Form No. 3327-156

Sand Pro® 3020

Model No. 08885—220000001 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.

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Accessories

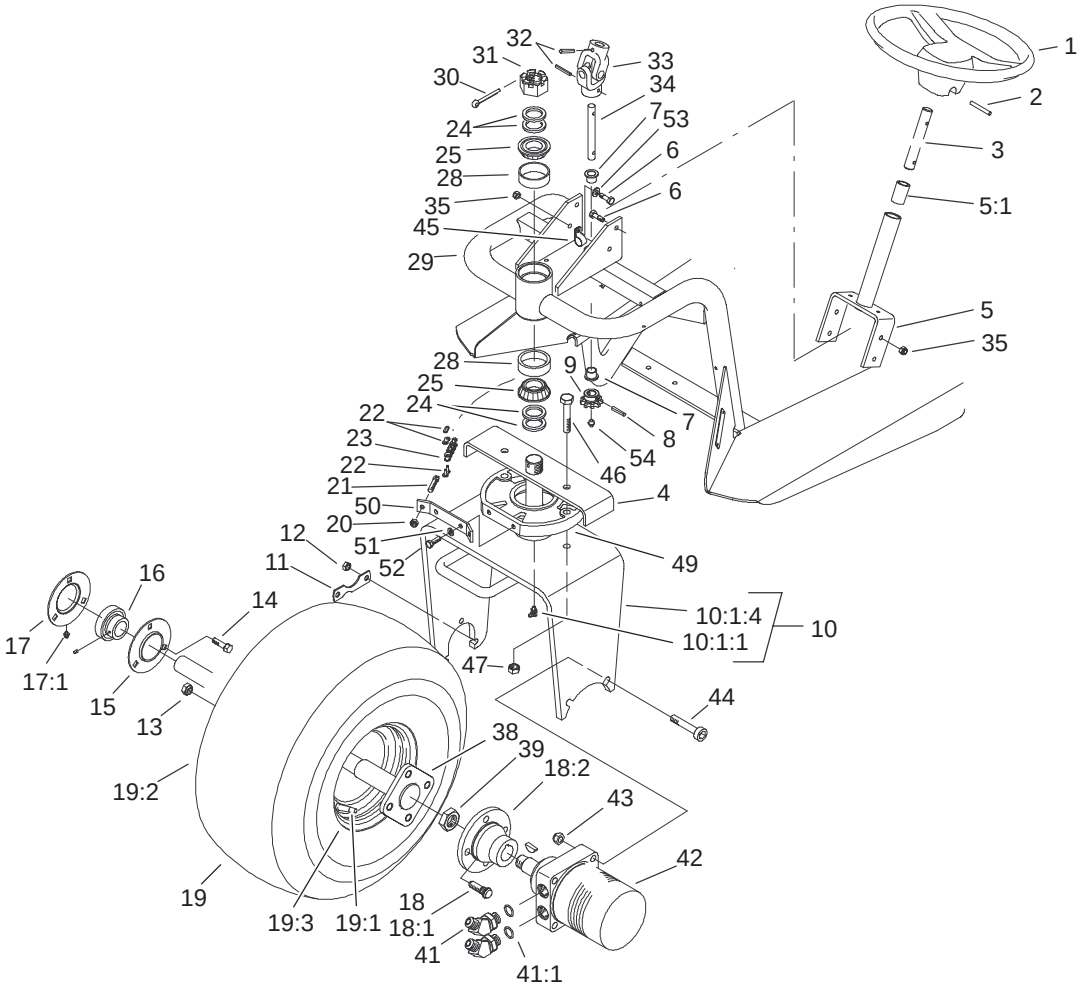
Description	Model / Part No.
Rake Mounting Kit	08814
Tooth Rake	08812
Spring Rake	08813
Weeder/Cultivator	08815
Dozer Blade	08821
Drag Mat Kit	08850
Finish Grader	08867
Spiker	08856
Debris Blower	08857

Description	Model / Part No.
Chute Discharge Kit (Debris Blower)	08860
Sand Blade 240	44900
2 Speed Valve Kit	95–5834
Seat with Suspension Kit	30797
Seat Adapter Plate	92–7171
Draw Bar	92–2330
Spark Arrestor Screen	95–5819
Blower Mounting Kit	08858
SandPro CE Kit	95–5832

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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

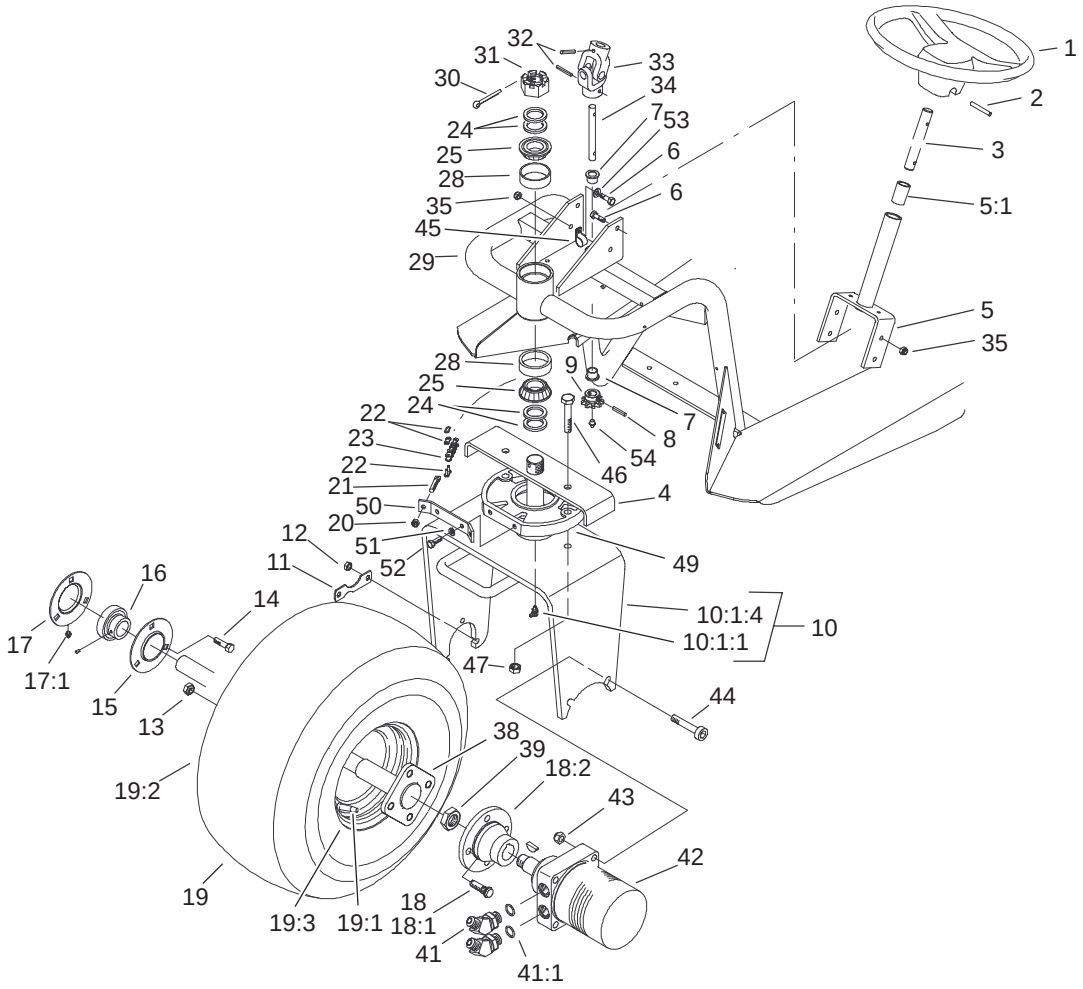


Sheet No.:2

Front Wheel and Steering Assembly

Ref. No.	Part No.	Qty.	Description
1	76–1420	1	Wheel–Steering
2	32121–111	1	Pin–Roll
3	85–6610	1	Shaft–Steering
4	92–7179–01	1	Plate–Stop, Fork
5	92–5035	1	Post–Steering
5:1	256–185	1	Bushing
6	322–5	4	Screw–HH
7	65–8770	2	Bushing–Bellcrank
8	98–0973	1	Pin–Grooved
9	85–9180	1	Sprocket–Steering
10		1	Fork ASM
10:1:1	302–33	1	Fitting–Grease
10:1:4	98–0950–01	1	Fork
11	88–8350	1	Tab–Bearing
12	3296–39	3	Nut–Lock, NI
13	242–50	4	Nut–Lug
14	323–29	3	Screw–HH
15	85–8950	1	Flangette–STD
16	251–352	1	Bearing
17	85–8940	1	Flangette–Relube
17:1	302–5	1	Fitting–Grease
18		1	Front Wheel Hub ASM
18:1	10–6830	4	Stud–Type, Drive
18:2	93–6838–03	1	Hub–Wheel
19		1	Wheel & Tire ASM
19:1	232–35	1	Stem–Valve

Ref. No.	Part No.	Qty.	Description
19:2	85–8290	1	Tire
19:3	94–6116	1	Wheel–Rear
20	3296–4	2	Nut–Lock, NI
21	18–6380	2	Pin–Adjustment, Steering
22	2710–11	2	Link–Chain
23	92–5039	1	Chain–Steering
24	18–6320	4	Washer–Steering
25	254–70	2	Bearing–Cone
28	254–61	2	Bearing–Cup
29	95–0600–01	1	Frame
30	3272–37	1	Pin–Cotter
31	32136–9	1	Nut–Hex, Slot
32	32121–15	2	Pin–Roll
33	85–9200	1	Knuckle–Steering
34	98–0928	1	Shaft–Steering, Lower
35	3296–29	4	Nut–Lock, NI
38	92–8969	1	Spindle
39	26–3790	1	Nut–Lock
41	353–427	2	Fitting–45deg
41:1	237–80	1	O–Ring
42	75–9830	1	Motor–Hydraulic
43	3296–23	2	Nut–Lock, NI
44	3274–93	2	Screw–HSH
45	94–6821	2	Clamp–Wire
46	325–10	2	Screw–HH

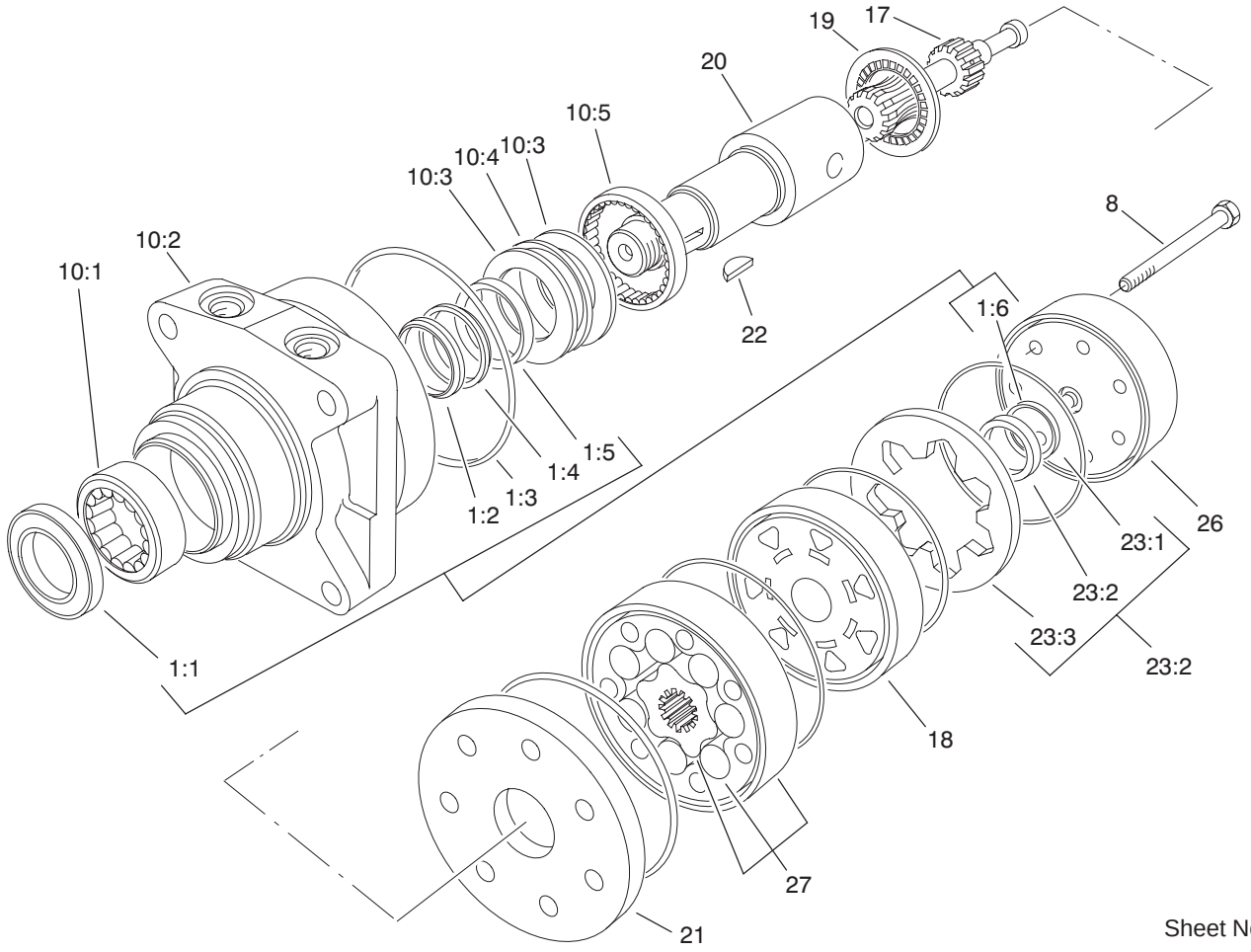


Sheet No.:2

Front Wheel and Steering Assembly (Continued)

Ref. No.	Part No.	Qty.	Description
47	3296–25	2	Nut–Lock NI
49	98–0924–01	1	Guide–Chain
50	98–0925	1	Bracket–Chain
51	3253–4	2	Washer–Lock
52	322–3	2	Screw–HH
53	3256–23	2	Washer–Flat
54	302–2	1	Fitting–Grease

Ref. No.	Part No.	Qty.	Description



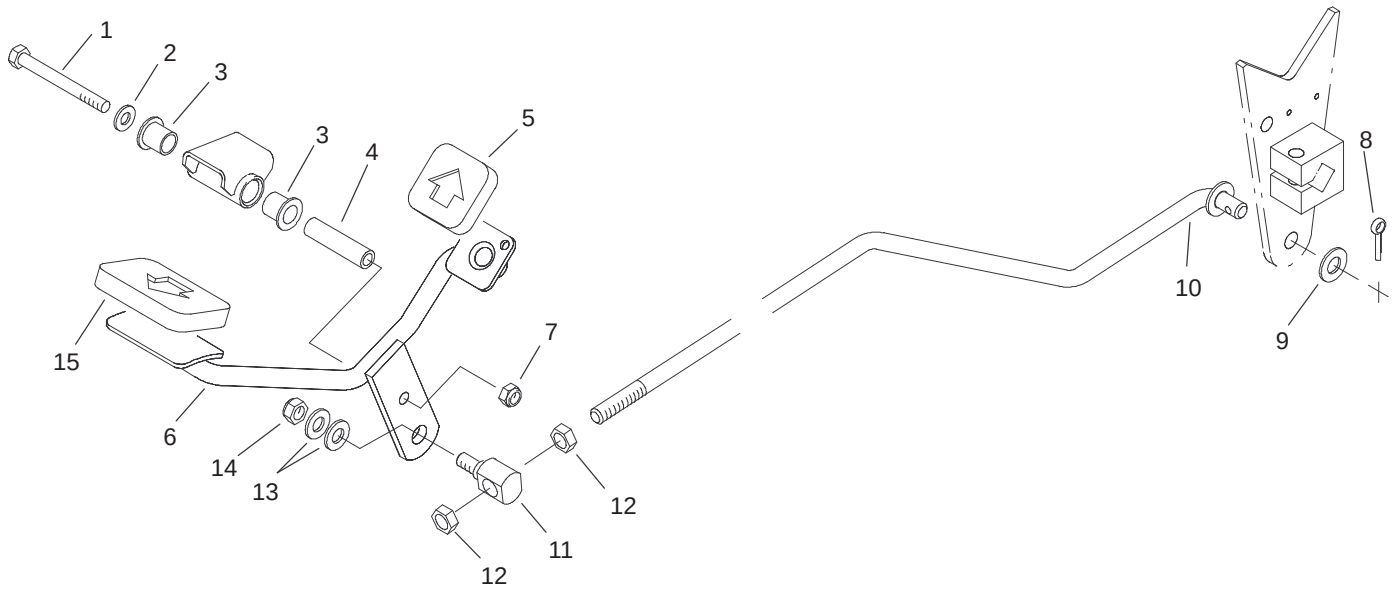
Sheet No.:A1
T–0983

Hydraulic Drive Motor Assembly No. 75–9830

Ref. No.	Part No.	Qty.	Description
1	94–8178	1	Kit–Seal
☆1:1		1	Seal–Dirt & Water
☆1:2		1	Washer–Backup
☆1:3		5	Seal–Ring
☆1:4		1	Washer–Backup
☆1:5		1	Seal–Inner
☆1:6		1	Seal–Commutator
8	76–1030	7	Screw–Cap, HH
10	76–0810	1	Housing ASM
☆10:1		1	Bearing
☆10:2		1	Housing
☆10:3		2	Washer–Thrust
☆10:4		1	Bearing–Thrust
☆10:5		1	Bearing
17	76–0930	1	Link–Drive
18	76–0840	1	Manifold
19	76–0850	1	Bearing–Thrust
20	76–0860	1	Shaft–Coupling
21	76–0870	1	Plate–Wear
22	3257–42	1	Key–Woodruff
23	76–0880	1	Commutator ASM
☆23:1		1	Seal–Commutator
☆23:2		1	Commutator
☆23:3		1	Ring–Commutator
26	76–0940	1	End Cover ASM
27	76–0950	1	Rotor Set

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately

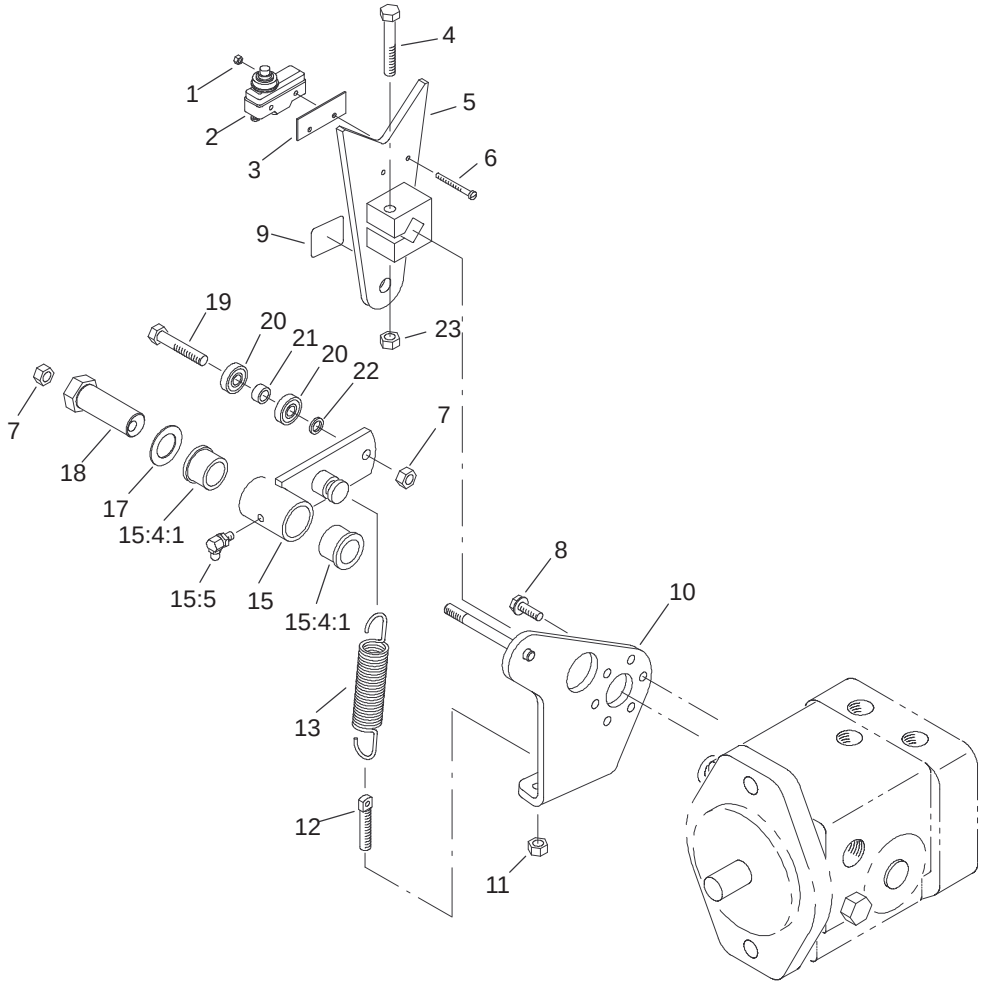


Sheet No.:3

Traction Pedal Assembly

Ref. No.	Part No.	Qty.	Description
1	322–14	1	Screw–HH
2	3256–23	1	Washer–Flat
3	256–219	2	Bushing
4	85–8960	1	Spacer
5	74–9110	1	Pad–Pedal, Reverse
6	92–2343–01	1	Pedal
7	3296–29	1	Nut–Lock, NI
8	3272–16	1	Pin–Cotter
9	3256–25	1	Washer–Flat
10	95–0584	1	Control–Cover
11	92–2344	1	Trunnion
12	3218–5	2	Nut–Jam
13	3256–24	2	Washer–Flat
14	3296–39	1	Nut–Lock, NI
15	74–9100	1	Pad–Pedal, Forward

