FORM NO. 3321–101

TORO®

Lawn & Garden Tractor

Model No. 72046 — 8900001 & Up
Model No. 72064 — 8900001 & Up

Parts Catalog

93–7601 Rev.

ORDERING REPLACEMENT PARTS

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

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Accessories

Description	Model / Parts No.
38″ Side Discharge Mower	78216
38″ Recycler Mower	78226
42″ Side Discharge Mower	78231
48″ Side Discharge Mower	78260
52” Side Discharge Mower	78280
52” Recycler Mower	78285
38″ Twin Bagger	79202
48″ Vacuum Bagger	79203

Description	Model / Parts No.
48″ Snow Blade	79252
42″ Snow Thrower	79263
36″ Tiller	79271
Hour Meter Kit	92–6898
Indicator Light	92–6897
Inner Tube, Front	100079
Inner Tube, Rear	7007

Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

Abbreviation	Meaning
AR	as required
ASM	assembly

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CARR . . . . . carriage
DEG . . . . . degrees
FH . . . . . flat head
GA . . . . . gauge
HF . . . . . hex flange
HFW . . . . . hex flange washer
HH . . . . . hex head
HHF . . . . . hex head flange
HHST . . . . . hex head self tapping
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
INC . . . . . incorporated
LH . . . . . left hand
PH . . . . . pan head
PPH . . . . . Phillips pan head
PTO . . . . . power take off
RH . . . . . right hand
SFH . . . . . slotted fillister head
SH . . . . . square head
SHWH . . . . . slotted hex washer head
SPH . . . . . slotted pan head
STD . . . . . standard
TAP . . . . . self tapping
TH . . . . . truss head
TTH . . . . . Torx truss head
WH . . . . . wing head

Important Format Explanations

This catalog uses special formats to convey information in illustrations and parts lists. Specifically, one format is used in conjunction with service assemblies and another with quantities associated with reference numbers.

Service Assemblies

Parts within service assemblies have reference numbers in the form *X:Y. X* is the reference number of the service assembly and *Y* is a sequential number unique to each part within the service assembly.

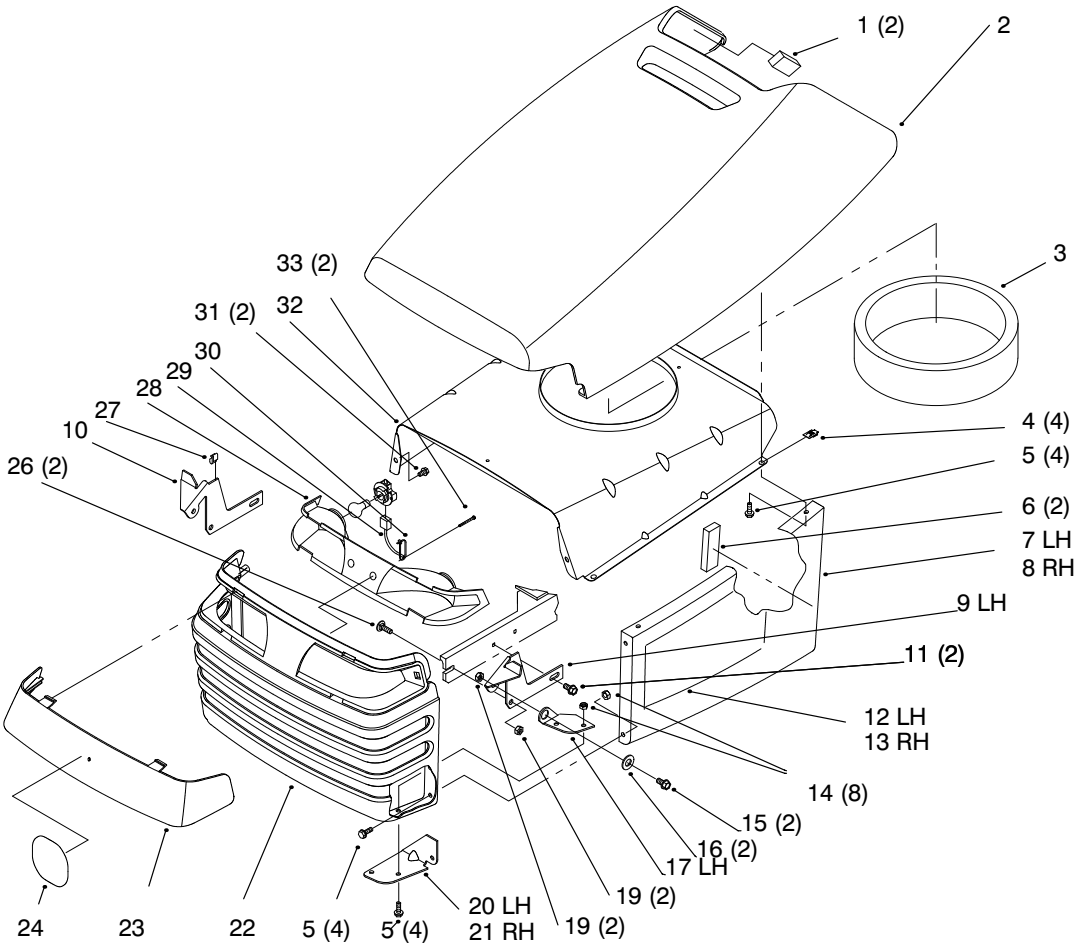
For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part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

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

Reference Numbers with Quantities

Illustrations may have a quantity in parentheses next to a reference number, in the form *X (Y). X* is the reference number. *Y* in parentheses is the quantity of the part identified by the reference number.

For example, the illustration callout 4 (2) indicates that two parts are used in that instance.

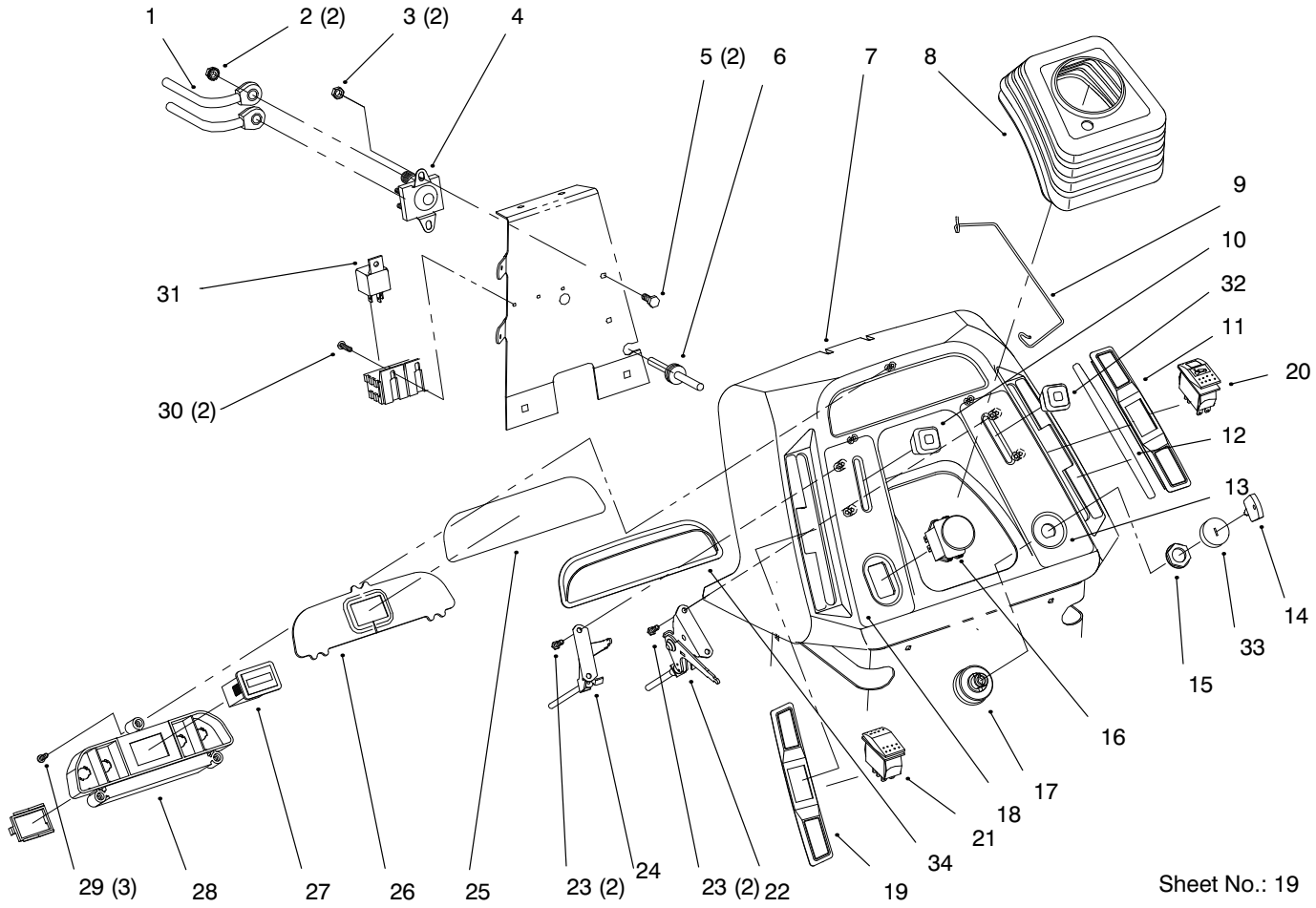


Sheet No.: 2

Hood and Grill

Ref. No.	Part No.	Qty.	Description
1	94–1980	2	Foam–Hood
2	93–0490	1	Hood
3	92–7077	1	Inlet–Seal Air
4	92–7006	4	Nut
5	32105–15	12	Screw–HH
6	92–7148	2	Foam–Sidepanel
7	93–0491	1	Sidepanel–LH Hood
8	93–0492	1	Sidepanel–RH Hood
9	92–6918–03	1	Bracket–Hinge LH
10	92–6917–03	1	Bracket–Hinge RH
11	32144–14	2	Screw–HWH
12	95–0801	1	Decal–Hood LH
13	95–0800	1	Decal–Hood RH
14	32128–10	8	Nut–Lock HHF
15	322–3	2	Screw–HH
16	105503	2	Bushing
17	92–6997–03	1	Hinge–Hood LH
18	92–6996–03	1	Hinge–Hood RH
19	3296–29	4	Nut–Lock
20	92–7049–03	1	Bracket–Hood Hinge LH
21	92–7048–03	1	Bracket–Hood Hinge RH
22	93–0494	1	Grille & Screen ASM
23	92–6656	1	Lens–Headlight
24	92–6987	1	Decal–Horsehead

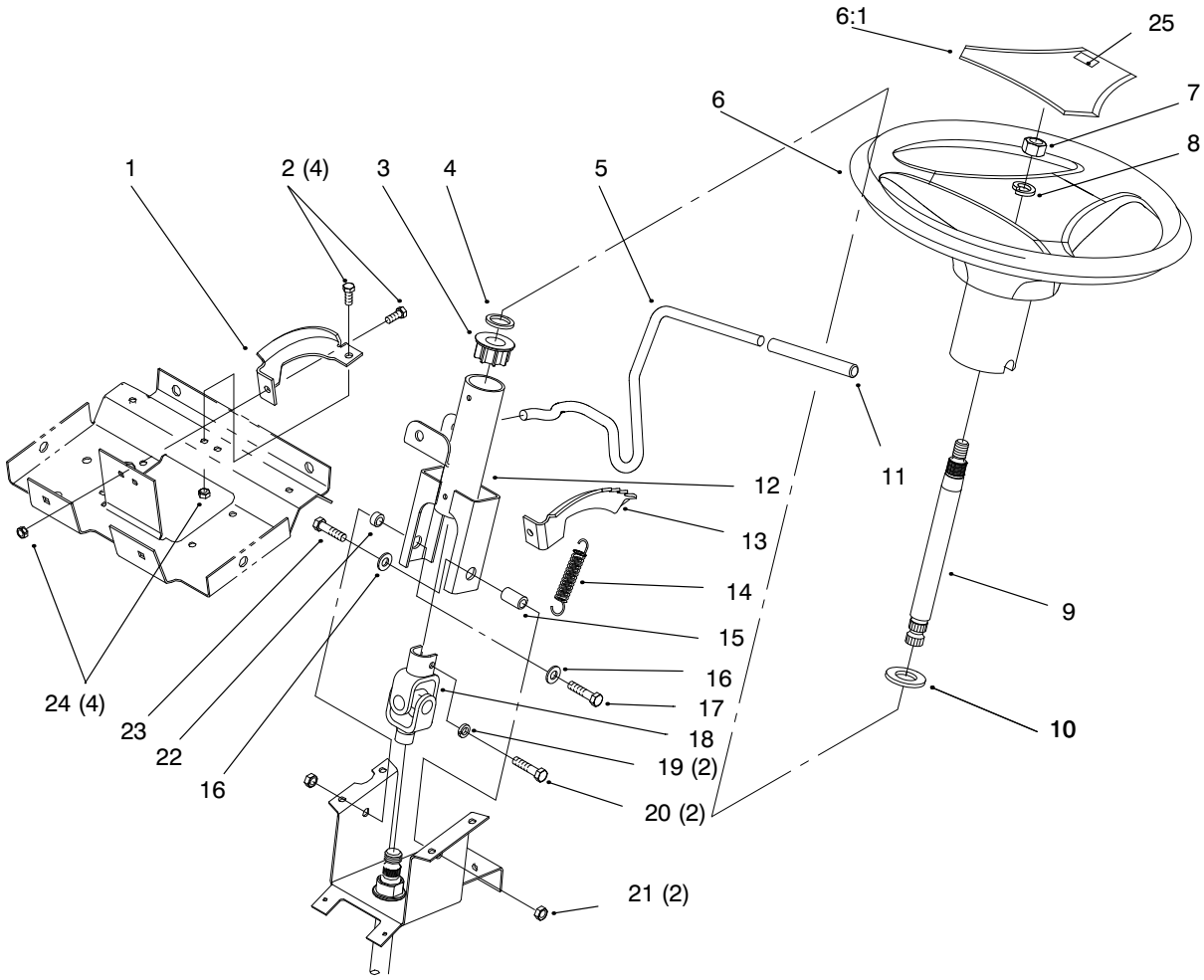
Ref. No.	Part No.	Qty.	Description
26	3230–1	2	Bolt–CARR
27	702366	1	Clip–Wire Retainer
28	88–3970	1	Reflector–Lamp
29	88–4320	1	Harness–Wire
31	46–8093	2	Screw–TAP
32	92–6914–03	1	Baffle–Hood Upper
33	32144–32	2	Screw–Plastic



Dash

Ref. No.	Part No.	Qty.	Description
1	92–6989	1	Cable–Battery Red
2	32149–2	2	Nut–Hex Lock
3	3296–42	2	Nut–Lock
4	92–9845	1	Solenoid
5	321–4	2	Screw–HH
6	237–141	1	Grommet
7	94–1895	1	Dash–Gear
8	92–6680	1	Boot–Steering
9	94–2966	1	Clip–Boot
10	66–0120	2	Knob
12	92–6722	1	Decal–Shift
13	92–6721	1	Decal–Throttle/Ignition
14	62–7770	1	Key–Ignition
15	700919	1	Nut
16	93–9998	1	Switch–PTO
17	92–6785	1	Switch–Ignition
18	92–6720	1	Decal–Choke/PTO
19	92–6797	1	Cover–Slot LH
22	92–6782	1	Control–Throttle
23	32144–32	4	Screw–Plastic
24	92–6781	1	Control–Choke
25	92–6975	1	Decal–Dash Lens
26	92–6705	1	Lens–Dash
27	94–4208	1	Hourmeter
28	92–6732	1	Housing–Indicator Light

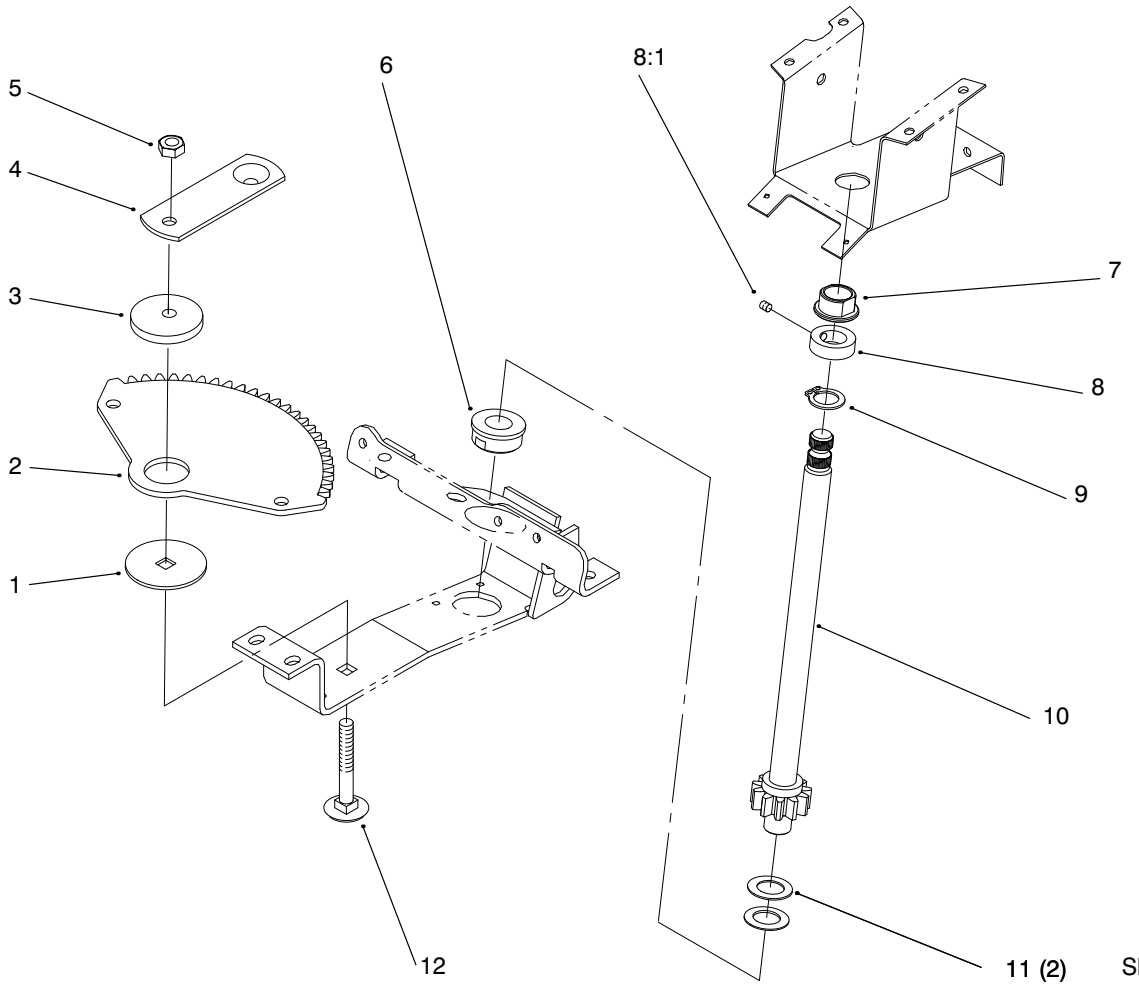
Ref. No.	Part No.	Qty.	Description
29	94–6961	3	Screw
30	32144–8	2	Screw–PPH
31	116397	2	Relay



Steering Wheel and Tilt

Ref. No.	Part No.	Qty.	Description
1	92–6777–03	1	Bracket–Support
2	321–4	4	Screw–HH
3	93–1146	1	Bushing–Steering
4	7896	1	Washer–Bowed
5	92–6971	1	Lever–Tilt
6	98–1471	1	Steering Wheel–14”
6:1	98–1468	1	Cover–Steering Wheel
7	3217–9	1	Nut–HH
8	3253–7	1	Washer–Lock
9	94–2874	1	Shaft–Steer Upper
10	3256–28	1	Washer–Flat
11	92–6798	1	Cap–Rod
12	93–1148–03	1	Column
13	92–6776	1	Bracket–Detent
14	93–1357	1	Spring–Extension
15	92–6999	1	Spacer–Yoke
16	3256–23	2	Washer–Flat
17	322–3	1	Screw–HH
18	92–6717	1	U–Joint–Steering
19	3253–4	2	Washer–Lock
20	33114–030	2	Screw–HH
21	3296–29	2	Nut–Lock
22	92–6998	1	Spacer–Yoke
23	322–17	1	Screw–HH
24	3296–8	4	Nut–Lock
25	98–1459	1	Decal–Toro

Ref. No.	Part No.	Qty.	Description

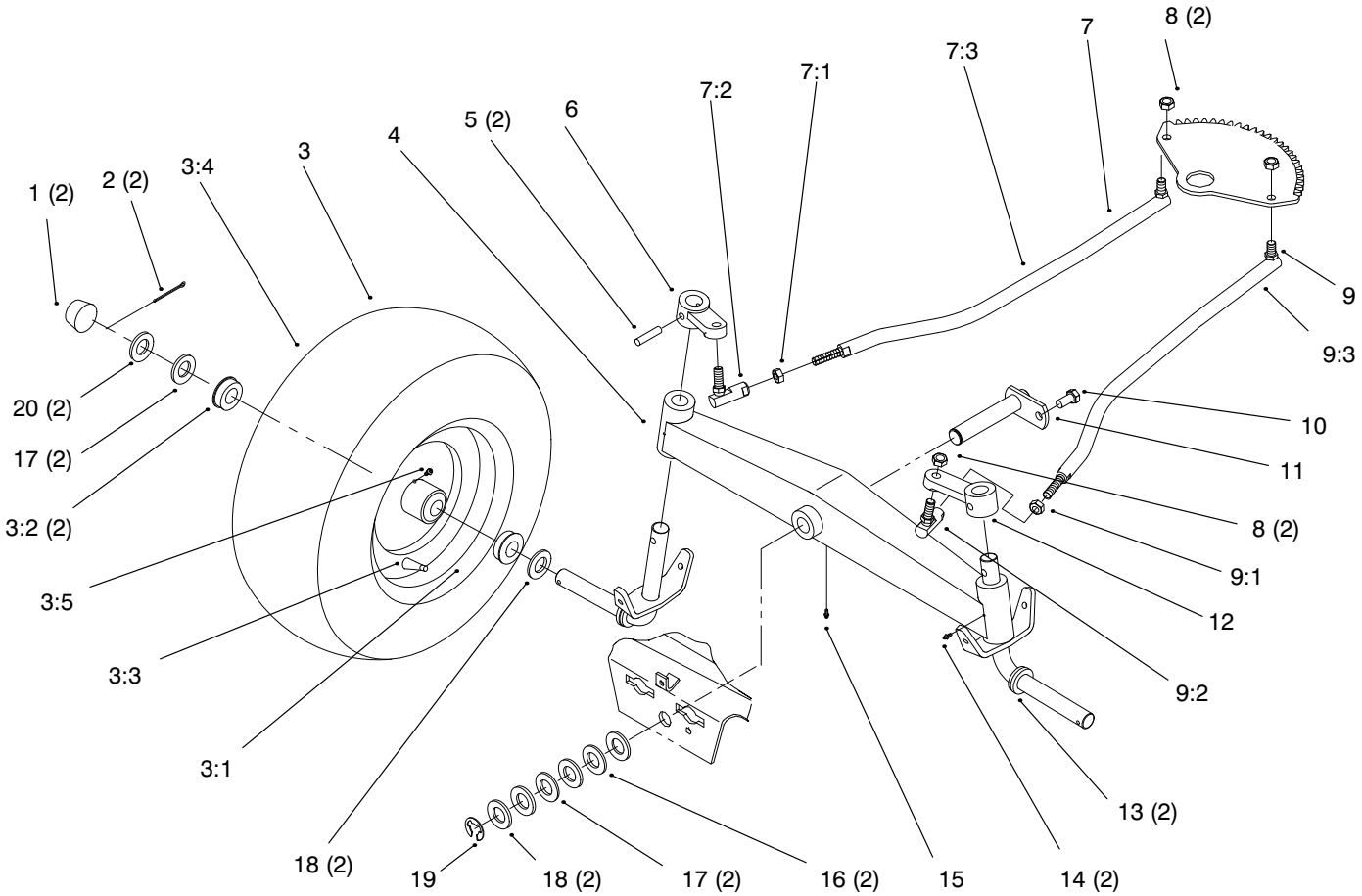


Sheet No.: 8

Lower Steering

Ref. No.	Part No.	Qty.	Description
1	111419	1	Washer–Bearing
2	78–2610	1	Gear–Sector
3	111418	1	Bushing
4	78–9150–03	1	Plate
5	108881	1	Nut–Hex
6	110391	1	Bearing–Wheel
7	109189	1	Bearing–Flange
8	111383	1	Collar w/Set Screw
8:1	3245–32	1	Screw–Set
9	111646	1	Grip Ring
10	92–6702	1	Shaft–Steering Lower
11	1278	2	Washer–Shim
12	3231–4	1	Bolt–CARR

