FORM NO. 3321–103

TORO®

Lawn & Garden Tractor

Model No. 72102 — 8900001 & Up

preliminary

Parts Catalog

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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Note:

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
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

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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
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.

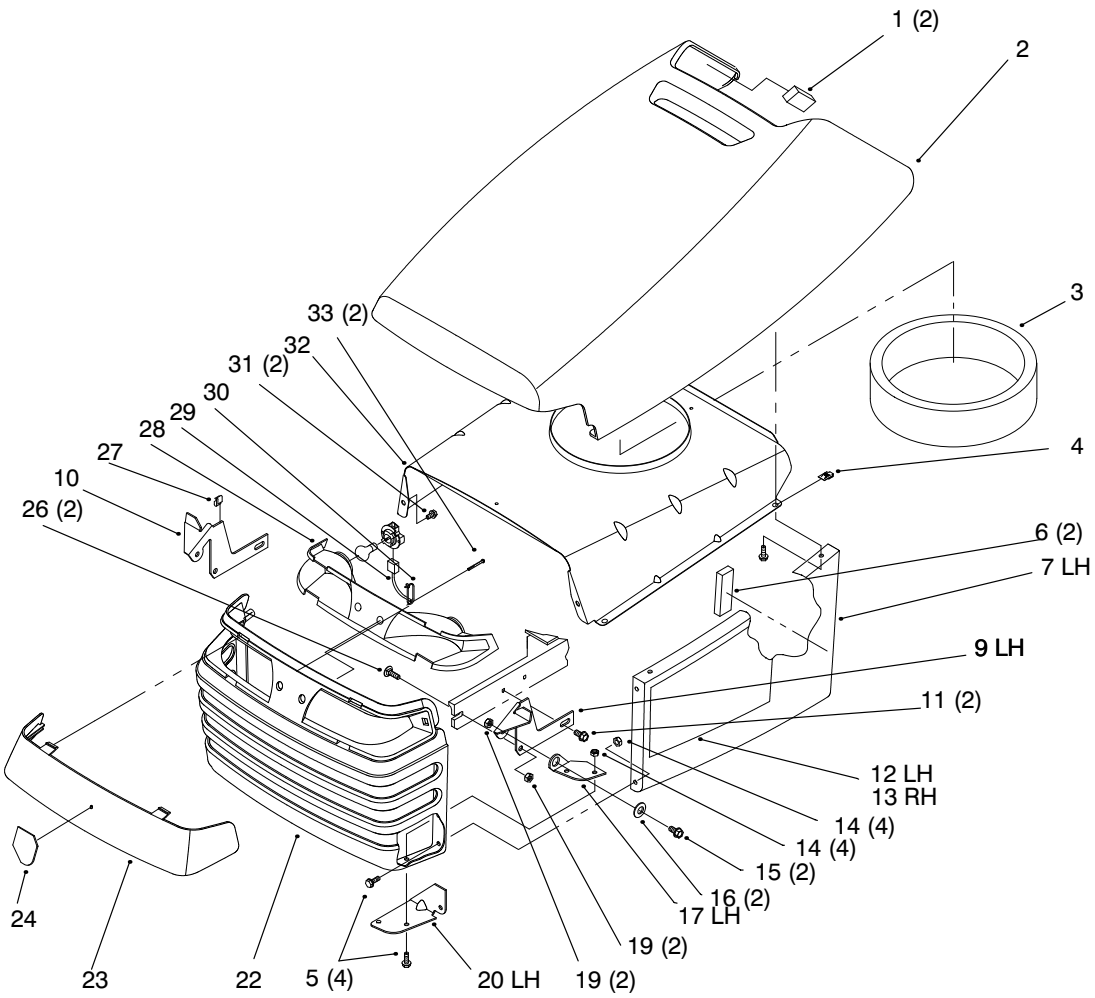
Reference numbers of this type appear in part lists and as callouts in illustrations.

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.

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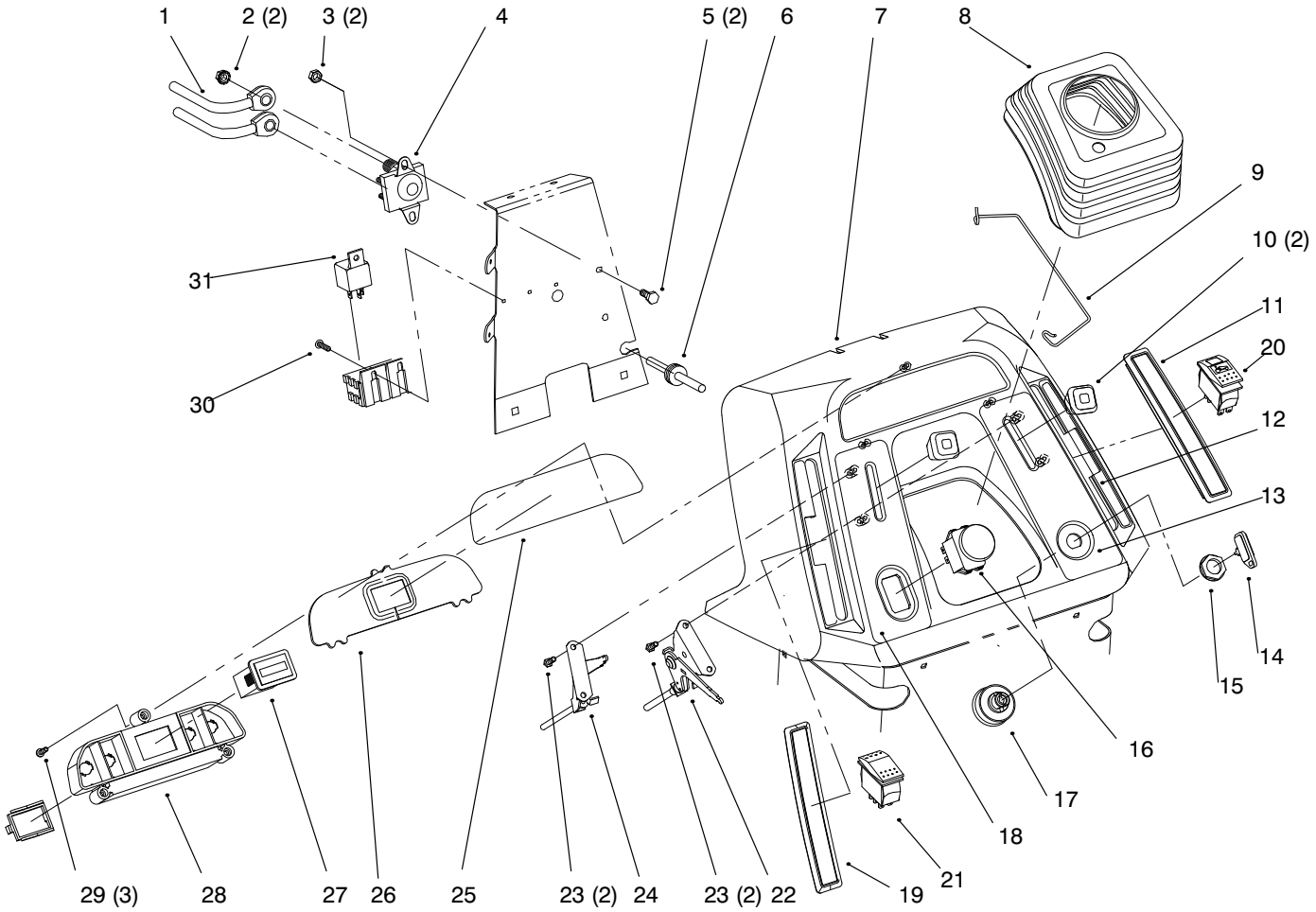
Hood and Grill

Ref. No.	Part No.	Qty.	Description
1	94–1980	2	Foam–Hood
2	93–0490	1	Hood
3	92–7076	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

Parts Identified in illustration but not in parts list are not used on this Model

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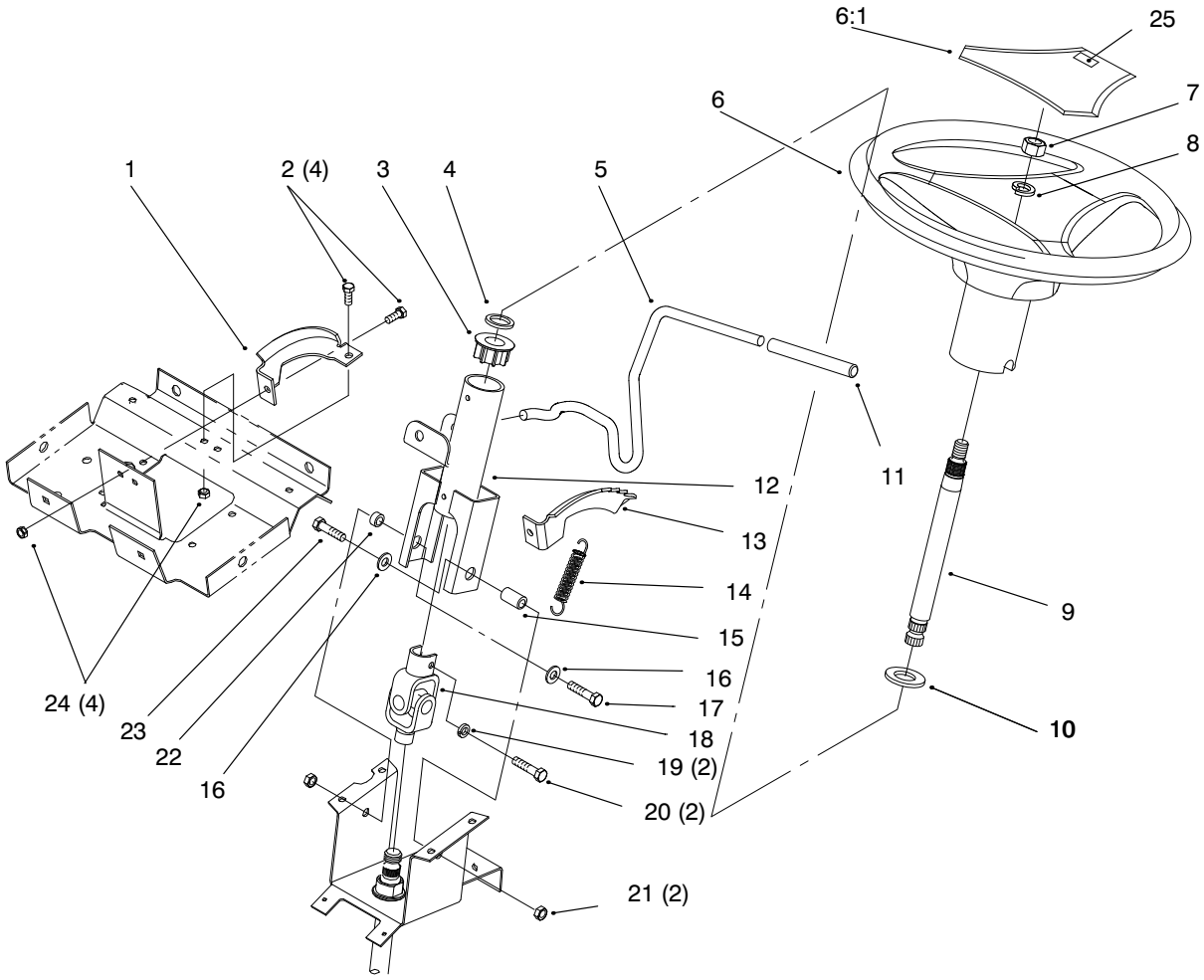


Dash

Ref. No.	Part No.	Qty.	Description
7	94–1894	1	Dash–Hydro
8	92–6680	1	Boot–Steering
9	94–2966	1	Clip–Boot
10	66–0120	2	Knob
11	93–0516	1	Cover–Cruise
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	94–1710	1	Cover–Lift
20	93–0527	1	Switch–Cruise
21	94–1742	1	Switch–Lift
22	92–6784	1	Control–Throttle
23	32144–32	4	Screw–Plastic
24	92–6783	1	Control–Choke
25	93–7308	1	Decal–Dash Lens
26	92–6705	1	Lens–Dash
27	94–4208	1	Hourmeter
28	93–8452	1	ASM–Housing
29	94–6961	3	Screw
30	32144–8	2	Screw–PPH
31	116397	4	Relay
	94–1714	1	Housing–Light

Ref. No.	Part No.	Qty.	Description

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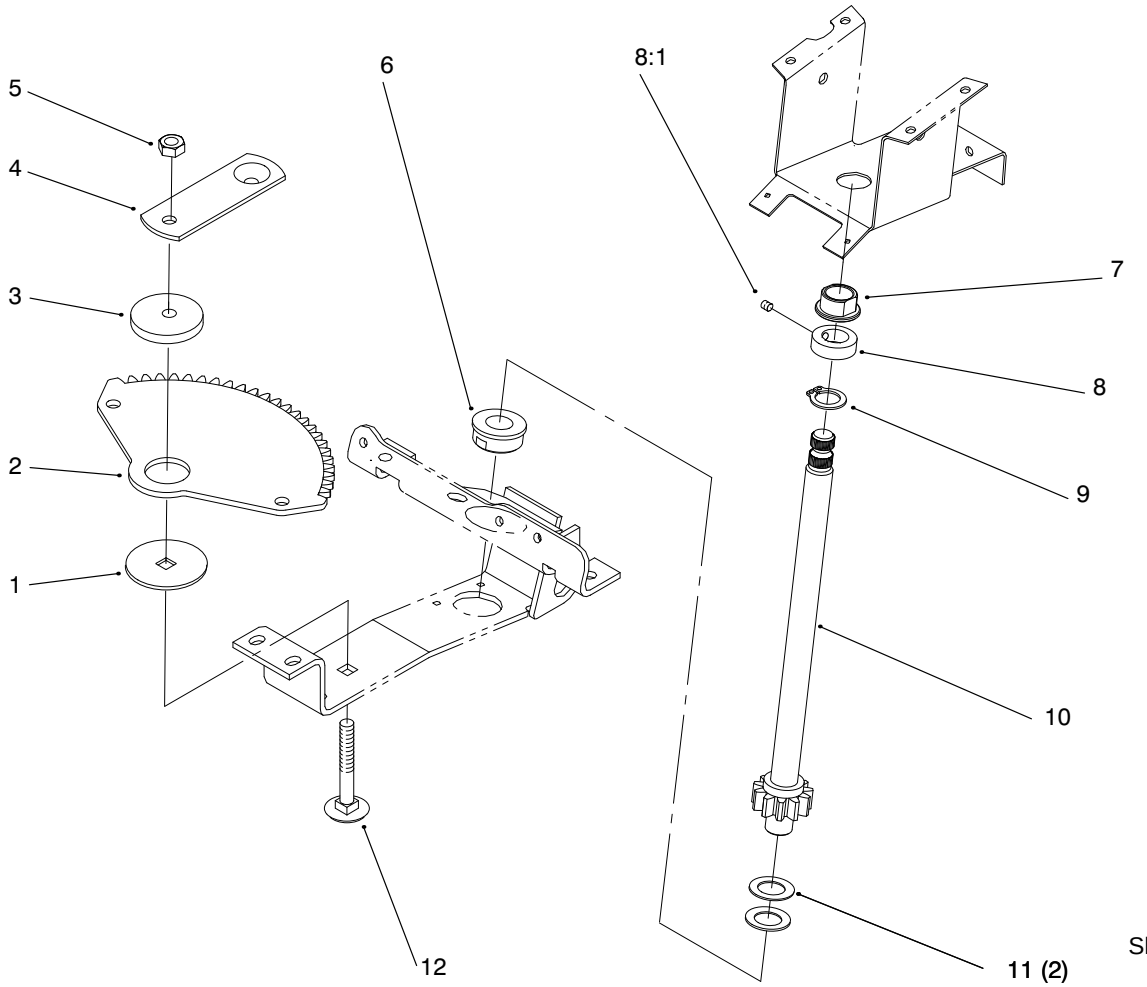


Steering Wheel and Tilt

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	98–1472	1	Wheel–Steering
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

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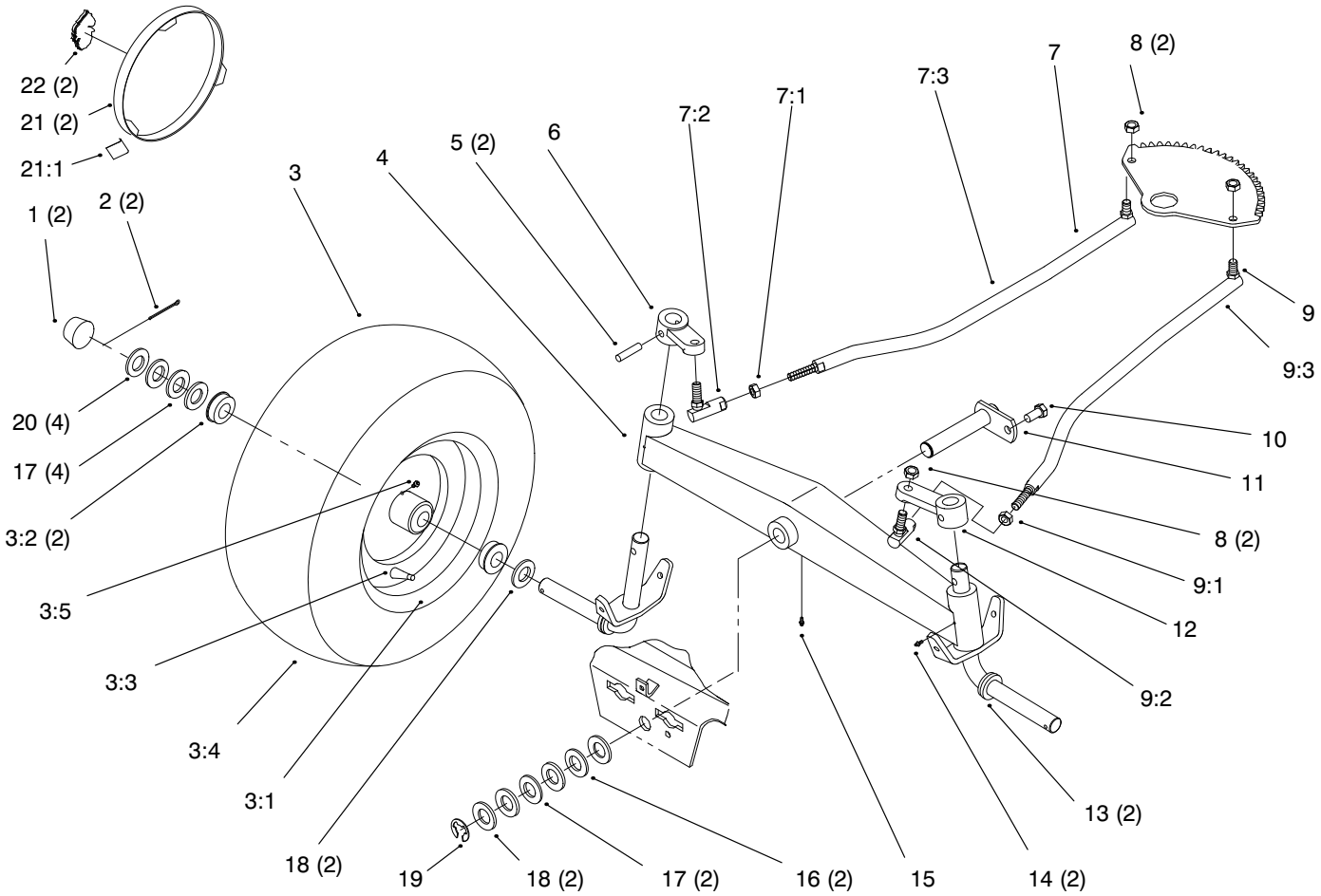
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Lower Steering

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

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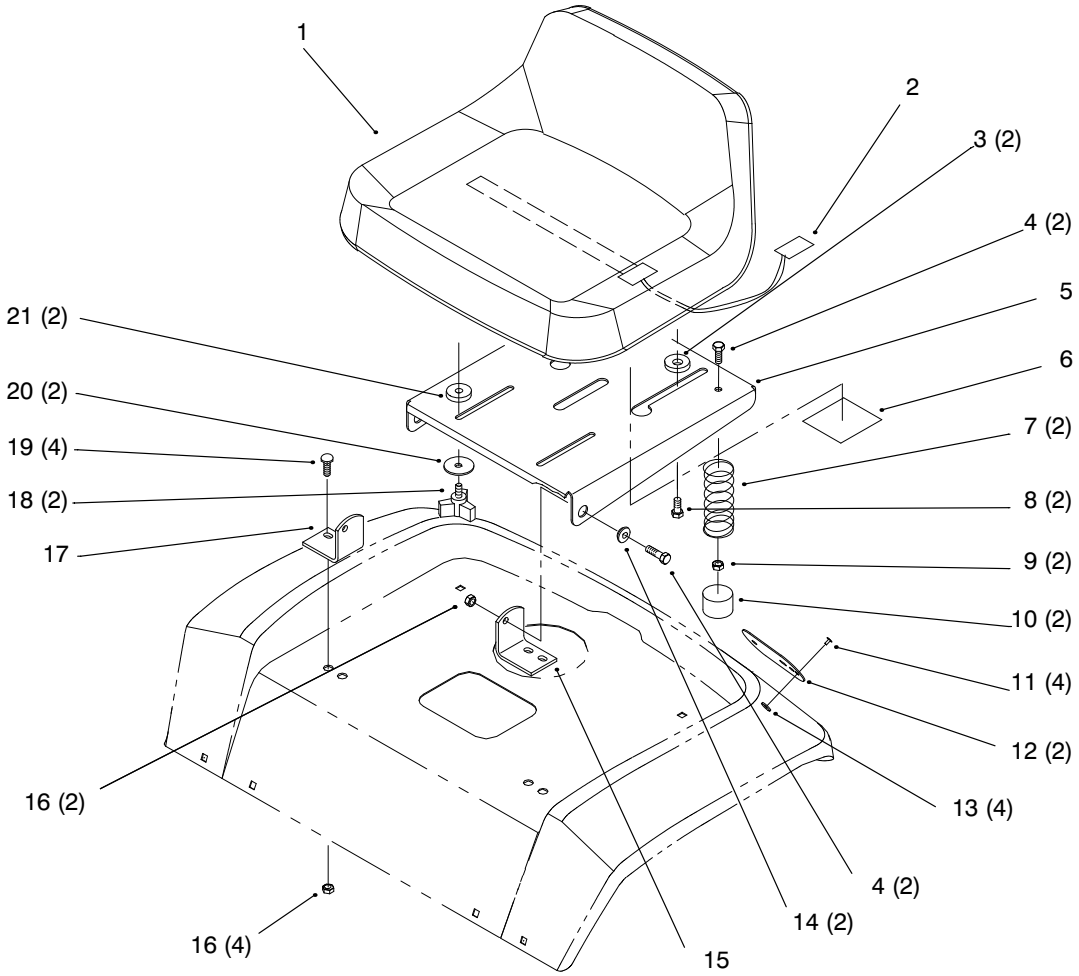
Front Axle

Ref. No.	Part No.	Qty.	Description
1	61–9780	2	Hubcap
2	3272–17	2	Pin–Cotter
☆3		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
21	94–3717	2	ASM–Hubcap
21	94–3730	2	Hubcap–8”
22	94–3736	2	Horsehead Logo

