FORM NO. 3321–100

TORO®

Lawn & Garden Tractor

Model No. 72045 — 8900001 & Up

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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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

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 head flange
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

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HSH . . . . . hex socket head
HWHTF . . . . . hex washer head thread forming
HWH . . . . . hex washer head
INCL . . . . . includes
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.

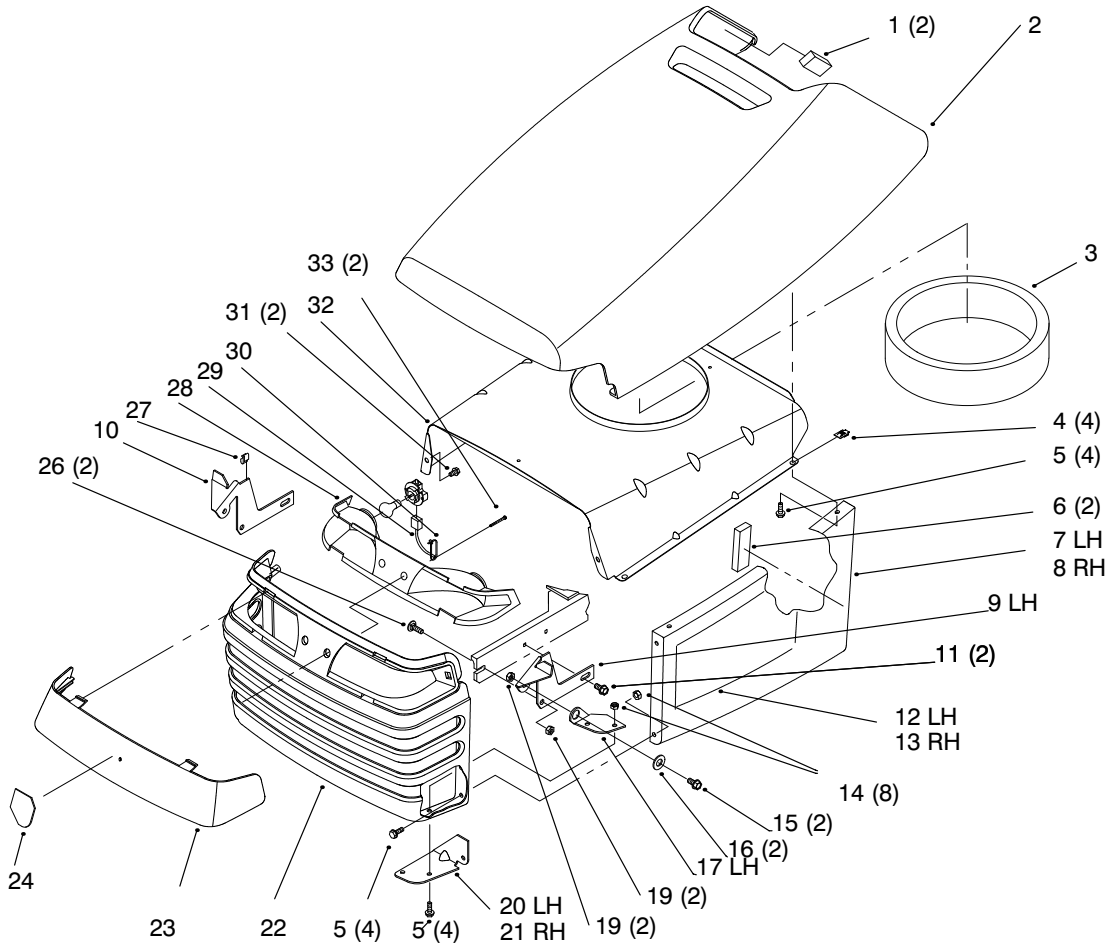
For example, a wheel assembly might be identified by reference number 6, the tire by 6:1, the valve by 6:2, and the wheel by 6:3. When you order the assembly identified by reference number 6, you receive all parts identified by reference numbers 6:1, 6:2, and 6:3. However, you may also order any part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

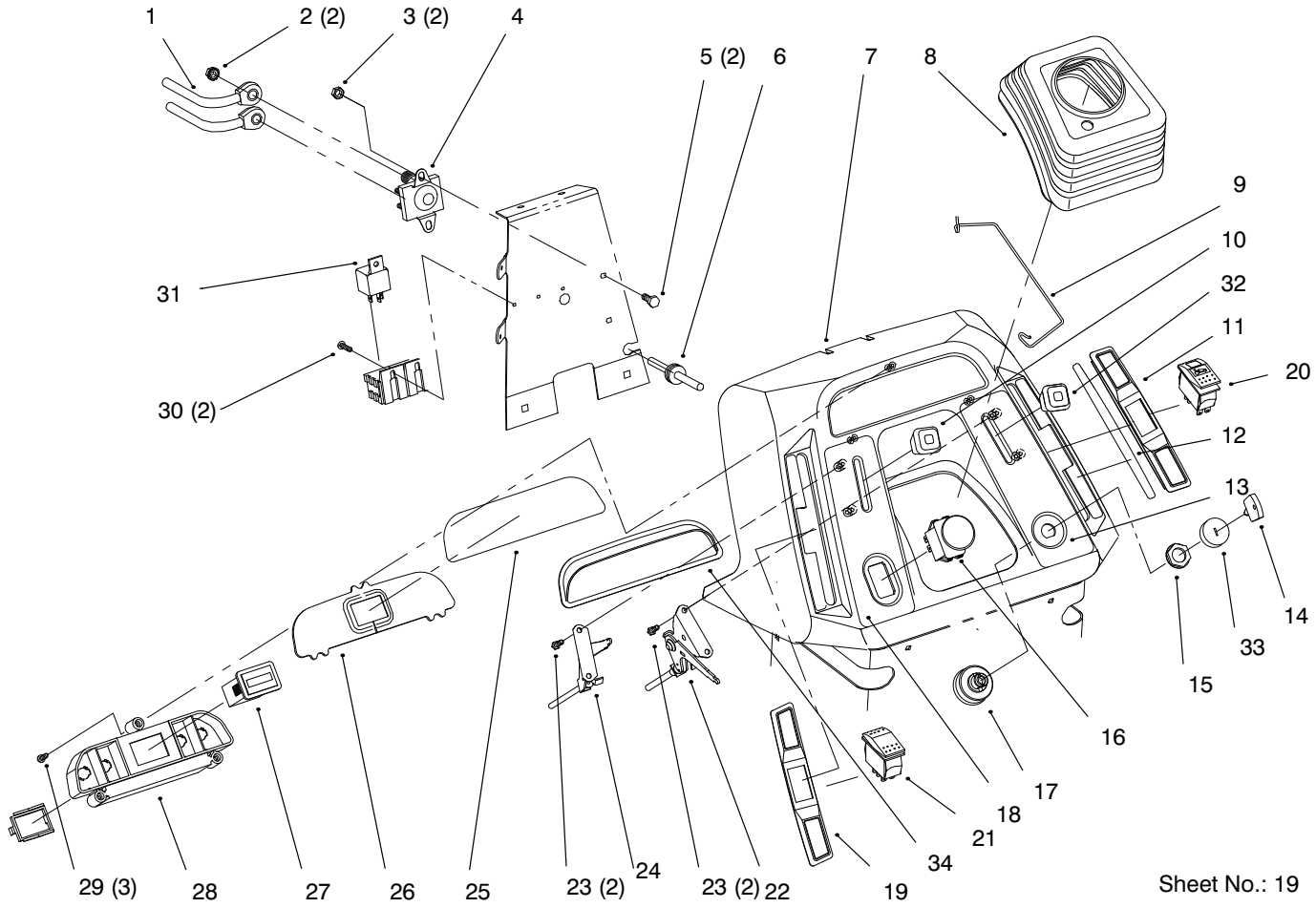


Sheet No.: 2

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

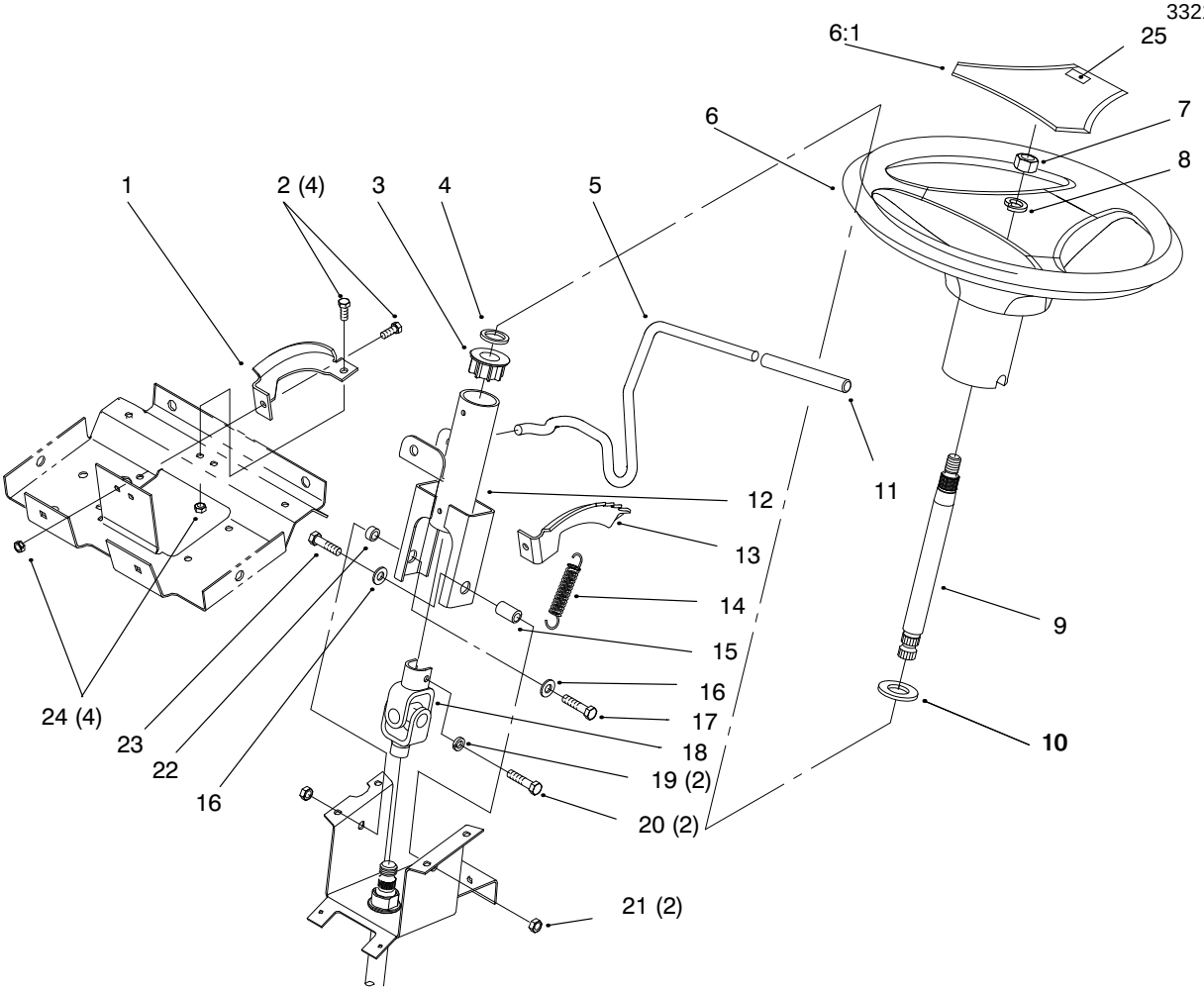
Ref. No.	Part No.	Qty.	Description
26	3230–1	2	Bolt–CARR
27	702366	1	Clip–Wire Retainer
28	88–3970	1	Reflector–Lamp
29	88–4320	1	Harness–Wire
31	46–8093	2	Screw–TAP
32	92–6914–03	1	Baffle–Hood Upper
33	32144–32	2	Screw–Plastic



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	94–9779	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

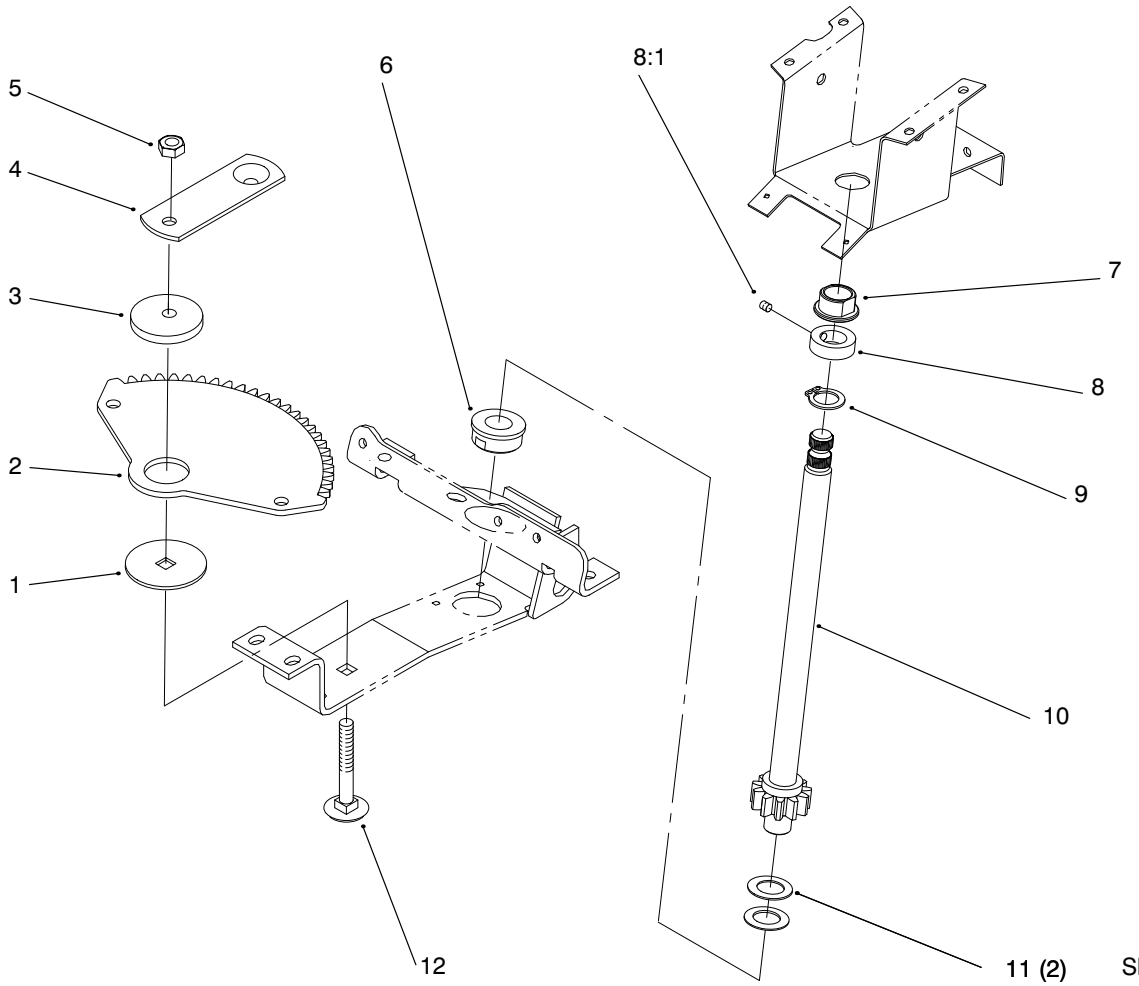
Ref. No.	Part No.	Qty.	Description
29	94–6961	3	Screw
30	32144–8	2	Screw–PPH
31	116397	2	Relay



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	94–3500	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	48–7730	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

