozzle-Oil
21	99-9021	1	Gasket-Retainer



Assemblies include all parts shown in frames.

Crankshaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	105-9339	1	Crankshaft
3	99-9024	1	Flywheel
4	107-9895	1	Piston ASM
5	107-9896	1	Piston ASM (Oversize)
6	105-9340	1	Ring Set
7	99-9269	1	Ring Set (.010 Oversized)
8	99-9607	1	Lock-Pin, Piston
9	99-9608	1	Rod-Connecting
10	99-9030	1	Screw
11	99-9035	1	Shim-Endplay
12	99-9036	1	Shim-Endplay (.005 Oversized)
13	99-9034	1	Nut-Hex
14	107-9897	1	Screw-Hex
15	99-9037	1	Pin-Locating
16	99-9609	1	Gear-Drive
17	99-9032	1	Screw-Hex
20	99-9040	1	Plate-Gear, Idler
21	99-9041	1	Pulley-Crankshaft
22	99-9042	1	Bearing-Rod
23	99-9043	1	Rod Bearing Set
24	99-9044	1	Rod Bearing Set (.010 Undersized)
25	99-9045	1	Main Bearing Set (Set Of 8)
26	99-9046	1	Main Bearing Set (.010 Undersized)



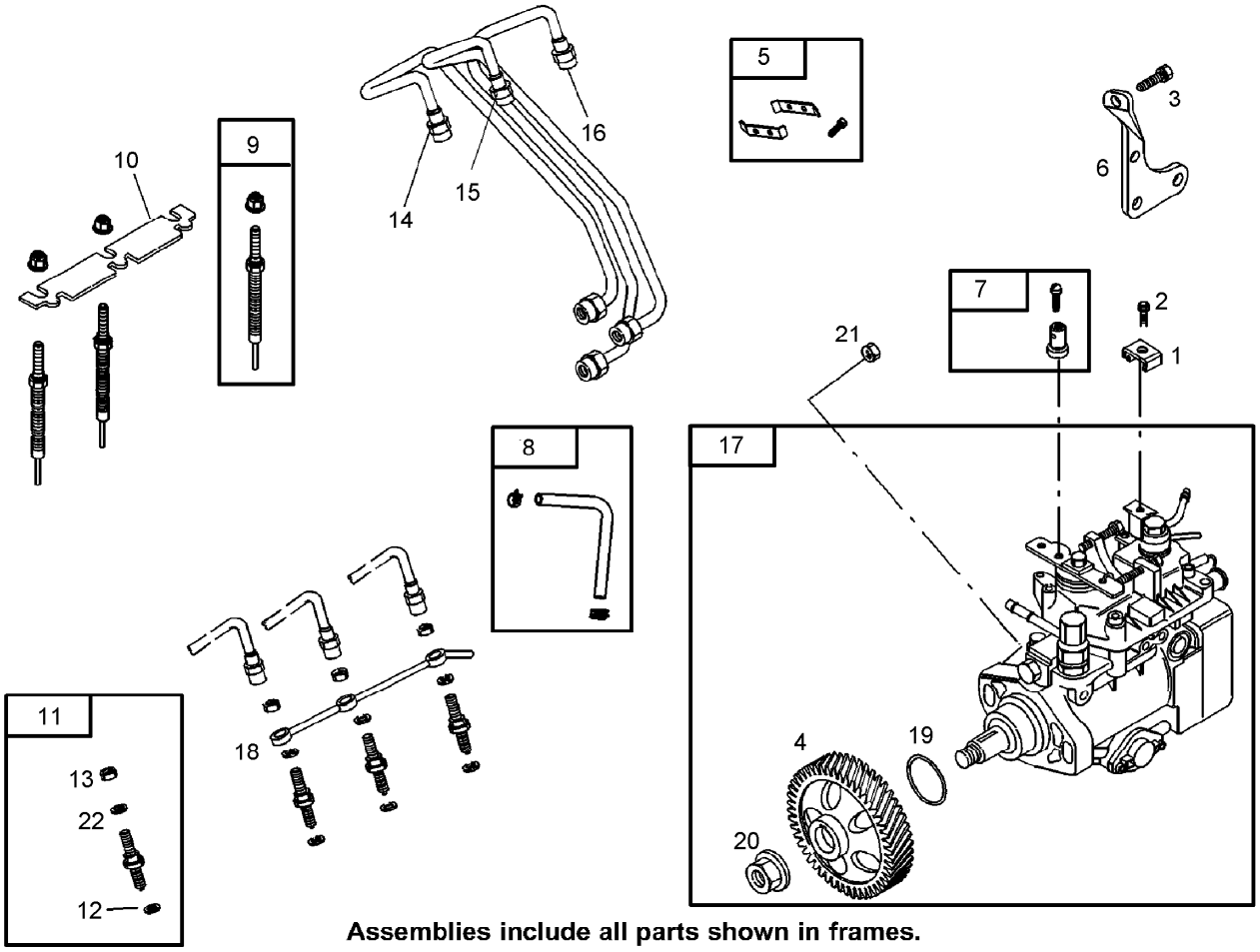
★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

19 LABEL–EMISSION

Assemblies include all parts shown in frames.