Ref. No.	Part No.	Qty.	Description



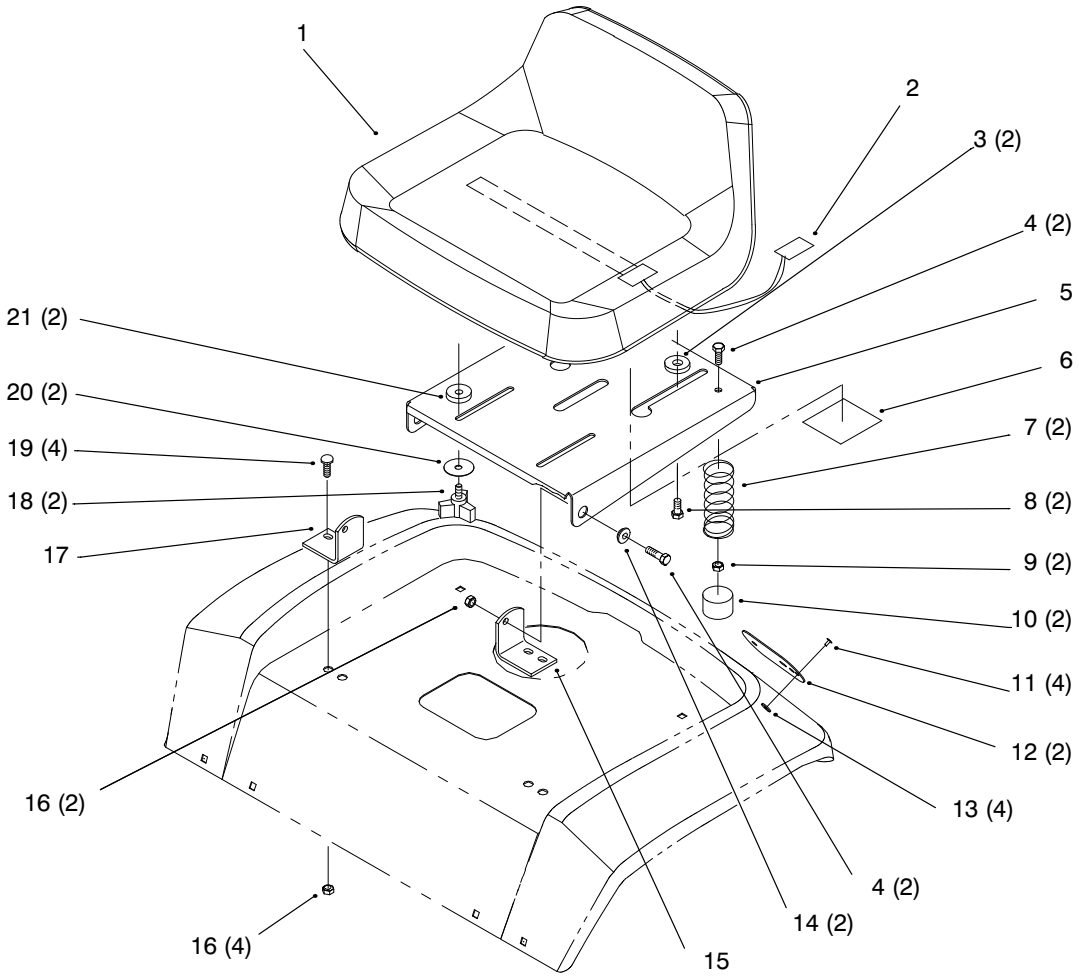
Sheet No.: 4

Front Axle

Ref. No.	Part No.	Qty.	Description
1	61–9780	2	Hubcap
2	3272–17	2	Pin–Cotter
☆3	93–9800	2	ASM–Wheel & Tire
3:1	93–9801	2	ASM–Wheel w/Zerk
3:2	110513	4	Bearing–Wheel
3:3	5108	2	Valve–Tire Tubeless
3:4	117127	2	Tire
3:5	109500	2	Fitting–Grease
4	78–7960–01	1	Axle–Front
5	933270	2	Pin–Roll
6	78–1950–01	1	Arm–Front Spindle LH
7	92–6883	1	Steering Link RH
☆7:1		1	Nut–Hex Jam
7:2	78–2920	1	Joint–Ball
7:3	78–5801	1	Joint–Ball RH w/ Jam Nut
8	9150026	4	Nut–Lock
9	92–6884	1	Steering Link LH
☆9:1		1	Nut–Hex Jam
9:2	78–2920	1	Joint–Ball
9:3	78–5811	1	Joint–Ball LH
10	9267154	1	Screw
11	92–7057–03	1	Pin–Front
12	78–1940–01	1	Arm–Front Spindle RH
13	78–2601–01	2	Spindle
14	302–5	2	Fitting–Grease

Ref. No.	Part No.	Qty.	Description
15	302–11	1	Fitting–Grease
16	9202324	2	Washer–10 GA
17	1278	4	Washer–Shim
18	5210	4	Washer–Shim
19	5618	1	Ring–Retaining
20	28–2480	2	Washer–Flat

☆ Not serviced

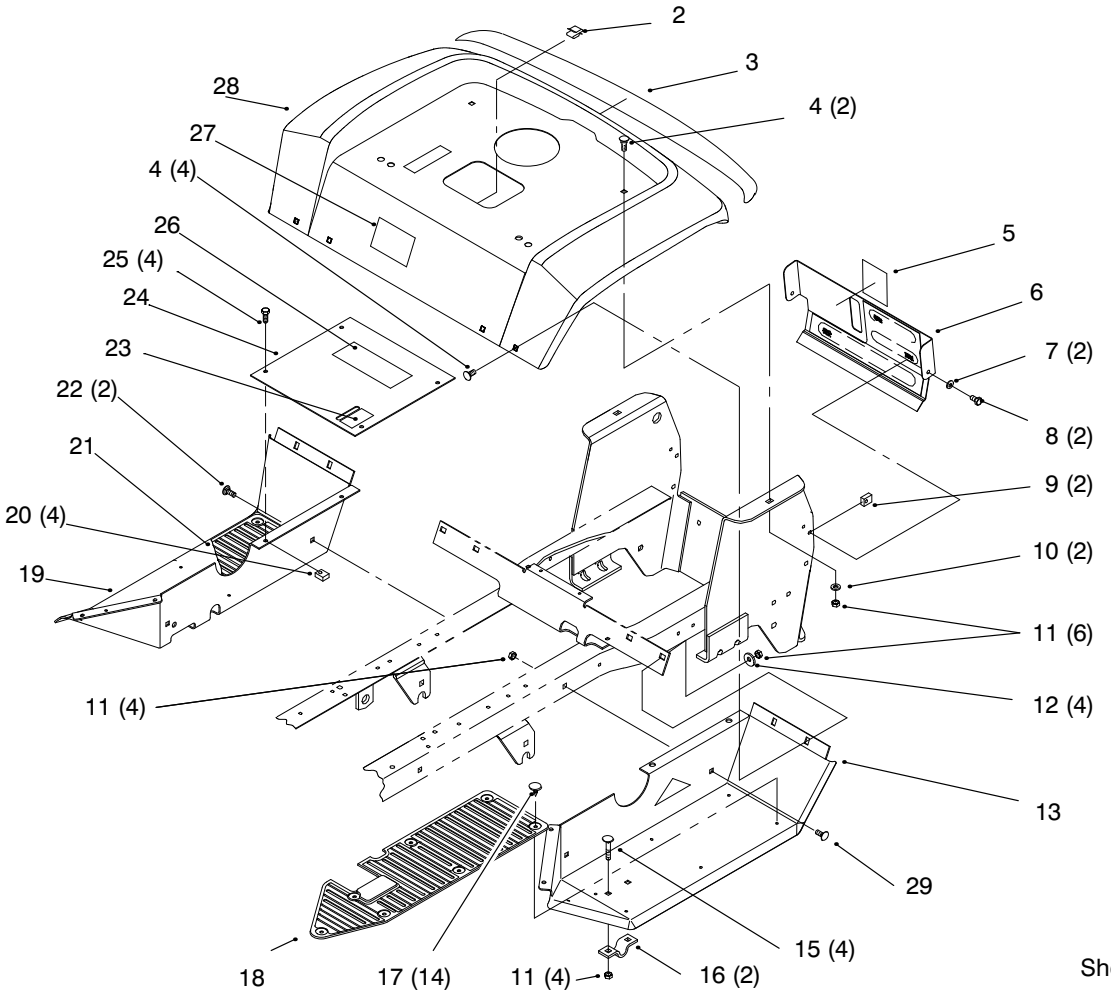


Sheet No.: 18

Seat

Ref. No.	Part No.	Qty.	Description
1	88–3950	1	Seat
2	38–1420	1	Switch–Seat
3	92–6750	2	Spacer–Nylon
4	322–5	4	Screw–HH
5	92–6972–03	1	Support–Seat
7	92–7054	2	Spring–Compression
8	92–6986	2	Bolt–Shoulder
9	3296–58	2	Nut–Flange
10	701178	2	Cap–Protector
11	3290–282	4	Pop Rivet
12	106557	2	Reflector
13	3256–49	4	Washer–Flat
14	105503	2	Bushing
15	79–0970–03	1	Bracket–Pivot LH
16	3296–29	6	Nut–Lock
17	79–0950–03	1	Bracket–Pivot RH
18	700806	2	Knob
19	3230–2	4	Screw–CARR
20	94–2869	2	Washer–Flat
21	109989	2	Spacer

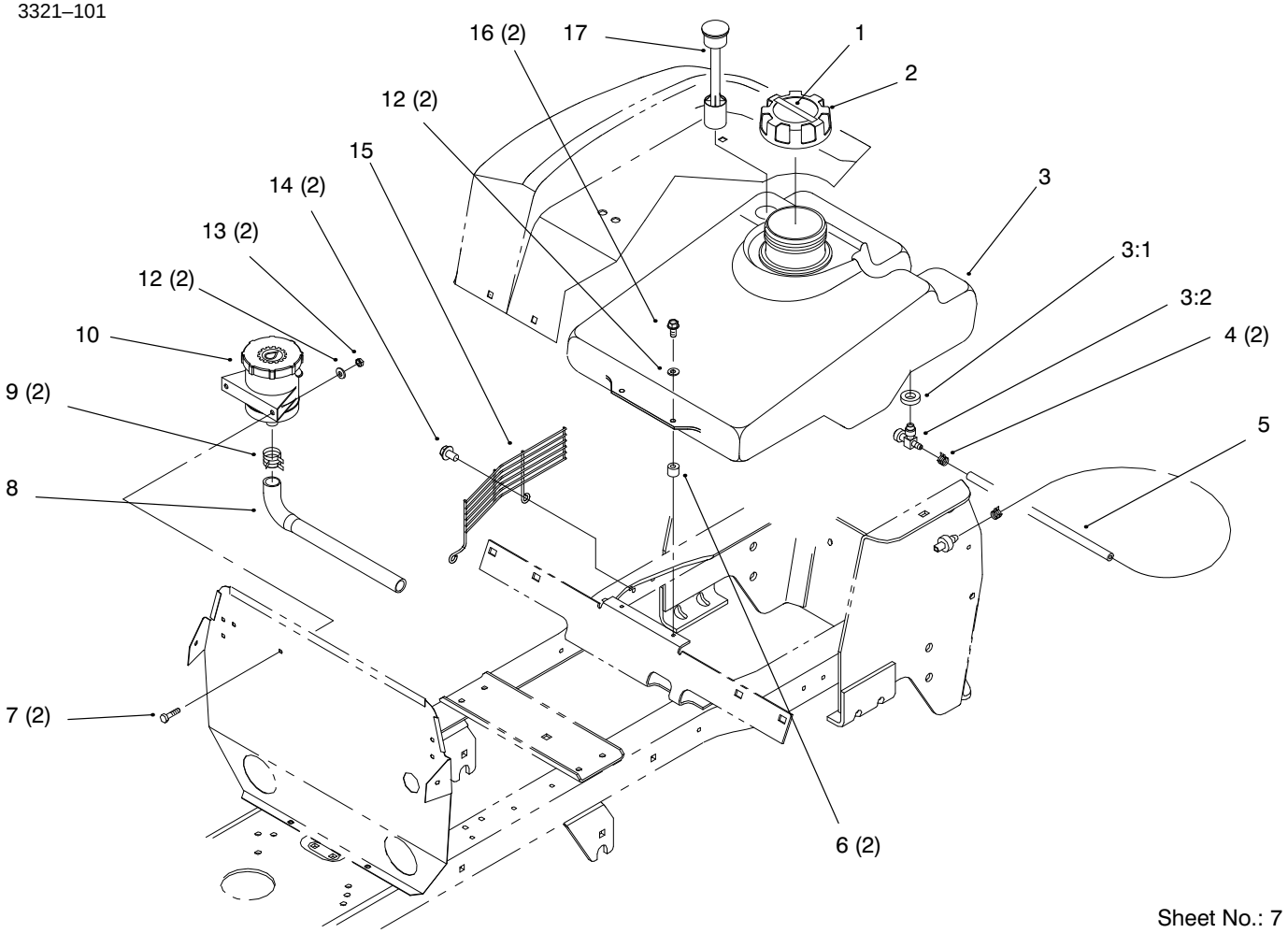
Ref. No.	Part No.	Qty.	Description



Sheet No.: 17

Fender and Footrest

Ref. No.	Part No.	Qty.	Description
2	702366	1	Clip–Wire Retainer
3	95–0802	1	Decal–Rear Fender
4	3230–31	6	Screw–CARR
5	92–6727	1	Decal–Fuel Level
6	94–1717–03	1	Panel–Rear
7	3256–22	2	Washer–Flat
8	321–4	2	Screw–HH
9	609900	2	Nut–Speed
10	3256–23	2	Washer–Flat
11	3296–29	14	Nut–Lock
12	94–2869	4	Washer–Flat
13	92–6745–01	1	Footrest–LH
15	3230–1	4	Bolt–CARR
16	106288	2	Clamp
17	3290–479	14	Fastener–Panel
18	92–6690	1	Mat–Foot LH
19	92–6744–01	1	Footrest–RH
20	107069	4	Nut–Retainer
21	92–6689	1	Mat–Foot RH
22	3230–23	3	Bolt–CARR
23	92–6725	1	Decal–HOC (Only On: 72046
23	92–7092	1	Decal–HOC (Only On: 72064
24	93–0489–01	1	Plate–Footrest w/Decal (Only On: 72046
24	94–4243–01	1	Plate–Footrest w/Decal (Only On: 72064
25	92–7020	4	Screw–TTH
26	92–8946	1	Decal–Danger(Only On: 72046
26	93–7314	1	Decal–Danger(Only On: 72064
27	76–1340	1	Decal–USA(Only On: 72046
28	92–6795–01	1	Fender
29	3230–2	1	Screw–CARR

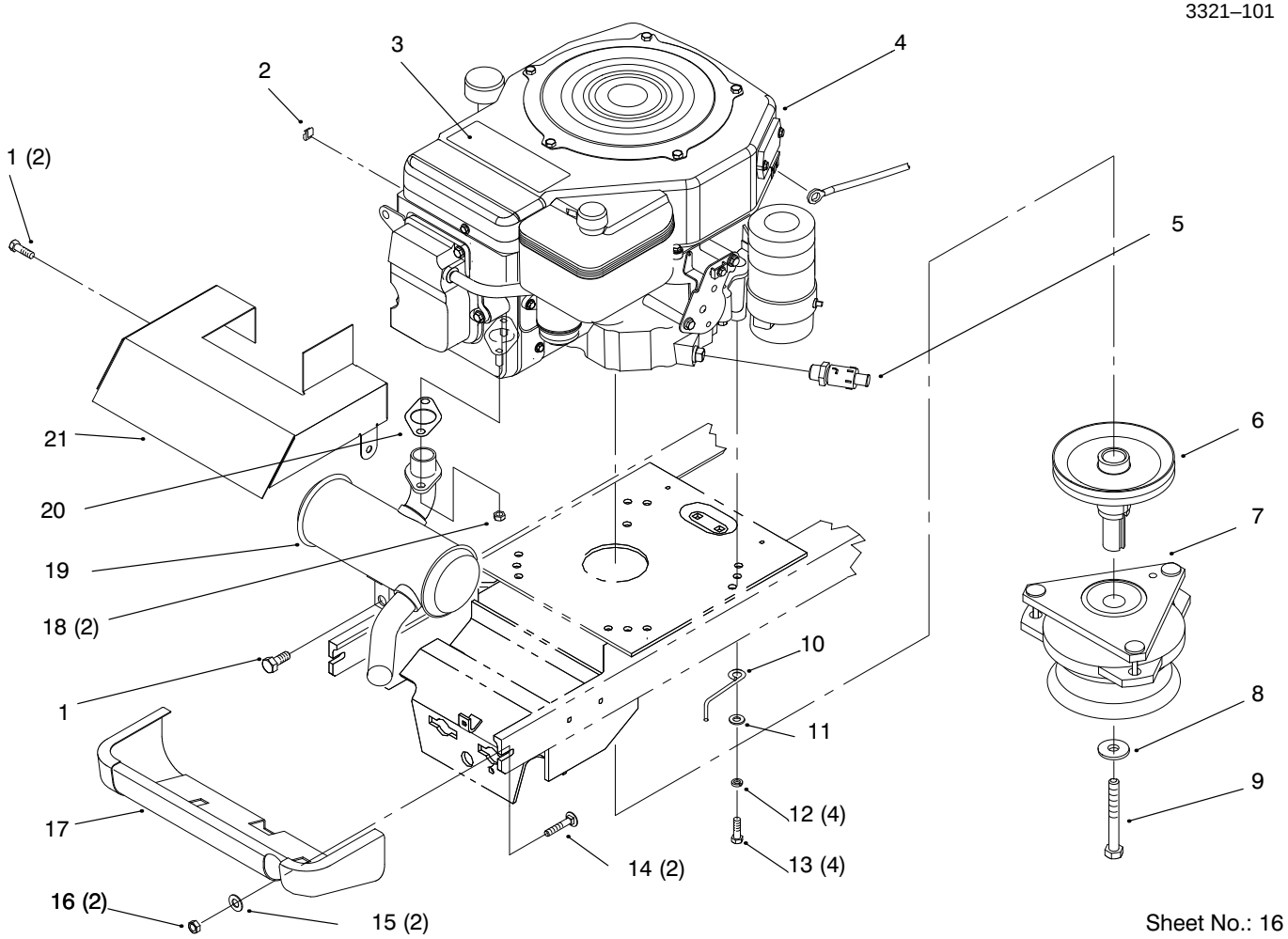


Sheet No.: 7

Fuel Tank and Hydro Reservoir

Ref. No.	Part No.	Qty.	Description
2	88–3980	1	Gas Cap ASM
3	94–6928	1	Tank–Gas
3:1	104047	1	Bushing
3:2	104048	1	Assembly–Valve
4	2412–98	2	Clamp–Hose
5	93–1627	1	Hose–Fuel Line
6	93–1144	2	Spacer–Fuel Tank
7	321–4	2	Screw–HH
8	92–6737	1	Hose
9	2412–129	2	Clamp–Hose
10	79–3500	1	Reservoir
12	3256–22	4	Washer–Flat
13	3296–42	2	Nut–Lock
14	32144–14	2	Screw–HWH (Only On: 70264)
15	93–9275	1	Guard–Fan (Only On: 72064)
16	32104–96	2	Screw–HHST

Ref. No.	Part No.	Qty.	Description



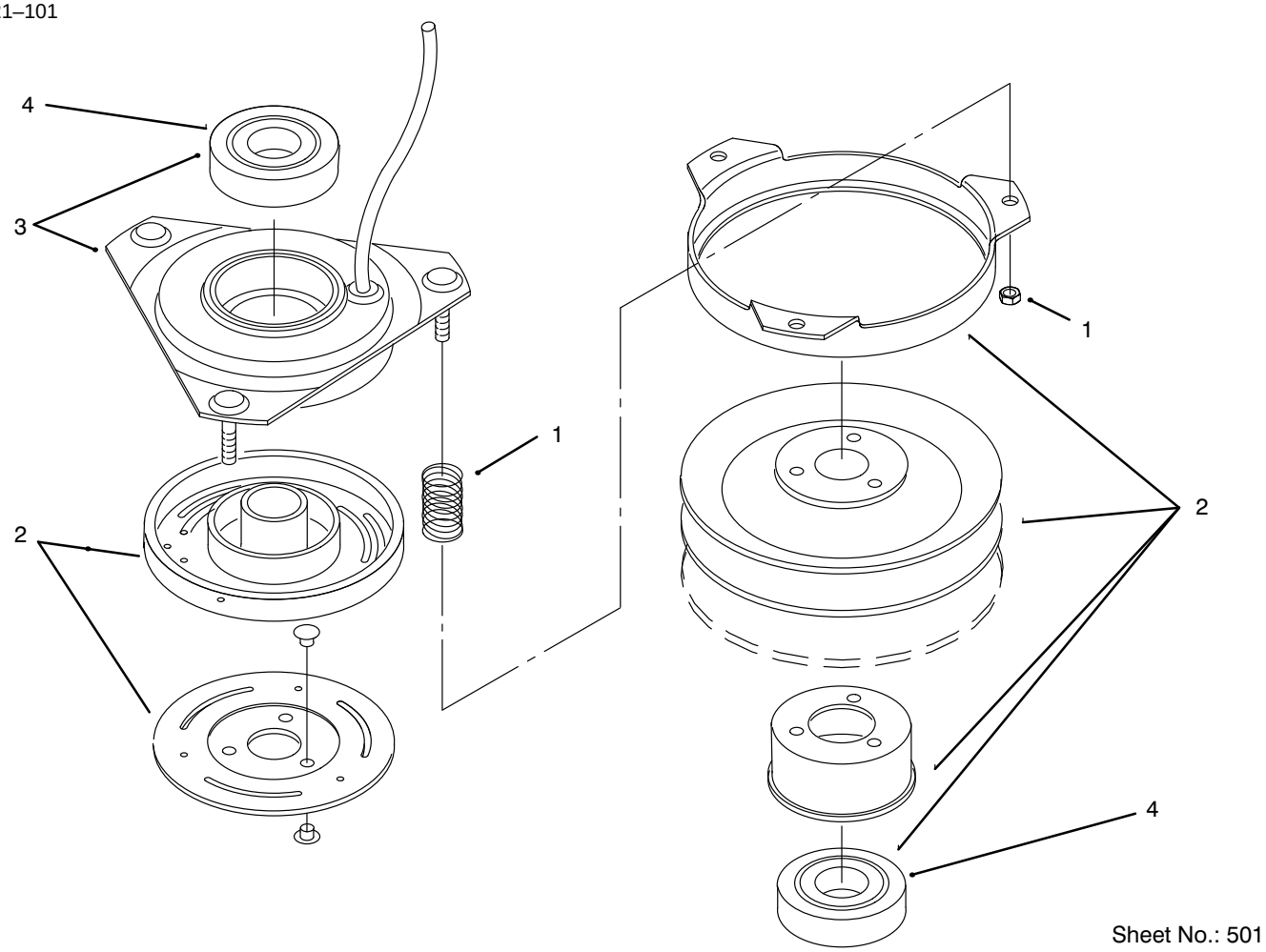
Sheet No.: 16

Single Cylinder Engine, Muffler, and P.T.O.