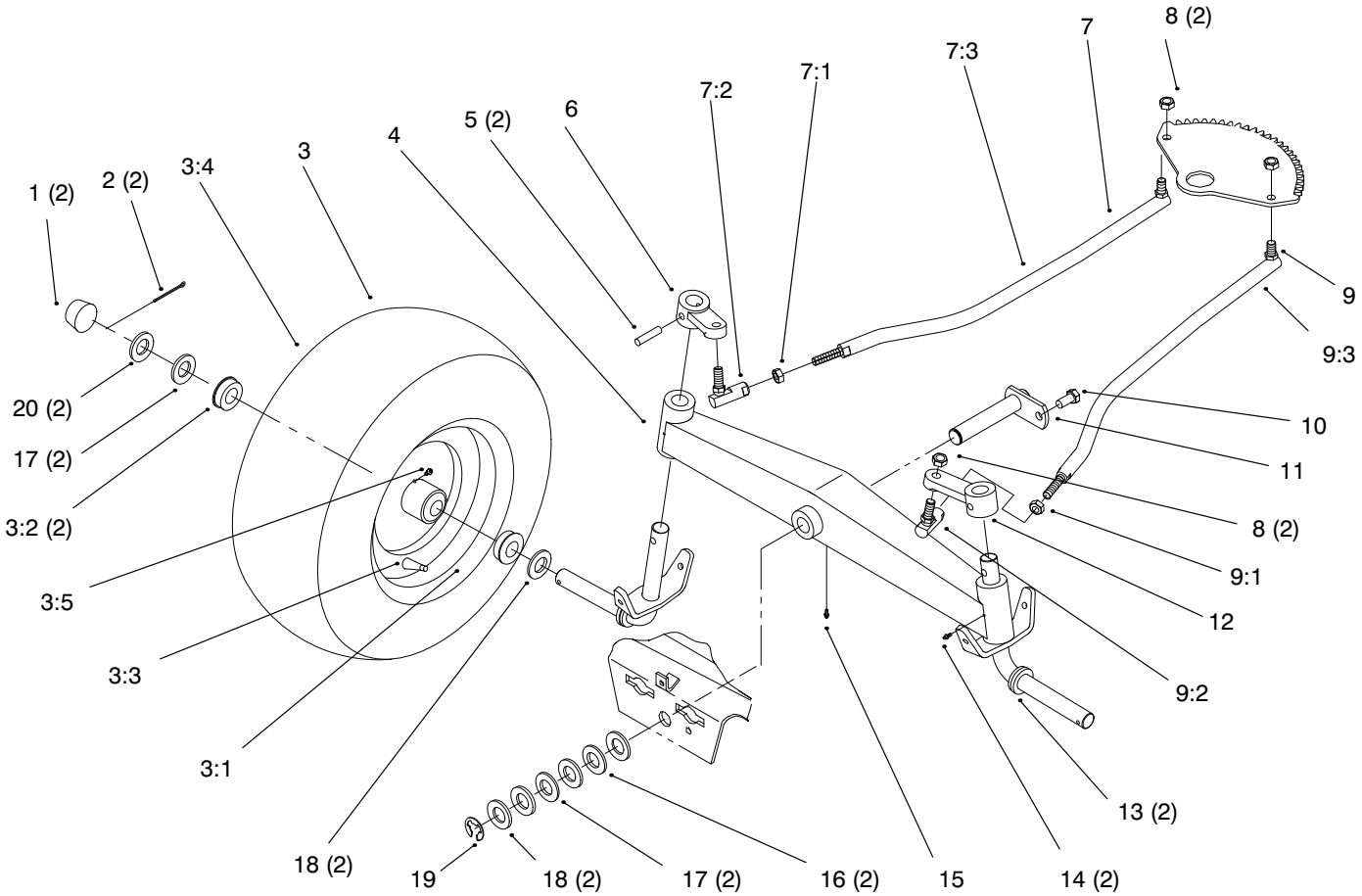


Sheet No.: 8

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



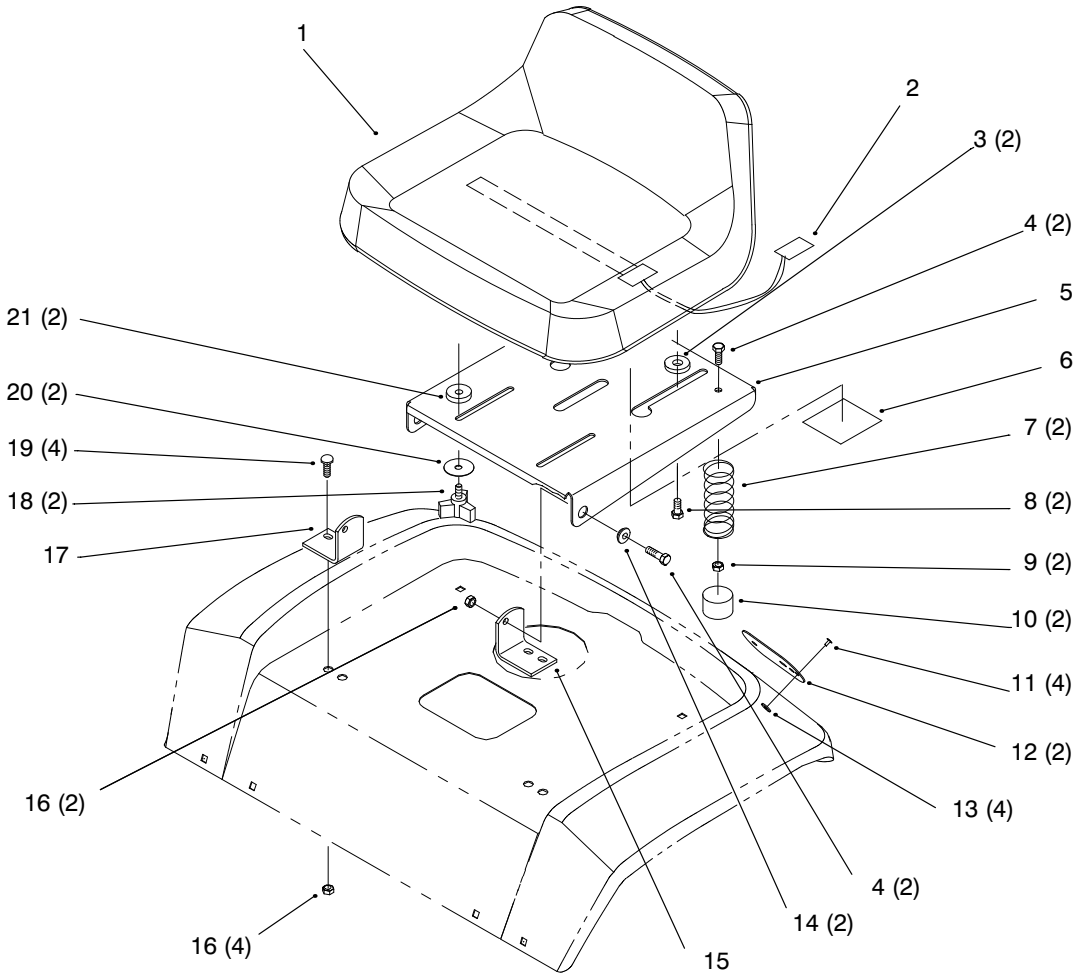
Sheet No.: 4

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

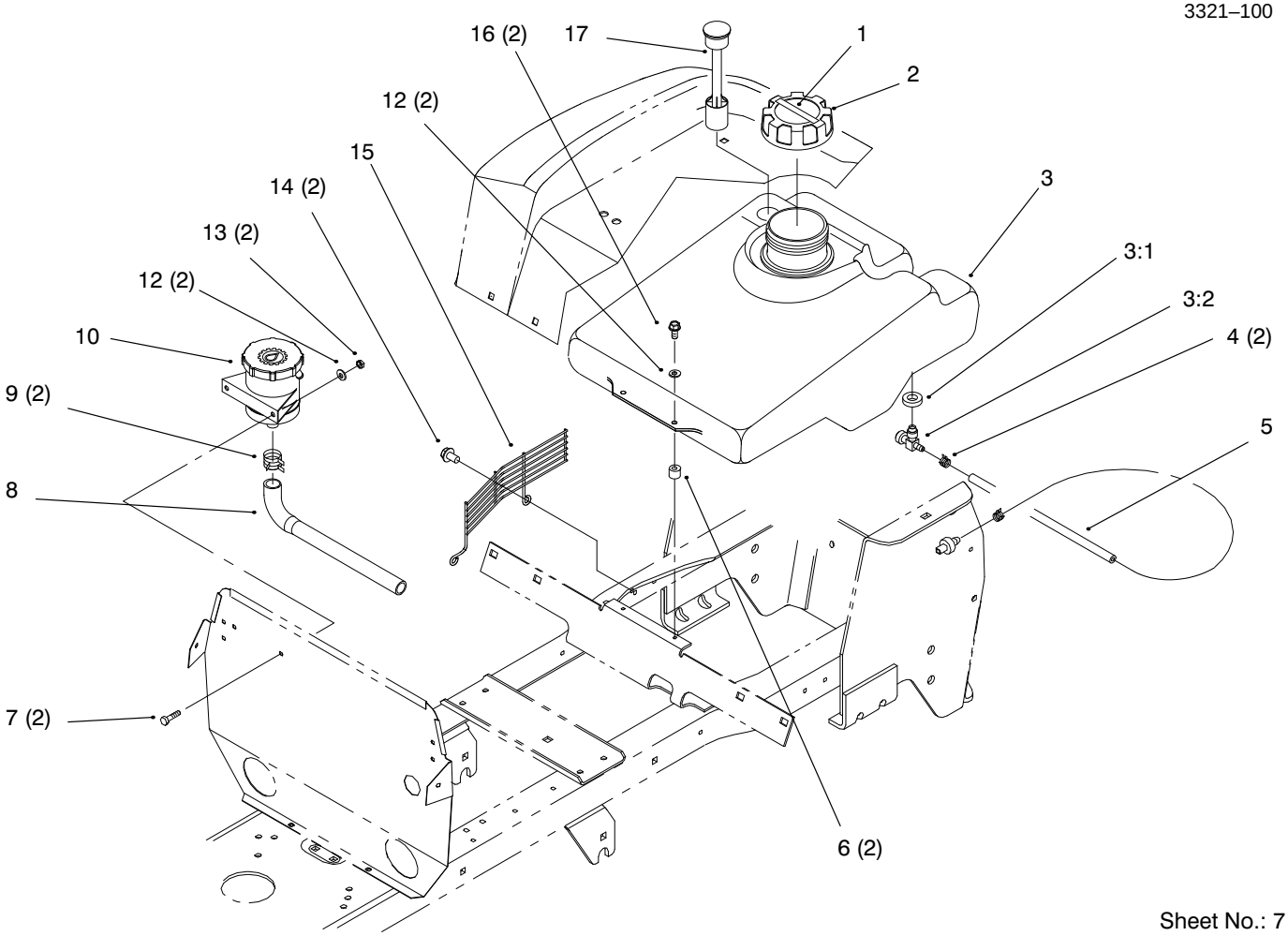


Sheet No.: 18

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

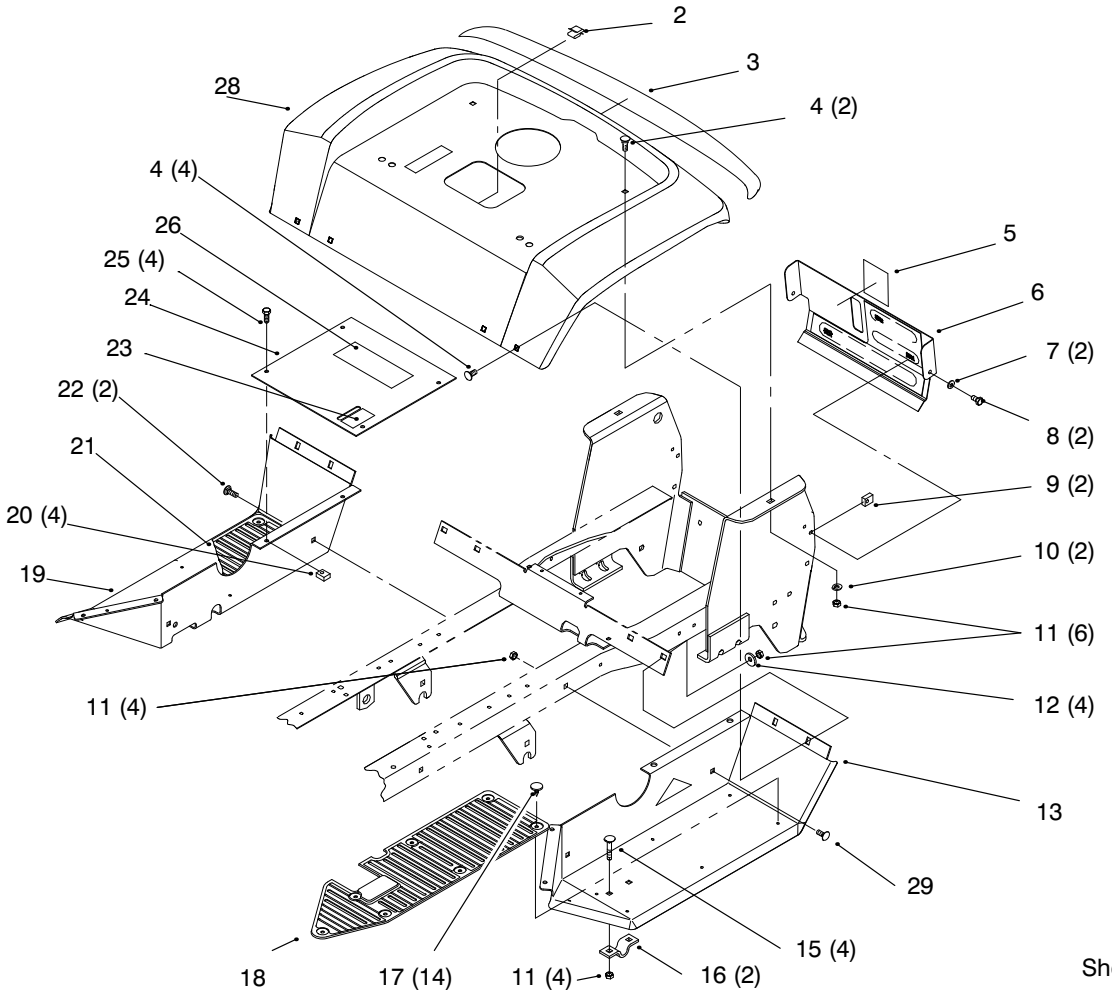


Sheet No.: 7

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	92–6754	1	Hose–Fuel Line
16	32144–4	2	Screw–TAP