Cylinder Head Assembly

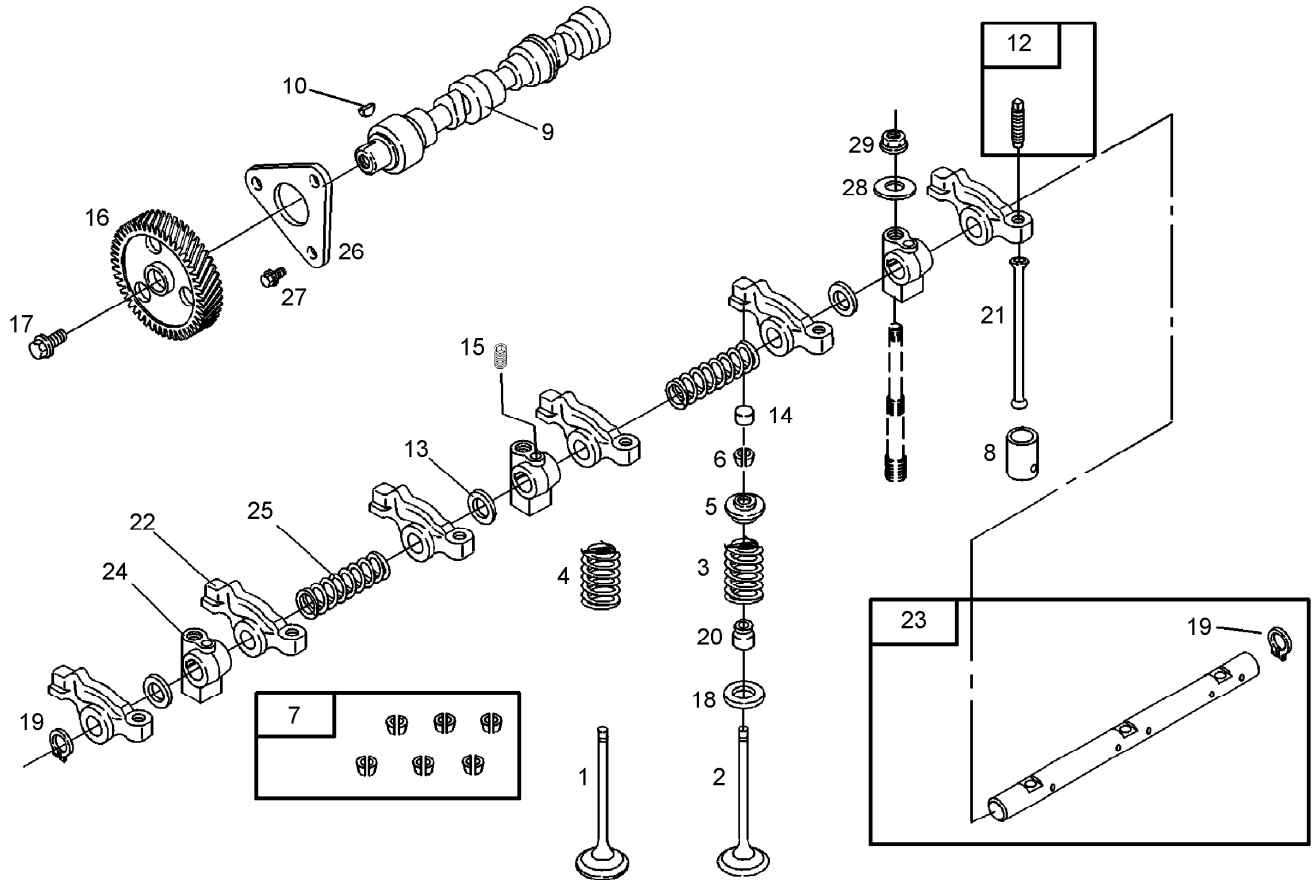
Ref.	*Part Number*	*Qty.*	*Description*
1	105-9341	1	Head-Cylinder
2	107-9898	1	Gasket-Head, Cylinder
3	105-9342	1	Tube-Breather
4	99-9614	1	Screw-Metric
5	99-9052	1	Cap-Fill, Oil
6	99-9060	1	Plug-Welch
7	99-9008	1	Plug-Welch
8	99-9058	1	Stud-Metric
9	99-9059	1	Stud-Metric
10	99-9057	1	Stud-Metric
11	99-9063	1	Washer-Seal
12	99-9067	1	Retainer
13	99-9054	1	Screw-Hex
14	99-9061	1	Nut-Hex, Metric
15	99-9101	1	Stud-Arm, Rocker
16	99-9070	1	Bushing-Guide
17	99-9073	1	Gasket-Cover, Rocker
18	100-6402	1	Cover-Rocker
19	107-9899	1	Emmision Label Kit
20	99-9076	1	Bracket-Lifting
21	99-9077	1	Bracket-Lifting
22	99-9055	1	Stud-Metric



Assemblies include all parts shown in frames.

Injection Pump Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	99-9622	1	Clamp-Casing
2	99-9056	1	Screw-Hex
3	99-9616	1	Screw-Hex
4	99-9689	1	Gear-Drive
5	99-9625	1	Clamp
6	99-9626	1	Bracket-Support
7	99-9628	1	Clamp-Swivel
8	99-9629	1	Hose / Clamp ASM
9	99-9630	1	Plug-Glow
10	99-9631	1	Strap-Plug, Glow
11	99-9632	1	Nozzle-Injector
12	99-9633	1	Seat-Injector
13	105-9345	1	Nut
14	99-9690	1	Pipe-Injector, No. 1
15	99-9634	1	Pipe-Injector, No. 2
16	99-9635	1	Pipe-Injector, No. 3
17	105-9334	1	Pump-Injection
18	99-9637	1	Pipe-Return, Fuel
19	99-9618	1	O-Ring
20	99-9620	1	Nut-Hex, Metric
21	99-9619	1	Nut-Hex, Metric
22	105-9343	1	Seat-Injector