Ref. No.	Part No.	Qty.	Description

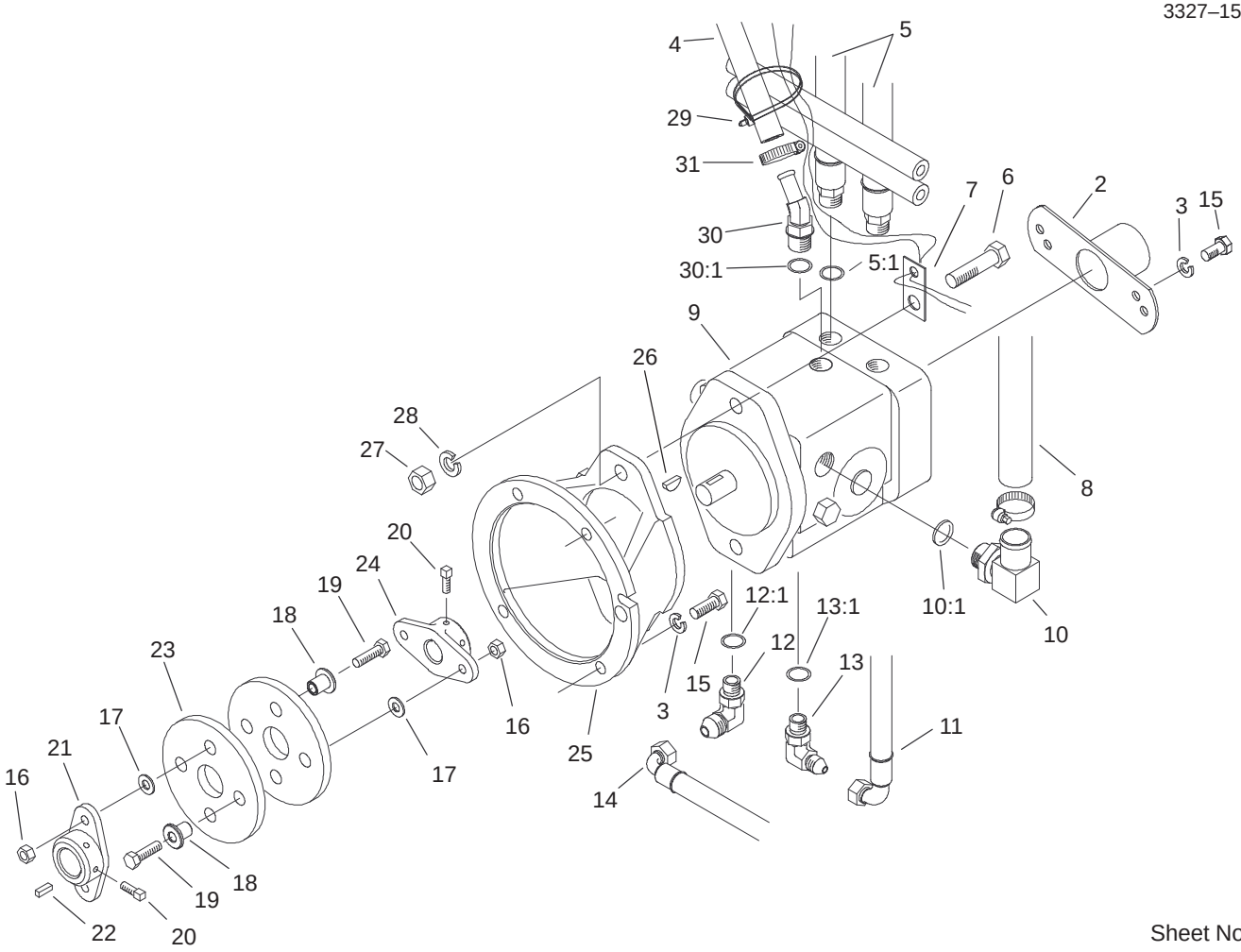


Sheet No.:4

Neutral System Assembly

Ref. No.	Part No.	Qty.	Description
1	3296–9	2	Nut–Lock NI
2	29–6163	1	Switch–Micro
3	85–9150	1	Plate–Switch
4	323–10	1	Screw–HH
5	85–8300–03	1	Lever–Pump
6	32105–21	2	Screw–HH
7	3296–29	2	Nut–Lock, NI
8	49–2040	3	Screw–Tapping
9	93–9051	1	Decal–Bolt, Eccentric
10	95–0553–03	1	Plate–Pump
11	3296–4	1	Nut–Lock, NI
12	18–6380	1	Pin–Adjustment, Steering
13	85–9030	1	Spring–Extension
15	85–8460	1	Switch Arm ASM
15:4:1	256–113	2	Bushing–Flange
15:5	302–60	1	Fitting–Lube
17	3–6498	1	Washer–Thrust
18	76–8640	1	Stud–Traction
19	322–8	1	Screw–HH
20	251–307	2	Bearing–Ball
21	85–9120	1	Spacer–Pivot, Tilt
22	75–5470	1	Spacer–Bearing
23	3296–39	1	Nut–Lock, NI

Ref. No.	Part No.	Qty.	Description

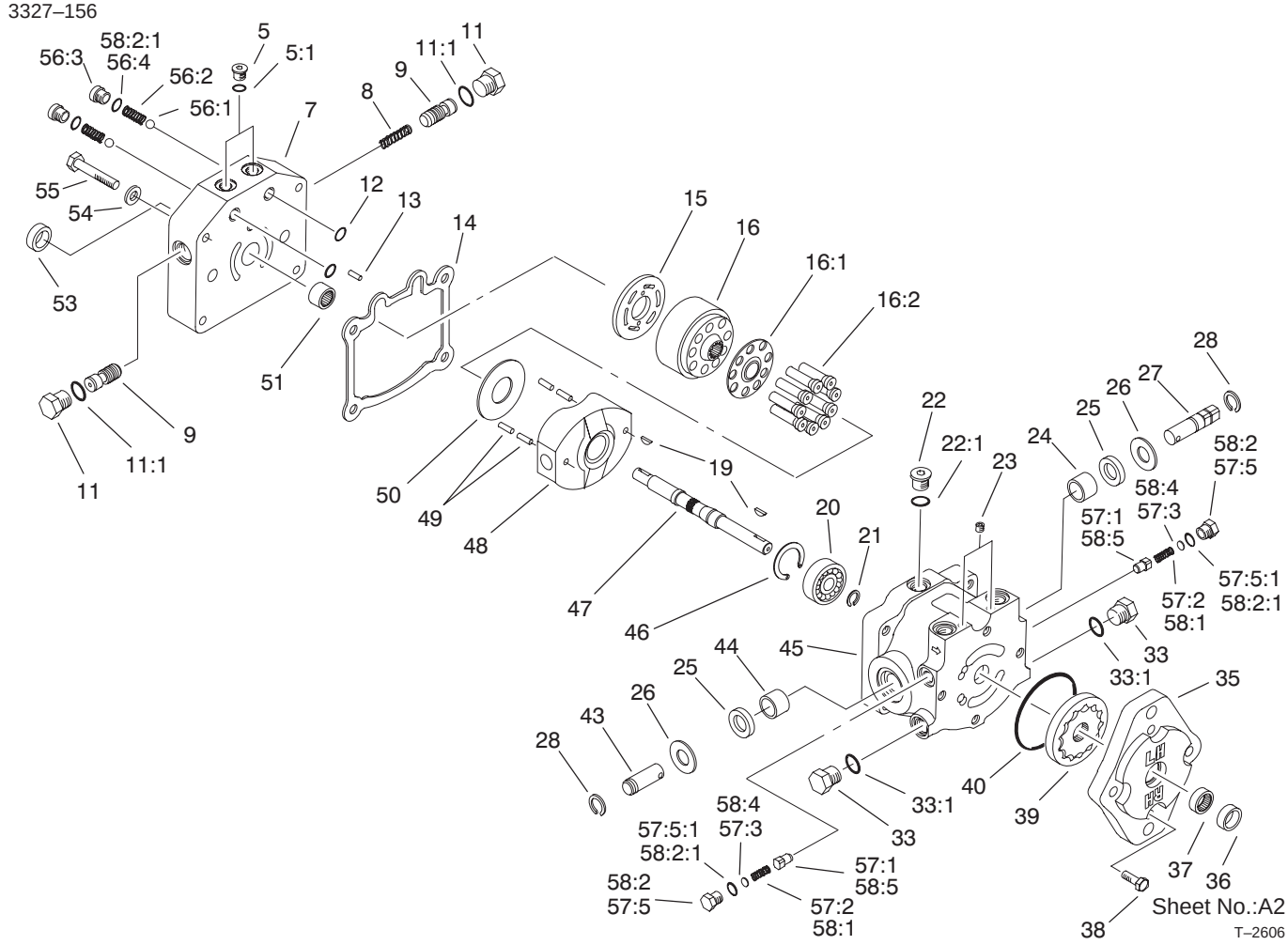


Sheet No.:5

Hydraulic Pump Installation Assembly

Ref. No.	Part No.	Qty.	Description
2	95–0632–03	1	Cover ASM
3	3253–5	6	Washer–Lock
4	98–8153	1	Hose–Return
5	95–0595	2	Hose–HYD
5:1	237–79	1	O–Ring
6	325–7	2	Screw–HH
7	26–2950	1	Wire–Standoff
8	95–0555	1	Hose–Suction
9	95–0587	1	Pump–Reversible,Variable
10	95–0629	1	Fitting–Hose, Push On
10:1	237–80	1	O–Ring
11	95–0592	1	Hose ASM
12	353–511	1	Elbow–90°
12:1	237–42	1	O–Ring
13	353–374	1	Elbow–90°
13:1	237–42	1	O–Ring
14	95–0591	1	Hose–HYD
15	323–6	6	Screw–HH
16	3296–29	4	Nut–Lock, NI
17	3256–23	4	Washer–Flat
18	71–4411	4	Spacer
19	322–17	4	Screw–HH
20	3241–5	4	Screw–Set
21	27–1960	1	Hub–Engine
22	13–2840	1	Key–Square

Ref. No.	Part No.	Qty.	Description
23	80–8650	2	Coupling–Drive
24	49–9600	1	Hub–Pump
25	95–0631–03	1	Mount–Pump
26	3257–32	1	Key–Woodruff
27	3217–9	2	Nut–HH
28	3253–7	2	Washer–Lock
29	3290–378	1	Tie–Cable
30	354–126	1	Fitting–HYD, 45°
30:1	237–79	1	O–Ring
31	2412–36	1	Clamp–Hose

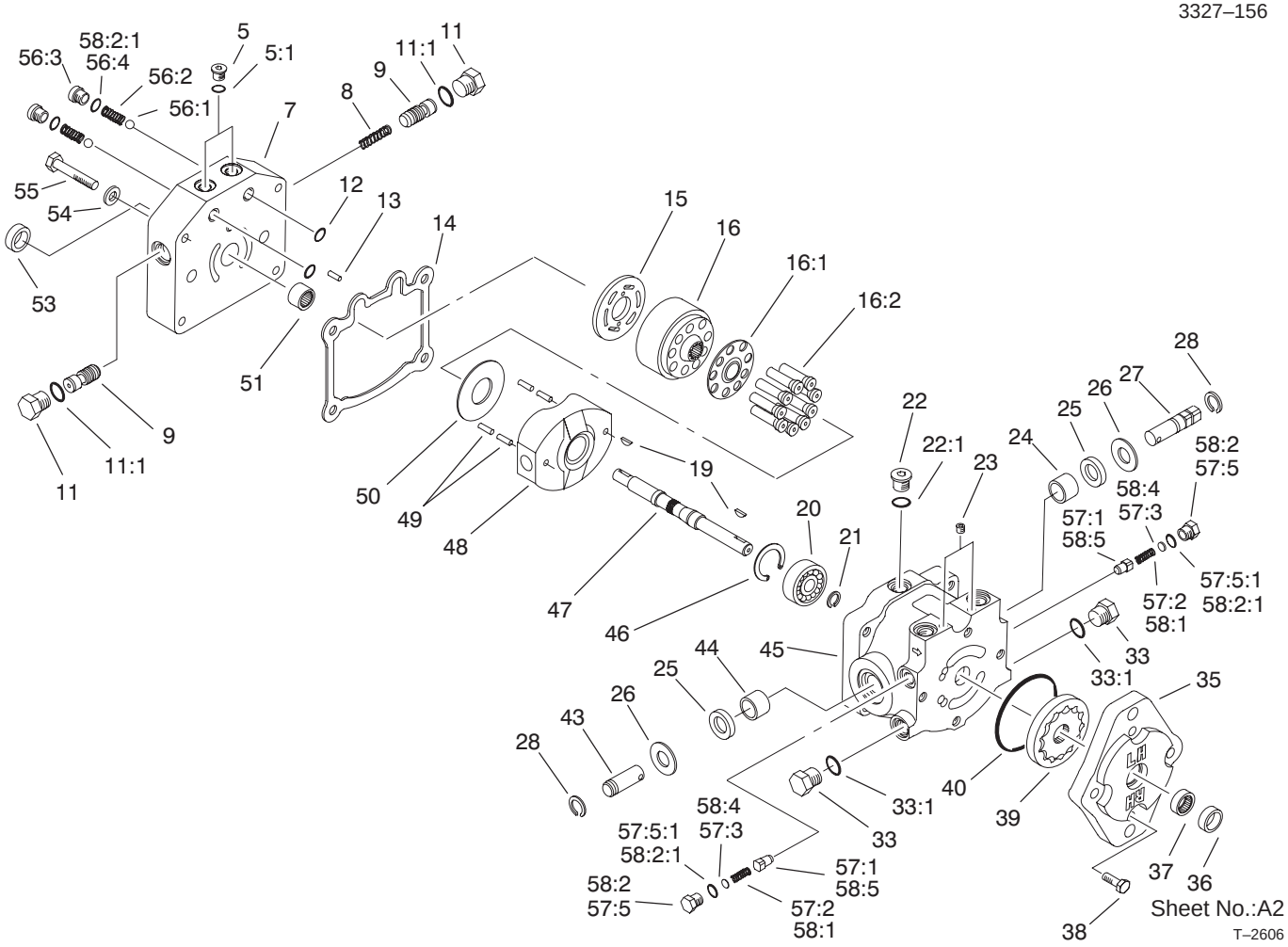


Hydraulic Pump Assembly No. 95–0587

Ref. No.	Part No.	Qty.	Description
5	92–8776	2	Plug
5:1	92–8777	1	O–Ring
7	95–5808	1	Cap–End
8	95–5815	1	Spring–Valve, Accel.
9	95–5814	2	Valve–Acceleration
11	95–5816	1	Plug
11:1	237–79	1	O–Ring
12	93–4132	2	O–Ring
13	25–2430	1	Pin–Dowel
14	25–2400	1	Gasket
15	95–5811	1	Plate–Valve
16	48–1800	1	Cylinder Block Kit
☆16:1		1	Retainer–Slipper
☆16:2		9	Piston ASM
19	3257–32	2	Key–Woodruff
20	95–5809	1	Bearing–Ball
21	95–5813	1	Ring–Retaining
22	353–988	1	Plug–Hex, Hollow
22:1	237–79	1	O–Ring
23	285–17	2	Plug–Pipe
24	88–8190	1	Bearing–Journal
25	25–3210	2	Seal–Lip
26	25–2510	2	Washer–Flat
27	88–8180	1	Shaft–Trunnion
28	32151–46	2	Ring–Retaining
33	88–8210	2	Plug

Ref. No.	Part No.	Qty.	Description
33:1	237–80	1	O–Ring
35	25–2690	1	Housing–Pump, Charge
36	67–8060	1	Seal–Lip
37	67–8050	1	Bearing–Needle
38	322–4	4	Screw–HH
39	95–5812	1	Gerotor ASM
40	237–95	1	O–Ring
42	25–2480	1	Spring–Valve
43	25–2500	1	Shaft–Trunnion
44	252–82	1	Bearing–Needle
46	32120–11	1	Ring–Retaining
47	95–5810	1	Shaft
48	25–2450	1	Plate–Swash, Variable
49	32121–91	4	Pin–Spring, Coil
50	25–2380	1	Plate–Thrust
51	46–8400	1	Bearing–Shaft
53	88–8230	1	Seal–Lip
55	323–45	4	Screw–HH
56	99–5689	1	Check Valve ASM
56:1	25–2490	1	Ball
56:2	25–2640	1	Spring–Valve
56:3	25–2650	1	Plug–Valve, Check
56:4	237–86	1	O–Ring
57	49–8520	1	Implement Relief Kit
57:1	83–7260	1	Cone–Relief, Charge

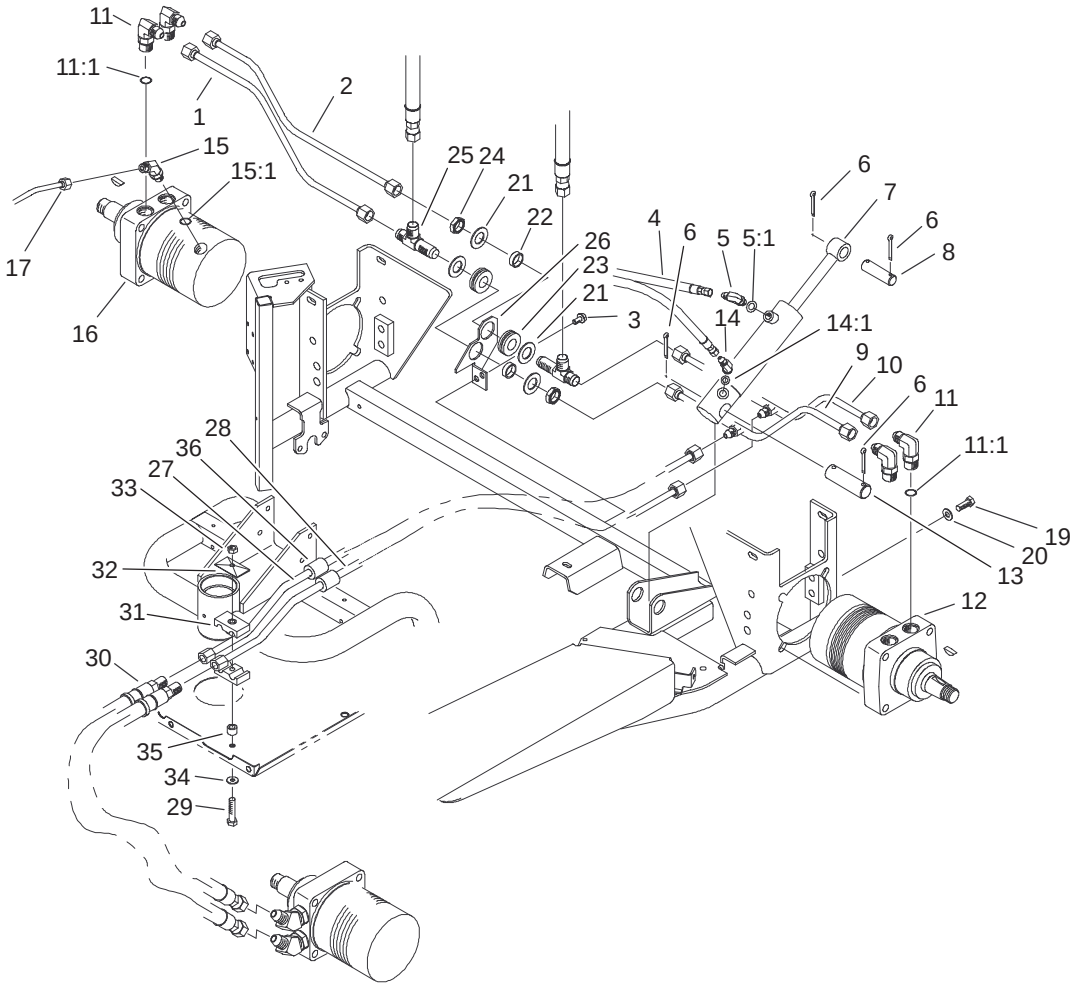
☆ Not serviced separately



Hydraulic Pump Assembly No. 95–0587 (Continued)

Ref. No.	Part No.	Qty.	Description
57:2	25–2570	1	Spring–Valve
57:3	25–2470	1	Pack–Shim
57:5	25–2460	1	Plug–HH
57:5:1	237–86	1	O–Ring
58	49–8510	1	Kit–Valve
58:1	25–2480	1	Spring–Valve
58:2	25–2460	1	Plug–HH
58:2:1	237–86	1	O–Ring
58:4	25–2470	1	Pack–Shim
58:5	83–7260	1	Cone–Relief, Charge