Ref. No.	Part No.	Qty.	Description

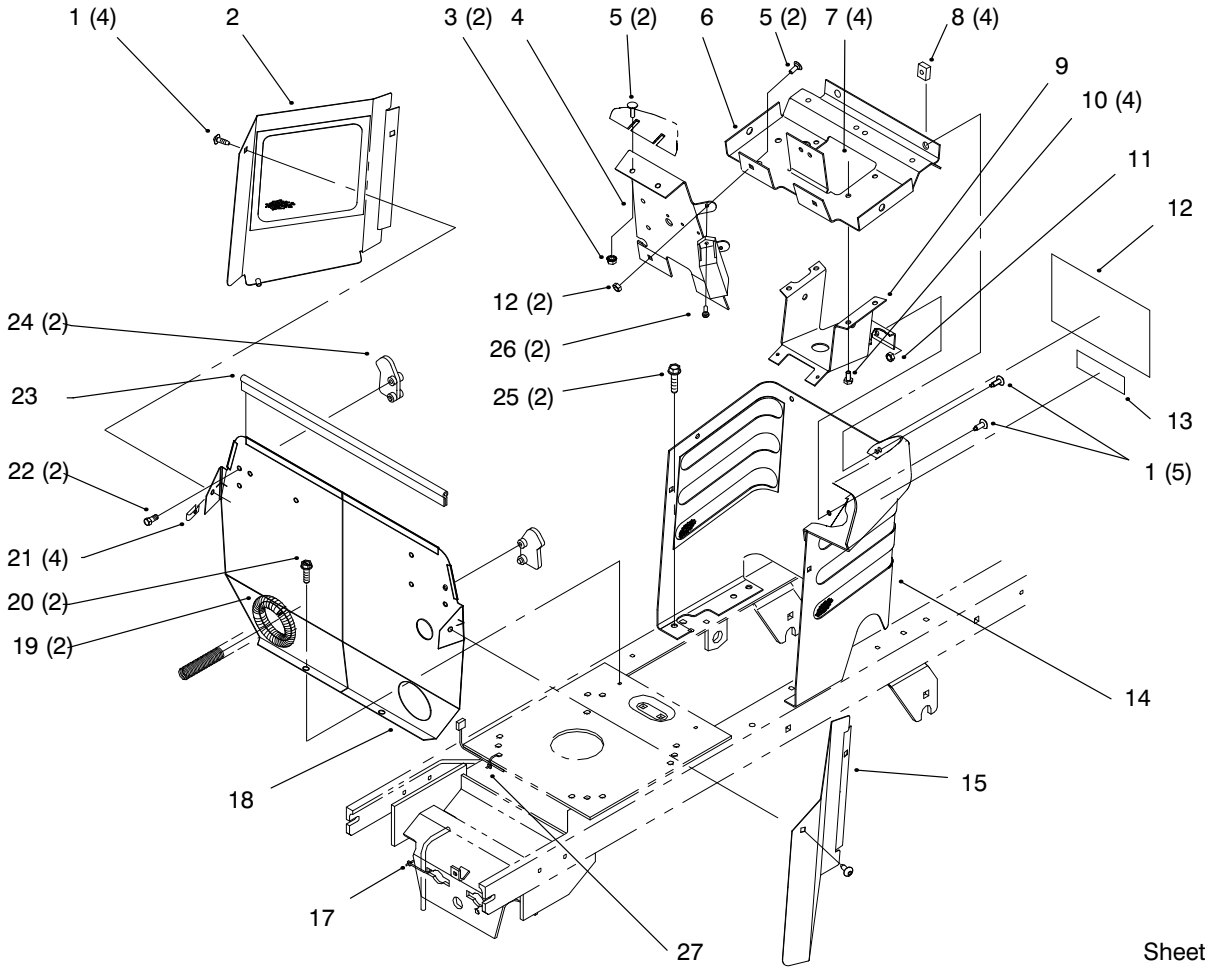


Sheet No.: 17

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
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	3230–2	1	Screw–CARR

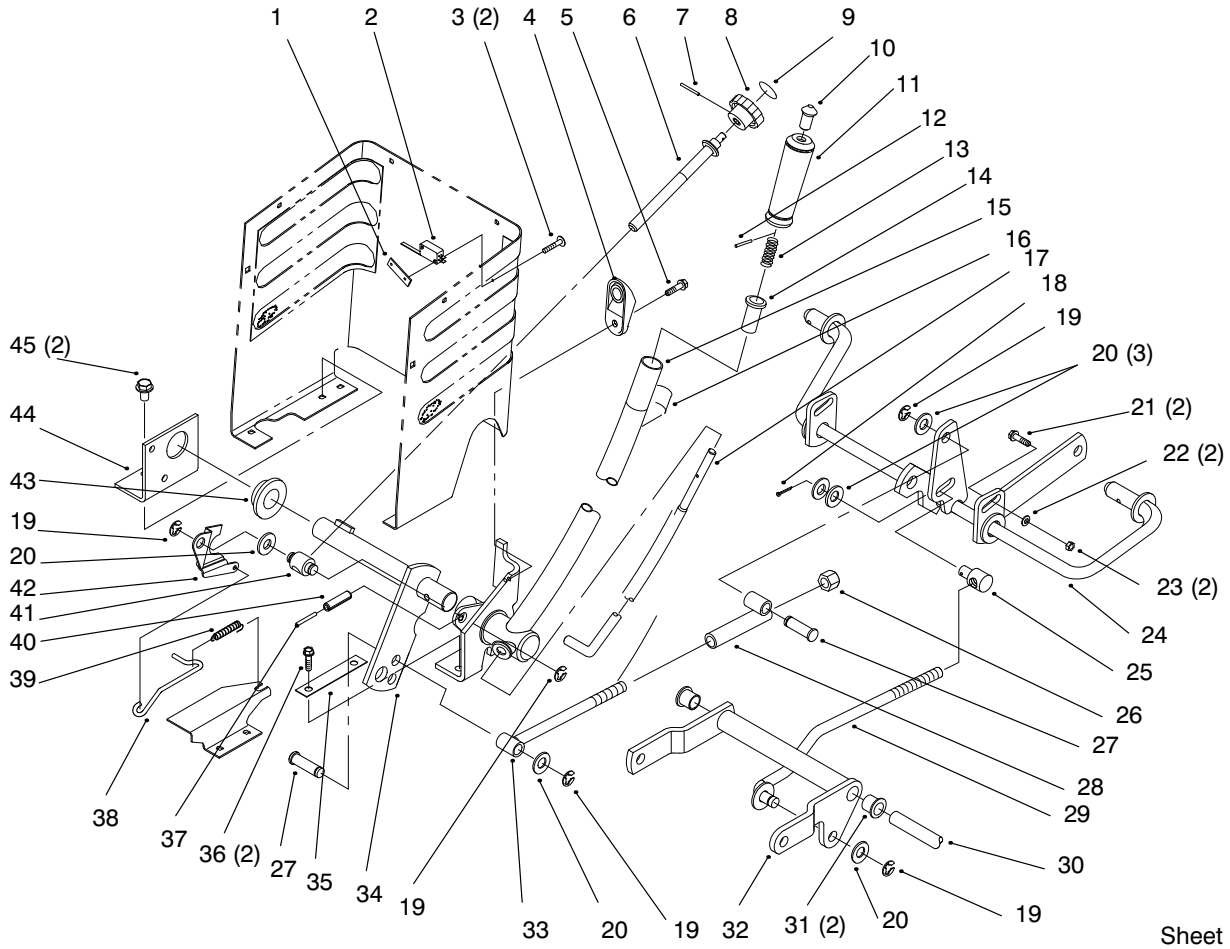


Sheet No.: 10

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	93–0301	1	Decal–Slope/Park Brake
13	83–6620	1	Decal–Instruction
14	93–0485–03	1	Hoodstand w/Decals
15	92–6936–03	1	Cover–Side LH
16	95–0803	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
23	93–1131	1	Trim–Seal
24	92–6960	2	Latch–Hood
25	32144–14	2	Screw–HWH
26	32144–8	2	Screw–PPH

Ref. No.	Part No.	Qty.	Description

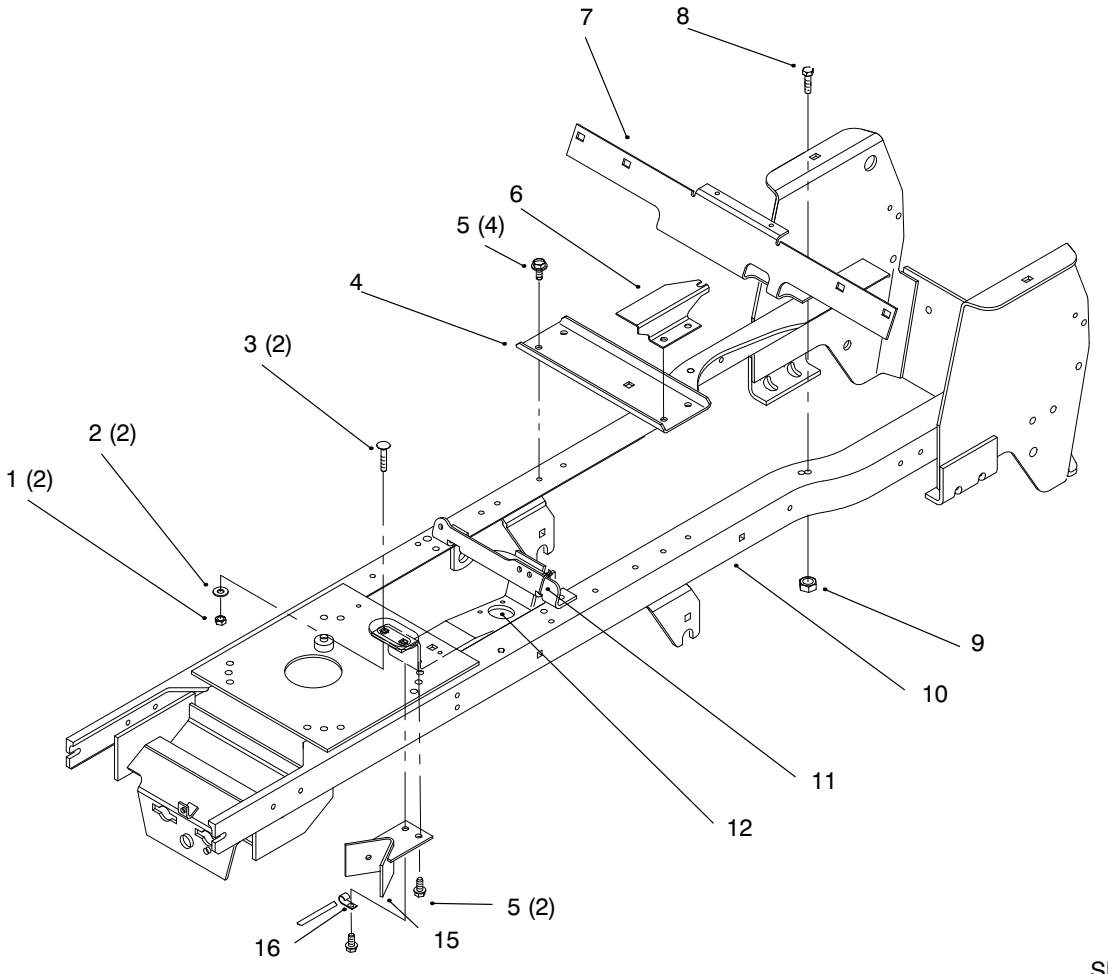


Sheet No.: 11

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
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
24	79–3401–03	1	Gage Shaft
25	8870	1	Trunnion
26	3296–23	1	Nut–Lock

Ref. No.	Part No.	Qty.	Description
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

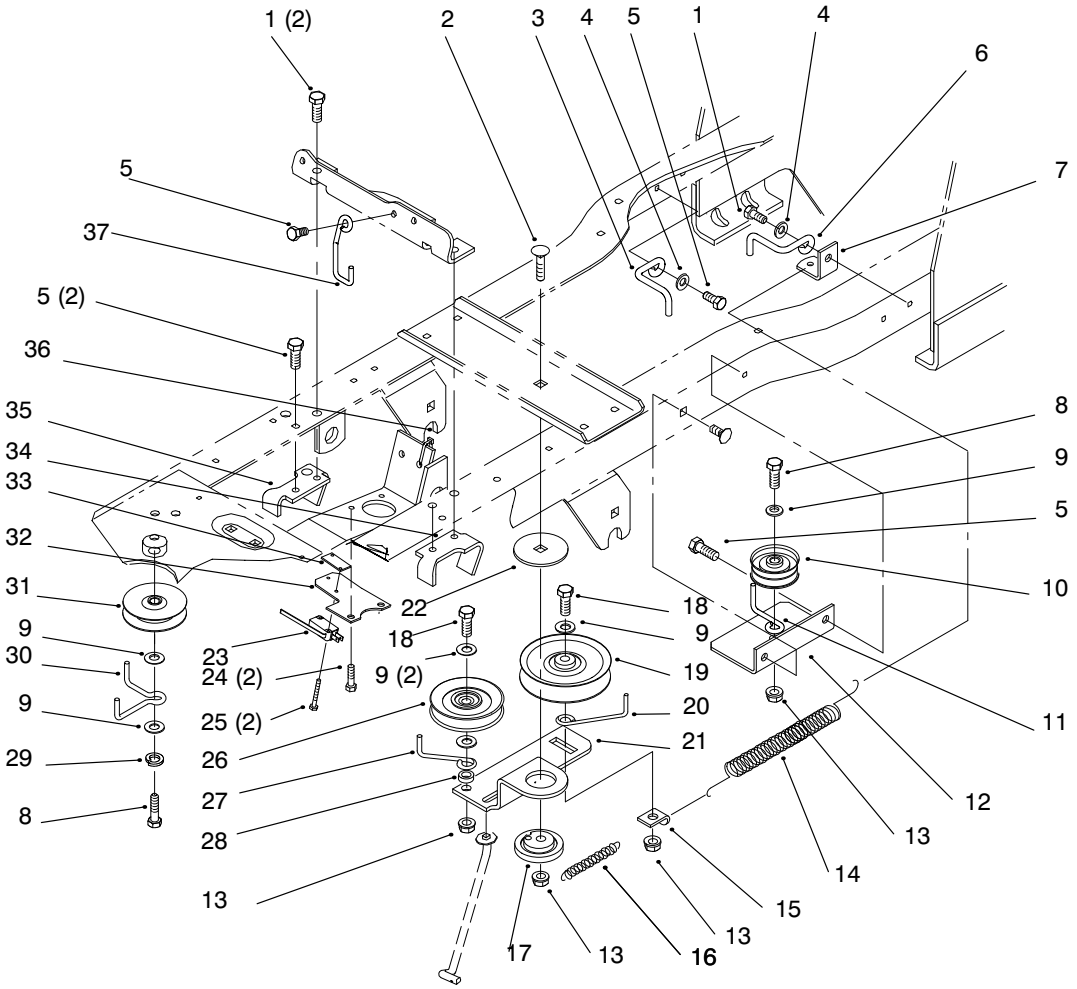


Sheet No.: 14

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
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