☆ Not serviced

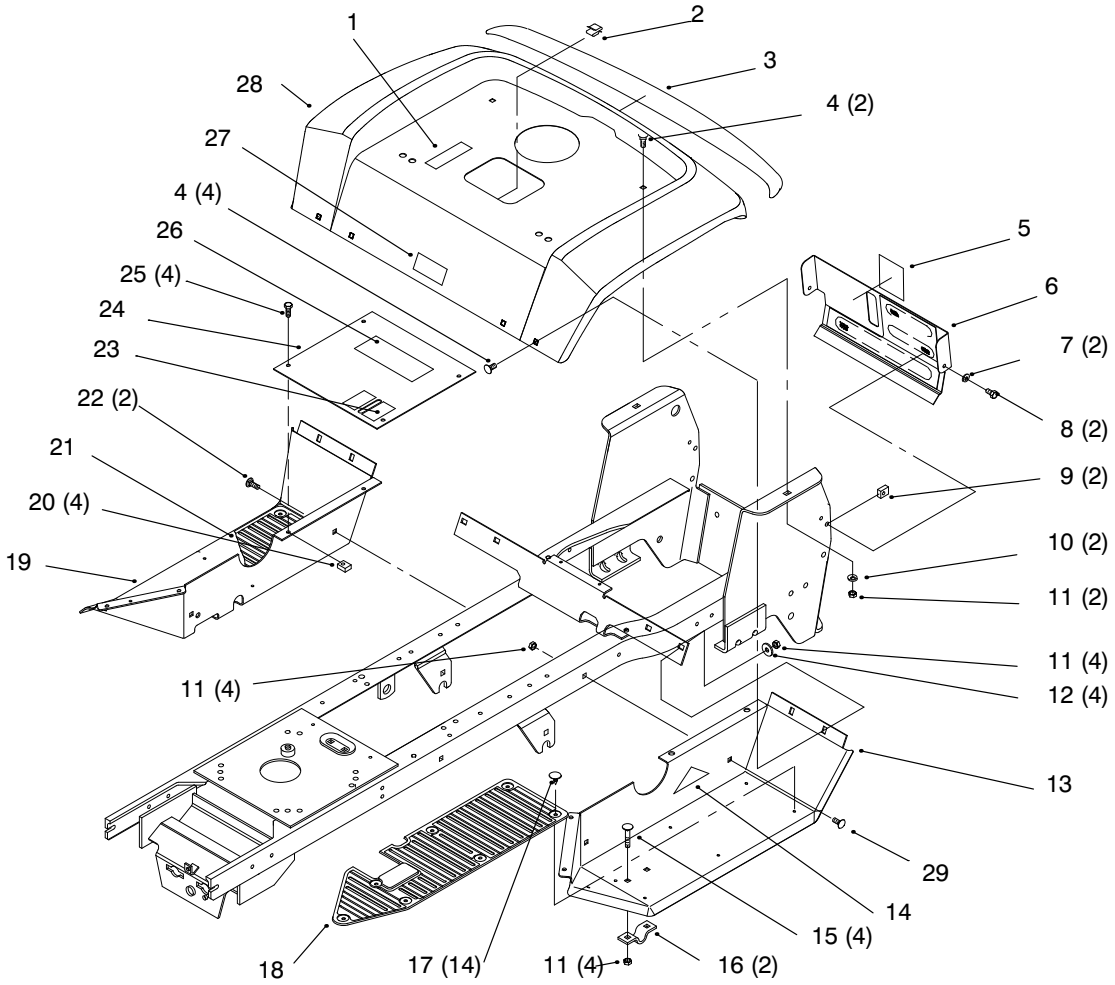
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Seat

Ref. No.	Part No.	Qty.	Description
1	92–6511	1	Seat
1:1	94–4909	1	Trim–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–Flt
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

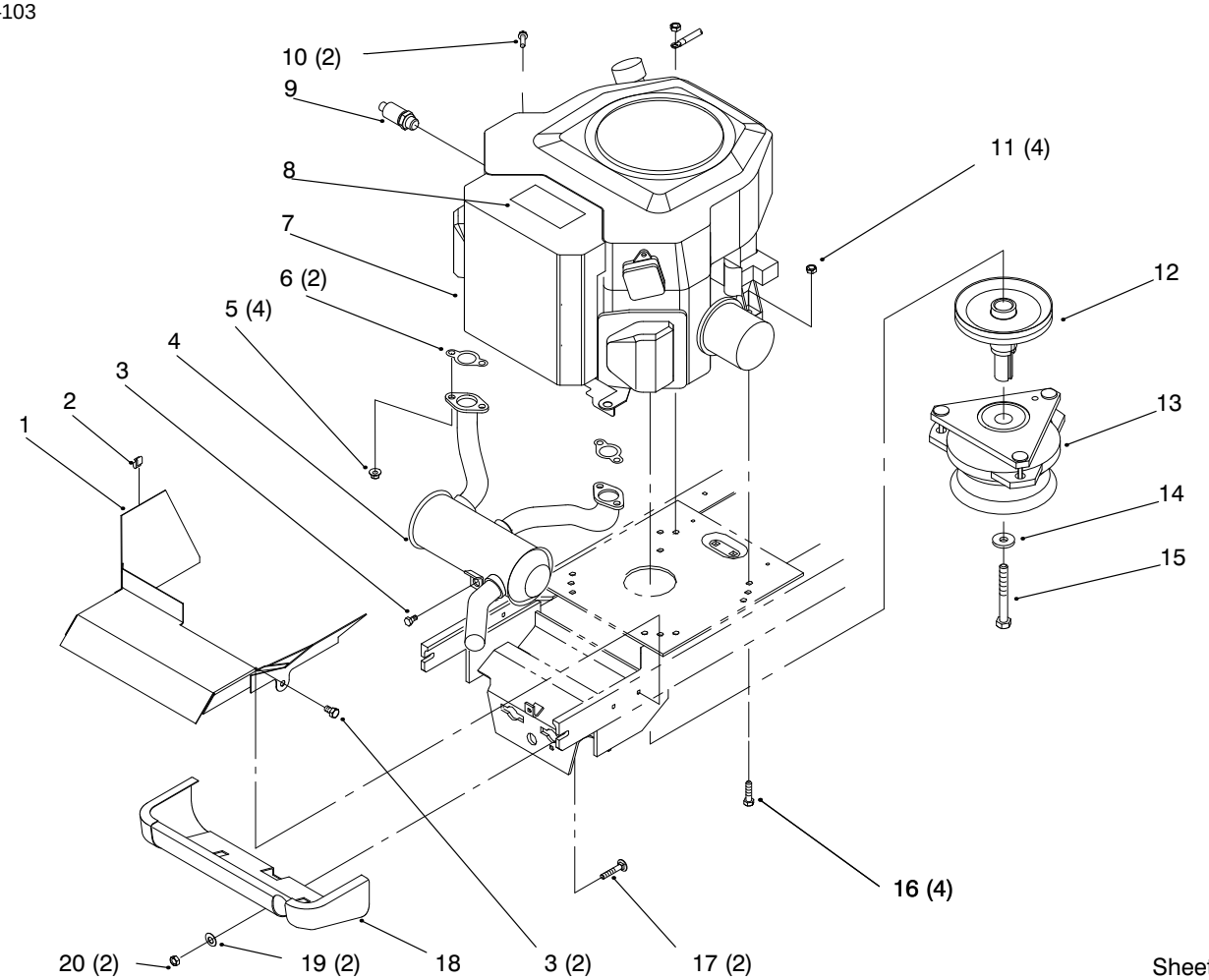


Fender and Footrest

Ref. No.	Part No.	Qty.	Description
2	702366	1	Clip–Wire Retainer
3	92–6730	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	94–1711–01	1	Footrest–LH
15	3230–1	4	Bolt–CARR
16	106288	2	Clamp
17	3290–479	14	Fastener–Panel
18	92–6688	1	Mat–Foot LH
19	92–6747–01	1	Footrest–RH
20	107069	4	Nut–Speed
21	92–6687	1	Mat–Foot RH
22	3230–23	3	Bolt–CARR
23	92–6725	1	Decal–HOC
24	93–0489–01	1	Plate–Footrest w/Decal
25	92–7020	4	Screw–TTH
26	92–8946	1	Decal–Danger
27	76–1340	1	Decal–USA

Ref. No.	Part No.	Qty.	Description
28	92–6795–01	1	Fender
29	3230–23	1	Bolt–CARR

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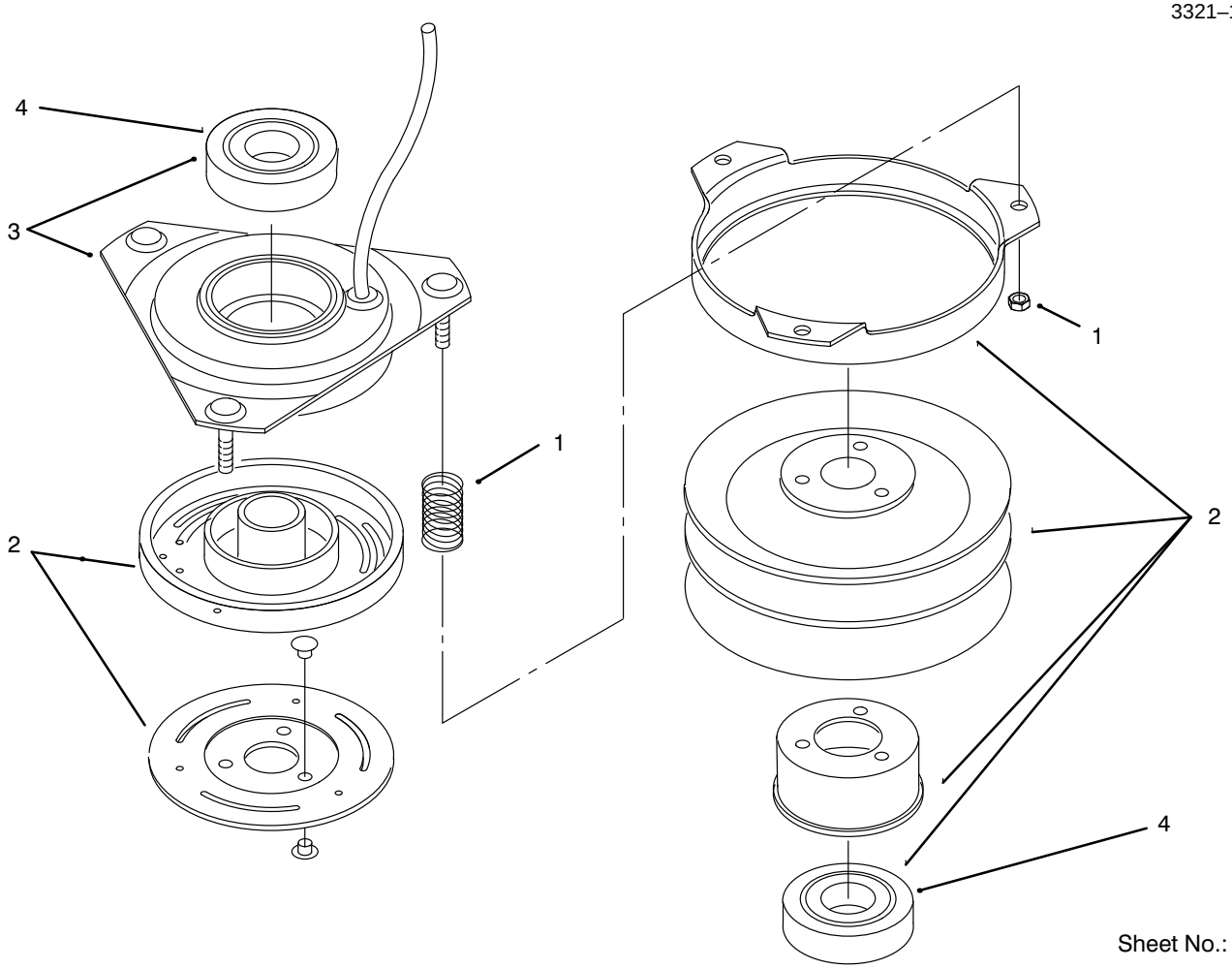
Sheet No.: 5

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

Ref. No.	Part No.	Qty.	Description
1	94–6950–03	1	Muffler Baffle ASM
2	702366	1	Clip–Wire Retainer
3	32144–14	3	Screw–HWH
4	98–9003	1	Muffler
5	92–6780	4	Nut–HHF
6	93–0350	2	Gasket–Exhaust
7	94–3514	1	Engine–Kohler 19
8	94–3389	1	Decal–Toro Power Plus 19
9	92–6877	1	Valve–Oil Drain
10	32144–118	2	Screw–PPH
11	3296–29	4	Nut–Lock
12	92–6888	1	Pulley
13	94–2514	1	Clutch–Electric PTO
14	112843	1	Washer–PTO
15	9114466	1	Screw HH
16	322–9	4	Screw–HH
17	3231–25	2	Screw–CARR
18	92–6867–01	1	Shield–Muffler
19	3256–24	2	Washer–Flat
20	3296–39	2	Nut–Lock

Ref. No.	Part No.	Qty.	Description

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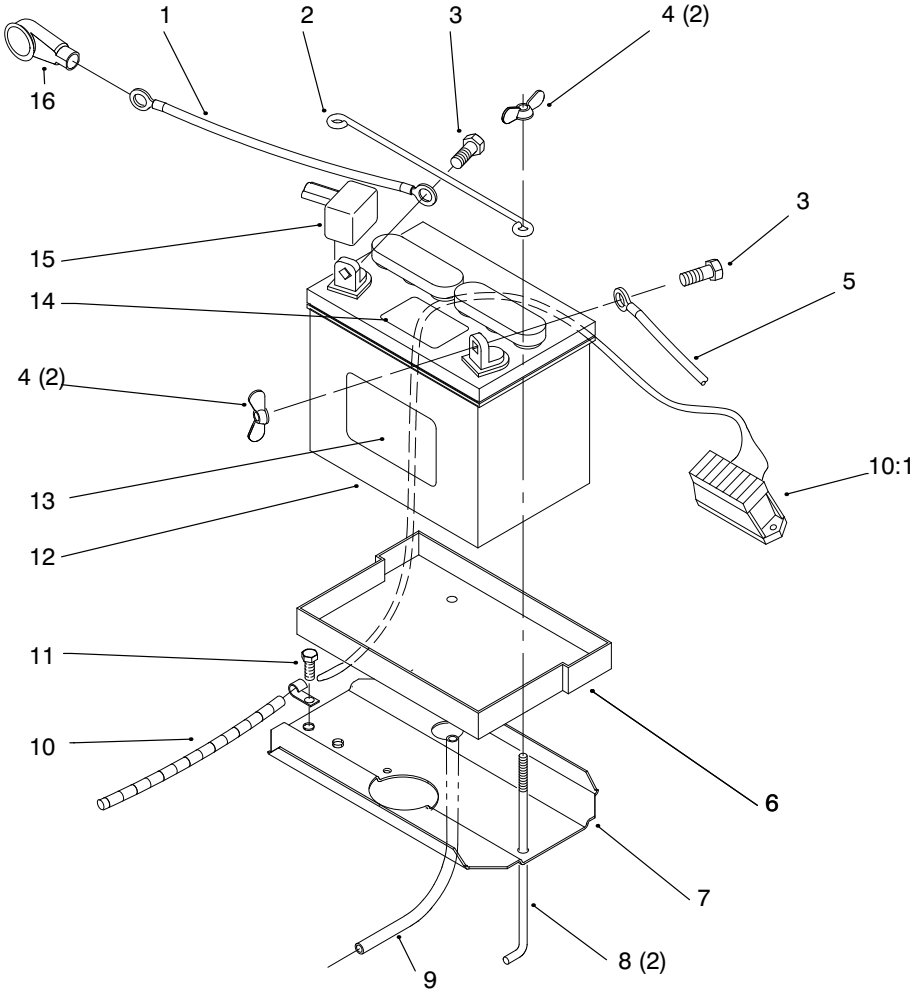
Sheet No.: 501

Clutch 92–6885

Ref. No.	Part No.	Qty.	Description
1	92–3014	3	Nut & Spring ASM
2	94–4930	1	Rotor & Armature ASM
3	92–3016	1	Field ASM w/Bearing
4	114064	2	Bearing–Elec Clutch

Ref. No.	Part No.	Qty.	Description

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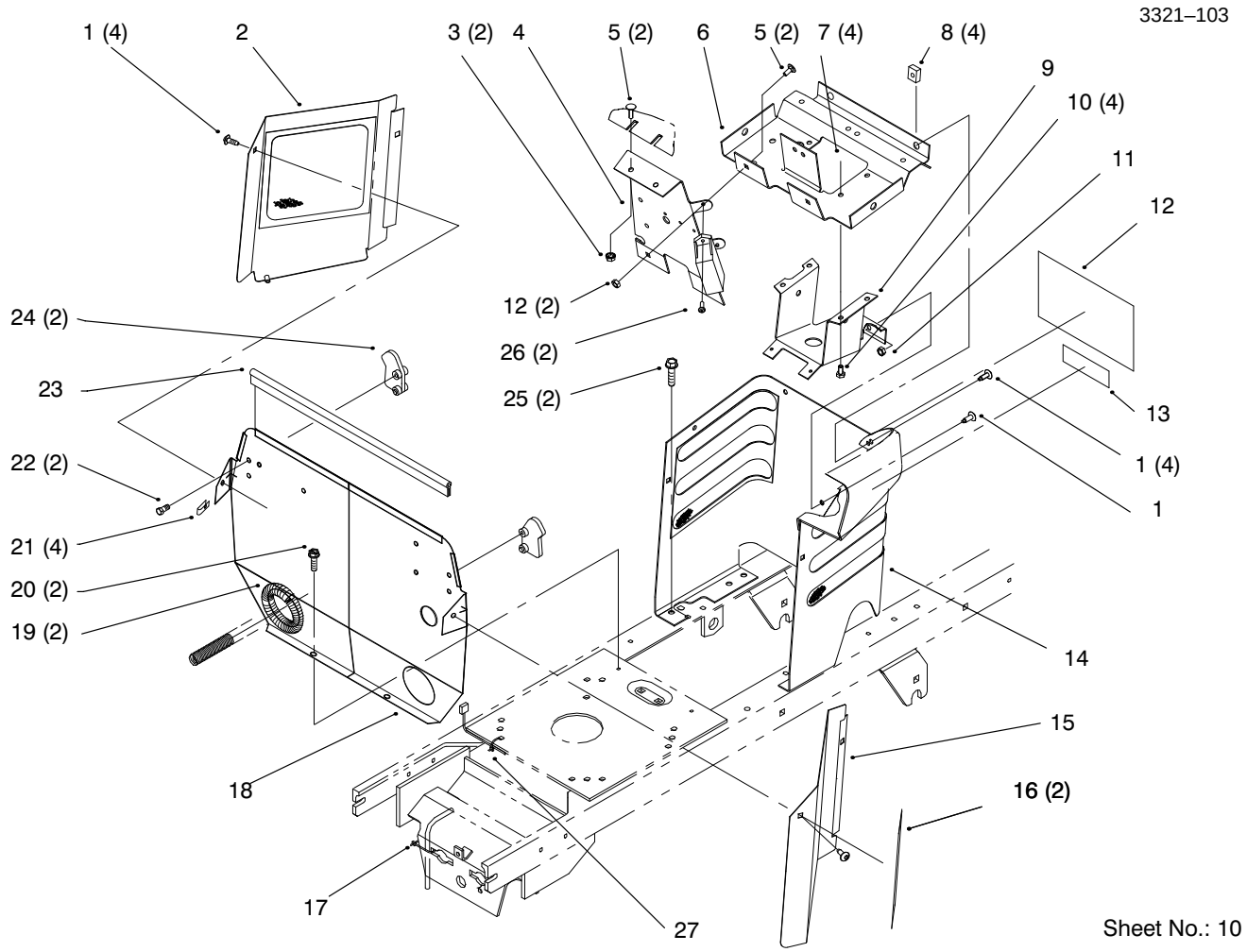
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Battery

Ref. No.	Part No.	Qty.	Description
1	92–6989	1	Cable–Battery Red
2	117316	1	Rod–Battery Hold Down
3	321–4	2	Screw–HH
4	32103–22	4	Nut–Wing
5	93–0324	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	94–1735	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	115877	1	Battery
15	109553	1	Boot–Battery Cable
16	93–3190	1	Boot–Terminal Insulator

Ref. No.	Part No.	Qty.	Description

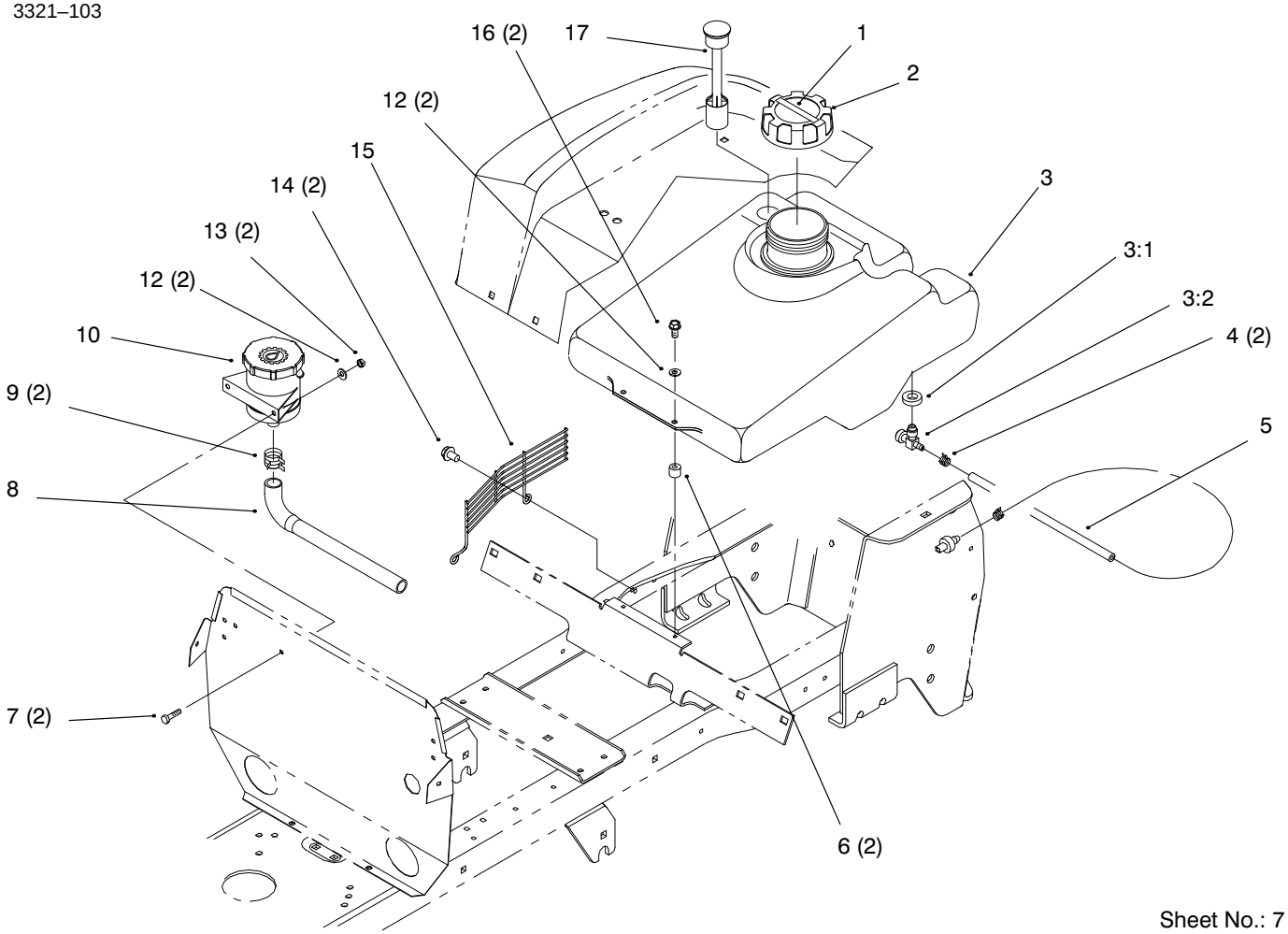
Parts Identified in illustration but not in parts list are not used on this Model



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
13	83–6620	1	Decal–Instruction
14	93–0486–03	1	Hoodstand w/Decals
15	92–6936–03	1	Cover–Side LH
16	95–0810	2	Decal–269–H
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
23	93–1131	1	Trim–Seal
24	92–6960	2	Latch–Hood
25	32144–14	2	Screw–HWH
26	32144–8	2	Screw–PPH
27	250–7	1	Tie–Cable