Ref. No.	Part No.	Qty.	Description



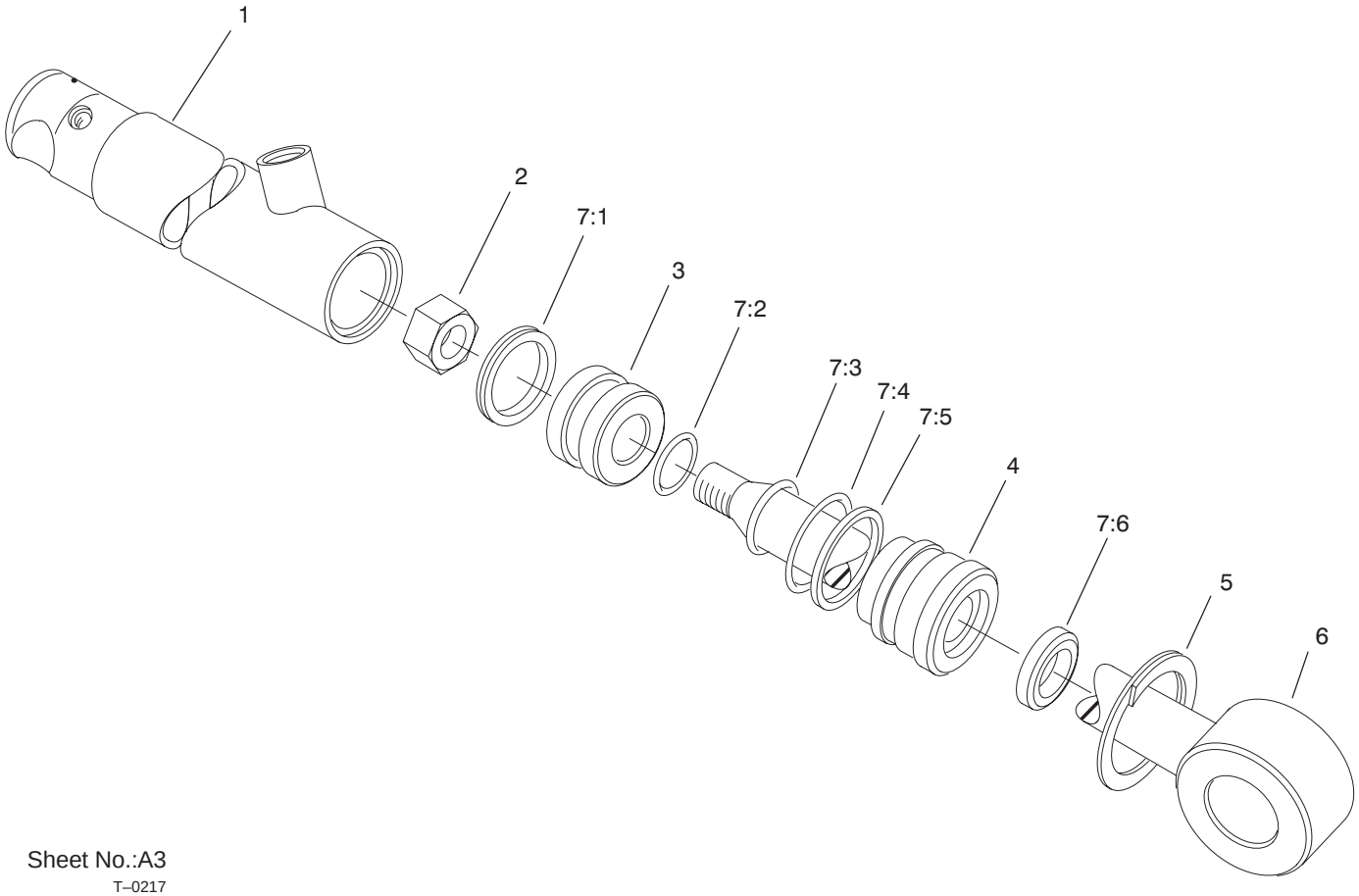
Sheet No.:6

Rear Wheel Drive Assembly

Ref. No.	Part No.	Qty.	Description
1	95–0564	1	Tube–RH, Front
2	95–0559	1	Tube–RH, Rear
3	32144–14	2	Screw–HWH
4	22–4670	2	Hose–Valve/Cylinder
*4:1	237–78	1	O–Ring
5	354–132	1	Fitting
5:1	237–78	1	O–Ring
6	3272–23	4	Pin–Cotter
7	83–7000	1	HYD Cylinder ASM
8	18–7310	1	Pin–Cylinder
9	95–0560	1	Tube–LH, Front
10	95–0567	1	Tube–LH, Rear
11	353–426	4	Fitting–90°
11:1	237–80	1	O–Ring
12	75–9831	1	Motor–HYD
13	18–7160	1	Pin–Cylinder
14	353–431	1	Fitting–45°
14:1	237–78	1	O–Ring
15	353–212	1	Elbow
15:1	237–42	1	O–Ring
16	75–9840	1	Motor–HYD
17	95–0575	1	Tube–Valve, Shuttle
19	325–5	4	Screw–HH
20	3256–26	4	Washer–Flat
21	69–8930	4	Washer
22	69–8960	2	Spacer

Ref. No.	Part No.	Qty.	Description
23	240–5	2	Grommet
24	95–0642	2	Locknut–Bulkhead
25	95–0577	2	Fitting–Bulkhead
26	95–0568–01	1	Bracket–Bulkhead
27	95–0562	1	Tube–RH
28	95–0563	1	Tube–LH
29	321–18	1	Screw–HH
30	51–0600	2	Hose ASM
31	56–7976	2	Clamp–Tube
32	69–9760	1	Coverplate
33	3296–8	1	Nut–Lock NI
34	3256–78	1	Washer–Flat
35	52–2480	1	Spacer–Wheel
36	38–3400	3	Guard–Rubber

* Not illustrated



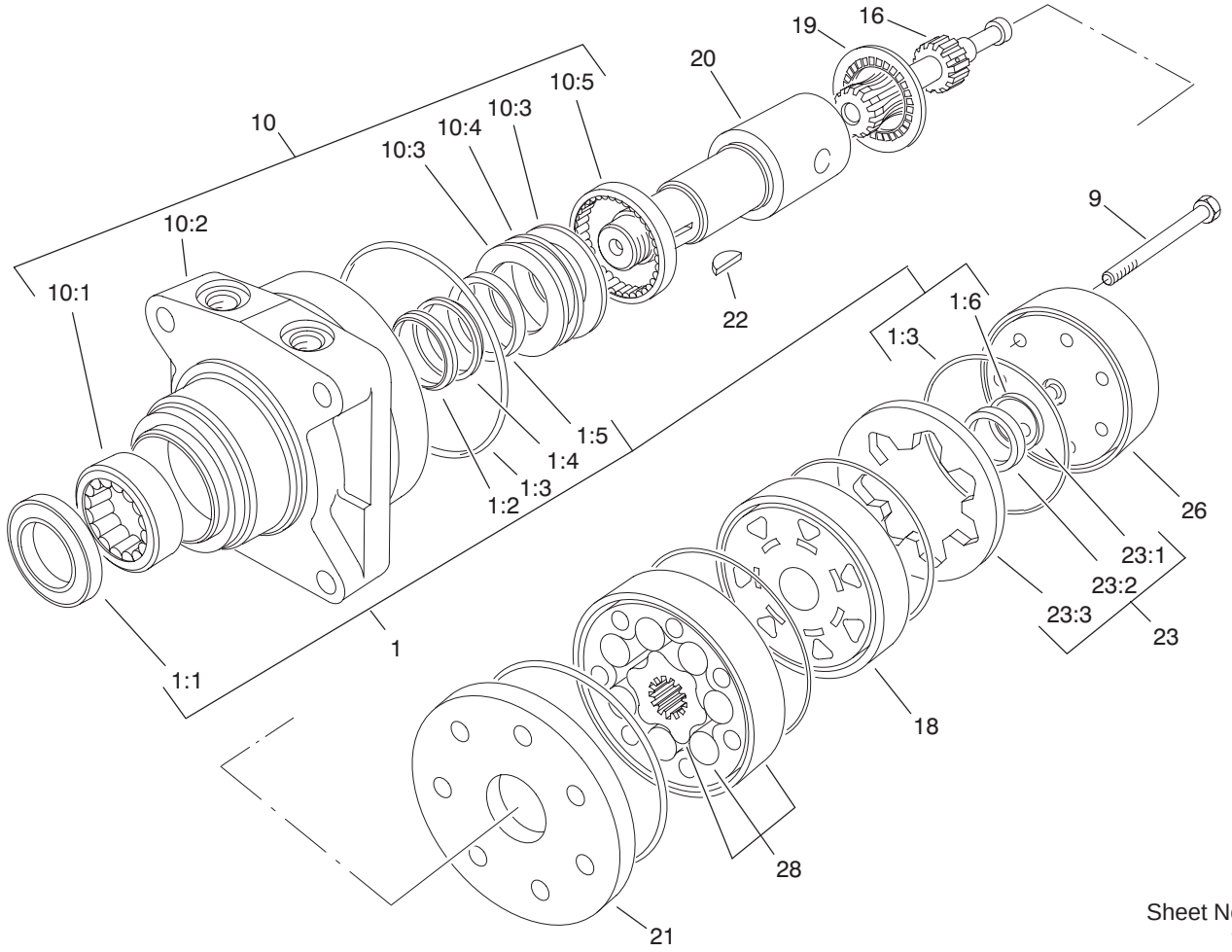
Sheet No.:A3
T–0217

Hydraulic Cylinder Assembly No. 83–7000

Ref. No.	Part No.	Qty.	Description
☆1		1	Barrel ASM
2	32152–10	1	Locknut
3	70–2780	1	Piston
4	70–2770	1	Head
5	43–5220	1	Ring–Retaining
6	43–5230	1	Shaft W/Clevis
7	86–5360	1	Seal Repair Kit
☆7:1		1	Uniring–Grooved
☆7:2		1	O–Ring
☆7:3		1	Pdf Ultrathan
☆7:4		1	O–Ring
☆7:5		1	Back–Up
☆7:6		1	Seal–Dust

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



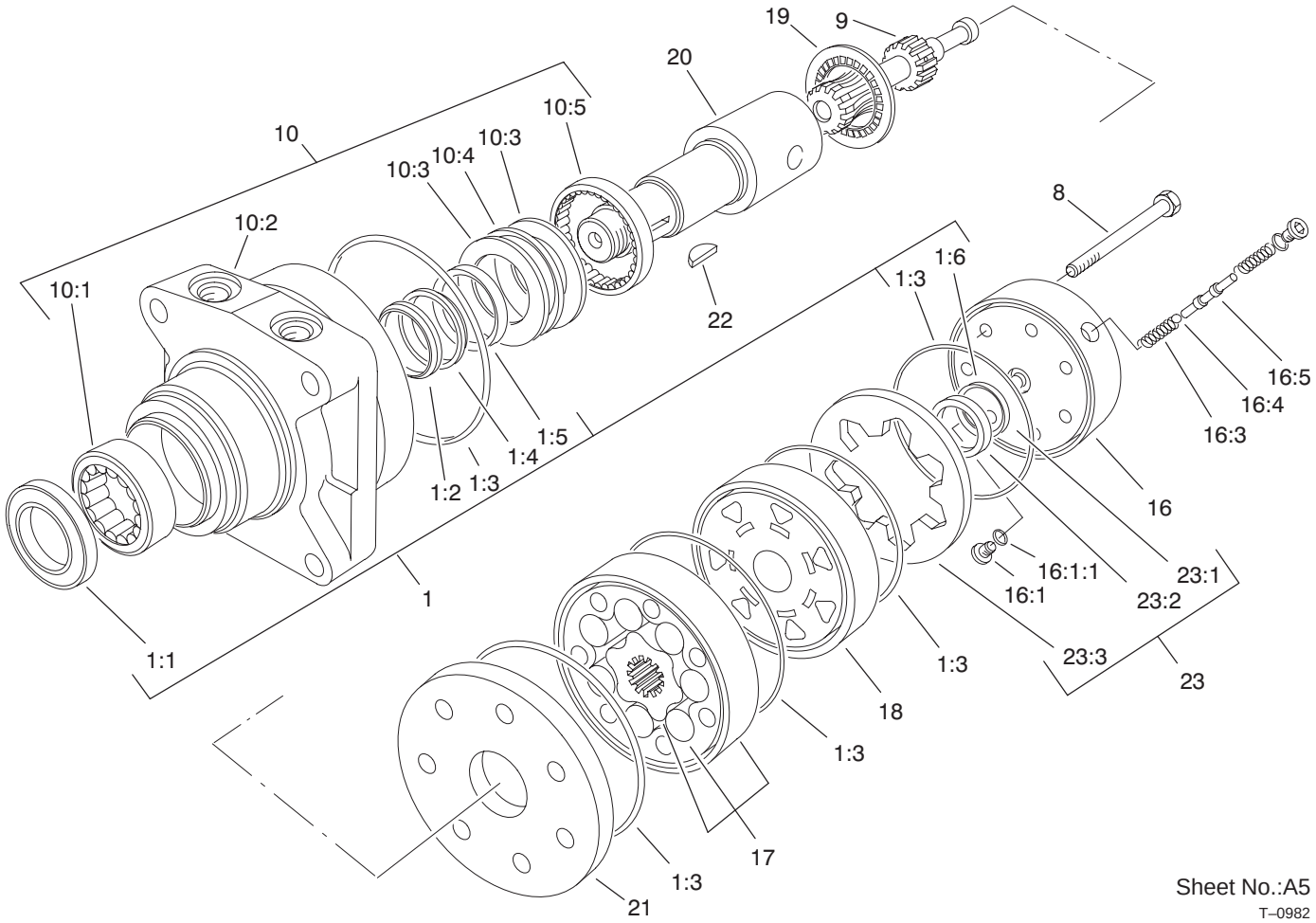
Sheet No.:A4
T–0983

Hydraulic Drive Motor Assembly No. 75–9831

Ref. No.	Part No.	Qty.	Description
1	94–8178	1	Kit–Seal
☆1:1		1	Seal–Dirt & Water
☆1:2		1	Washer–Backup
☆1:3		5	Seal–Ring
☆1:4		1	Washer–Backup
☆1:5		1	Seal–Inner
☆1:6		1	Seal–Commutator
9	76–1020	7	Screw–Cap, HH
10	76–0810	1	Housing ASM
☆10:1		1	Bearing
☆10:2		1	Housing
☆10:3		2	Washer–Thrust
☆10:4		1	Bearing–Thrust
☆10:5		1	Bearing
16	76–0820	1	Line–Drive
18	76–0840	1	Manifold
19	76–0850	1	Bearing–Thrust
20	76–0860	1	Shaft–Coupling
21	76–0870	1	Plate–Wear
22	3257–42	1	Key–Woodruff
23	76–0880	1	Commutator ASM
☆23:1		1	Seal–Commutator
☆23:2		1	Commutator
☆23:3		1	Ring–Commutator
26	76–0940	1	End Cover ASM
28	76–0830	1	Set–Rotor

Ref. No.	Part No.	Qty.	Description

☆ Not serviced separately



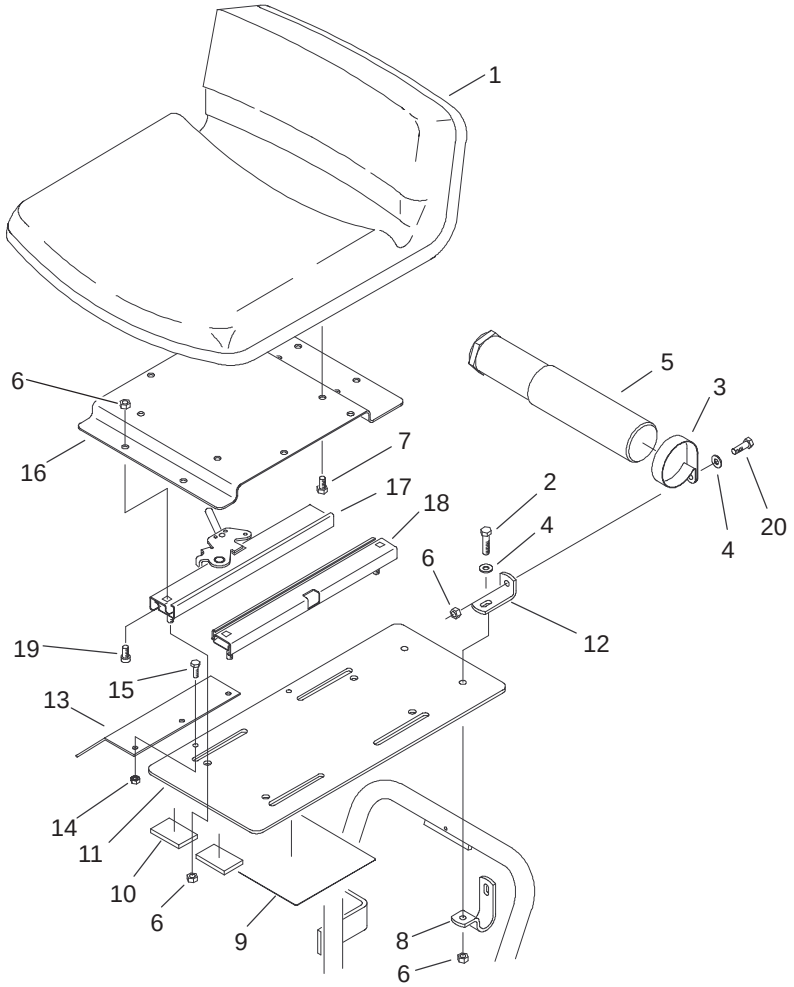
Sheet No.:A5
T–0982

Hydraulic Drive Motor Assembly No. 75–9840

Ref. No.	Part No.	Qty.	Description
1	94–8178	1	Kit–Seal
☆1:1		1	Seal–Dirt & Water
☆1:2		1	Washer–Backup
☆1:3		5	Seal–Ring
☆1:4		1	Washer–Backup
☆1:5		1	Seal–Inner
☆1:6		1	Seal–Commutator
8	76–1040	7	Screw Cap–Hx Hd,Special
9	76–0820	1	Line–Drive
10	76–0810	1	Housing ASM
☆10:1		1	Bearing
☆10:2		1	Housing
☆10:3		2	Washer–Thrust
☆10:4		1	Bearing–Thrust
☆10:5		1	Bearing
16	76–0890	1	End Cover ASM
16:1	353–990	2	Plug
☆16:3		2	Spring
☆16:4		1	Ball
☆16:5		1	Valve–Shuttle
17	76–0830	1	Set–Rotor
18	76–0840	1	Manifold
19	76–0850	1	Bearing–Thrust
20	76–0860	1	Shaft–Coupling
21	76–0870	1	Plate–Wear

Ref. No.	Part No.	Qty.	Description
22	3257–42	1	Key–Woodruff
23	76–0880	1	Commutator ASM
☆23:1		1	Seal–Commutator
☆23:2		1	Commutator
☆23:3		1	Ring–Commutator

☆ Not serviced separately

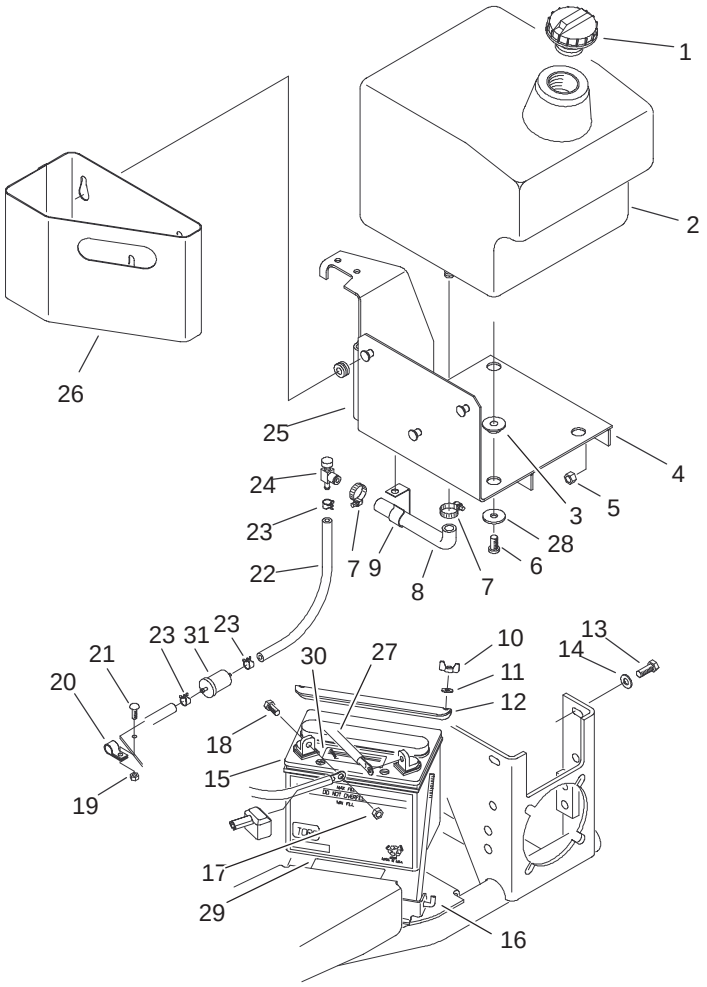


Sheet No.:7

Seat Assembly

Ref. No.	Part No.	Qty.	Description
1	92–8976	1	Seat
2	322–6	2	Screw–HH
3	2412–133	2	R–Clamp
4	3256–3	4	Washer–Flat
5	74–0720	1	Tube–Manual
6	3296–29	12	Nut–Lock, NI
7	3234–14	4	Screw–HHF
8	92–8972	2	Clamp–Seat
9	93–7251	1	Decal–Blank
9	95–0646	1	Decal–Service
10	74–0340	2	Cushion–Rubber
11	95–0637–03	1	Plate–Seat
12	92–8973	2	Angle
13	95–5840–03	1	Shield–Base, Seat
14	3296–42	2	Nut–Lock, NI
15	321–4	2	Screw–HH
16	86–7610–03	1	Mount–Seat
17	51–0790	1	Adjuster–Seat, LH
18	51–0780	1	Slider–Seat
19	3274–12	4	Screw–HSH
20	322–5	2	Screw–HH