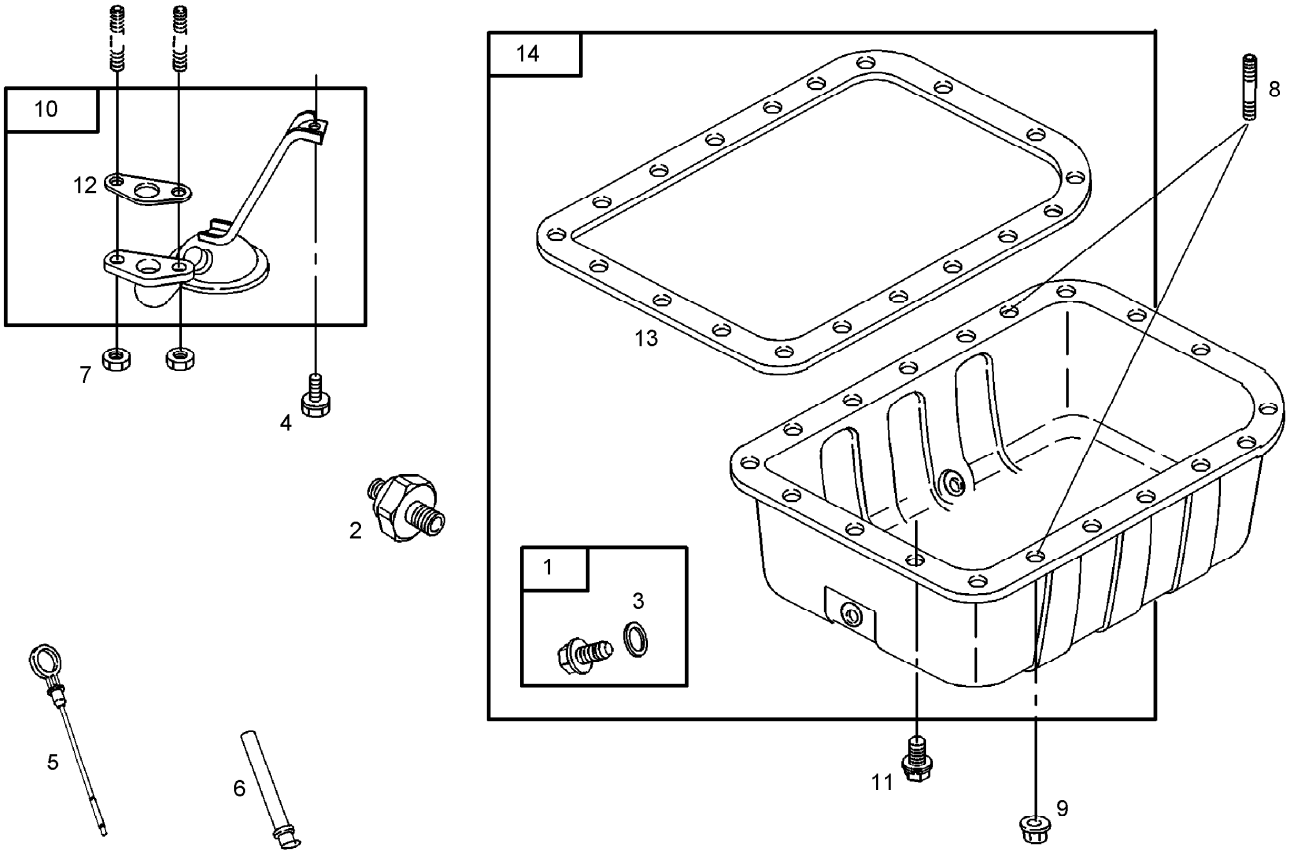


Assemblies include all parts shown in frames.

Camshaft Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	99-9638	1	Valve-Exhaust
2	99-9639	1	Valve-Intake
3	99-9640	1	Spring-Valve
4	99-9640	1	Spring-Valve
5	99-9084	1	Retainer-Valve
6	99-9086	1	Keeper-Valve (Set)
7	99-9087	1	*obs* Keeper-Valve (Set Of 6)
8	99-9088	1	Tappet-Valve
9	99-9097	1	Shaft-Cam
10	99-9675	1	Key-Timing
12	99-9092	1	Adjuster-Arm, Rocker
13	99-9093	1	Washer-Spacer
14	99-9094	1	Cap-Valve
15	99-9090	1	Screw-Metric

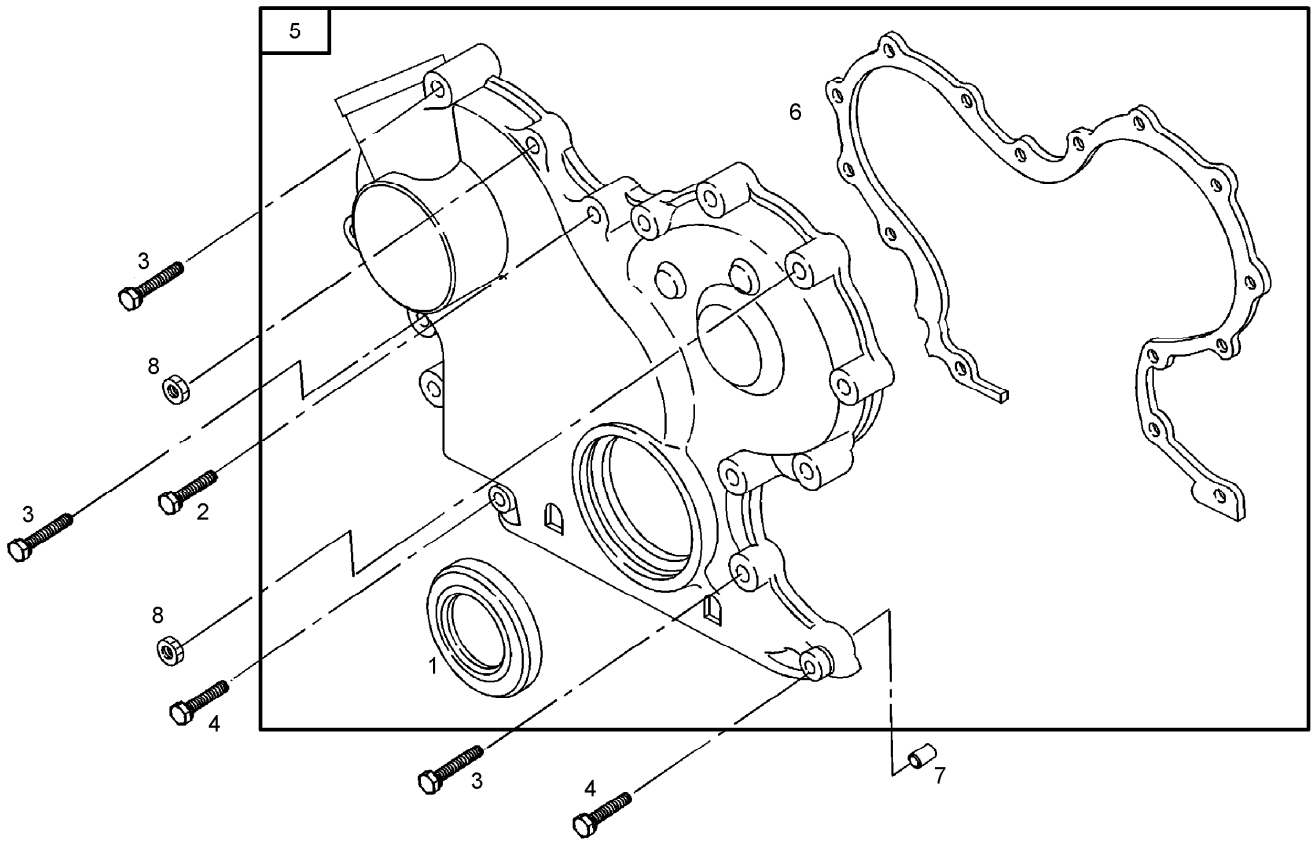
Ref.	*Part Number*	*Qty.*	*Description*
16	99-9641	1	Gear-Cam
17	99-9085	1	Screw-Metric
18	99-9096	1	Seat-Spring, Valve
19	99-9099	1	Retainer
20	99-9643	1	Seal-Valve
21	99-9103	1	Rod-Push
22	99-9104	1	Arm-Rocker
23	99-9106	1	Shaft-Arm, Rocker
24	99-9107	1	Support-Arm, Rocker
25	99-9108	1	Spring-Shaft, Rocker
26	99-9109	1	Retainer-Camshaft
27	99-9083	1	Screw-Hex
28	99-9079	1	Washer-Flat
29	99-9091	1	Nut-Hex, Metric