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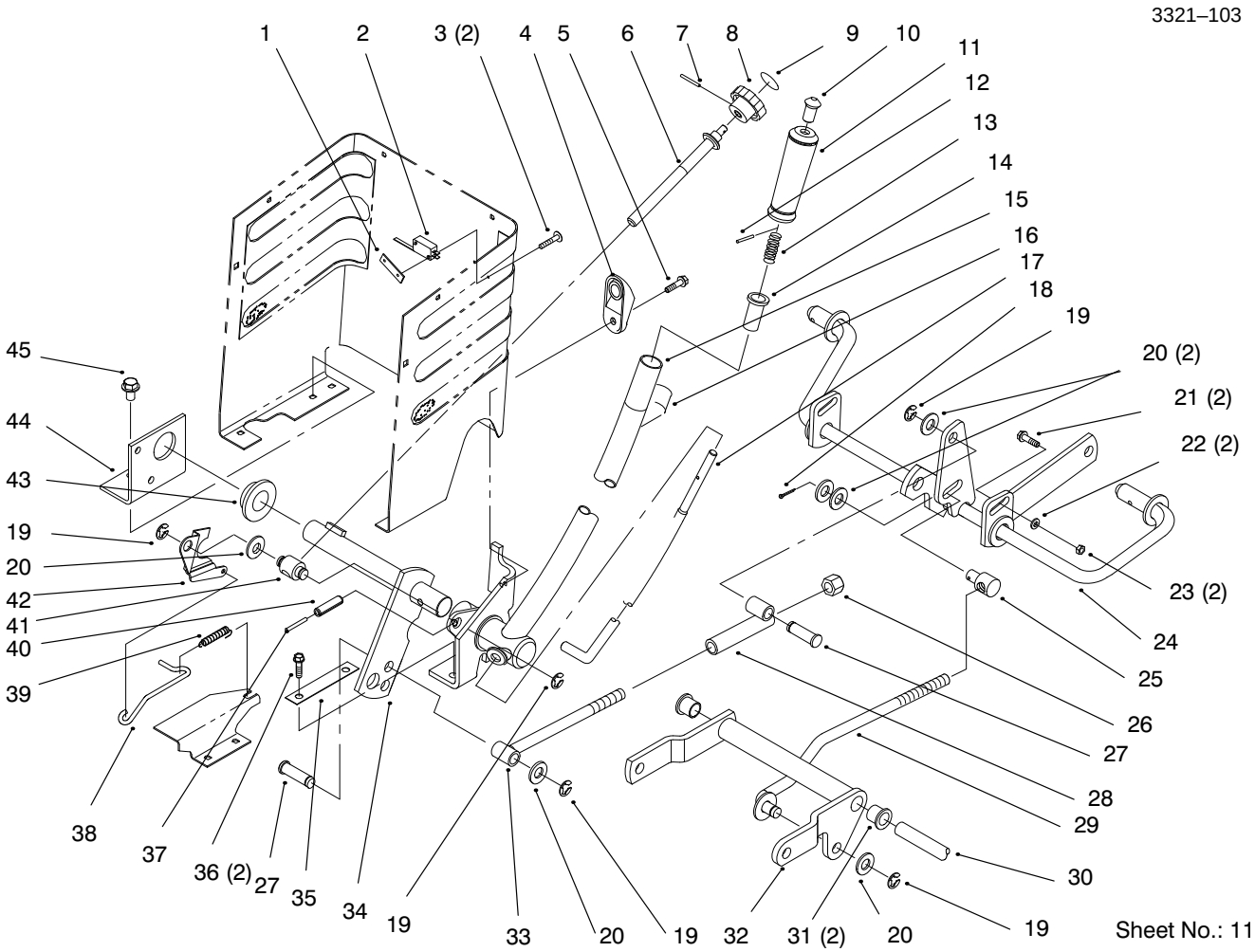


Sheet No.: 7

Fuel Tank and Hydro Reservoir

Ref. No.	Part No.	Qty.	Description
2	88–3980	1	Gas Cap ASM
3	94–6927	1	Tank–Gas
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
16	32104–96	2	Screw–HHST
17	94–1716	1	Fuel Level Sensor ASM
17:1	94–3347	1	Seal–Fuel Sensor
17:2	94–3348	1	Sensor–Fuel Level

Ref. No.	Part No.	Qty.	Description

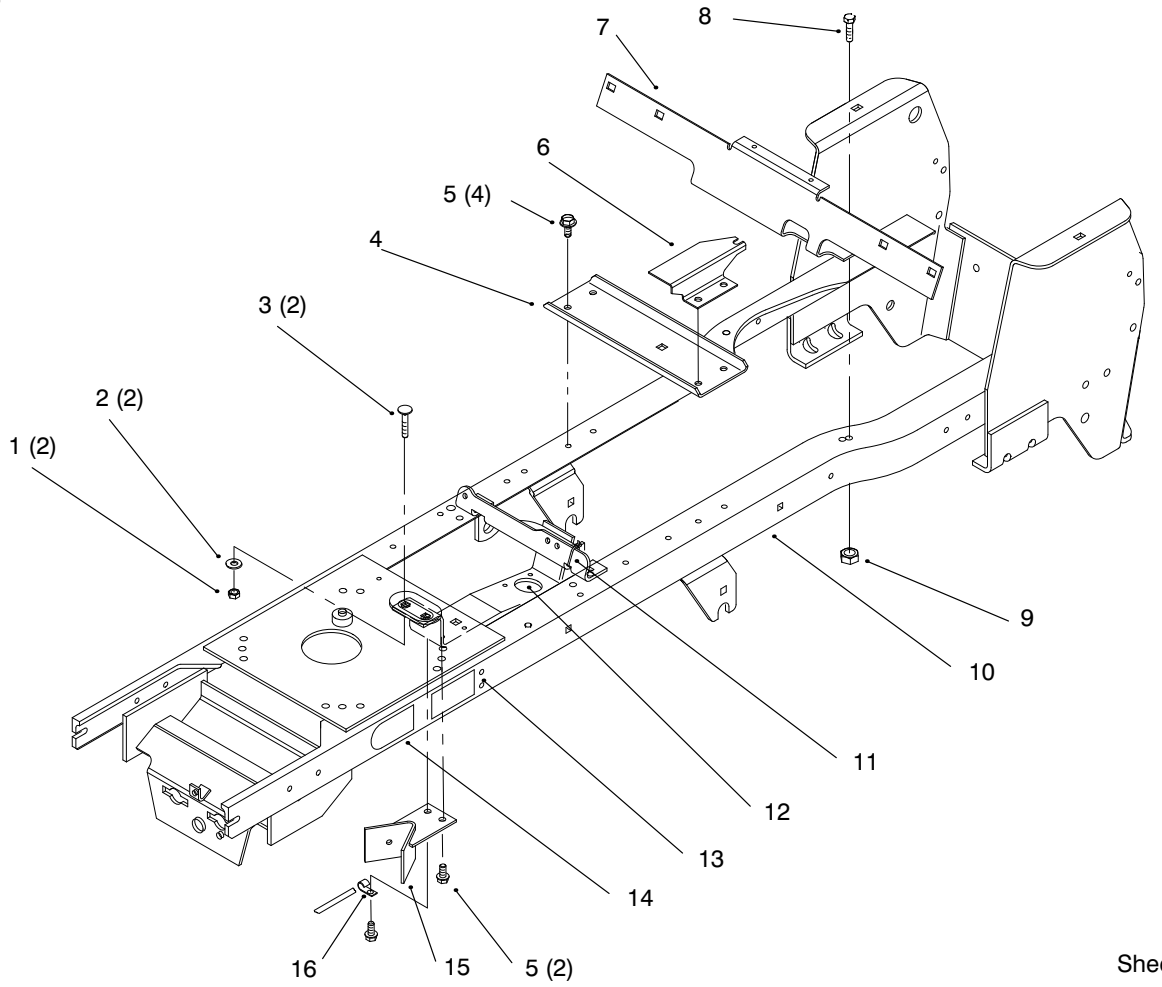


Lift Lever and Height of Cut

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
18	3272–6	1	Pin–Cotter
19	32120–47	5	Ring–Retaining
20	3256–26	6	Washer–Flt
21	3231–25	2	Screw–CARR
22	3256–24	2	Washer–Flat
23	3296–39	2	Nut–Lock
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

Ref. No.	Part No.	Qty.	Description
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	32144–14	2	Screw–HWH

3321–103



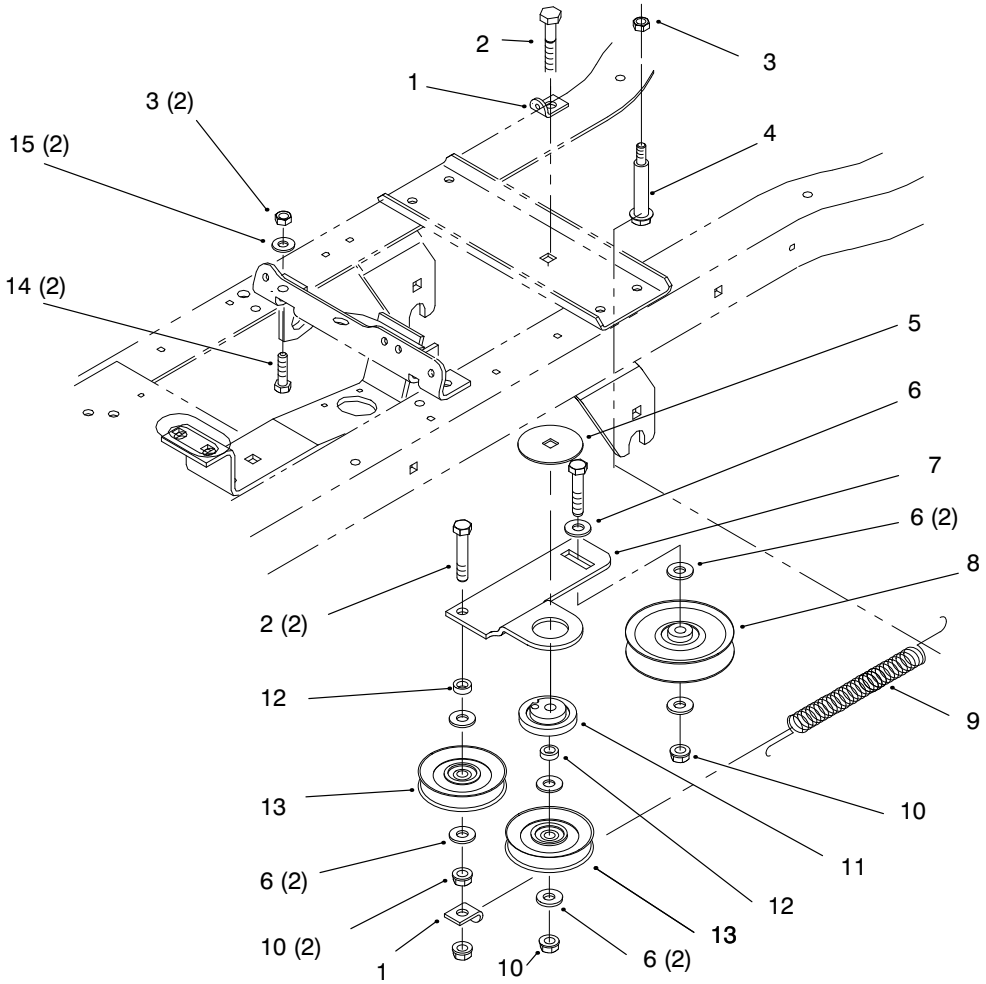
Sheet No.: 14

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
9	3296–29	1	Nut–Lock
10	94–2668	1	Frame Wa
12	92–6992–03	1	Bracket–Steering
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

3321–103



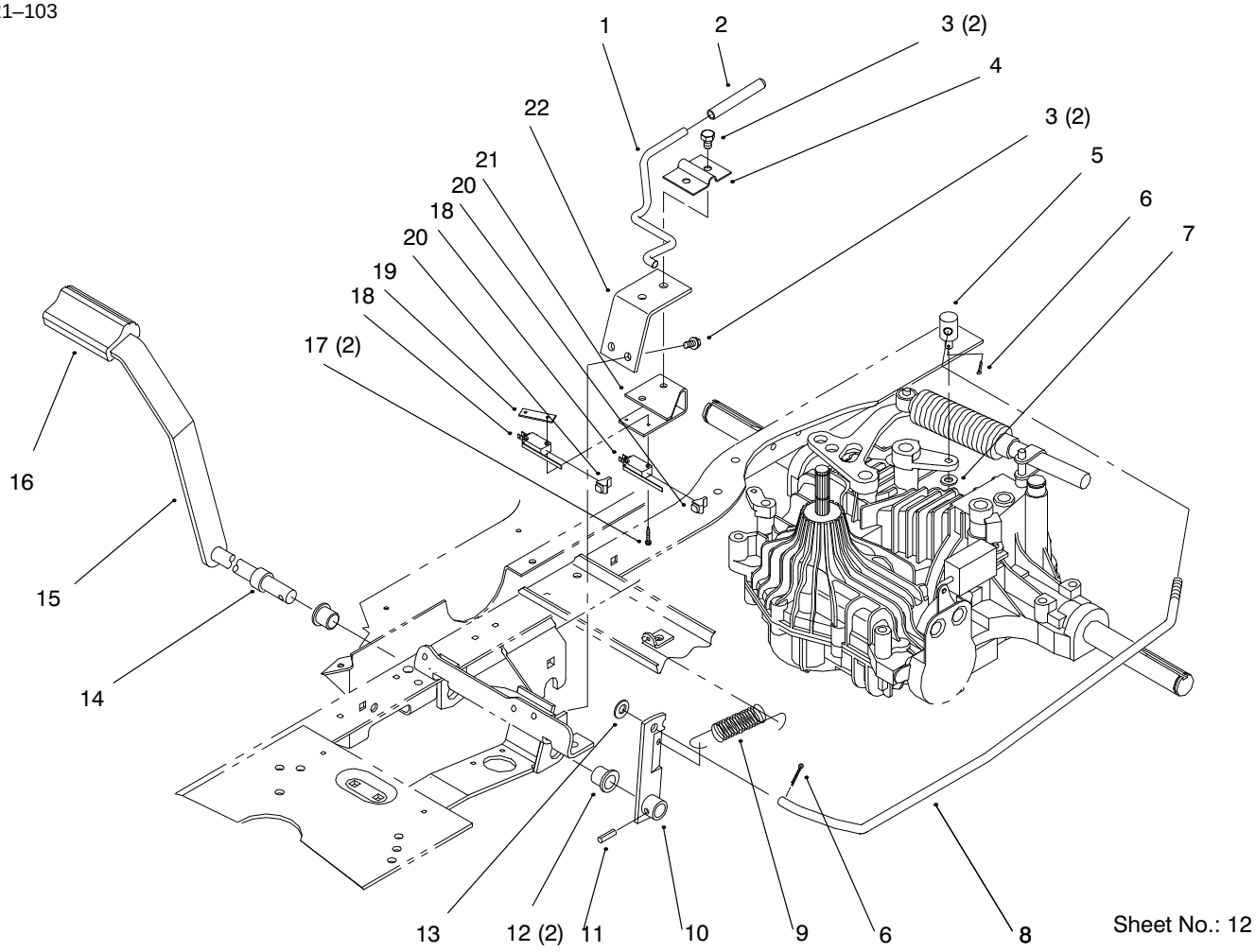
Sheet No.: 3

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

3321–103

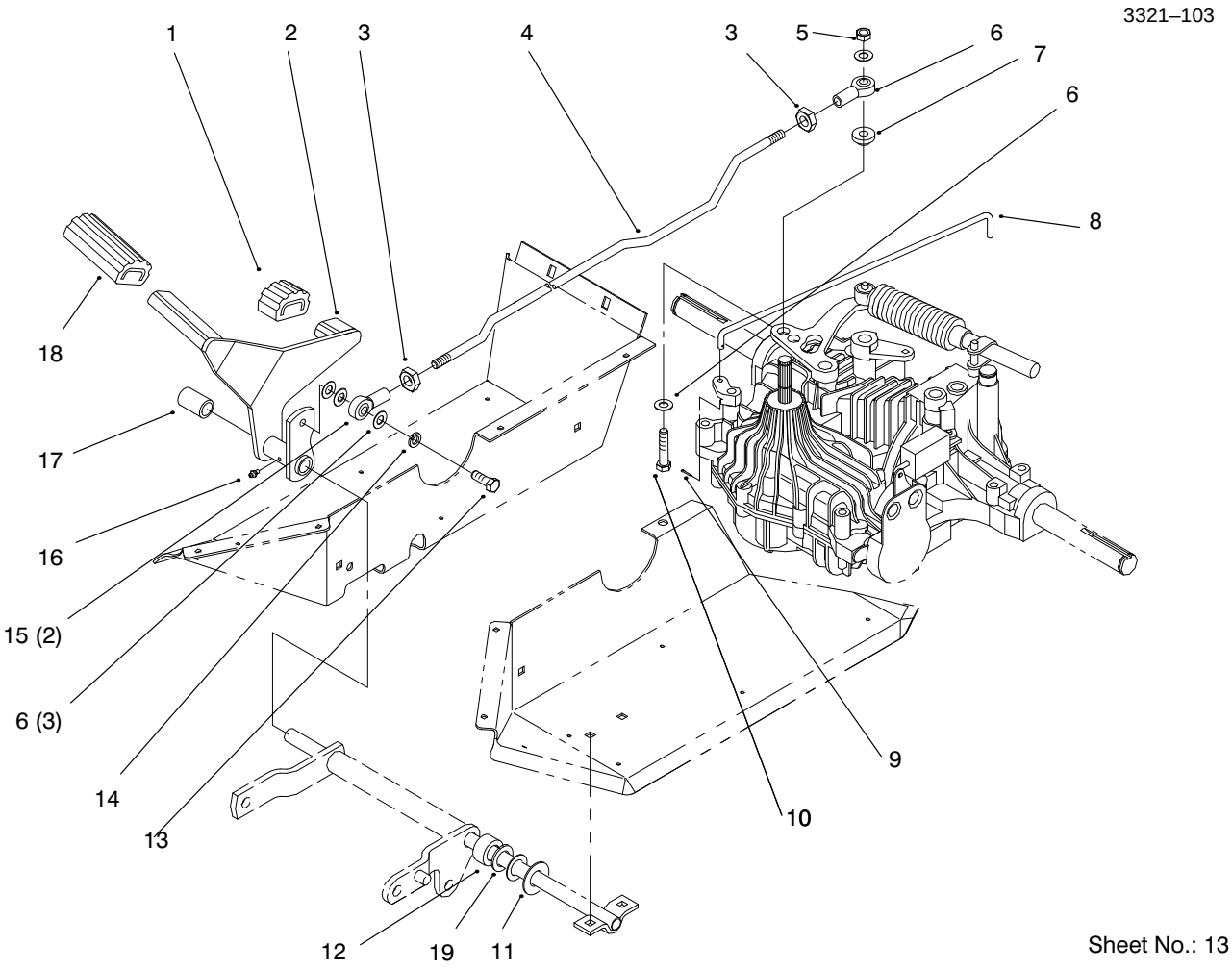


Sheet No.: 12

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



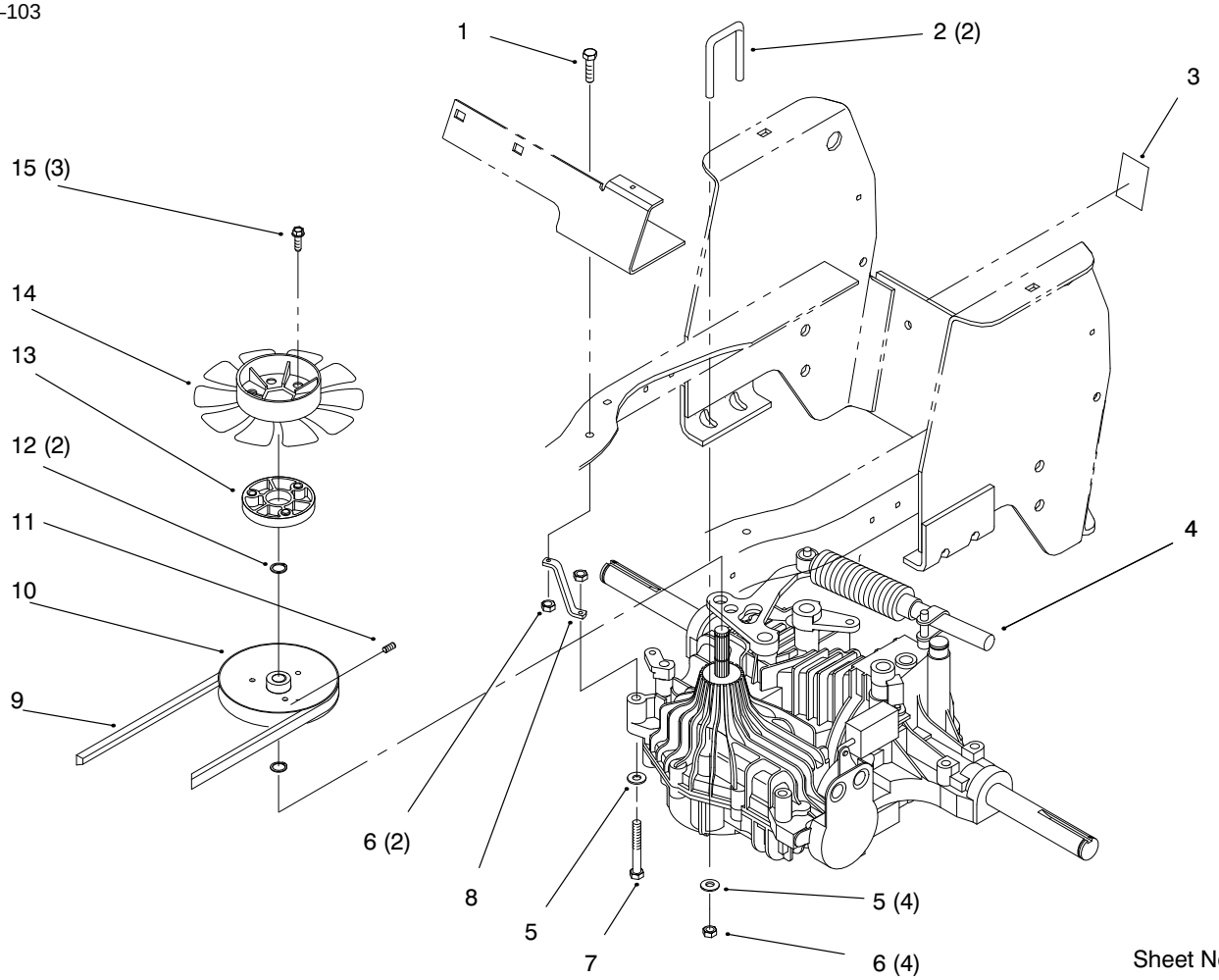
Sheet No.: 13

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

3321–103

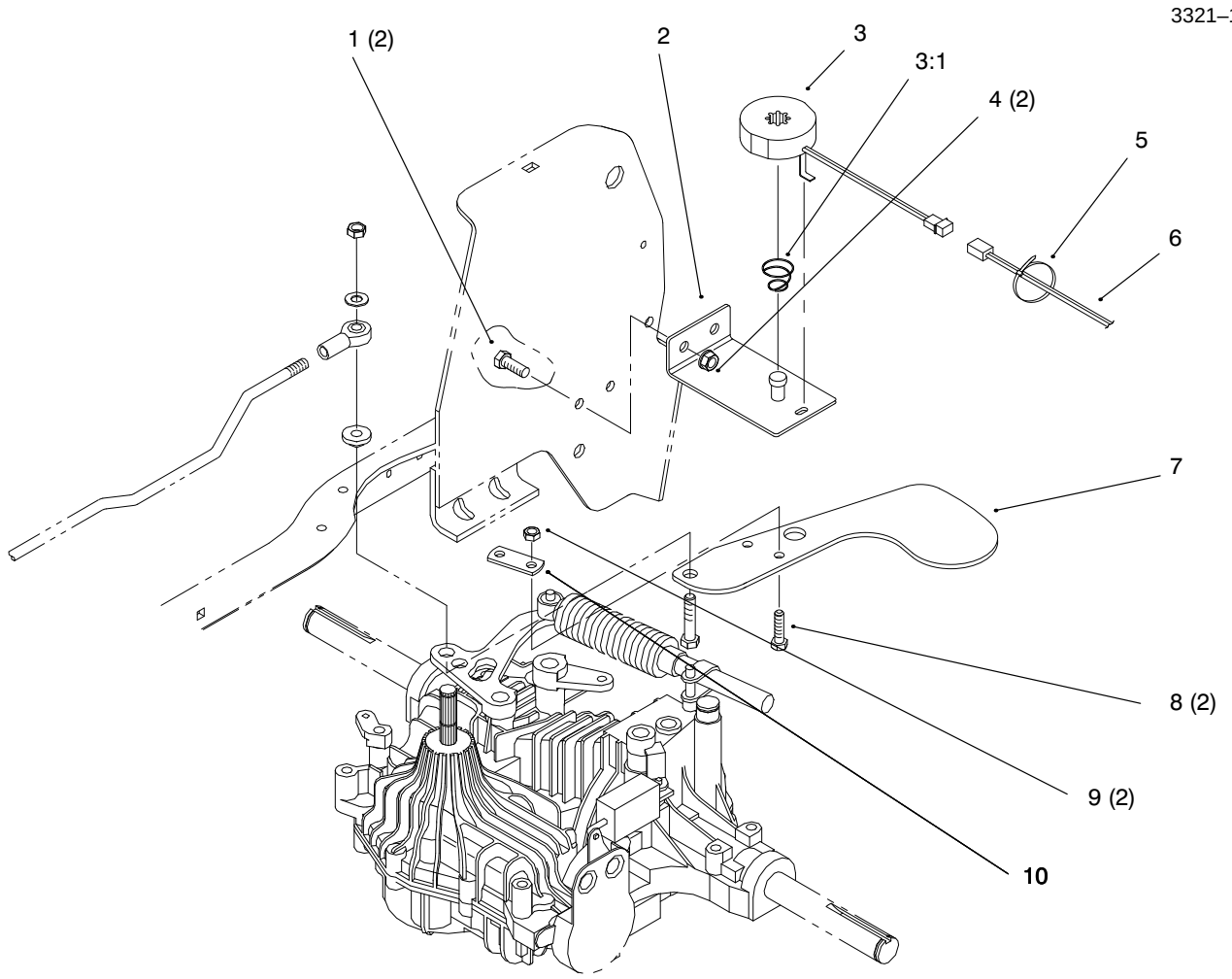


Sheet No.: 15

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
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

