FORM NO. 3321–102

TORO®

# Lawn & Garden Tractor

**Model No. 72085 — 8900001 & Up**
**Model No. 72104 — 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.

# Contents


| Description | Page |
|---|---|
| Hood and Grill | 1 |
| Dash | 2 |
| Steering Wheel and Tilt | 3 |
| Lower Steering | 4 |
| Front Axle | 5 |
| Seat | 6 |
| Fender and Footrest | 7 |
| Twin Cylinder Engine, Muffler, and P.T.O. | 8 |
| Clutch 92–6885 | 9 |
| Battery | 10 |
| Hoodstand and Firewall | 11 |
| Fuel Tank and Hydro Reservoir | 12 |
| Lift Lever and Height of Cut | 13 |
| Frame | 14 |
| Hydro Drive Components | 15 |
| Hydro Brake | 16 |
| Hydro Control | 17 |
| Hydro Transaxle | 18 |
| Cruise Control | 19 |
| Rear Wheel | 20 |
| Crankshaft | 21 |
| Crankcase | 22 |
| Oil Pan / Lubrication | 23 |
| Head / Valve / Breather | 24 |
| Ignition / Electrical | 25 |
| Blower Housing & Baffles | 26 |
| Starting System | 27 |
| Fuel System | 28 |
| Engine Controls | 29 |
| Air Intake / Filtration | 30 |
| Exhaust | 31 |
| Transaxle Case | 32 |
| Center Case | 33 |
| Pump Shaft | 34 |
| Motor Shaft | 35 |
| Range Shift | 36 |
| Bypass Return | 37 |
| Lever Damper | 38 |
| N-Centering | 39 |
| Brake Interlock | 40 |
| Differential Gear | 41 |
| Final Pinion | 42 |
| Axle Shaft | 43 |
| Brake | 44 |
| Electric Schematic Twin Cylinder Hydro Drive W/Cruise | 45 |
| Wire Harness Routing — Twin Cylinder Engine | 46 |
| Wire Harness Routing — Twin Hydro Cruise | 47 |


# 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 |



© The TORO Company — 1997
*All Rights Reserved*

# 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.

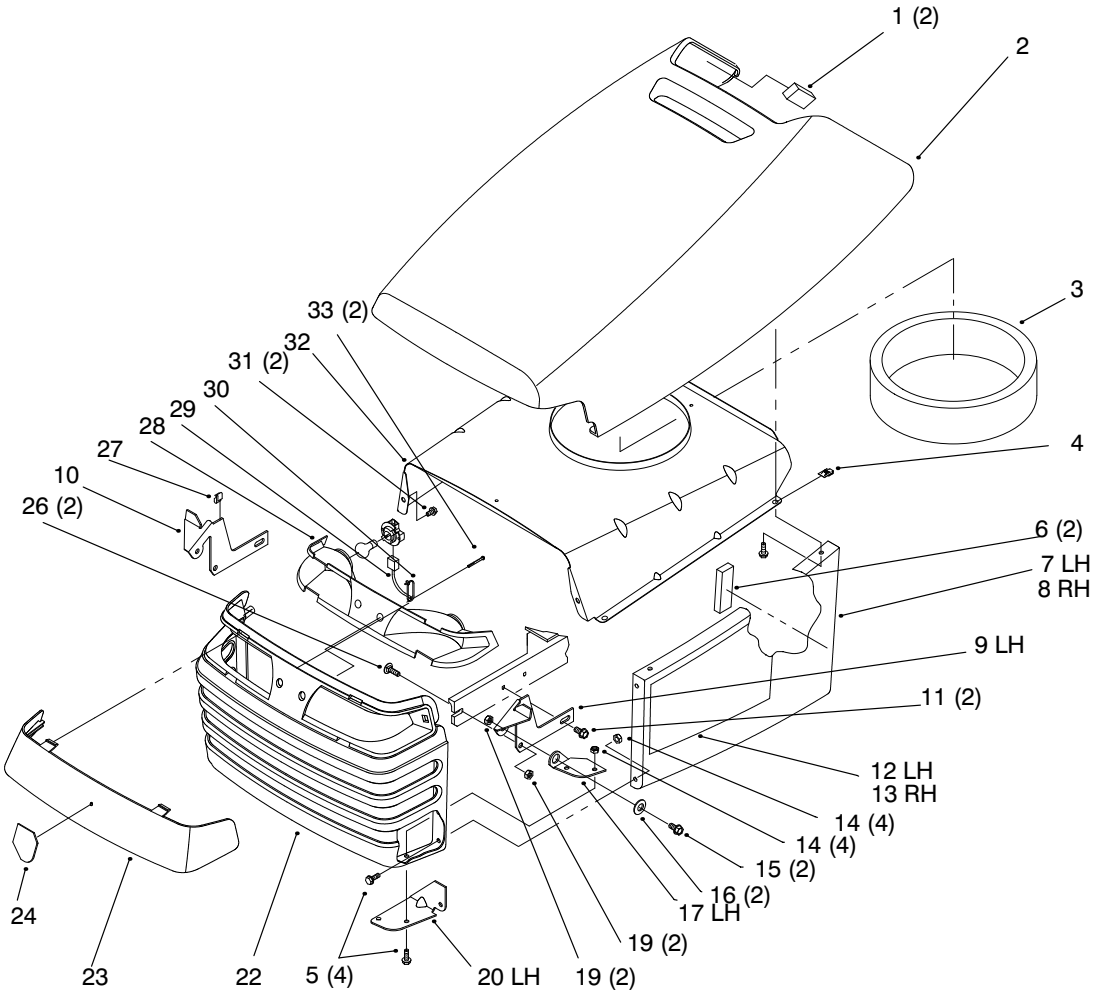
Reference numbers of this type appear in part lists and as callouts in illustrations.

## 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.

3321–102

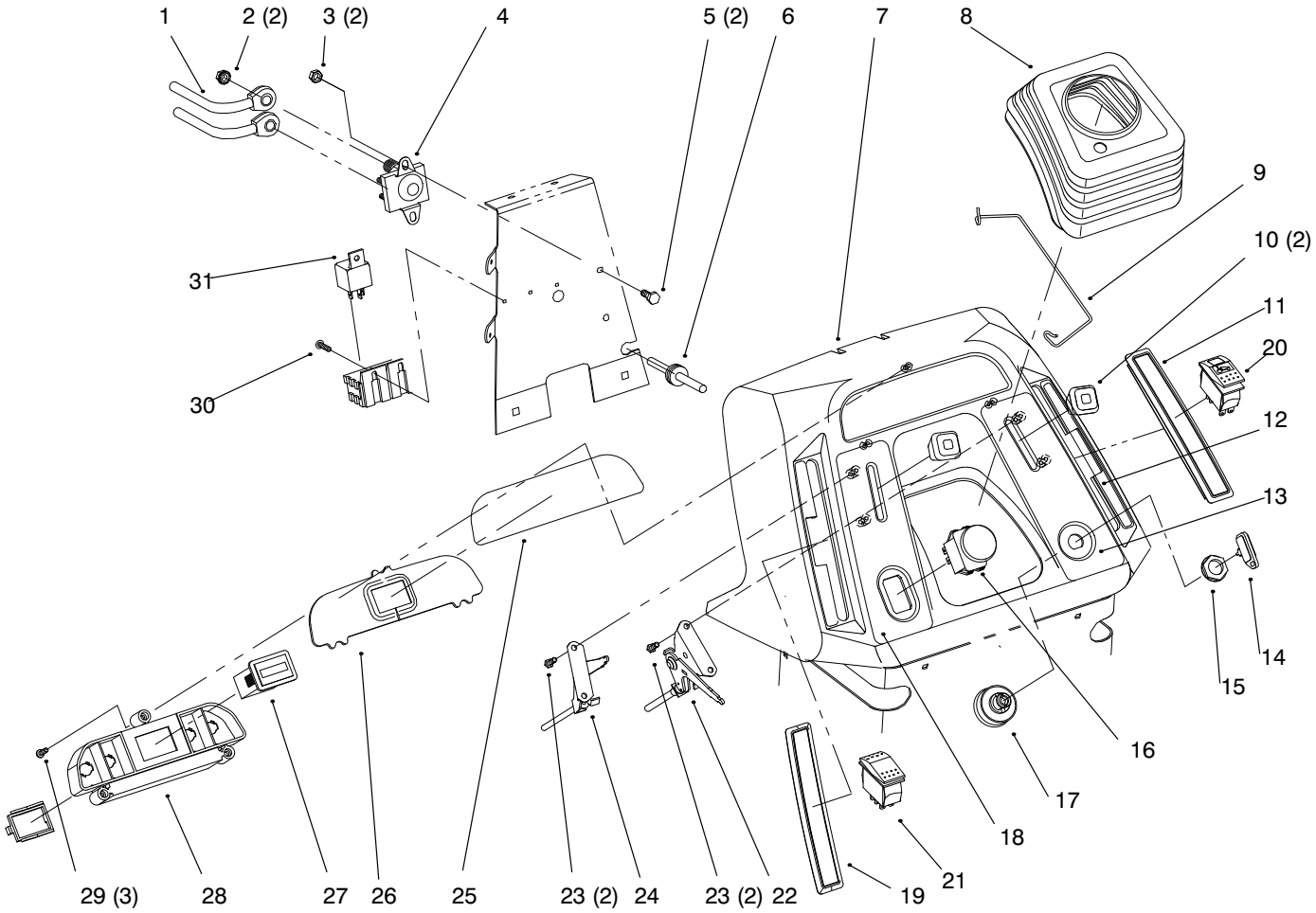



# Hood and Grill

| 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 |

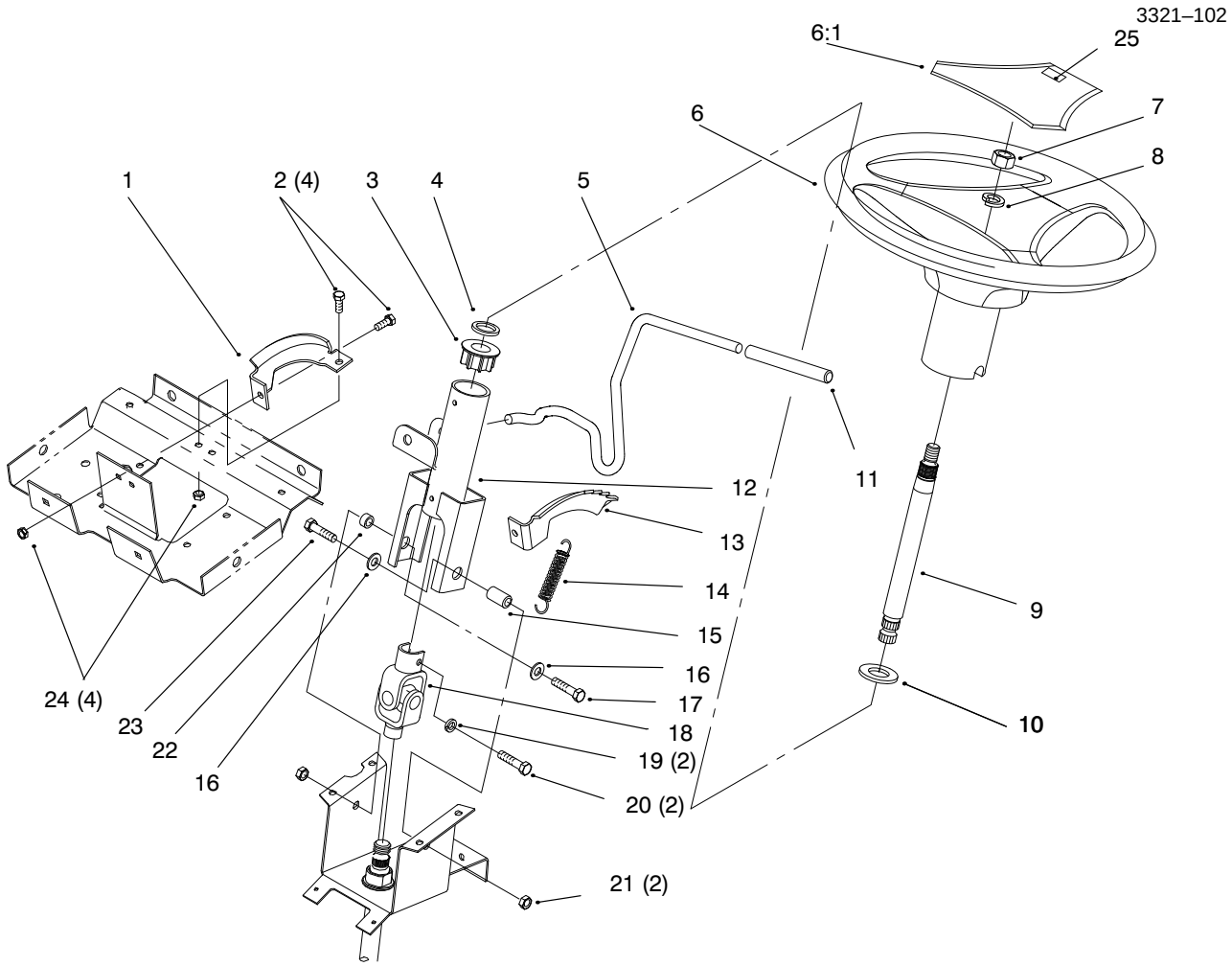
3321–102




# 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 (Only On: 72085) |
| 11 | 93–0533 | 1 | Cover–Cruise (Only On: 72104) |
| 13 | 92–6721 | 1 | Decal–Throttle/Ignition (Only On: 72085) |
| 13 | 93–7255 | 1 | Decal–Dash (Only On: 72104) |
| 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 (Only On: 72085) |
| 18 | 93–7256 | 1 | Decal–Dash (Only On: 72104) |
| 19 | 92–6797 | 1 | Cover–Slot LH |
| 20 | 93–0527 | 1 | Switch–Cruise |
| 22 | 92–6784 | 1 | Control–Throttle |
| 23 | 32144–32 | 4 | Screw–Plastic |
| 24 | 92–6783 | 1 | Control–Choke |
| 25 | 94–1248 | 1 | Decal–Dash Lens |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 26 | 92–6705 | 1 | Lens–Dash |
| 27 | 94–4208 | 1 | Hourmeter |
| 28 | 92–6709 | 1 | Light–Indicator |
| 29 | 94–6961 | 3 | Screw |
| 30 | 32144–8 | 2 | Screw–PPH |
| 31 | 116397 | 3 | Relay |