Assemblies include all parts shown in frames.

Oil Pan Assembly

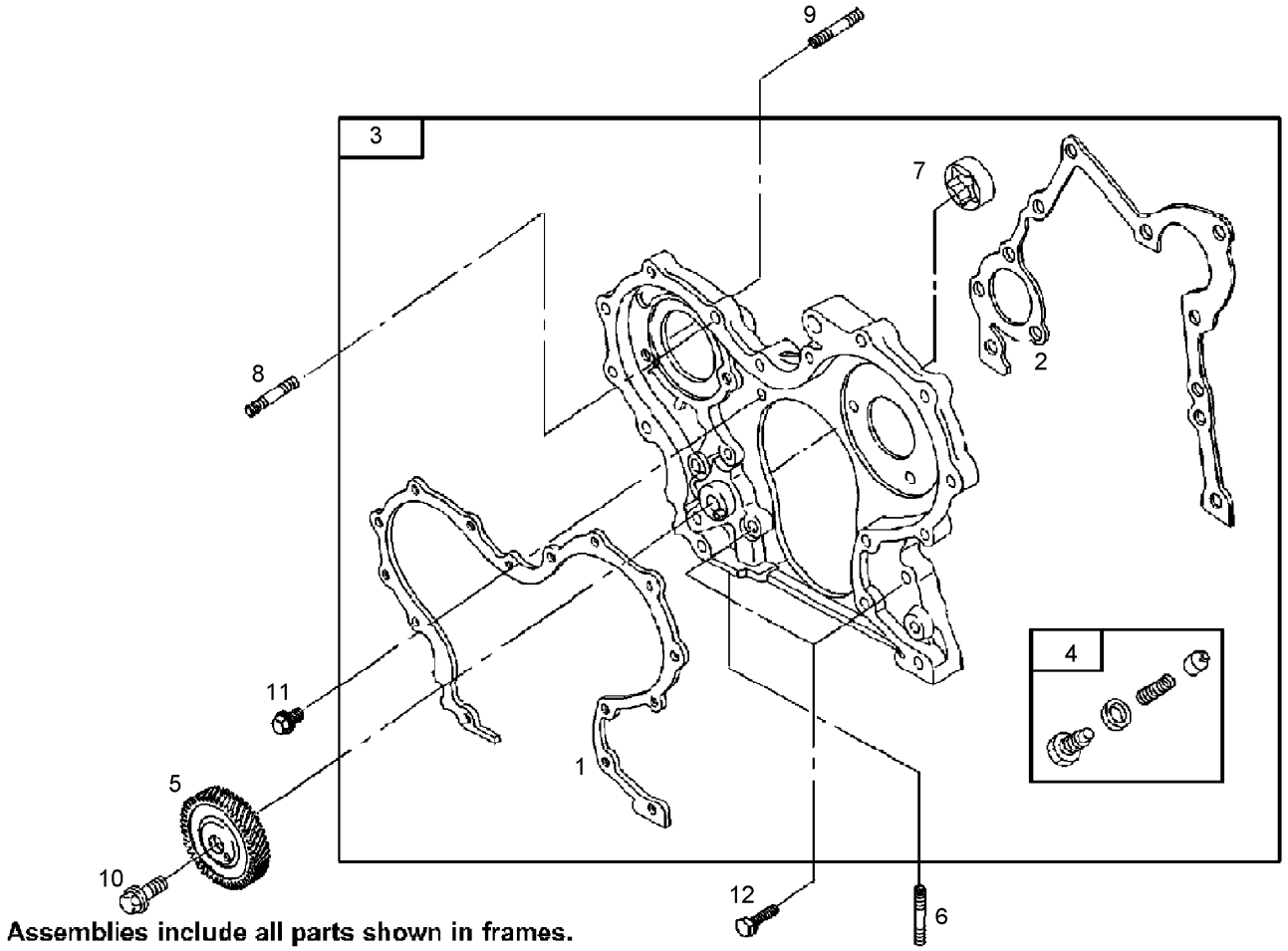
Ref.	*Part Number*	*Qty.*	*Description*
1	99-9247	1	Plug-Drain, Oil
2	107-9908	1	Switch-Pressure, Oil
3	99-9249	1	Washer-Seal
4	99-9111	1	Screw-Hex
5	110-2597	1	Dipstick
6	99-9118	1	Tube-Dipstick
7	99-9114	1	Nut-Hex, Metric
8	99-9112	1	Stud-Metric
9	99-9113	1	Nut-Hex, Metric
10	99-9116	1	Screen-Pump, Oil
11	99-9111	1	Screw-Hex
12	99-9120	1	Gasket-Strainer, Oil
13	99-9121	1	Gasket-Pan, Oil
14	99-9241	1	Pan-Oil



Assemblies include all parts shown in frames.