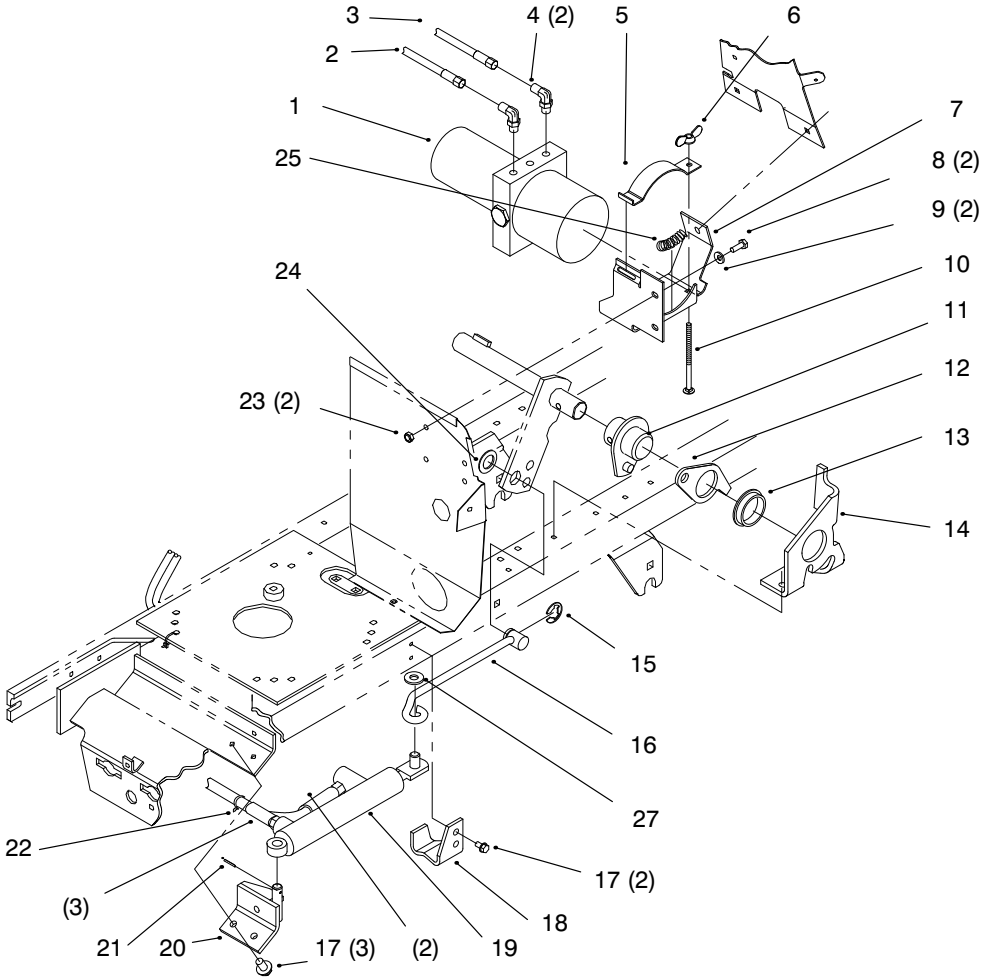


Cruise Control

Ref. No.	Part No.	Qty.	Description
1	323–6	2	Screw–HH
2	93–0512–03	1	Cruise Bracket
3	93–4366	1	Magnet Assembly
3:1	93–6601	1	Spring–Conical
4	3296–39	2	Nut–Lock
7	93–0511	1	Arm–Cruise
8	322–5	2	Screw–HH
9	3296–29	2	Nut–Lock
10	93–0515	1	Clamp–Cruise

Ref. No.	Part No.	Qty.	Description

3321–103



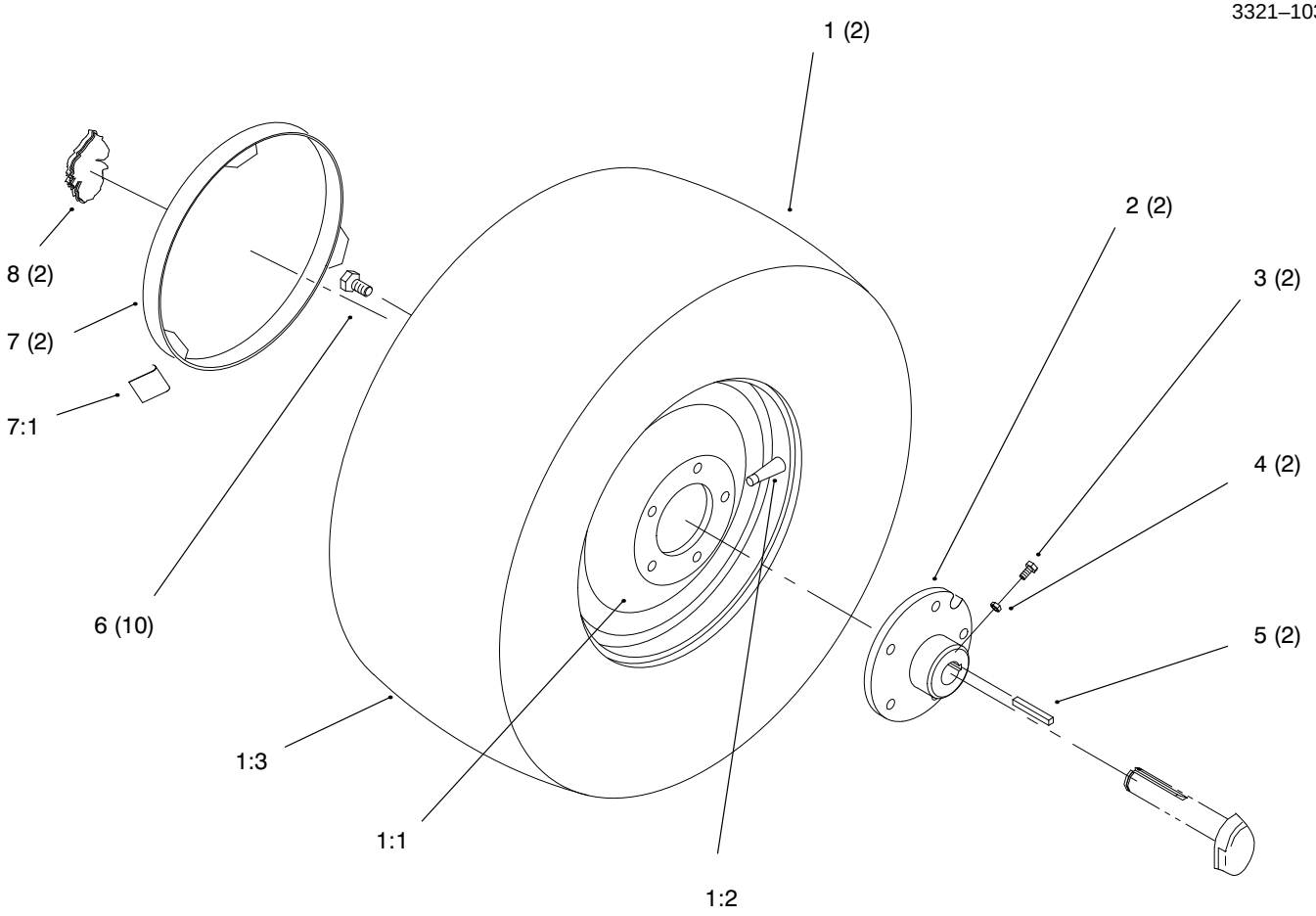
Sheet No.: 26

Power Lift

Ref. No.	Part No.	Qty.	Description
1	94–1700	1	Pump ASM–Hydraulic
2	94–3344	1	Hose Assy
3	94–1713	1	Hose ASM
4	94–3561	2	Fitting–O Ring
5	94–1748–03	1	Clamp–Hydraulic Pump
6	32103–22	1	Nut–Wing
7	94–1747–03	1	Bracket–Mounting
8	321–4	2	Screw–HH
9	3256–22	2	Washer–Flat
10	3229–33	1	Screw–CARR
11	94–3553–03	1	Cap–End
12	94–4927	1	Arm–HOC
13	92–6869	1	Bushing
14	94–4928	1	Bracket–Lift Arm
15	5618	1	Ring–Retaining
16	94–1708	1	Wa–Rod
17	32144–14	5	Screw–HWH
18	94–1709–03	1	Bracket–Support
19	94–1701	1	Cylinder ASM–Hydraulic
20	94–1705–03	1	Bracket–Cyl Mtg
21	3272–6	1	Pin–Cotter
22	614249	1	Tie–Cable
23	3296–8	2	Nut–Lock
24	1278	1	Washer–Shim

Ref. No.	Part No.	Qty.	Description
25	94–1743	1	Tubing
27	92–7047	1	Nut–Push

3321–103



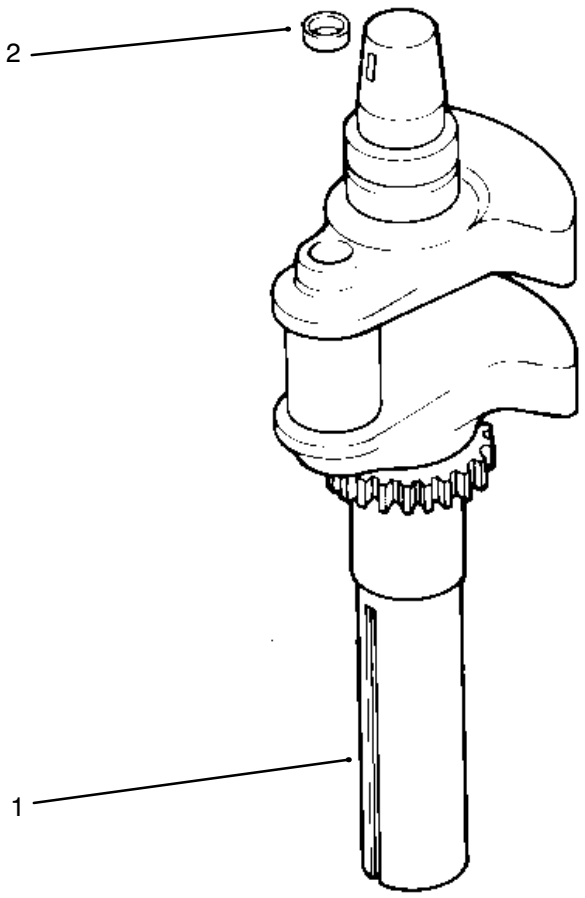
Sheet No.: 24

Rear Wheel

Ref. No.	Part No.	Qty.	Description
☆1		2	Wheel & Tire ASM Rear
1:1	78–1221	2	Wheel
1:2	5108	2	Valve–Tire Tubeless
1:3	116971	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
7	94–3718	2	ASM–Hubcap
7	94–3731	2	Hubcap–12”
8	94–3736	2	Horsehead Logo

Ref. No.	Part No.	Qty.	Description

☆ Not serviced

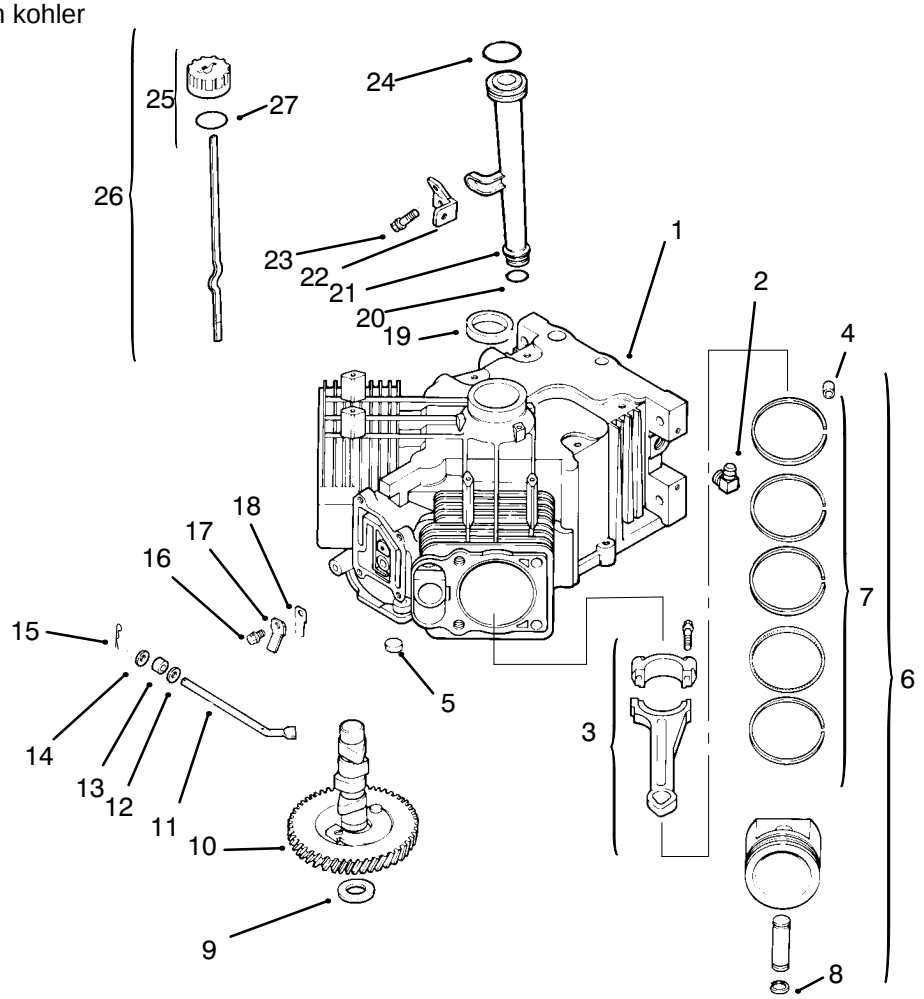


Sheet No.: 201

Crankshaft

Ref. No.	Part No.	Qty.	Description
1	24 014 42	1	Crankshaft
2	52 139 09	1	Plug–Cup
	24 703 01	1	Kit–High Temp Cutout

Ref. No.	Part No.	Qty.	Description



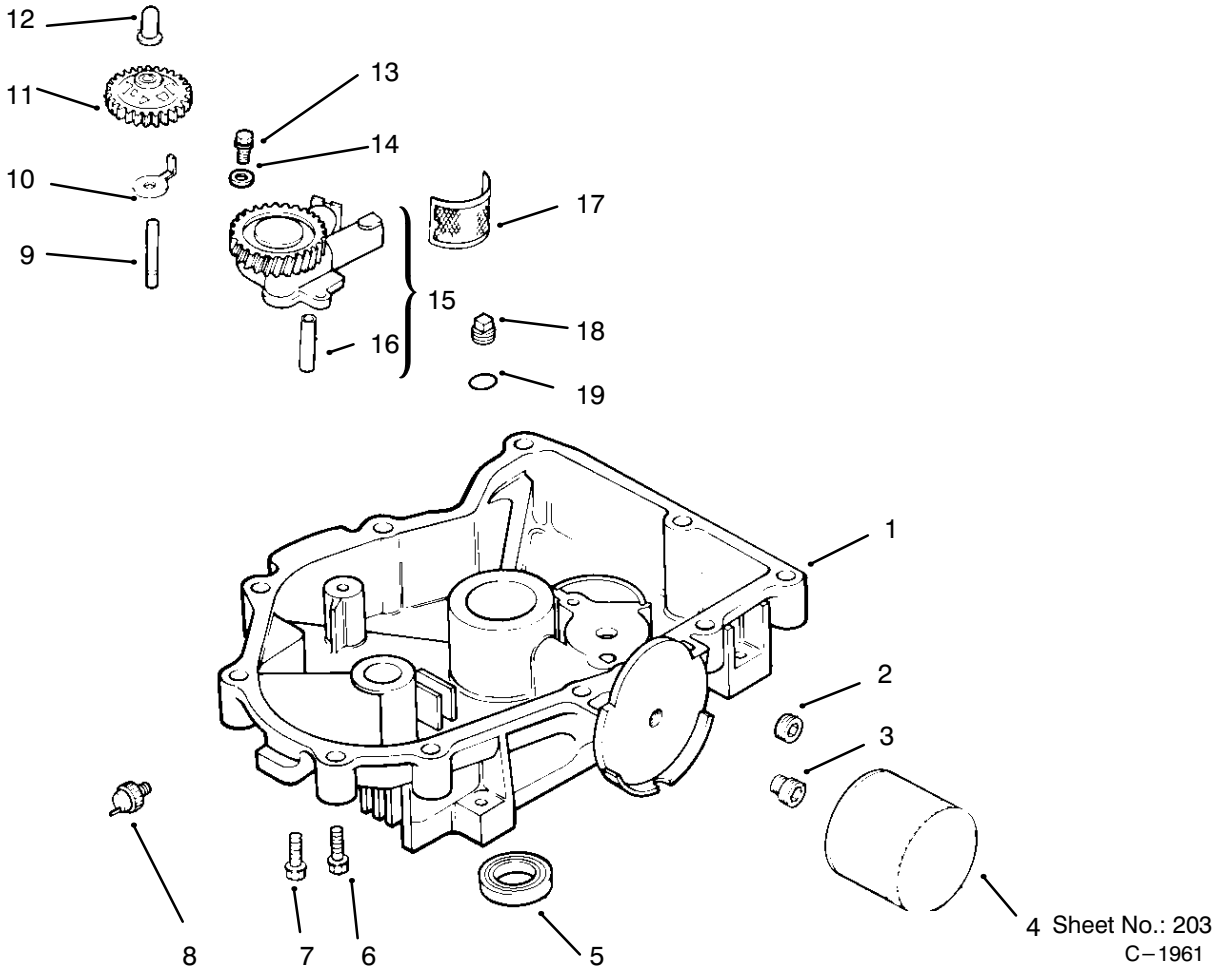
Sheet No.: 202
C–1960

Crankcase

Ref. No.	Part No.	Qty.	Description
1	24 522 09	1	Short Block
2	25 155 02	1	Connector–90 DEG
3	24 067 05	2	Connecting Rod STD
3	24 067 06	2	Connecting Rod .25
†4	12 380 03	6	Dowel–Locating
5	52 139 09	1	Plug–Cup
6	24 874 01	2	Piston ASM STD INC 4/7/8
6	24 874 02	2	Piston ASM .25 INC 4/7/8
6	24 874 03	2	Piston ASM .50 INC 4/7/8
†7	24 108 01	2	Ring Set STD INC 4/8
7	24 108 02	2	Ring Set .25 INC 4/8
7	24 108 03	2	Ring Set .50 INC 4/8
†8	24 018 01	4	Retainer–Piston Pin
9	12 422 07	1	Shim–Camshaft A/R
9	12 422 08	1	Shim–Camshaft A/R
9	12 422 09	1	Shim–Camshaft A/R
9	12 422 10	1	Shim–Camshaft A/R
9	12 422 11	1	Shim–Camshaft A/R
9	12 422 12	1	Shim–Camshaft A/R
9	12 422 13	1	Shim–Camshaft A/R
10	24 012 05	1	Camshaft
11	24 144 01	1	Shaft–Governor Cross
12	X–25–63	1	Washer–Flat

Ref. No.	Part No.	Qty.	Description
13	12 032 01	1	Seal–Governor Shaft
14	X–25–102	1	Washer–Flat
15	12 380 04	1	Pin–Governor Hitch
16	M–0545010	2	Screw M5x0.8x10
17	24 018 04	2	Retainer–Reed
18	24 402 05	2	Beed–Breather
19	24 032 01	1	Seal–Oil
20	12 153 01	1	O Ring–Lower Fill Tube
21	12 123 04	1	Tube–Oil Fill
22	24 126 19	1	Bracket–Oil Fill Tube
23	M–0545016	1	Screw M5x0.8x16
24	12 153 02	1	O Ring–Upper Fill Tube
25	24 038 04	1	Dipstick INC 26–27
†26	25 755 13	1	Kit–Oil Cap INC 3
†27	12 153 03	1	O Ring–Fill Cap
*	24 755 03	1	Gasket Set