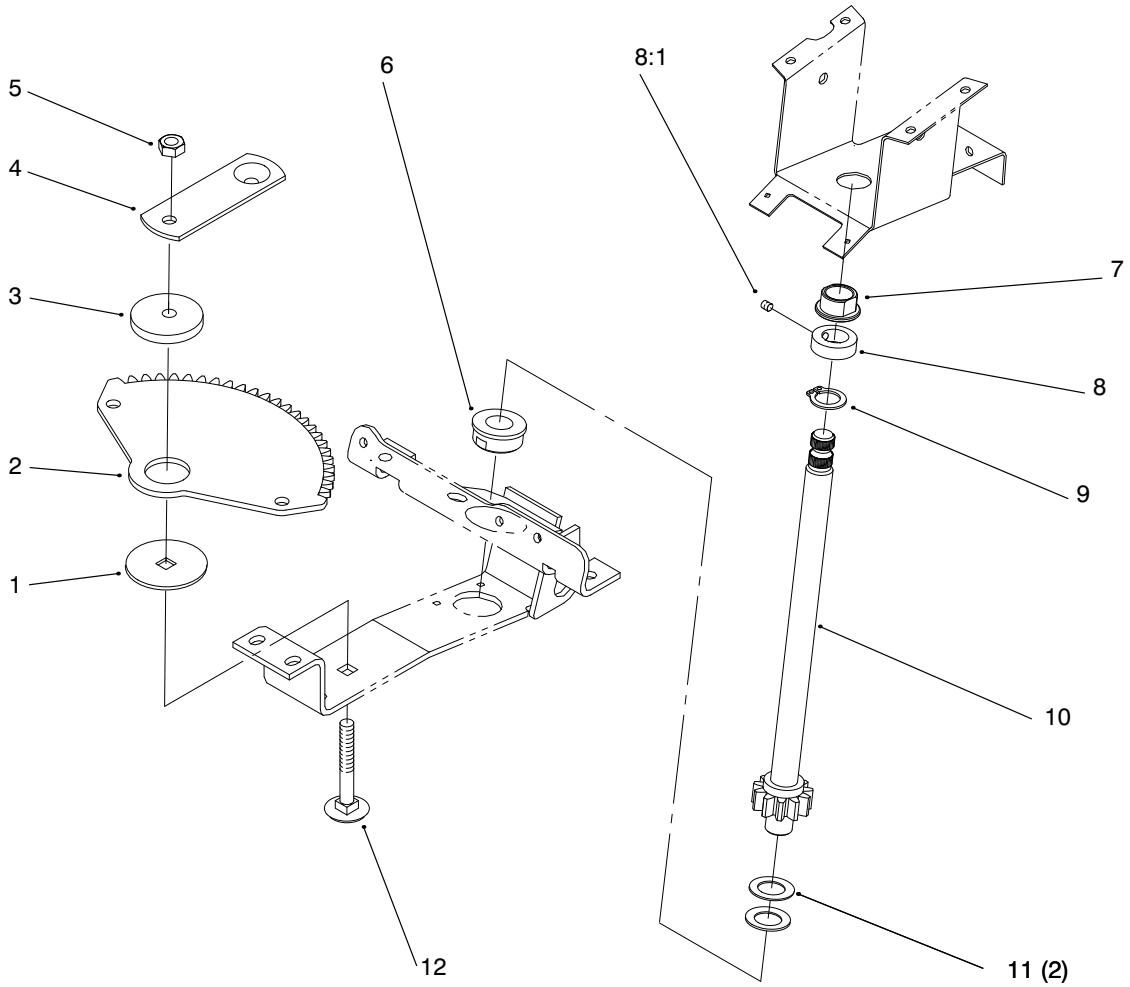



# Steering Wheel and Tilt

| 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 | 98–1472 | 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 |
|---|---|---|---|

3321–102

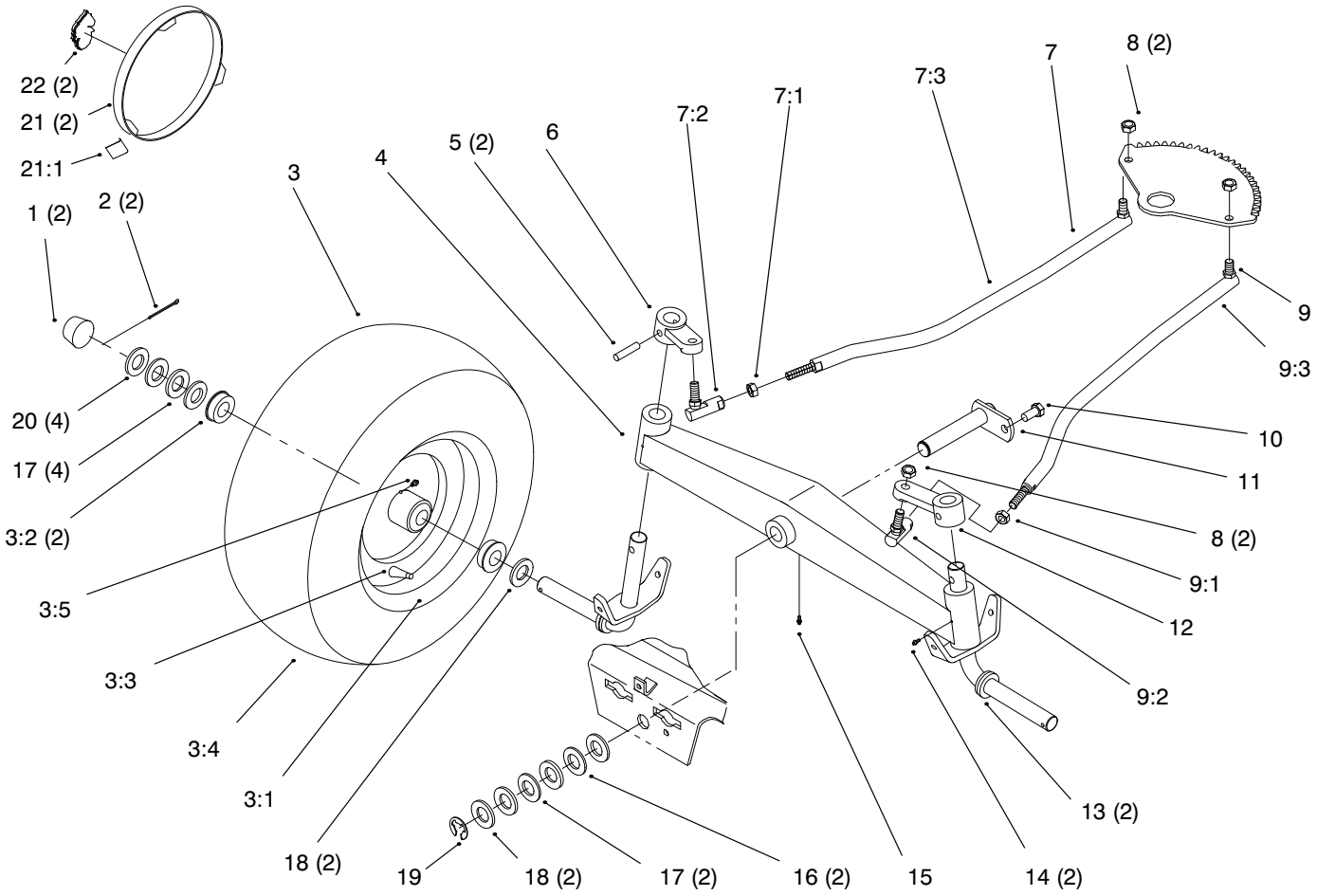



# Lower Steering

| 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 |
|---|---|---|---|

3321–102



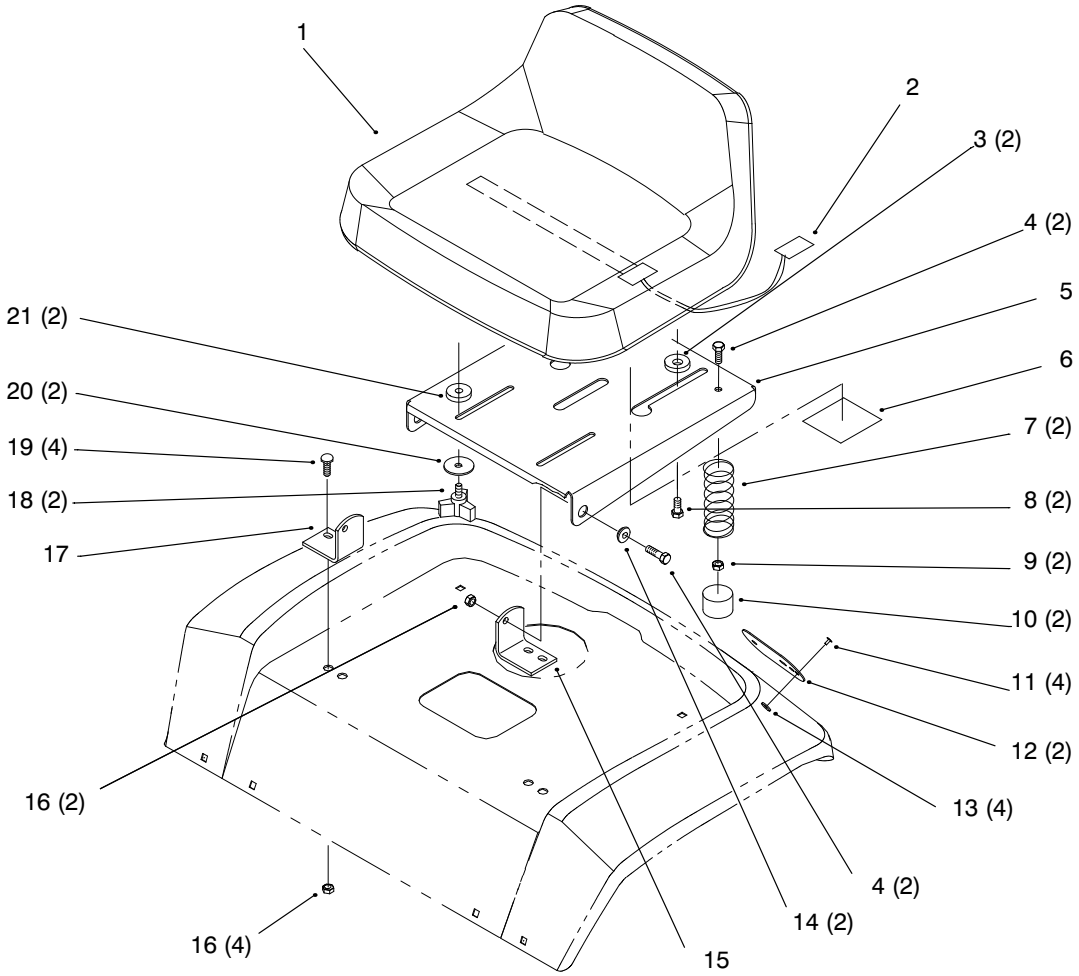

# Front Axle

| 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

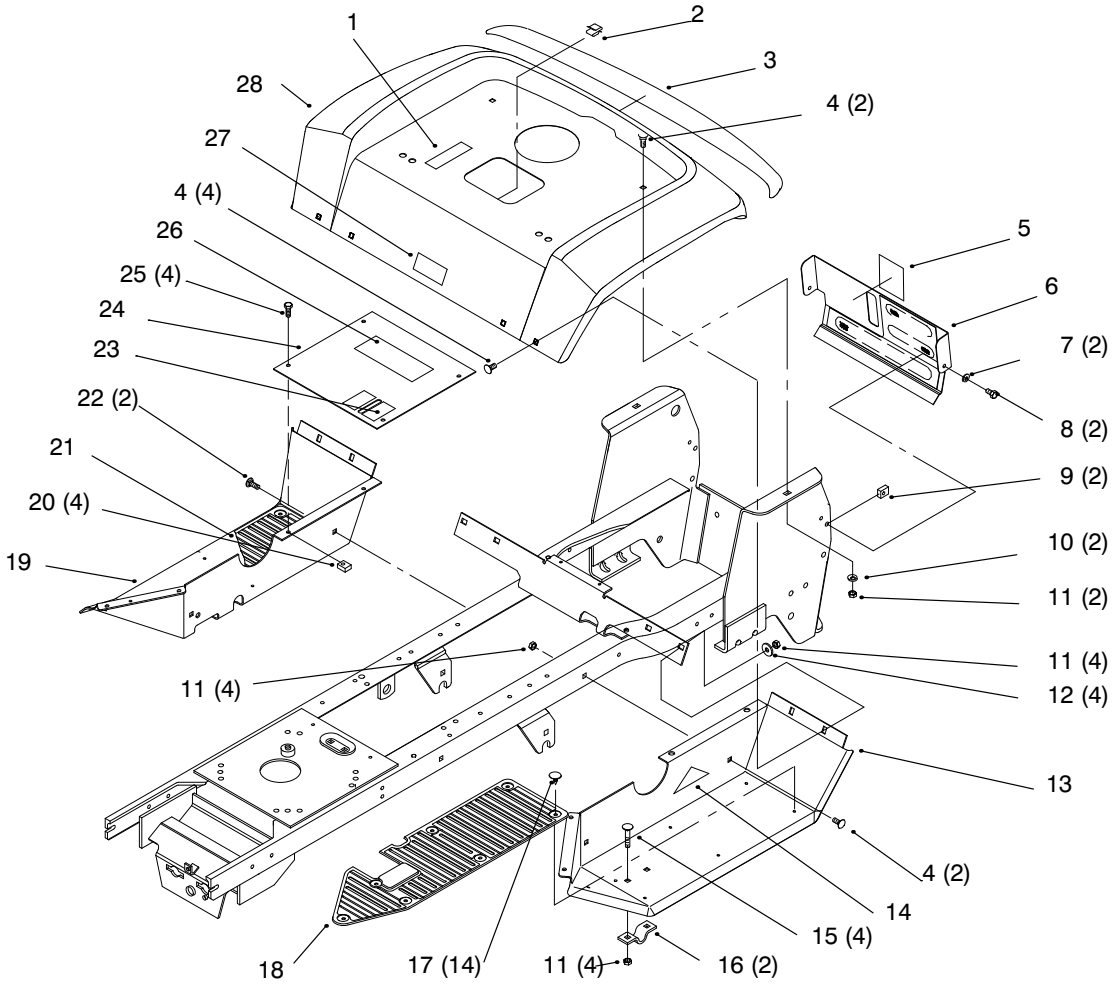
3321–102




# 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 |
| 6 | 114621 | 1 | Decal–Noise (Only On: 72104) |
| 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 |
|---|---|---|---|