Gear Cover Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	115-2318	1	Gasket Kit
2	99-9651	1	Screw-Hex
3	99-9128	1	Screw-Hex
4	99-9129	1	Screw-Hex
5	99-9652	1	Gear Cover ASM
6	99-9653	1	Gasket-Cover, Gear
7	99-9014	1	Pin-Locating
8	99-9114	1	Nut-Hex, Metric

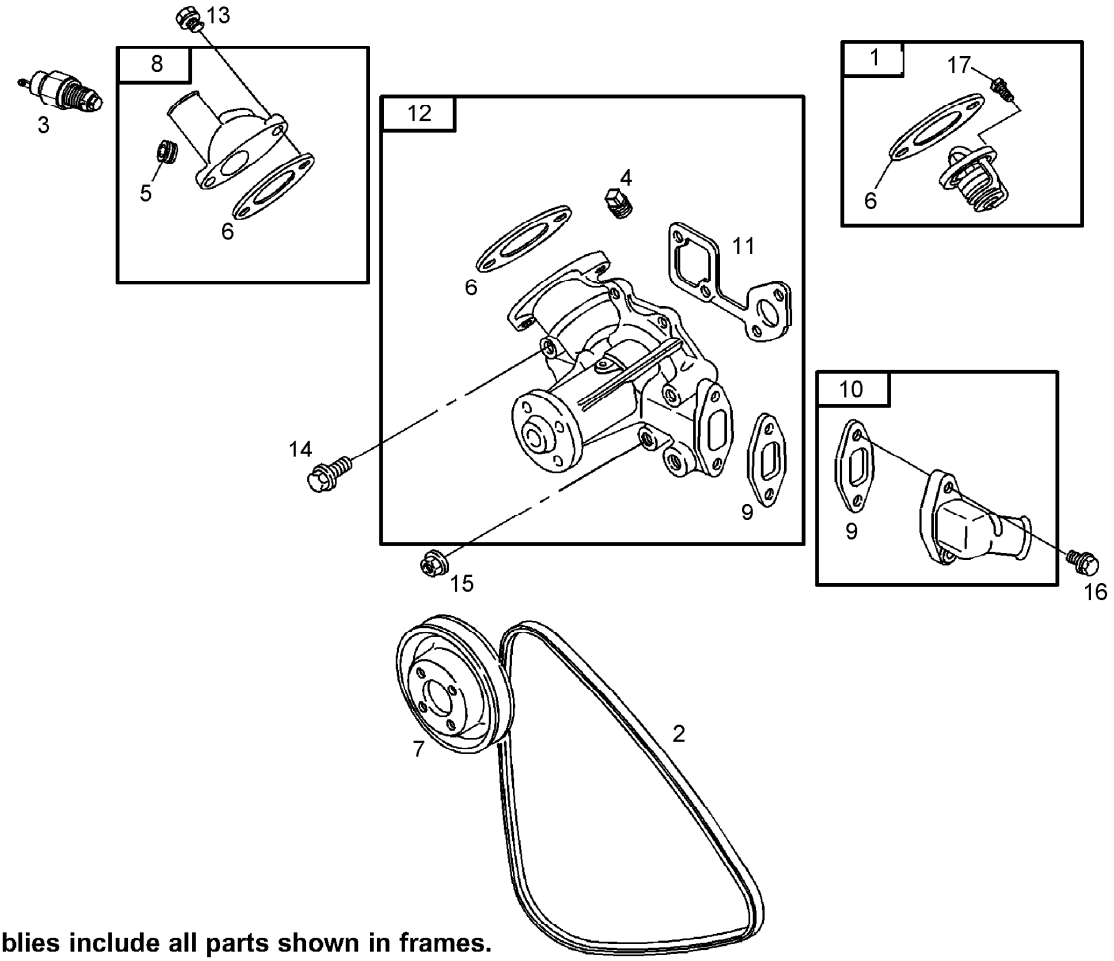


Assemblies include all parts shown in frames.

Gear Housing Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	99-9653	1	Gasket-Cover, Gear
2	99-9136	1	Gasket-Cover, Gear Reduction
3	99-9655	1	Housing-Gear
4	99-9142	1	Valve-Relief, Oil
5	99-9656	1	Gear-Drive
6	99-9007	1	Stud-Metric
7		1	Gerotor●
8	99-9137	1	Stud-Metric
9	99-9654	1	Stud-Metric
10	99-9135	1	Screw-Hex
11	99-9134	1	Screw-Hex
12	99-9133	1	Screw-Hex