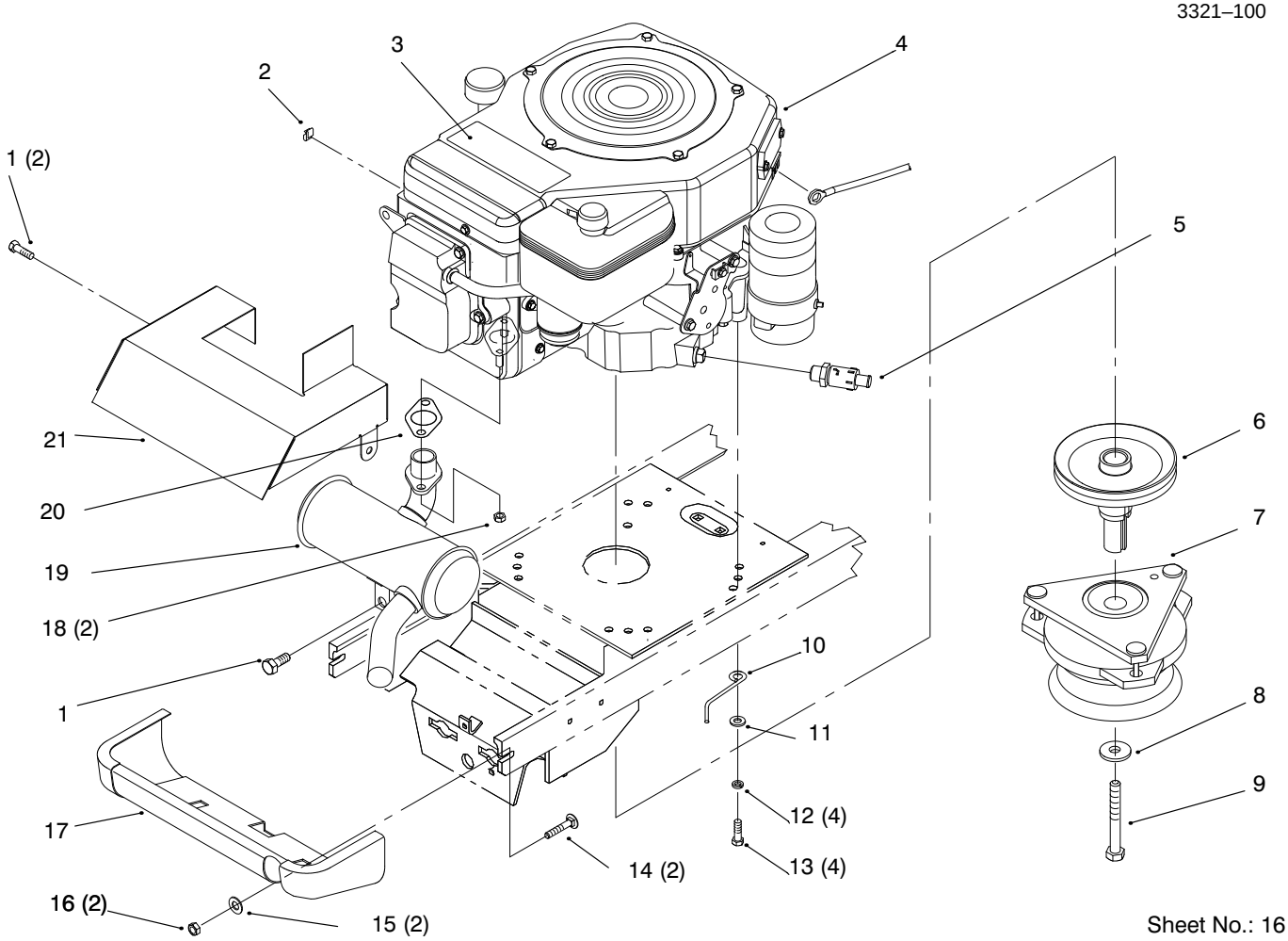


Sheet No.: 21

Gear Drive Components

Ref. No.	Part No.	Qty.	Description
1	32144–70	3	Screw–TAP
2	3231–25	1	Screw–CARR
3	92–7001	1	Guide–Belt RH
4	3256–23	2	Washer–Flat
5	32144–14	5	Screw–HWH
6	92–7002	1	Guide–Belt LH
7	92–6891–03	1	Bracket–Idler Spring
8	323–9	2	Screw–HH
9	3256–24	6	Washer–Flat
10	607978	1	Pulley–Idler
11	93–0549	1	Guide–Belt
12	92–6894–03	1	Bracket–Idler Rear
13	3296–39	4	Nut–Lock
14	79–7530	1	Spring–Extension
15	2534	1	Clip–Spring
16	107788	1	Spring–Extension
17	111418	1	Bushing
18	323–10	2	Screw–HH
19	92–7101	1	Pulley–Flat
20	79–0390	1	Guide–Belt
21	78–6771	1	Arm–Idler
22	111419	1	Washer–Bearing
23	88–9932	1	Switch – Micro
24	32144–4	2	Screw–TAP
25	147665	2	Screw
26	92–7102	1	Pulley–Idler
27	79–0400	1	Guide–Belt
28	93–3658	1	Spacer

Ref. No.	Part No.	Qty.	Description
29	3253–5	1	Washer–Lock
30	93–0547	1	Guide–Belt
31	93–0320	1	Pulley–Idler
32	93–0526–03	1	Bracket–Micro Switch
33	3290–354	1	Nut–Speed
34	92–6670	1	Bracket–Clutch
35	92–6671	1	Bracket–Brake
37	93–0548	1	Guide–Belt

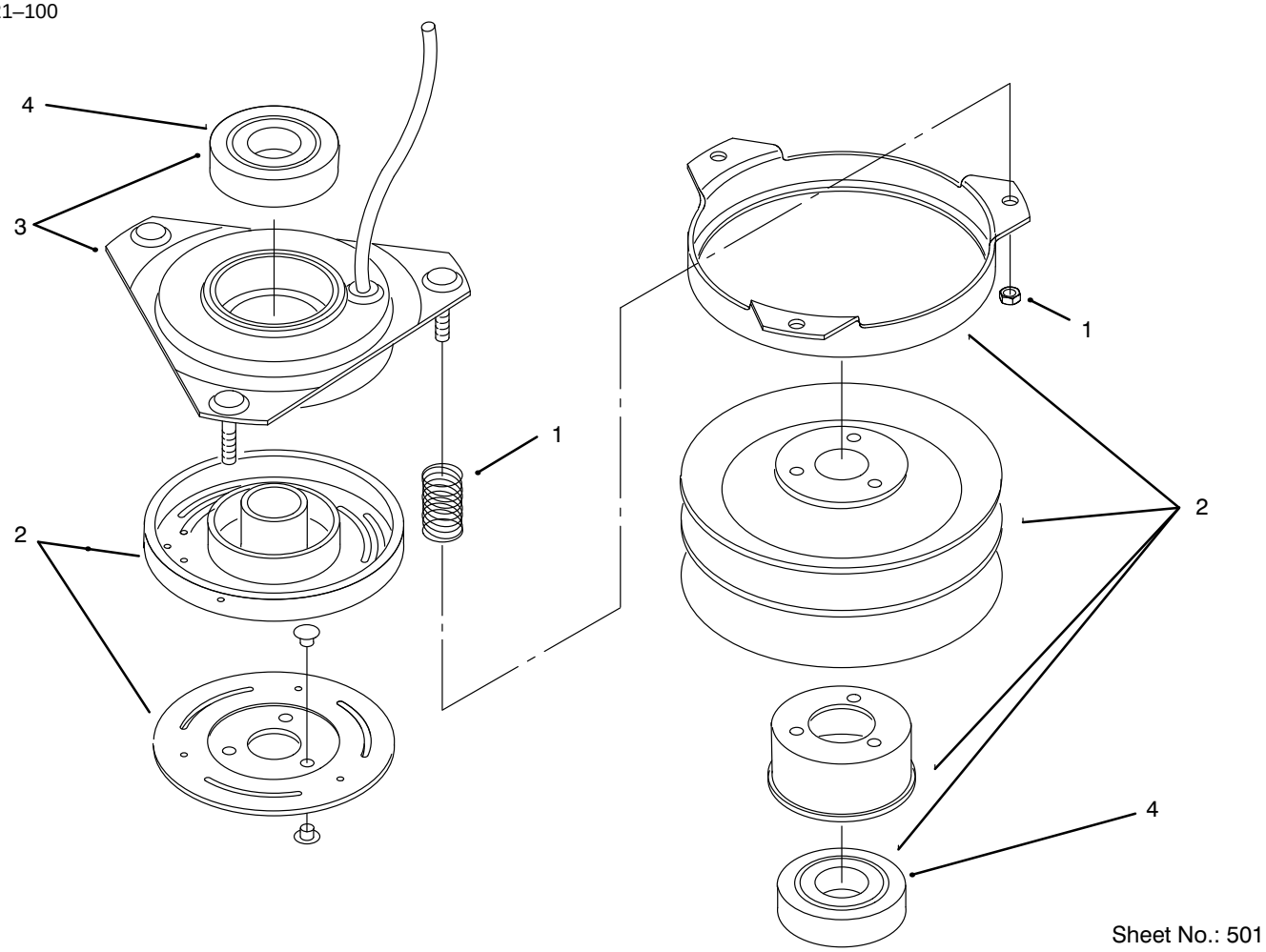


Sheet No.: 16

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
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

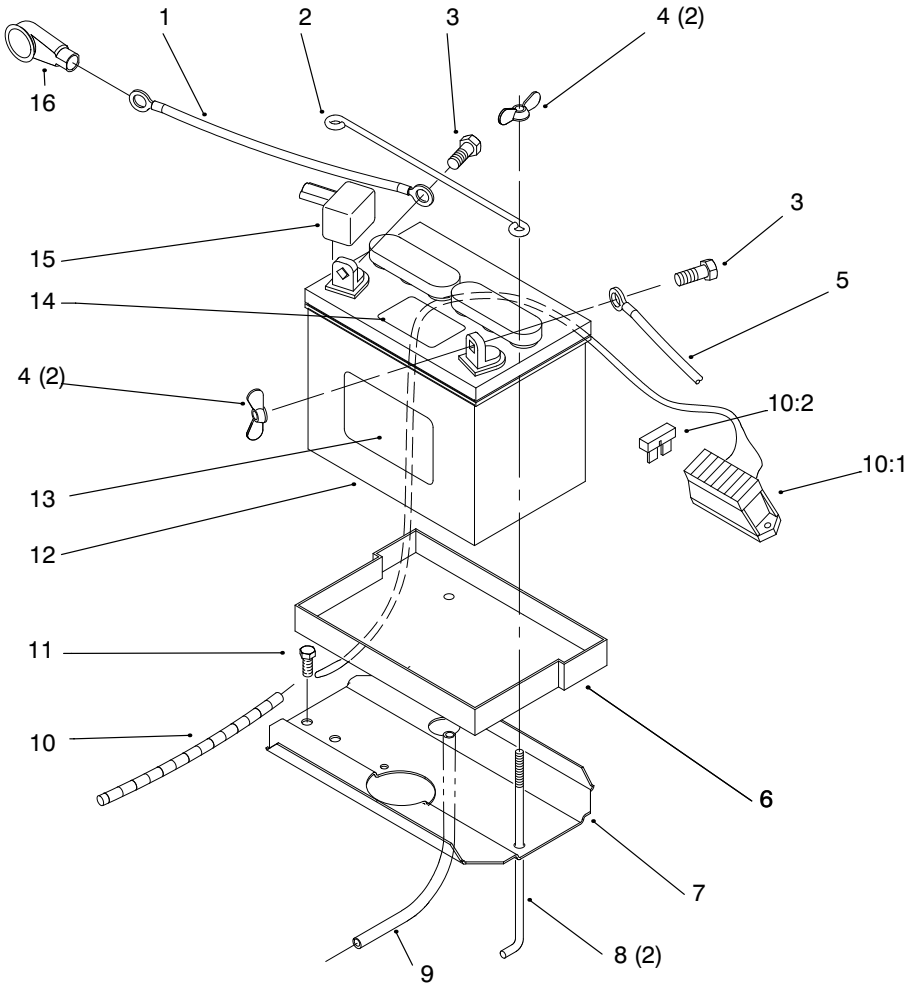


Sheet No.: 501

Clutch 94–2514

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

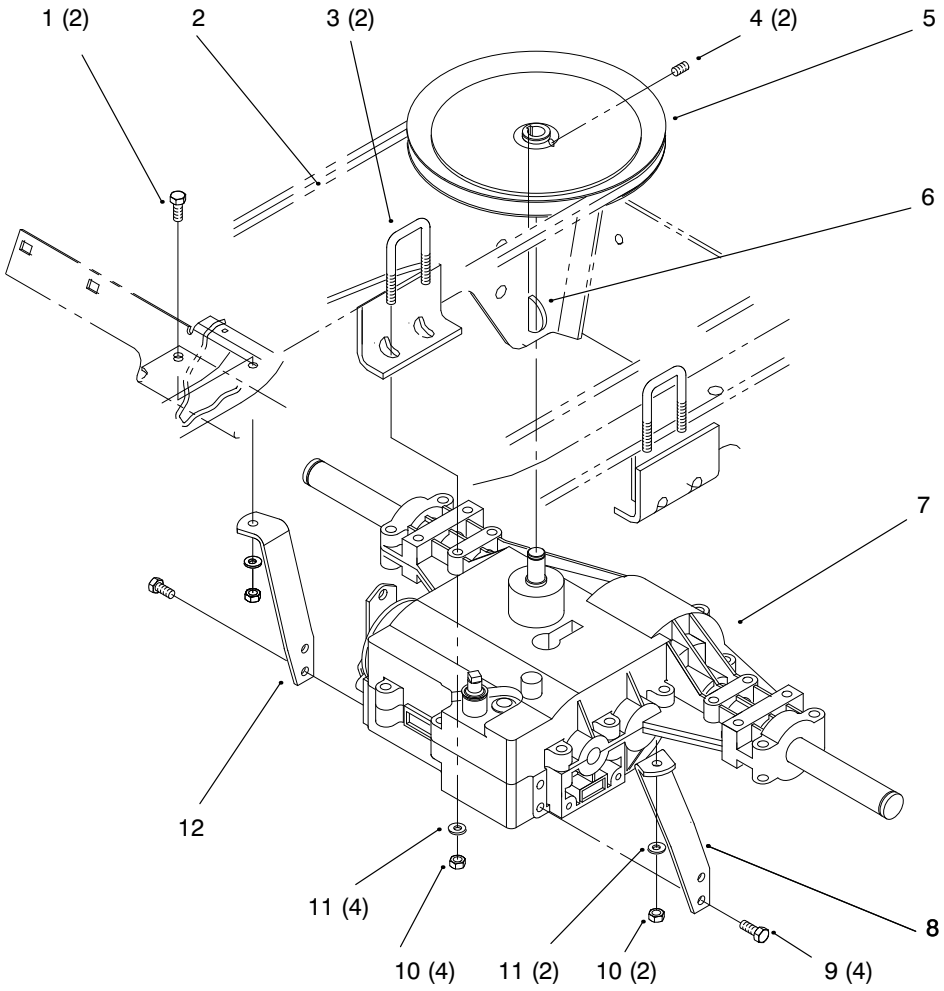


Sheet No.: 6

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
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	94–6777	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
15	28–8080	1	Boot–Battery Terminal