Ref. No.	Part No.	Qty.	Description
1	32144–14	3	Screw–HWH
2	702366	1	Clip–Wire Retainer
3	94–2970	1	Decal–Toro Power Plus 15
4	95–3041	1	Engine–Kohler(Only On: 70246)
4	95–3042	1	Engine–Kohler(Only On: 70264)
5	92–6877	1	Valve–Oil Drain
6	93–0321	1	Pulley–Engine
7	94–2514	1	Clutch–Electric PTO
8	112843	1	Washer–PTO
9	9114466	1	Screw HH
10	79–0390	1	Guide–Belt
11	3256–23	1	Washer–Flat
12	3253–4	4	Washer–Lock
13	33114–030	4	Screw–HH
14	3231–25	2	Screw–CARR
15	3256–24	2	Washer–Flat
16	3296–39	2	Nut–Lock
17	92–6867–01	1	Shield–Muffler
18	92–6780	2	Nut–HHF
19	95–1663	1	Muffler
20	92–6716	1	Gasket–Exhaust
21	92–6878–03	1	Baffle–Muffler

Ref. No.	Part No.	Qty.	Description

3321–101

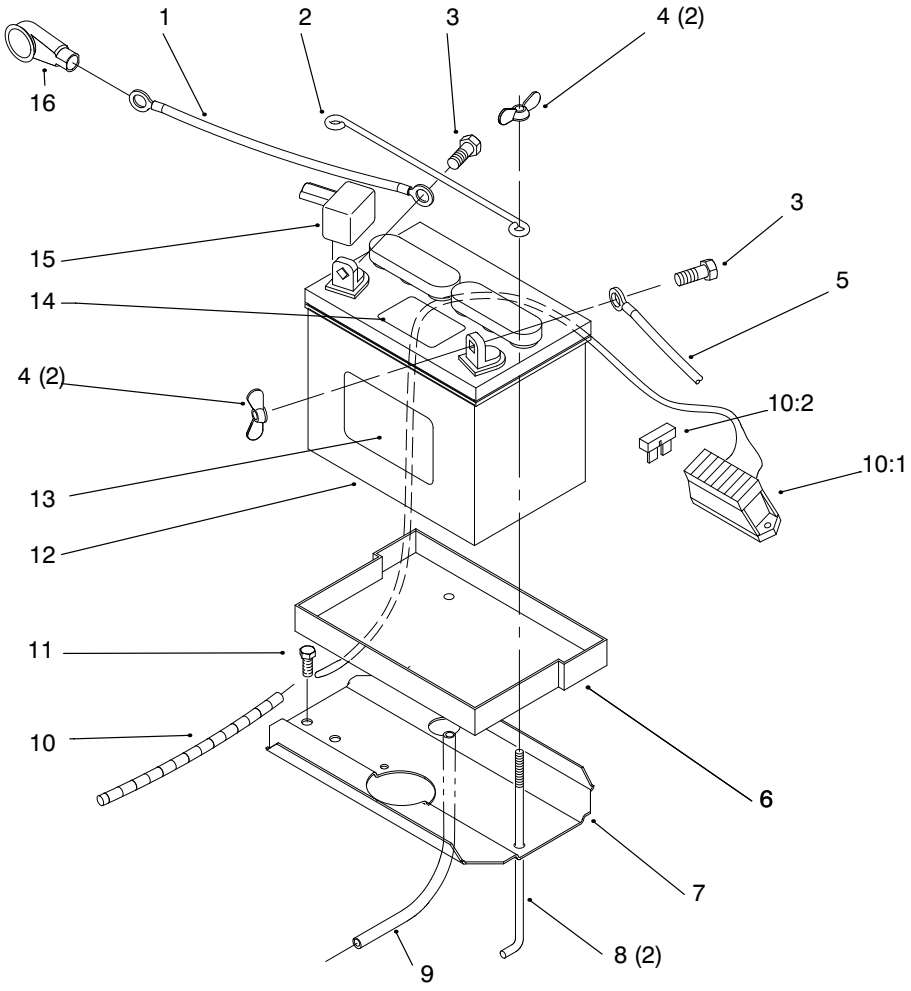


Sheet No.: 501

Clutch

Ref. No.	Part No.	Qty.	Description
1	92–3014	3	Nut & Spring ASM
2	92–3015	1	Rotor & Armature Asm (Only On: 70264)
2	94–4930	1	Rotor & Armature ASM (Only On: 70246)
3	92–3016	1	Field ASM w/Bearing
4	114064	2	Bearing–Elec Clutch

Ref. No.	Part No.	Qty.	Description

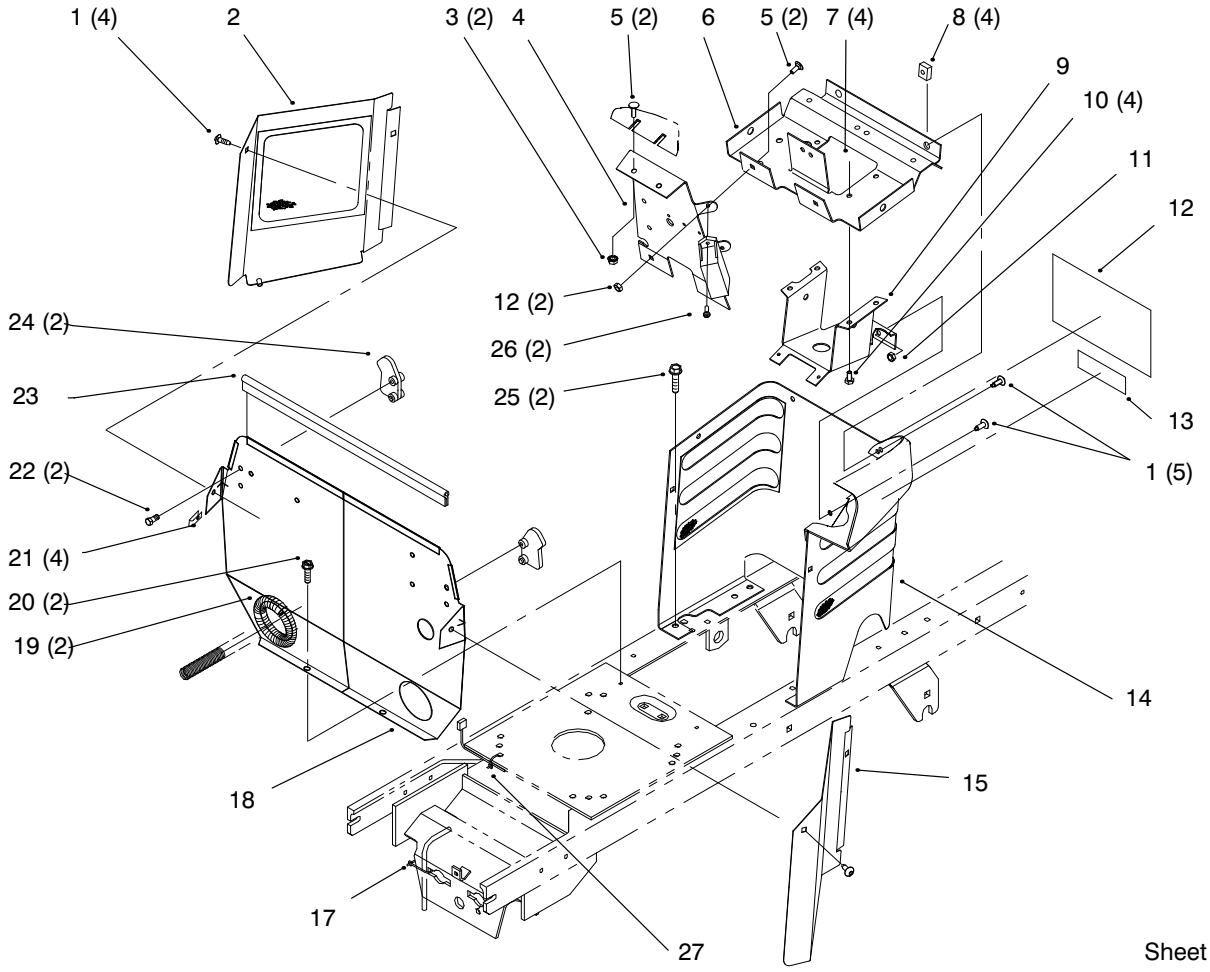


Sheet No.: 6

Battery

Ref. No.	Part No.	Qty.	Description
1	92–6990	1	Cable–Battery Red
2	117316	1	Rod–Battery Hold Down
3	321–4	2	Screw–HH
4	32103–22	4	Nut–Wing
13	93–6668	1	Decal Instrt (Only On: 72064
5	111078	1	Cable–Battery Black
6	106948	1	Tray–Battery
7	78–6820–03	1	Plate–Battery
8	109547	2	Hook–Battery
9	114720	1	Tube–Battery Drain
10	94–2862	1	Harness–Wire
10:1	120930	1	Fuse Holder
10:2	110928	1	Fuse–5A
10:2	218–578	1	Fuse–10A
10:2	109102	1	Fuse–25A
10:2	NN10277	1	Fuse–30A
11	32144–14	1	Screw–HWH
12	105842	1	Battery
13	93–6668	1	Decal Instrt (Only On: 72064
14	93–7276	1	Decal Danger (Only On: 72064
15	28–8080	1	Boot–Battery Terminal

Ref. No.	Part No.	Qty.	Description

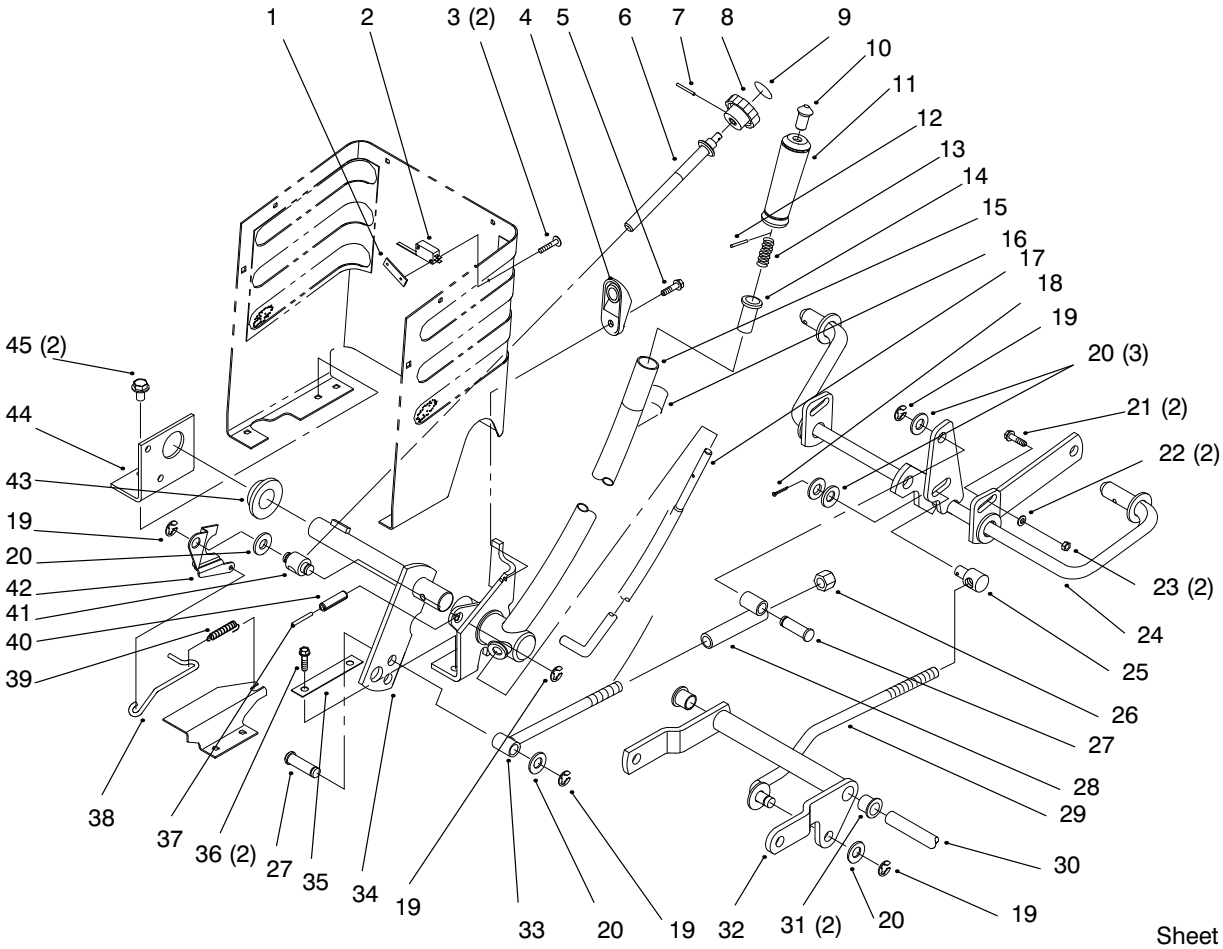


Sheet No.: 10

Hoodstand and Firewall

Ref. No.	Part No.	Qty.	Description
1	92–7020	9	Screw–TTH
2	92–6937–03	1	Cover–Side RH
3	32149–2	2	Nut–Hex Lock
4	94–1712–03	1	Panel–Support
5	3229–11	4	Bolt–CARR
6	92–6859–03	1	Support–Dash
7	3296–8	4	Nut–Lock
8	92–6860	4	Nut–Retainer
9	92–6778–03	1	Support–Column
10	321–4	4	Screw–HH
11	3296–42	3	Nut–Lock
12	93–0302	1	Decal–Slope/Park Brake (Only On: 72046)
12	93–7313	1	Decal–Slope/Park Brake (Only On: 72064)
13	83–6620	1	Decal–Instruction
14	93–0485–03	1	Hoodstand w/Decals
15	92–6936–03	1	Cover–Side LH
16	95–0804	2	Decal–265–6
18	94–1749–03	1	Firewall
19	24–7924	2	Cover–Drive Shaft
20	32144–4	2	Screw–TAP
21	92–7006	4	Nut
22	46–8093	2	Screw–TAP

Ref. No.	Part No.	Qty.	Description
23	93–1131	1	Trim–Seal
24	92–6960	2	Latch–Hood
25	32144–14	2	Screw–HWH
26	32144–8	2	Screw–PPH

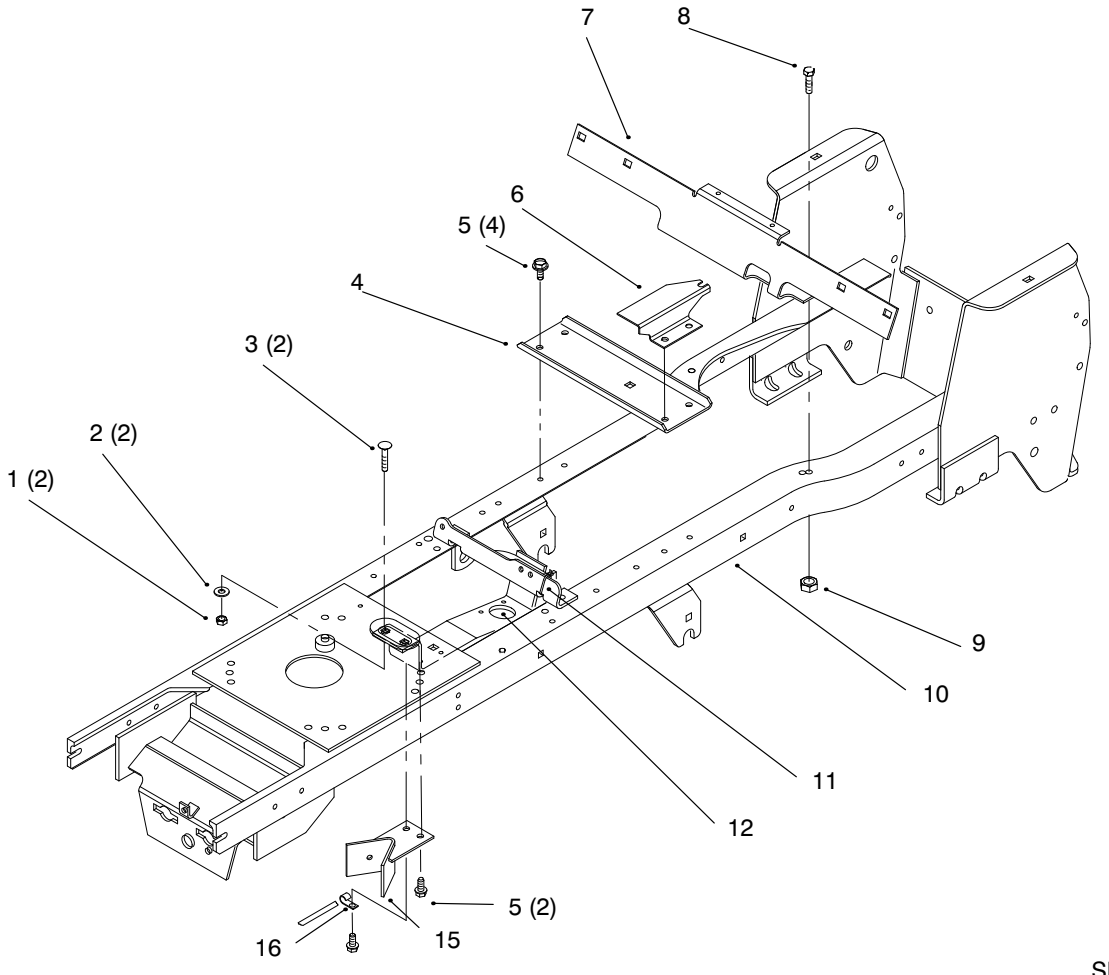


Sheet No.: 11

Lift Lever and Height of Cut

Ref. No.	Part No.	Qty.	Description
1	3290–354	1	Nut–Speed
2	88–9930	1	Switch–Micro
3	95–3003	2	Screw
4	92–6794	1	Wedge–HOC Adjust
5	32144–4	1	Screw–TAP
6	92–6965	1	Rod–HOC
7	933141	1	Pin–Spirol
8	115593	1	Knob
9	78–9740	1	Decal–HOC Knob
10	92–6711	1	Tip–Rod
11	92–6710	1	Grip–Handle
12	933148	1	Pin–Spirol
13	3624	1	Spring–Compression
14	8130	1	Retainer–Spring
15	94–3761–03	1	Lift Lever Wa
16	112168	1	Decal–Lift (Only On: 72046)
16	93–7323	1	Decal–Lift (Only On: 72064)
17	92–6977–03	1	Rod–Lift Lever
18	3272–6	1	Pin–Cotter
19	32120–47	5	Ring–Retaining
20	3256–26	6	Washer–Flat
21	3231–25	2	Screw–CARR
22	3256–24	2	Washer–Flat
23	3296–39	2	Nut–Lock

Ref. No.	Part No.	Qty.	Description
24	79–3401–03	1	Gage Shaft
25	8870	1	Trunnion
26	3296–23	1	Nut–Lock
27	79–1250	2	Pin
28	78–7390	1	Link
29	78–2431	1	Rod
30	94–4944	1	Shaft
31	256–90	2	Bushing–Flange
32	92–6855–03	1	Arm
33	78–7360	1	Rod
34	94–3552–03	1	Lift Arm
35	78–6810–03	1	Plate
36	32144–14	2	Screw–HWH
37	32121–103	1	Pin–Spring
38	92–6978	1	Rod–HOC Indicator
39	92–7007	1	Spring–Extension
40	32121–25	1	Pin–Roll
41	78–2140	1	Trunnion
42	92–6979	1	Plate–HOC Gage
43	106269	1	Bearing–Flange
44	93–0523–03	1	Bracket–Pivot Linkage
45	32144–70	2	Screw–TAP

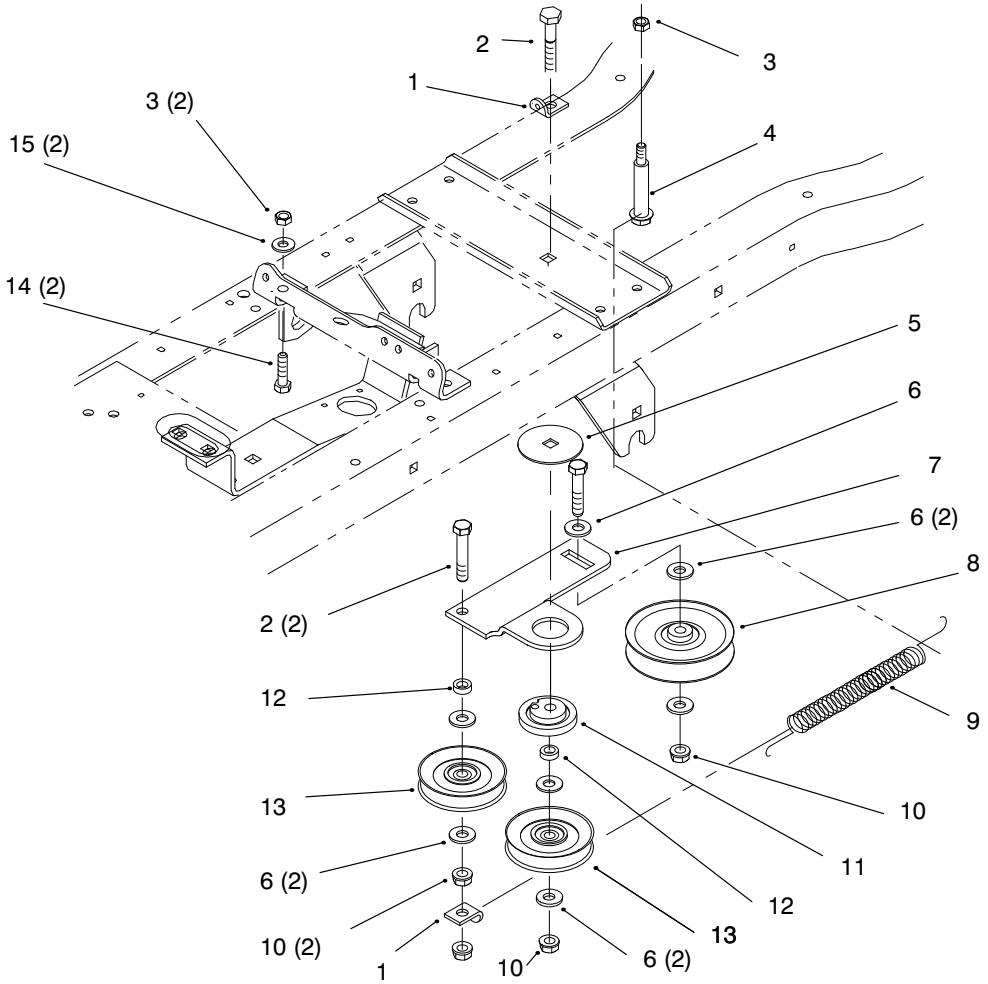


Sheet No.: 14

Frame

Ref. No.	Part No.	Qty.	Description
1	3296–29	2	Nut–Lock
2	3256–23	2	Washer–Flat
3	3230–2	2	Screw–CARR
4	92–6868–03	1	Bracket–Idler
5	32144–14	6	Screw–HWH
6	92–6964–03	1	Bracket–HOC
7	92–6674–03	1	Support–Fender
8	322–5	1	Screw–HH
10	94–2668	1	Frame Wa
12	92–6992–03	1	Bracket–Steering
13	93–7324	2	Decal–Installation (Only On: 72064
14	92–8747	2	Decal–Attach A Matic
15	78–2491–03	1	Stop–PTO
16	8830	1	Retainer–”J”