Ref. No.	Part No.	Qty.	Description

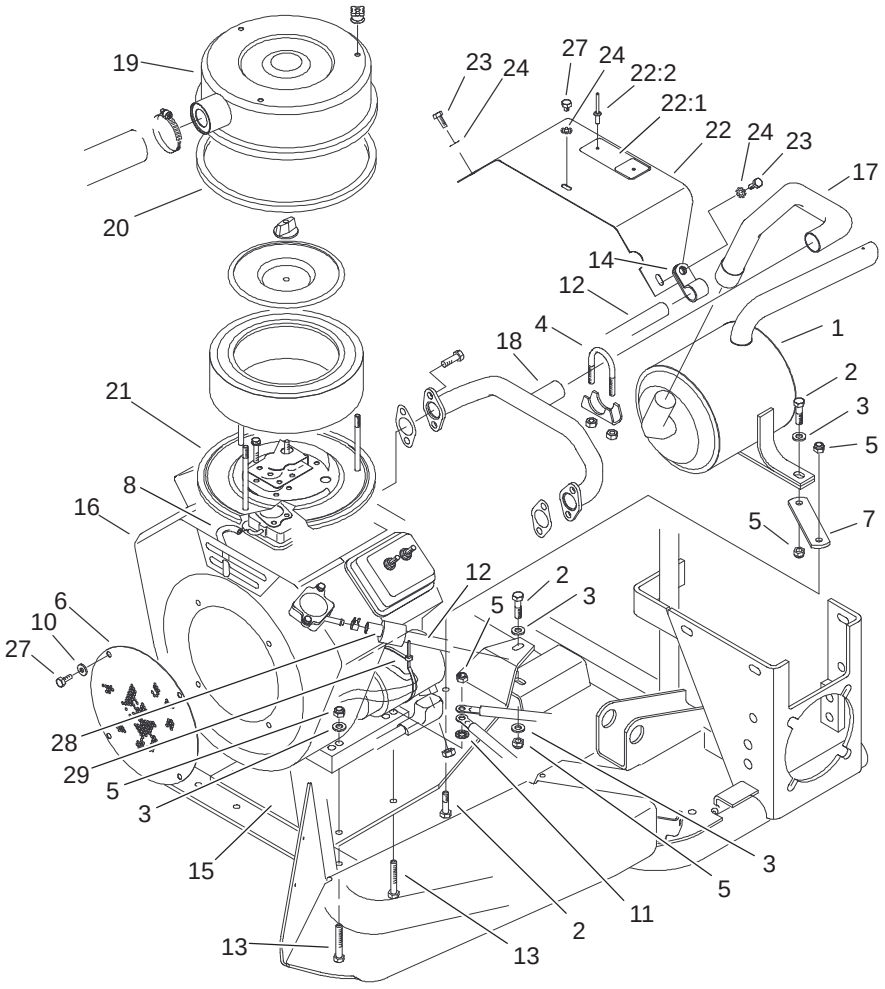


Sheet No.:8

Fuel Tank Assembly

Ref. No.	Part No.	Qty.	Description
1	93–7170	1	Cap–Fuel
2	92–7186	1	Tank–Fuel
3	240–11	4	Grommet–Mount, Tank
4	95–0576–03	1	Base–Tank, Fuel
5	3296–39	3	Nut–Lock, NI
6	3250–36	4	Screw–PPH
7	2412–36	2	Clamp–Hose
8	92–7152	1	Hose–Fuel
9	92–7160	1	Clip
10	32103–12	2	Nut–Wing
11	3256–22	2	Washer–Flat
12	92–5018–03	1	Clamp–Battery
13	323–6	3	Screw–HH
14	3256–24	3	Washer–Flat
15	92–1678	1	Battery
16	56–7720	2	Post–Battery
17	3296–29	2	Nut–Lock, NI
18	322–3	2	Screw–HH
19	3296–42	1	Nut–Lock, NI
20	2412–73	1	Clamp–R
21	3274–69	1	Screw–HSBH
22	95–0618	1	Hose–Line, Gas
23	2412–98	4	Clamp
24	83–1390	1	Fitting–Shut–Off, Fuel
25	240–9	3	Grommet

Ref. No.	Part No.	Qty.	Description
26	86–7640–01	1	Box–Litter
27	86–7450	1	Cable–Ground
28	63–8410	4	Washer
29	93–6668	1	Decal–Battery
30	93–7276	1	Decal–Danger
31	94–2690	1	Filter–Fuel

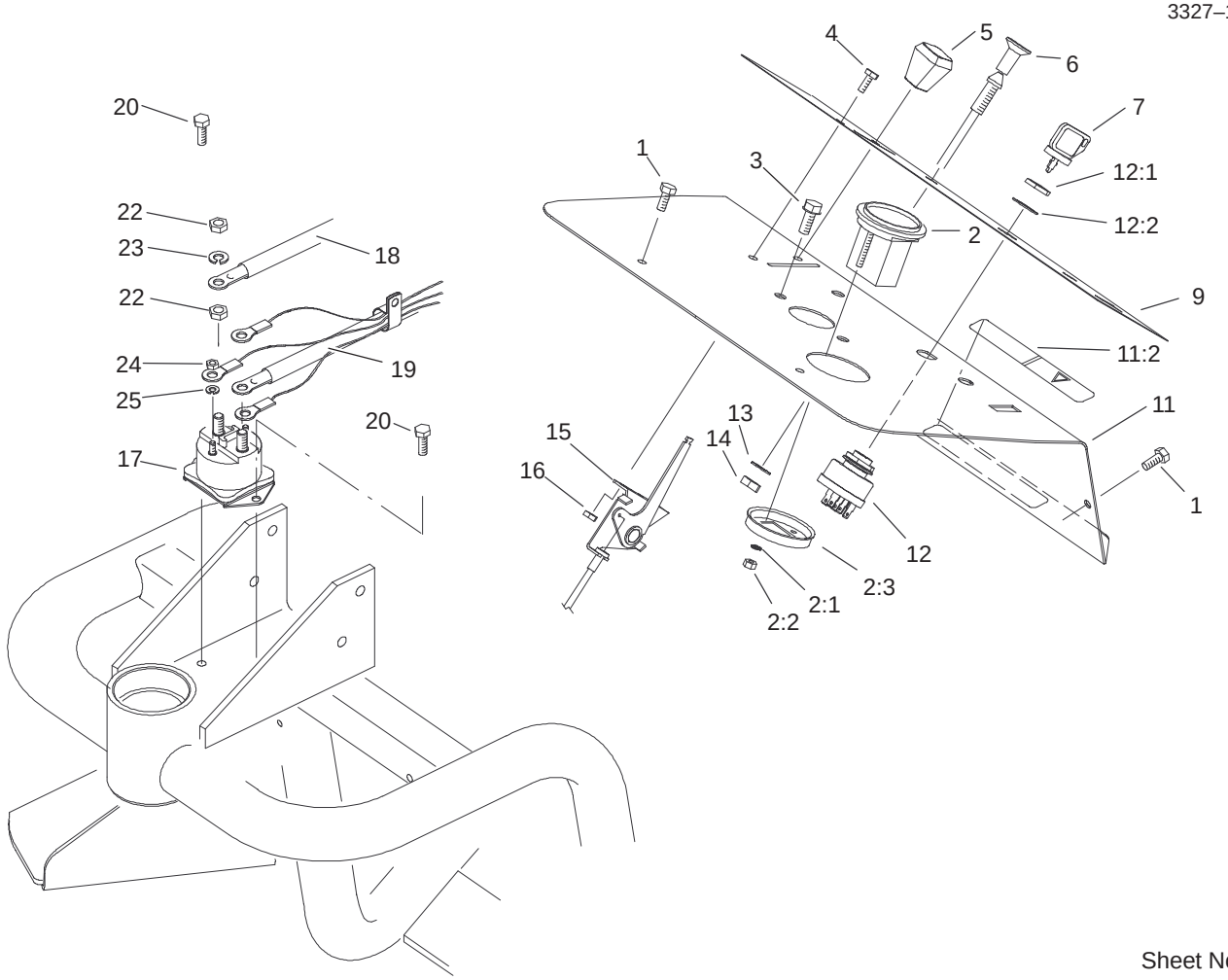


Sheet No.:9

Engine Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	95–0552	1	Muffler
2	322–5	3	Screw–HH
3	3256–23	6	Washer–Flat
4	95–0586	2	Clamp–Muffler
5	3296–29	7	Nut–Lock, NI
6	92–8996–03	1	Screen
7	95–0557	1	Bracket–Muffler
8	75–4705	1	Hose–Fuel
10	3256–1	4	Washer–Flat
11	3255–8	1	Washer–Lock/Ext
12	94–4522	1	Hose–Breather
13	322–10	4	Screw–HH
14	2412–73	1	Clamp–R
15	95–0556–03	1	Base–Engine
16	98–0940	1	Engine–16hp, B&s 303447–1180–E1
17	95–0551	1	Tube – Exhaust
18	95–0550	1	Manifold–Exhaust
19	85–8370–03	1	Cover–Cleaner, Air
20	85–8360	1	Gasket–Ring
21	85–8430–03	1	Base–Cleaner, Air
22	105–8523	1	Muffler Shield ASM
22:1	95–0645	1	Plate–Surface, Hot
22:2	3269–32	2	Rivet–Pop
23	33113–012	2	Screw–HH
24	3255–7	3	Washer–Lock/Ext

Ref. No.	Part No.	Qty.	Description
27	33113–008	5	Screw–HH
28	38–3400	1	Guard–Rubber
29	3290–379	1	Tie–Cable



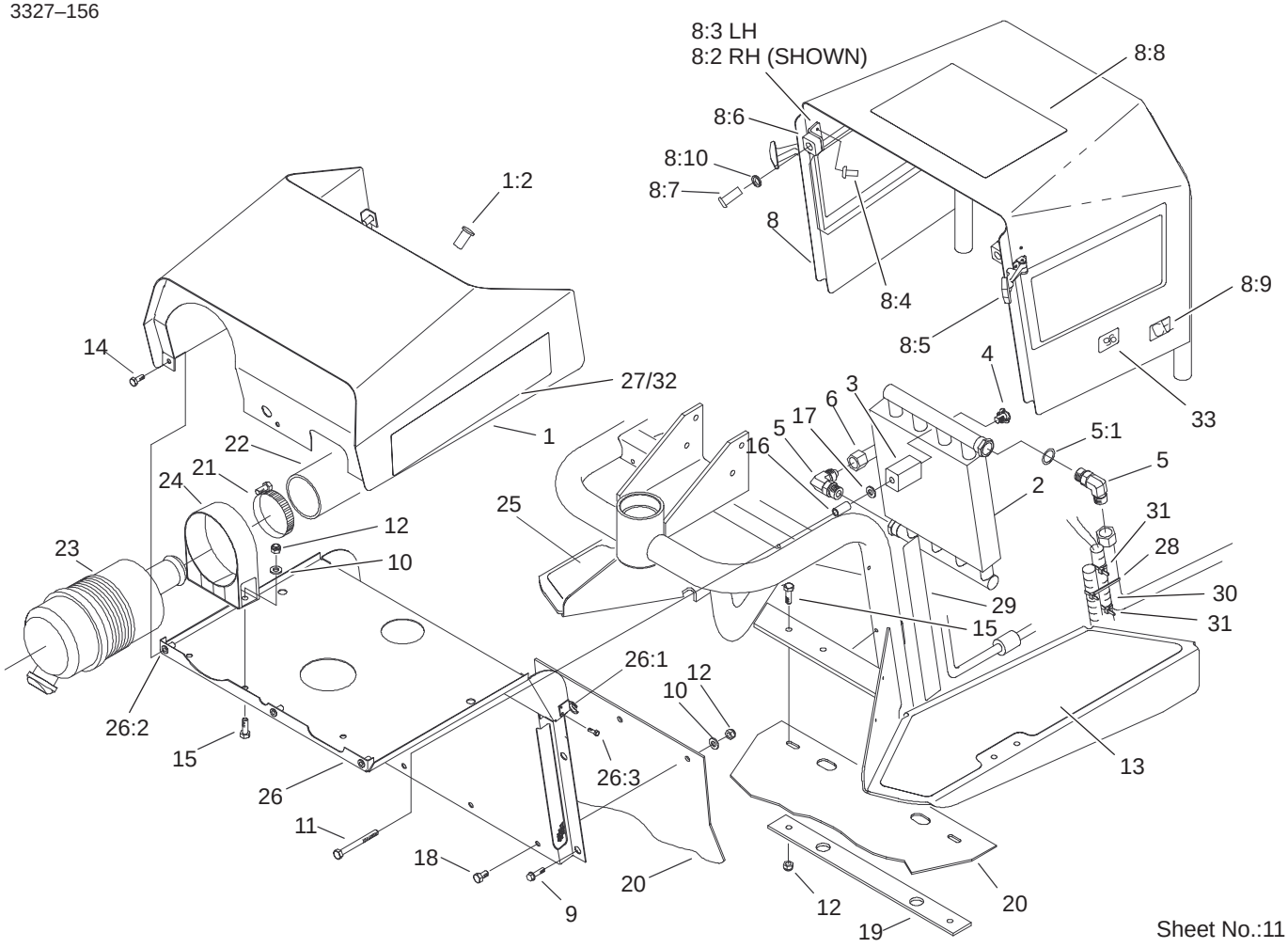
Sheet No.:10

Dash Panel Assembly

Ref. No.	Part No.	Qty.	Description
1	3234–33	4	Screw–HHF
2	66–2950	1	Gauge–Hourmeter
2:1	3255–20	2	Washer–Lock
2:2	3217–25	2	Nut–Hex
☆2:3		1	Clamp–Gauge
3	32144–11	2	Screw–TAP
4	32105–2	2	Screw–SHWH
5	66–0120	1	Knob
6	95–0597	1	Control–Choke
7	63–8360	2	Key–Ignition
9	95–0648	1	Decal
11	105–8524	1	Dash Panel ASM
11:2	93–9052	1	Decal–Danger
12	83–0020	1	Switch–Starter
12:1	218–461	1	Nut–HH
12:2	3254–5	1	Washer–Lock, Internal
13	3254–6	1	Washer–Lock, Internal
14	3219–3	1	Nut–HH
15	95–0598	1	Control–Throttle
16	3296–12	2	Nut–Lock
17	28–4210	1	Solenoid
18	95–5825	1	Wire ASM
*18:1	83–2430	1	Boot–Terminal
19	95–0599	1	Wire ASM
*19:1	28–8080	1	Boot–Terminal
20	32104–95	2	Screw–HWH

Ref. No.	Part No.	Qty.	Description
22	3218–13	2	Nut–Jam
23	3253–4	2	Washer–Lock
24	3219–14	2	Nut–Hex
25	3253–17	2	Washer–Lock/Sp

☆ Not serviced separately
* Not illustrated

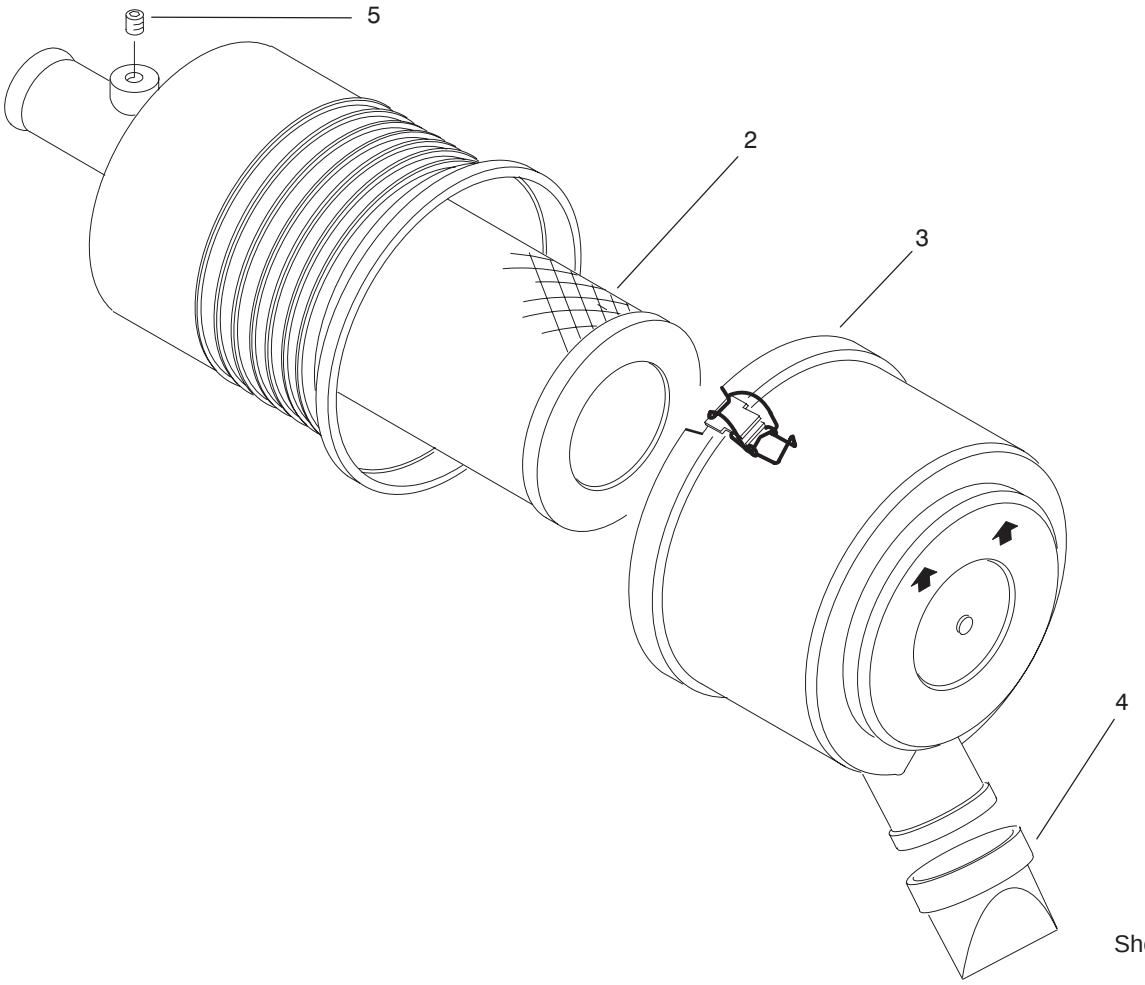


Sheet No.:11

Shroud and Oil Cooler Assembly

Ref. No.	Part No.	Qty.	Description
1	99–1644	1	Dash Shroud ASM
1:2	32148–6	4	Nut–Insert
2	92–8997	1	Cooler–Oil
3	85–9550	2	Clamp–Rubber
4	85–9670	2	Nut
5	353–371	2	Elbow–90°
5:1	237–79	1	O–Ring
6	95–0643	1	Tube–Valve To Cooler
8	95–0610	1	Engine Cover ASM
8:2	95–0611	1	Bracket–RH
8:3	95–0612	1	Bracket–LH
8:4	3269–8	6	Rivet
8:5	117344	2	Handle ASM {A–089–0112}
8:6	94–1392	2	Pad–Rubber
8:7	3269–28	2	Rivet–Pop
8:8	92–8985	1	Decal–Operating
8:9	93–7252	1	Decal–International
8:10	3256–14	2	Washer–Flat
9	46–8560	6	Screw–HHF
10	3256–23	4	Washer–Flat
11	322–14	2	Screw–HH
12	3296–29	6	Nut–Lock, NI
13	92–7159	1	Tread–Floor, LH
14	3234–33	3	Screw–HHF
15	322–5	4	Screw–HH

Ref. No.	Part No.	Qty.	Description
16	95–5807	2	Spacer
17	3256–82	2	Washer–Flat
18	322–2	2	Screw–HH
19	95–0620–01	1	Strip–Retainer
20	95–5826	1	Shield–Rubber
21	2412–92	2	Clamp–Hose
22	95–0582	1	Hose–Intake, Air
23	95–5805	1	Air Cleaner ASM
24	95–5806	1	Bracket–Mounting
25	92–7158	1	Tread–Floor, RH
26	95–5817	1	Front Shield ASM
26:1	249–40	2	Keeper
26:2	32148–6	3	Nut–Insert
26:3	3269–8	4	Rivet
27	95–0607	2	Decal–Sp3020
28	3290–379	2	Tie–Cable
29	95–5828	2	Strip–Wear
30	94–4519	1	Tube–Convolute
31	3290–378	2	Tie–Cable
32	95–7861	2	Decal–Infield, Pro 3020
33	105–7872	1	Decal–Noise, Ce