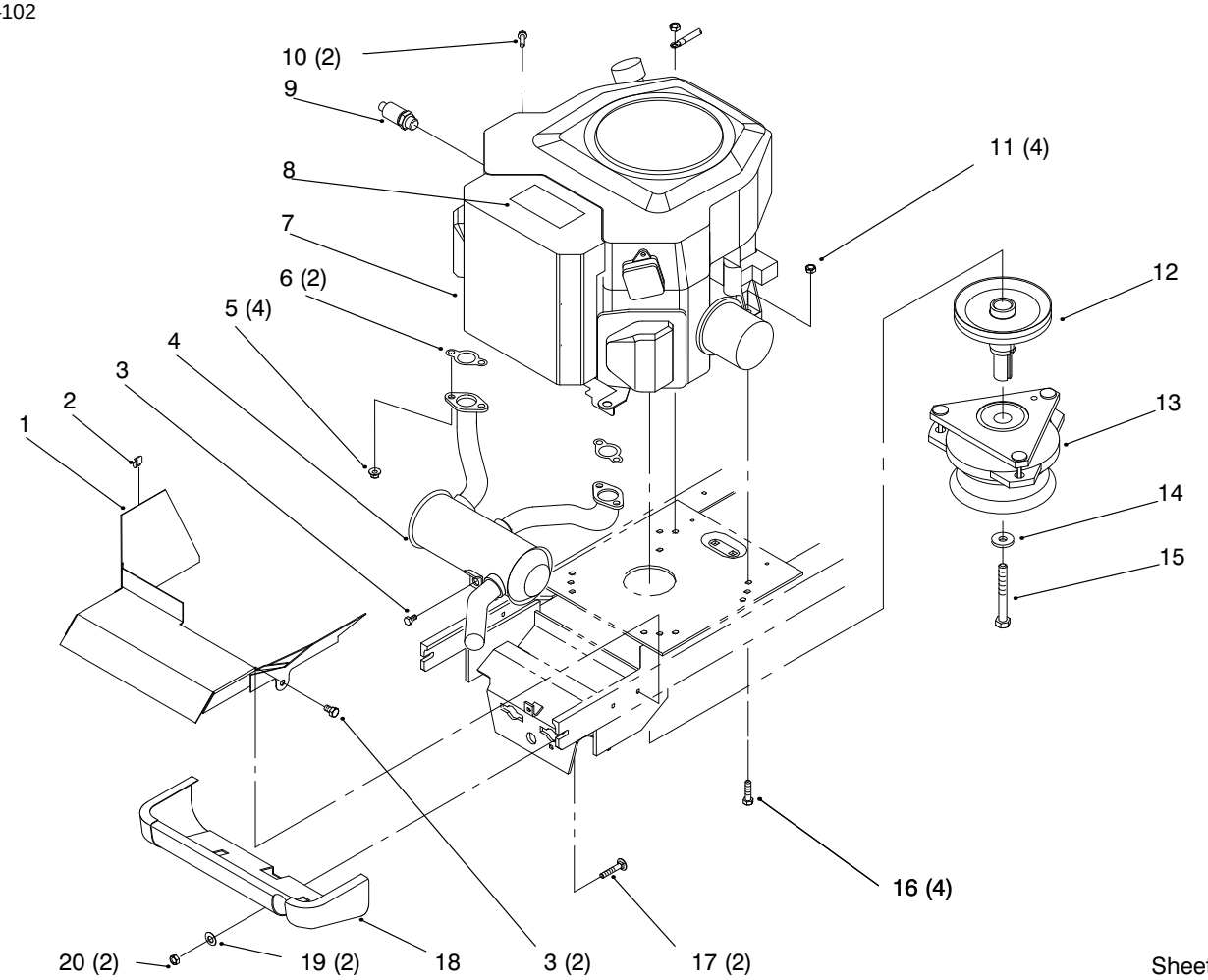



# Fender and Footrest

| 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 | 92–6746–01 | 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–Retainer |
| 21 | 92–6687 | 1 | Mat–Foot RH |
| 22 | 3230–23 | 3 | Bolt–CARR |
| 23 | 92–6725 | 1 | Decal–HOC (Only On: 72085) |
| 23 | 92–7092 | 1 | Decal–HOC (Only On: 72104) |
| 24 | 93–0489–01 | 1 | Plate–Footrest w/Decal (Only On: 72085) |
| 24 | 94–4243–01 | 1 | Plate–Footrest w/Decal (Only On: 72104) |
| 25 | 92–7020 | 4 | Screw–TTH |
| 26 | 92–8946 | 1 | Decal–Danger (Only On: 72085) |
| 26 | 93–7314 | 1 | Decal–Danger (Only On: 72104) |
| 27 | 76–1340 | 1 | Decal–USA (Only On: 72085) |
| 28 | 92–6795–01 | 1 | Fender |
| 29 | 3230–23 | 1 | Bolt–CARR |

* Not illustrated

3321–102



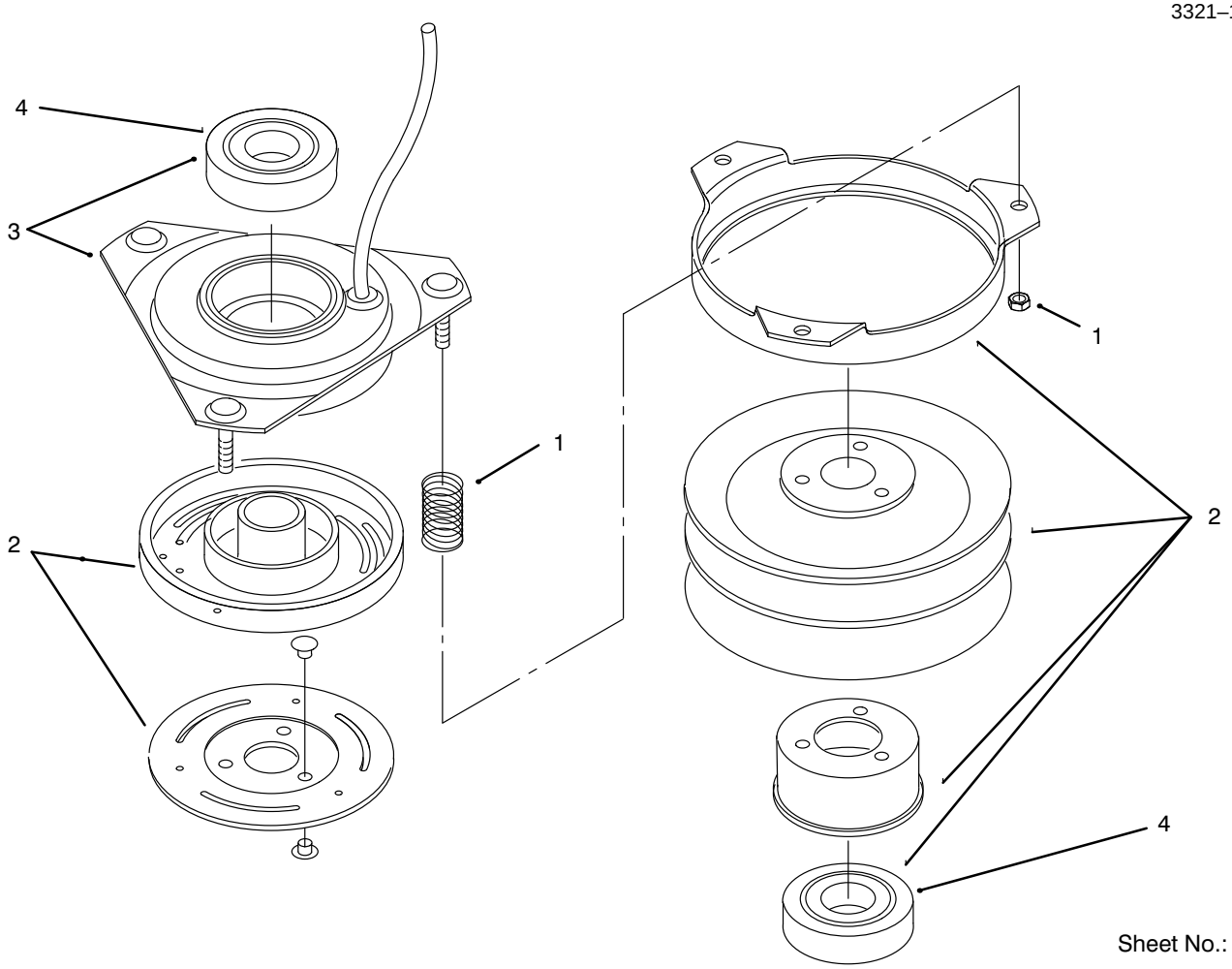

Sheet No.: 5

# 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 | 94–3331 | 1 | Engine–Kohler 17 (Only On: 72085) |
| 7 | 94–3332 | 1 | Engine–Kohler 17 (Only On: 72104) |
| 8 | 94–2971 | 1 | Decal–Toro Power Plus 17 |
| 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 | 92–6885 | 1 | Clutch–PTO (Only On: 72104) |
| 13 | 94–2514 | 1 | Clutch–Electric PTO (Only On: 72085) |
| 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 |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 19 | 3256–24 | 2 | Washer–Flat |
| 20 | 3296–39 | 2 | Nut–Lock |

3321–102




Sheet No.: 501

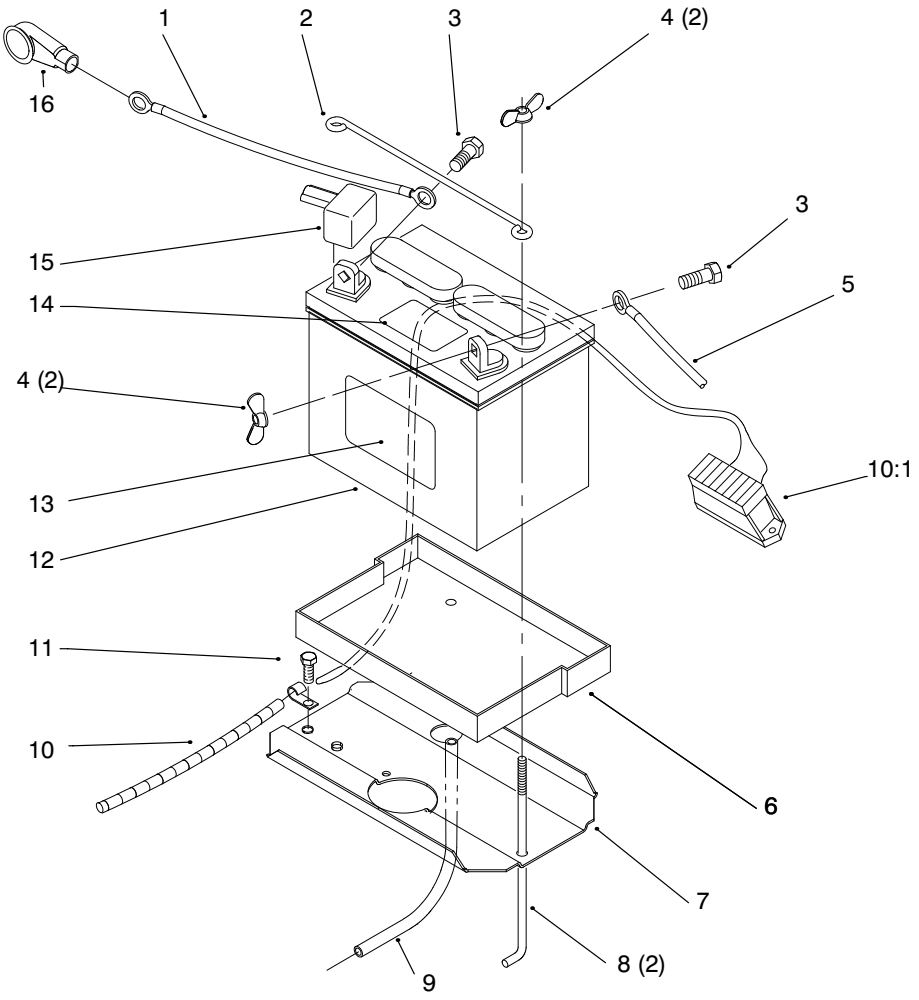
# Clutch 92–6885

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 92–3014 | 3 | Nut & Spring ASM |
| 2 | 92–3015 | 1 | Rotor ASM w/Bearing (Only On: 72104) |
| 2 | 94–4930 | 1 | Rotor & Armature ASM (Only On: 72085) |
| 3 | 92–3016 | 1 | Field ASM w/Bearing |
| 4 | 114064 | 2 | Bearing–Elec Clutch |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

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

3321–102

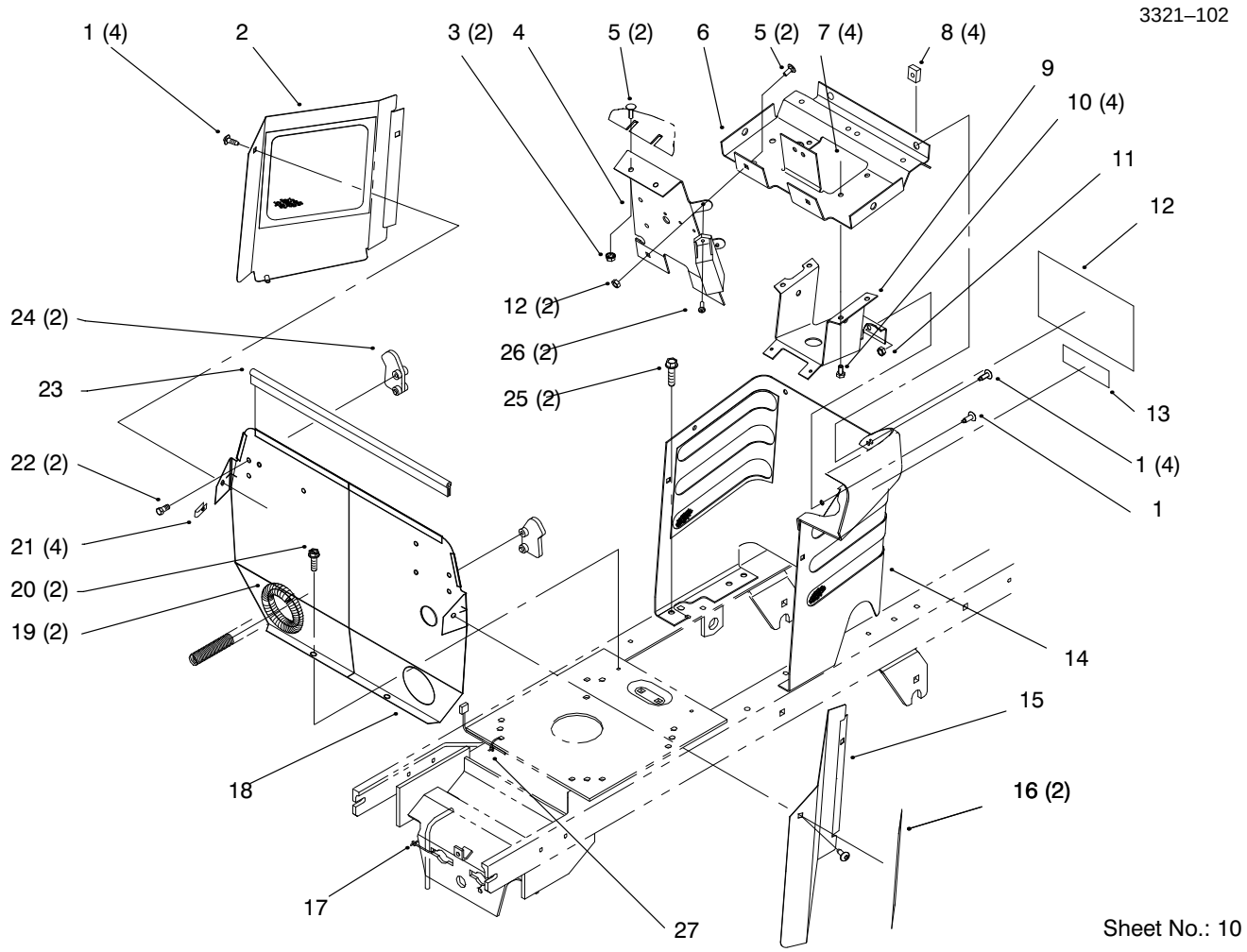



Sheet No.: 6

# 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 | 94–2861 | 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 |
| 13 | 93–6668 | 1 | Decal–Instruct (Only On: 72104) |
| 14 | 93–7276 | 1 | Decal–Danger (Only On: 72104) |
| 15 | 109553 | 1 | Boot–Battery Cable |
| 16 | 93–3190 | 1 | Boot–Terminal Insulator |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