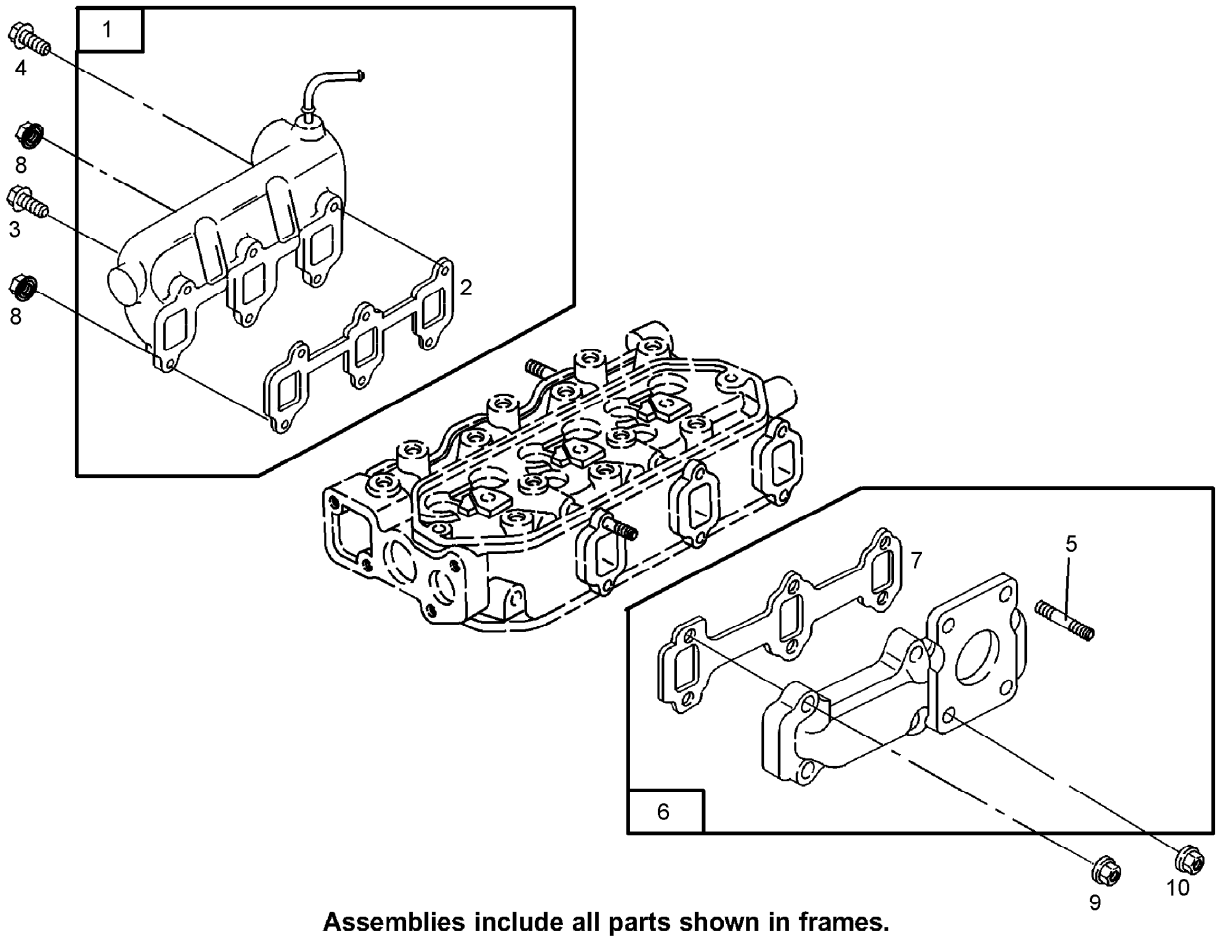
● Not serviced separately



Assemblies include all parts shown in frames.

Water Pump Assembly

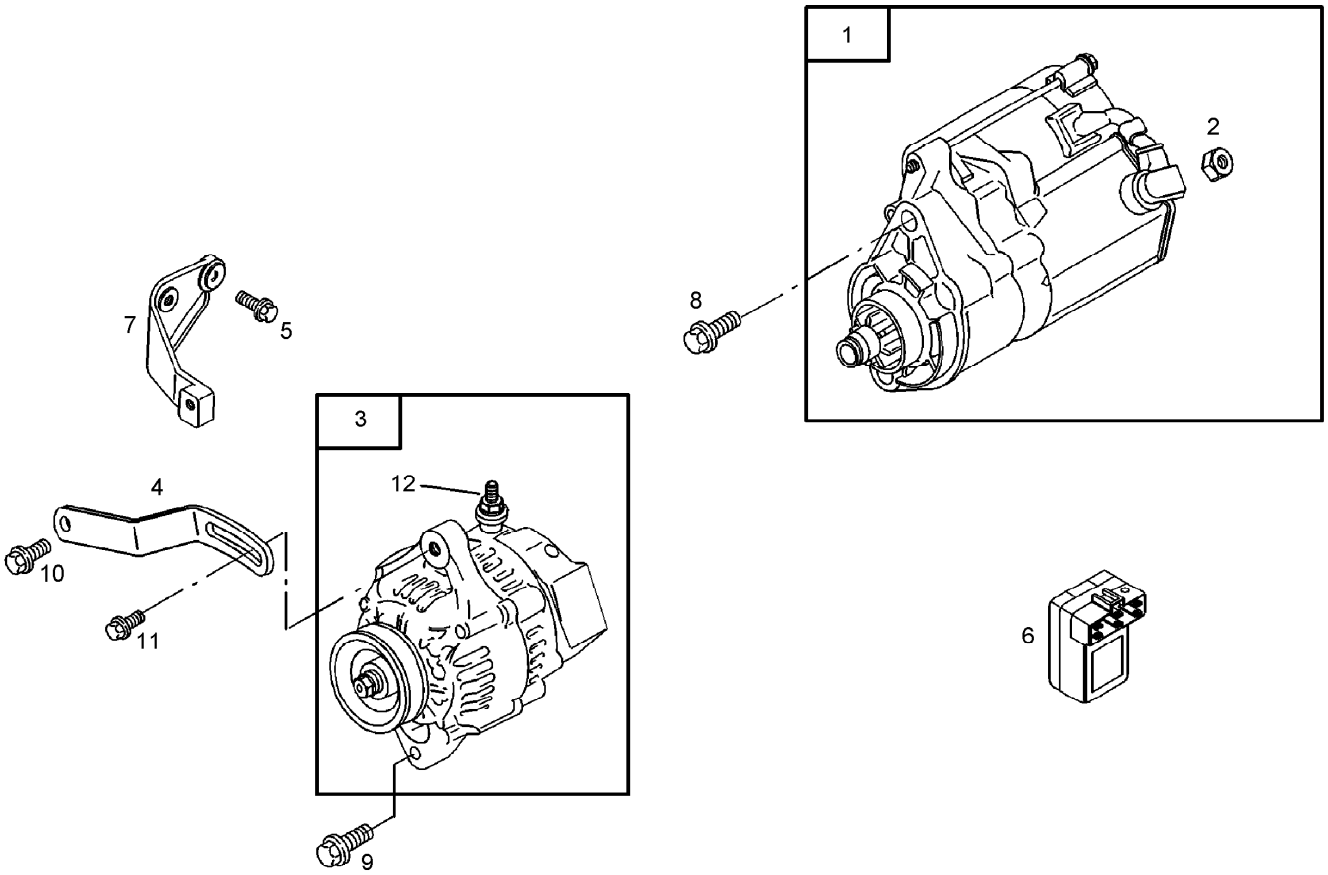
Ref.	*Part Number*	*Qty.*	*Description*
1	99-9155	1	Thermostat
2	99-9156	1	Belt-V
3	107-9902	1	Switch-Temperature, Water
4	99-9159	1	Plug
5	99-9158	1	Plug
6	99-9163	1	Gasket-Housing, Outlet
7	99-9164	1	Pulley-Pump
8	99-9165	1	Housing-Outlet
9	99-9166	1	Gasket-Housing, Inlet
10	99-9167	1	Housing-Inlet
11	99-9168	1	Gasket-Pump, Water
12	99-9659	1	Pump-Water
13	99-9004	1	Screw-Hex
14	99-9151	1	Screw-Hex
15	99-9153	1	Nut-Hex, Metric
16	99-9004	1	Screw-Hex
17	99-9152	1	Screw-Metric