Ref. No.	Part No.	Qty.	Description

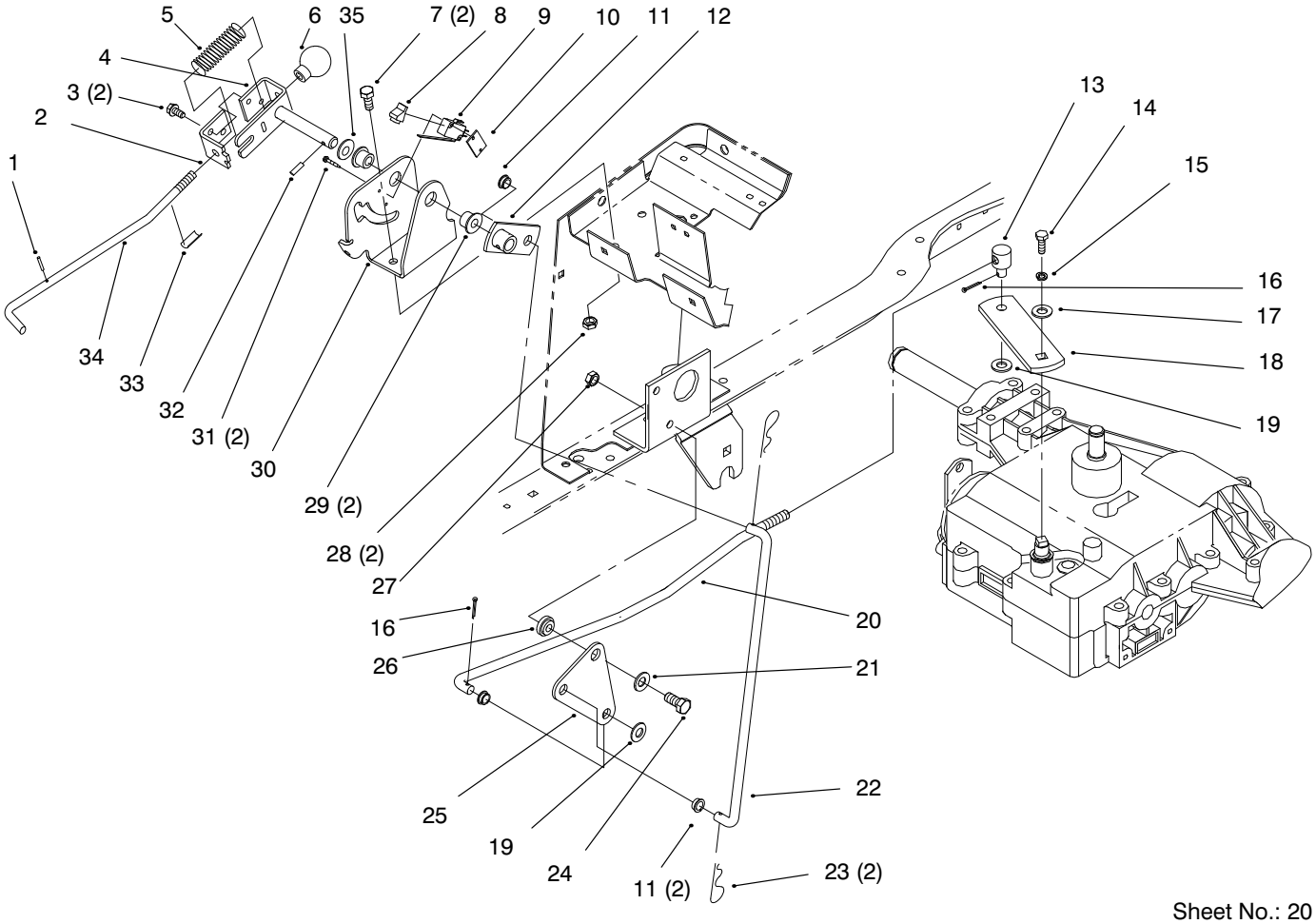


Sheet No.: 23

Transaxle — Gear

Ref. No.	Part No.	Qty.	Description
1	322–6	1	Screw–HH
2	92–6955	1	Belt
3	92–6769	2	U–Bolt
4	909543	2	Screw–Set
5	92–6887	1	Pulley
6	937225	1	Key
7	92–6761	1	Transaxle–Peerless 820
8	92–6889–03	1	Strap–Torque LH
9	32144–70	4	Screw–TAP
10	3296–29	6	Nut–Lock
11	3256–23	6	Washer–Flat
12	92–6890–03	1	Strap–Torque RH

Ref. No.	Part No.	Qty.	Description



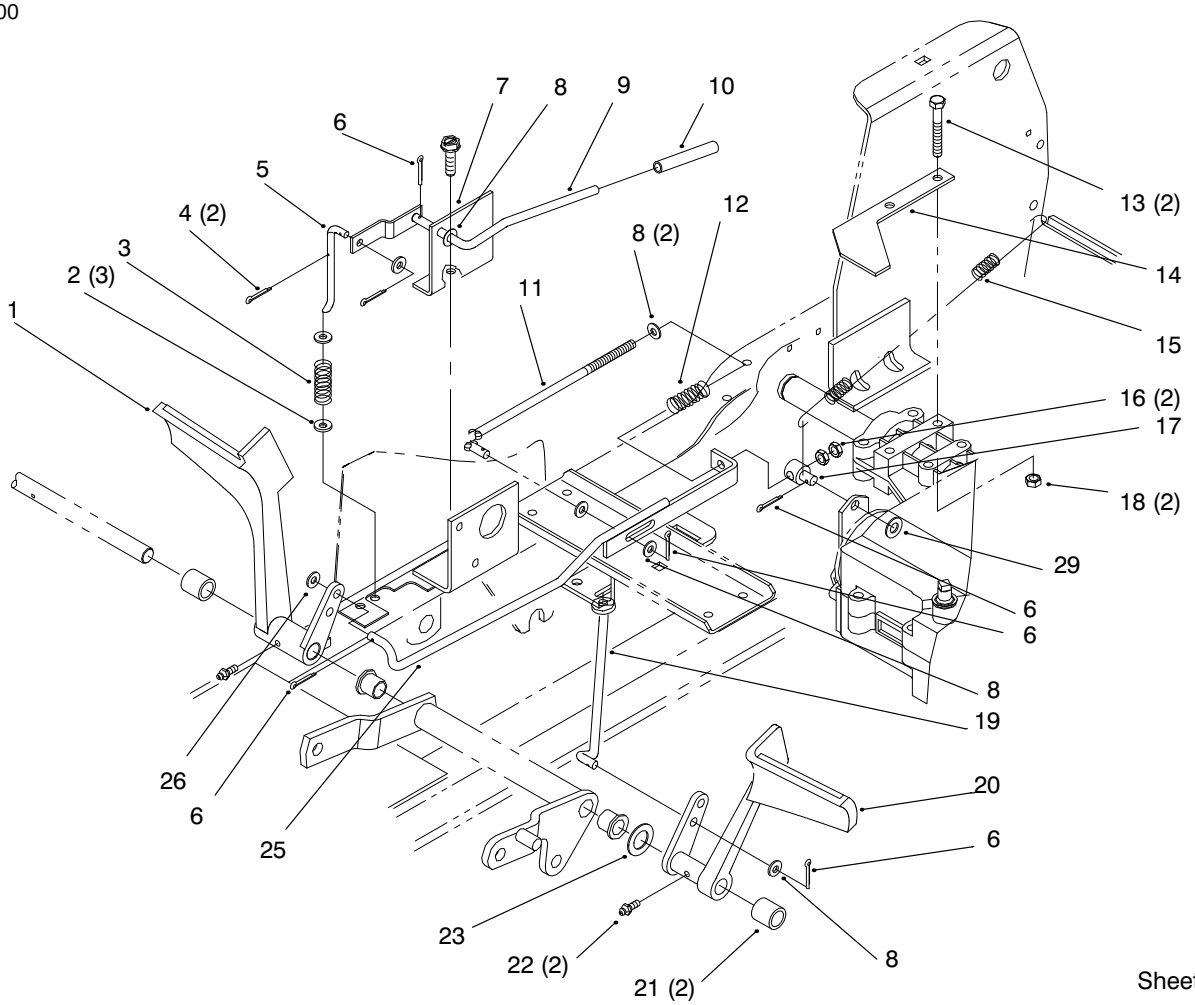
Sheet No.: 20

Gear Shift Linkage

Ref. No.	Part No.	Qty.	Description
1	32121–97	1	Pin–Roll
2	92–6921	1	Bracket–Shaft
3	32144–4	2	Screw–TAP
4	94–9767	1	Pivot–Shift
5	3624	1	Spring–Compression
6	233–42	1	Knob
7	322–3	2	Screw–HH
⁎9	115230	2	Switch–Clutch
10	3290–354	1	Nut–Speed
11	92–6875	3	Bearing–Shift Link
12	92–6926–03	1	Tube–Linkage
13	110656	1	Trunnion
14	329–23	1	Screw
15	3253–3	1	Washer–Lock
16	3272–6	2	Pin–Cotter
17	7–5461	1	Spacer–Transmission
18	92–6886	1	Arm–Shift
19	3256–24	2	Washer–Flat
20	92–6896	1	Rod–Shift Transaxle
21	3256–71	1	Washer–Flat
22	92–7005	1	Rod
23	3290–307	2	Pin–Cotter
24	322–5	1	Screw–HH
25	93–0524	1	Bracket–Pivot
26	105503	1	Bushing
27	3296–29	1	Nut–Lock

Ref. No.	Part No.	Qty.	Description
28	3296–29	2	Nut–Lock
29	256–219	2	Bushing
30	93–0503–03	1	Bracket–Pivot Mount
31	93–0539	2	Screw
32	32121–4	1	Pin–Roll
33	93–3141	1	Decal–Reverse Shift
34	94–9766	1	Rod–Shift
35	41–8440	1	Spacer

⁎ Refer to Lawn/Yard Tractor Service Bulletin for early models with black switches (P/N, Removal, Installation).

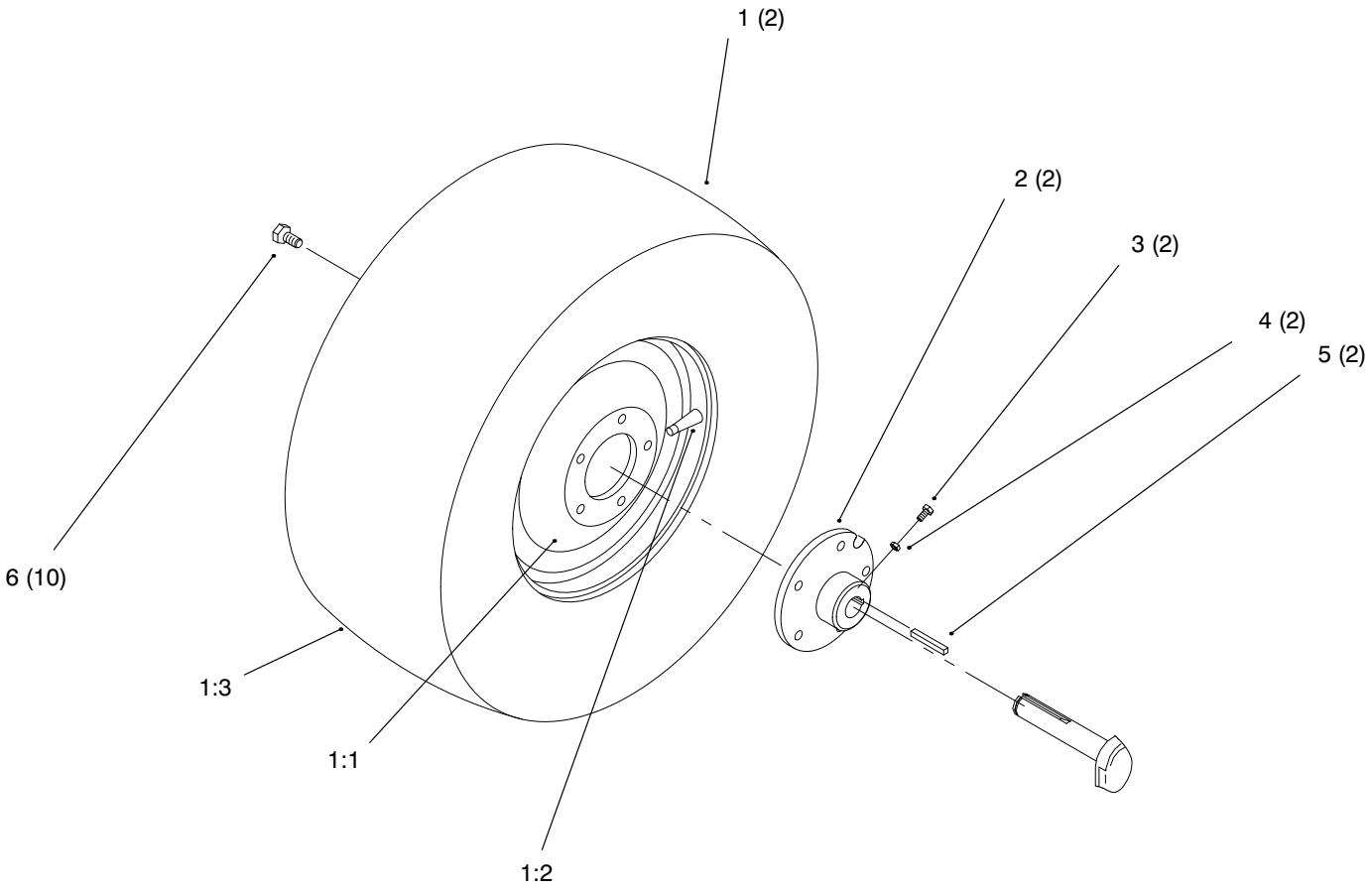


Sheet No.: 22

Clutch and Brake — Gear

Ref. No.	Part No.	Qty.	Description
1	93–3228–03	1	Pedal–Brake
2	3256–22	3	Washer–Flat
3	92–7116	1	Spring–Compression
4	3272–2	2	Pin–Cotter
5	92–7019	1	Rod–Park Brake
6	3272–6	5	Pin–Cotter
7	92–6929–03	1	Bracket–Parking Brake
8	3256–23	5	Washer–Flat
9	92–6931	1	Lever–Parking Brake
10	92–7009	1	Grip–Parking Brake
11	94–1729	1	Rod–Spring
12	94–1734	1	Spring–Compression
13	322–11	2	Screw–HH
14	94–1723–03	1	Stop–Brake
15	94–1733	1	Spring–Extension
16	3218–2	2	Nut–Hex Jam
17	94–2688	1	Trunnion
18	3296–29	2	Nut–Lock
19	92–6924	1	Rod–Clutch
20	78–8180–03	1	Pedal–Clutch
21	94–1862	2	Spacer
22	302–5	2	Fitting–Grease
23	111712	1	Washer–Wave
25	95–3039–03	1	Brake Arm Wa

Ref. No.	Part No.	Qty.	Description
26	3256–3	1	Washer–Flat
29	3256–24	1	Washer–Flat