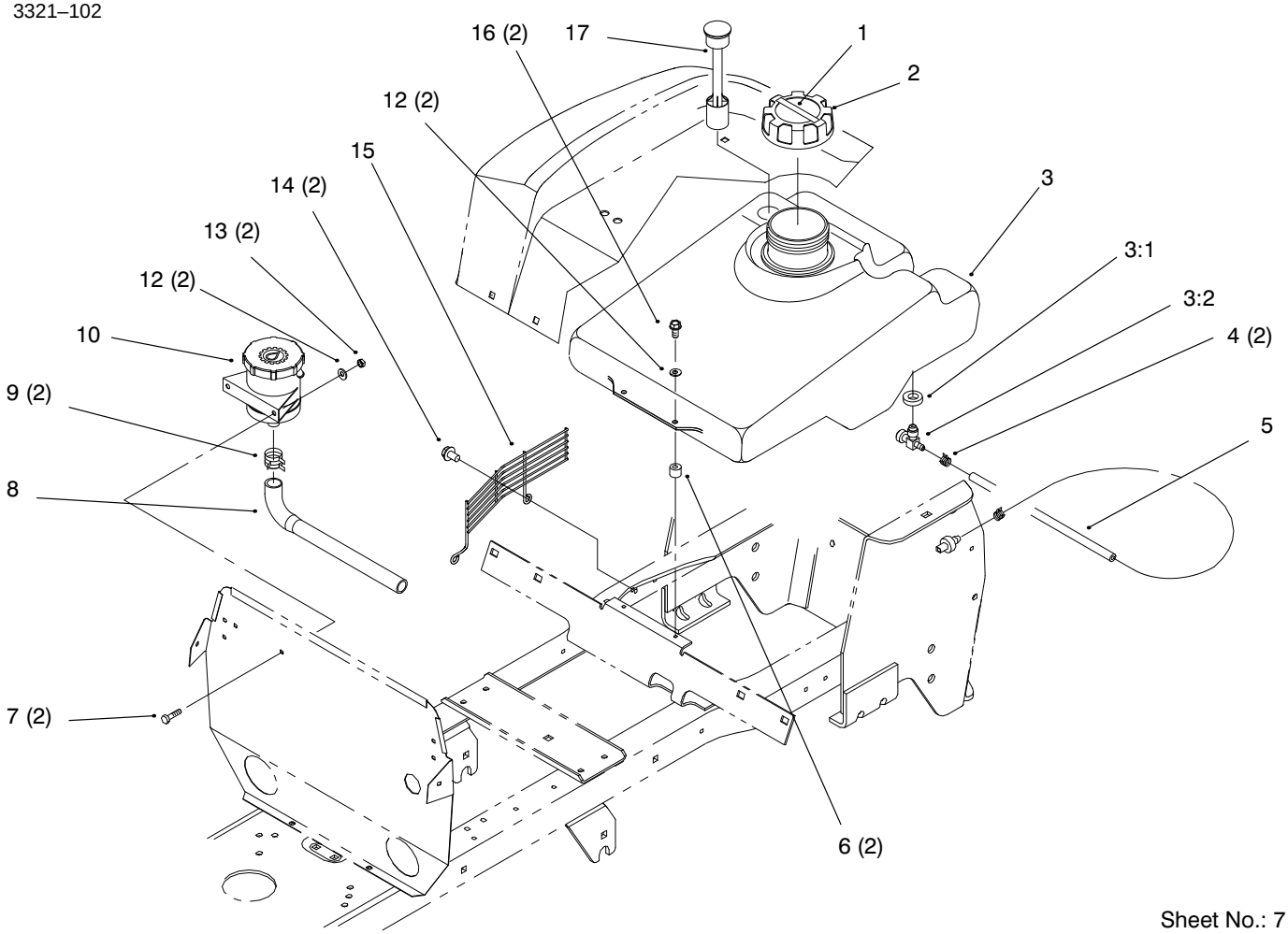



# Hoodstand and Firewall

| 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: 72085) |
| 12 | 93–7313 | 1 | Decal–Danger (Only On: 72104) |
| 13 | 83–6620 | 1 | Decal–Instruction |
| 14 | 93–0486–03 | 1 | Hoodstand w/Decals (Only On: 72085) |
| 14 | 93–0488–03 | 1 | Hoodstand w/Decals (Only On: 72104) |
| 15 | 92–6936–03 | 1 | Cover–Side LH |
| 16 | 95–0805 | 2 | Decal–267–H |
| 17 | 614249 | 1 | Tie–Strap |
| 18 | 94–1749–03 | 1 | Firewall |
| 19 | 24–7924 | 2 | Cover–Drive Shaft |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 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 |

3321–102



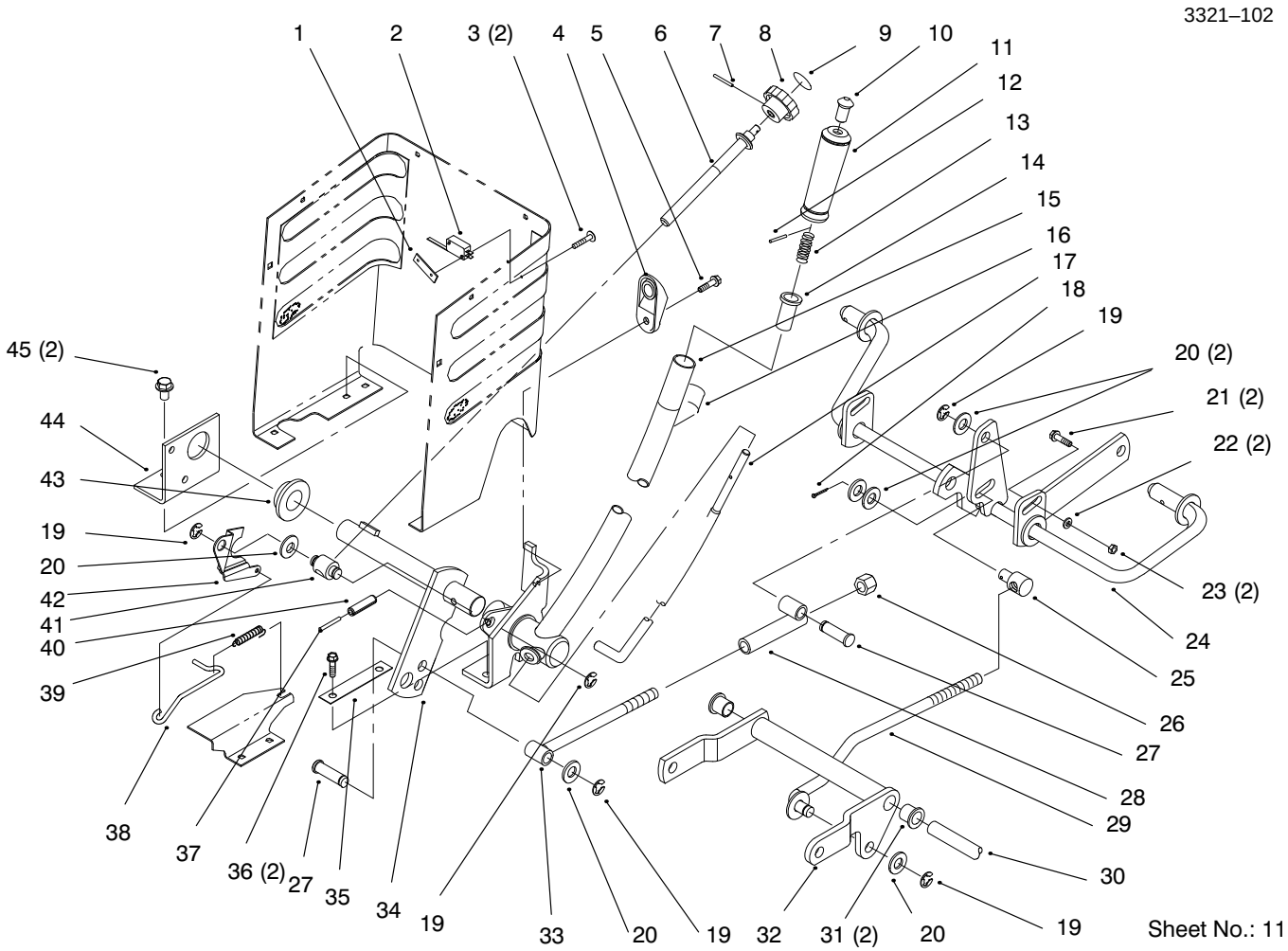

Sheet No.: 7

# 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: 72104) |
| 15 | 93–9275 | 1 | Guard–Fan (Only On: 72104) |
| 16 | 32104–96 | 2 | Screw–HHST |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

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

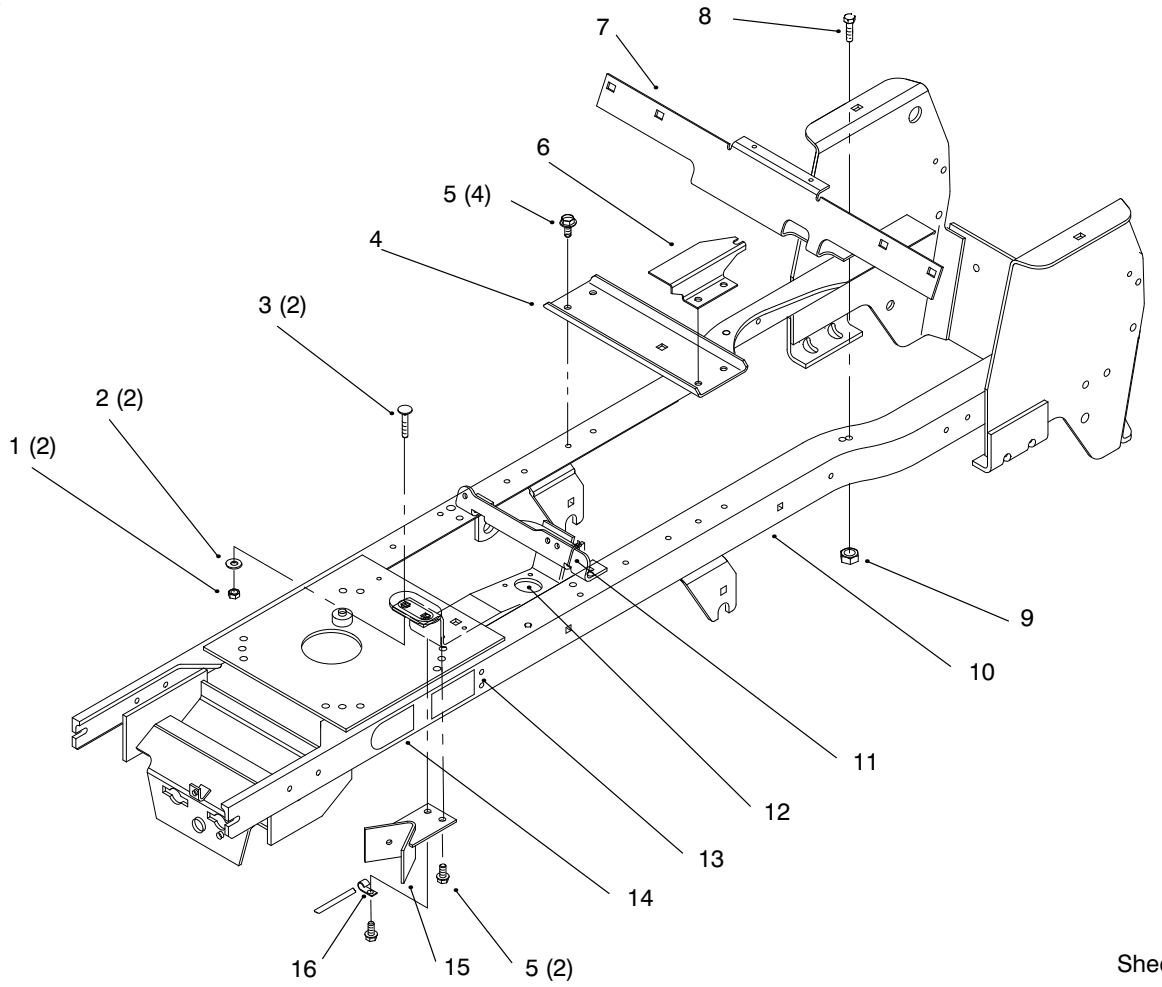



# Lift Lever and Height of Cut

| 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: 72085) |
| 16 | 93–7323 | 1 | Decal–Lift (Only On: 72104) |
| 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–Flt |
| 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 | 32144–14 | 2 | Screw–HWH |