Assemblies include all parts shown in frames.

Manifold Assembly

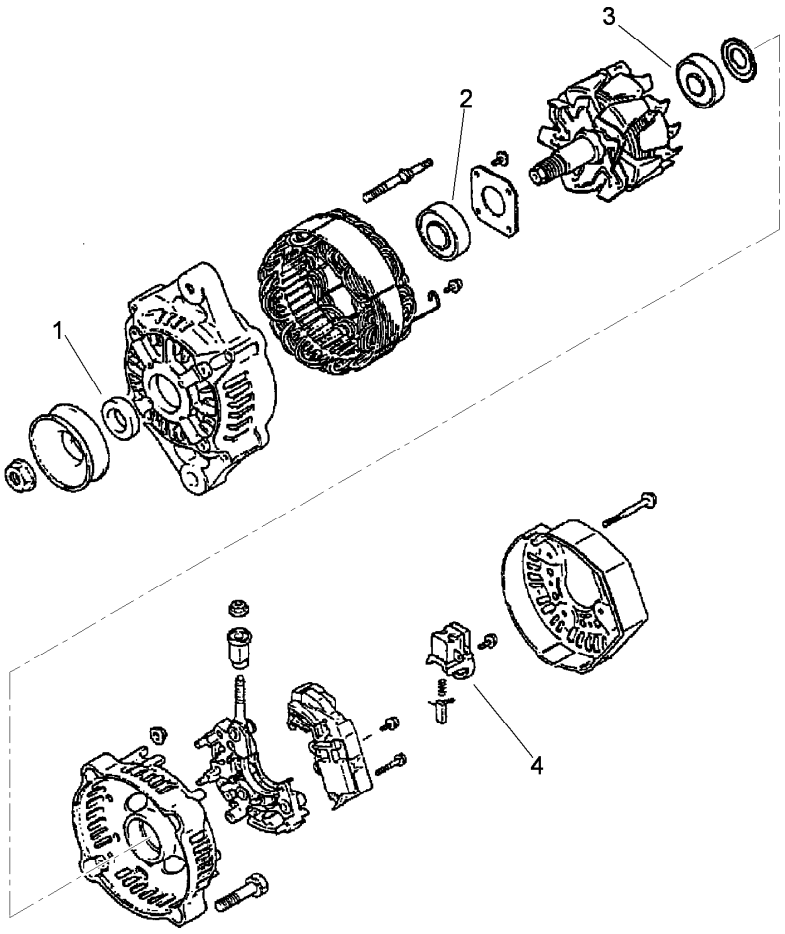
Ref.	*Part Number*	*Qty.*	*Description*
1	99-9661	1	Manifold-Intake
2	99-9662	1	Gasket-Intake
3	99-9004	1	Screw-Hex
4	99-9660	1	Screw-Hex
5	99-9174	1	Stud-Manifold, Exhaust
6	99-9177	1	Manifold-Exhaust
7	106-1855	1	Gasket-Exhaust
8	99-9114	1	Nut-Hex, Metric
9	99-9175	1	Nut-Hex, Metric
10	99-9176	1	Nut-Hex



Assemblies include all parts shown in frames.