Sheet No.: 24

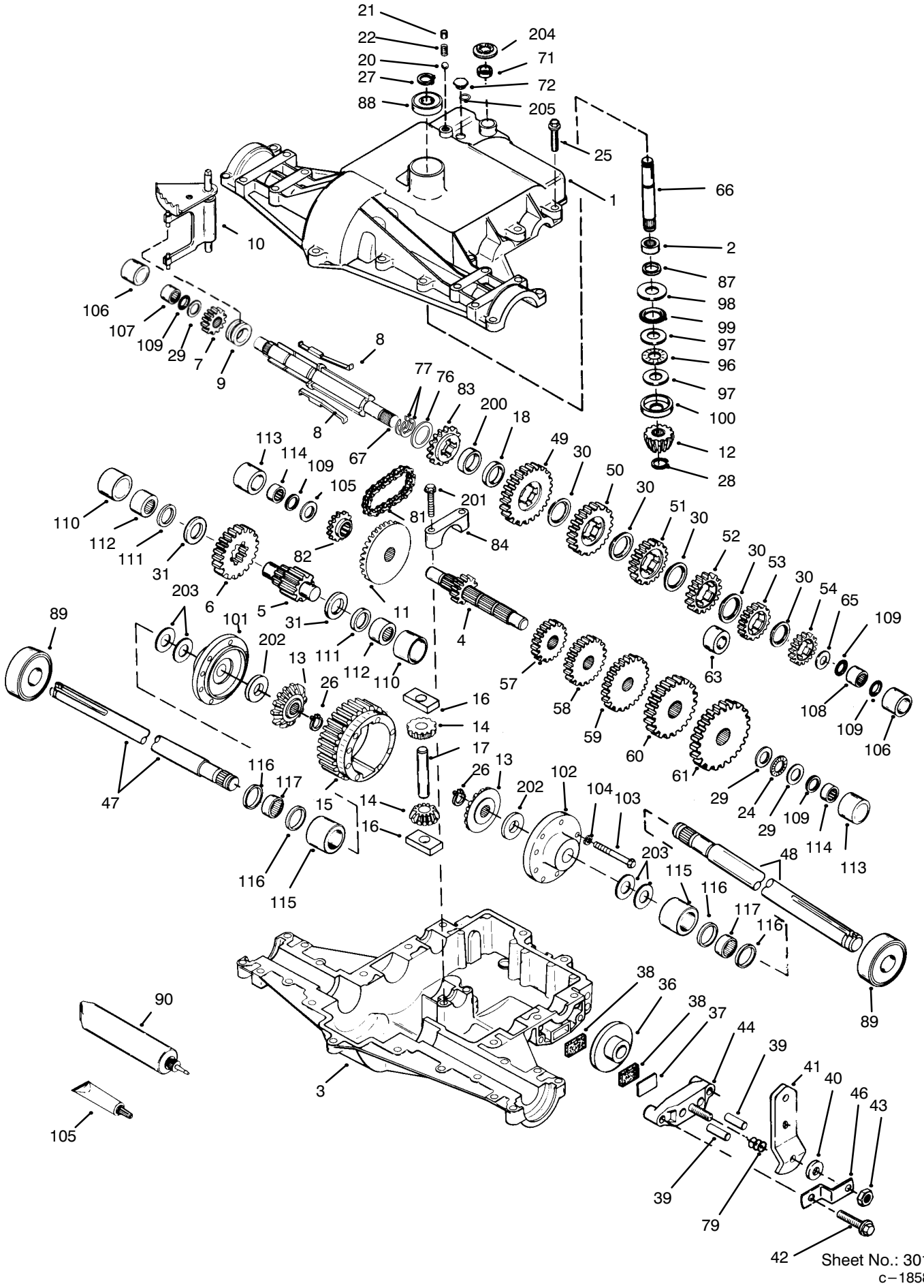
Rear Wheel

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

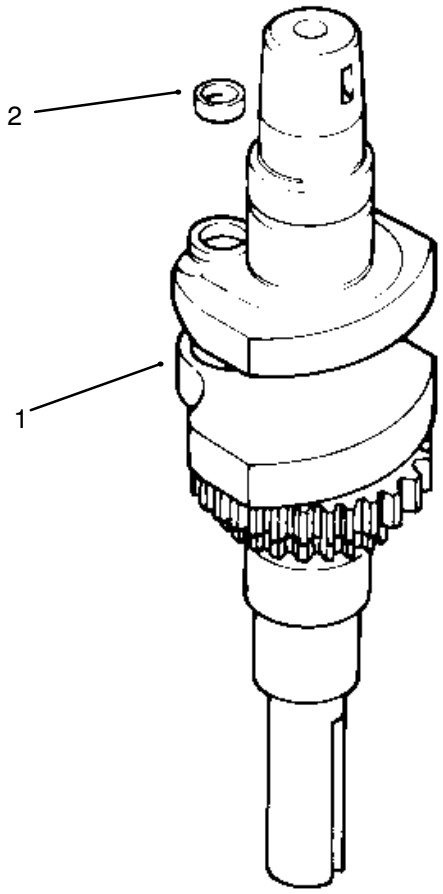
Peerless Transaxle 820–024 / 820–024A



Sheet No.: 301
c–1858

Peerless Transaxle 820–024 / 820–024A

Ref. No.	Part No.	Qty.	Description
1	772098A	1	Cover–Transaxle
2	780155	1	Bearing–Needle
3	770088	1	Case–Transaxle
4	776291	1	Countershaft–Gear 9t
5	776275	1	Shaft–Output
6	778247	1	Gear–Output 35t
7	778253	1	Gear–Spur 15t
8	792138	4	Key–Shift (820–024 Only)
8	792180	4	Key–Shift (820–024A Only)
9	784216	1	Collar–Shift (820–024 Only)
9	784352	1	Collar–Shift (820–024A Only)
10	784342	1	Fork–Shift (820–024 Only)
10	784375	1	Fork–Shift (820–024A Only)
11	778246	1	Gear–Bevel 33t
12	778245	1	Pinion–Input Bevel 13t
13	778198	2	Gear–Bevel 16t
14	778197	2	Pinion–Bevel 10t
15	778248	1	Gear–Ring
16	786027	2	Block–Drive
17	786019	1	Pin–Drive
18	786121	1	Spacer .350–.340 Thick
20	792077	1	Ball–Steel
21	792078	1	Screw–Set 3/8–16x3/8
22	792079	1	Spring
24	780071	1	Bearing–Thrust
25	792129A	17	Screw 5/16–18x1 1/4
26	792018	2	Ring–Retaining
27	792018	1	Ring–Retaining
28	788040	1	Ring–Retaining
29	780072	3	Washer
30	780108	5	Washer
31	780128	2	Washer
36	790043	1	Disk
37	790007	1	Plate–Brake Pad
38	799021	1	Pad–Brake 2/Pkg
39	786026	2	Pin–Dowel
40	792076A	1	Washer
41	790013	1	Lever–Brake
42	792073	2	Screw 1/4–20x1 1/4
43	792075	1	Nut–Lock 5/16x24
44	790025	1	Holder–Brake Pad
46	786086	1	Bracket–Brake Lever
47	774958	1	Axle 12 9/16” Long
48	774959	1	Axle 16 7/16” Long
49	778216A	1	Gear–Spur 41t
50	778206A	1	Gear–Spur 35t
51	778205A	1	Gear–Spur 30t
52	778204A	1	Gear Spur 25t
53	778203A	1	Gear Spur 22t
54	778273	1	Gear Spur 19t
57	778199	1	Gear Spur 15t
58	778200	1	Gear Spur 20t
59	778201	1	Gear Spur 25t
60	778202	1	Gear Spur 28t
61	778222	1	Gear Spur 30t
65	780109	1	Washer
66	776293	1	Shaft–Input 30.910” Lg
67	776313	1	Shaft–Shifter/Brake (820–024 Only)
67	776385	1	Shaft–Shifter/Brake (820–024A Only)
71	788069	1	Ring–Square Cut
72	792165	1	Plug–Threaded 5/16–18
76	780090	1	Washer–Flat (820–024A Only)
77	788078A	2	Ring–Retaining (820–024A Only)
79	792144	1	Spring
81	786062A	1	Chain–Roller #41 22” Lg
82	786061	1	Sprocket 10t
83	786124	1	Sprocket–Reverse 14t
84	786131	1	Cap–Bearing
87	788042	1	Seal–Oil 3/4”
88	780119	1	Bearing–Ball
89	780050	2	Bearing–Ball
90	788067B	1	Grease 32 Oz Bentonite
96	780084	1	Bearing–Thrust
97	780051	2	Washer
98	780165	1	Washer
99	788077	1	O Ring
100	780166	1	Washer–Cupped
101	774833	1	Carrier–Differential
102	774834	1	Carrier–Differential
103	792020	8	Screw 14–20x2 1/4
104	792006	8	Washer–Lock
105	780153	1	Washer
106	786144	1	Sleeve
107	780152	1	Bearing–Needle
108	780150	1	Bearing–Needle
109	792001	5	O Ring
110	786142	2	Sleeve
111	788071	2	Ring–Square Cut
112	780168	2	Bearing–Needle
113	786143	2	Sleeve
114	780151	2	Bearing–Needle
115	786145	2	Sleeve
116	788070	4	Ring–Square Cut
117	780031	2	Bearing–Needle
150	510334	1	Gasket Loctite #515
200	786122	1	Spacer .276–.268 Thick
201	792073	2	Screw 1/4–20x1 1/4
202	780107	2	Washer
203	780042	4	Washer
204	792145	1	Nut–Push
205	780091	1	O Ring



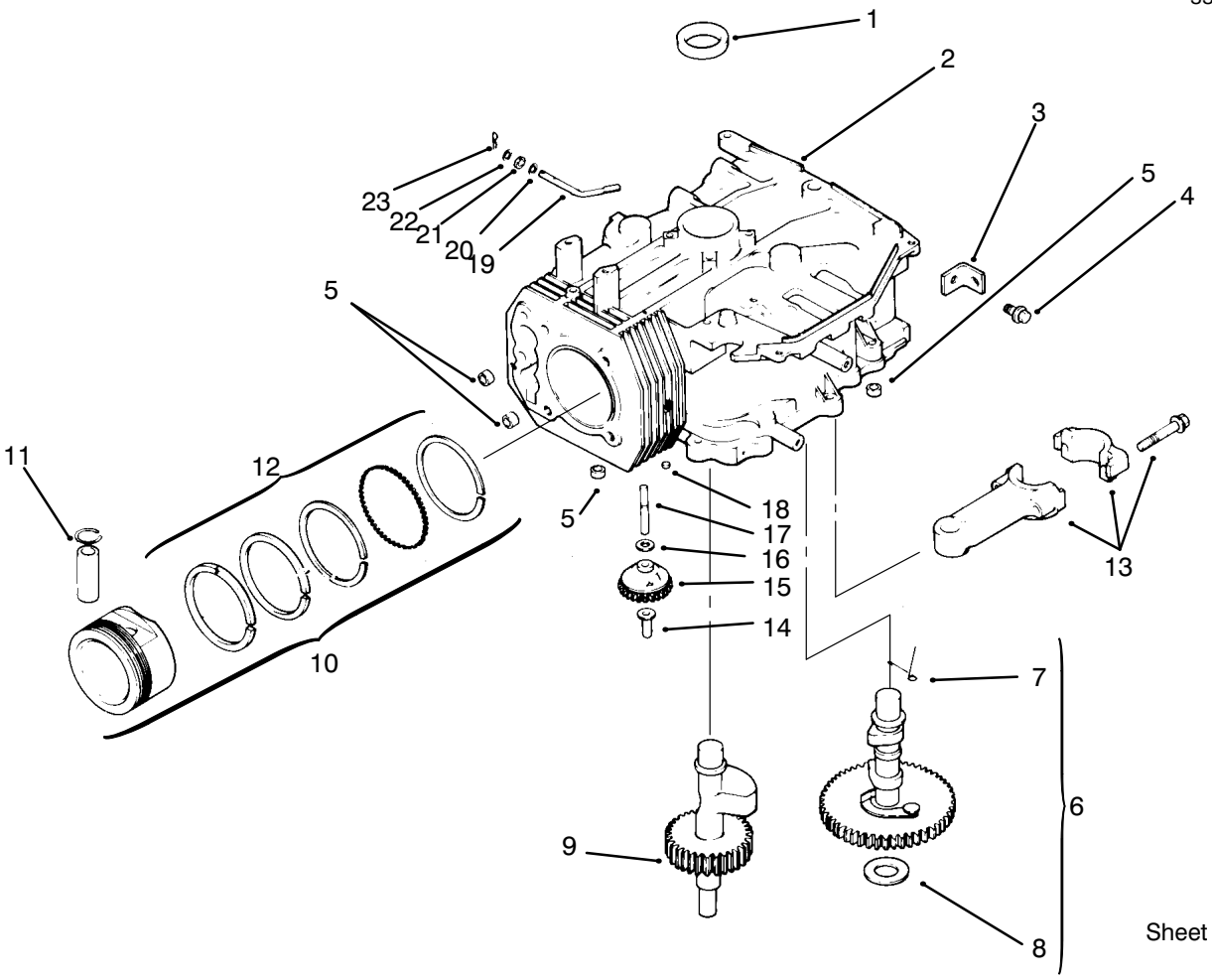
Sheet No.: 101
C–1948

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

3321–100



Sheet No.: 102
C–1949

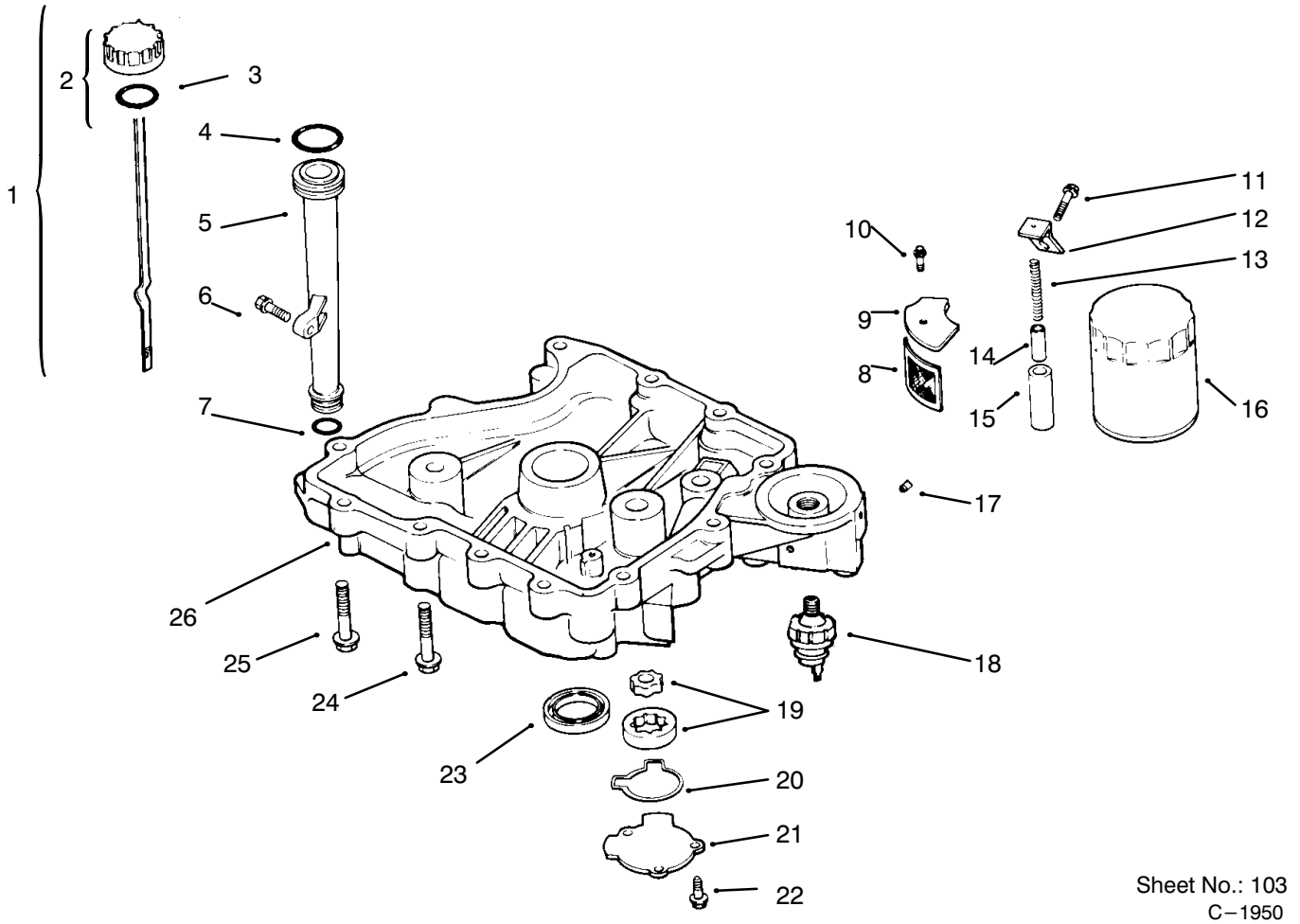
Crankcase

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
12	12 018 09	1	Ring Set .50

Ref. No.	Part No.	Qty.	Description
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