3321–102



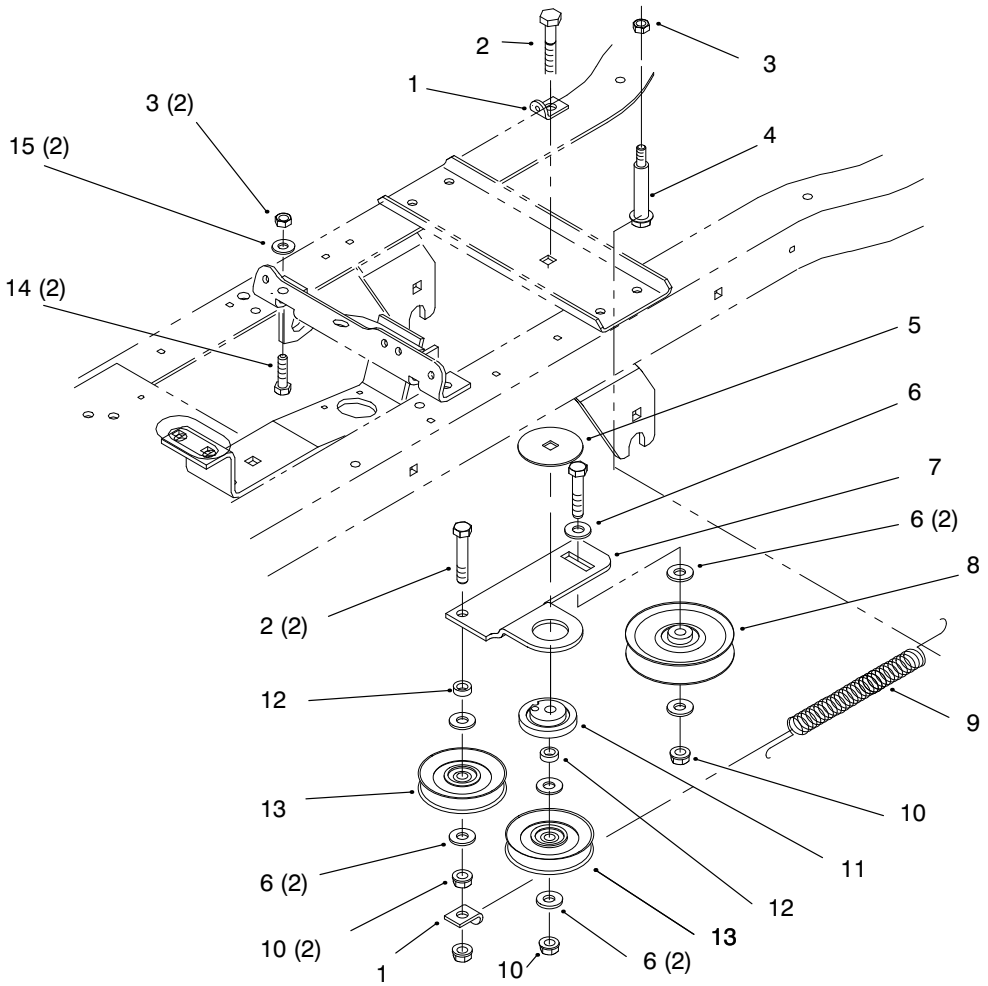

Sheet No.: 14

# 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 |
| 13 | 93–7324 | 2 | Decal–Installation (Only On: 72104) |
| 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 |
|---|---|---|---|