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



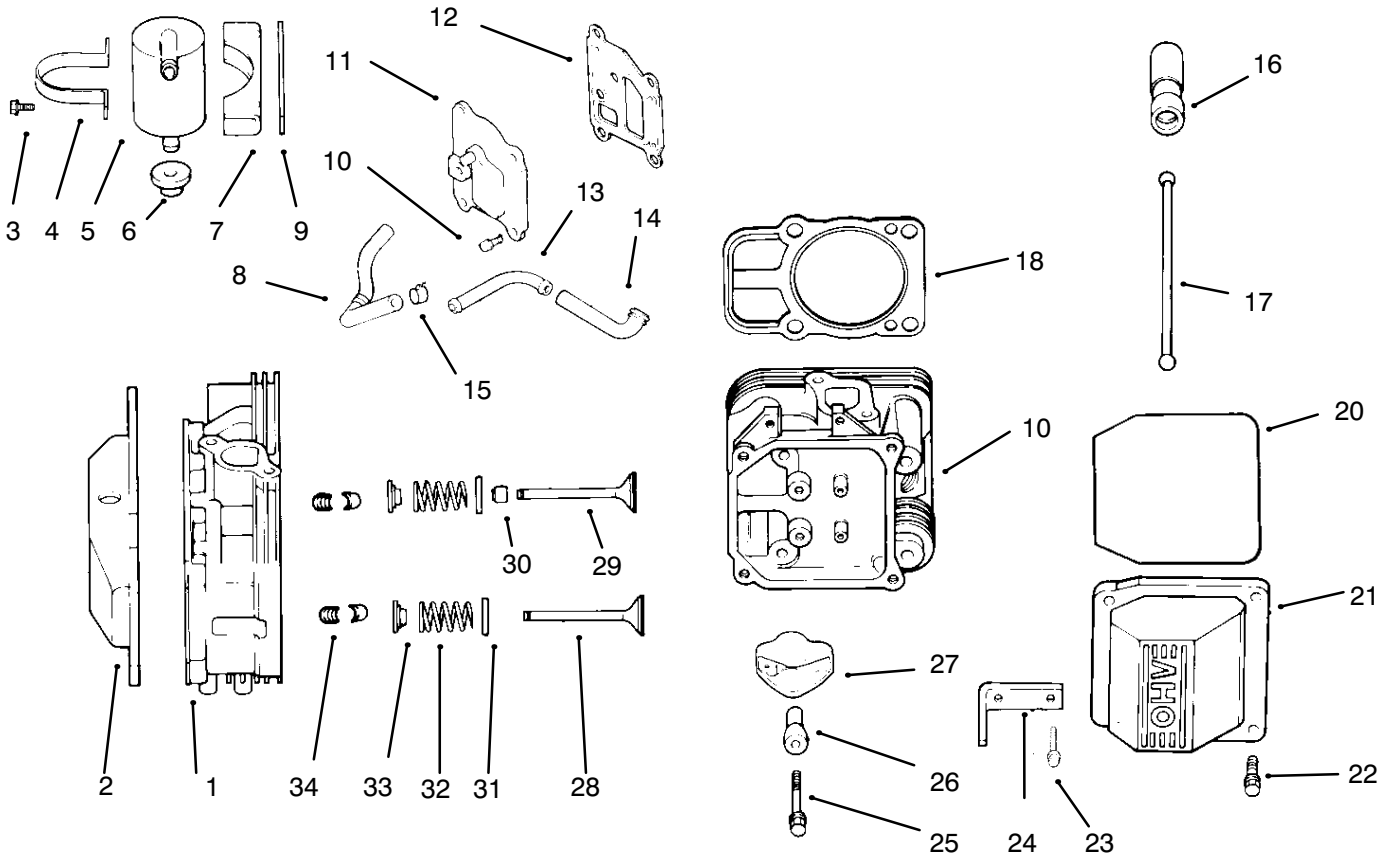
Sheet No.: 203
C–1961

Oil Pan / Lubrication

Ref. No.	Part No.	Qty.	Description
1	24 199 07	1	Oil Pan
2	X–75–32	1	Plug–HS 3/8 NPTF
3	24 136 01	1	Nipple–Oil Filter
4	12 050 01	1	Filter–Oil
5	52 032 08	1	Seal–Oil
6	24 086 17	1	Screw M8x1.25x45
7	24 086 16	9	Screw M8x1.25x45
8	52 099 06	1	Switch–Oil Pressure
9	12 144 02	1	Shaft–Governor Gear
10	52 448 02	1	Tab–Locking
11	24 043 12	1	Governor Gear ASM
12	12 380 01	1	Pin–Governor Regulating
13	M–0645025	2	Screw–Valve Cover
14	M–0631005	2	Washer–Governor
15	24 393 08	1	Oil Pump ASM INC 16
†16	24 123 05	1	Tube–Oil Pickup
17	12 162 07	1	Screen–Oil Pickup
18	X–75–10	1	Plug–SH 3/8 NPTF
19	24 153 08	1	O Ring
*	25 113 05	1	Decal–Oil Sentry

Ref. No.	Part No.	Qty.	Description

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

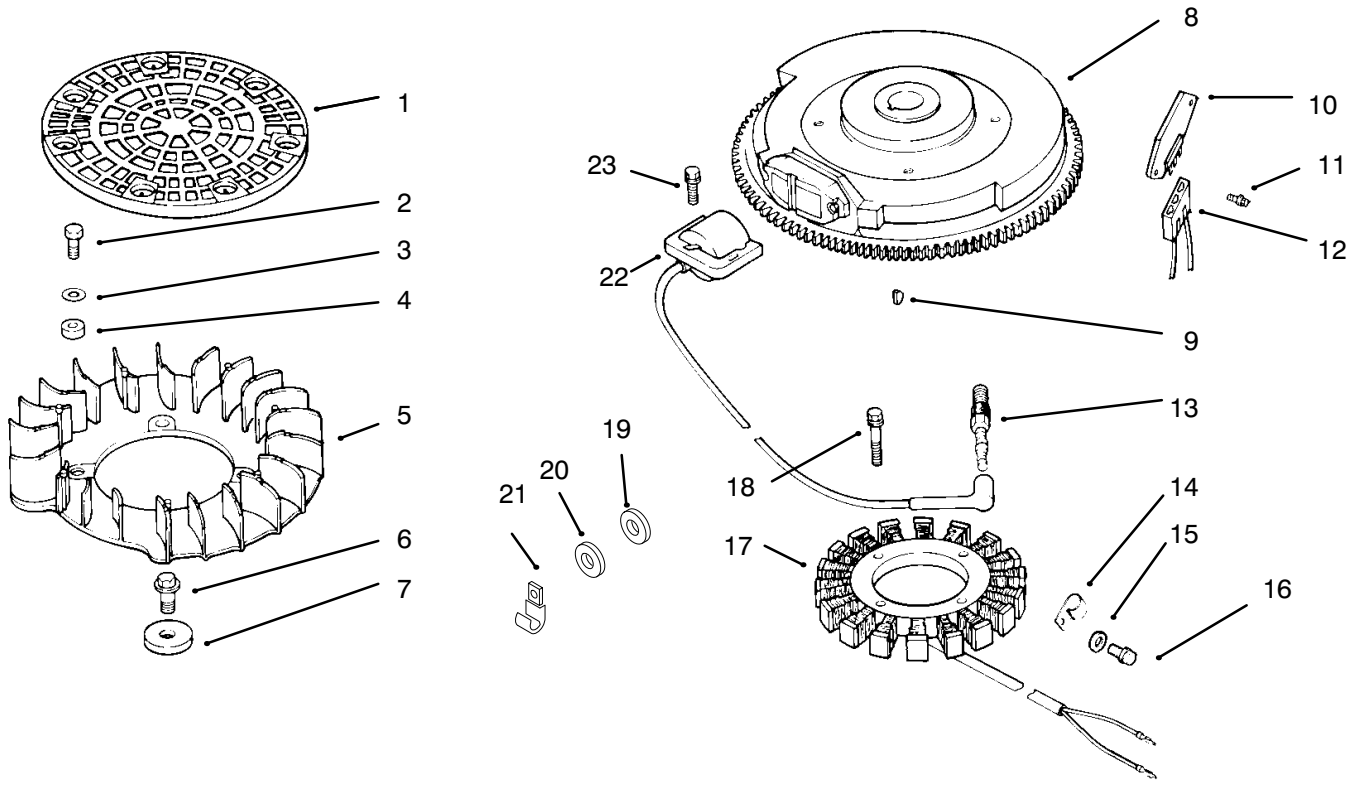


Sheet No.: 204

Head / Valve / Breather

Ref. No.	Part No.	Qty.	Description
1	24 318 11	1	Head ASM–#1 Cylinder
2	24 755 76	1	Kit–Valve Incl 6 20–22
3	M–0545016	2	Screw M5x0.8x16
4	24 445 02	1	Strap–Breather
5	24 755 57	1	Kit–Breather Incl 3–9
6	25 313 02	1	Grommet–Rubber
7	24 126 44	1	Bracket–Breather Sep
8	24 326 13	1	Hose–Breather
9	24 112 12	1	Spacer
10	M–0645020	4	Screw–HH M6x1.0x20
11	24 096 15	1	Cover–Breather
12	24 041 23	1	Gasket–Breather
13	24 294 06	1	Fitting
14	24 326 14	1	Hose–Breather
15	X–426–9	2	Clamp–Hose
16	12 351 01	4	Lifter–Valve
17	24 411 05	4	Rod–Push
18	24 041 08	2	Gasket–Cylinder Head
19	24 318 12	1	Head ASM–#2 Cylinder
20	24 153 12	1	O–Ring
21	24 755 74	1	Kit Valve Incl 20–22
22	24 086 32	4	Screw–Shoulder
23	12 086 16	8	Screw M10x1.5x91
24	24 445 01	1	Strap–Lifting

Ref. No.	Part No.	Qty.	Description
25	M–0640034	4	Screw M6x1.0x34
26	24 599 01	4	Pivot–Rocker Arm
27	25 186 01	4	Arm–Rocker
28	24 016 01	2	Valve–Exhaust
28	24 016 02	2	Valve–Exhaust (.25)
29	24 017 01	2	Valve–Intake
29	24 017 02	2	Valve–Intake (.25)
30	24 032 05	2	Seal–Valve Stem
31	235011	4	Retainer–Spring
32	24 089 02	4	Spring–Valve
33	12 173 01	4	Cap–Valve Spring
34	12 755 03	4	Kit–Retainer
	24 033 03	1	Kit–Breather Incl 11–12
	24 755 66	1	Kit–Valve Incl 17 26–27



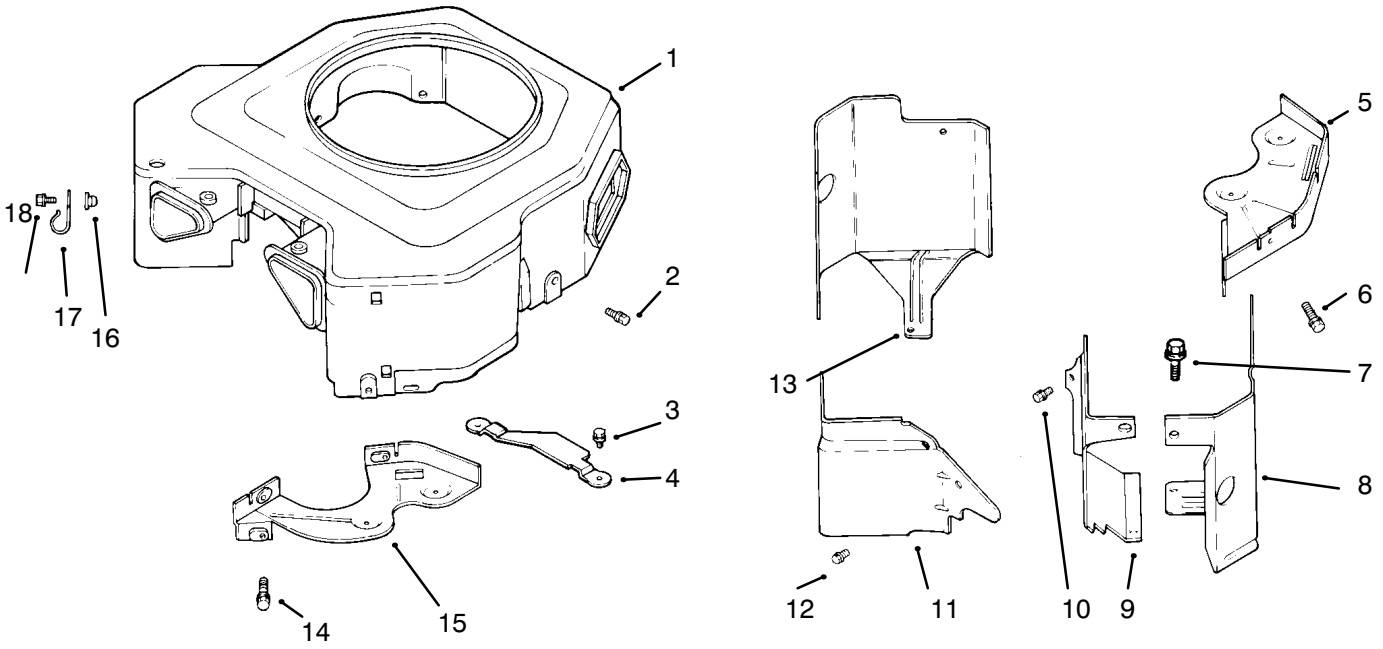
Sheet No.: 205
C–1963

Ignition / Electrical

Ref. No.	Part No.	Qty.	Description
1	24 162 17	1	Screen–Grass
2	M–0403025	4	Screw M4x0.7x25
3	X–25–92	4	Washer–Flat
4	24 112 04	1	Spacer–Fan
5	24 157 03	1	Fan
6	M–0639016	4	Screw M6x1.0x16
7	12 112 01	4	Spacer–Fan
8	24 025 04	1	Flywheel ASM
9	X–42–15	1	Key
10	25 403 03	1	Rectifier–Regulator
11	24 086 18	2	Screw–Phillips
12	236602	1	Connector–Regulator
13	12 132 02	2	Spark Plug
14	48 154 02	1	Clip–Stator Harness
15	12 468 03	1	Washer–Flywheel Screw
16	12 086 14	1	Screw–Flywheel Mounting
17	24 085 01	1	Stator–15 Amp
18	M–0548025	2	Screw M5x0.8x25
19	X–25–63	2	Washer–Flat
20	X–25–92	2	Washer–Flat
21	235173	1	Clip–Cable
22	24 584 01	1	Module–Ignition
23	M–0545020	4	Screw M5x0.8x20
*	24 113 18	1	Decal–Grass Screen

Ref. No.	Part No.	Qty.	Description
	24 176 40	1	Harness–Wire
	24 518 28	1	Lead–Black

* Not illustrated



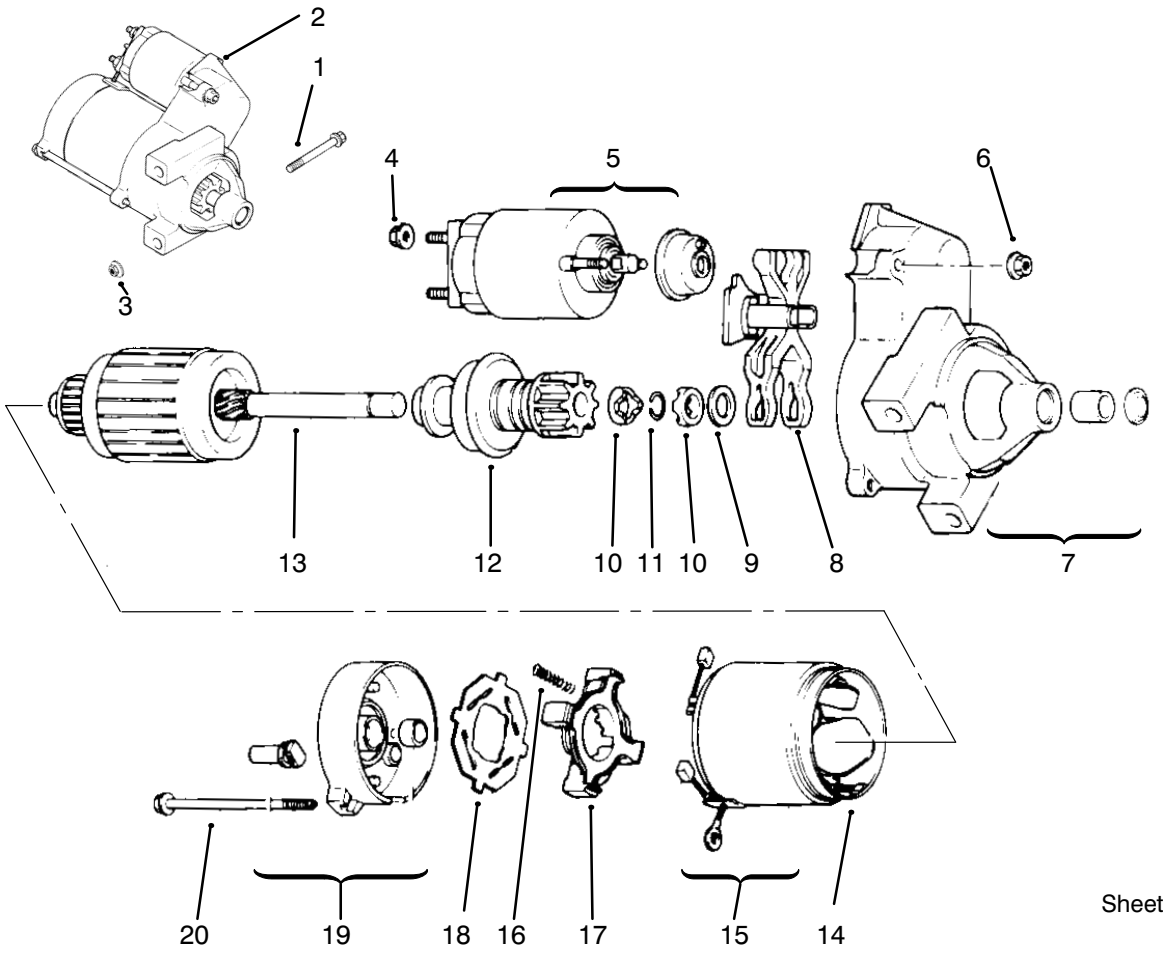
Sheet No.: 206
C–1964

Blower Housing & Baffles

Ref. No.	Part No.	Qty.	Description
1	24 027 20	1	Housing–Blower ASM
2	M–0549016	3	Screw M5x0.8x16
3	M–0645016	4	Screw–HH M6x1.0x16
4	24 314 05	1	Guard–Flywheel
5	24 146 02	1	Plate–Backing #2 Side
6	M–0545020	2	Screw M5x0.8x20
7	M–0551016	1	Screw M5x0.8x14
8	24 063 20	1	Baffle–Cylinder #2 Side
9	24 063 23	1	Baffle–Valley #1 Side
10	M–0549010	2	Screw M5x0.8x10
11	24 063 14	1	Baffle–Valley #2 Side
12	M–0549016	2	Screw M5x0.8x16
13	24 063 30	1	Baffle–Cylinder #1 Side
14	M–0649016	2	Screw M6x1.0x16
15	24 146 08	1	Plate–Backing #1
16	24 100 01	4	Nut–Plastic
17	47 154 01	1	Clip–Cable
18	24 086 12	1	Screw–Cable Clip
*	24 100 02	2	Nut INC W/Blower Hsng
*	24 113 10	1	Decal–Horsepower
*	244 113 01	1	Decal–Horsepower
*	25 139 16	1	Plug INC W/Blower Hsng

Ref. No.	Part No.	Qty.	Description

* Not illustrated



Sheet No.: 207
C–1965

Starting System

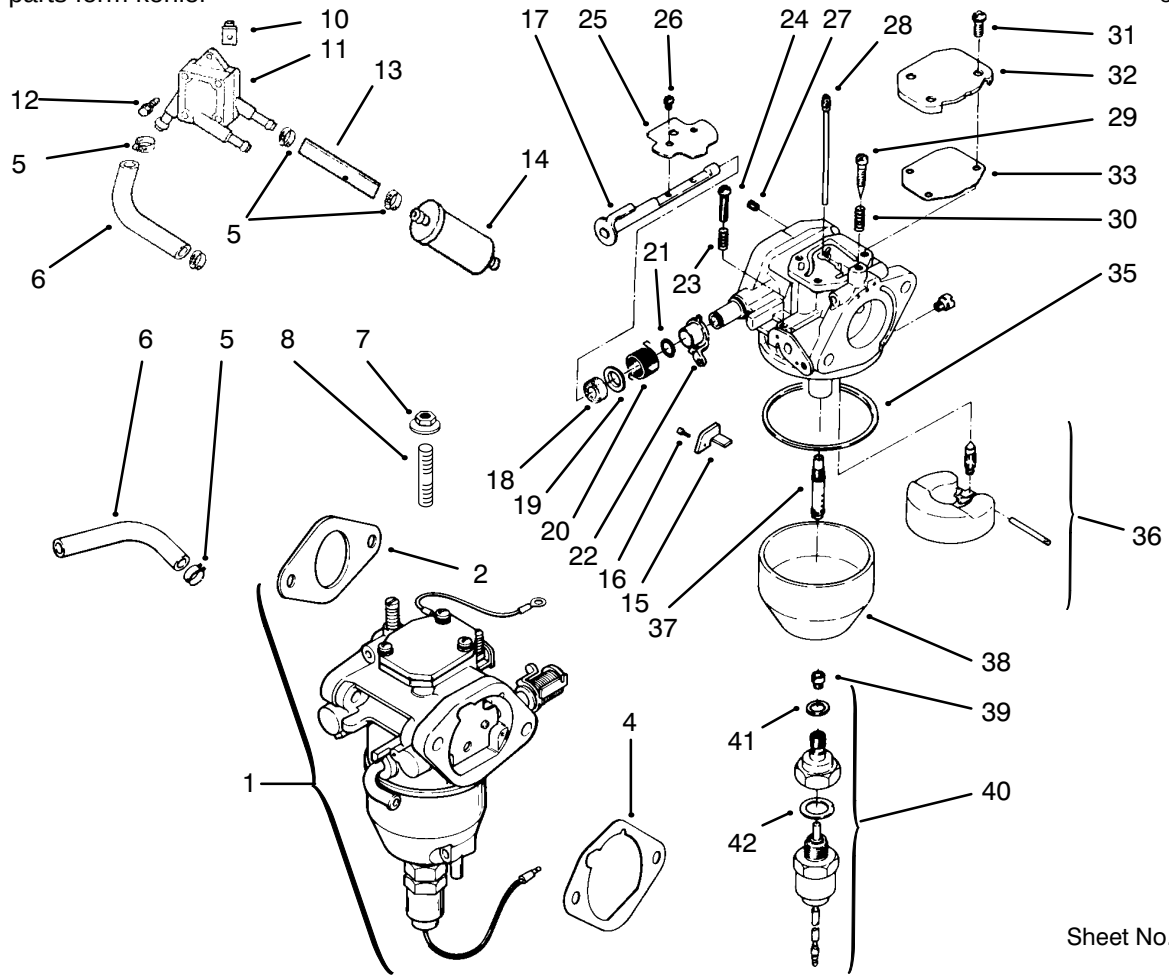
Ref. No.	Part No.	Qty.	Description
1	M–0839080	2	Screw M8x1.25x80
2	12 098 03	1	Starter INC 4–20
3	M–0841080	1	Nut M8x1.25
†4	52 100 09	1	Nut–Starter
†5	52 435 02	1	Solenoid
†6	52 100 10	2	Nut Starter
†7	12 081 02	1	Cap–Drive End
†8	12 090 10	1	Lever Starter Drive
†9	42 468 14	1	Washer–Thrust
†10	52 100 08	2	Nut–Stop Collar
†11	52 141 03	1	Ring–Retainer
†12	12 239 01	1	Drive–Pinion
†13	12 170 03	1	Armature–Starter
†14	12 471 01	1	Frame
†15	52 221 01	1	Kit–Brush INC 16
†16	52 089 09	4	Spring–Brush
†17	52 323 03	1	Holder–Brush
†18	52 168 01	1	Insulator
†19	12 301 01	1	Cap–Commutator End
†20	52 211 05	2	Bolt
	24 755 84	1	Kit–Starter Repair