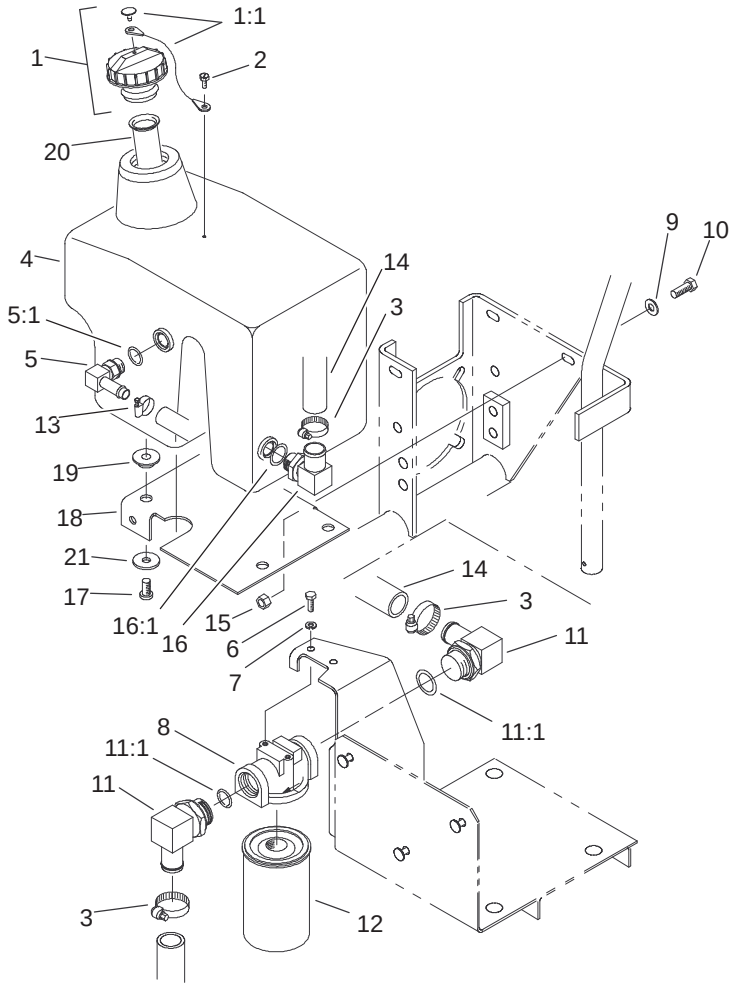


Sheet No.:A6
T–2607

Air Cleaner Assembly No. 95–5805

Ref. No.	Part No.	Qty.	Description
2	93–2195	1	Filter
3	94–3652	1	Cover ASM
4	94–1414	1	Valve–Vacuator
5	285–17	1	Plug–Pipe

Ref. No.	Part No.	Qty.	Description

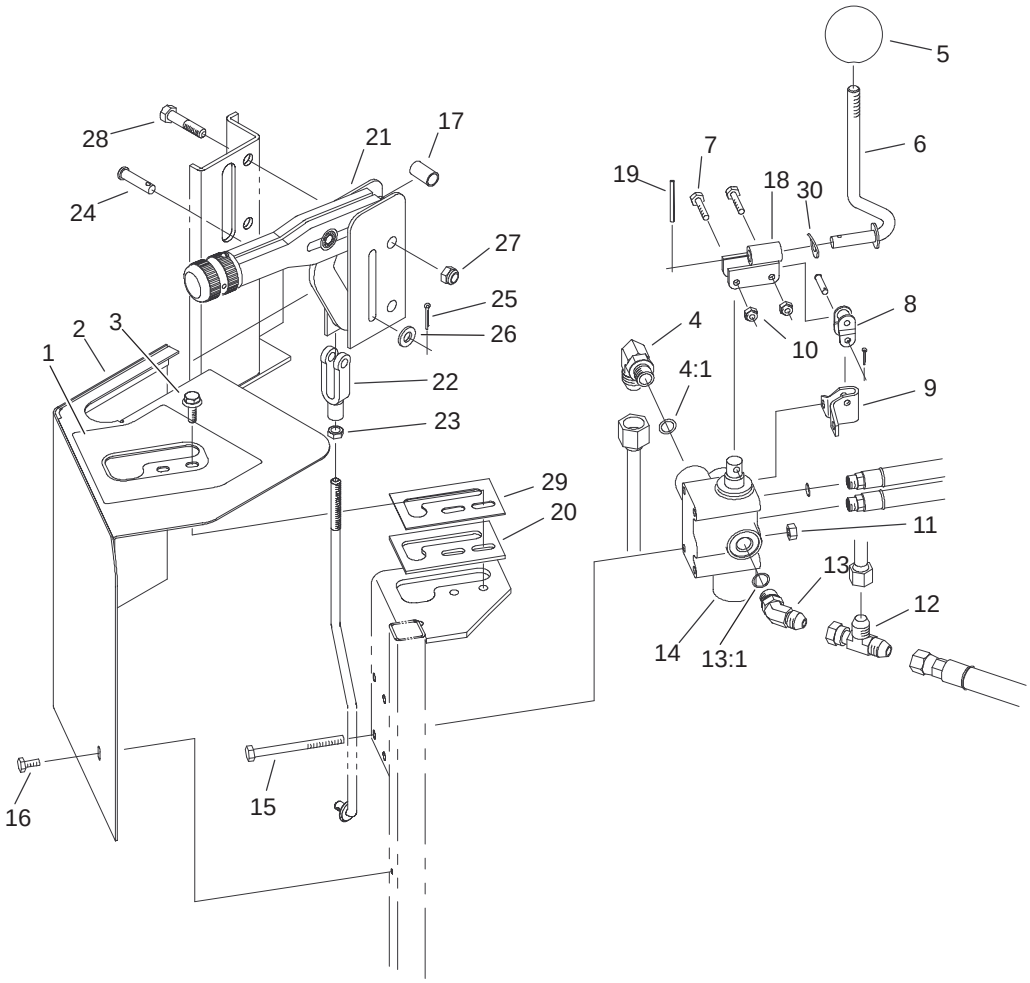


Sheet No.:12

Hydraulic Oil Reservoir and Filter Assembly

Ref. No.	Part No.	Qty.	Description
1	93–4365	1	Cap–Oil
1:1	75–0540	1	Tether & Button Kit
2	57–5420	1	Screw–Shoulder
3	2412–129	4	Clamp–Hose
4	98–0968	1	Tank–HYD
5	354–120	1	Fitting–HYD, 90°
5:1	237–79	1	O–Ring
6	321–3	2	Screw–HH
7	3253–3	2	Washer–Lock
8	68–8990	1	Filter Head ASM
9	3256–24	3	Washer–Flat
10	323–6	3	Screw–HH
11	353–987	2	Fitting–HYD, 90°
11:1	237–81	1	O–Ring
12	23–9740	1	Filter–Oil
13	2412–36	1	Clamp–Hose
14	98–8152	1	Hose–Suction
15	3296–39	3	Nut–Lock, NI
16	95–0629	1	Fitting–Hose, Push On
16:1	237–80	1	O–Ring
17	3250–36	3	Screw–PPH
18	95–0590–03	1	Base–Tank, HYD
19	240–11	4	Grommet–Mount, Tank
20	92–1705	1	Filter–Screen
21	63–8410	3	Washer

Ref. No.	Part No.	Qty.	Description

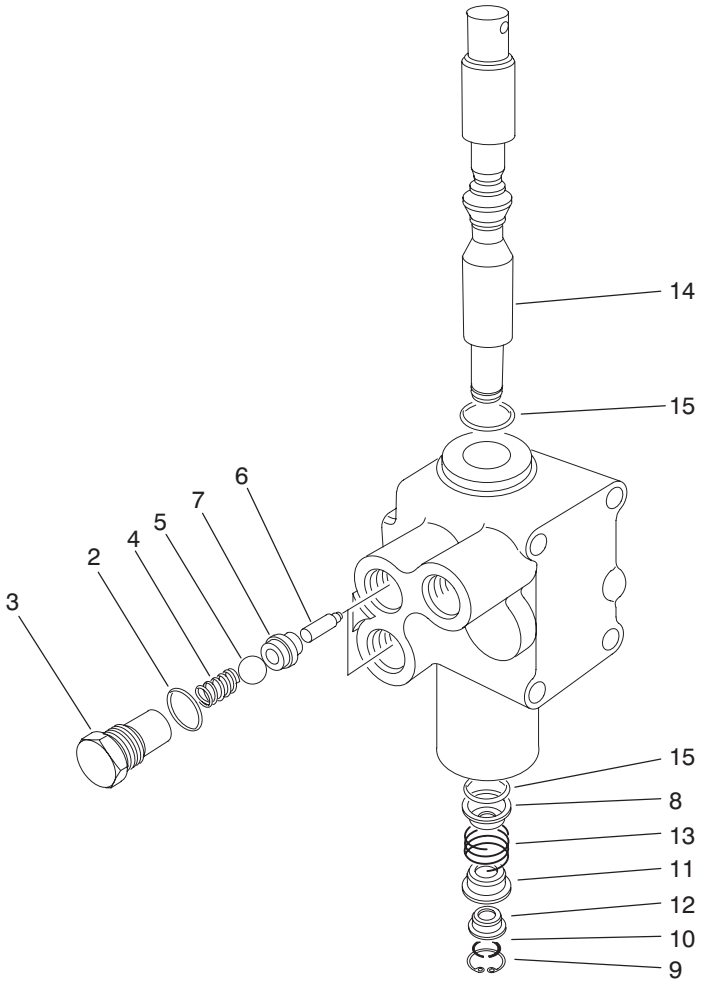


Sheet No.:13

Lift Valve Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	95–0647	1	Decal–Controls
2	95–0601–01	1	Vavle Shroud ASM
3	3234–33	2	Screw–HHF
4	353–511	1	Elbow–90°
4:1	237–42	1	O–Ring
5	233–21	1	Knob
6	92–8981	1	Lift Lever ASM
7	3290–360	2	Screw–HH
8	2710–20	1	Link–Offset
9	88–8480	1	Bracket–Pivot
10	3296–2	2	Nut–Lock
11	3296–42	4	Nut–Lock, NI
12	353–877	1	Swivel–Tee–Run
13	353–212	1	Elbow
13:1	237–42	1	O–Ring
14	43–1710–01	1	Valve ASM
15	321–23	4	Screw–HH
16	32104–76	1	Screw
17	85–0290	2	Spacer–Pivot, Seat
18	92–8983	1	Pivot
19	32121–73	1	Pin–Roll
20	21–8640	1	Latch–Lever, Valve
21	95–0636	1	Lever–Brake
22	282–2	1	Yoke
23	3220–2	1	Nut
24	283–14	1	Pin–Clevis

Ref. No.	Part No.	Qty.	Description
25	3272–6	1	Pin–Cotter
26	3256–23	1	Washer–Flat
27	3296–29	2	Nut–Lock, NI
28	322–8	2	Screw–HH
29	95–5833	1	Guide–Lever
30	3290–477	1	Washer–Curved

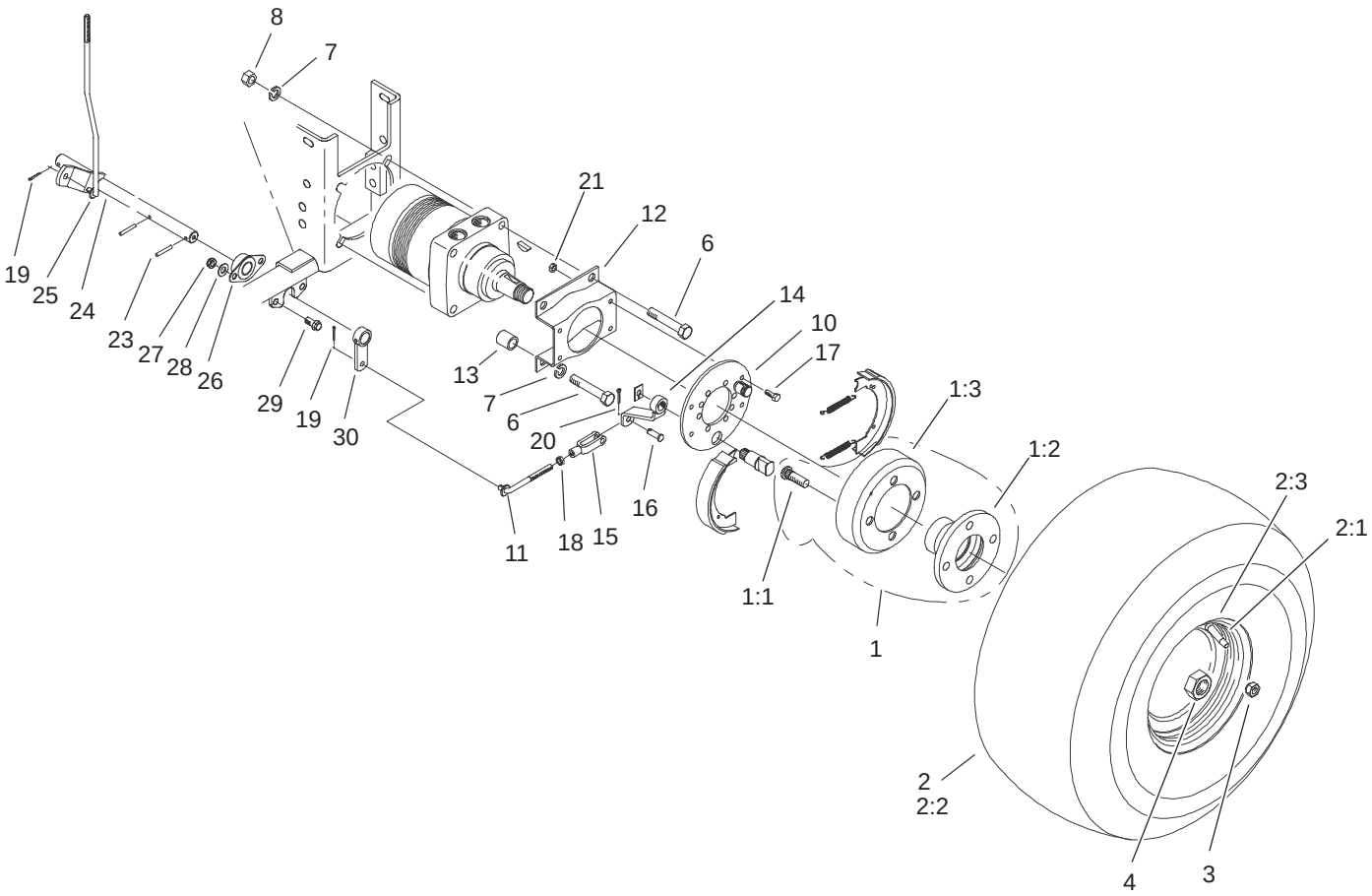


Sheet No.:A7
T–0428

Valve Assembly No. 43–1710–01

Ref. No.	Part No.	Qty.	Description
2	237–42	2	O–Ring
3	22–8330	2	Plug
4	22–8340	2	Spring
5	22–8350	2	Ball
6	22–8360	2	Pin
7	22–8370	2	Seat–Valve
8	22–8380	1	Retainer
9	22–8490	1	Ring–Snap
10	22–8480	1	Ring–Snap
11	22–8390	1	Retainer
12	22–8400	1	Spacer
13	22–8410	1	Spring
14	22–8420	1	Spool
15	22–8500	2	O–Ring

Ref. No.	Part No.	Qty.	Description



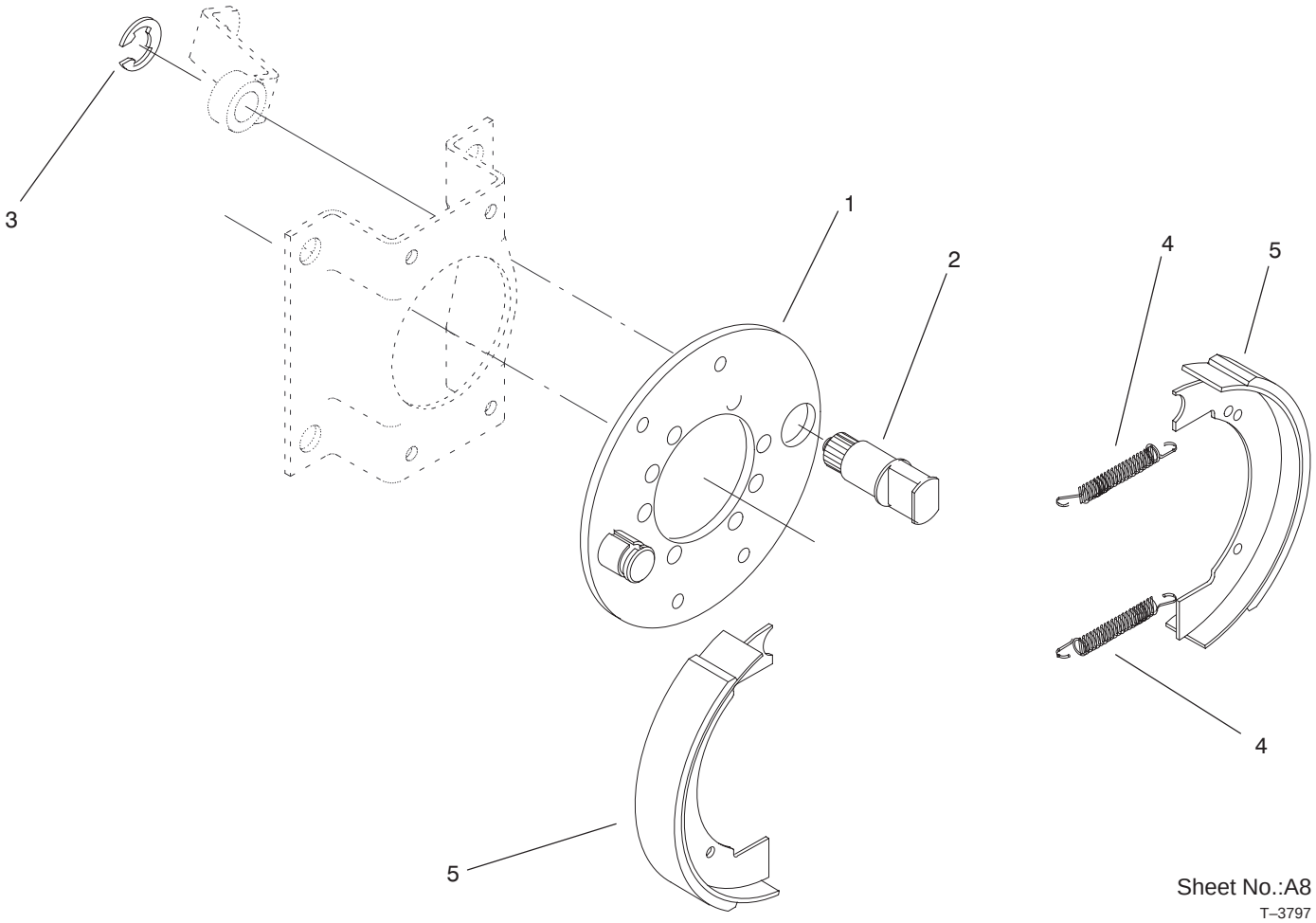
Sheet No.:14

Brake Installation Assembly

Ref. No.	Part No.	Qty.	Description
1	17–8149	2	Wheel Hub ASM
1:1	85–6540	4	Stud–Drive
1:2	93–6838–03	1	Hub–Wheel
1:3	10–6850	1	Drum–Brake
2		2	Wheel & Tire ASM
2:1	232–35	1	Stem–Valve
2:2	85–8290	1	Tire
2:3	94–6116	1	Wheel–Rear
3	242–50	8	Nut–Lug
4	26–3790	2	Nut–Lock
6	325–14	8	Screw–HH
7	3253–7	8	Washer–Lock
8	3217–9	4	Nut–HH
10	104–7705	2	Brake ASM
11	84–1990	2	Rod–Adjusting
12	84–2000–03	2	Bracket–Brake
13	92–1715	8	Spacer
14	93–6850	2	Lever–Brake
15	282–2	2	Yoke
16	283–1	2	Pin–Yoke
17	321–4	8	Screw–HH
18	3220–2	2	Nut
19	3272–6	3	Pin–Cotter
20	3272–10	2	Pin–Cotter
21	3296–42	8	Nut–Lock, NI
23	32121–6	3	Pin–Roll

Ref. No.	Part No.	Qty.	Description
24	95–0625	1	Rod–Traverse
25	95–0628	1	Rod–Brake
26	27–2320	2	Bearing
27	3296–59	4	Nut–Lock, NI
28	3256–24	4	Washer–Flat
29	3234–1	4	Screw–HHF
30	83–9310	2	Lever–Brake, RH