3321–102



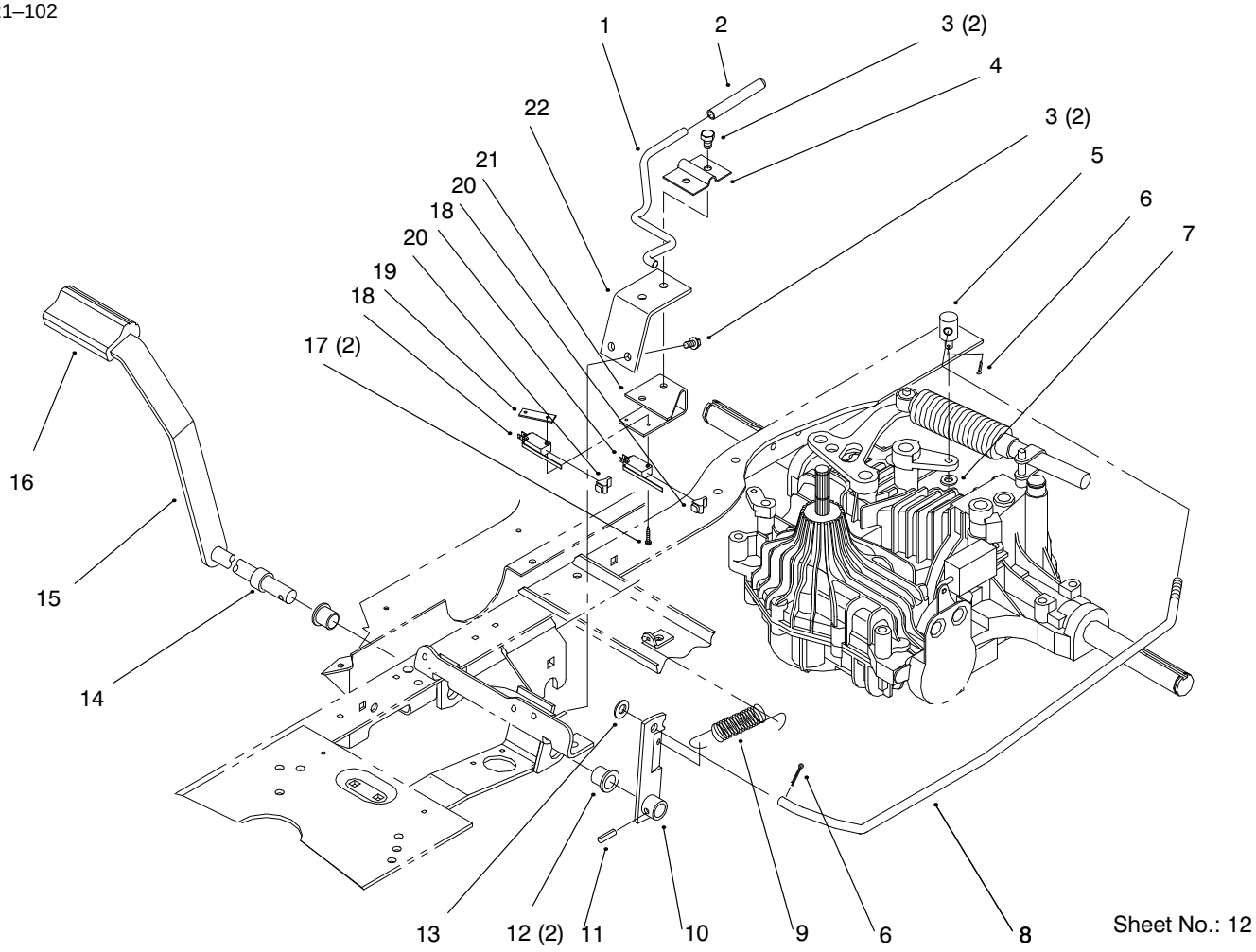

Sheet No.: 3

# 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 |
|---|---|---|---|

3321–102



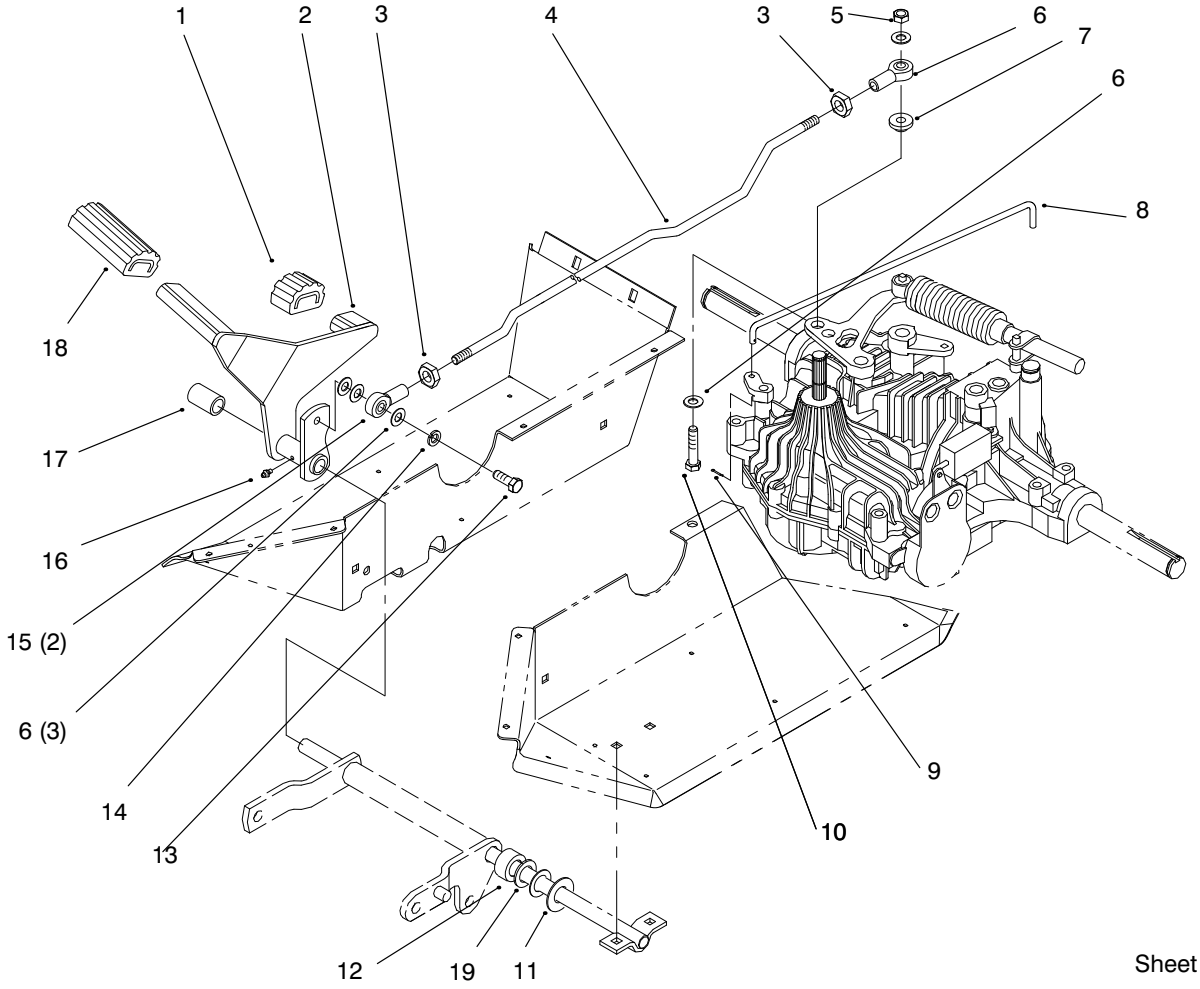

Sheet No.: 12

# 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 |
|---|---|---|---|

3321–102



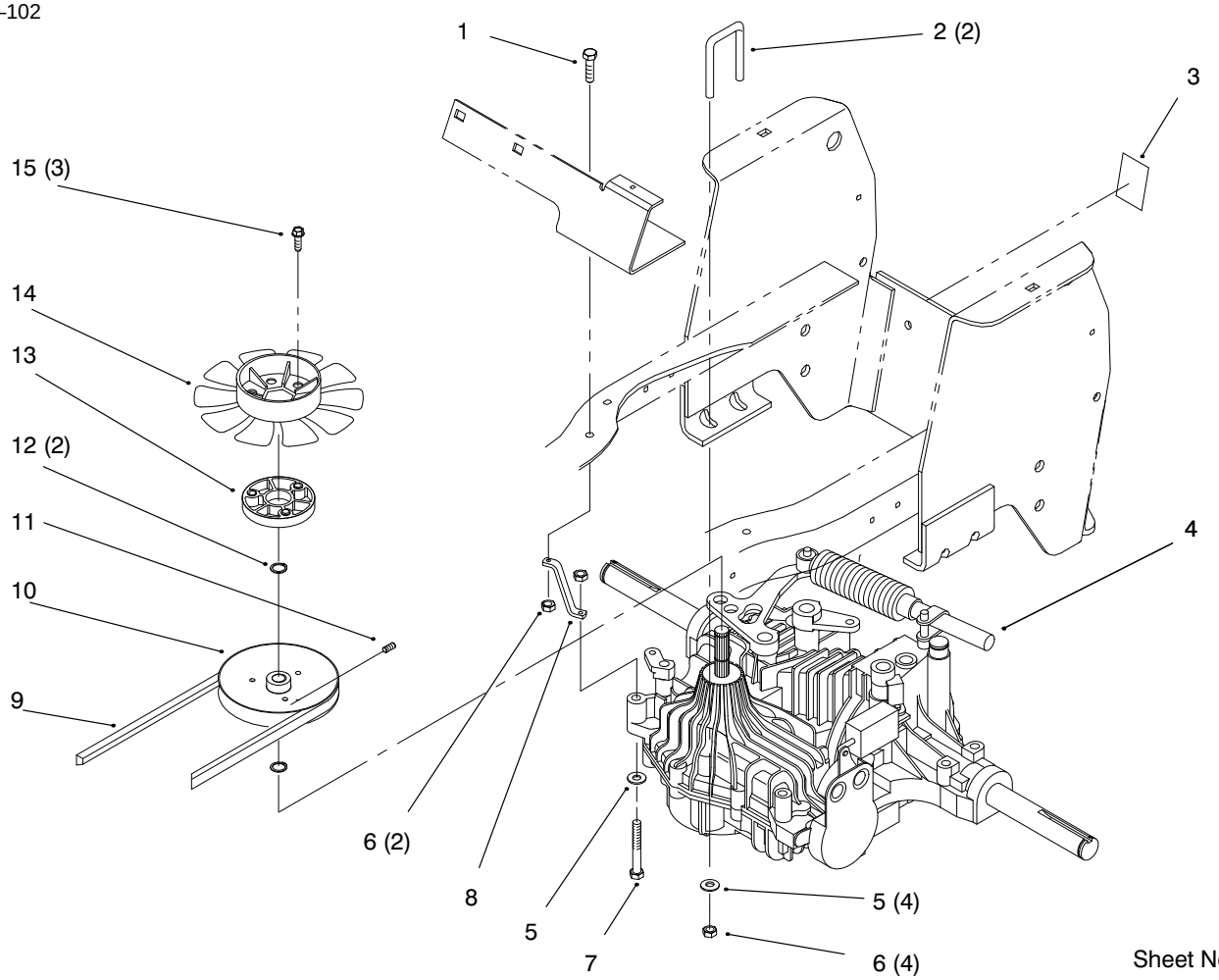

Sheet No.: 13

# 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 |
|---|---|---|---|

3321–102

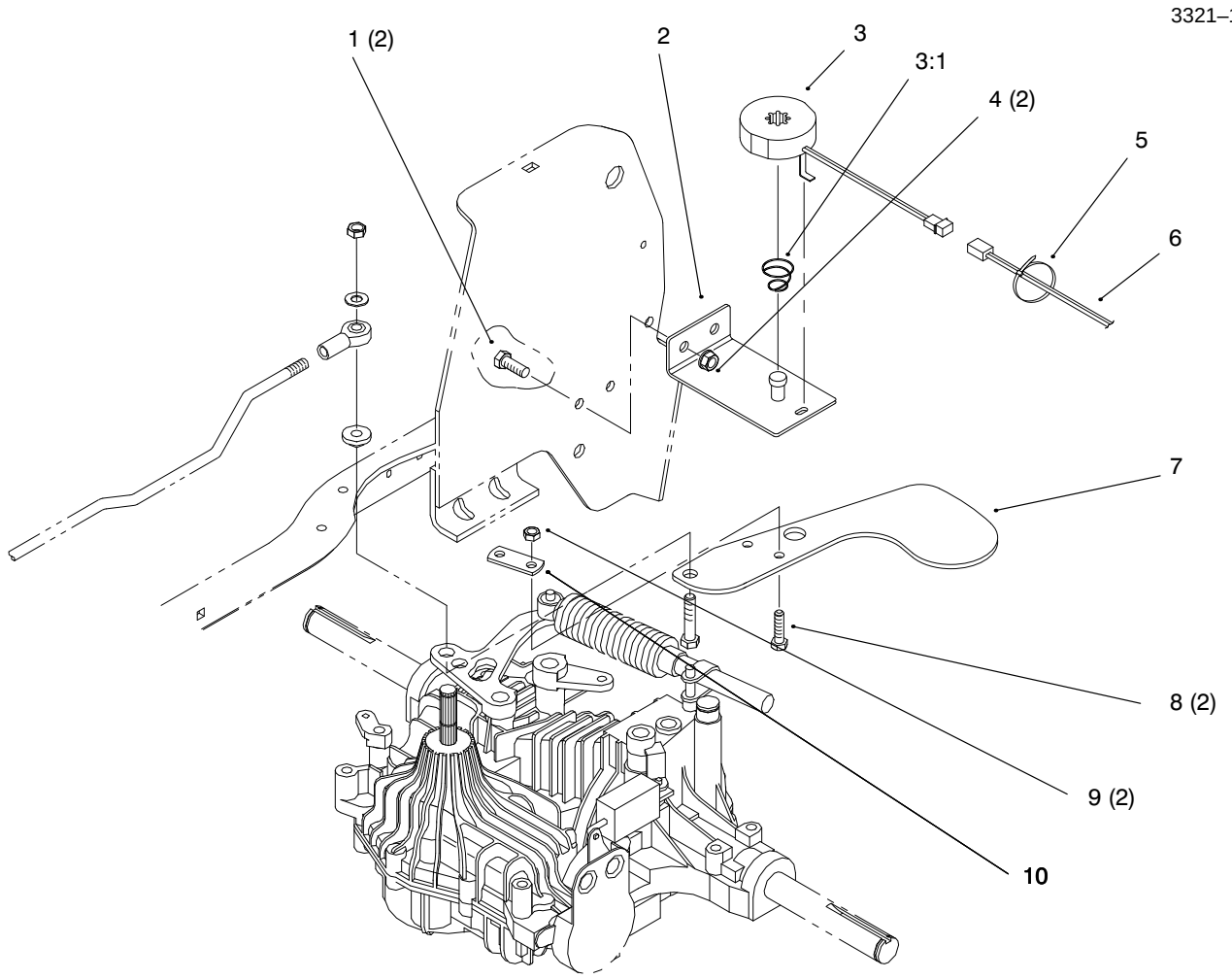



Sheet No.: 15

# 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 |
|---|---|---|---|

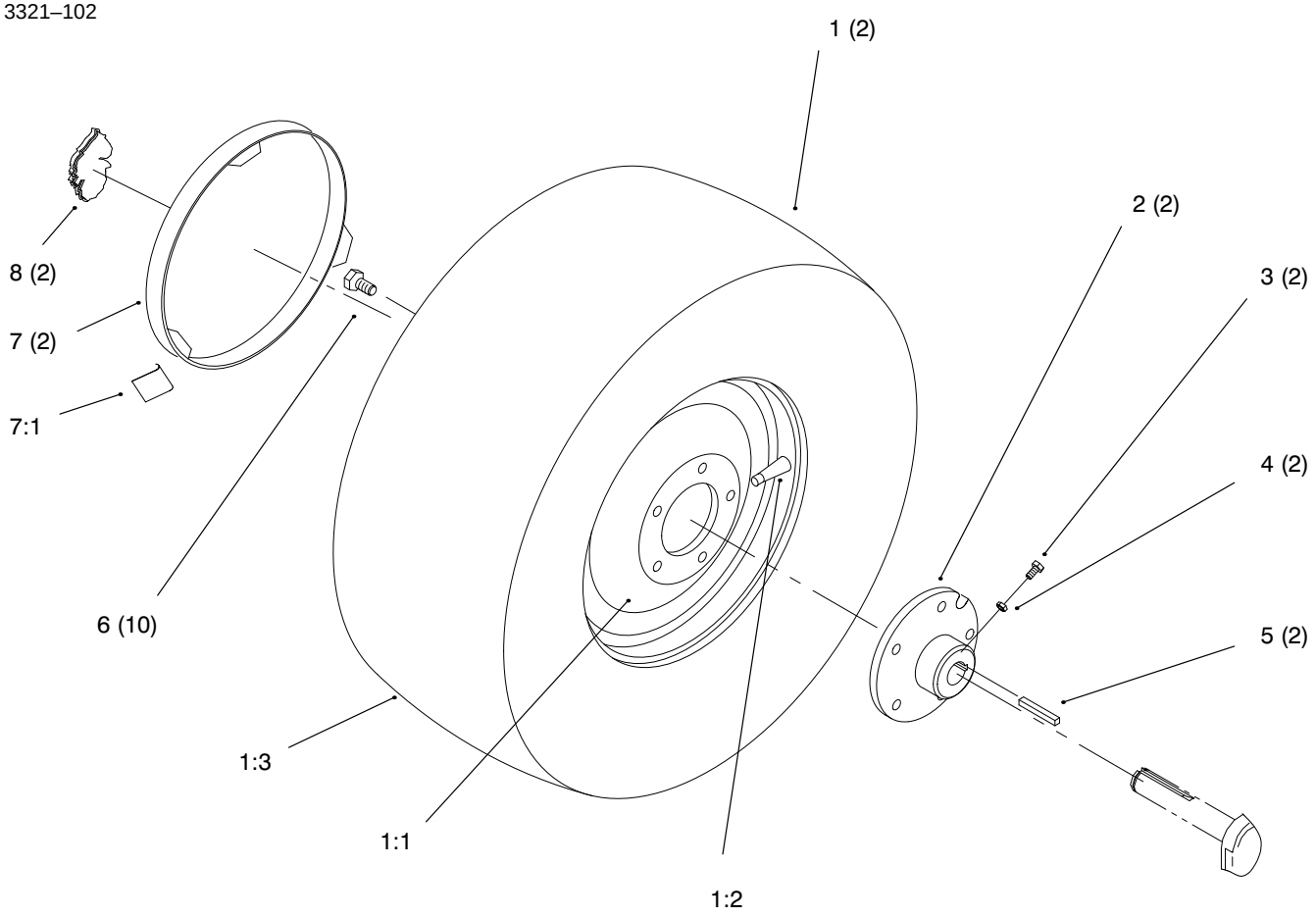



# Cruise Control

| 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 |
| 6 | 93–4364 | 1 | Harness–Wire |
| 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 |
|---|---|---|---|