Ref. No.	Part No.	Qty.	Description

† Included in a service kit or in an assembly

Kohler Engine CV20S–PS65532
Obtain parts form kohler

3321–103



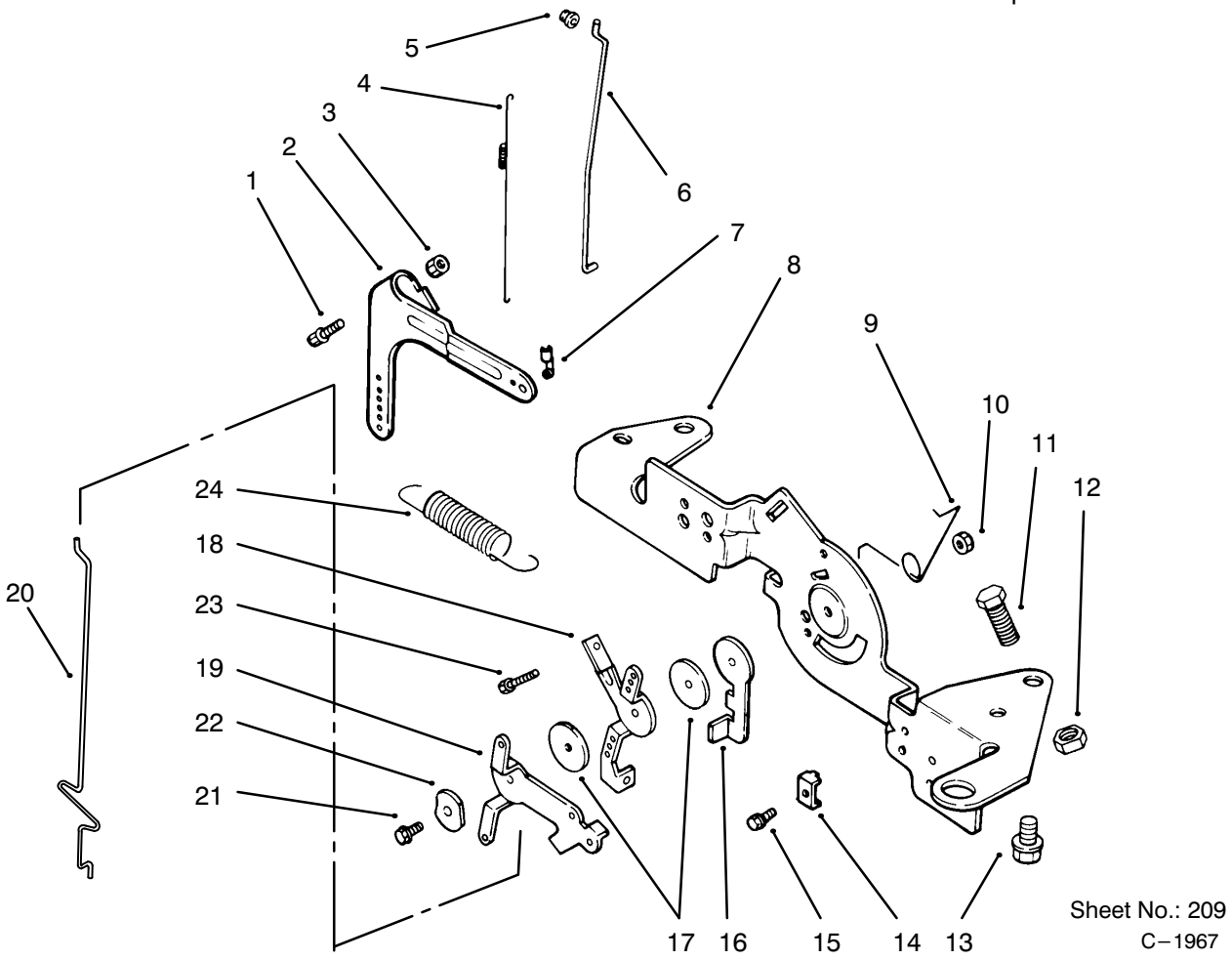
Sheet No.: 208

Fuel System

Ref. No.	Part No.	Qty.	Description
†2	24 041 15	1	Gasket–Carburetor
†4	24 041 14	1	Gasket–A/C Base
5	X–426–9	6	Clamp–Hose
6	24 353 03	2	Line–Fuel 10 1/2”
7	M–0641060	2	Nut M6x1.0
8	M–0629095	2	Stud M6x1.0x95
10	24 100 01	2	Nut–Plastic
11	24 393 04	1	Pump–Fuel
12	24 086 12	2	Screw–Cable Clip
13	25 353 15	1	Line–Fuel 3 1/2”
14	25 050 02	1	Filter–Fuel
†15	24 126 29	1	Bracket–Throttle Stop
†16	M–0259006	1	Screw M2.5x45x5.5
†17	24 144 15	1	Shaft–Choke
†18	24 468 05	1	Washer
†19	24 241 01	1	Collar–Choke
†20	24 089 22	1	Spring–Choke Return
†21	24 141 04	1	Ring–Choke Lever
†22	24 090 10	1	Lever–Choke
†23	24 089 24	1	Spring–Throttle Screw
†24	24 086 19	1	Screw–Throttle Adjust
25	24 146 13	1	Valve–Choke
†26	24 086 20	4	Screw–Throttle Shaft
†27	24 337 27	1	Jet–Air Bleed
†28	24 337 11	1	Jet–Slow
†29	24 086 22	1	Screw–Idle Adjust

Ref. No.	Part No.	Qty.	Description
†30	24 089 23	1	Spring–Idle Adjust Screw
†31	24 086 21	3	Screw
†32	24 096 13	1	Cover–Passage
†33	24 041 18	1	Gasket–Passage Cover
†35	24 041 19	1	Gasket–Float Chamber
†36	24 757 05	1	Kit–Float Repair
†37	24 369 01	1	Nozzle–Main
†38	24 234 01	1	Chamber–Float
†39	24 337 20	1	Jet–Main
†40	24 755 15	1	Kit–Solenoid INC 41–42
†41	24 041 21	1	Gasket–Chamber Screw
†42	24 041 20	1	Gasket–Solenoid
*	24 041 15	1	Gasket–Carburetor
*	24 063 22	1	Baffle–Carburetor
*	24 755 25	1	Kit–Hi Alt 1500–3000 M
*	24 755 26	1	Kit–Hi Alt Over 3000 M
*	24 757 06	1	Kit–Carburetor Repair

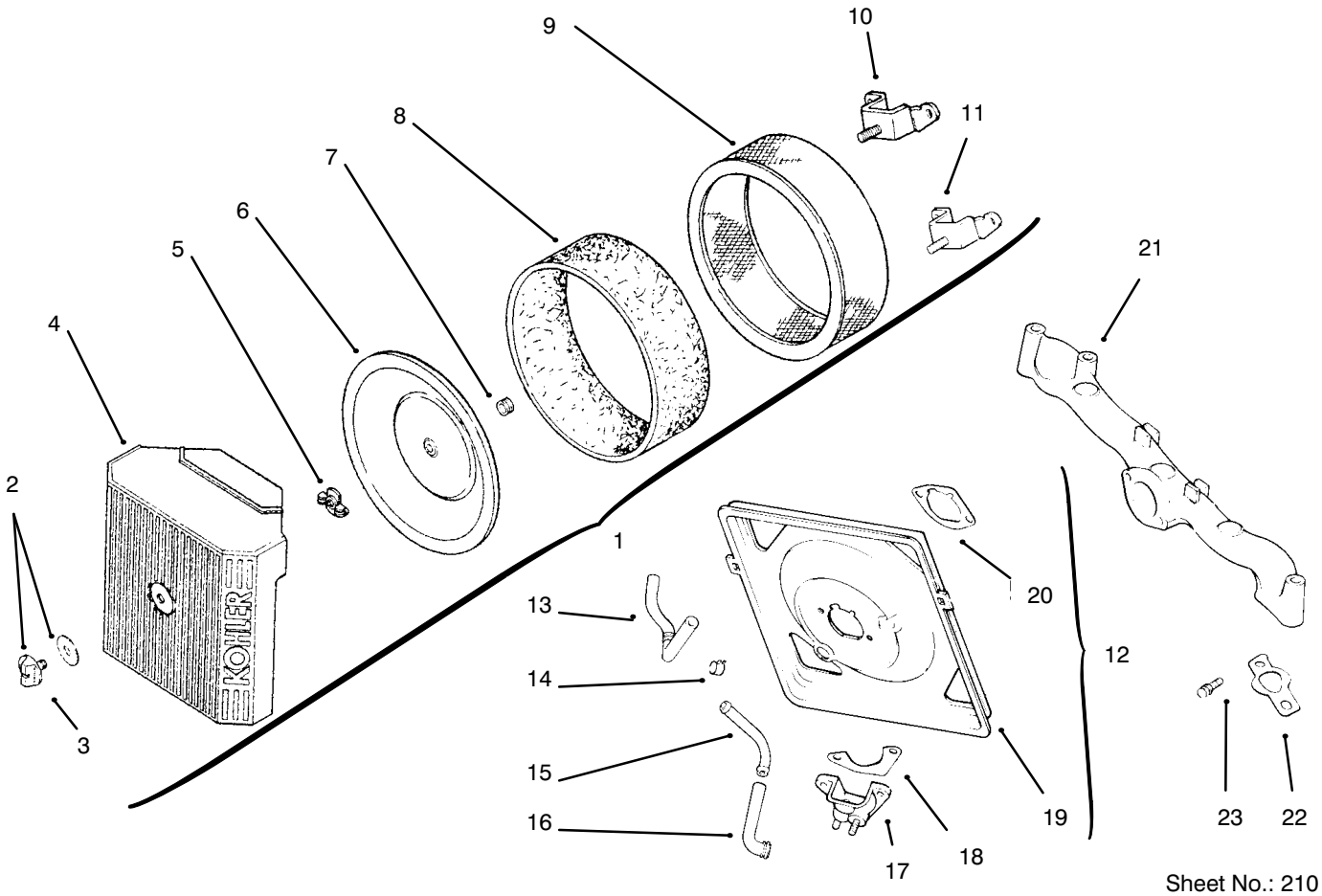
† Included in a service kit or in an assembly
* Not illustrated



Engine Controls

Ref. No.	Part No.	Qty.	Description
1	Sm–0642025	1	Screw M6x1.0x25
2	24 090 14	1	Lever–Governor
3	M–0641060	1	Nut M6x1.0
4	24 089 01	1	Spring–Linkage
5	25 158 08	1	Bushing–Linkage
6	24 079 04	1	Linkage–Throttle
7	25 158 11	1	Bushing–Linkage
8	24 126 13	1	Bracket–Control
9	24 089 03	1	Spring–Choke Return
10	M–0547050	1	Nut M5x0.8
11	Sm–0545016	1	Screw M5x0.8x16
12	M–0446030	1	Nut–Hex M4x0.7
13	Sm–0645016	4	Screw M6x1.0x16
14	12 237 01	2	Clamp–Cable
15	Sm–0545016	2	Screw M5x0.8x16
16	24 090 07	1	Lever–Throttle Actuator
17	24 468 01	3	Washer
18	24 090 03	1	Lever–Throttle Control
19	24 090 05	1	Lever–Choke
20	24 079 05	1	Linkage–Choke
21	Sm–0545020	1	Screw M5x0.8x20
22	41 468 03	1	Washer–Wave
23	M–0403025	1	Screw M4x0.7x25
24	24 089 15	1	Spring–Governor

Ref. No.	Part No.	Qty.	Description

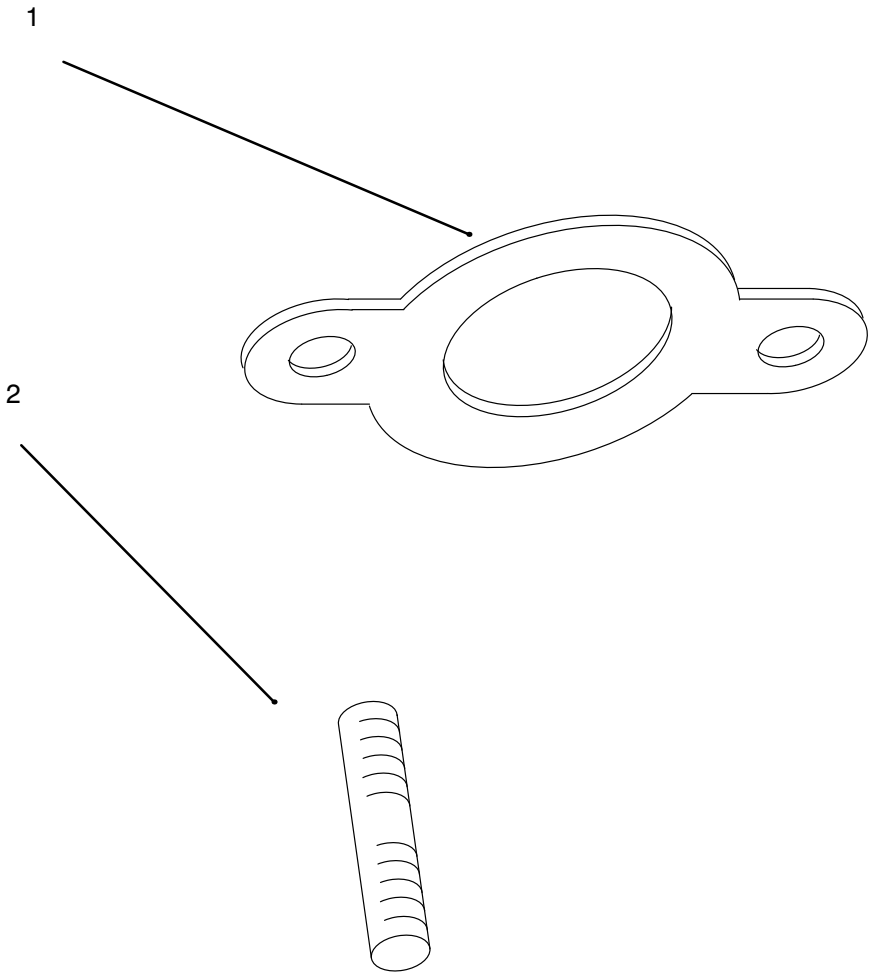


Sheet No.: 210

Air Intake / Filtration

Ref. No.	Part No.	Qty.	Description
1	24 743 05	1	Kit–Air Cleaner Cover
2	24 755 91	1	Kit–Knob W/Gasket
3	25 341 02	1	Knob–Cover
4	24 096 24	1	Cover–Air Cleaner
5	12 100 01	1	Nut–Wing
6	24 096 01	1	Cover–Inner Air Cleaner
7	24 032 03	1	Seal–Air Intake
8	24 083 02	1	Element–Precleaner
9	47 083 03	1	Element–Air Cleaner
10	24 126 21	1	Bracket–Air Cleaner Base
11	24 126 43	1	Bracket–Air Cleaner
12	24 755 86	1	Kit–Air Cleaner Base
13	24 326 13	1	Hose–Breather
14	X–426–9	2	Clamp–Hose
15	24 294 06	1	Fitting
16	24 326 14	1	Hose–Breather
17	24 109 06	1	Cup–Fuel Spitback
18	24 041 13	1	Gasket–Fuel Spitback Cup
19	24 094 14	1	Base–Air Cleaner
20	24 041 14	1	Gasket–A/C Base
21	24 164 06	1	Manifold–Intake
22	24 041 01	2	Gasket–Intake

Ref. No.	Part No.	Qty.	Description
			Manifold
23	M–0651055	4	Screw



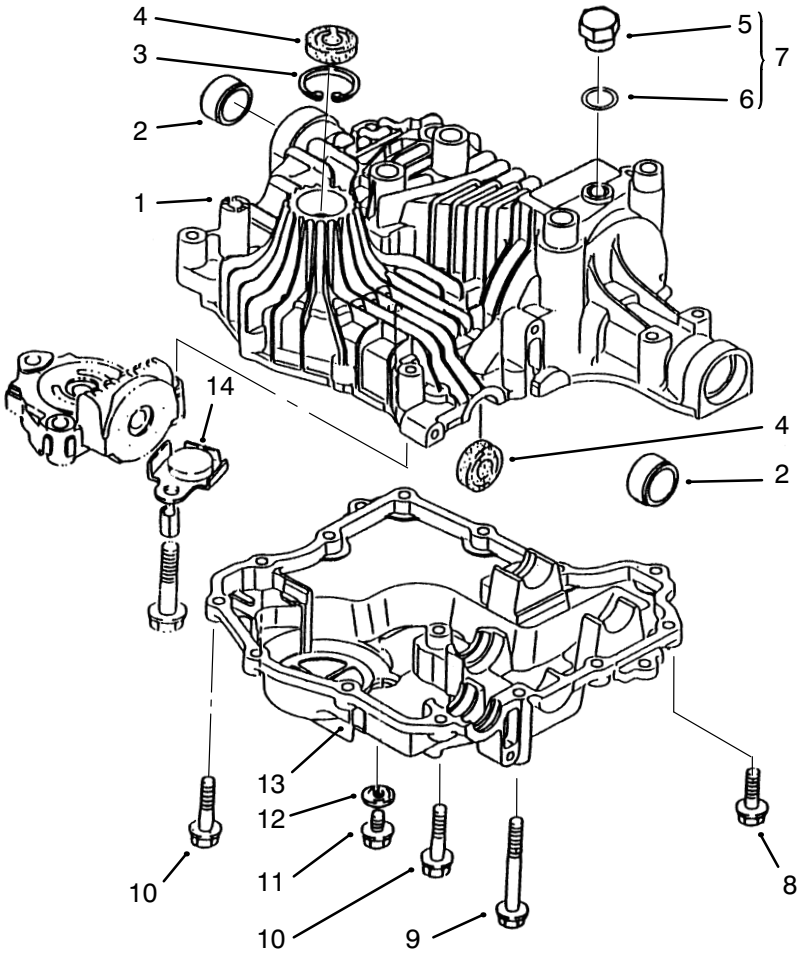
Sheet No.: 211

C–1969

Exhaust

Ref. No.	Part No.	Qty.	Description
1	24 041 02	2	Gasket–Exhaust
2	M–0829033	4	Stud M8x1.25x20

Ref. No.	Part No.	Qty.	Description



Sheet No.: 401

c–1860

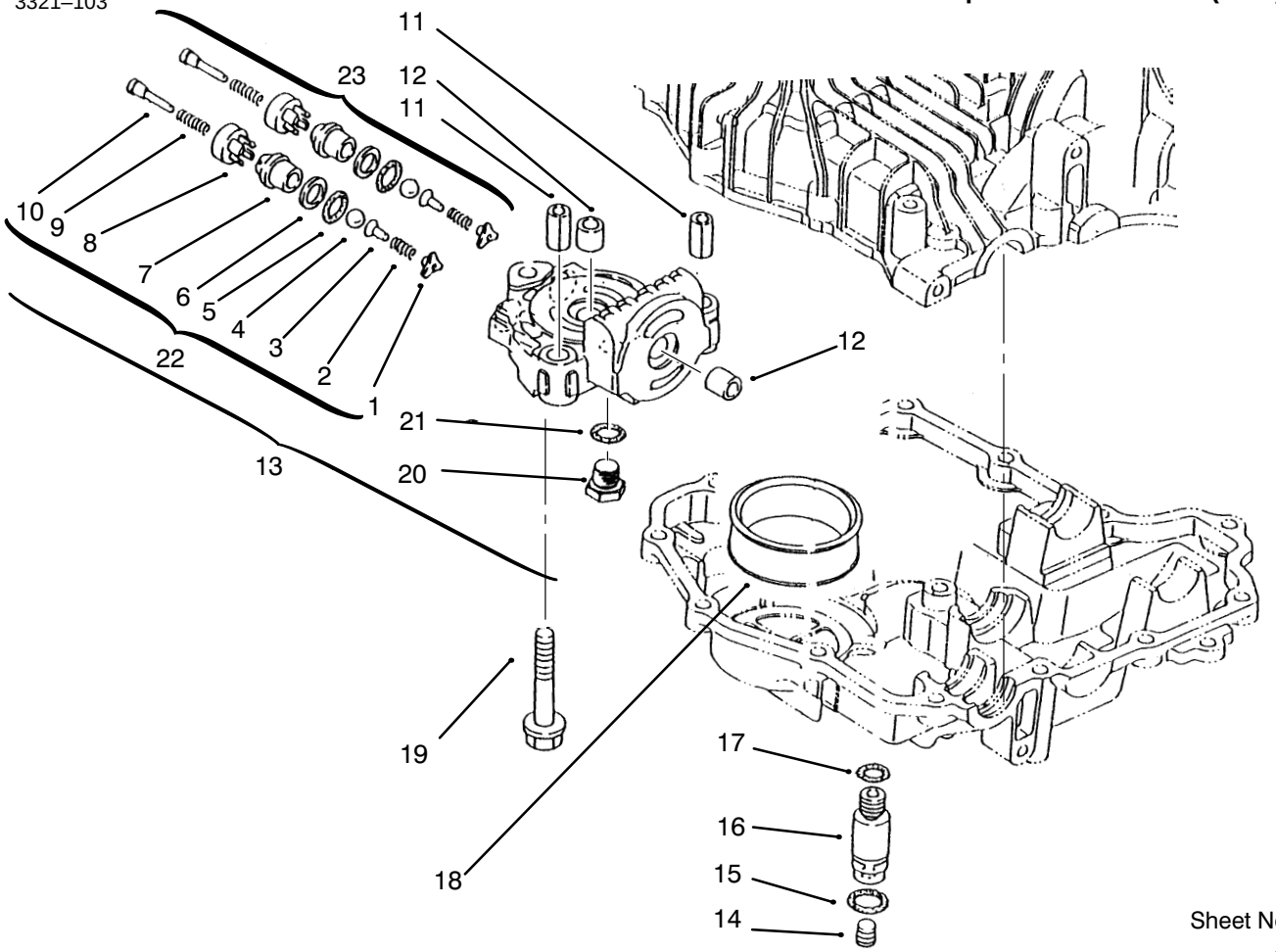
Transaxle Case

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	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