3327–156



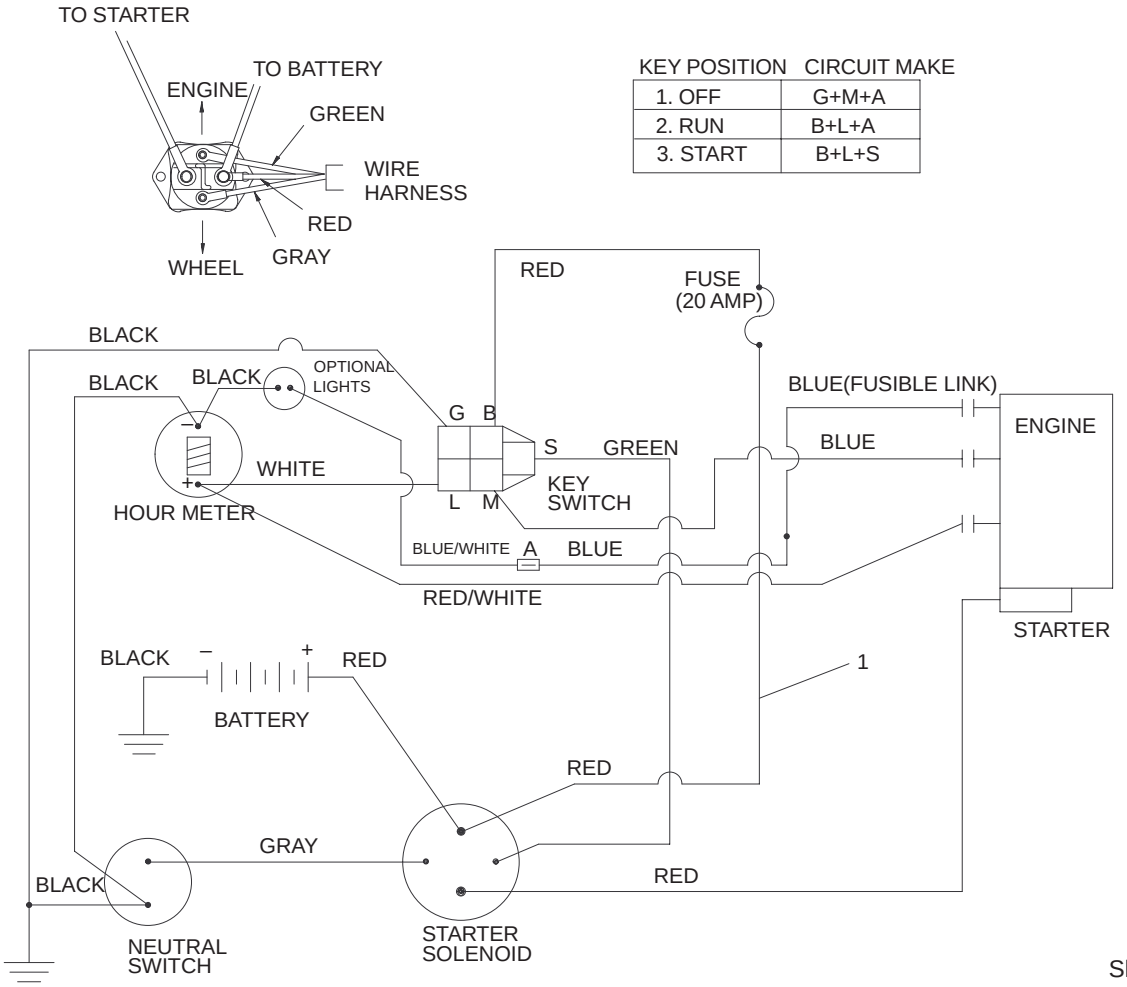
Sheet No.:A8

T–3797

Brake Assembly No. 104–7705

Ref. No.	Part No.	Qty.	Description
1	70–9870	1	Plate–Backing
2	104–7707	1	Shaft–Cam, Brake
3	104–7706	1	E–Ring, Bowed
4	70–9880	2	Spring–Return
5	70–9840	2	Shoe–Brake

Ref. No.	Part No.	Qty.	Description



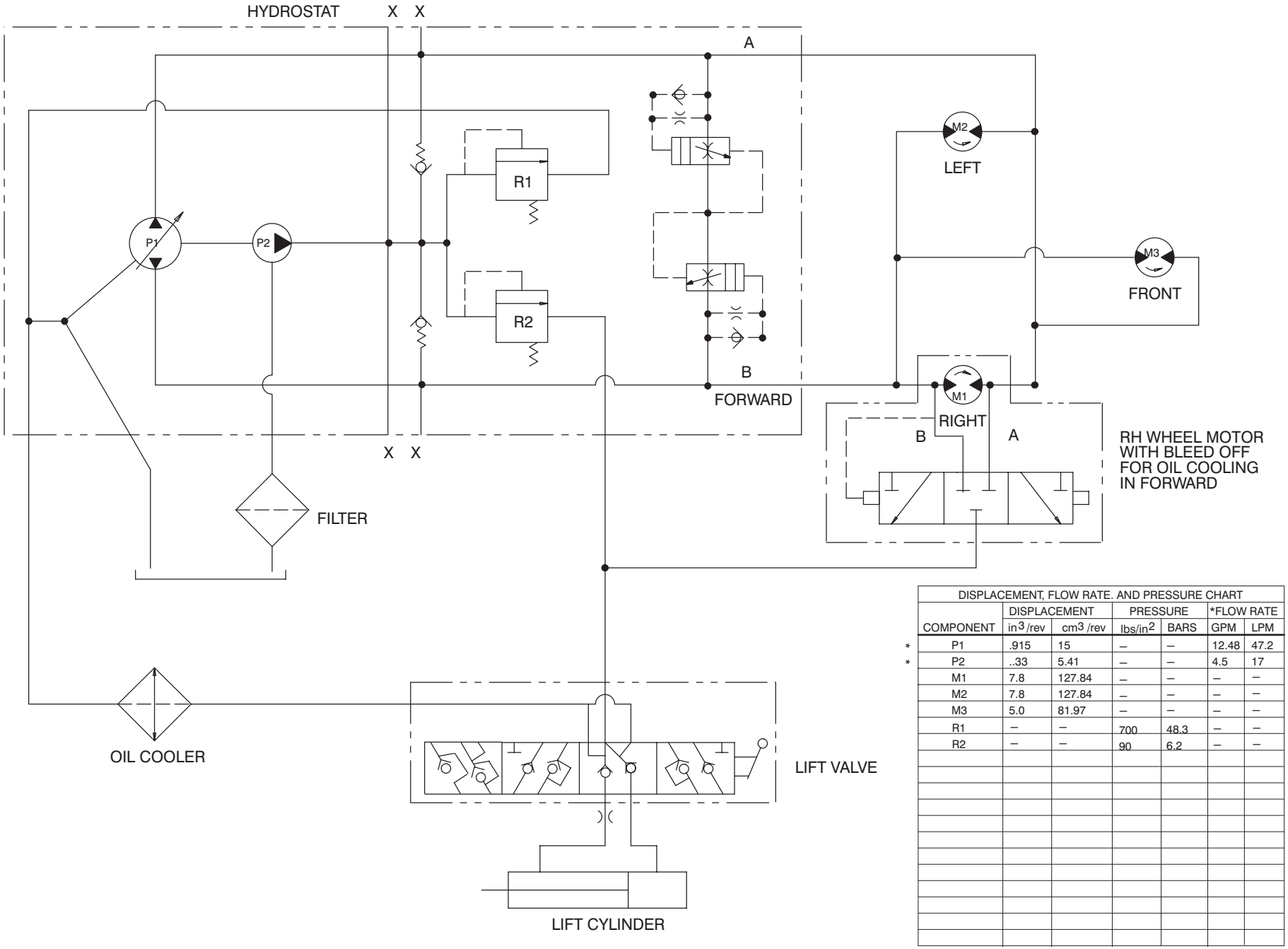
Sheet No.:15

Electrical Schematic

Ref. No.	Part No.	Qty.	Description
1	95–0574	1	Harness–Wire

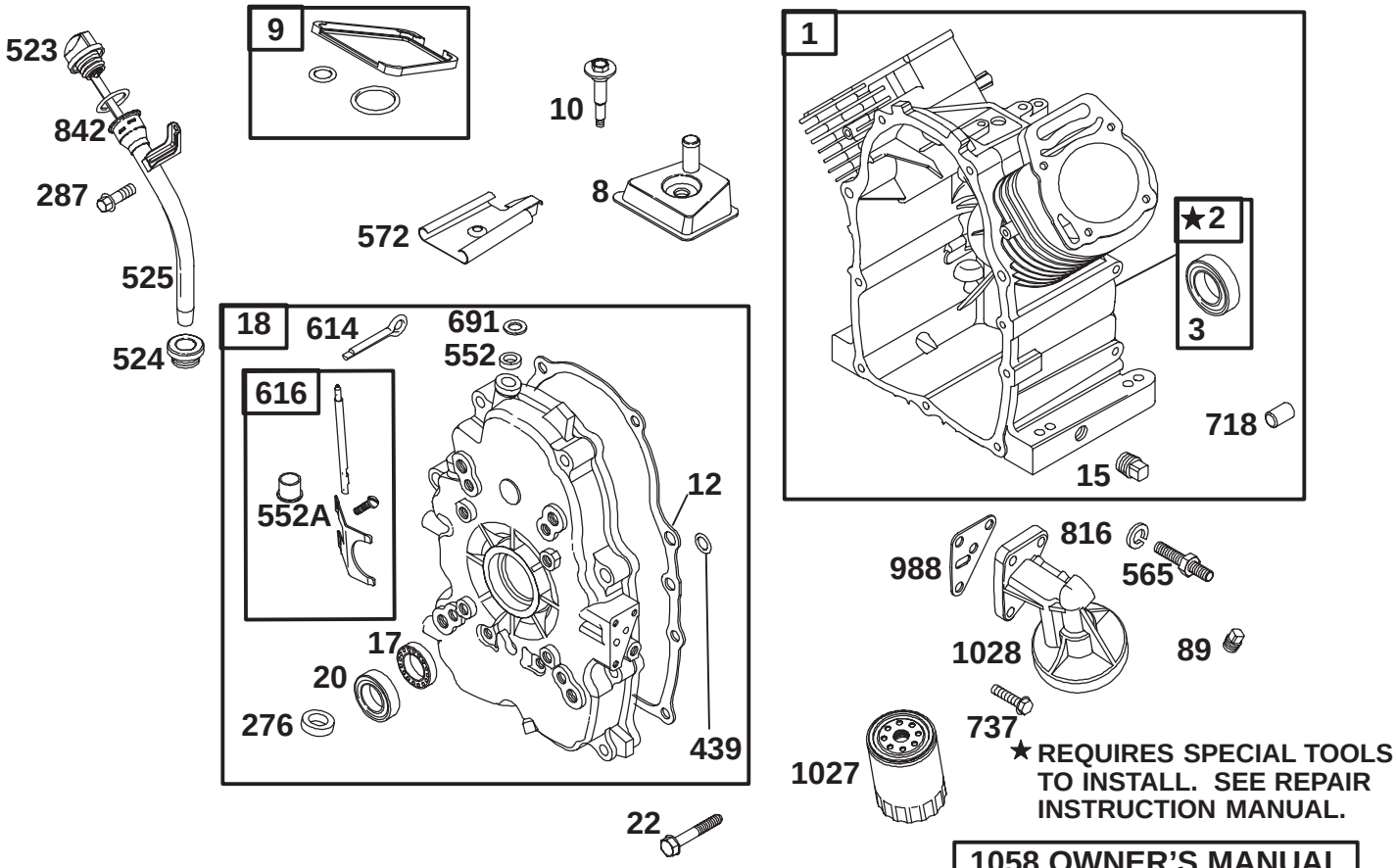
Ref. No.	Part No.	Qty.	Description

Hydraulic Schematic



DISPLACEMENT, FLOW RATE. AND PRESSURE CHART						
	DISPLACEMENT		PRESSURE		*FLOW RATE	
COMPONENT	in^3/rev	cm^3/rev	lbs/in^2	BARS	GPM	LPM
* P1	.915	15	–	–	12.48	47.2
* P2	..33	5.41	–	–	4.5	17
M1	7.8	127.84	–	–	–	–
M2	7.8	127.84	–	–	–	–
M3	5.0	81.97	–	–	–	–
R1	–	–	700	48.3	–	–
R2	–	–	90	6.2	–	–

* FLOW RATE CALCULATED AT 3150 RPM



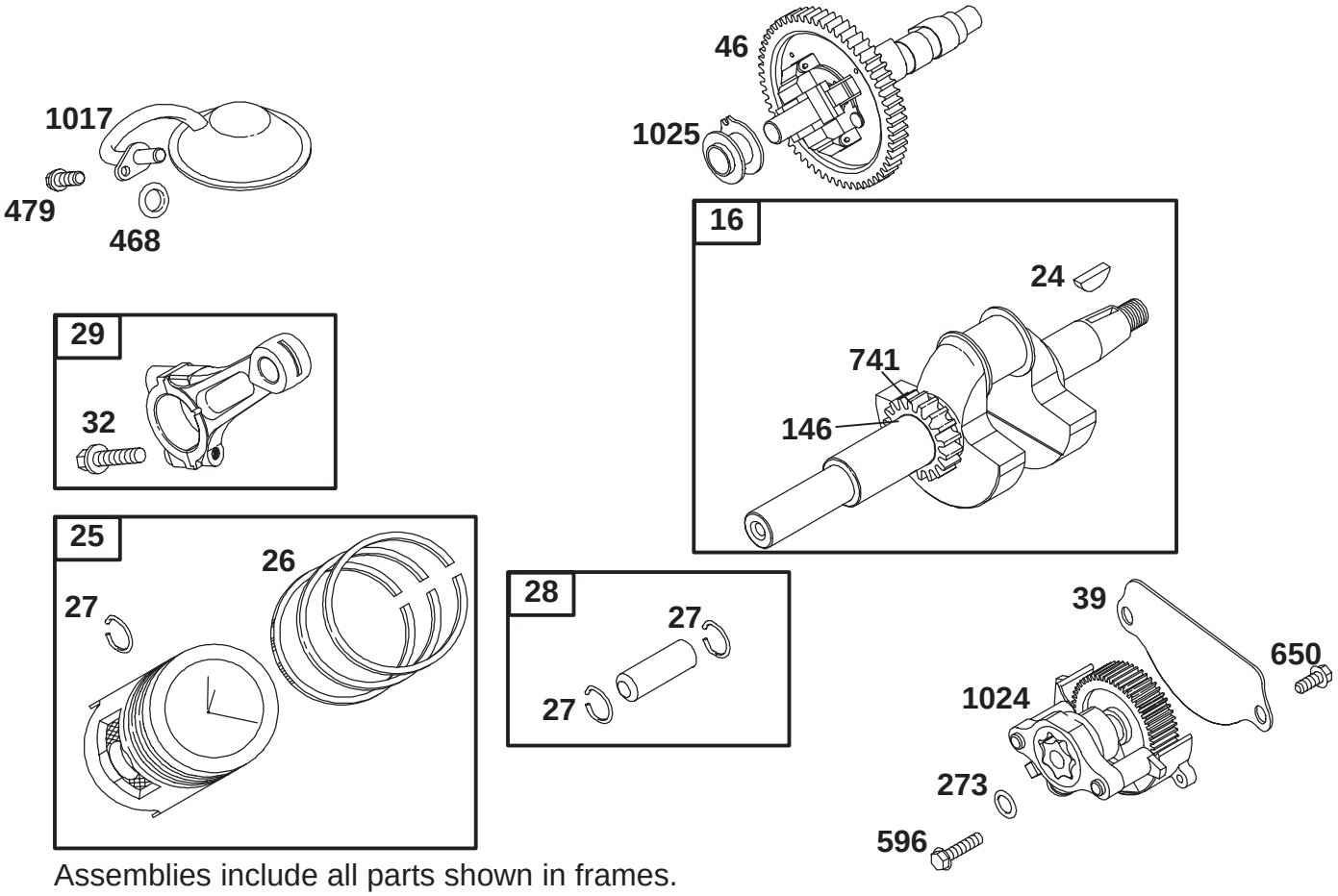
Assemblies include all parts shown in frames.

Cylinder Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
1	692178	1	Cylinder Assembly
2	808534	1	Bushing/Seal Kit
⋆3	805101	1	Oil Seal
8	807795	1	Breather Assembly
⋆9	807688	1	Breather Gasket
10	805751	1	Screw (Breather Assembly)
12	806190	1	Crankcase Cover Gasket
15	805048	1	Oil Drain Plug
17	690752	1	Ball Bearing
18	808847	1	Crankcase Cover
⋆20	805049	1	Oil Seal
22	692540	1	Screw (Crankcase Cover)
89	690283	1	Oil Plug
276	690704	1	Sealing Washer
287	805247	1	Screw (Dipstick Tube)
439	692154	1	O-Ring Seal (Crankcase Cover)
523	807977	1	Dipstick
⋆524	281370	1	Dipstick Tube Seal
525	807584	1	Dipstick Tube

Ref. No.	Part No.	Qty.	Description
552	690701	1	Governor Shaft Bushing
552A	806686	1	Governor Shaft Bushing
565	690706	1	Stud (Oil Filter Adapter)
572	805197	1	Breather Baffle
614	691550	1	Cotter Pin
616	806685	1	Governor Crank
⋆691	690680	1	Governor Shaft Seal
718	690684	1	Locating Pin
737	690679	1	Screw (Oil Filter Adapter)
816	690706	1	Washer (Oil Filter Adapter)
⋆842	805386	1	Dipstick/Tube Seal
⋆988	805250	1	Oil Adapter Gasket
1027	492932	1	Oil Filter
1028	808325	1	Oil Filter Adapter
1058	274272	1	Owner's Manual

⋆Included in Engine Gasket Set — Part No. 808390.



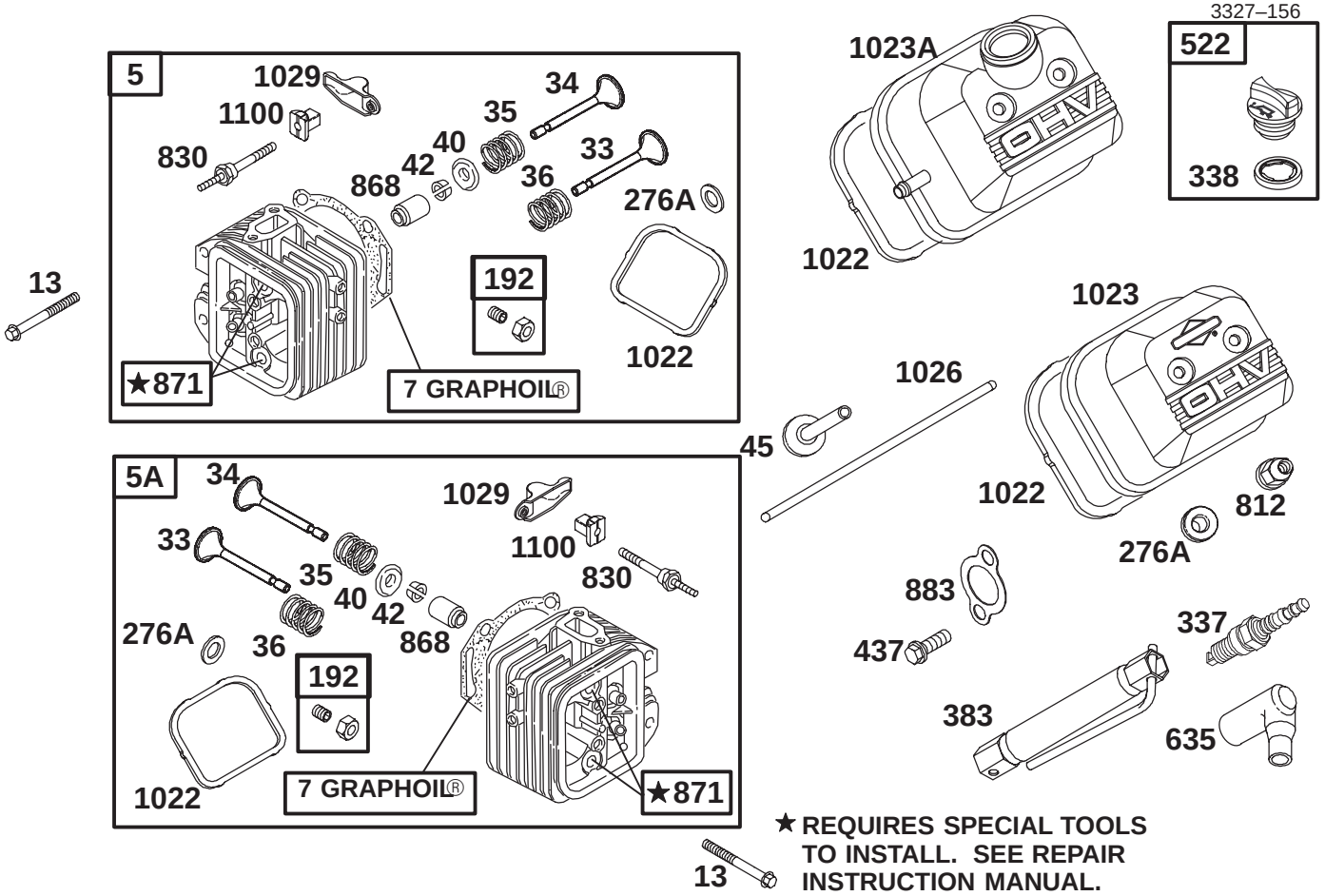
Assemblies include all parts shown in frames.