Ref. No.	Part No.	Qty.	Description

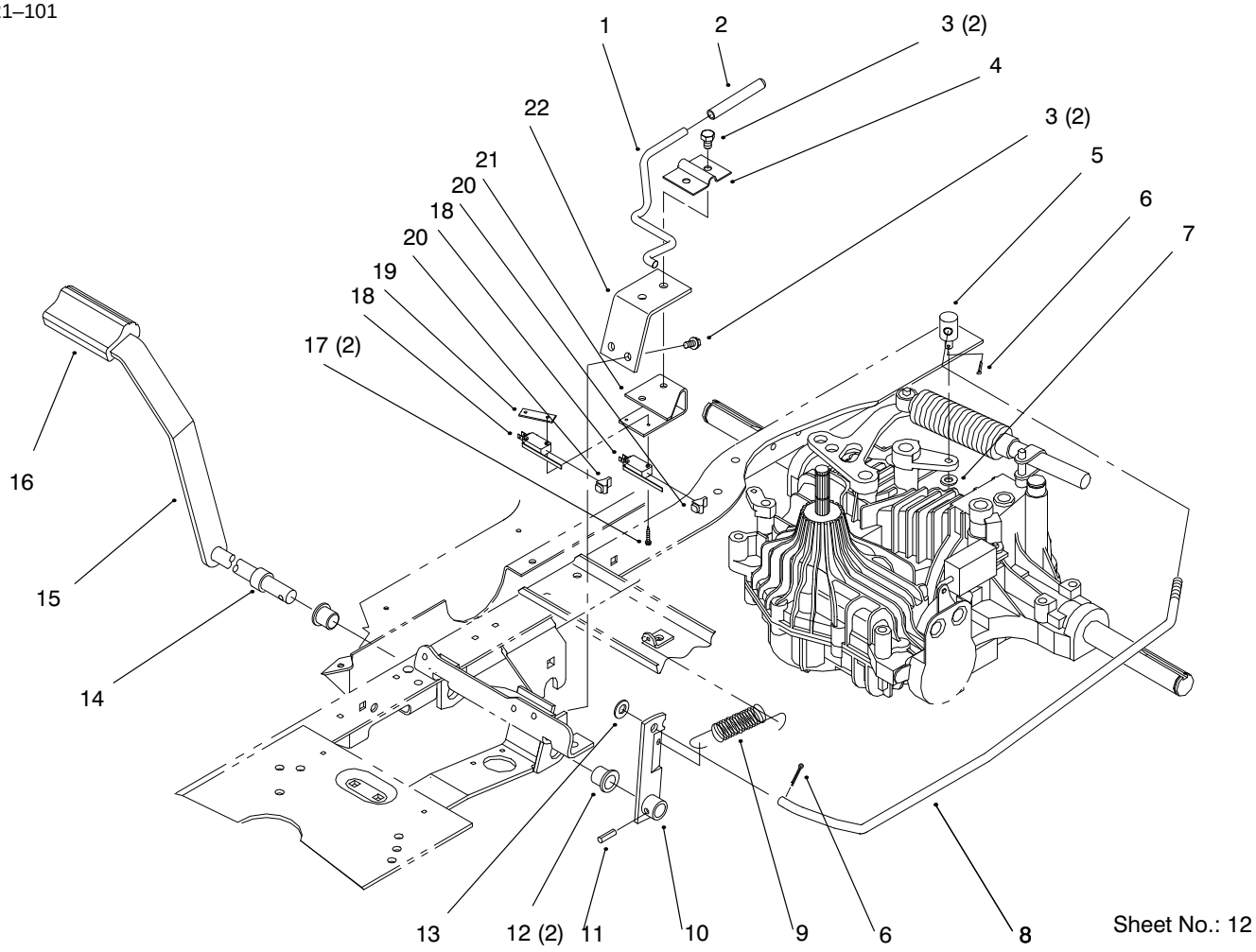


Sheet No.: 3

Hydro Drive Components

Ref. No.	Part No.	Qty.	Description
1	2534	2	Clip–Spring
2	323–10	3	Screw–HH
3	3296–29	3	Nut–Lock
4	88–4590	1	Bolt–Shoulder
5	111419	1	Washer–Bearing
6	3256–24	7	Washer–Flat
7	92–6900	1	Arm–Idler
8	92–7101	1	Pulley–Flat
9	79–7530	1	Spring–Extension
10	3296–59	4	Nut–Lock
11	111418	1	Bushing
12	93–3658	2	Spacer
13	92–7102	2	Pulley–Idler
14	322–5	2	Screw–HH
15	3256–23	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

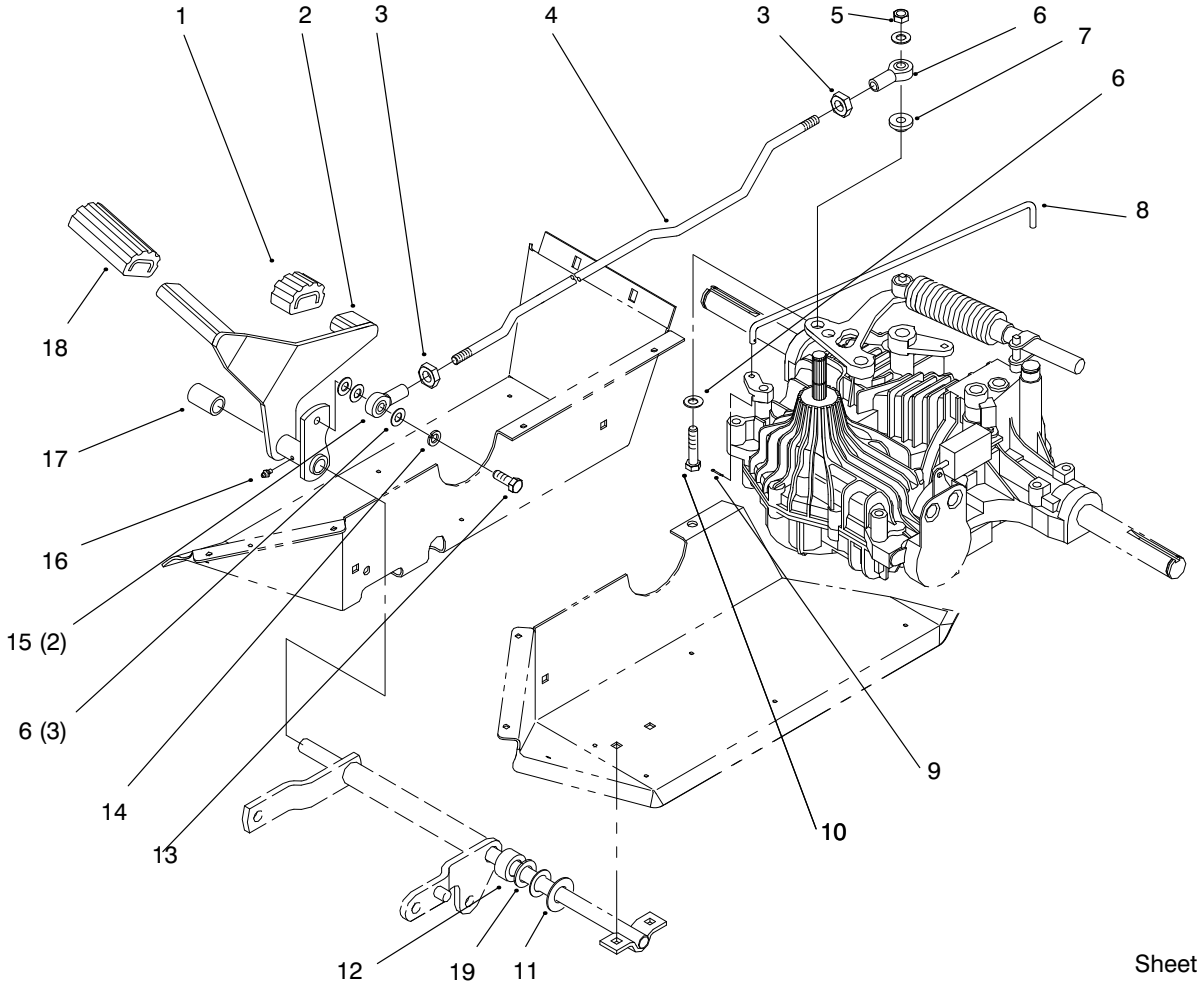


Sheet No.: 12

Hydro Brake

Ref. No.	Part No.	Qty.	Description
1	93–3167	1	Rod–Park Brake
2	92–7009	1	Grip–Parking Brake
3	32144–14	4	Screw–HWH
4	92–7000–03	1	Bracket–Park Brake
5	92–6968	1	Trunnion–Brake
6	3272–6	2	Pin–Cotter
7	3256–23	1	Washer–Flat
8	92–6988	1	Rod–Brake
9	93–0540	1	Spring–Extension
10	94–1722–03	1	Lever–Brake
11	32121–69	1	Pin–Spring
12	256–90	2	Bushing–Flange
13	3256–24	1	Washer–Flat
14	92–6982	1	Spacer–Brake
15	94–4233–03	1	Pedal–Brake
16	65–2920	1	Pad–Pedal
17	93–0539	2	Screw–PPH
18	88–9932	2	Switch – Micro
19	3290–354	1	Nut–Speed
20	93–3240	2	Seal–Plunger
21	93–0520–03	1	Bracket–Switch
22	92–7004–03	1	Support–Park Brake

Ref. No.	Part No.	Qty.	Description



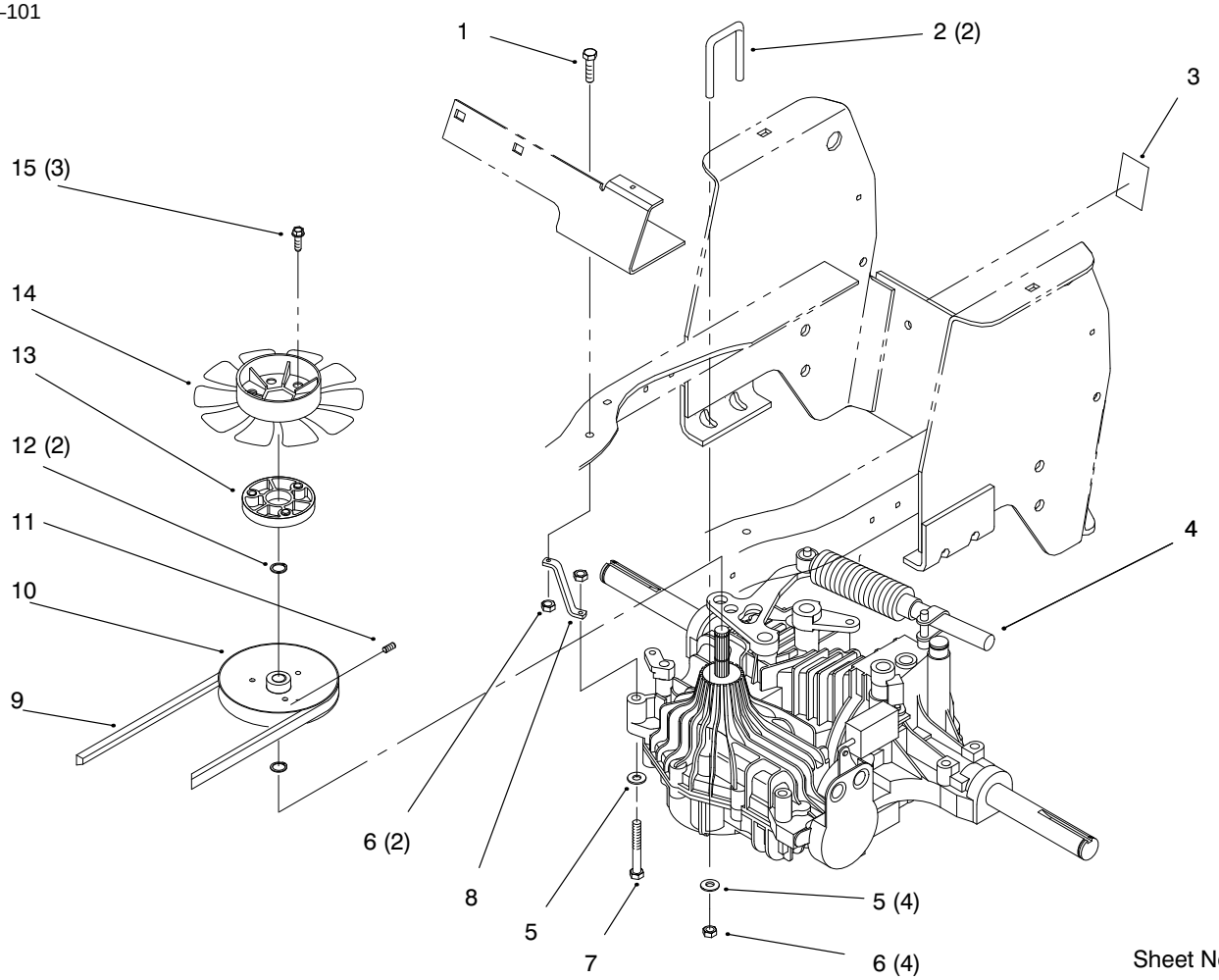
Sheet No.: 13

Hydro Control

Ref. No.	Part No.	Qty.	Description
1	92–6903	1	Pad–Pedal Reverse
2	92–6913–03	1	Pedal–Hydro
3	3220–3	2	Nut–Hex Jam
4	92–7018	1	Rod
5	3296–39	1	Nut–Lock
6	3256–24	4	Washer–Flat
7	92–6962	1	Bushing
8	94–1588	1	Rod–Bypass
9	3272–2	1	Pin–Cotter
10	323–10	1	Screw–HH
11	94–6875	1	Washer
12	94–4945	1	Spacer
13	323–7	1	Screw–HH
14	3253–5	1	Washer–Lock
15	92–7008	2	Rod End
16	302–26	1	Fitting–Grease
17	92–6966	1	Spacer–Hydro Pedal
18	92–6902	1	Pad–Pedal Forward
19	9202154	2	Washer–Flat

Ref. No.	Part No.	Qty.	Description

3321–101

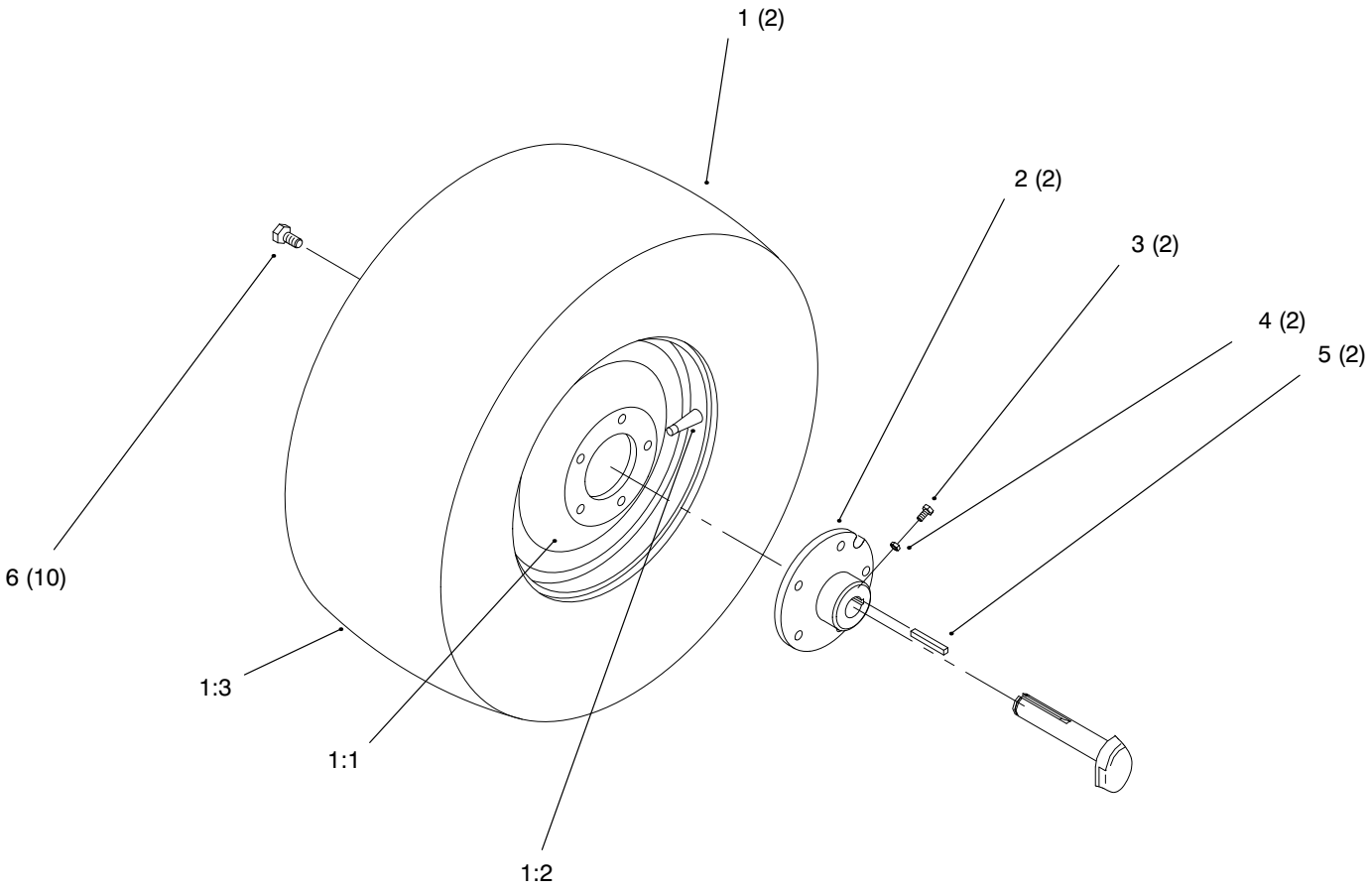


Sheet No.: 15

Hydro Transaxle

Ref. No.	Part No.	Qty.	Description
1	322–6	1	Screw–HH
2	92–6769	2	U–Bolt
3	92–6726	1	Decal–Hydro Valve (Only On: 72085)
3	92–7090	1	Decal–Bypass (Only On: 72104)
4	94–4205	1	Transaxle–Hydro
5	3256–23	5	Washer–Flat
6	3296–29	6	Nut–Lock
7	322–12	1	Screw HH
8	93–0546–03	1	Strap–Torque
9	92–6954	1	Belt
10	92–6686	1	Pulley
11	3245–32	1	Screw–Set
12	936118	2	Snap Ring
13	92–6943	1	Spacer–Fan
14	92–6742	1	Fan
15	49–2040	3	Screw–HH

Ref. No.	Part No.	Qty.	Description



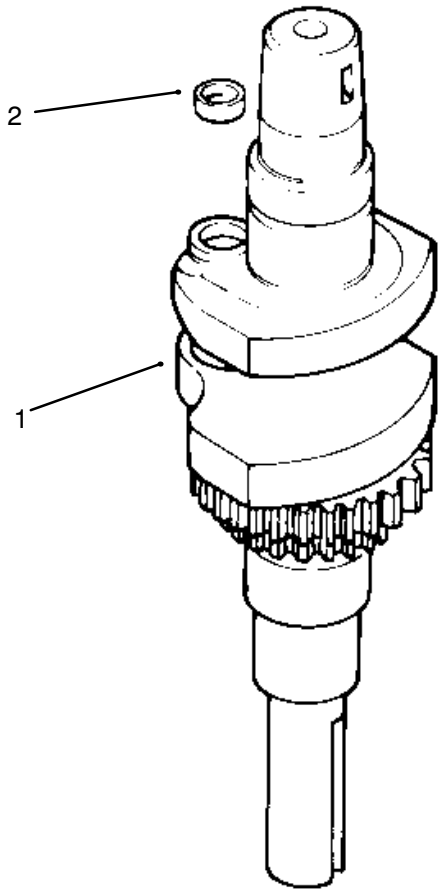
Sheet No.: 24

Rear Wheel

Ref. No.	Part No.	Qty.	Description
☆1		2	Wheel & Tire ASM
1:1	78–1221	2	Wheel
1:2	5108	2	Valve–Tire Tubeless
1:3	116744	2	Tire
2	93–3659–03	2	Hub–Wheel
3	3243–5	4	Screw–Set
4	3218–3	4	Nut–HJ
5	5–1336	2	Key
6	83–2720	10	Bolt–Lug

Ref. No.	Part No.	Qty.	Description

☆ Not serviced



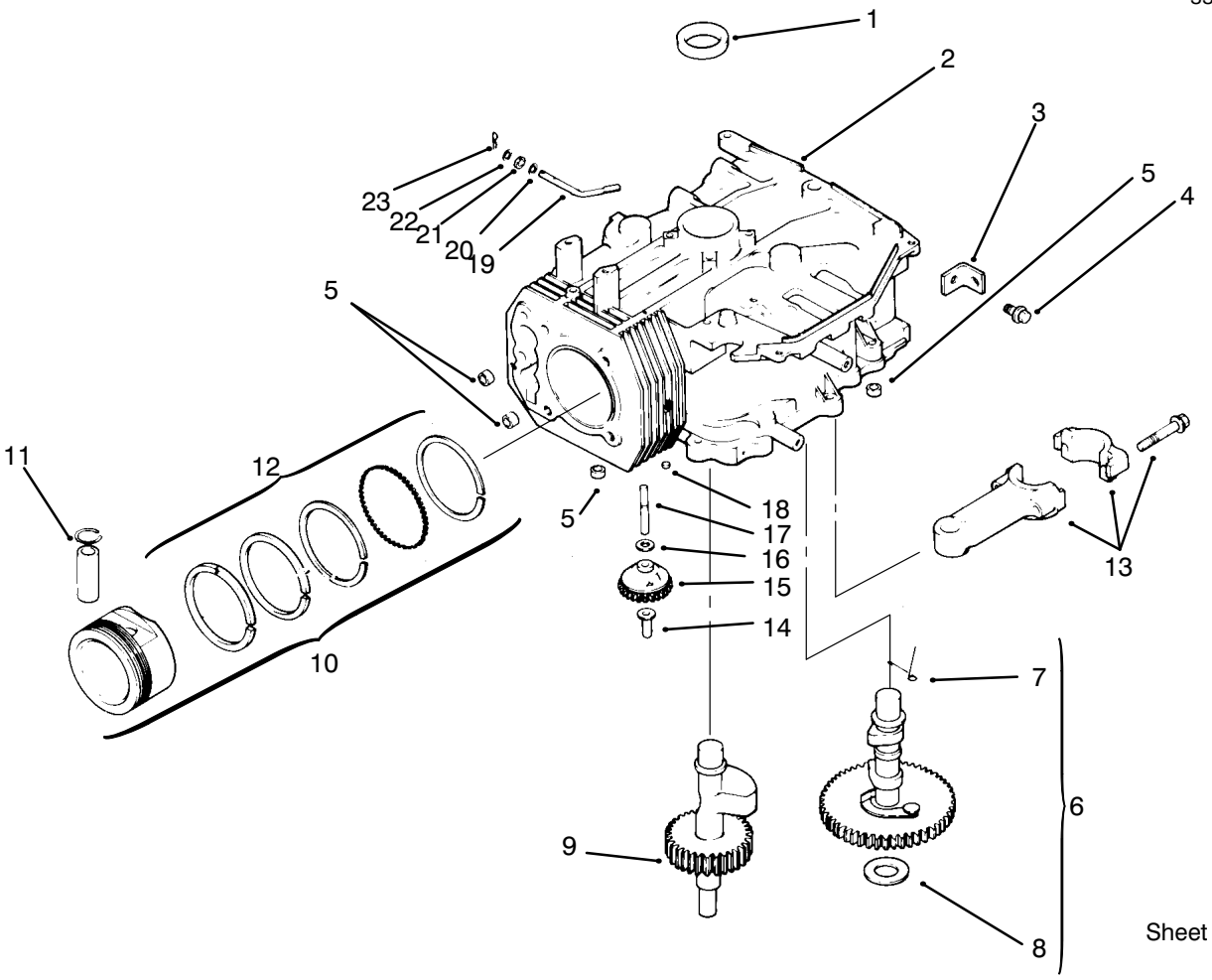
Sheet No.: 101
C–1948

Crankshaft

Ref. No.	Part No.	Qty.	Description
1	12 014 37	1	Crankshaft
2	12 139 01	1	Plug–Cup