Starter Motor and Alternator Assembly

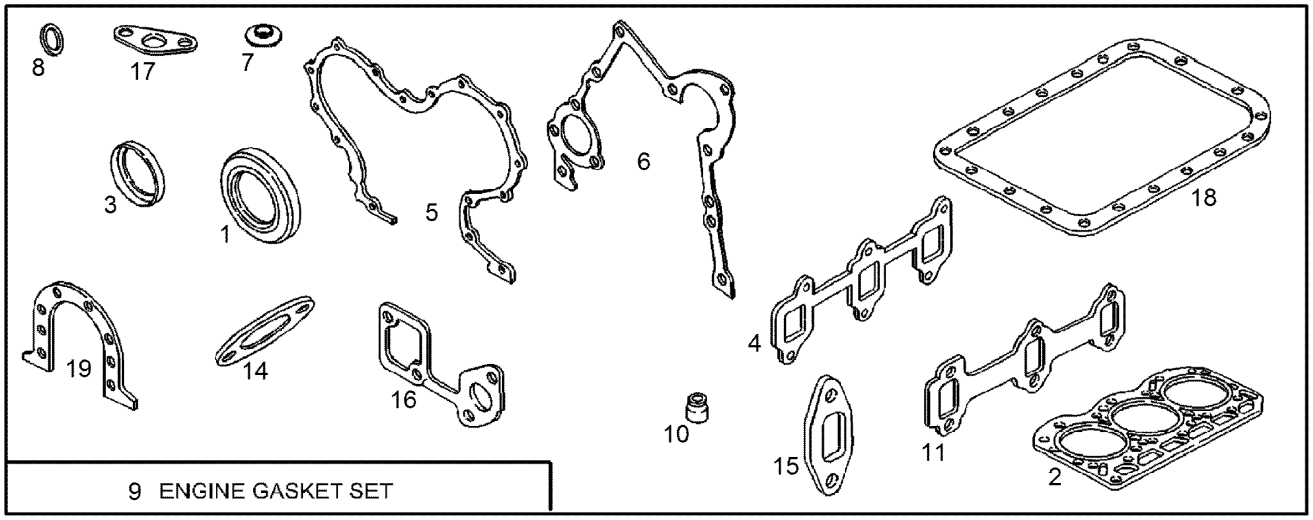
Ref.	*Part Number*	*Qty.*	*Description*
1	99-9207	1	Motor-Starter
2	99-9206	1	Nut-Hex, Metric
3	99-9209	1	Alternator
4	106-1952	1	Strap-Adjusting
5	99-9203	1	Screw-Hex
6	99-9666	1	Module
7	99-9211	1	Bracket-Support
8	99-9201	1	Screw-Hex
9	99-9205	1	Screw-Hex, Metric
10	99-9202	1	Screw-Hex
11	107-9903	1	Screw-Hex, Metric
12	99-9114	1	Nut-Hex, Metric

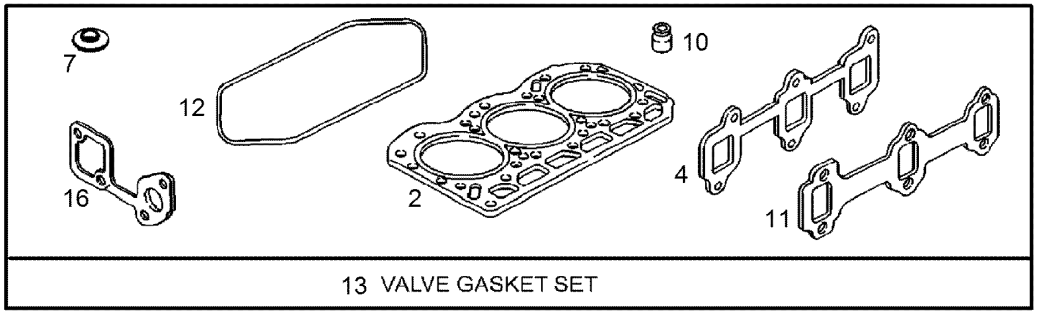


Parts not listed in parts list are not serviced separately

Alternator Assembly No. 99-9209

Ref.	*Part Number*	*Qty.*	*Description*
1	100-5315	1	Collar
2	100-5316	1	Bearing
3	100-5317	1	Bearing
4	100-5318	1	Brush Holder ASM





Assemblies include all parts shown in frames

Gasket Assembly

Ref.	*Part Number*	*Qty.*	*Description*
1	99-9003	1	Seal-Oil
2	107-9898	1	Gasket-Head, Cylinder
3	115-2318	1	Gasket Kit
4	99-9662	1	Gasket-Intake
5	99-9653	1	Gasket-Cover, Gear
6	99-9136	1	Gasket-Cover, Gear Reduction
7	99-9063	1	Washer-Seal
8	99-9249	1	Washer-Seal
9	107-9906	1	Gasket Set

Ref.	*Part Number*	*Qty.*	*Description*
10	99-9643	1	Seal-Valve
11	106-1855	1	Gasket-Exhaust
12	99-9073	1	Gasket-Cover, Rocker
13	107-9907	1	Valve Overhaul Kit
14	99-9163	1	Gasket-Housing, Outlet
15	99-9166	1	Gasket-Housing, Inlet
16	99-9168	1	Gasket-Pump, Water
17	99-9120	1	Gasket-Strainer, Oil
18	99-9121	1	Gasket-Pan, Oil
19	99-9021	1	Gasket-Retainer

Attachments and Accessories

For 74268 Z590-D Z Master With 60in TURBO FORCE Side Discharge Mower

Product Name	Model/Part
Blade-Mid Flow, 20.5 inch	105-7715-03
Blade-Lo Flow, 20.5 inch	105-7716-03
Blade-Hi Flow, 20.5 inch	105-7718-03
Blade-Recycler, 20.5 inch	105-7777-03
Blade-Atomic, 20.5 inch	105-8777-03
Recycler Kit	107-1611
Striping Kit	107-1630
Turbo Baffle Kit	107-1634
Light Kit	107-9880
6 Pack Blade, 20.5 inch Hi-Flow	108-1114
6 Pack-Blade, 20.5 inch Atomic	108-1115
6 Pack Blade, 20.5 inch Mid-Flow	108-1123
6 Pack-Blade, 20.5 inch Lo Flow	108-1128
Roller Striping Kit	108-2162
6 Pack-Blade, 20.5 inch Recycler	110-0405
Hitch Kit	110-0444
Cool Top ROPS Mounted Fan	110-1996
Bimini Folding Shade Assembly	115-4510
Chute Gate Kit	78521
Triple Bag Assembly	78534
Blower and Drive Kit	78538
DFS E-Z Vac Bagger	78544
Filter Minder Gauge	99-4664

Notes:

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Count on it.