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

3321–100



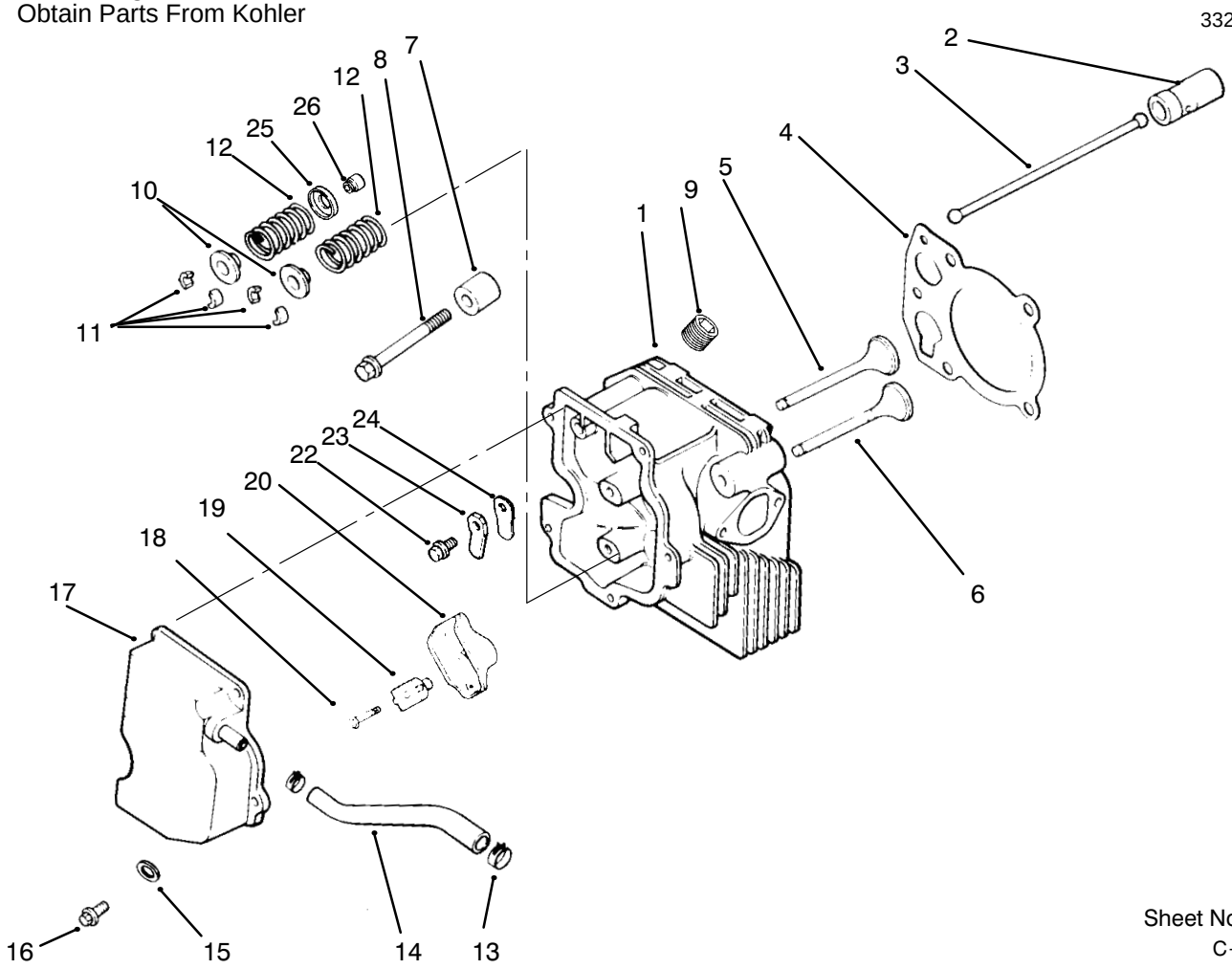
Sheet No.: 103
C–1950

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	11	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

3321–100

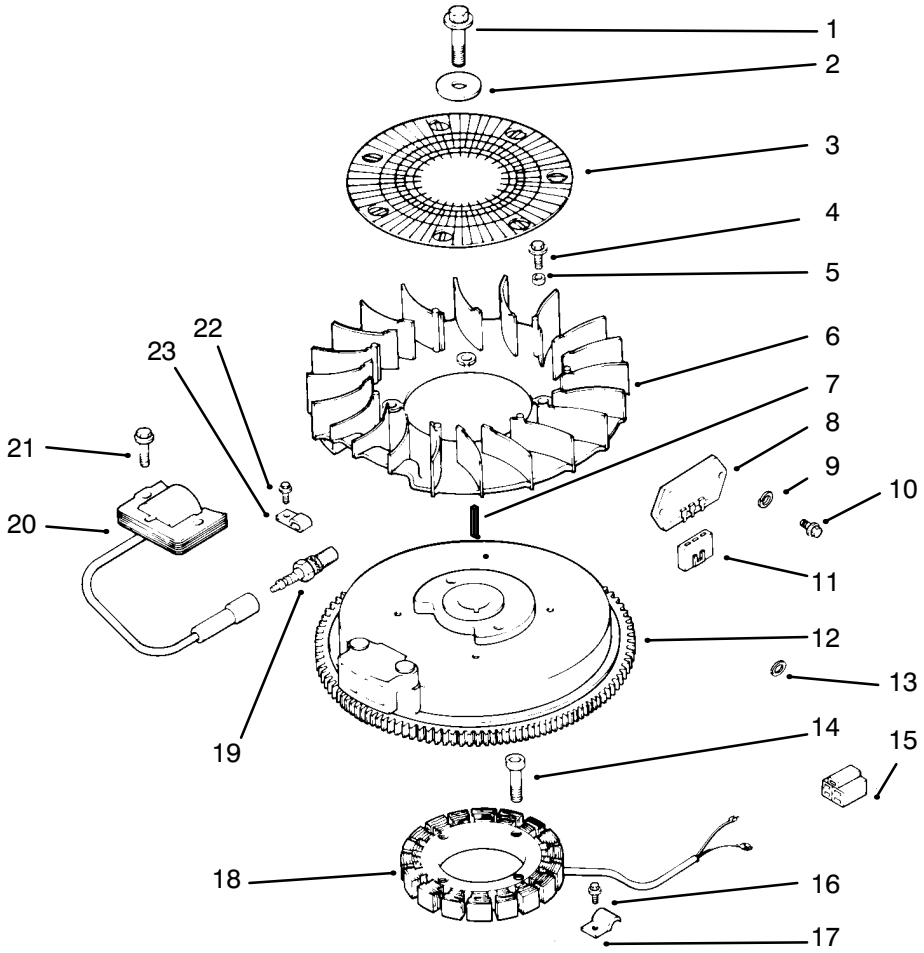


Sheet No.: 104
C–1951

Cylinder Head / Valve / Breather

Ref. No.	Part No.	Qty.	Description
1	12 318 15	1	Cylinder Head
2	12 351 02	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–Rocker 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



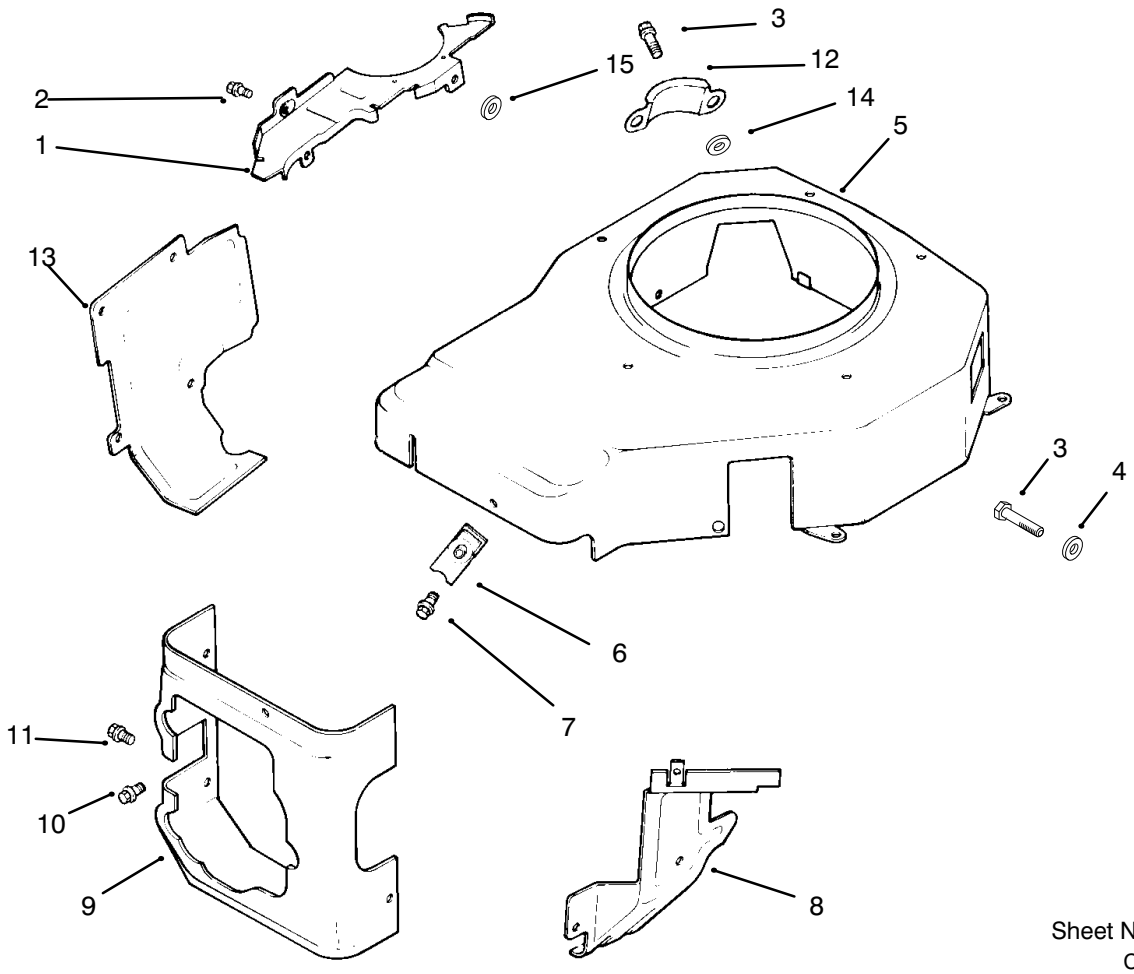
Sheet No.: 105
C–1952

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

3321–100

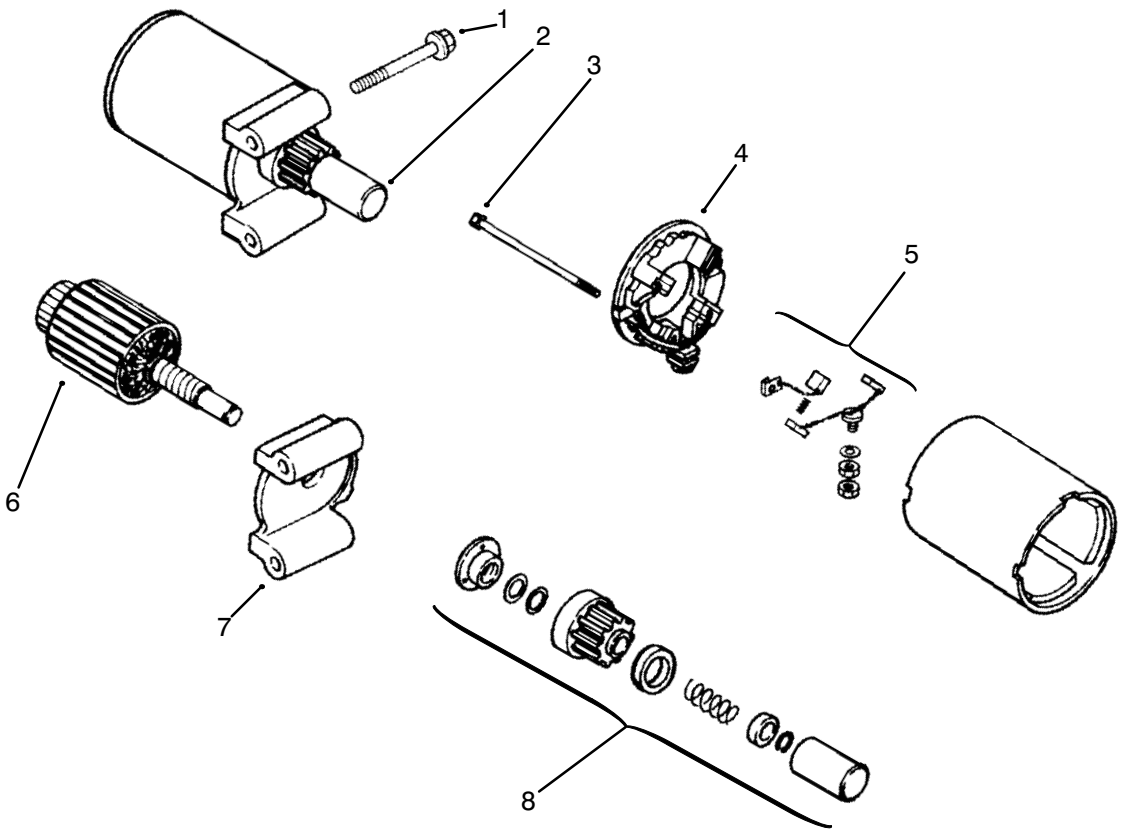


Sheet No.: 106
C–1953

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



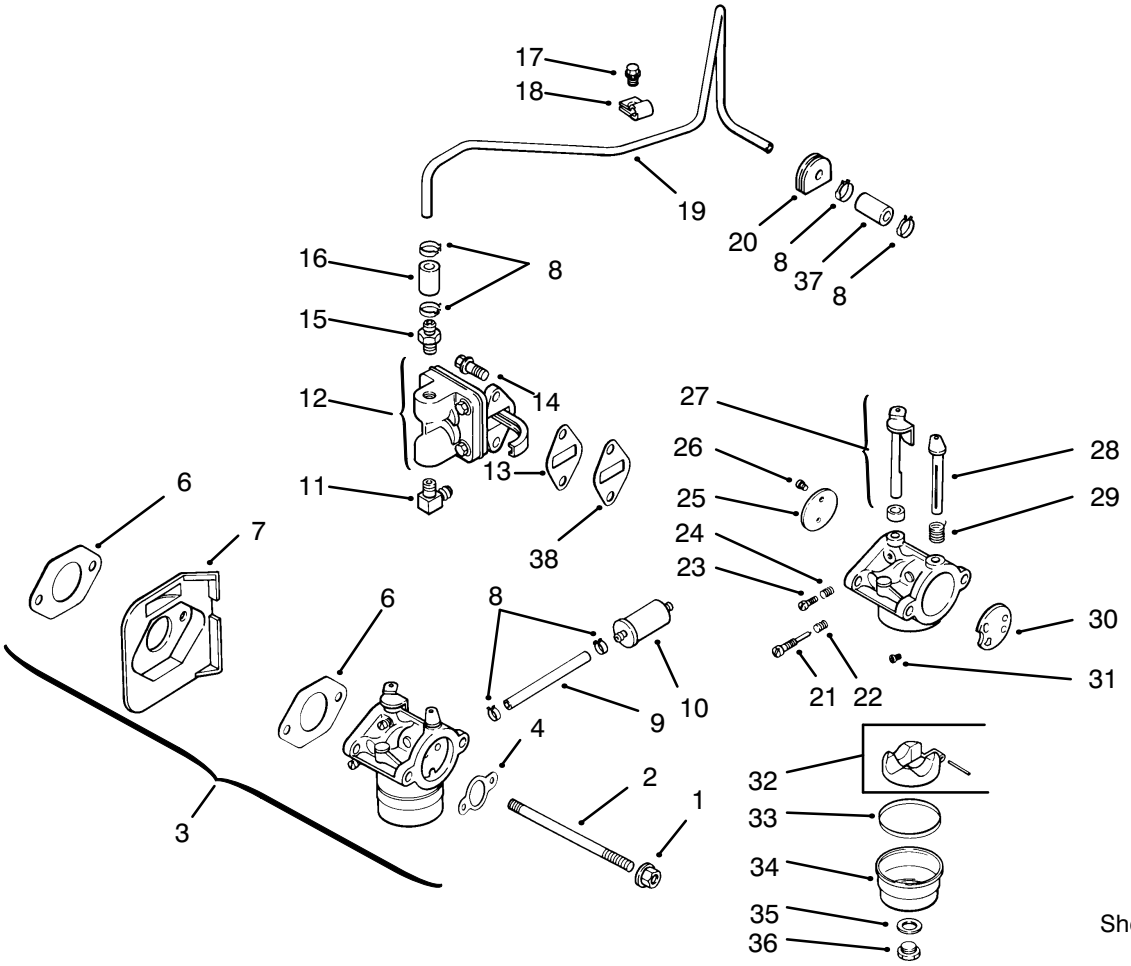
Sheet No.: 107
C–

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
†7	12 227 05	1	Cap–Drive End
†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