Ref. No.	Part No.	Qty.	Description

3321–101



Sheet No.: 102
C–1949

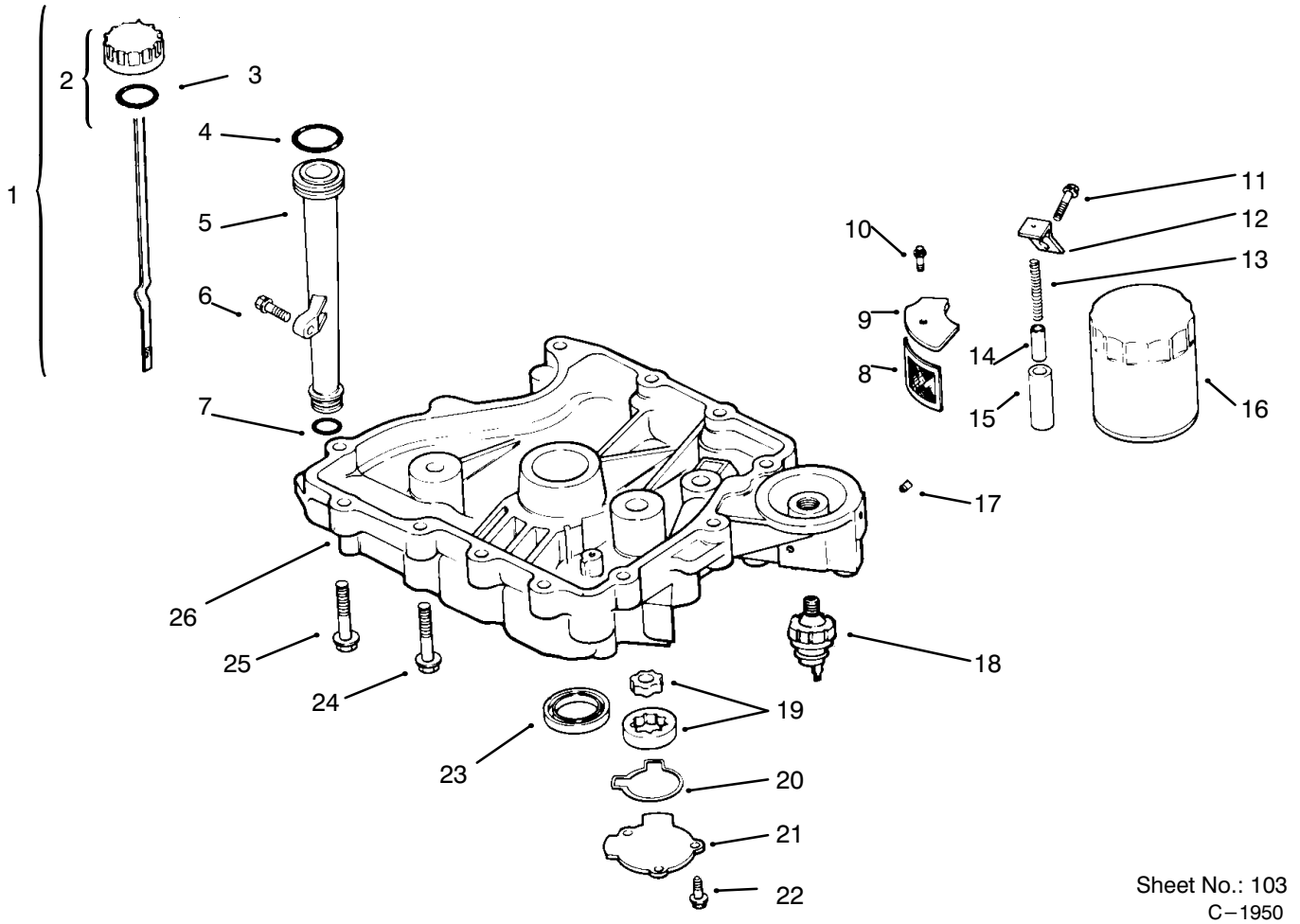
Crankcase

Ref. No.	Part No.	Qty.	Description
1	12 032 03	1	Seal–Crankshaft
2	12 522 18	1	Block–Short
3	12 445 02	1	Strap–Lifting
4	M–0839025	1	Screw M8x1.25x22
5	12 380 03	4	Dowel–Locating
6	12 755 49	1	Kit–Camshaft INC 7–8
†7	12 089 18	1	Spring–Actuating
†8	12 422 07	1	Shim–Camshaft A/R
†8	12 422 08	1	Shim–Camshaft A/R
†8	12 422 09	1	Shim–Camshaft A/R
†8	12 422 10	1	Shim–Camshaft A/R
†8	12 422 11	1	Shim–Camshaft A/R
†8	12 422 12	1	Shim–Camshaft A/R
†8	12 422 13	1	Shim–Camshaft A/R
9	12 144 27	1	Shaft–Balance
10	12 874 07	1	Piston ASM STD Incl 11–2
10	12 874 08	1	Piston ASM .25 Incl 11–2
10	12 874 09	1	Piston ASM .50 Incl 11–2
†11	12 018 02	2	Retainer–Piston Pin
12	12 018 07	1	Ring Set STD
12	12 018 08	1	Ring Set .25

Ref. No.	Part No.	Qty.	Description
12	12 018 09	1	Ring Set .50
13	12 067 05	1	Rod Connecting STD
13	12 067 06	1	Rod Connecting .25
14	12 380 01	1	Pin–Governor Regulating
15	12 043 05	1	Gear–Governor ASM
16	M–0631005	1	Washer–Governor
17	12 144 02	1	Shaft–Governor Gear
18	52 139 09	1	Plug–Cup
19	12 755 64	1	Shaft–Governor Cross
20	M–0631015	1	Washer–Governor Shaft
21	12 032 01	1	Seal–Governor Shaft
22	X–25–102	1	Washer–Flat
23	12 154 05	1	Pin–Governor Hitch
*	12 722 59	1	Gasket Set

* Not illustrated
† Included in a service kit or in an assembly

3321–101



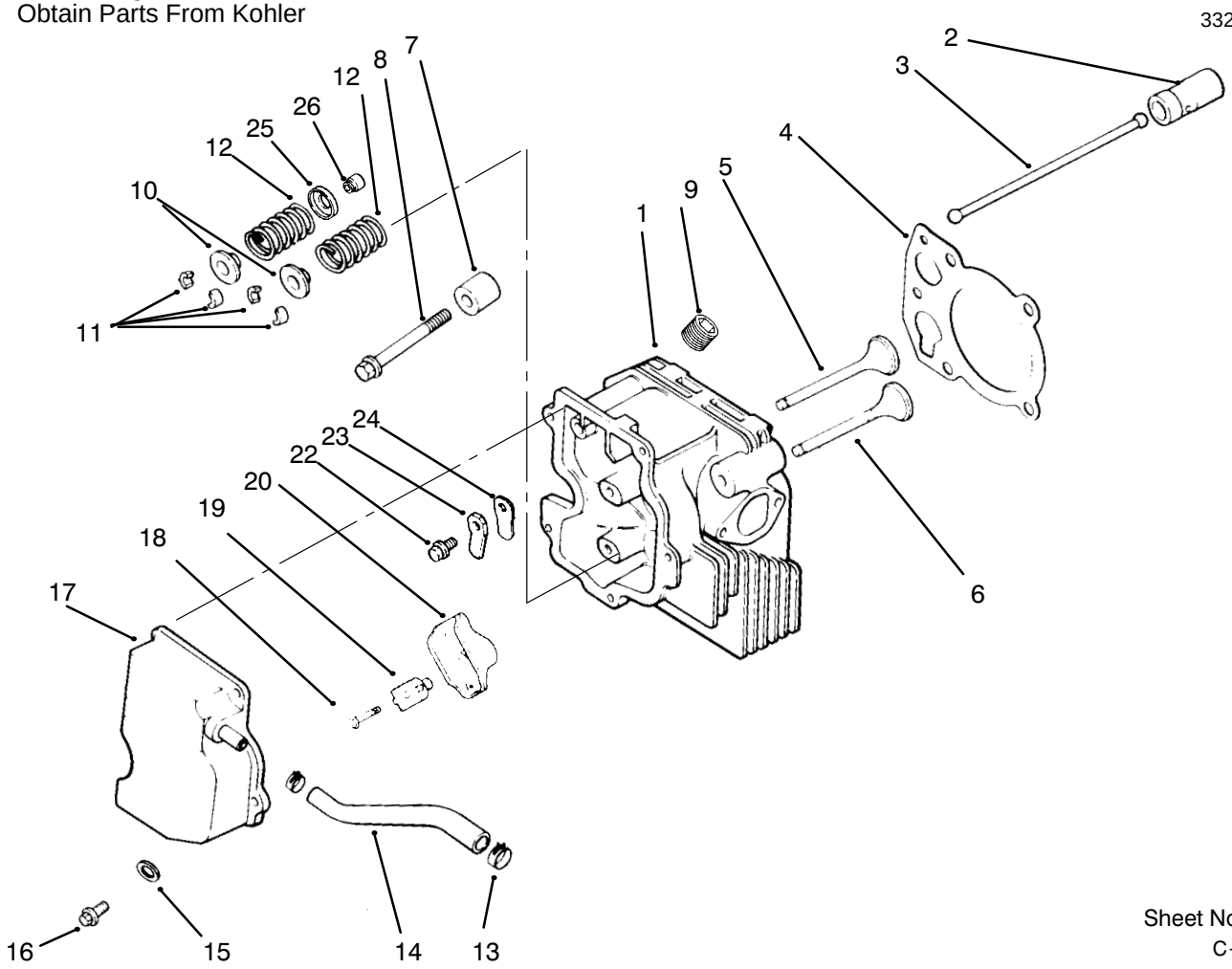
Sheet No.: 103
C–1950

Oil Pan / Lubrication

Ref. No.	Part No.	Qty.	Description
1	12 038 01	1	Dipstick INC 2–3
†2	25 755 13	1	Kit–Oil Cap INC 3
†3	12 153 03	1	O Ring–Fill Cap
4	12 153 02	1	O Ring–Upper Fill Tube
5	12 123 04	1	Tube–Oil Fill
6	M–0545020	1	Screw M5x0.8x20
7	12 153 01	1	O Ring–Lower Fill Tube
8	12 162 07	1	Screen–Oil Pickup
9	12 096 03	1	Cover–Oil Pickup Screen
10	M–0545016	1	Screw M5x0.8x16
11	M–1039025	1	Screw M10x1.5x25
12	12 126 02	1	Bracket–Oil Pump Relief
13	12 089 03	1	Spring–Oil Relief Valve
14	12 462 01	1	Piston–Oil Relief Valve
15	12 208 01	1	Body–Oil Relief Valve
16	12 050 01	1	Filter–Oil
17	X–75–10	2	Plug–SH 3/8 NPTF
18	52 099 06	1	Switch–Oil Pressure
19	12 393 01	1	Pump–Oil
20	12 032 04	1	O Ring–Oil Pump Cover
21	12 096 02	1	Cover–Oil Pump
22	M–0545016	3	Screw M5x0.8x16
23	12 032 03	1	Seal–Crankshaft
24	24 086 16	11	Screw M8x1.25x45
25	24 086 17	1	Screw M8x1.25x45
26	12 199 21	1	Pan–Oil
*	52 518 21	1	Lead–Oil Switch w/Tabs

† Included in a service kit or in an assembly
* Not illustrated

3321–101

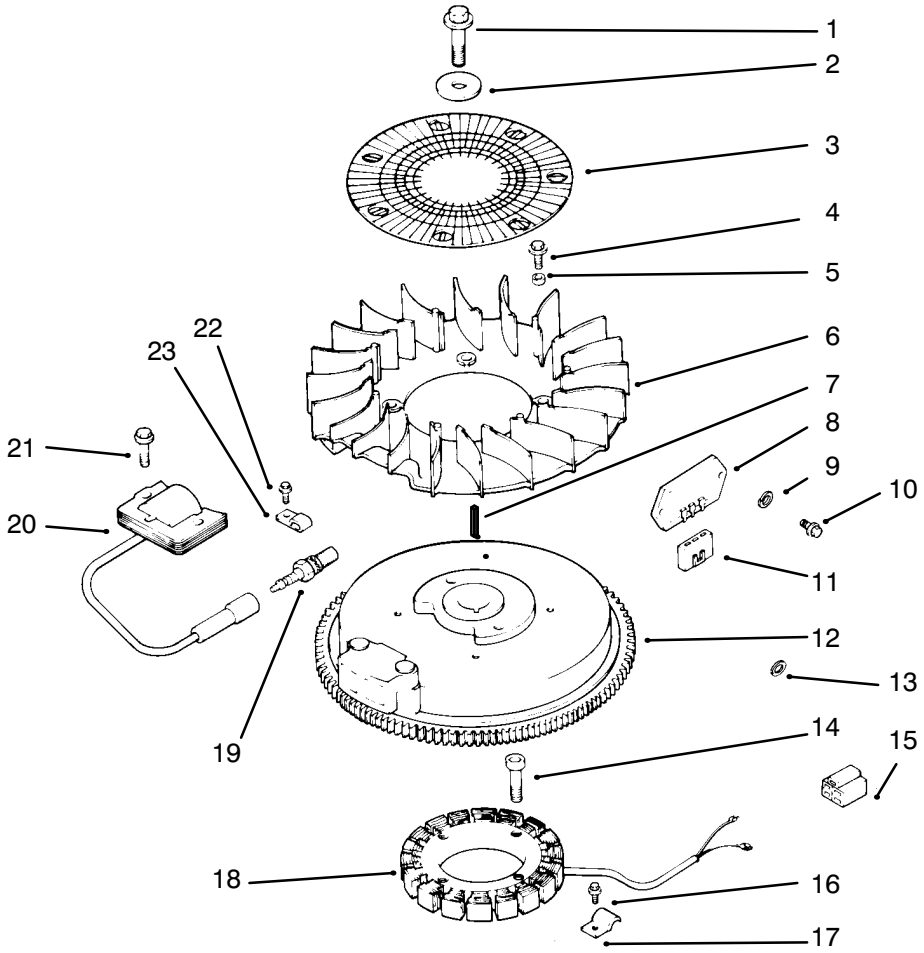


Sheet No.: 104
C–1951

Cylinder Head / Valve / Breather

Ref. No.	Part No.	Qty.	Description
1	12 318 15	1	Cylinder Head
2	12 351 20	1	Lifter–Valve
3	12 411 01	2	Rod–Push
4	12 041 10	1	Gasket–Cylinder Head
5	12 017 01	1	Valve–Intake STD
5	12 017 02	1	Valve–Intake .25
6	12 016 01	1	Valve–Exhaust STD
6	12 016 02	1	Valve–Exhaust .25
7	12 112 13	1	Spacer–Head Bolt Exhaust
8	12 086 15	5	Screw M10x1.5x80
9	X–75–23	1	Plug
10	12 173 01	2	Cap–Valve Spring
11	12 755 03	2	Kit–Retainer
12	12 089 01	2	Spring–Valve
13	X–426–9	2	Clamp–Hose
14	12 326 03	1	Hose–Breather
15	12 468 05	1	Washer–Flat
16	M–0645020	5	Screw–HH M6x1.0x20
17	12 096 07	1	Cover–Valve w/Nipple
18	M–0640034	2	Screw M6x1.0x34
19	12 599 03	2	Pivot–Rocket Arm
20	25 186 01	2	Arm–Rocker
22	M–0545010	1	Screw M5x0.8x10
23	12 018 01	1	Retainer–Breather Reed
24	24 402 02	1	Reed–Breather
25	235011	2	Retainer–Spring
26	24 032 05	2	Seal–Valve Stem
*	12 755 63	1	Kit–Cylinder Head (Incl. 3–12,17–20 25 & 26)

*Not Illustrated



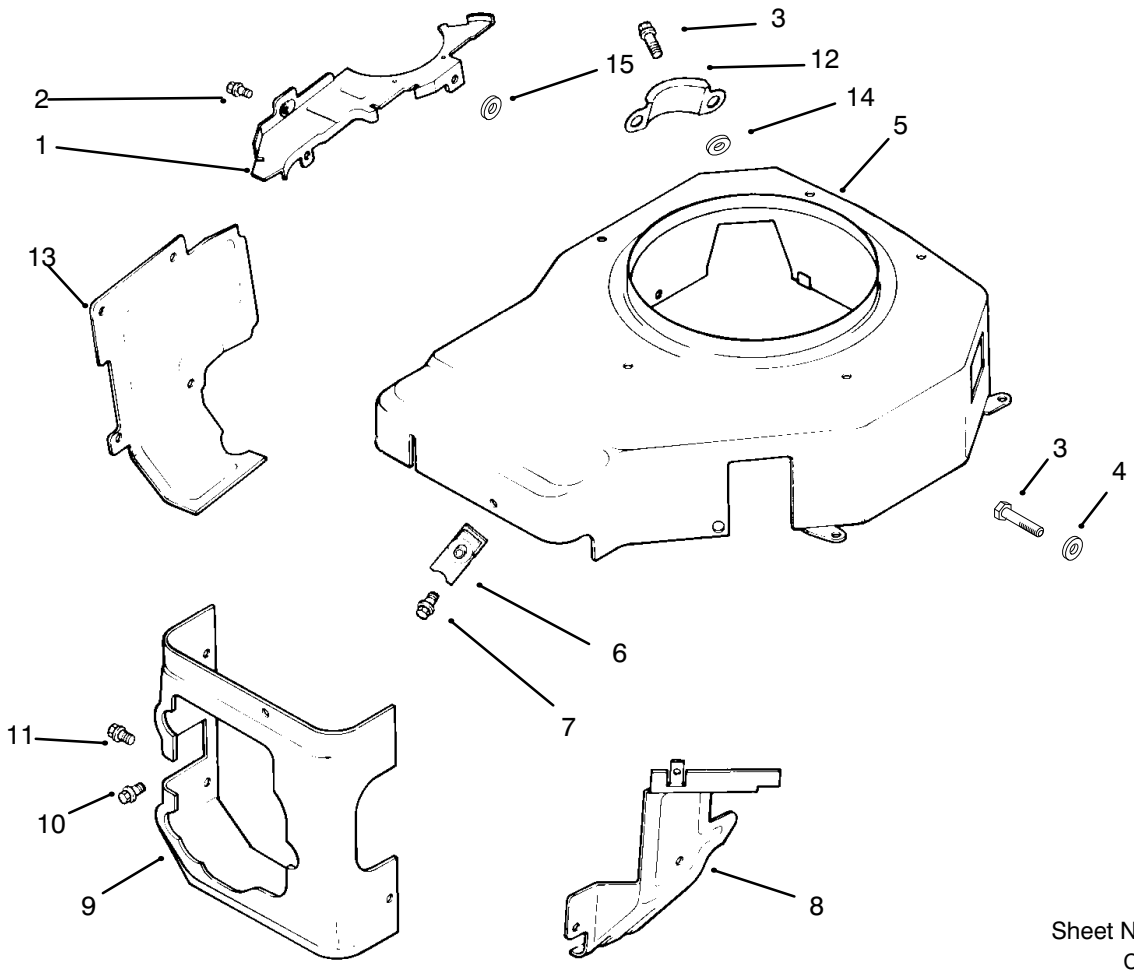
Sheet No.: 105
C–1952

Ignition / Electrical

Ref. No.	Part No.	Qty.	Description
1	12 086 14	1	Screw–Flywheel Mounting
2	12 468 03	1	Washer–Flywheel Screw
3	24 162 03	1	Screen–Grass
4	M–0639016	4	Screw M6x1.0x16
5	12 112 01	4	Spacer–Fan
6	12 157 02	1	Fan
7	X–42–15	1	Key
8	41 403 09	1	Rectifier–Regulator
9	X–22–11	1	Washer–Lock
10	M–0639016	2	Screw M6x1.0x16
11	236602	1	Connector–Regulator
12	12 025 15	1	Flywheel ASM
13	X–25–5	1	Washer–Flat
14	M–0548025	4	Screw M5x0.8x25
15	48 155 01	1	Connector–5 Contact
16	M–0545010	1	Screw M5x0.8x10
17	12 154 02	1	Clip–Stator Harness
18	24 085 01	1	Stator–15 Amp
19	12 132 02	1	Spark Plug
20	12 584 01	1	Module–Ignition
21	M–0545020	2	Screw M5x0.8x20
22	M–0545010	1	Screw M5x0.8x10
23	X–728–1	1	Clip–Kill Lead
*	12 518 01	1	Lead–White
*	25 518 05	1	Lead–Black
*	25 518 29	1	Lead–Black

* Not illustrated

3321–101

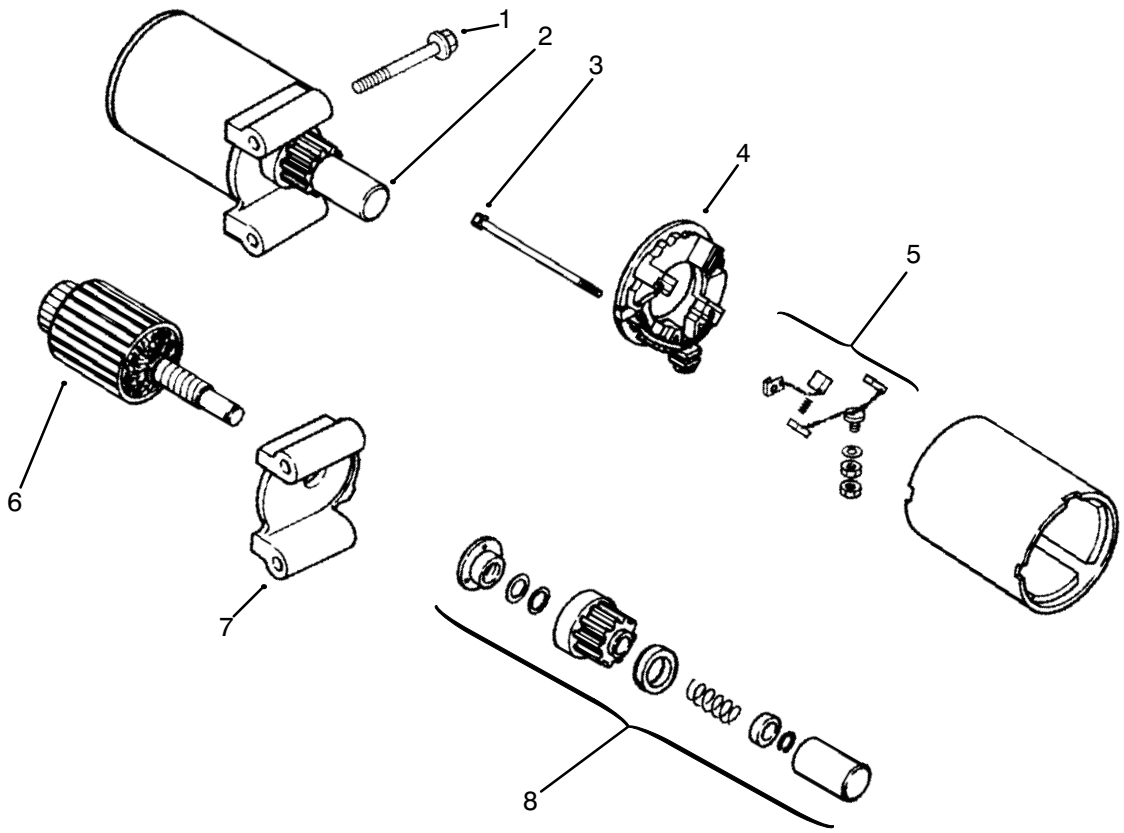


Sheet No.: 106
C–1953

Blower Housing & Baffles

Ref. No.	Part No.	Qty.	Description
1	12 146 07	1	Plate–Blower Housing
2	M–0545010	8	Screw M5x0.8x10
3	24 086 18	2	Screw–Phillips
4	X–25–92	2	Washer–Flat
5	12 027 32	1	Housing–Blower
6	25 154 02	3	Clip
7	M–0545020	3	Screw M5x0.8x20
8	12 063 05	1	Baffle–Carburetor
9	12 063 08	1	Baffle–Cylinder Head
10	M–0645016	2	Screw–HH M6x1.0x16
11	M–0645020	1	Screw–HH M6x1.0x20
12	24 096 05	1	Cover–Pinion
13	12 063 01	1	Baffle–Cylinder Barrel
14	220534	2	Washer Plain 5/16
15	24 468 10	1	Washer Plain 1/4