3321–102



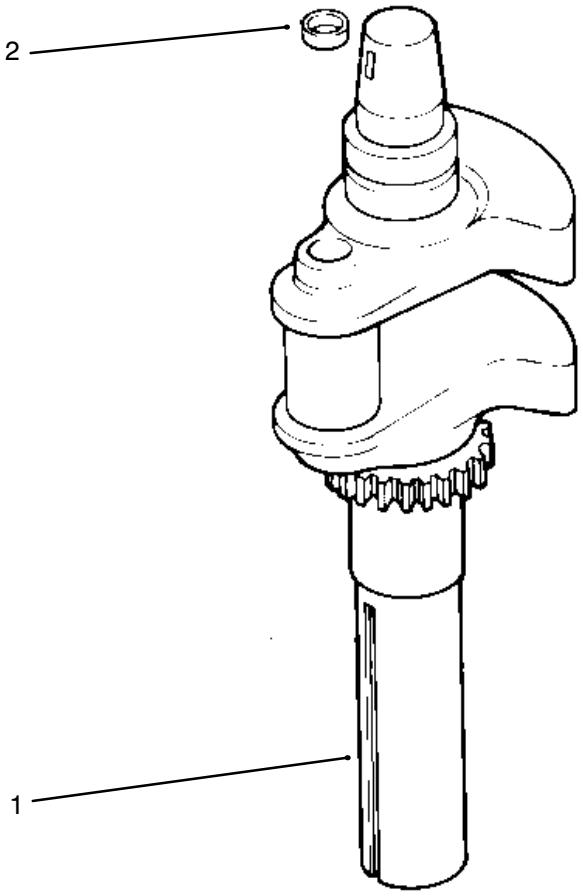

Sheet No.: 24

# 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 |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

☆ Not serviced

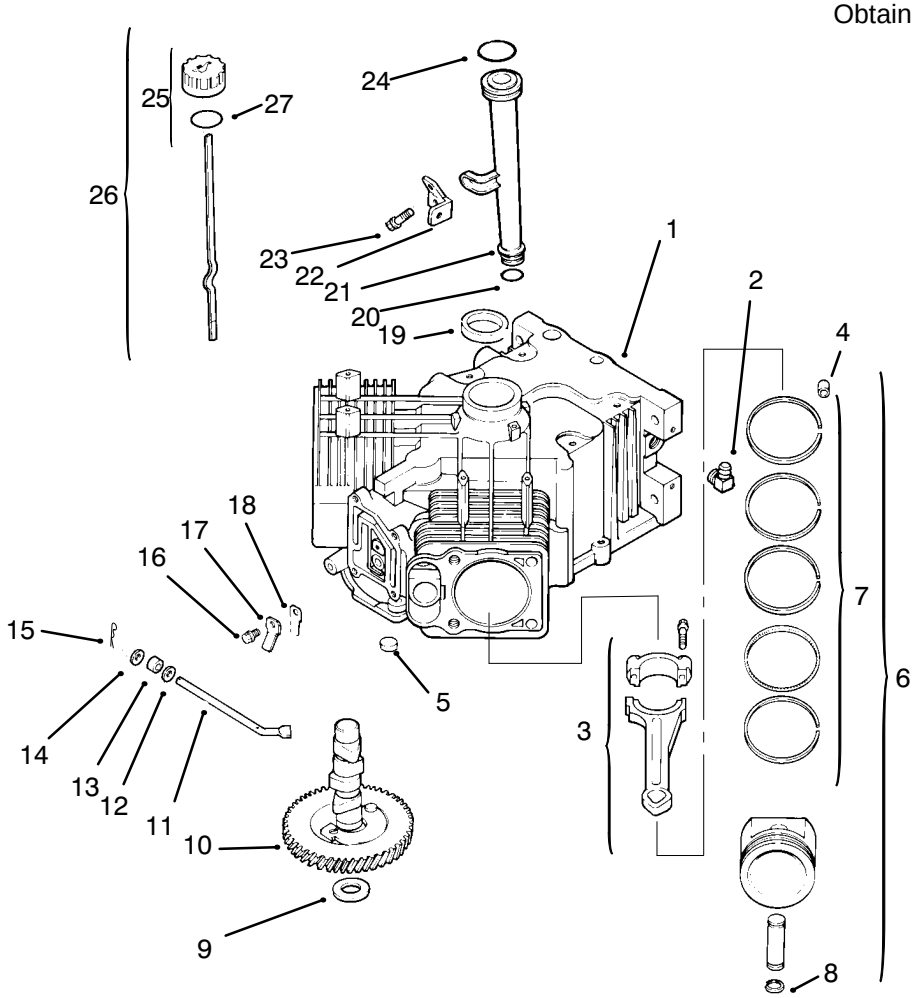



Sheet No.: 201

# 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 |
|---|---|---|---|



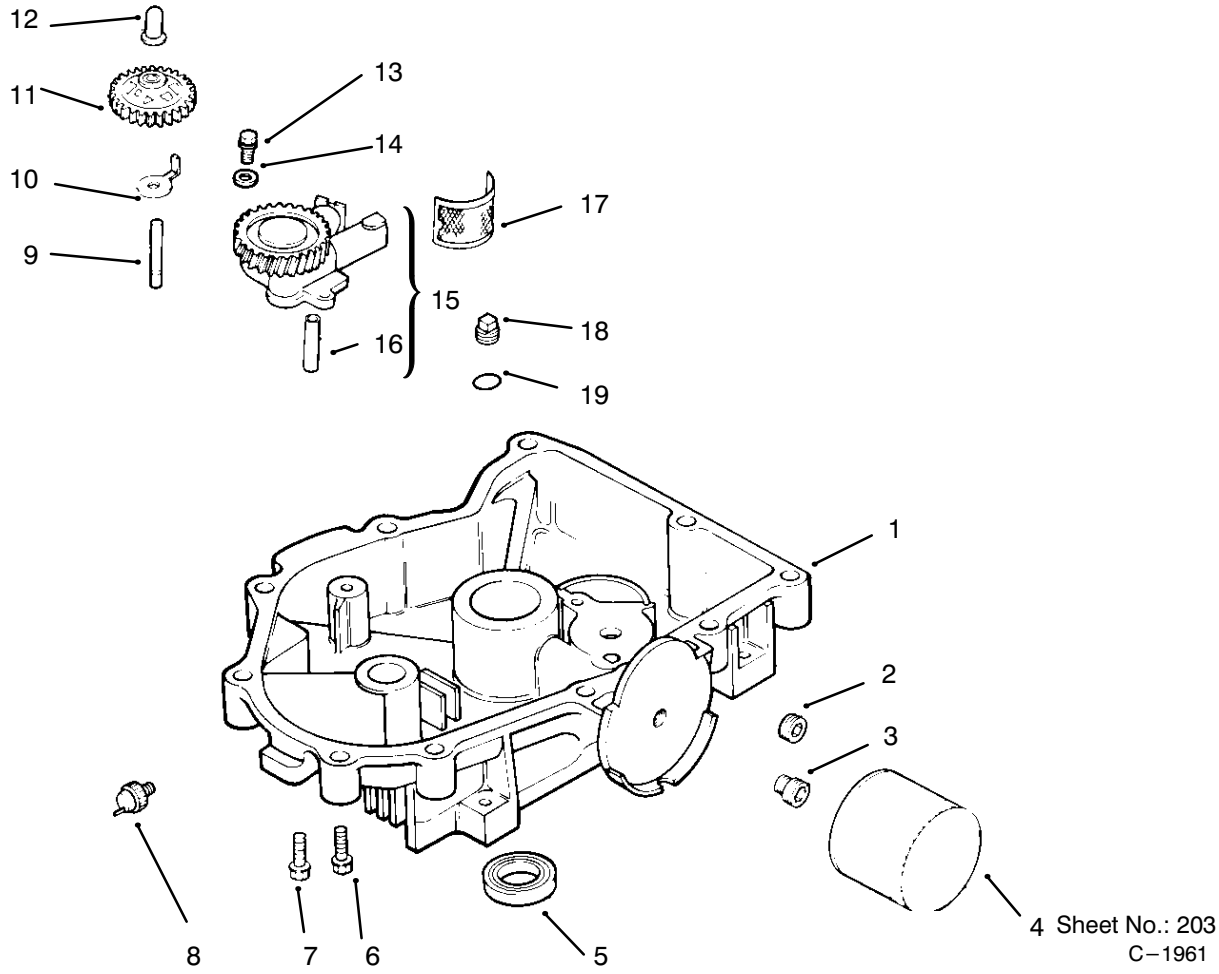

Sheet No.: 202
C–1960

# 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



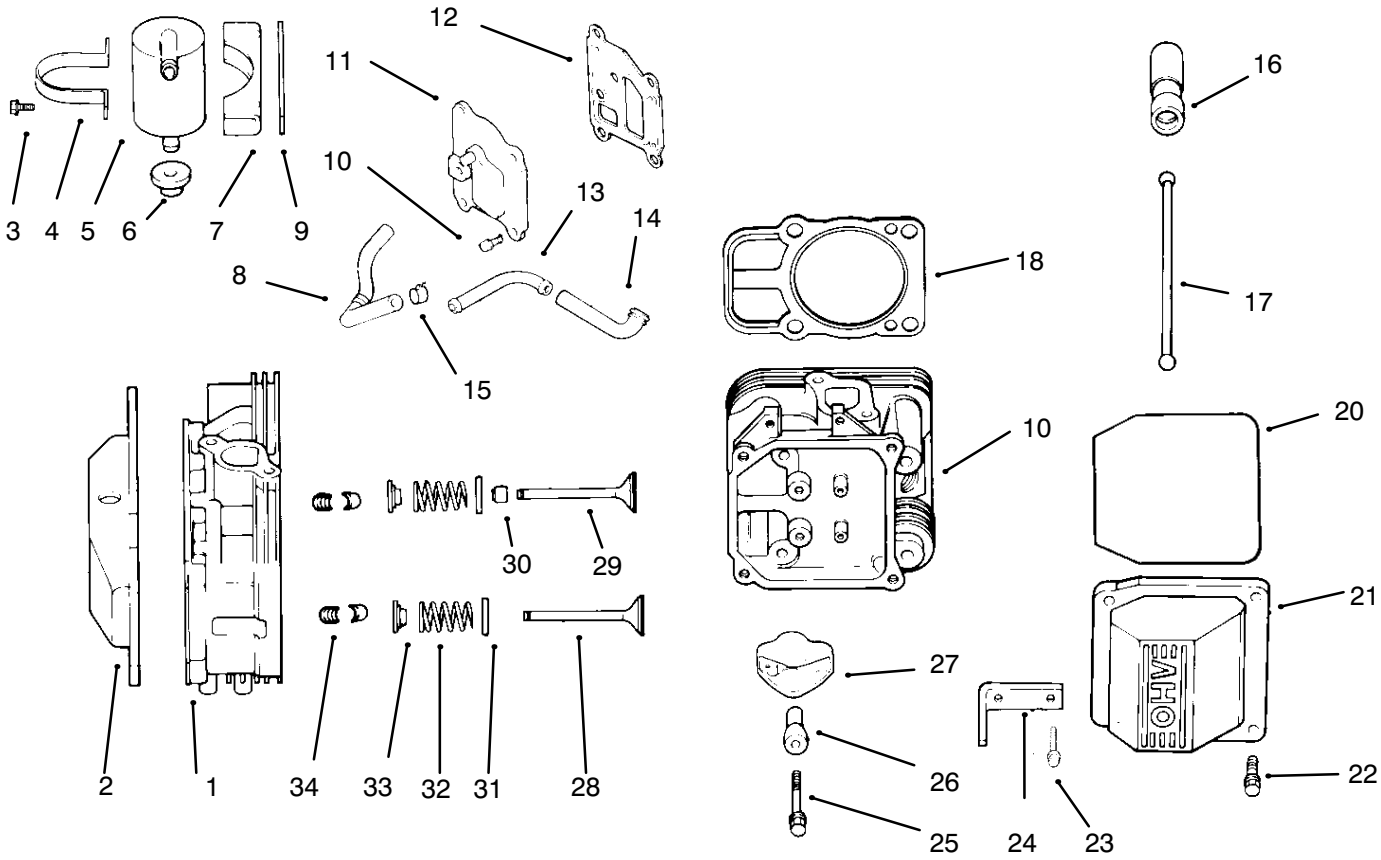

Sheet No.: 203
C–1961

# 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

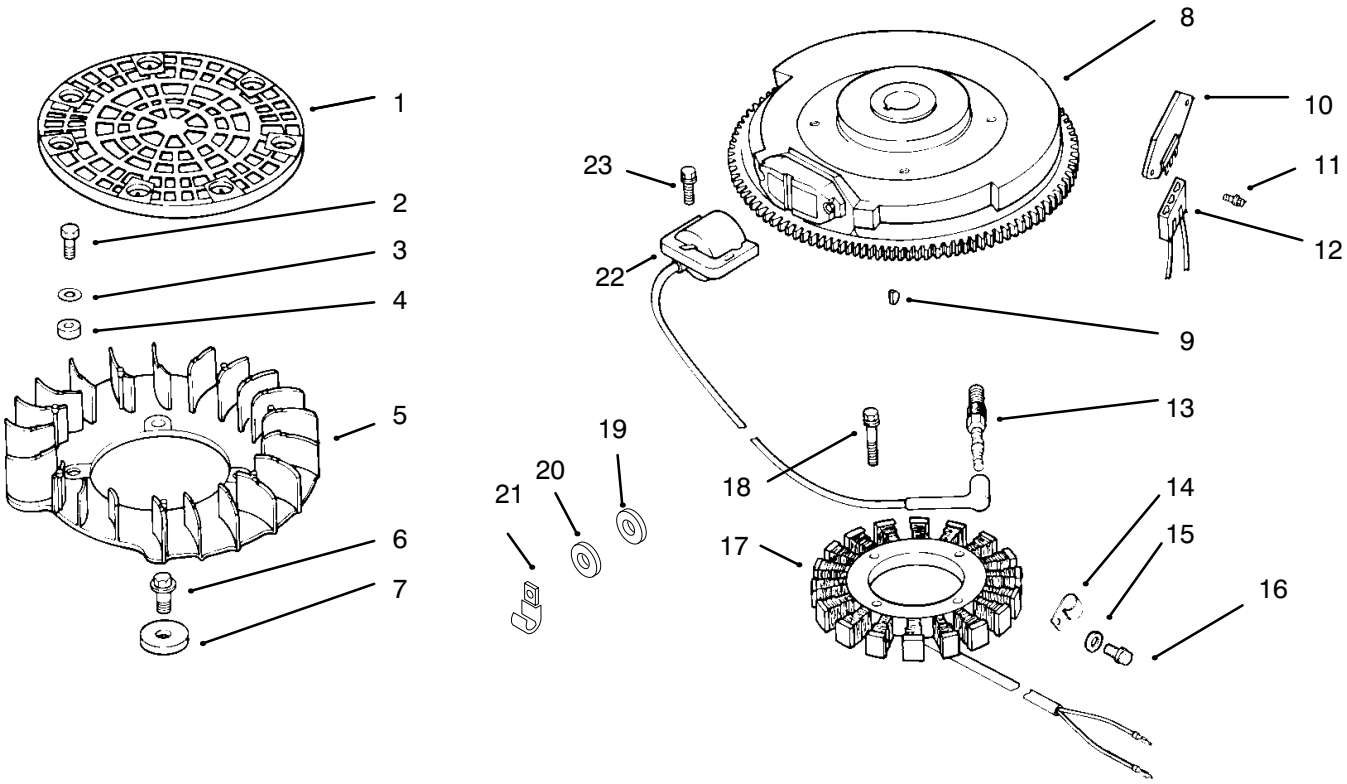



Sheet No.: 204

# 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 |



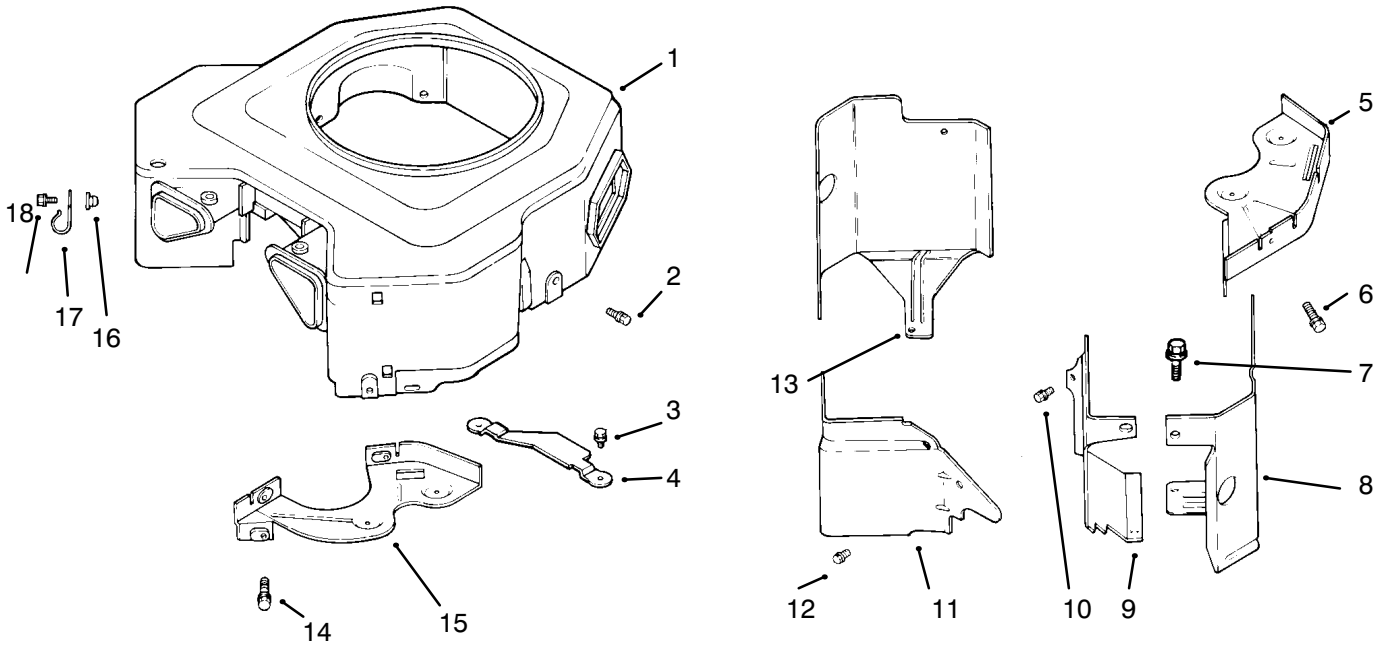