Crankshaft Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
16	692168	1	Crankshaft
24	806066	1	Flywheel Key
25	807619	1	Piston Assembly (Standard)
	Note:		
	807807	1	Piston ASM (.010 O.S.)
	807809	1	Piston ASM (.020 O.S.)
	807811	1	Piston ASM (.030 O.S.)
26	807620	1	Ring Set (Standard)
	Note:		
	807808	1	Ring Set (.010 O.S.)
	807810	1	Ring Set (.020 O.S.)
	807812	1	Ring Set (.030 O.S.)
27	690683	1	Piston Pin Lock
28	807621	1	Piston Pin Assembly
29	807900	1	Connecting Rod (Standard)
	Note:		
	807809	1	Connecting Rod (.020 U.S.)
32	690698	1	Screw (Connecting Rod)
39	690745	1	Oil Deflector
46	691557	1	Cam Shaft

Ref. No.	Part No.	Qty.	Description
146	94196	1	Timing Key
⋆273	690681	1	O−Ring Seal (Oil Pump)
⋆468	690690	1	O−Ring Seal (Oil Pump Screen)
479	692537	1	Screw (Oil Pump Screen)
596	691492	1	Screw (Oil Pump)
650	692539	1	Screw (Oil Deflector)
741	691530	1	Timing Gear
1017	690900	1	Oil Pump Screen
1024	693185	1	Oil Pump
1025	690689	1	Governor Spool

*Included in Engine Gasket Set — Part No. 808390.



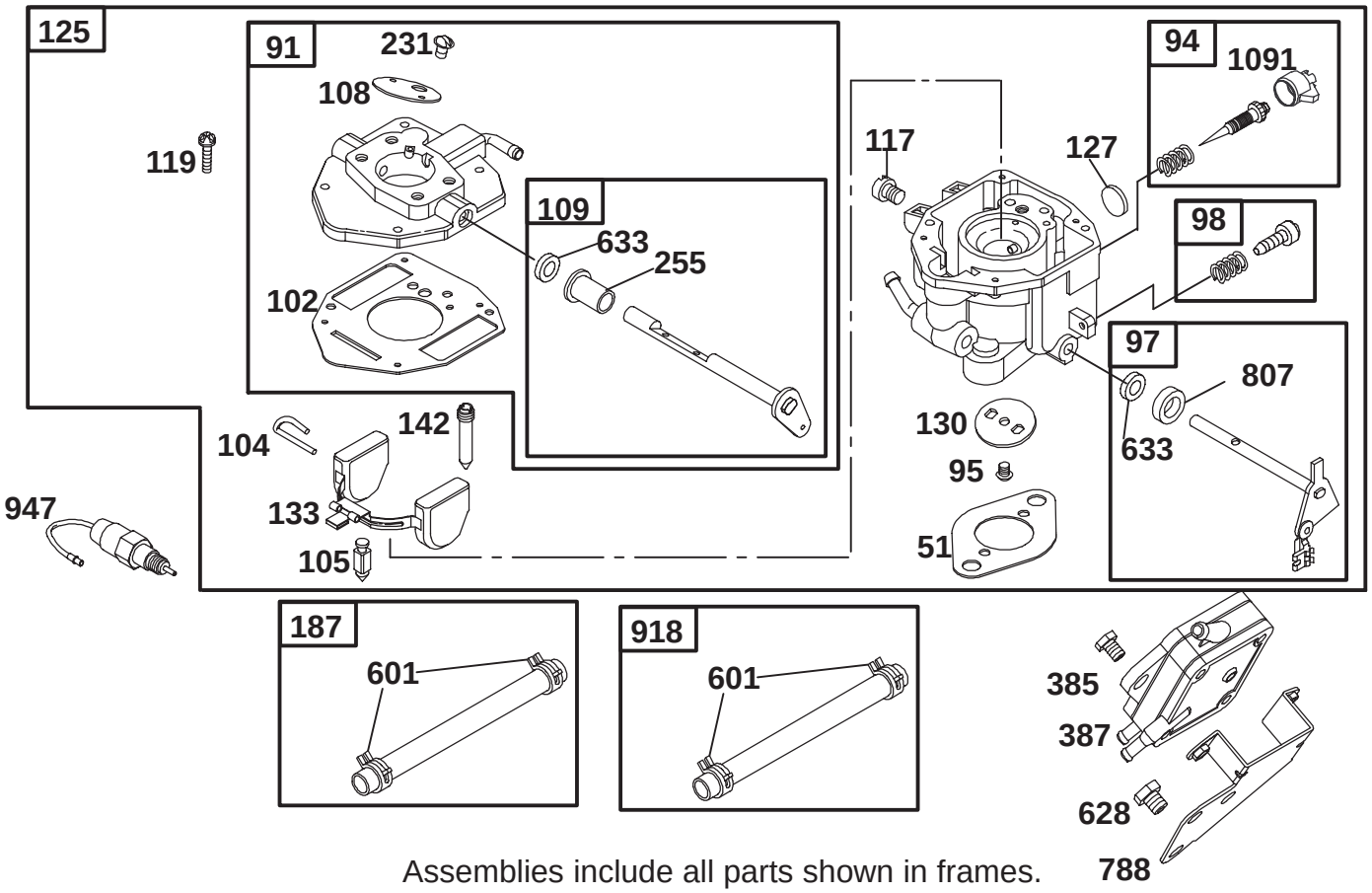
Assemblies include all parts shown in frames.

Crankcase Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
5	808381	1	Cylinder Head (Cylinder #1)
5A	808382	1	Cylinder Head (Cylinder #2)
★Δ7	806085	1	Cylinder Head Gasket
13	805097	1	Screw (Cylinder Head)
33	807681	1	Exhaust Valve
34	807680	1	Intake Valve
35	805937	1	Valve Spring (Intake)
36	805937	1	Valve Spring (Exhaust)
40	805092	1	Valve Retainer
42	807683	1	Valve Retainer
45	262679	1	Valve Tappet
192	807623	1	Rocker Arm Adjuster
★Δ276A	805420	1	Sealing Washer
337	496018	1	Spark Plug
★Δ338	691312	1	Dipstick Gasket
383	19374	1	Spark Plug Wrench
522	491832	1	Dipstick/Fill Plug
437	805158	1	Screw (Exhaust Manifold)

Ref. No.	Part No.	Qty.	Description
635	805529	1	Spark Plug Elbow
Δ812	805019	1	Nut (Rocker Arm Cover)
830	691544	1	Stud (Rocker Arm)
868	805094	1	Valve Seal
871	805084	1	Guide Bushing
★Δ883	805024	1	Exhaust Gasket
★Δ1022	806039	1	Rocker Cover Gasket
1023	691494	1	Rocker Arm Cover
1023A	690910	1	Rocker Arm Cover
1026	805352	1	Push Rod (Intake Valve)
	Note:		
	805617	1	Push Rod (Exhaust Valve)
1029	691543	1	Rocker Arm
1100	690973	1	Rocker Arm Pivot

★Included in Engine Gasket Set — Part No. 808390.
ΔIncluded in Valve Gasket Set — Part No. 808392.



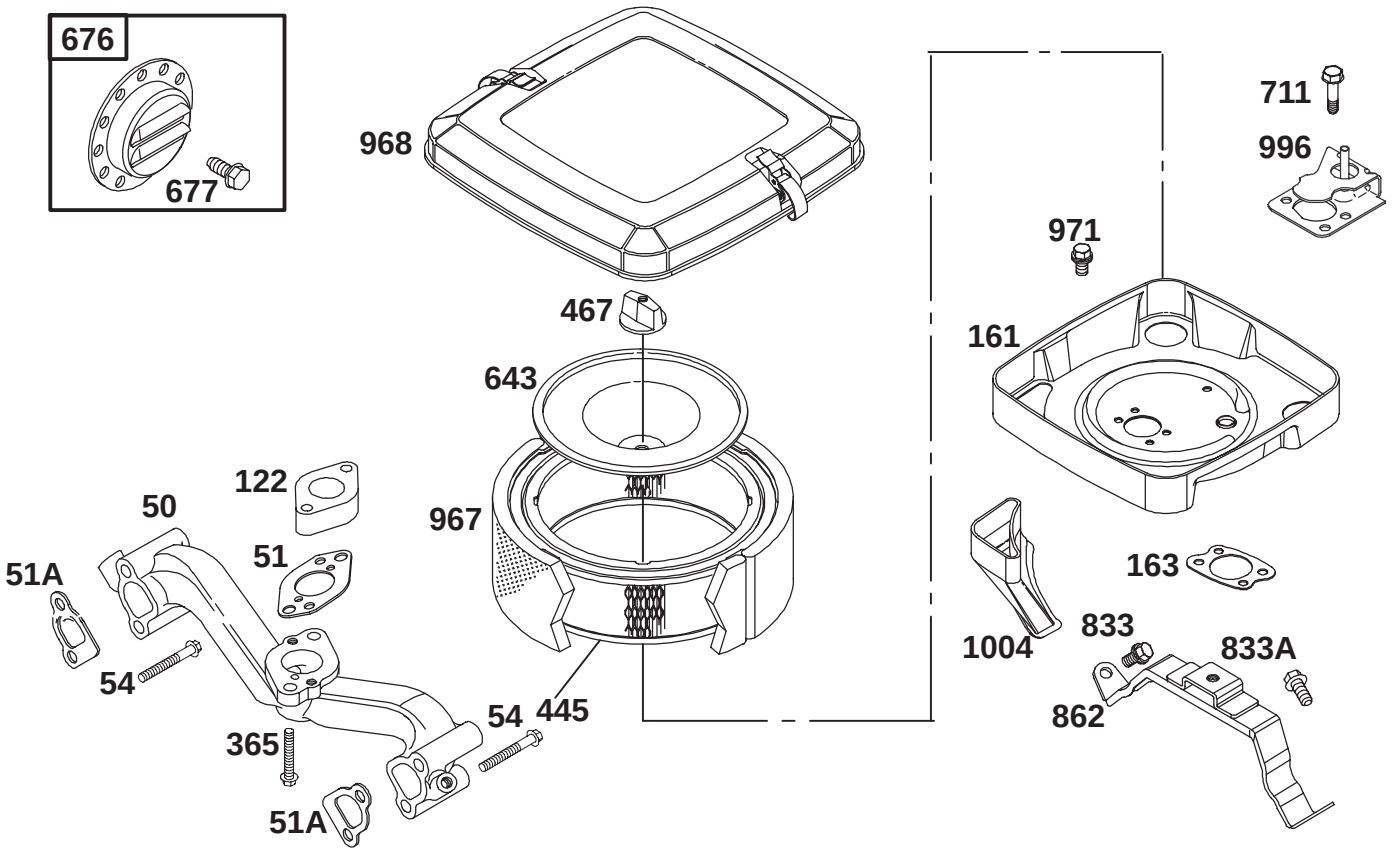
Assemblies include all parts shown in frames.

Carburetor Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
⋆51	805700	1	Intake Gasket
91	807919	1	Upper Carburetor Body
●94	808257	1	Idle Mixture Kit
95	690718	1	Screw (Throttle Valve)
97	807720	1	Throttle Shaft
98	808177	1	Idle Speed Kit
●102	805541	1	Carburetor Body Gasket
●104	690723	1	Float Hinge Pin
●105	805547	1	Float Needle Valve
108	690719	1	Choke Valve
109	807722	1	Choke Shaft
117	690861	1	Main Jet
	Note:		
	805537	1	Main Jet(High Altitude)
119	690720	1	Screw (Upper to Lower Carburetor Body)
125	808251	1	Carburetor
●127	690727	1	Welch Plug
130	690726	1	Throttle Valve
133	691510	1	Carburetor Float

Ref. No.	Part No.	Qty.	Description
●142	690725	1	Carburetor Nozzle
187	296004	1	Fuel Line (Cut to Length)
231	690718	1	Screw (Choke Valve)
●255	690721	1	Choke Shaft Bushing
385	692537	1	Screw (Fuel Pump)
387	491922	1	Fuel Pump
601	93053	1	Hose Clamp
628	805025	1	Screw (Fuel Pump Bracket)
●633	690722	1	Choke Shaft Seal
788	691559	1	Fuel Pump Bracket
●807	805557	1	Throttle Spacer
918	393815	1	Vacuum Line (Cut to Length)
947	807664	1	Fuel Solenoid
●1091	691516	1	Limiter Cap

⋆Included in Engine Gasket Set — Part No. 808390.
●Included in Carburetor Overhaul Kit — Part No. 808273.

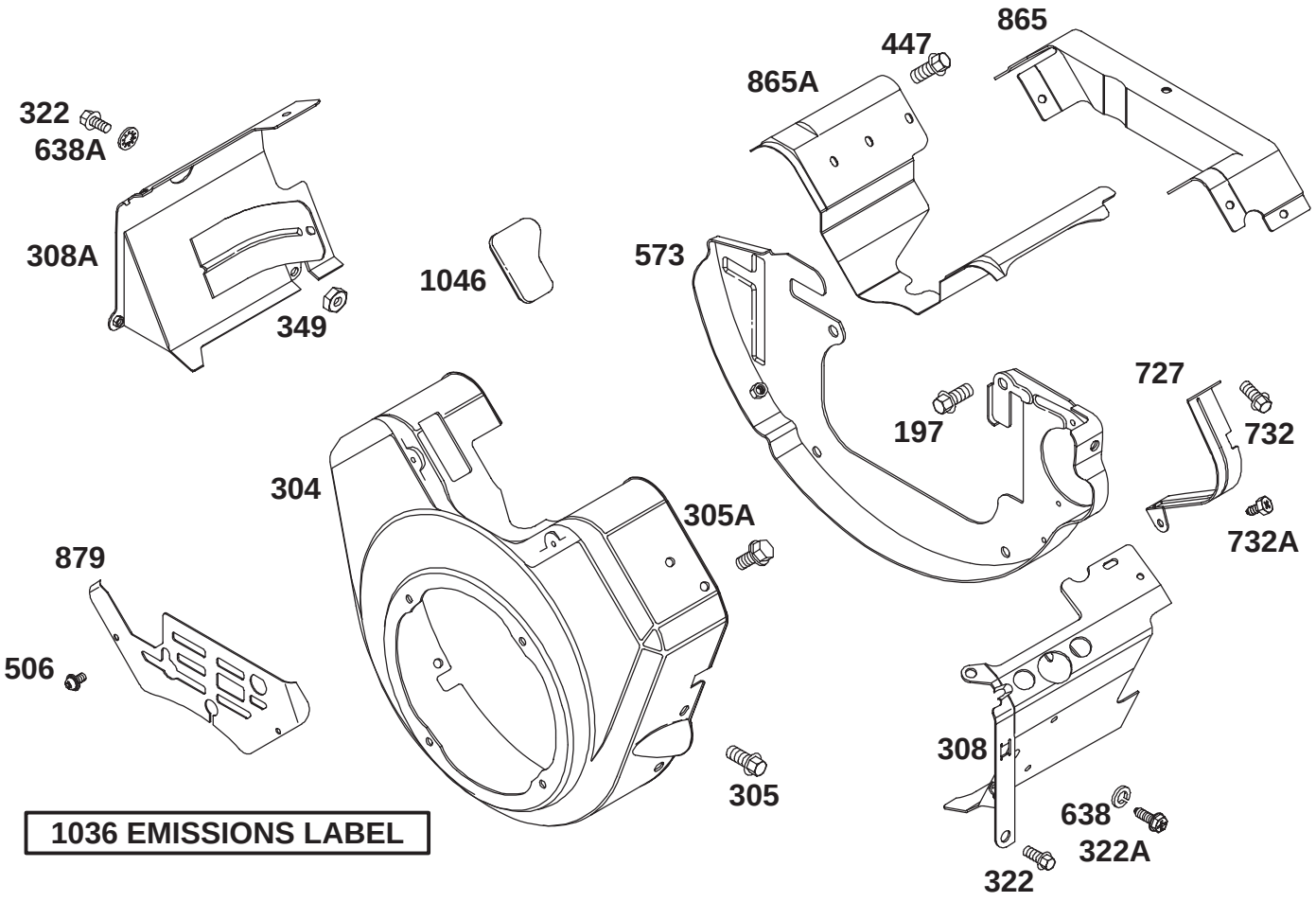


Air Cleaner Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
50	690754	1	Intake Manifold
⋆51	805700	1	Intake Gasket
⋆∆51A	805023	1	Intake Gasket
54	690676	1	Screw (Intake Manifold)
122	690691	1	Carburetor Spacer
161	691561	1	Air Cleaner Base
⋆163	805655	1	Air Cleaner Gasket
365	690711	1	Screw (Carburetor)
445	394018	1	Air Cleaner Cartridge Filter
467	491875	1	Air Cleaner Knob
643	805631	1	Air Filter Retainer
676	397630	1	Muffler Deflector
677	94896	1	Screw (Muffler Deflector)
711	691492	1	Screw (Carburetor Shield)
833	692539	1	Screw (Cleaner Mounting Strap)
833A	690872	1	Screw (Cleaner Mounting Strap)

Ref. No.	Part No.	Qty.	Description
862	692153	1	Strap/Stud Air Cleaner Mounting
967	272490	1	Pre Cleaner Filter
968	807862	1	Air Cleaner Cover
971	692539	1	Screw (Air Cleaner Base)
996	691577	1	Carburetor Shield
1004	690743	1	Air Duct

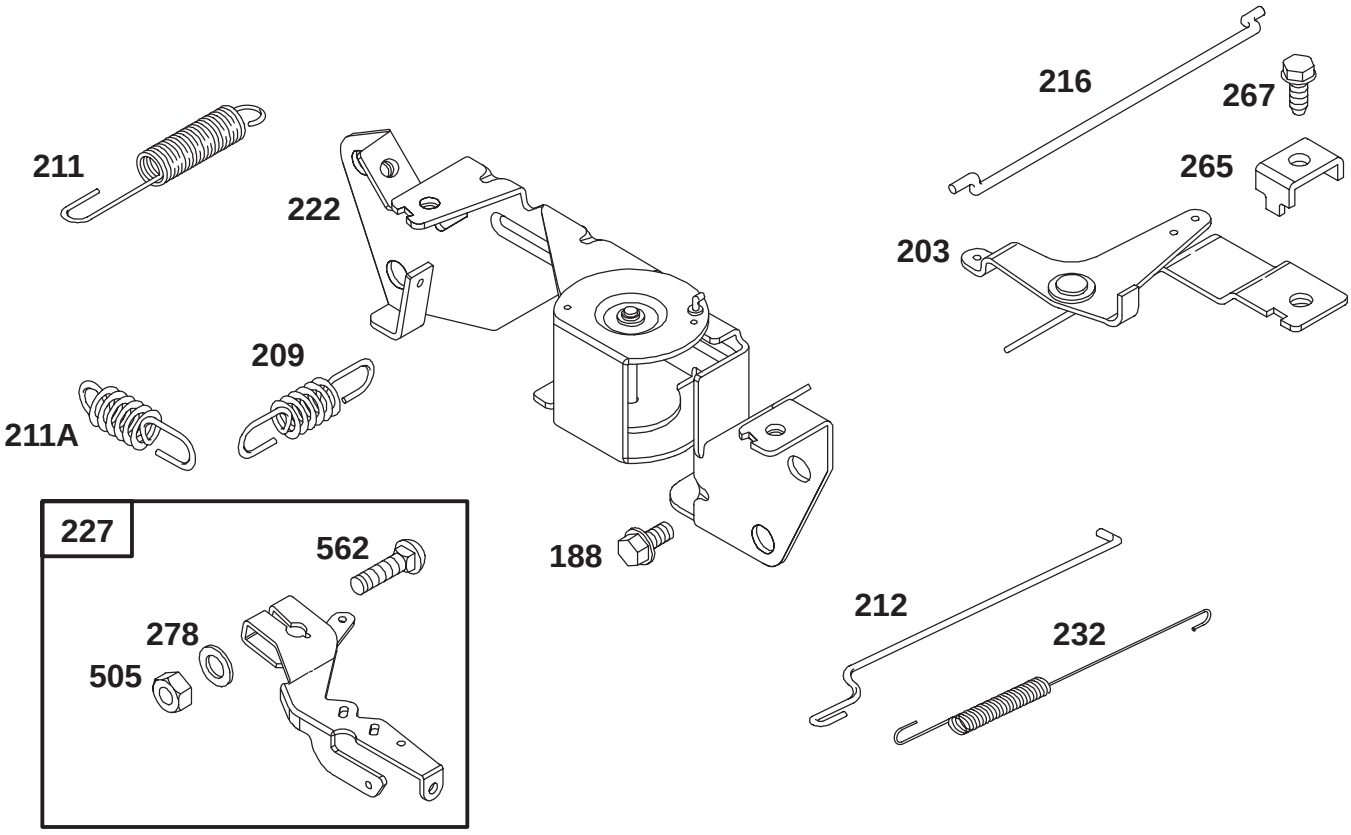
⋆Included in Engine Gasket Set — Part No. 808390.
∆Included in Valve Gasket Set — Part No. 808392.