Ref. No.	Part No.	Qty.	Description



Sheet No.: 107
C–

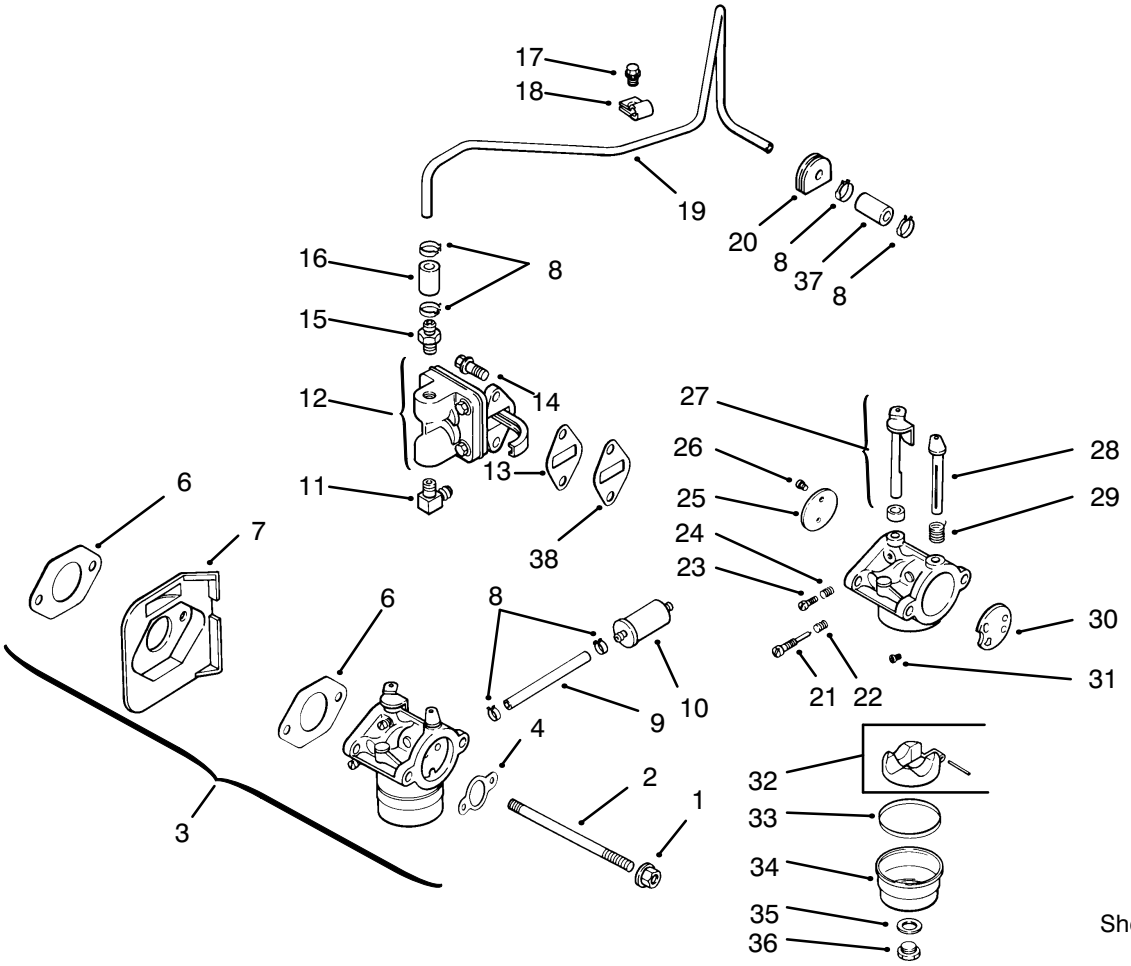
Starting System

Ref. No.	Part No.	Qty.	Description
1	M0839070	2	Screw M8x1.25x70
2	12 098 13	1	Starter ASM Incl 3–8
†3	12 211 01	2	Bolt
†4	12 227 13	1	Cap–Commutator Incl 5
†5	12 221 01	1	Kit–Brush And Spring
†6	12 170 05	1	Armature–Starter
†8	12 755 53	1	Kit–Drive
*	52 357 01	1	Lubricant–Starter

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly
* Not illustrated

3321–101



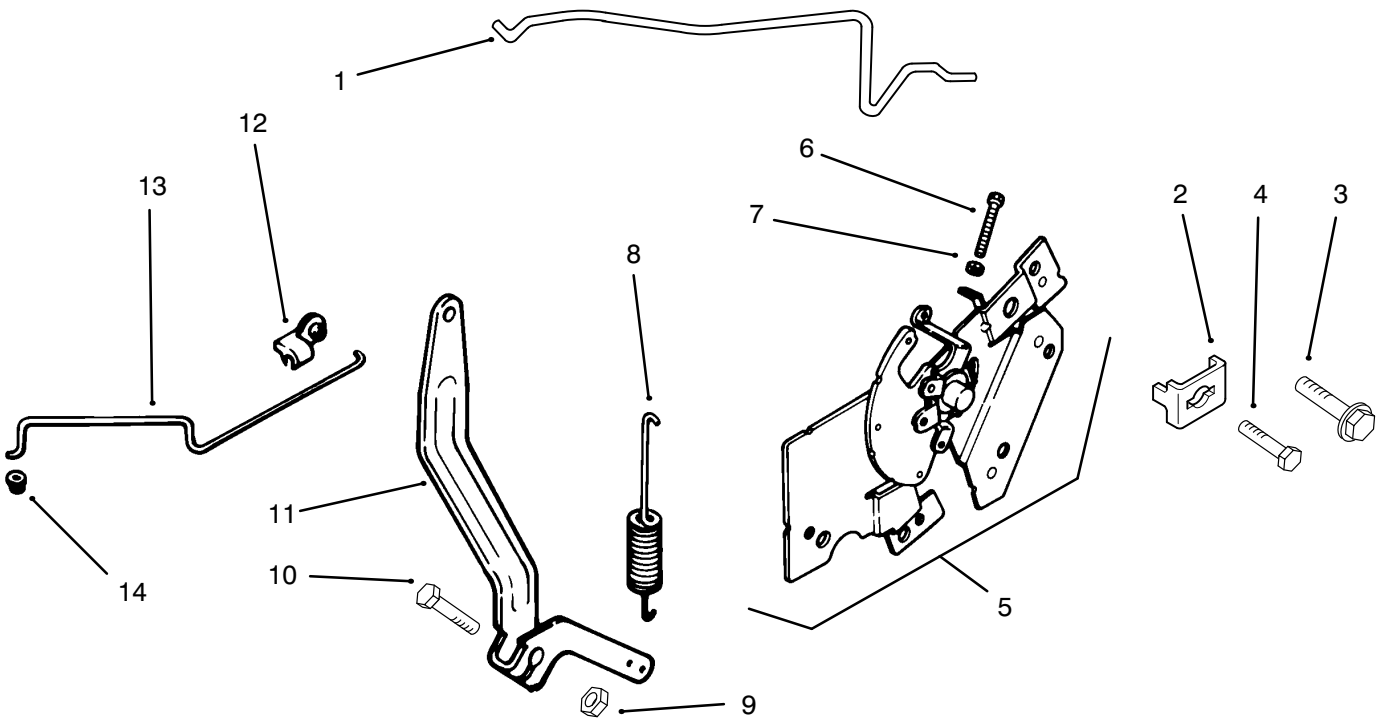
Sheet No.: 108
C–

Fuel System

Ref. No.	Part No.	Qty.	Description
1	M–0641060	2	Nut M6x1.0
2	M–0629122	2	Stud M6x1.0x110
3	12 853 57	1	Kit–Carburator w/Gasket Incl 4–6
†4	12 041 02	1	Gasket–Air Cleaner
†5	12 053 57	1	Carurator ASM Incl 21–36
†6	12 041 01	2	Gasket–Carburetor
7	12 265 04	1	Deflector–Heat
8	X–426–9	1	Clamp–Hose
9	12 353 10	1	Line–Fuel
10	25 050 02	1	Filter–Fuel
11	25 155 02	1	Connector–90°
12	12 559 01	1	Kit–Pump INC 13–14
†13	25 041 09	1	Gasket–Fuel Pump
†14	M–0645020	2	Screw–HH M6x1.0x20
15	X–380–1	1	Connector–Straight
16	12 353 01	1	Line–Fuel 1.25 Inch
17	M–0545010	1	Screw M5x0.8x10
18	12 154 01	1	Clamp–Fuel Line
19	12 123 19	1	Line–Fuel
20	12 313 01	1	Grommet
†21	12 368 05	1	Needle–Idle Fuel Adjust
†22	12 089 09	1	Spring–Idle Fuel

Ref. No.	Part No.	Qty.	Description
†23	12 086 04	1	Screw–Idle Speed Adjust
†24	12 089 09	1	Spring–Idle Fuel
†25	12 146 03	1	Plate–Throttle
†26	25 086 27	1	Screw–Throttle Plate
†27	12 144 09	1	Shaft–w/Lever & Seal
†28	12 144 08	1	Shaft–Choke
†29	12 089 10	1	Spring–Choke Return
†30	12 146 02	1	Plate–Choke
†31	12 337 03	1	Jet–Main
†32	12 757 02	1	Kit–Float
†33	12 041 05	1	Gasket–Bowl
†34	12 104 01	1	Bowl–Fuel
†35	12 041 06	1	Gasket–Bowl Screw
†36	12 086 05	1	Screw–Fuel Bowl
37	25 353 02	1	Line–Fuel 3”
38	12 112 05	1	Spacer–Fuel Pump
*	12 041 01	1	Gasket–Carburetor
*	12 757 03	1	Kit–Carburetor Repair

† Included in a service kit or in an assembly
* Not illustrated



Sheet No.: 109
C–1956

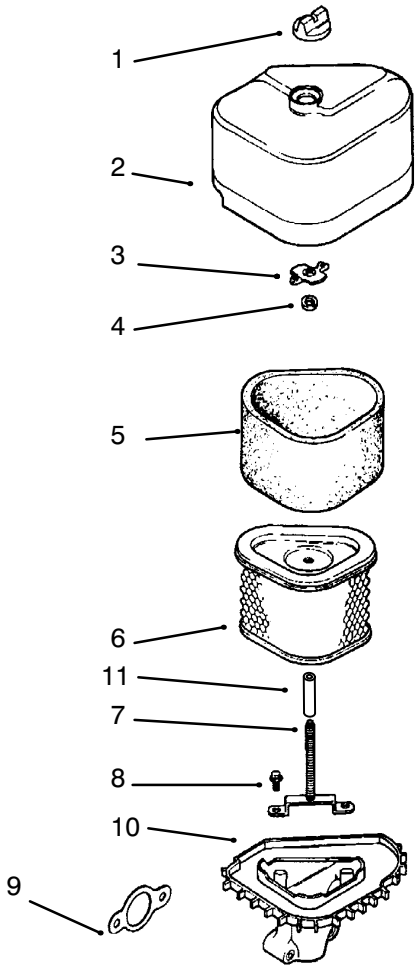
Engine Controls

Ref. No.	Part No.	Qty.	Description
1	12 079 07	1	Linkage–Choke
2	12 237 01	2	Clamp–Cable
3	M–0664020	2	Screw Socket
4	M–0545016	2	Screw M5x0.8x16
5	12 536 02	1	Control–ASM INC 6–7
†6	M–0401030	1	Screw–HHF M4x0.7x28
†7	M–0446030	1	Nut–Hex M4x0.7
8	52 089 07	1	Spring–Governor
9	M–0641060	1	Nut M6x1.0
10	Sm–0642025	1	Screw M6x1.0x25
11	12 090 05	1	Lever–Governor
12	25 158 11	1	Bushing–Linkage
13	12 079 01	1	Linkage–Throttle
14	25 158 08	1	Bushing–Linkage

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly

3321–101



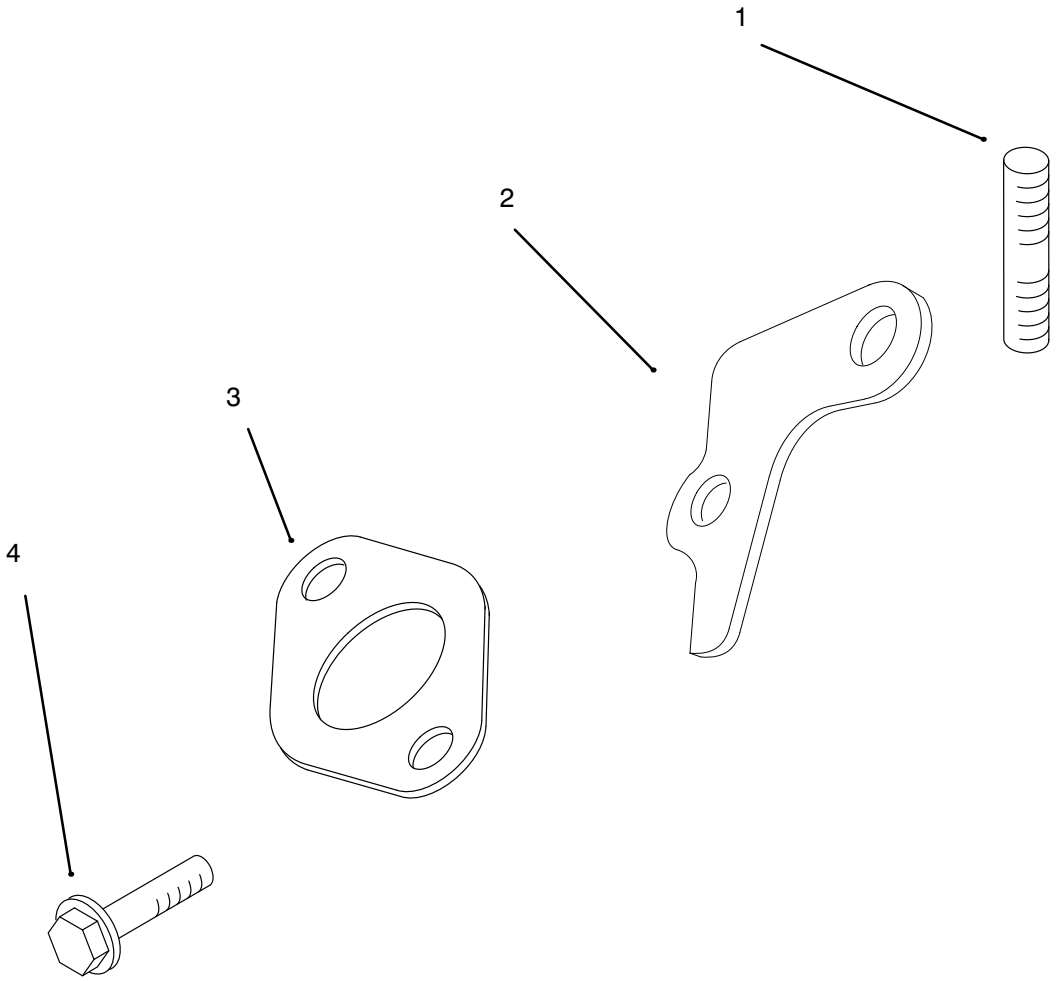
Sheet No.: 110

Air Intake / Filtration

Ref. No.	Part No.	Qty.	Description
1	25 341 03	1	Knob–Air Cleaner Cover
2	12 096 45	1	Cover–Air Cleaner
3	12 100 01	1	Nut–Wing
4	X–25–63	1	Washer–Flat
5	12 083 05	1	Element–Air Cleaner Incl 11
6	12 083 08	1	Precleaner–Element
7	12 072 05	1	Stud–Mounting Plate
8	12 086 01	1	Screw–Mounting Plate
9	12 041 02	1	Gasket–Air Cleaner
10	12 094 05	1	Base–Air Cleaner Incl 7
11	12 032 10	1	Seal
*	12 113 04	1	Decal–Air Cleaner
*	12 743 04	1	Kit–Air Cleaner Incl 1–11

Ref. No.	Part No.	Qty.	Description

* Not illustrated

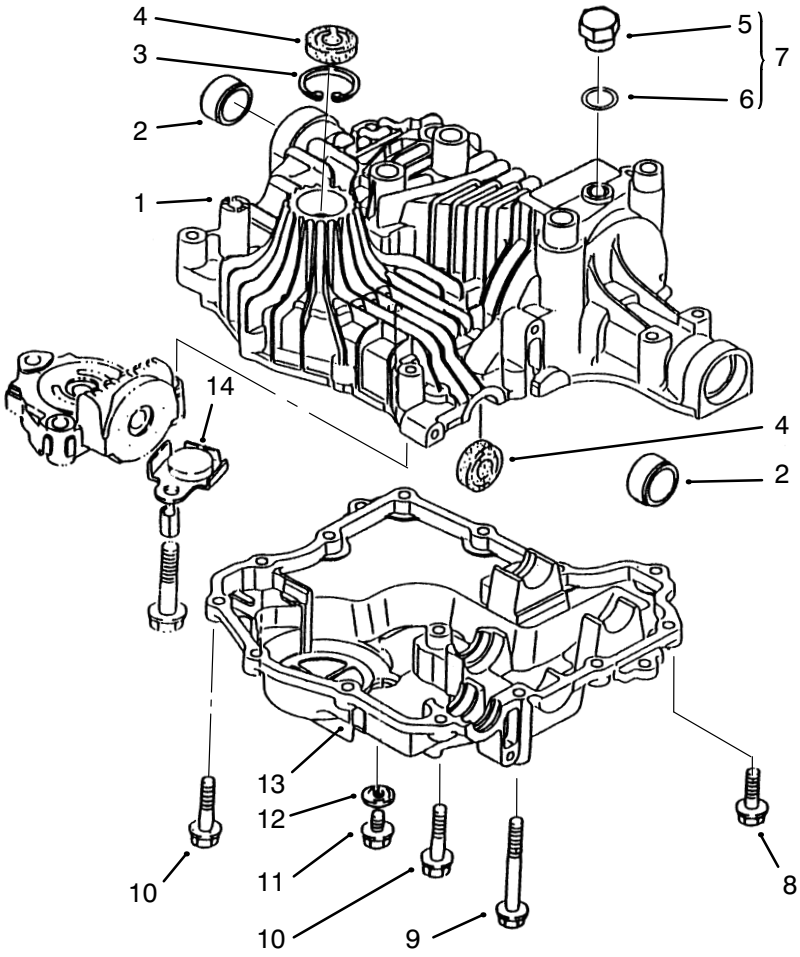


Sheet No.: 111
C–

Exhaust

Ref. No.	Part No.	Qty.	Description
1	M–0829033	2	Stud M8x1.25x20
2	12 455 06	1	Strap–Lifting
3	12 041 03	1	Gasket–Exhaust Manifold
4	M–0645025	1	Screw–Valve Cover

Ref. No.	Part No.	Qty.	Description



Sheet No.: 401

c–1860

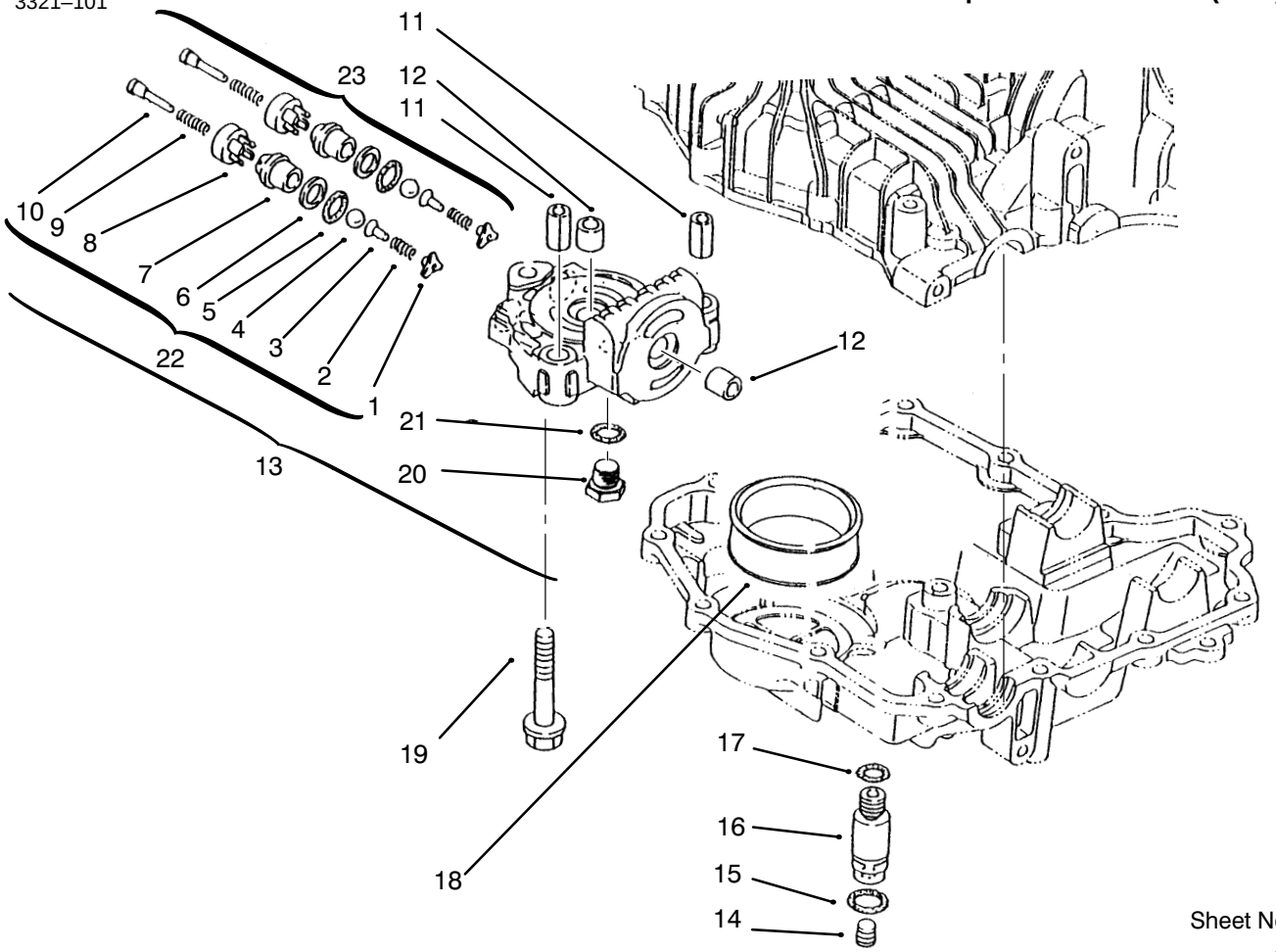
Transaxle Case

Ref. No.	Part No.	Qty.	Description
1	94–4206	1	Upper Case ASM INC 2–6
†2		2	Bushing
†3	93–0360	1	Ring
†4	93–0361	2	Seal
†5		1	Plug
†6		1	Packing
7	93–0356	1	Plug/Packing INC 5–6
8	93–0363	11	Screw–TAP
9	93–0354	1	Bolt
10	93–0364	2	Screw–TAP
11	93–0362	1	Bolt
12	93–0359	1	Washer–Seal
13	94–4207	1	Case–Lower
14	93–0355	1	Magnet