3321–103



Sheet No.: 402

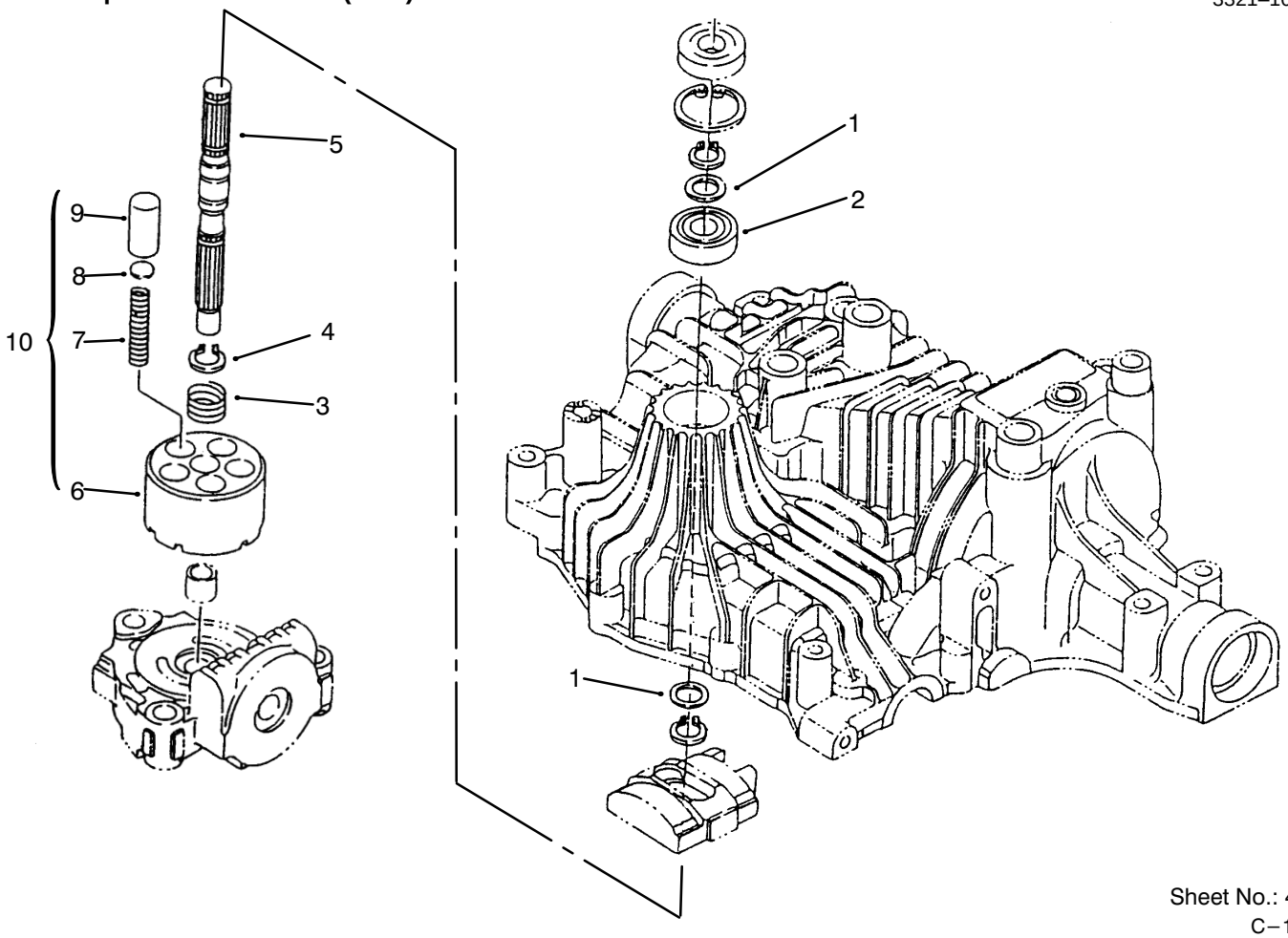
c–1877

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

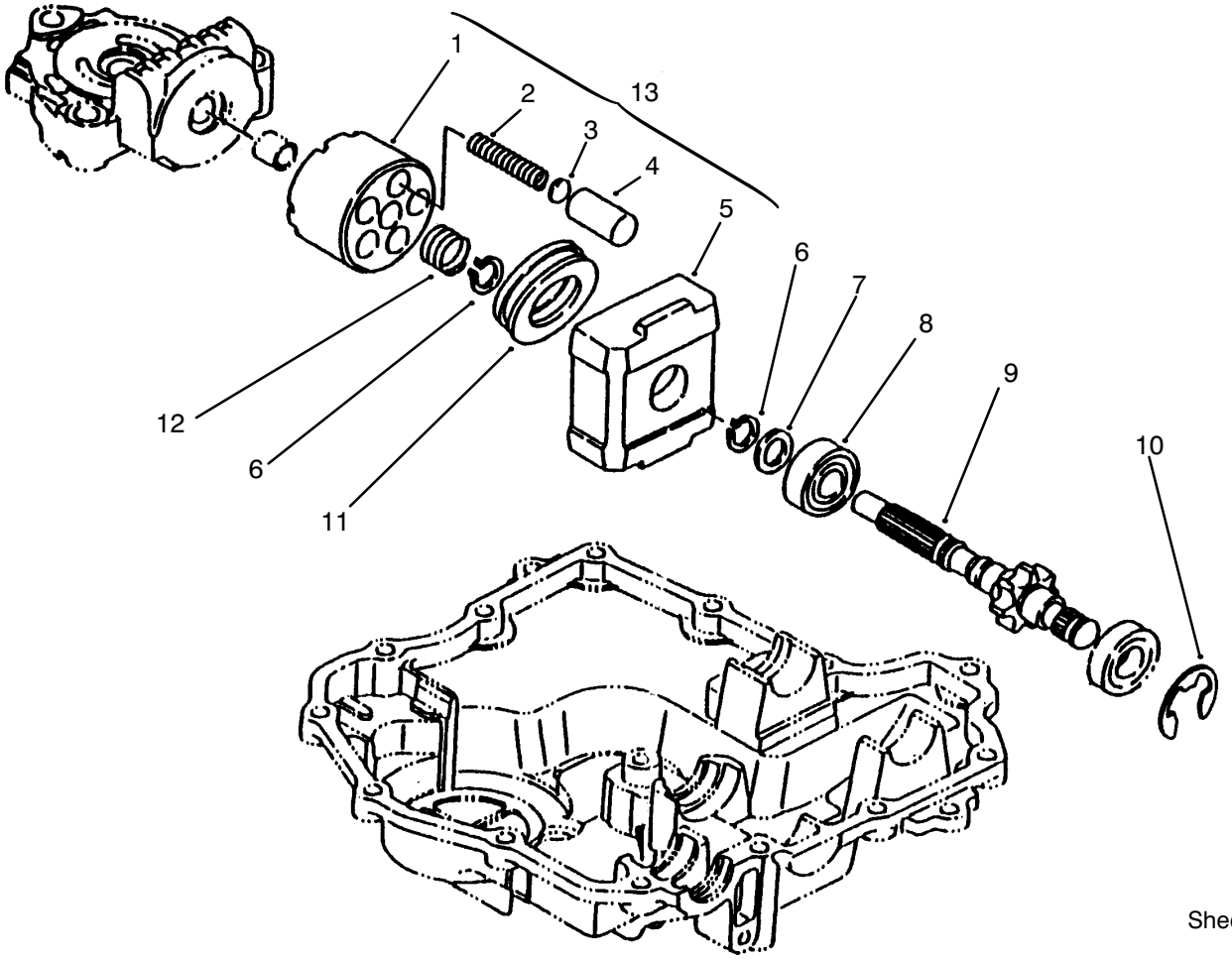
Pump Shaft

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

3321–103



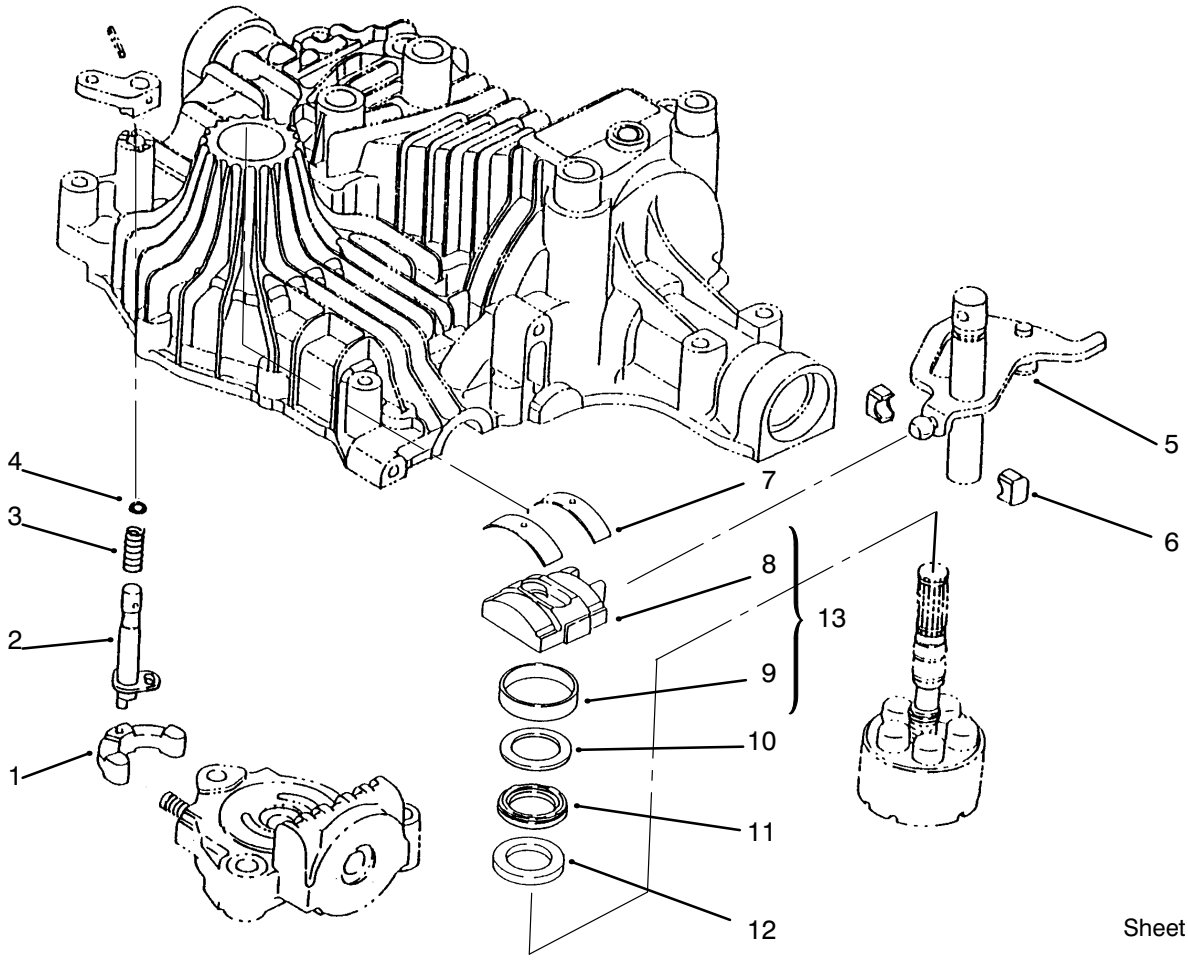
Sheet No.: 404

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 1–5

Ref. No.	Part No.	Qty.	Description



Sheet No.: 405

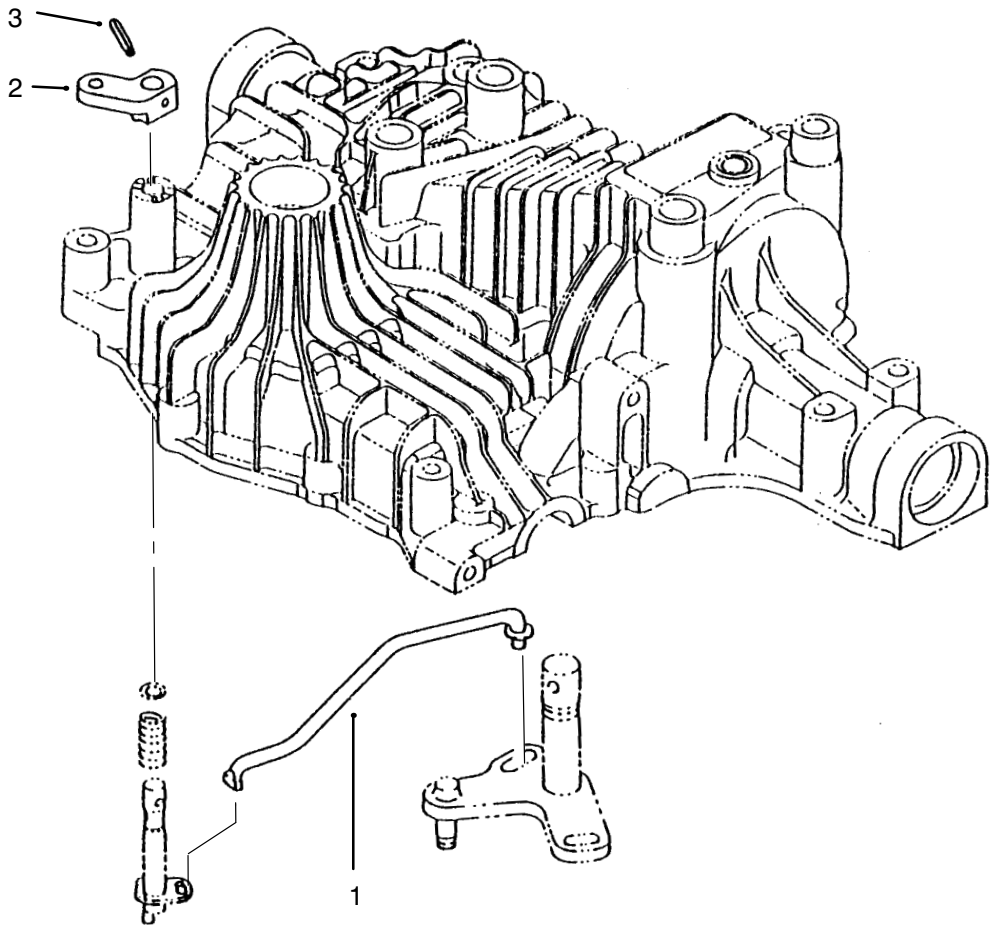
c–1863

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



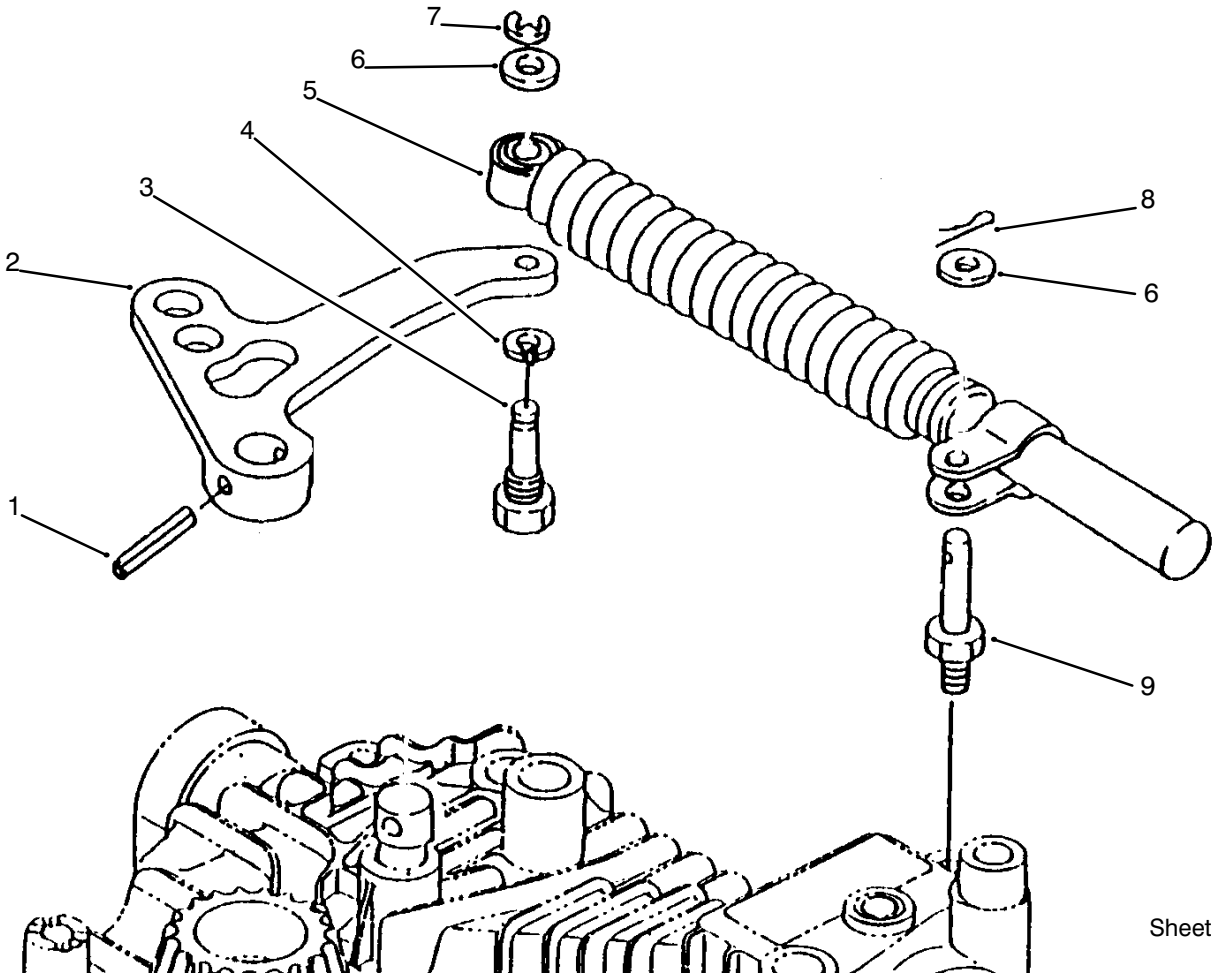
Sheet No.: 406

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



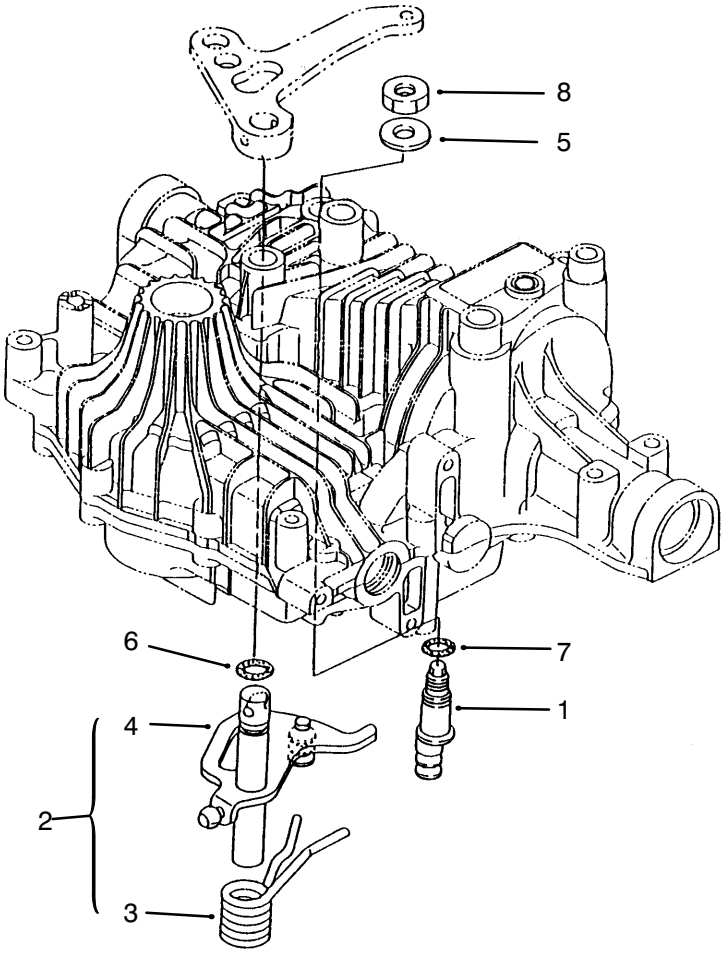
Sheet No.: 407

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

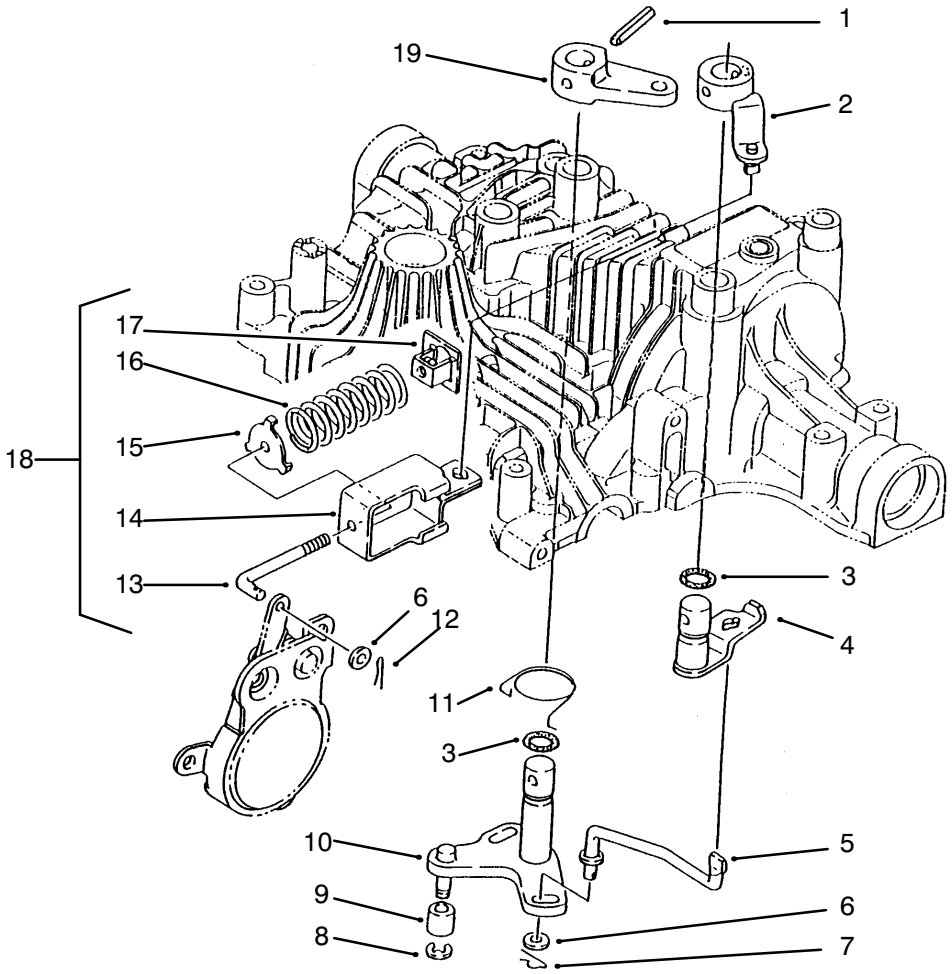
N-Centering

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

3321–103



Sheet No.: 409

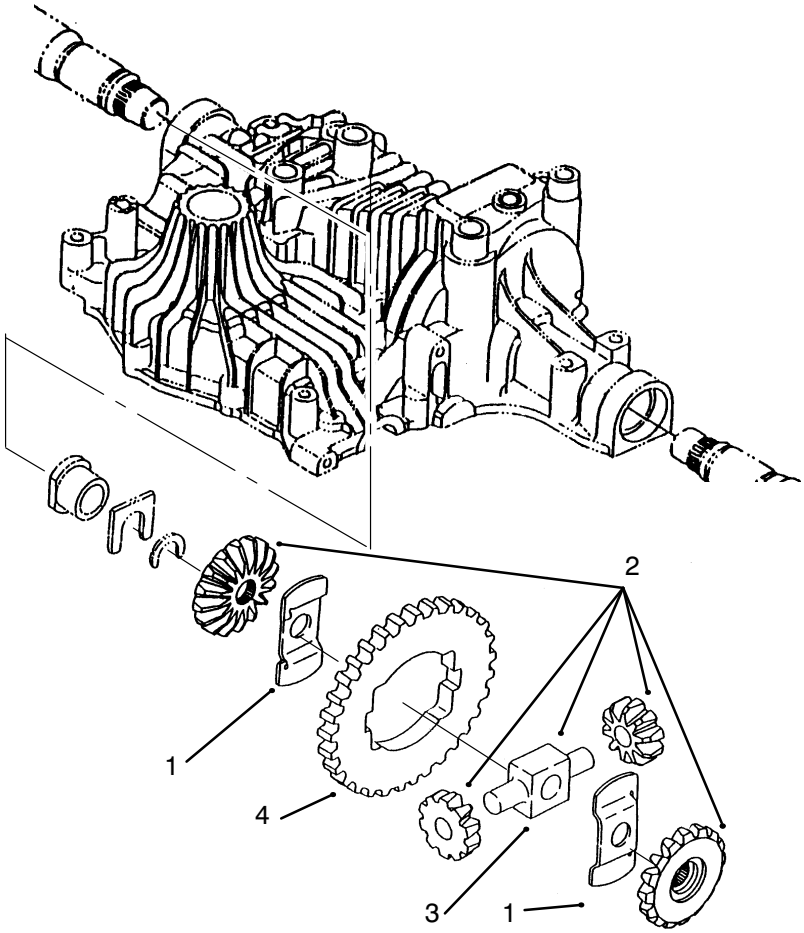
C–1867

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

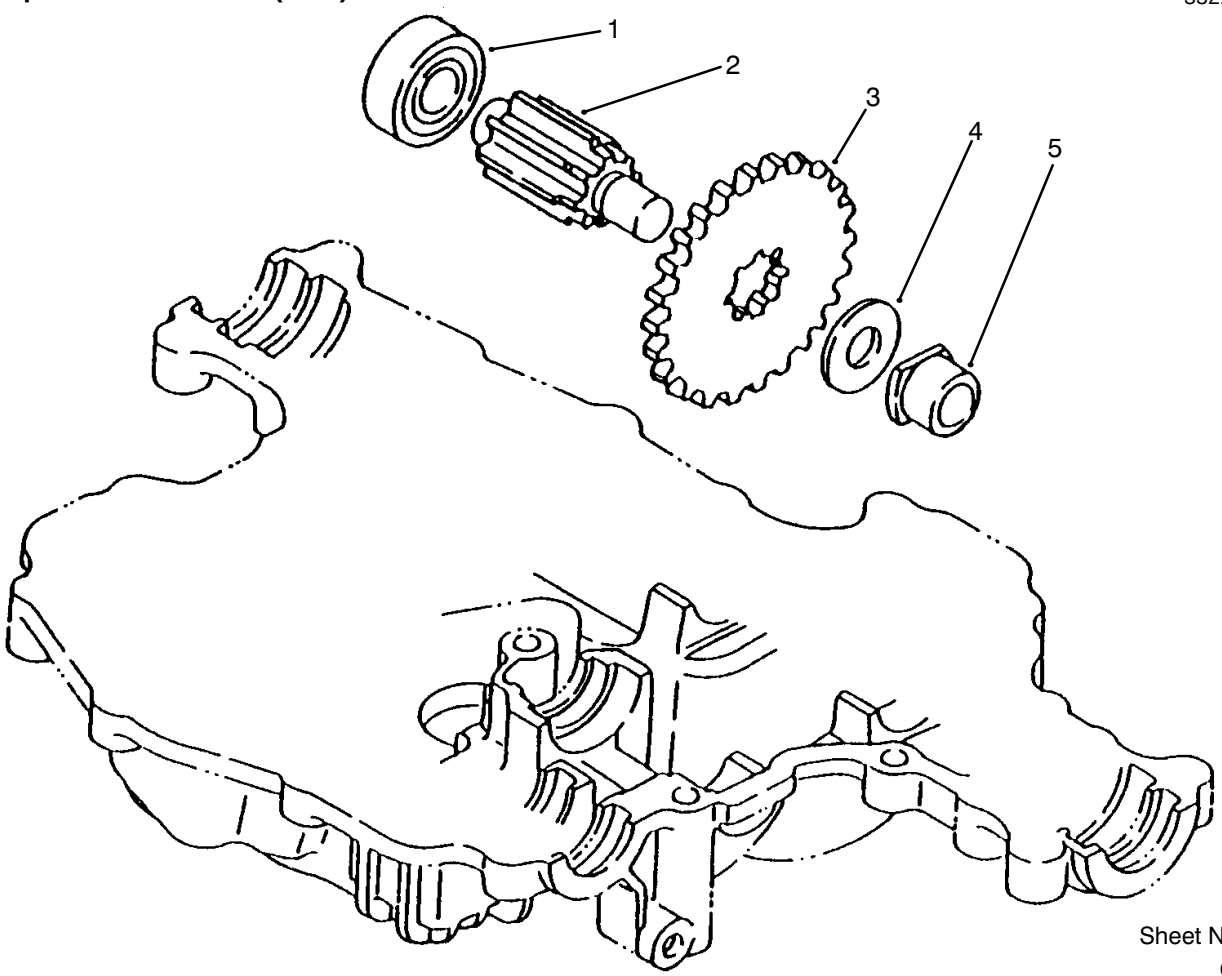
c–1868

Differential Gear

Ref. No.	Part No.	Qty.	Description
1	93–0444	2	Washer–Thrust
2	93–0440	1	Differential Gear ASM
3	93–0443	1	Shaft–Pinion
4	93–0445	1	Gear–Final