Blower Housing Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
197	692539	1	Screw (Back Plate)
304	808408	1	Blower Housing
305	692539	1	Screw (Blower Housing)
305A	805025	1	Screw (Blower Housing)
308	691576	1	Cylinder Head Cover (Cylinder #1)
308A	691563	1	Cylinder Head Cover (Cylinder #2)
322	692539	1	Screw (Cylinder Head Cover)
322A	805448	1	Screw (Cylinder Head Cover)
349	690238	1	Nut (Cylinder Head Cover)
447	692539	1	Screw (Air Guide Cover)
506	690617	1	Screw (Carburetor Cover)
573	807663	1	Back Plate
638	690706	1	Washer (Cylinder Head Cover)

Ref. No.	Part No.	Qty.	Description
638A	691551	1	Washer (Cylinder Head Cover)
727	690714	1	Starter Drive Cover
732	692539	1	Screw (Starter Drive Cover)
732A	690688	1	Screw (Starter Drive Cover)
865	690901	1	Air Guide Cover
865A	690750	1	Air Guide Cover
879	690757	1	Carburetor Cover
1036	806687	1	Emissions Label
1046	805753	1	Blower Housing Plug

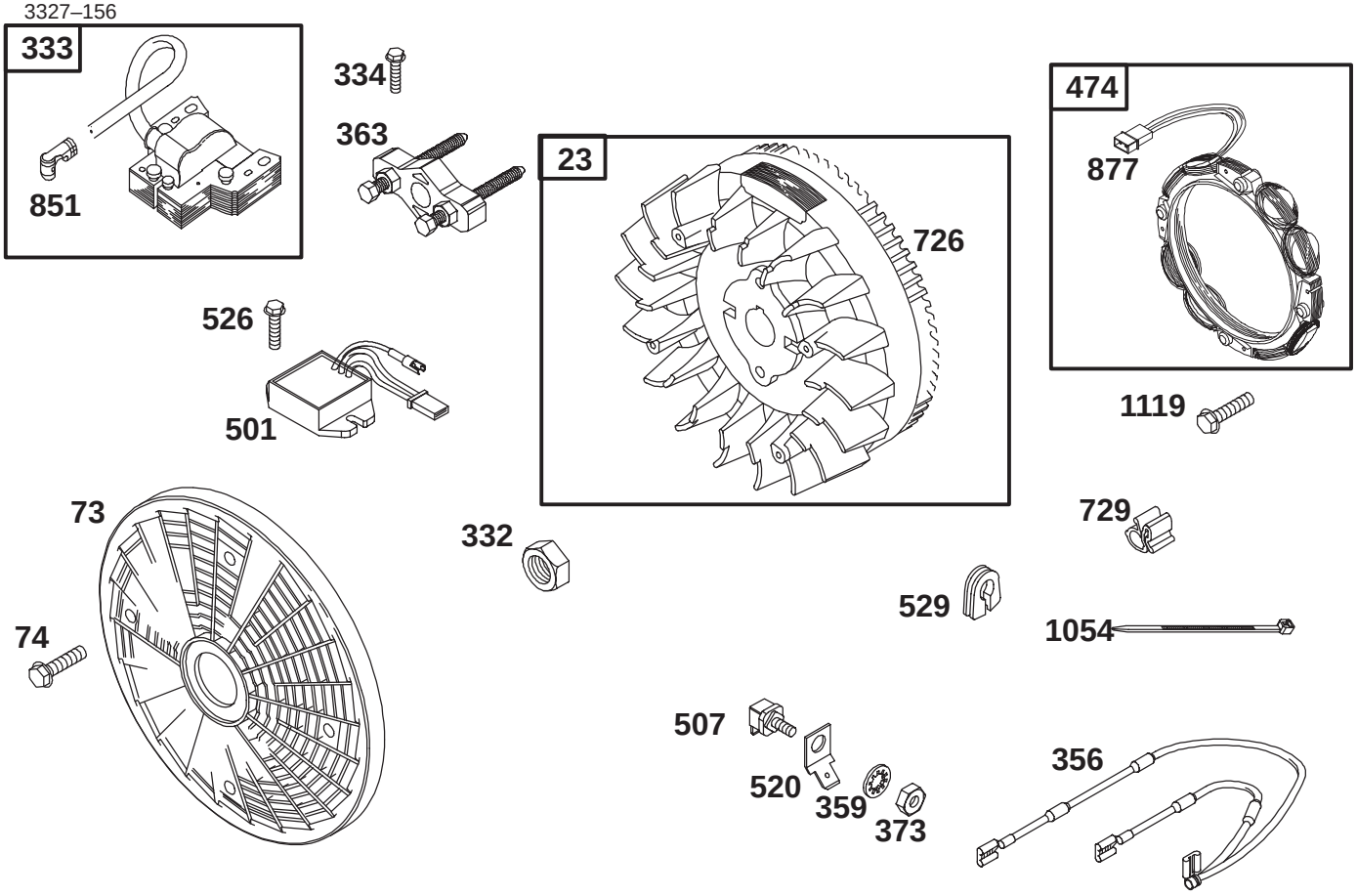


Assemblies include all parts shown in frames.

Governor Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
188	805025	1	Screw (Control Bracket)
203	690923	1	Bell Crank
209	691508	1	Governor Spring
211	805450	1	Governed Idle Spring
211A	805453	1	Governed Idle Spring
212	690712	1	Throttle Link
216	690705	1	Choke Link
222	808454	1	Control Bracket
227	690236	1	Governor Control Lever
232	805465	1	Governor Link Spring
265	221535	1	Casing Clamp
267	805762	1	Screw (Casing Clamp)
278	690237	1	Washer (Governor Control Lever)
505	690238	1	Nut (Governor Control Lever)
562	690239	1	Bolt (Governor Control Lever)

Ref. No.	Part No.	Qty.	Description

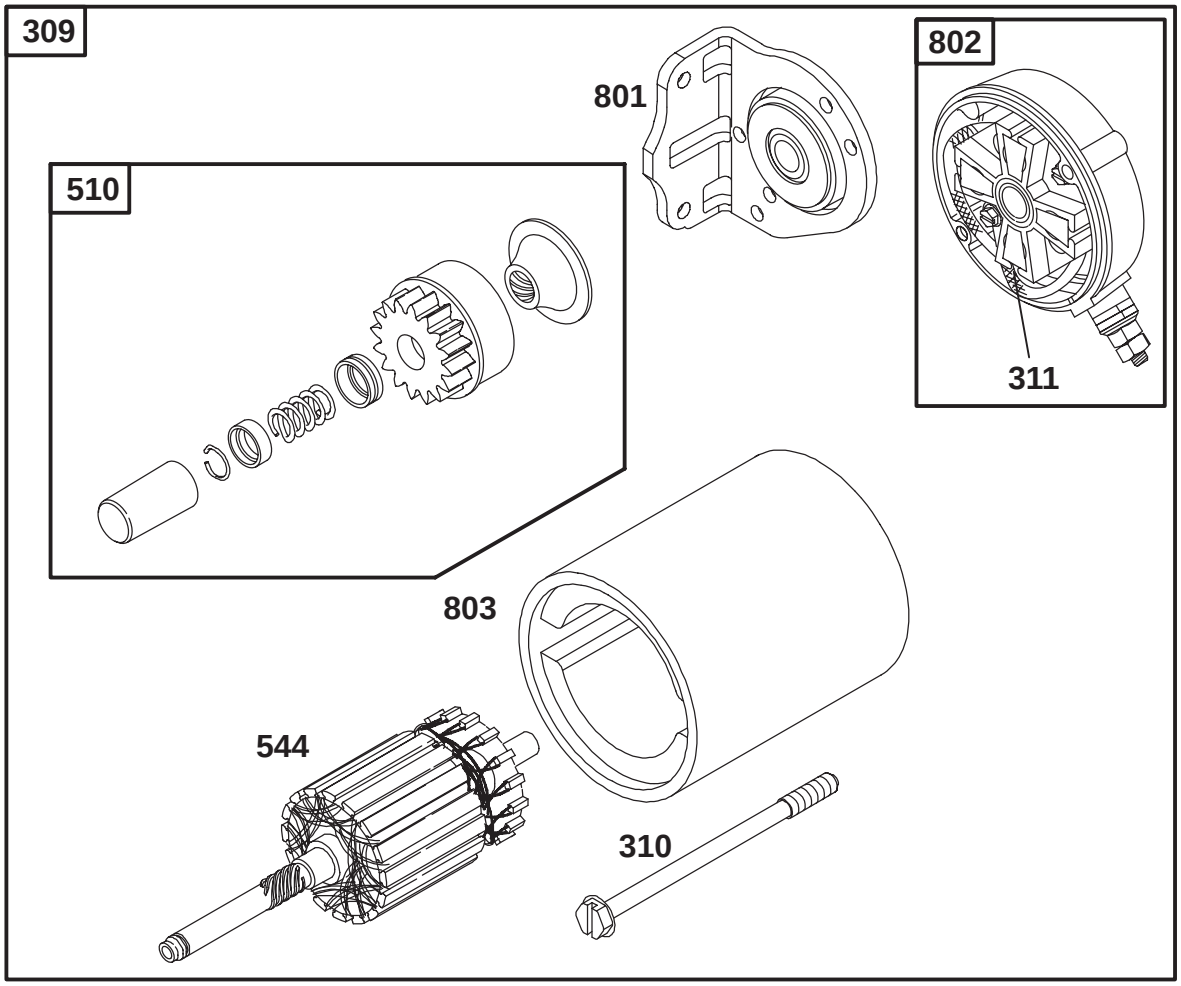


Assemblies include all parts shown in frames.

Flywheel Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
23	690919	1	Flywheel
73	494439	1	Rotating Screen
74	805447	1	Screw (Rotating Screen)
332	690887	1	Nut (Flywheel)
333	49234	1	Magneto Armature
334	805407	1	Screw (Magneto Armature)
356	493792	1	Stop Wire
359	691077	1	Washer (Ground Terminal)
363	19203	1	Flywheel Puller
373	90576	1	Nut (Ground Terminal)
474	393295	1	Alternator
501	394890	1	Regulator
507	398525	1	Insulator
520	691084	1	Ground Terminal
526	805448	1	Screw (Regulator)
529	690744	1	Grommet
726	808162	1	Ring Gear (Includes Mounting Hardware).

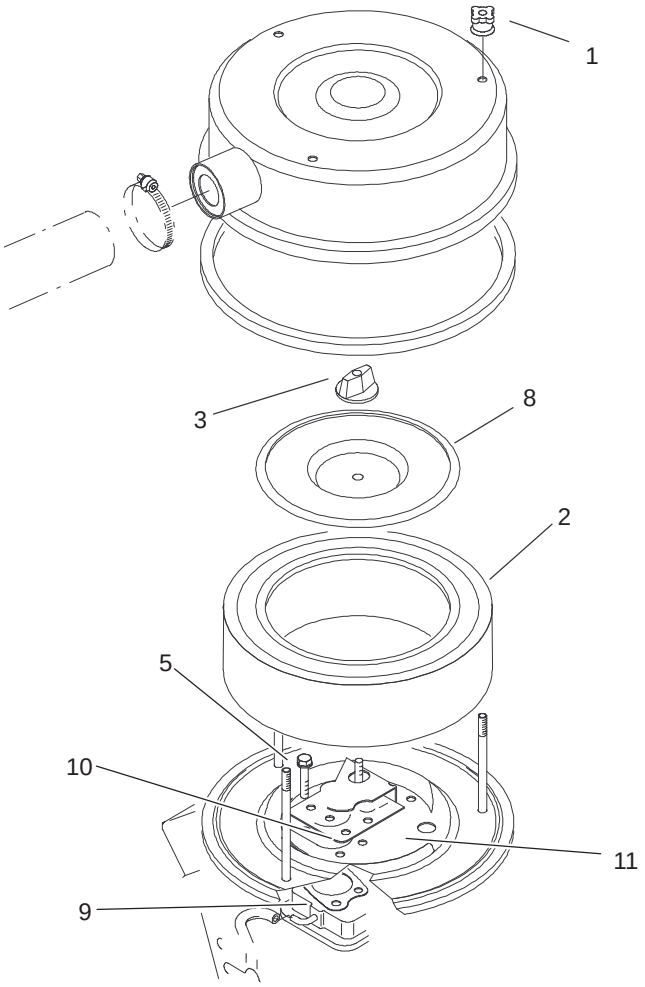
Ref. No.	Part No.	Qty.	Description
729	690586	1	Wire Clip
851	493880	1	Spark Plug Terminal
877	393537	1	Alternator Connector/Wire
1054	280275	1	Cable Tie
1119	805407	12	Screw (Alternator)



Starter Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
309	691564	1	Starter Motor
310	496880	1	Bolt (Starter Motor)
311	496887	1	Brush Set
510	496881	1	Starter Drive
544	690855	1	Starter Armature
697	805247	1	Screw (Drive Cap)
801	496814	1	Drive Cap
802	496813	1	End Cap
803	690854	1	Starter Housing

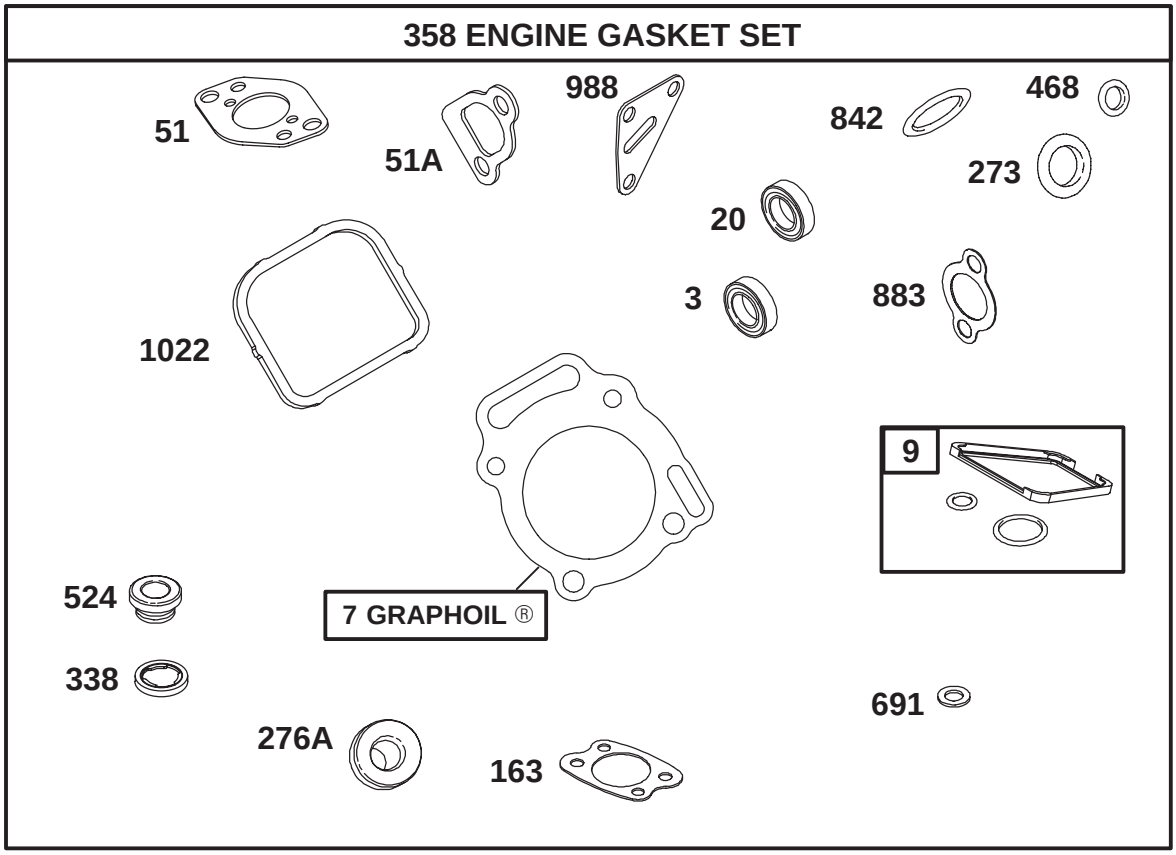
Ref. No.	Part No.	Qty.	Description



Engine Parts Kit
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
1	281051	3	Nut–Seal
2	394018	1	Cartridge–Cleaner, Air
3	491875	1	Knob
5	805317	5	Screw
8	805631	1	Plate–Cover
9	805655	1	Gasket–Carburetor
10	808311	1	Carburetor Shield ASM
11	805783	1	Hose–Breather

Ref. No.	Part No.	Qty.	Description



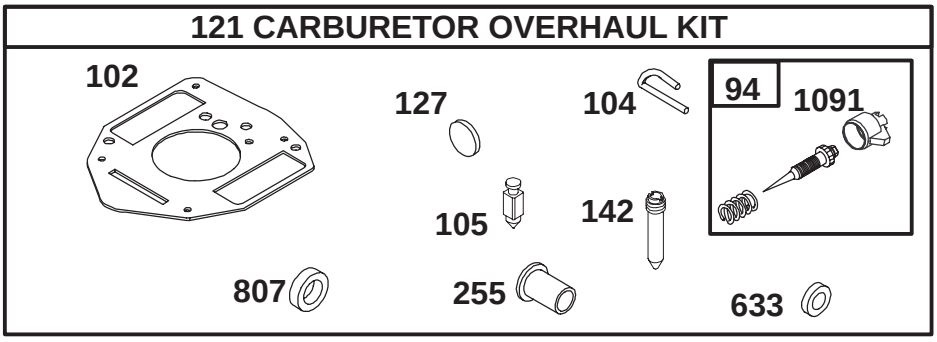
Assemblies include all parts shown in frames.

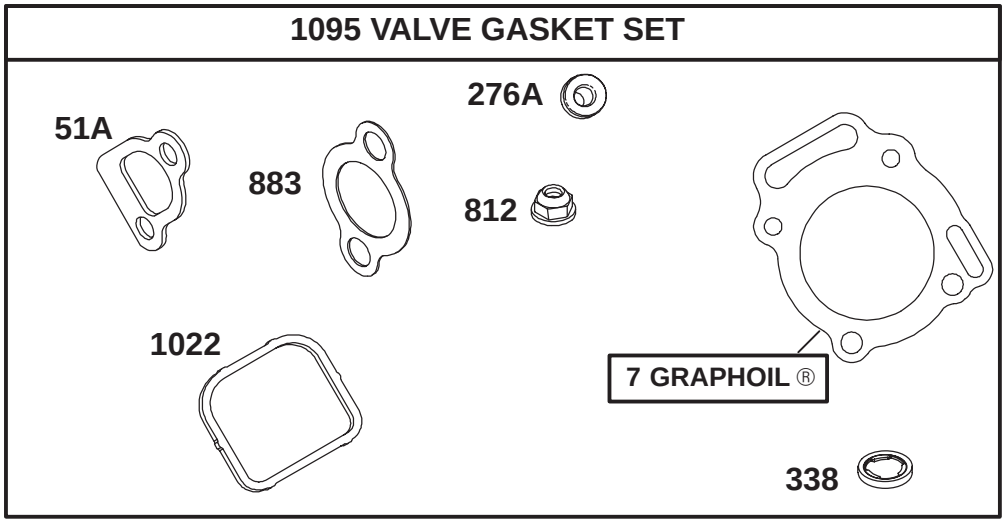
Gasket Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
⋆3	805101	1	Oil Seal
⋆∆7	806085	1	Cylinder Head Gasket
⋆9	807688	1	Breather Gasket
⋆20	805049	1	Oil Seal
⋆51	805700	1	Intake Gasket
⋆∆51A	805023	1	Intake Gasket
⋆163	805655	1	Air Cleaner Gasket
⋆273	690681	1	O−Ring Seal (Oil Pump)
⋆∆276A	805420	1	Sealing Washer
⋆∆338	271983	1	Dipstick Gasket
358	808390	1	Engine Gasket Set
⋆468	690690	1	O−Ring Seal (Oil Pump Screen)
⋆524	281370	1	Dipstick Tube Seal
⋆691	690680	1	Governor Shaft Seal
⋆842	805386	1	Dipstick/Tube Seal
⋆∆883	805024	1	Exhaust Gasket
⋆988	805250	1	Oil Adapter Gasket
⋆∆1022	806039	1	Rocker Cover Gasket

Ref. No.	Part No.	Qty.	Description

⋆Included in Engine Gasket Set − Part No. 808390.
∆Included in Valve Gasket Set − Part No 808392.





Assemblies include all parts shown in frames.

Carburetor Overhaul Kit Assembly
Engine Briggs and Stratton 303447–1180–E1

Ref. No.	Part No.	Qty.	Description
⋆Δ7	806085	1	Cylinder Head Gasket
⋆Δ51A	805023	1	Intake Gasket
●94	808257	1	Idle Mixture Kit
●102	805541	1	Carburetor Body Gasket
●104	690723	1	Float Hinge Pin
●105	805547	1	Float Needle Valve
121	808273	1	Carburetor Overhaul Kit
●127	690727	1	Welch Plug
●142	690725	1	Carburetor Nozzle
●255	690721	1	Choke Shaft Bushing
⋆Δ276A	805420	1	Sealing Washer
⋆Δ338	691312	1	Dipstick Gasket
●633	690744	1	Choke Shaft Seal
●807	805557	1	Throttle Spacer
Δ812	805019	1	Nut (Rocker Arm Cover)
⋆Δ883	805024	1	Exhaust Gasket
⋆Δ1022	806039	1	Rocker Cover Gasket
●1091	691516	1	Limiter Cap
1095	808392	1	Valve Gasket Set

Ref. No.	Part No.	Qty.	Description

⋆Included in Engine Gasket Set — Part No. 808390.
●Included in Carburetor Overhaul Kit — Part No. 808273. ΔIncluded in Valve Gasket Set — Part No. 808392.

Maintenance Record

Date								

Maintenance Record

Date								

Maintenance Record

Date								


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