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly

3321–101



Sheet No.: 402

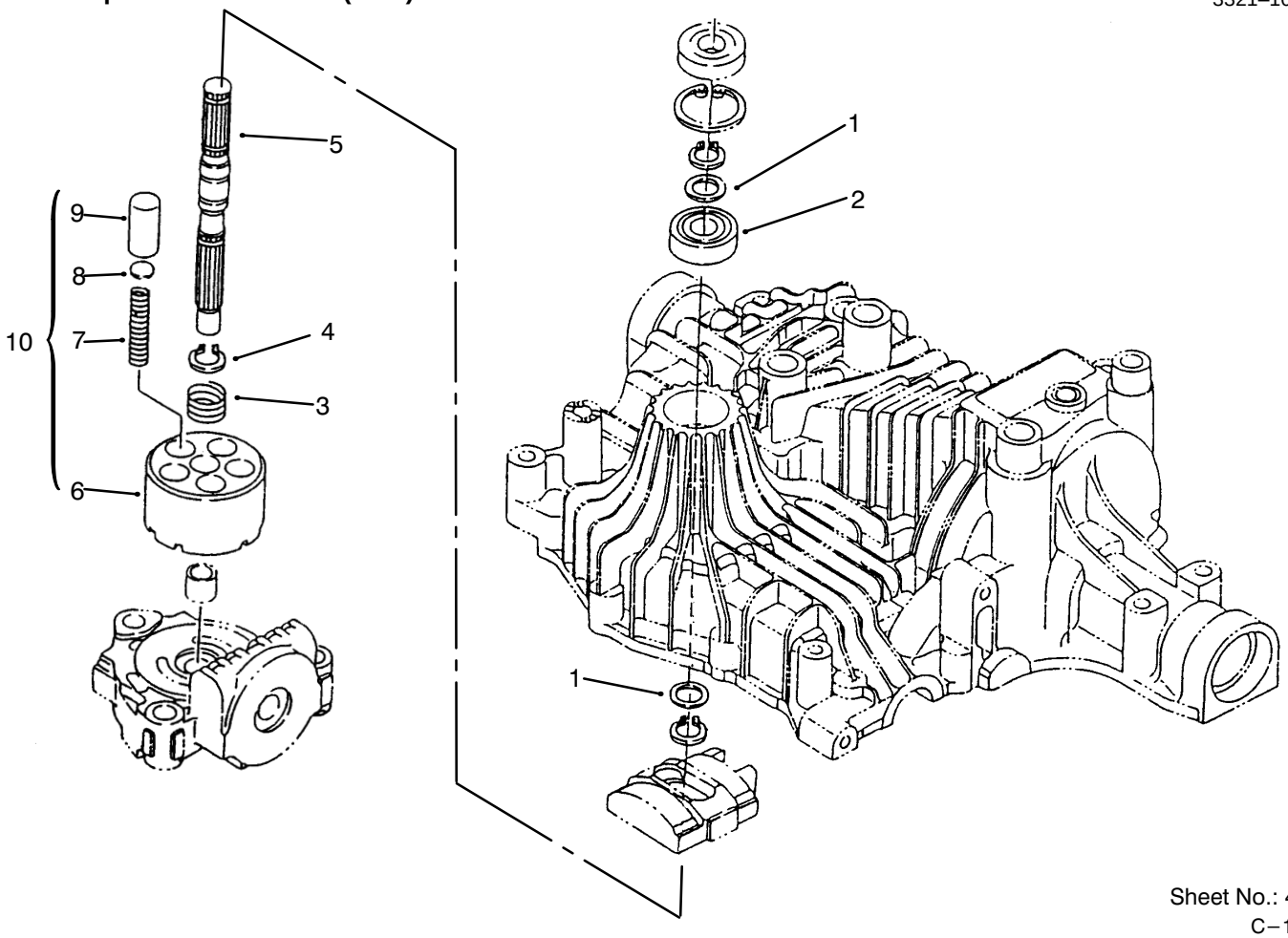
c–1877

Center Case

Ref. No.	Part No.	Qty.	Description
†1	93–0461	2	Holder–Bypass
†2		2	Spring
†3		2	Holder–Ball
†4		1	Ball
†5	93–0465	2	Packing
†6	93–0466	2	Ring–Back Up
†7		1	Sleeve A1
†8		2	Valve B
†9		2	Spring
†10		2	Pin–Push
†11	93–0471	2	Pin–Knock
†12	93–0472	2	Bushing
13	93–0484	1	Case INC 11–12 & 20–23
14	93–0474	1	Plug
15	93–0475	1	Packing
16	93–0476	1	Connector
17	93–0481	1	Packing
18	93–0478	1	Filter
19	93–0479	3	Bolt
20	93–0480	1	Plug
21	93–0481	1	Packing
22	93–0482	1	Valve ASM A1 INC 1–10
23	93–0483	1	Valve ASM A2

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly



Sheet No.: 403
C–1861

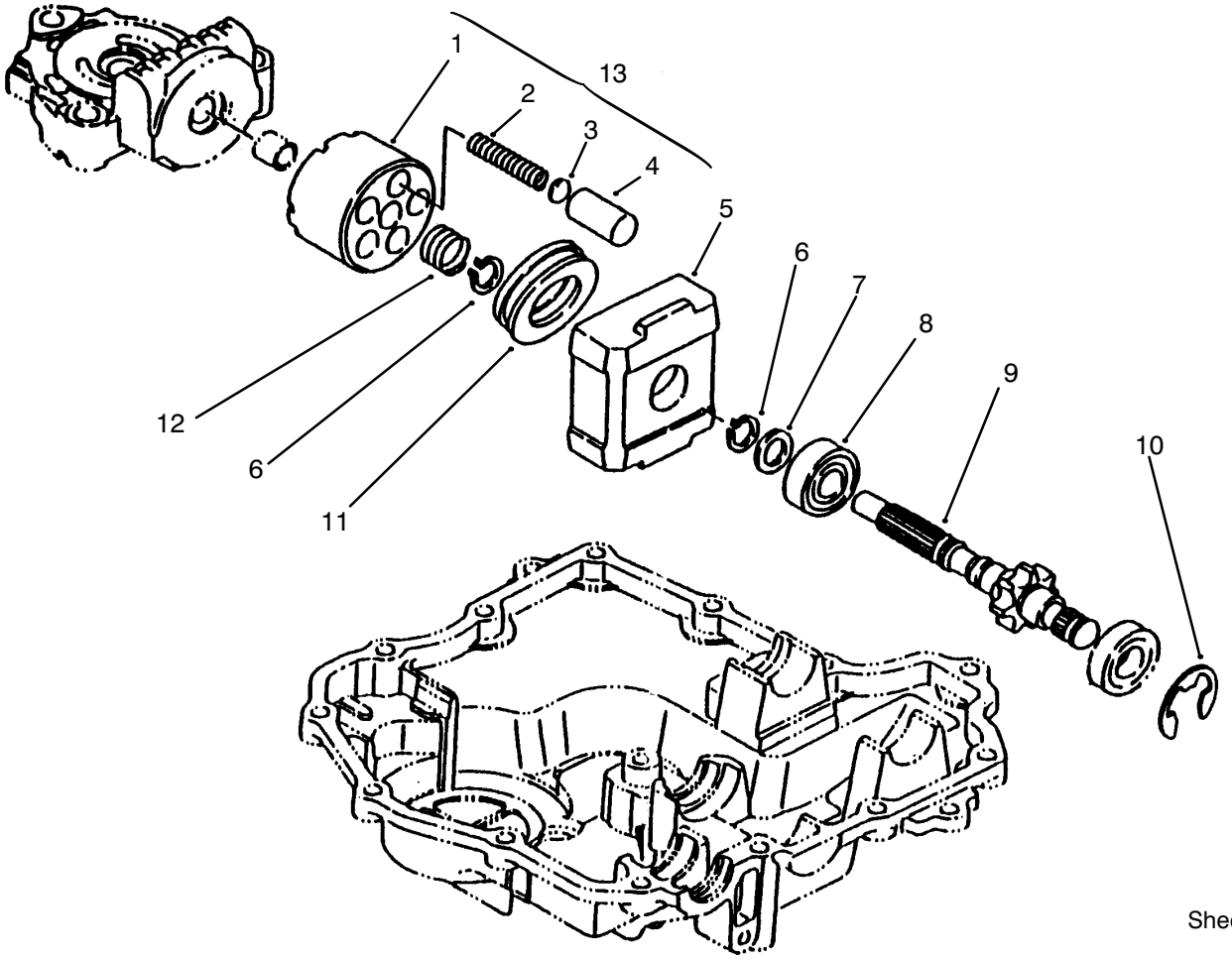
Pump Shaft

Ref. No.	Part No.	Qty.	Description
1	93–0371	2	Washer
2	93–0374	1	Bearing–Ball
3	93–0370	1	Spring
4	93–0373	3	Ring–Snap
5	93–0372	1	Shaft–Pump
†6		1	Block–Cylinder
†7		5	Spring
†8		5	Washer
†9		5	Piston
10	93–0365	1	Cylinder ASM INC 6–9

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly

3321–101



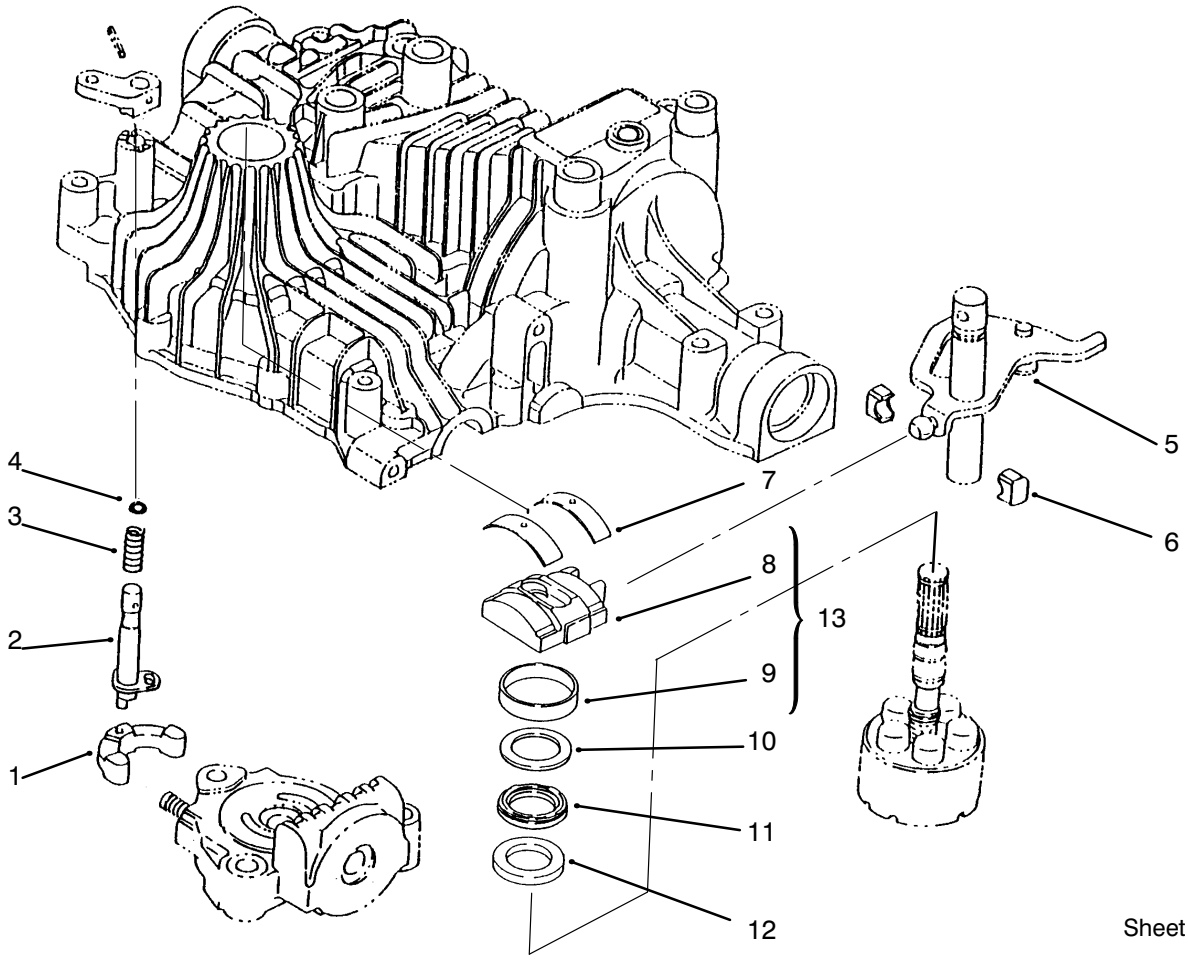
Sheet No.: 404

c–1862

Motor Shaft

Ref. No.	Part No.	Qty.	Description
1		1	Block–Cylinder
2		1	Spring
3		5	Washer
4		5	Piston
5	93–0375	1	Housing
6	93–0373	2	Ring–Snap
7	93–0371	1	Washer
8	93–0374	1	Bearing–Ball
9	93–0386	1	Shaft–Motor
10	93–0387	1	E Ring
11	93–0376	1	Bearing–Thrust
12		1	Spring
13	93–0365	1	Cylinder ASM INC 1–4

Ref. No.	Part No.	Qty.	Description



Sheet No.: 405

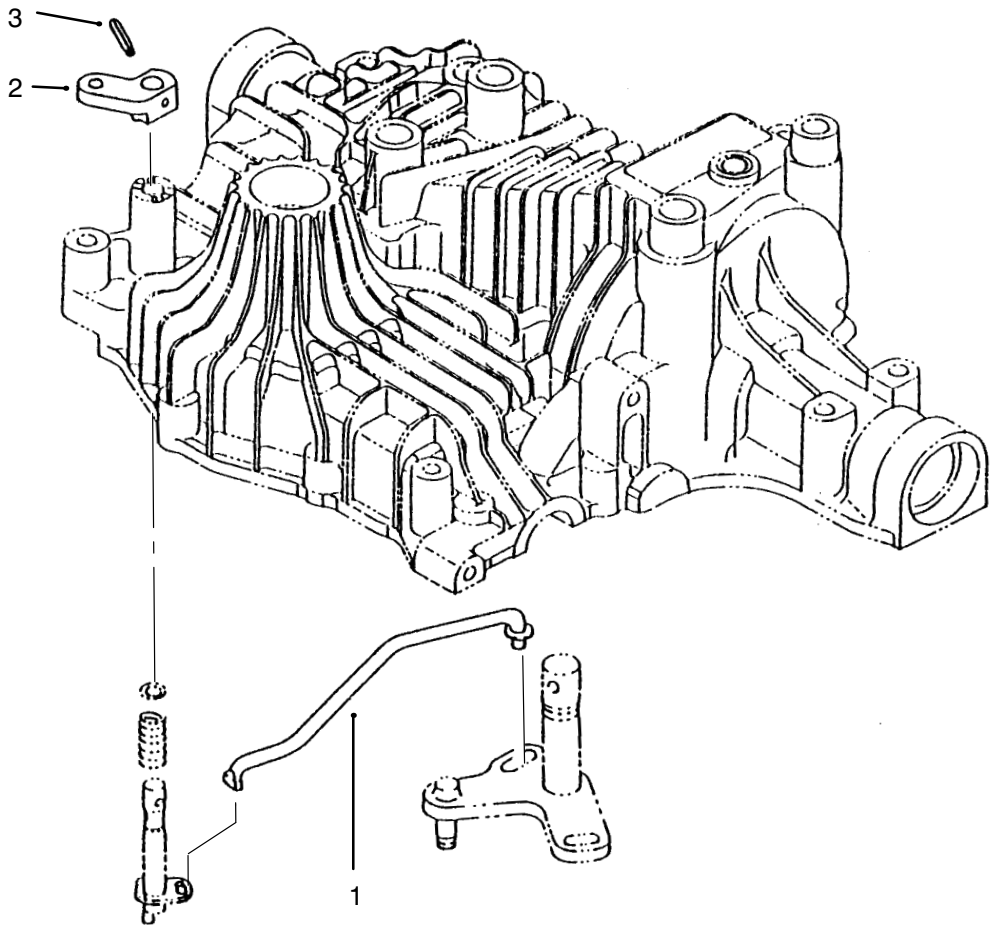
c–1863

Range Shift

Ref. No.	Part No.	Qty.	Description
1	93–0395	1	Arm
2	93–0397	1	Shaft–Bypass
3	93–0396	1	Spring
4	93–0400	1	Packing
5	93–0398	1	Block Set INC 6
†6		1	Block–Shift
7	93–0388	2	Thrust Metal
†8		1	Plate–Swash
†9		1	Bushing–Swashplate
10	93–0394	1	Plate–Thrust
11	93–0392	1	Bearing
12	93–0393	1	Plate–Thrust
13	93–0389	1	Swash Plate INC 8–9

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly



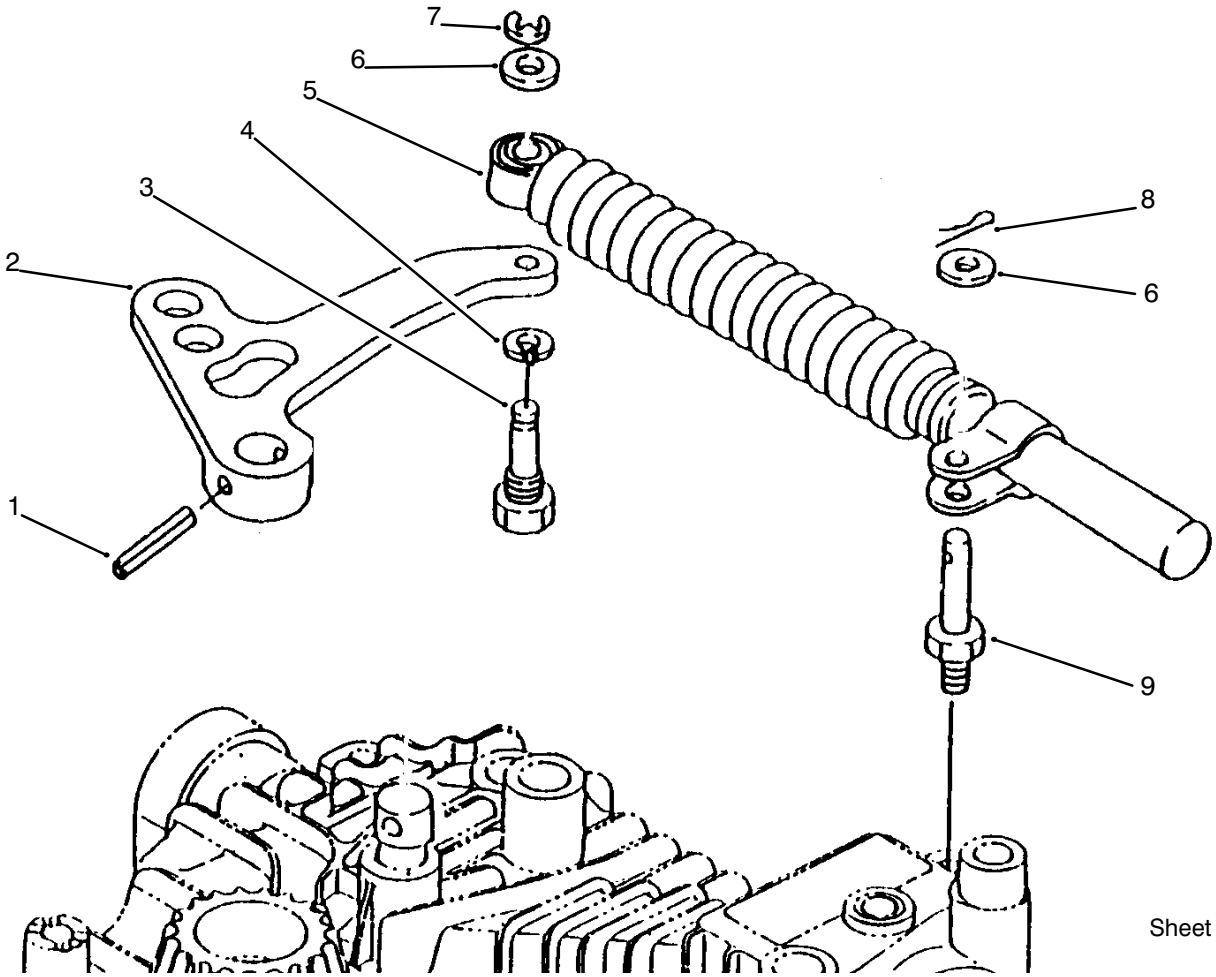
Sheet No.: 406

c–1864

Bypass Return

Ref. No.	Part No.	Qty.	Description
1	93–0401	1	Rod–Bypass
2	93–0402	1	Arm–Valve Release
3	93–0403	1	Pin–Roll

Ref. No.	Part No.	Qty.	Description



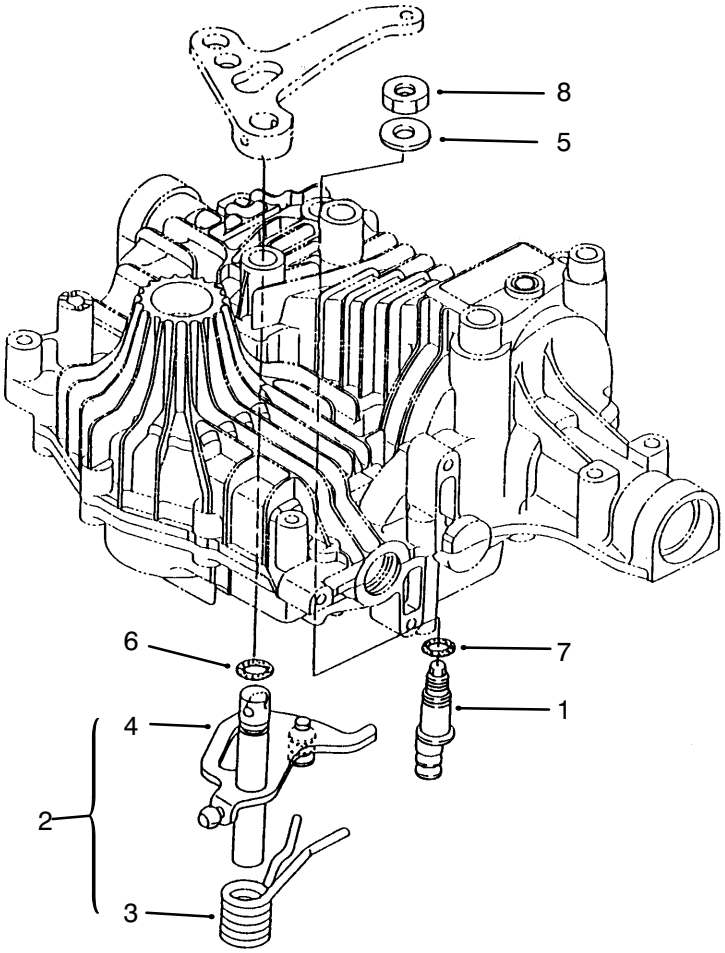
Sheet No.: 407

C–1865

Lever Damper

Ref. No.	Part No.	Qty.	Description
1	93–0411	1	Pin–Roll
2	93–0404	1	Arm
3	93–0407	1	Bolt
4	93–0409	1	Washer
5	93–0405	1	Shock Absorber
6	93–0408	2	Washer
7	93–0410	1	Ring
8	93–0412	1	Pin–Cotter
9	93–0406	1	Stud