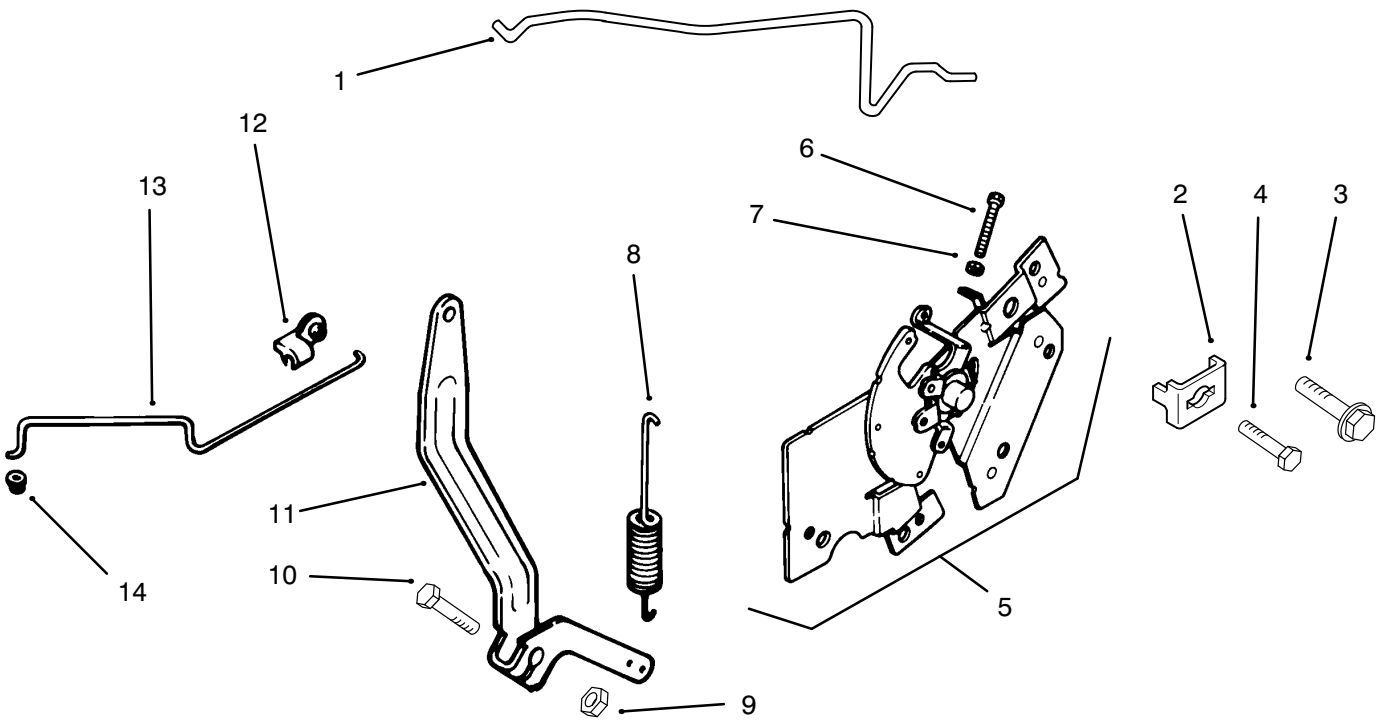
Sheet No.: 108
C–

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



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C–1956

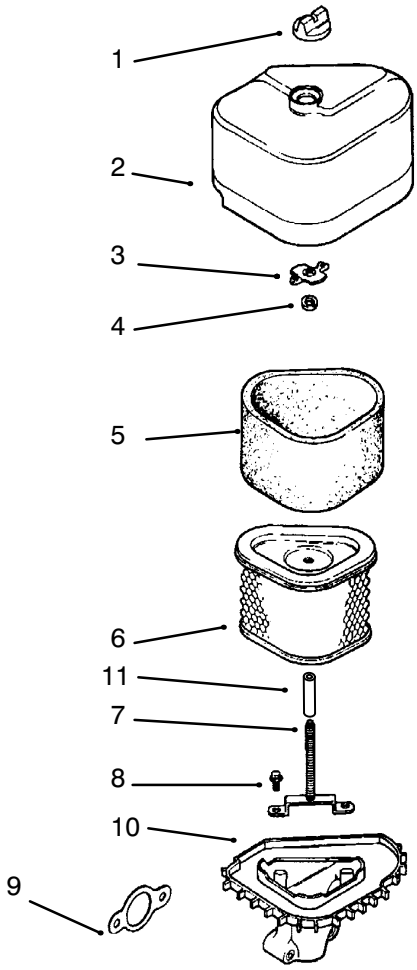
Engine Controls

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

3321–100



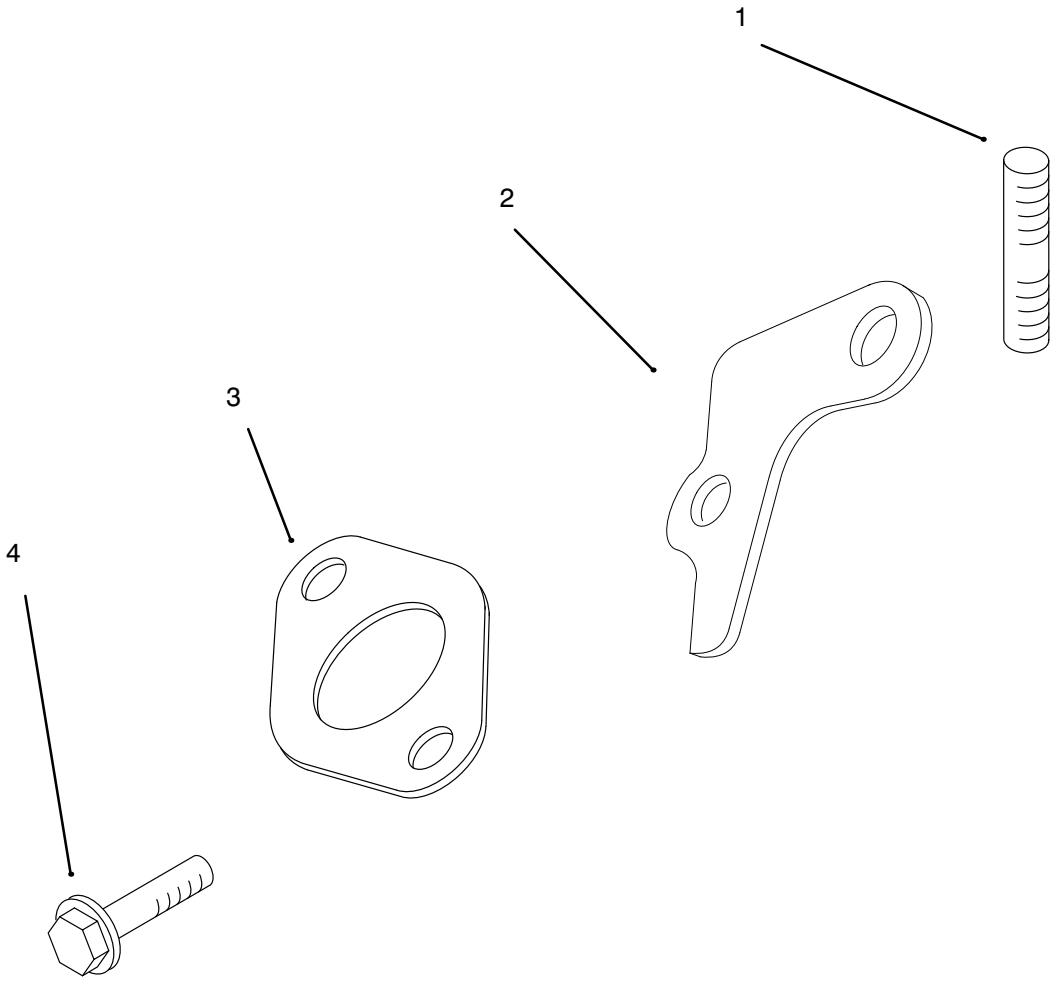
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Air Intake / Filtration

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



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C–

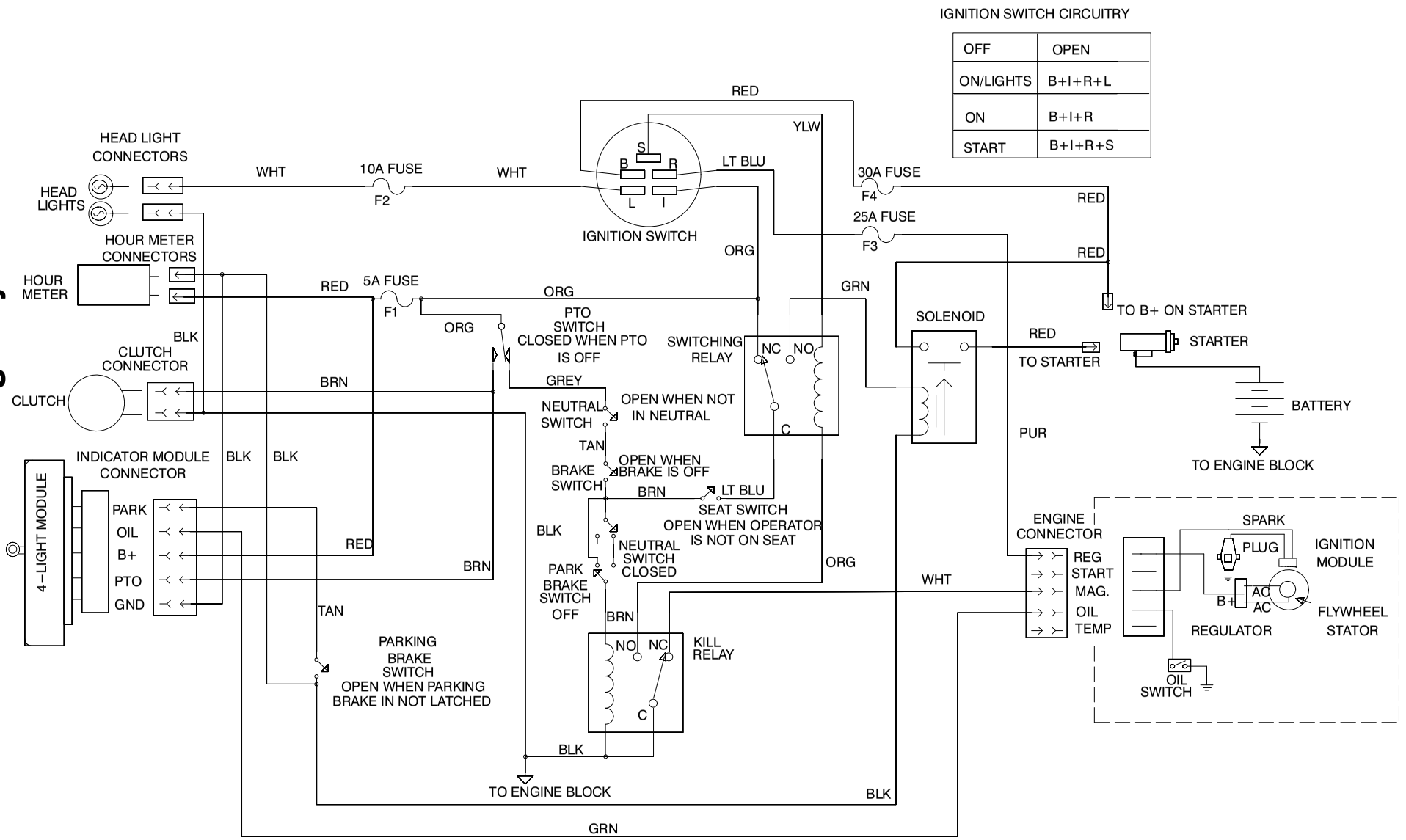
Exhaust

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

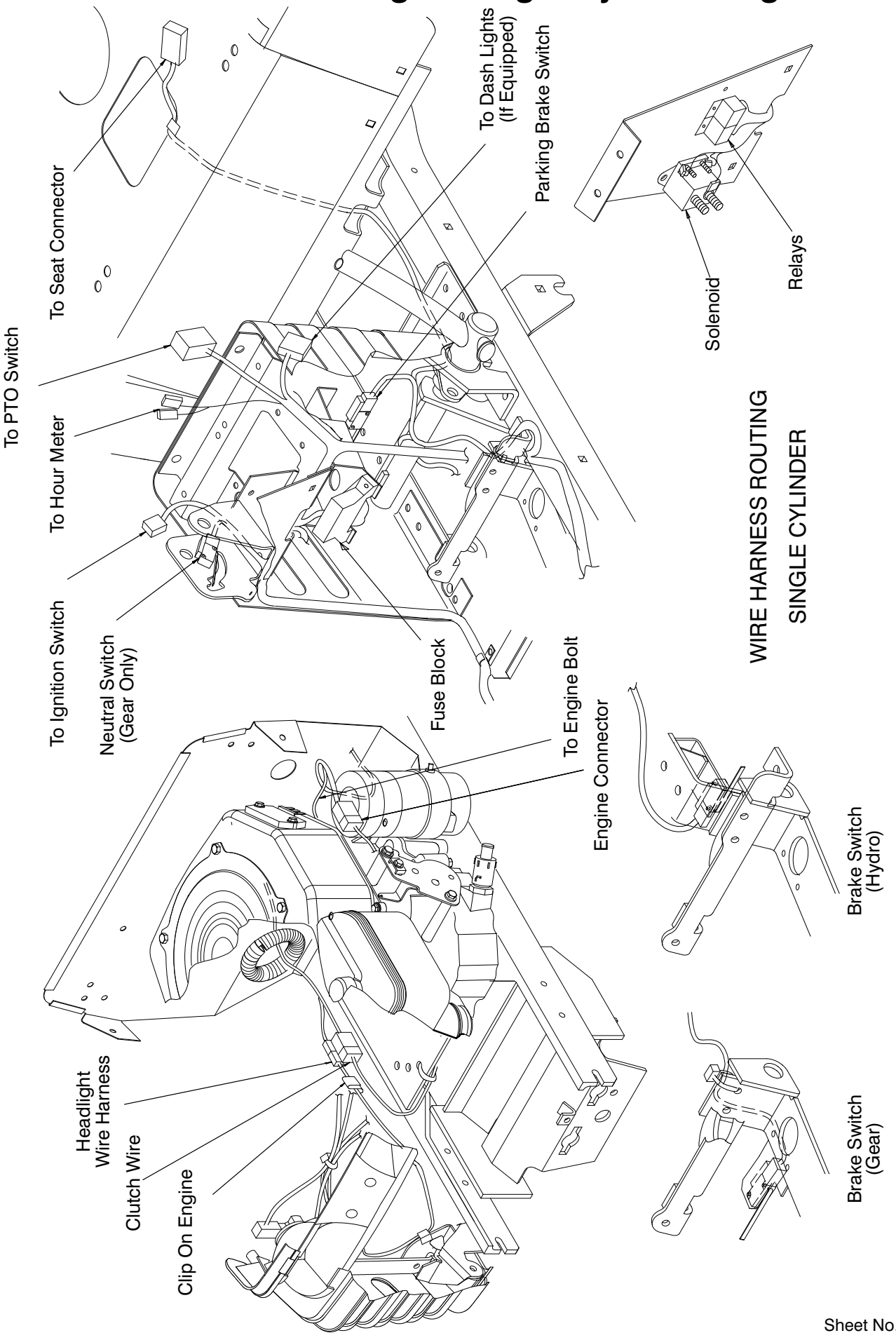
Ref. No.	Part No.	Qty.	Description

Electric Schematic Single Cylinder Gear Drive

YGT SINGLE CYLINDER GEAR DRIVE



Wire Harness Routing — Single Cylinder Engine



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