Ref. No.	Part No.	Qty.	Description

3321–103



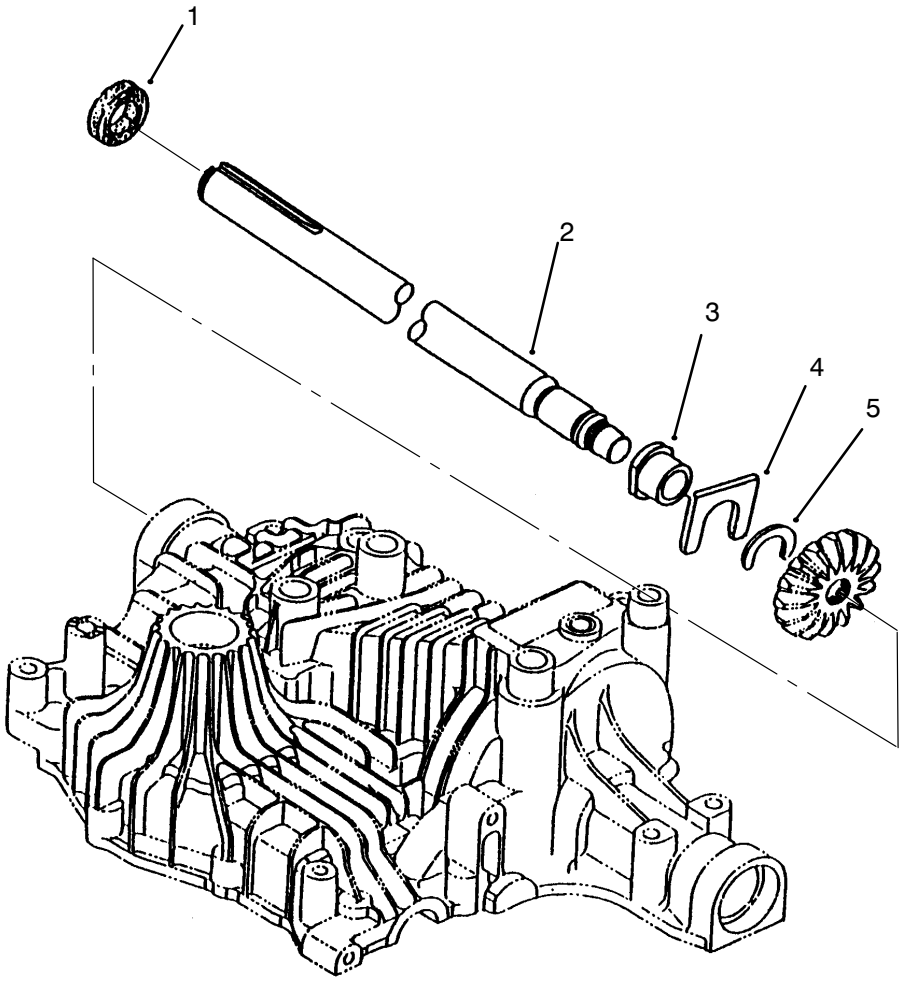
Sheet No.: 411

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

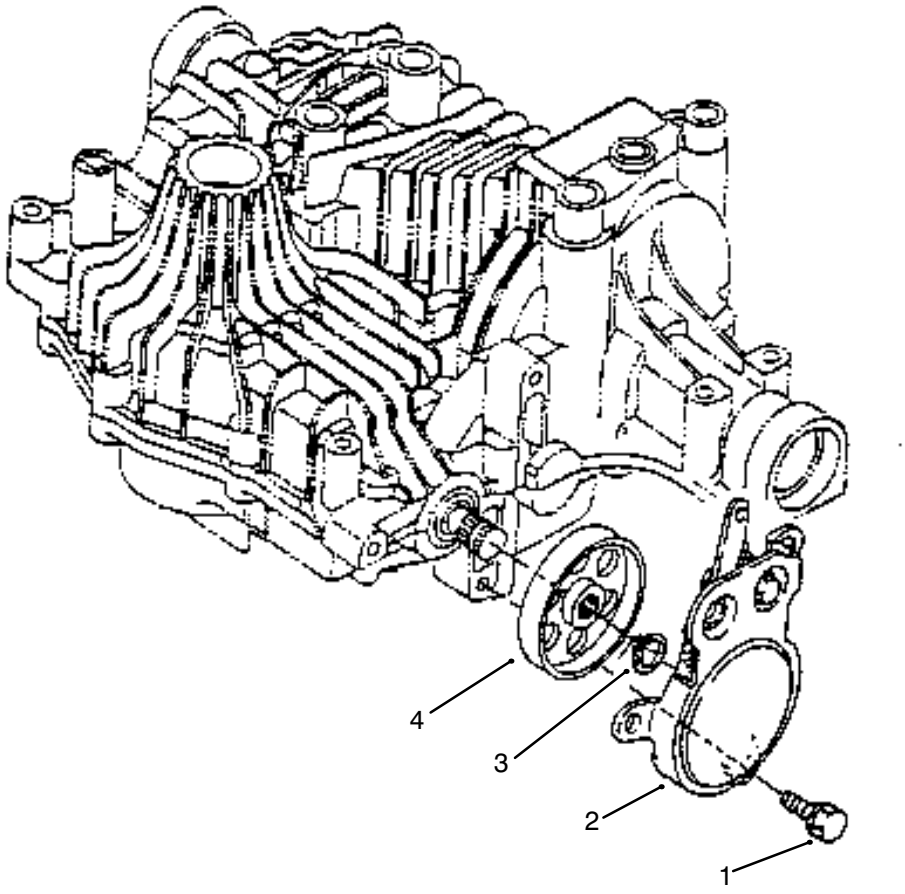
C–1870

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



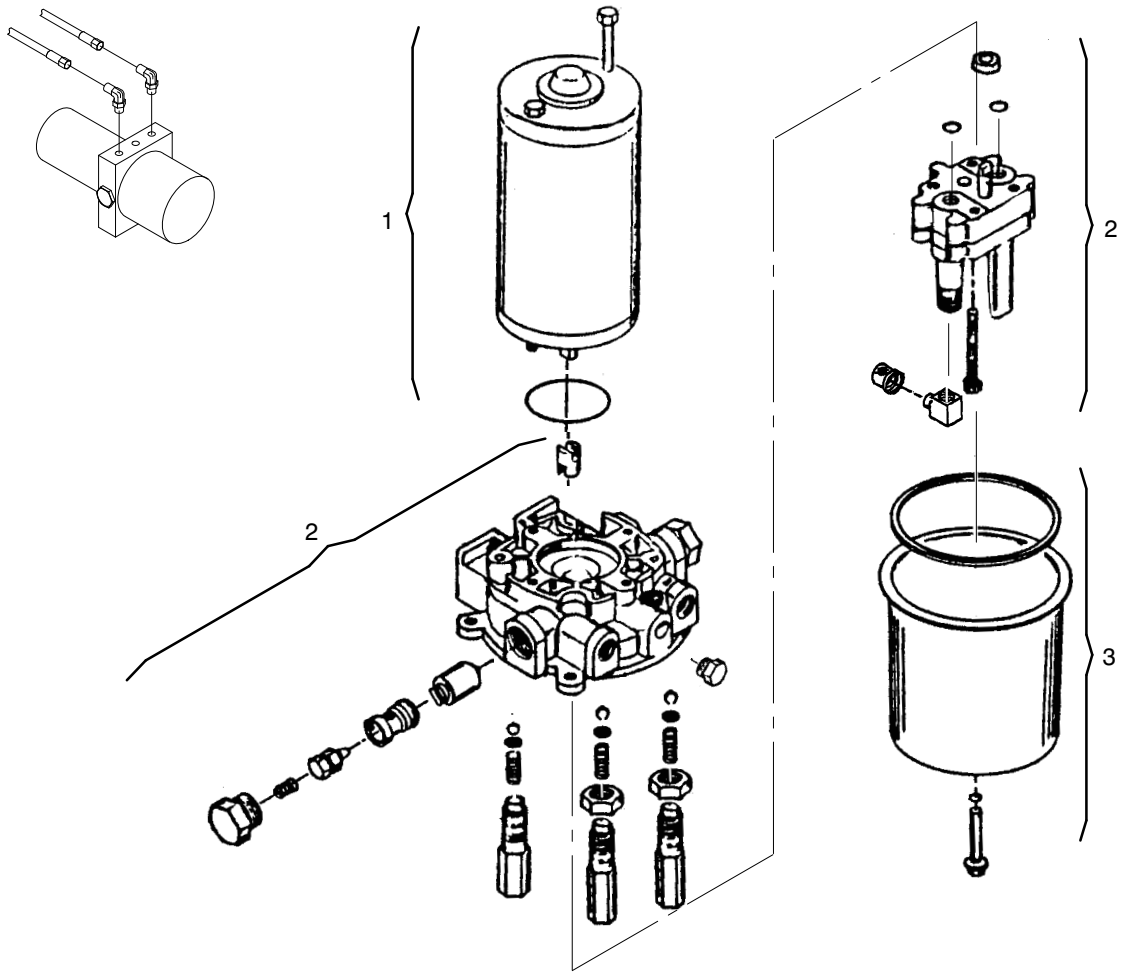
Sheet No.: 413
C–1871

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

3321–103



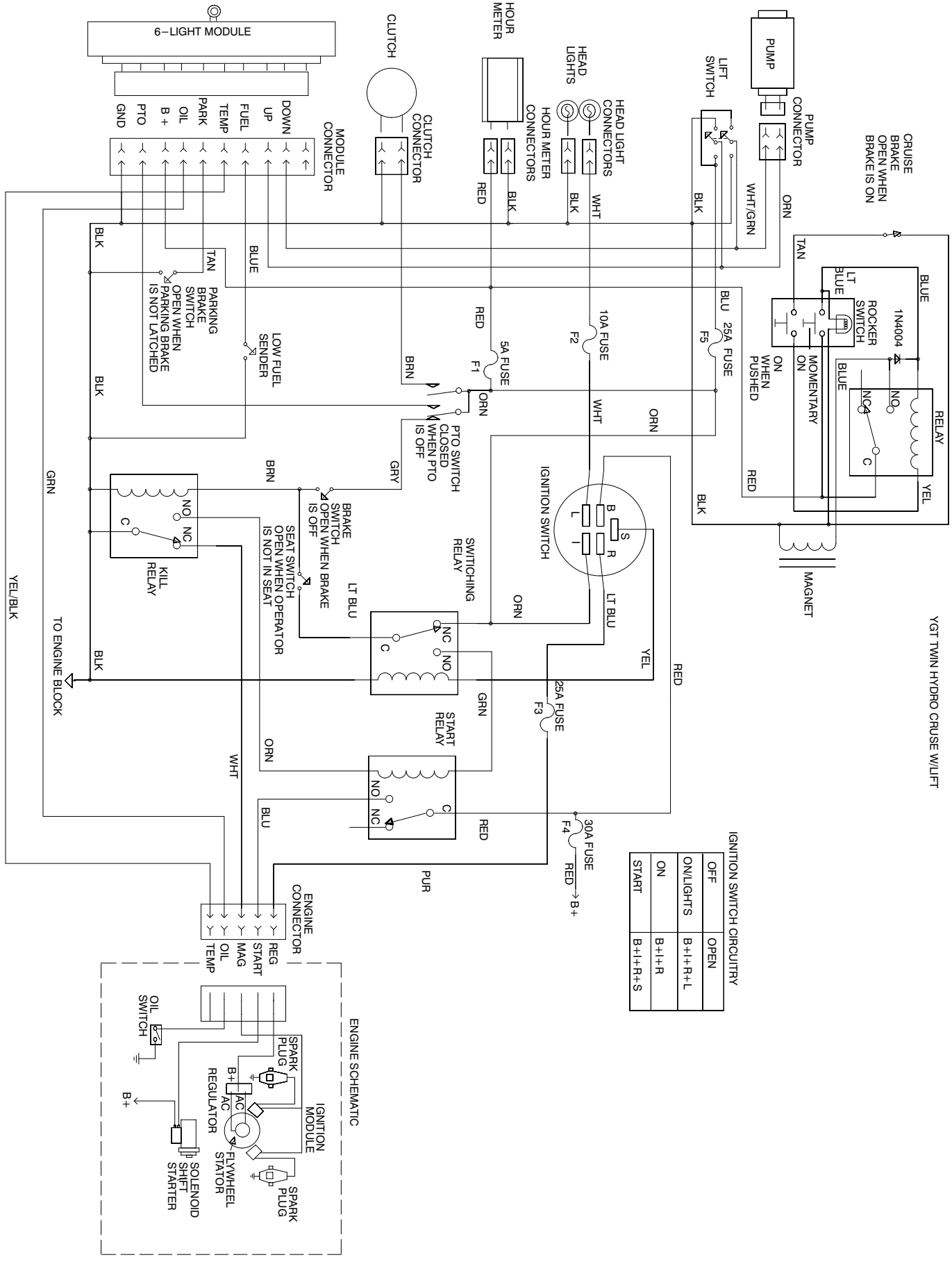
Sheet No.: xx

Pump Assembly

Ref. No.	Part No.	Qty.	Description
1	94–9724	1	Motor
2	94–9725	1	Adapter
3	94–9726	1	Reservoir
*	94–1700	1	Pump–Hydraulic (ref)

Ref. No.	Part No.	Qty.	Description

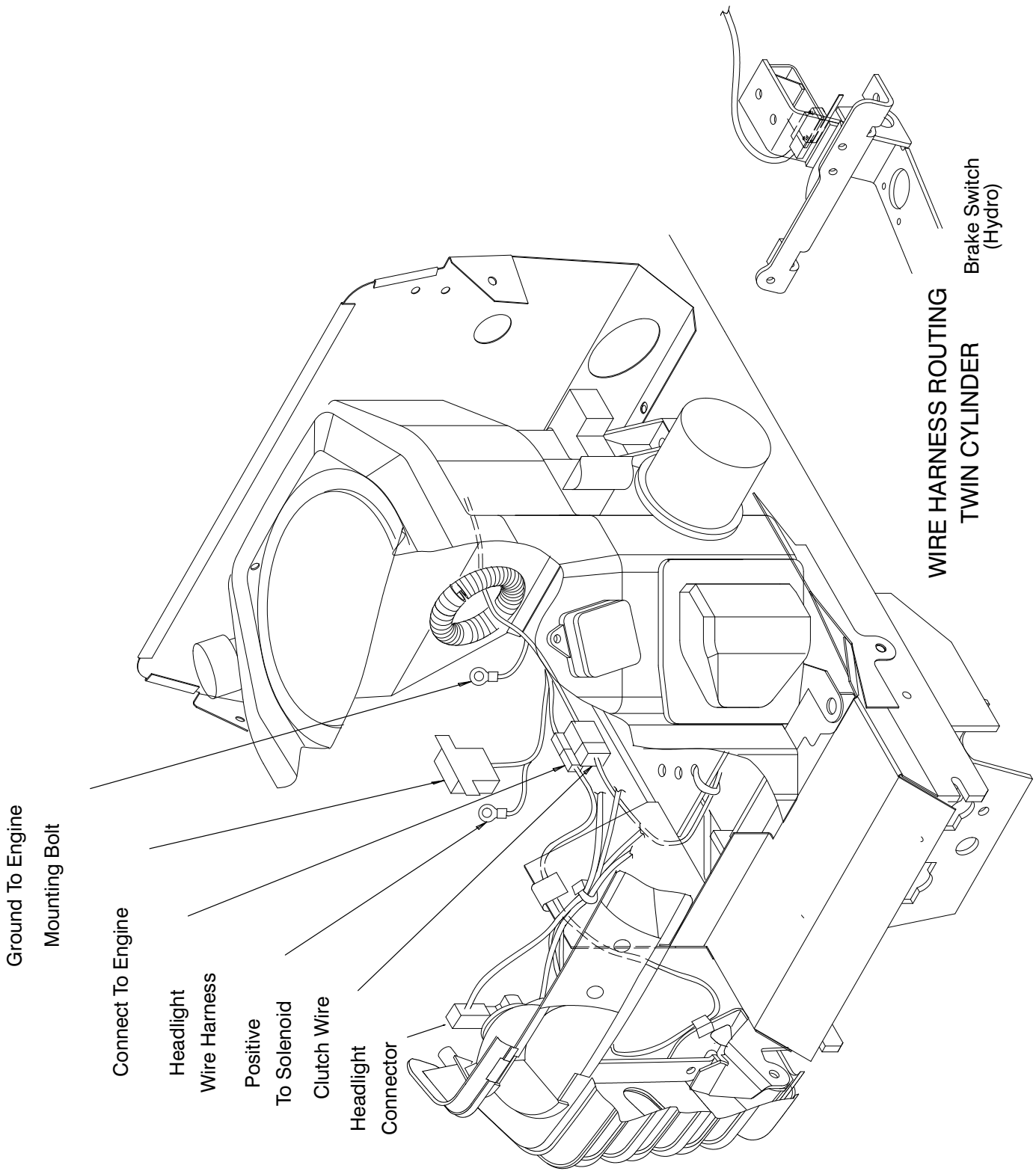
Electric Schematic Twin Cyl. Hydro Drive, Cruise w/Lift



IGNITION SWITCH CIRCUITRY

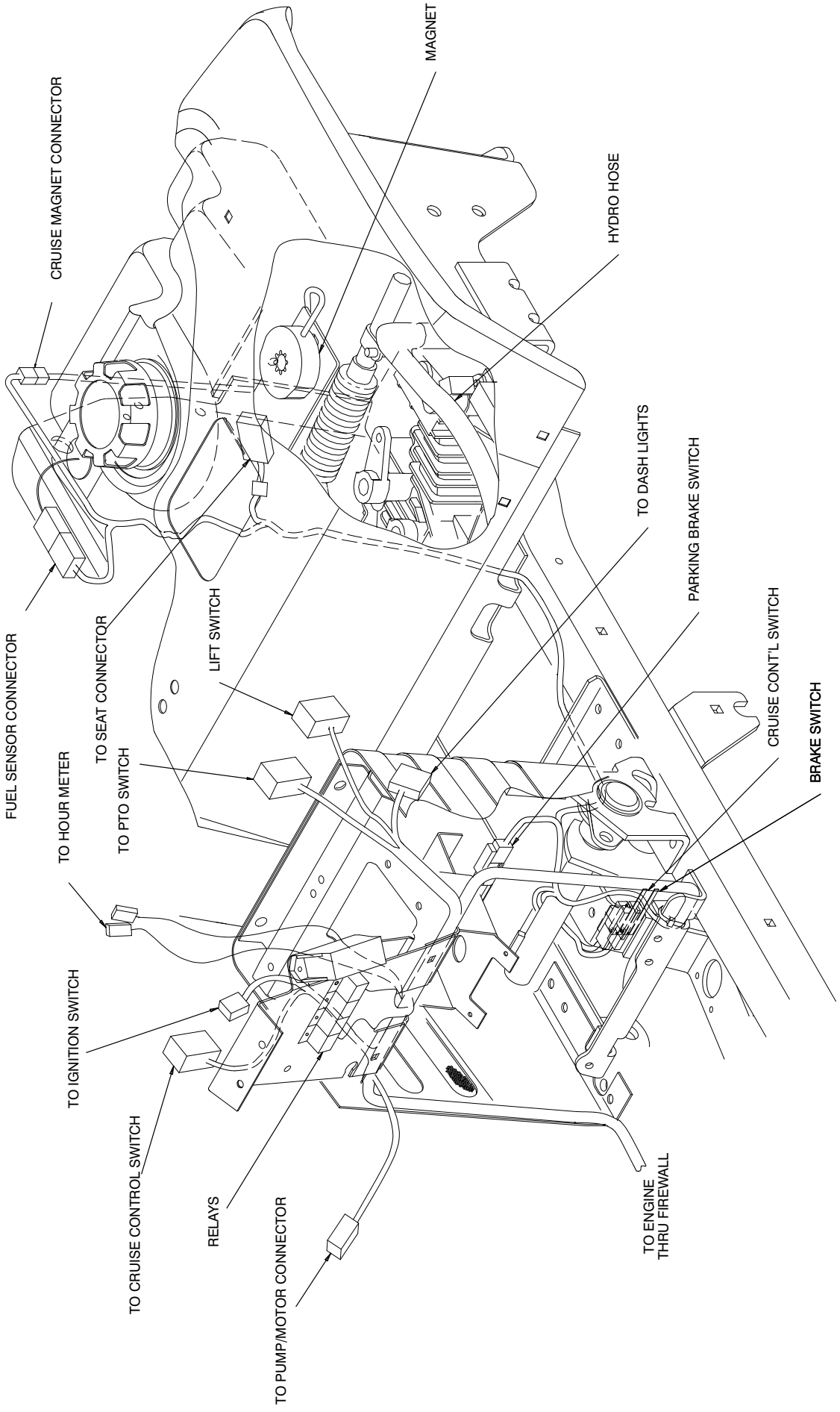
OFF	OPEN
ON/LIGHTS	B+I+R+L
ON	B+I+R
START	B+I+R+S

Wire Harness Routing — Twin Cylinder Engine



Sheet No.: 33

Wire Harness Routing — Hydro/wCruise



WIRE HARNESS ROUTING
TWIN CYLINDER HYDRO
W/CRUISE AND POWER LIFT

Sheet No.: 36