Ref. No.	Part No.	Qty.	Description



Sheet No.: 408

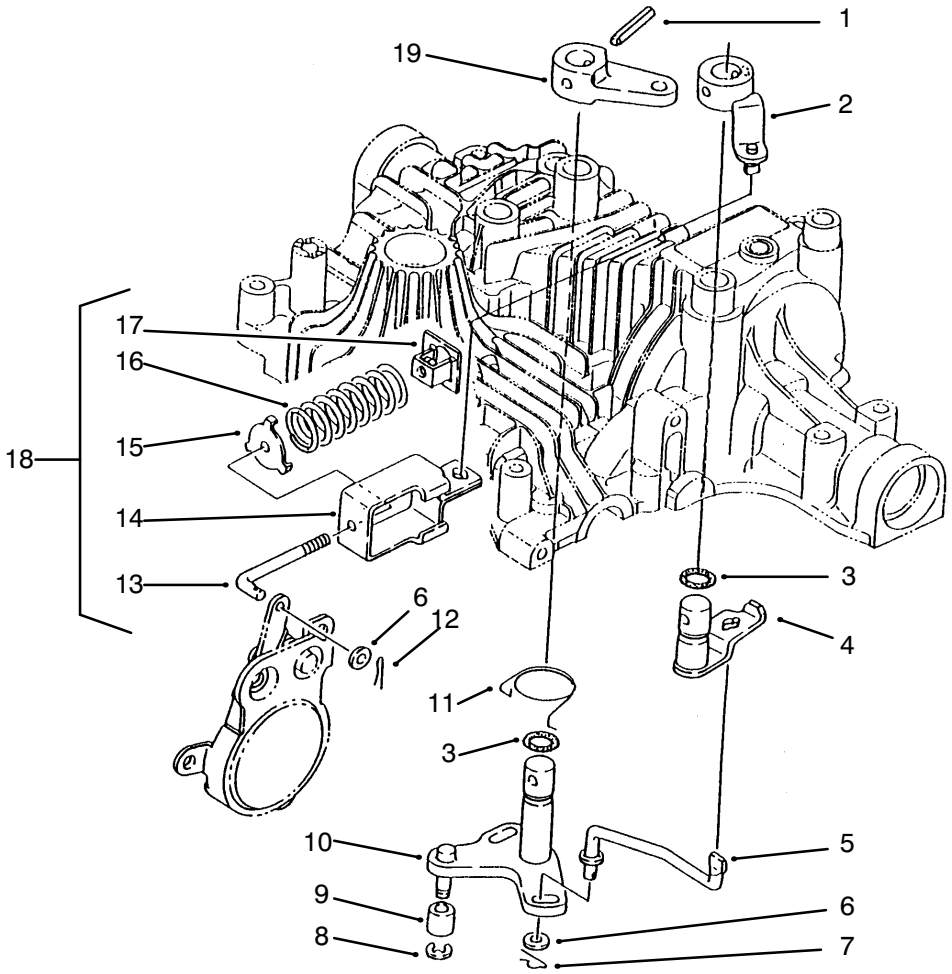
C–1866

N-Centering

Ref. No.	Part No.	Qty.	Description
1	93–0413	1	Fulcrum
2	93–0414	1	Shaft ASM INC 3–4
†3		1	Spring
†4		1	Shaft–Control
5	93–0417	1	Washer
6	93–0418	1	Packing
7	93–0419	1	Packing
8	93–0420	1	Nut

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly



Sheet No.: 409

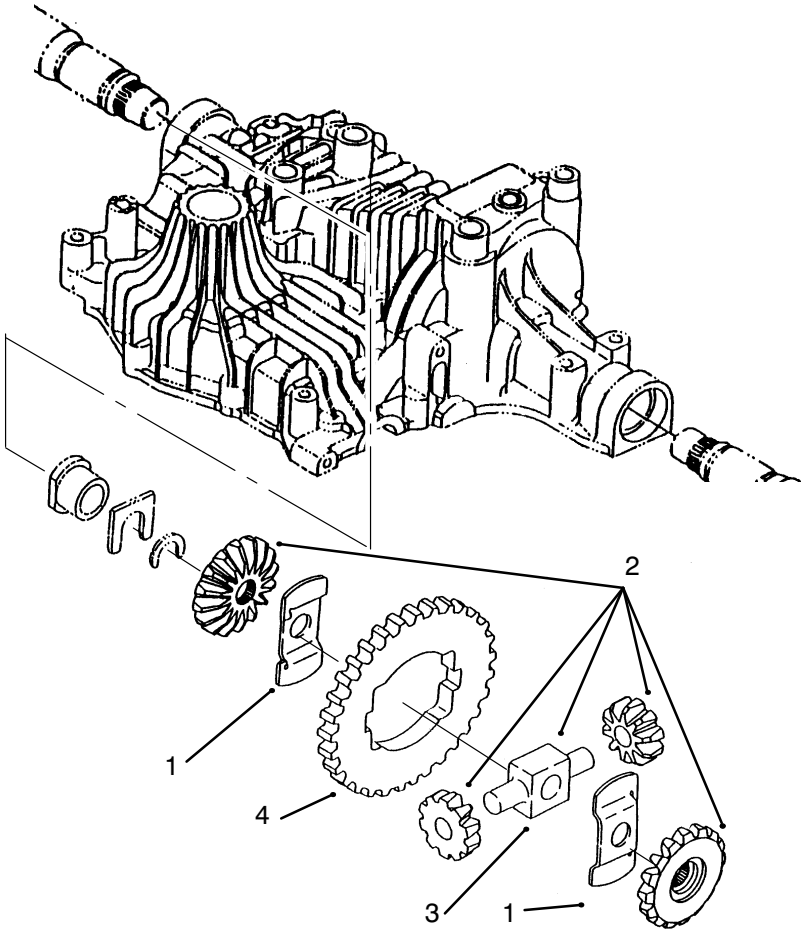
C–1867

Brake Interlock

Ref. No.	Part No.	Qty.	Description
1	93–0411	2	Pin–Roll
2	93–0433	1	Arm–Brake B
3	93–0418	2	Packing
4	93–0432	1	Arm–Brake A
5	93–0431	1	Rod–Brake
6	93–0435	2	Washer
7	93–0434	1	Pin–Snap
8	93–0410	1	Ring
9	93–0421	1	Bushing
10	93–0430	1	Shaft–Brake
11	93–0422	1	Return–Brake
12	93–0412	1	Pin–Cotter
†13	93–0428	1	Rod–Adjuster
†14	93–0426	1	Holder–Spring
†15	93–0425	1	Guide–Spring
†16	93–0427	1	Spring
†17	93–0424	1	Adjuster
18	93–0423	1	Rod ASM INC 13–17
19	93–0429	1	Arm–Brake

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly



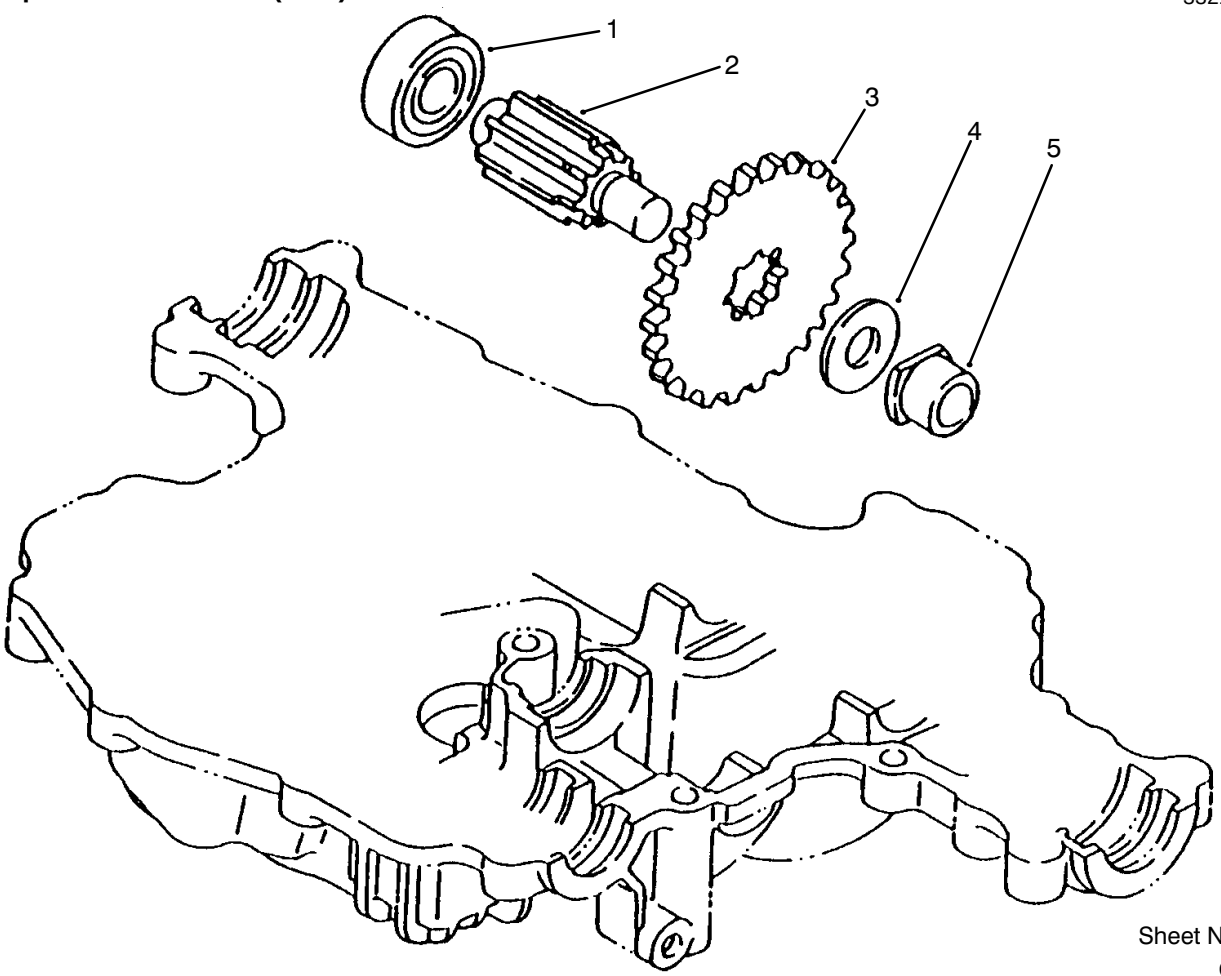
Sheet No.: 410

c–1868

Differential Gear

Ref. No.	Part No.	Qty.	Description
1	93–0444	2	Washer–Thrust
2	95–7871	1	Kit–Gear ASM (Used before Ser. Nos. 15132)
2	95–7872	1	Kit–Gear ASM (Used after Ser. Nos. 15131 & UP)
3	93–0443	1	Shaft–Pinion
4	93–0445	1	Gear–Final

Ref. No.	Part No.	Qty.	Description



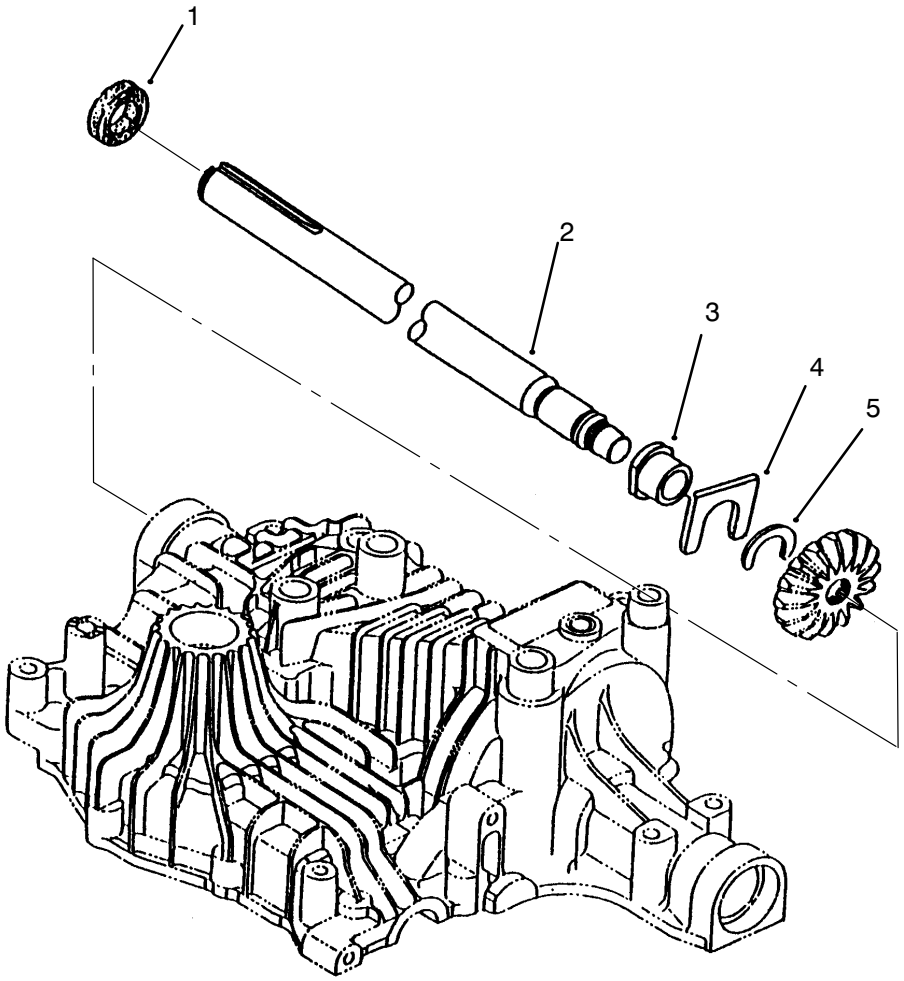
Sheet No.: 411

C–1869

Final Pinion

Ref. No.	Part No.	Qty.	Description
1	93–0446	1	Bearing
2	93–0447	1	Shaft–Final Pinion
3	93–0448	1	Gear–Final Shaft
4	93–0449	1	Washer
5	93–0450	1	Bushing

Ref. No.	Part No.	Qty.	Description



Sheet No.: 412

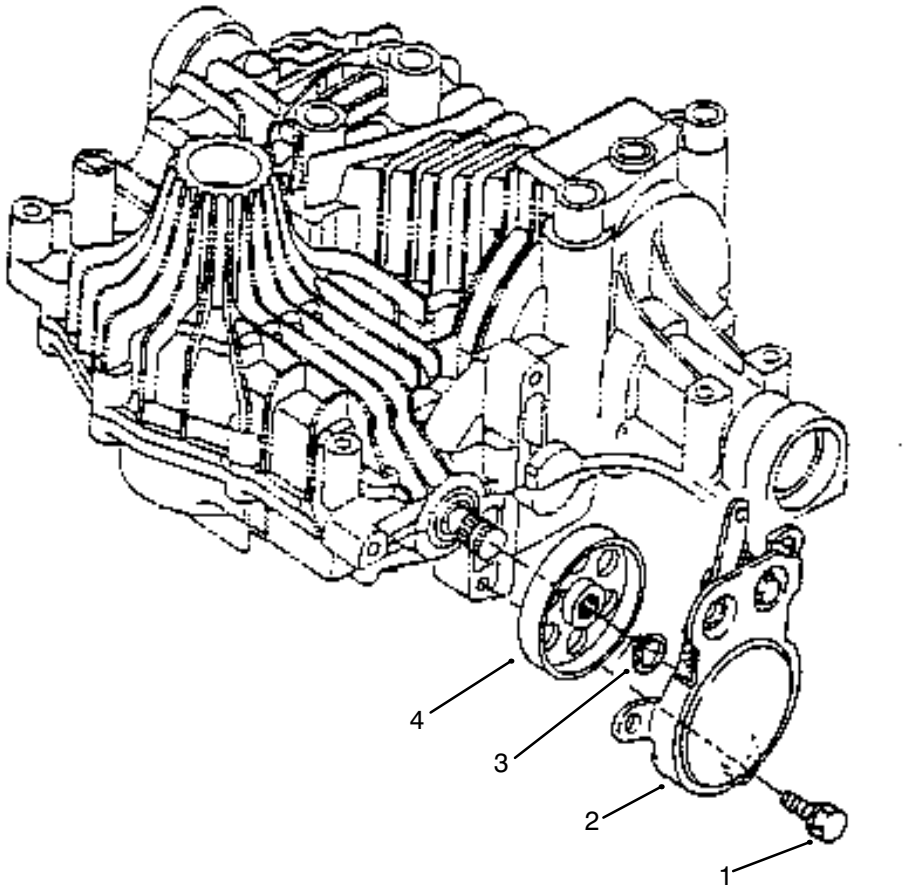
C–1870

Axle Shaft

Ref. No.	Part No.	Qty.	Description
1	93–0451	2	Seal
2	93–0452	1	Shaft–Axle Right
3	93–0454	2	Bushing
4	93–0455	2	Washer–Thrust
5	93–0456	2	Ring
*	93–0453	1	Shaft–Axle Left

Ref. No.	Part No.	Qty.	Description

* Not illustrated



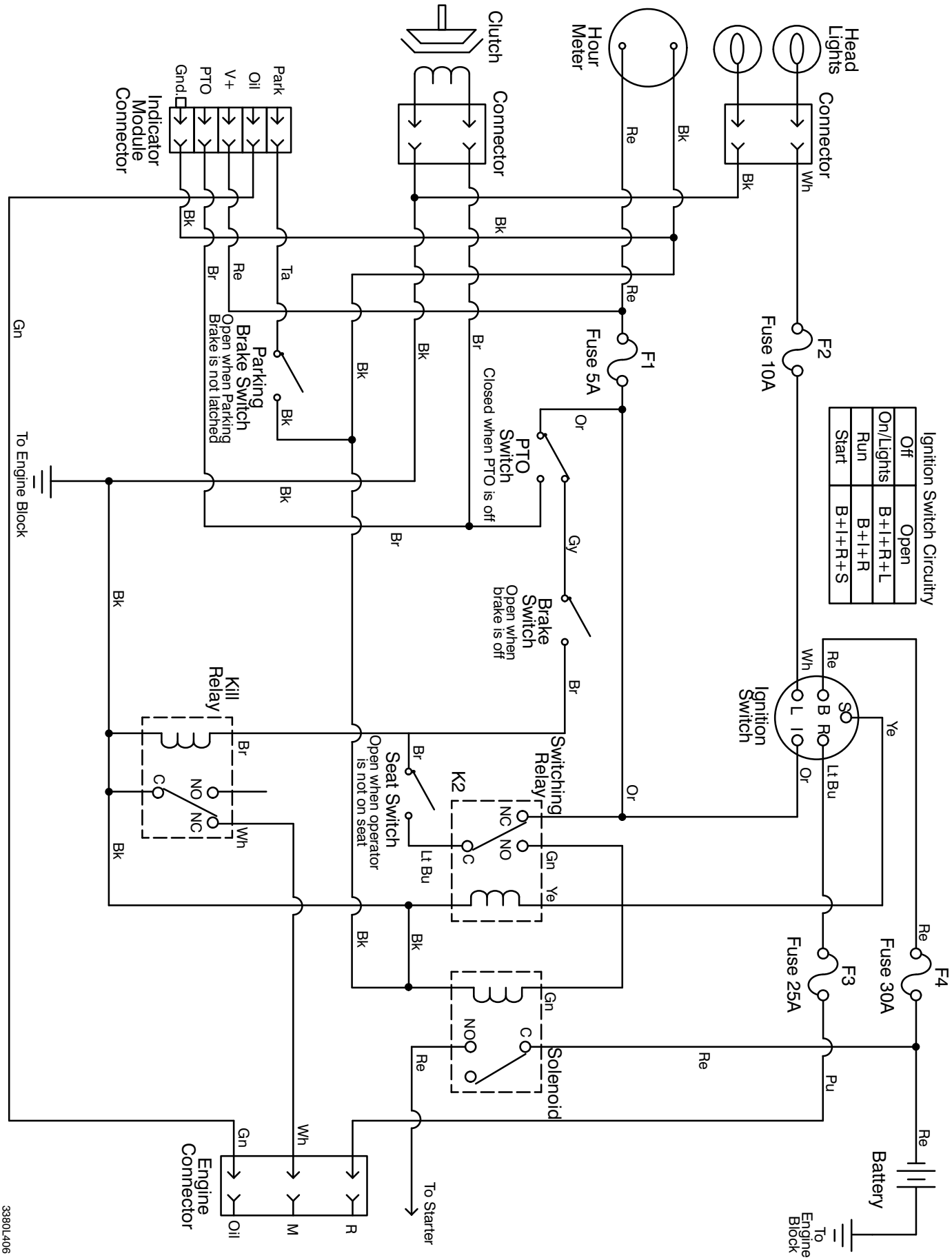
Sheet No.: 413
C–1871

Brake

Ref. No.	Part No.	Qty.	Description
1	93–0457	3	Bolt w/Washer
2	93–0458	1	Band–Brake Interlock
3	93–0373	1	Ring–Snap
4	93–0460	1	Drum–Brake

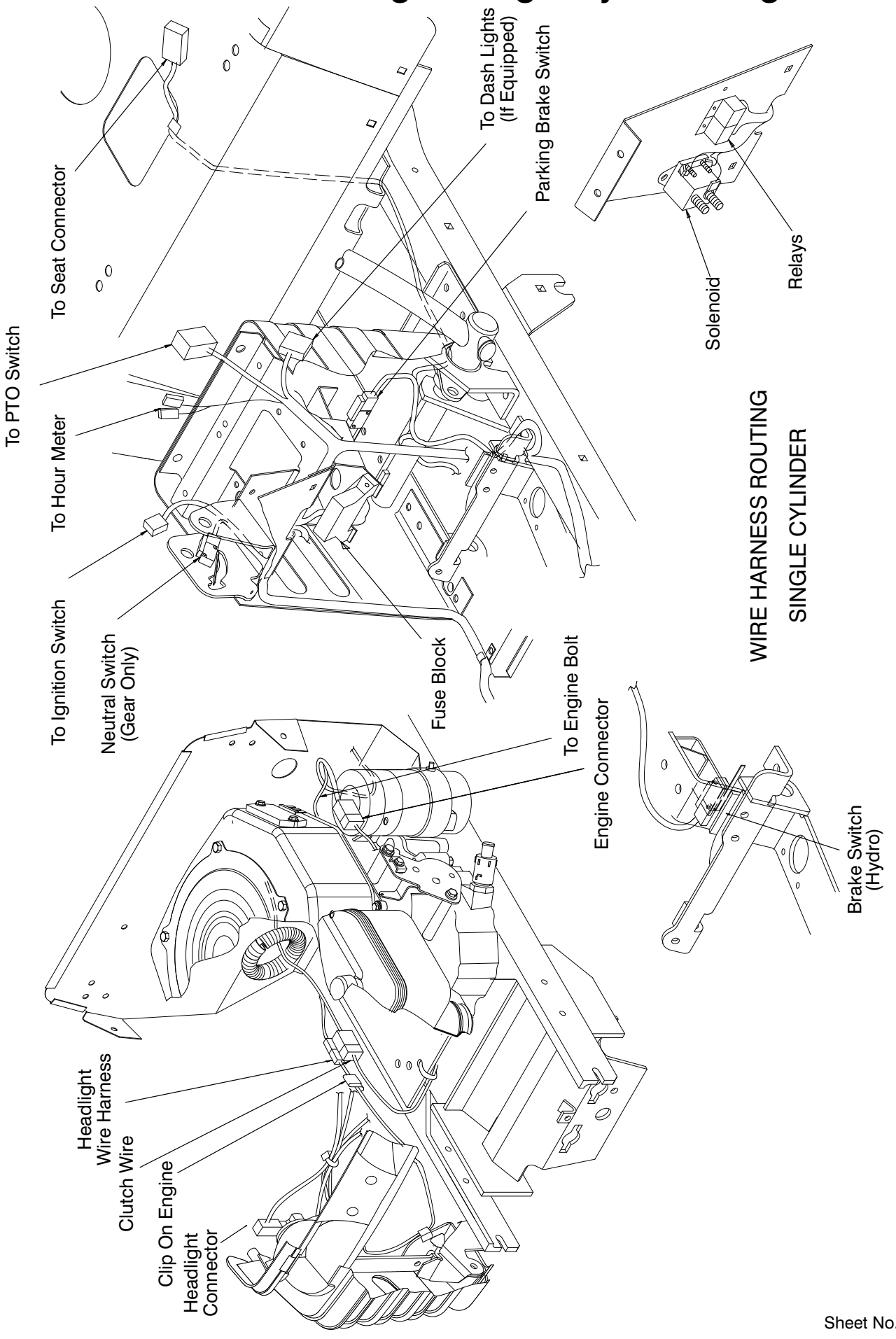
Ref. No.	Part No.	Qty.	Description

Electric Schematic Single Cylinder Hydro Drive



C–1944

Wire Harness Routing — Single Cylinder Engine



Sheet No.: 28