Sheet No.: 205
C–1963

# 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



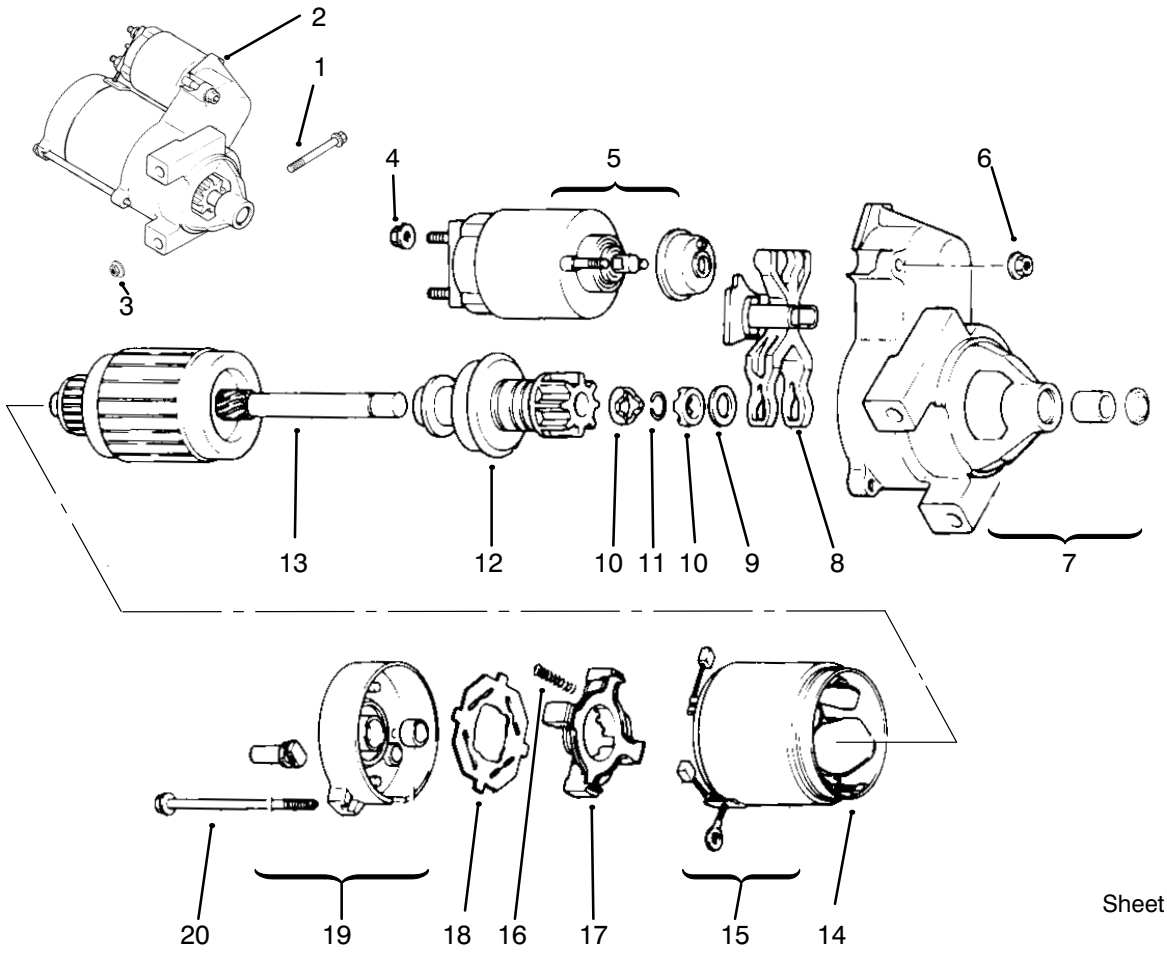

Sheet No.: 206
C–1964

# 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



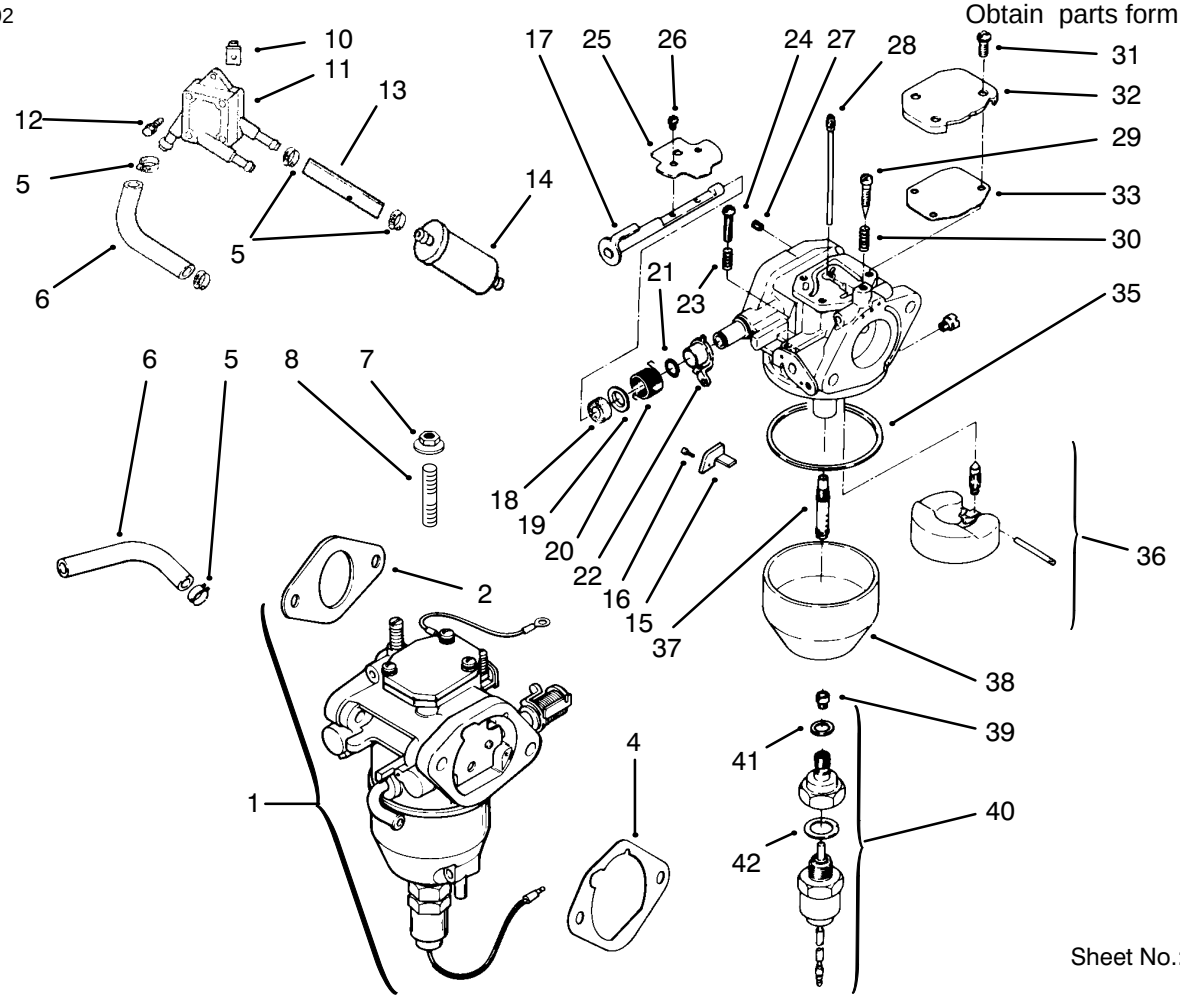

Sheet No.: 207
C–1965

# 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



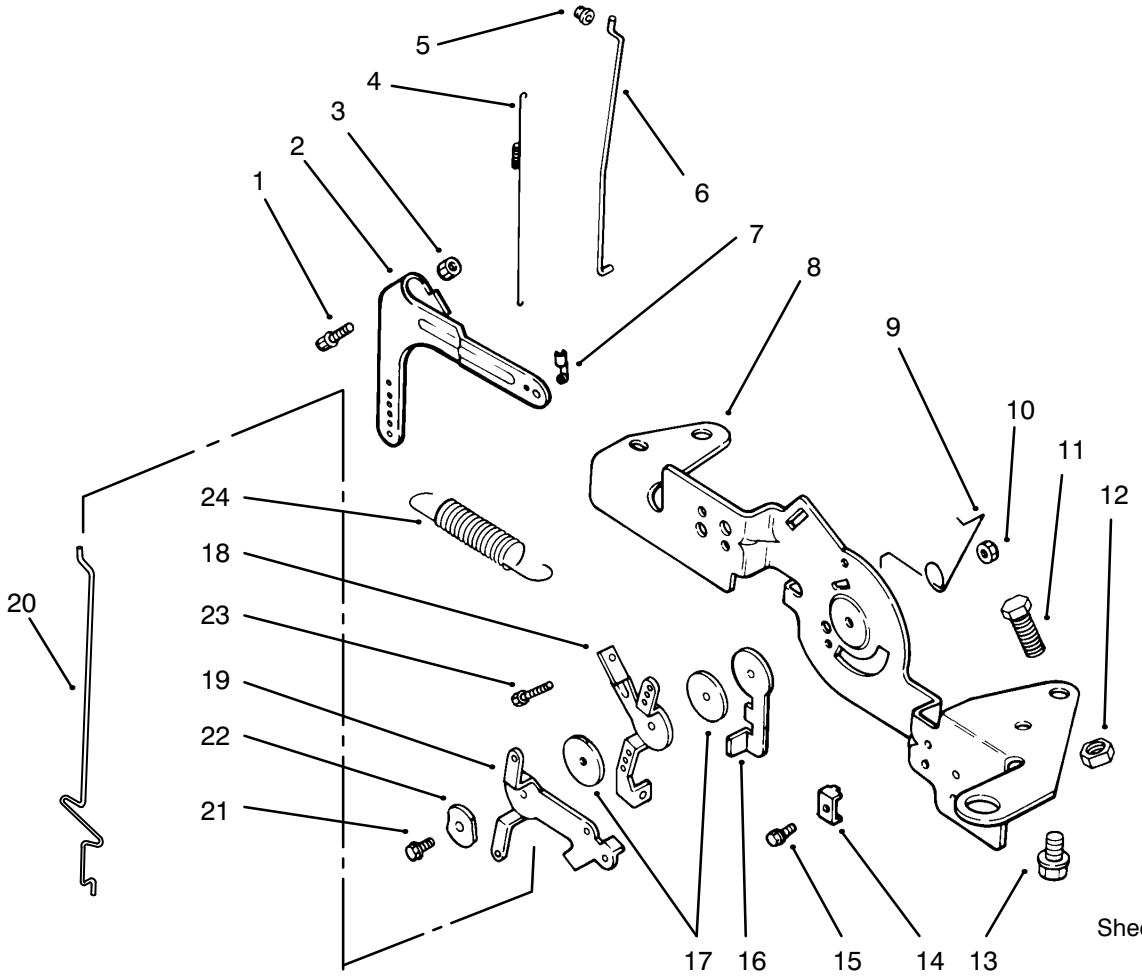

Sheet No.: 208

# 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

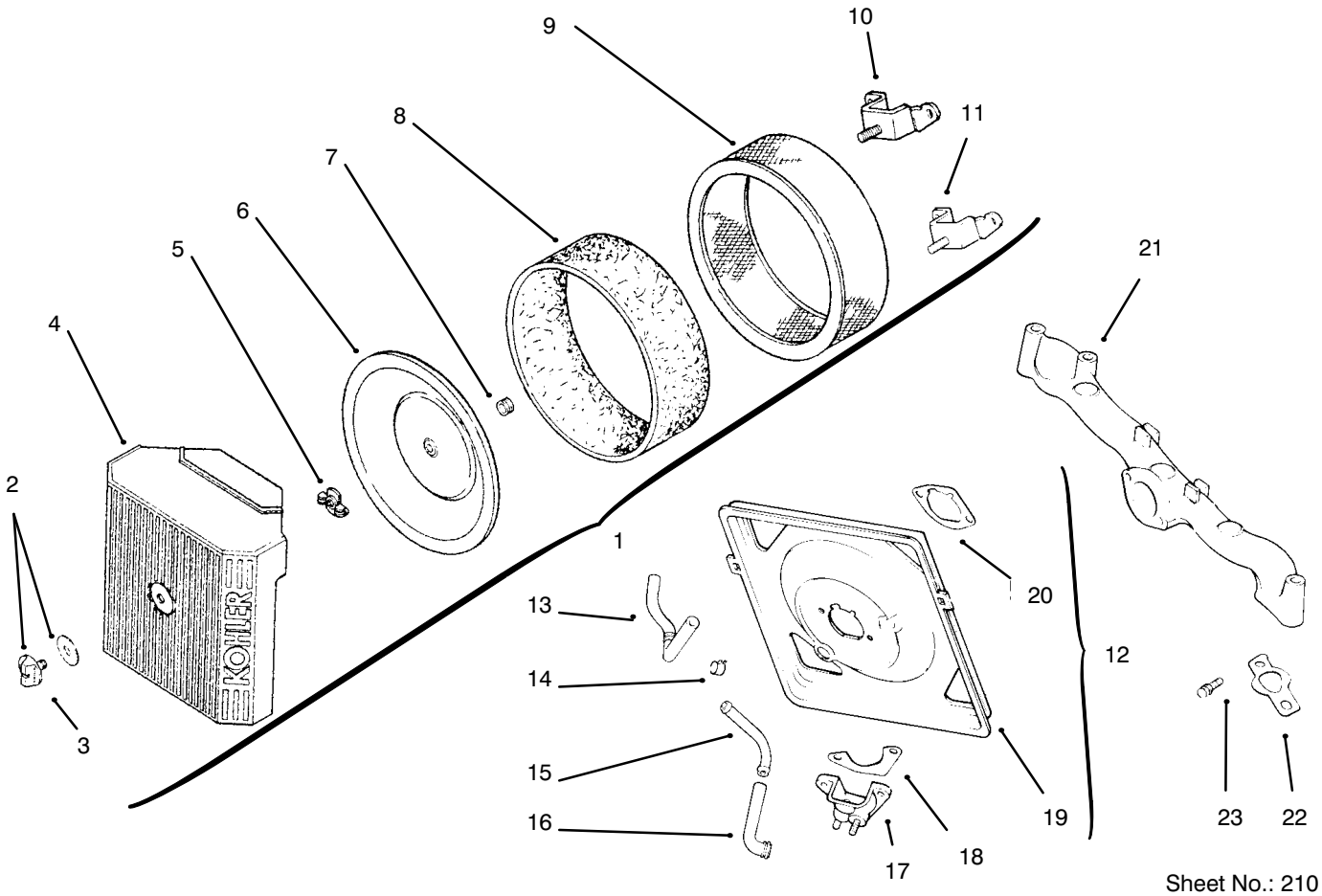



Sheet No.: 209
C–1967

# 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 |
|---|---|---|---|

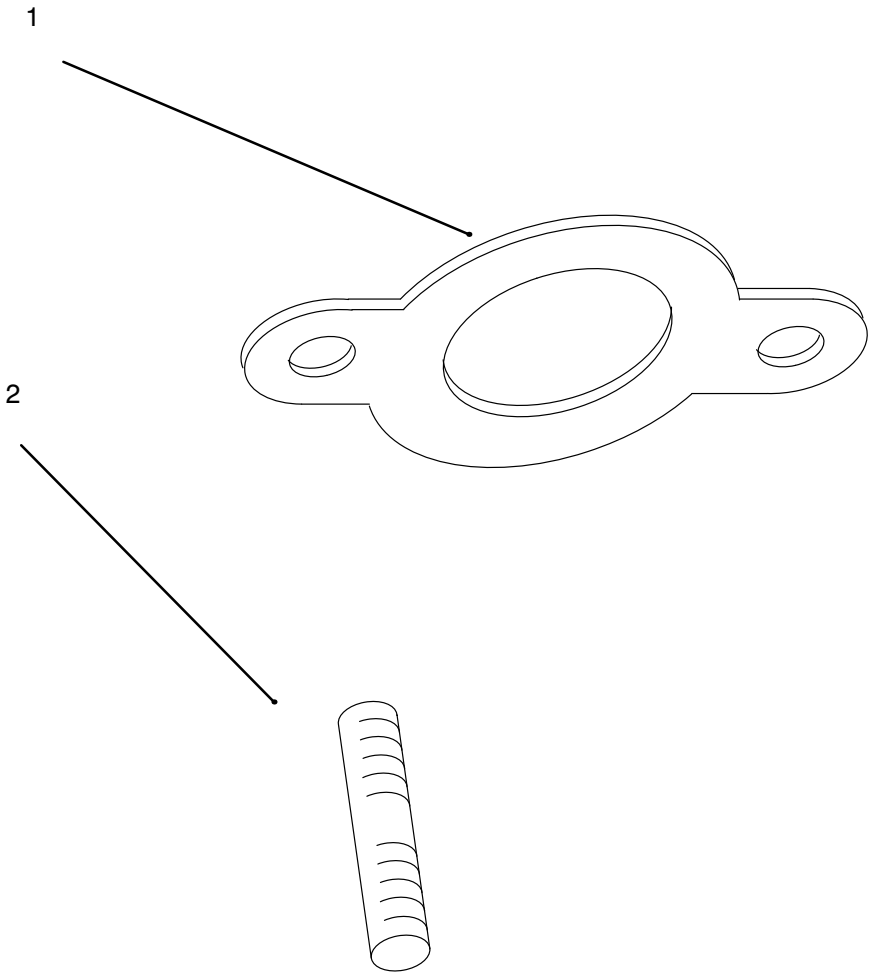



Sheet No.: 210

# 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 |



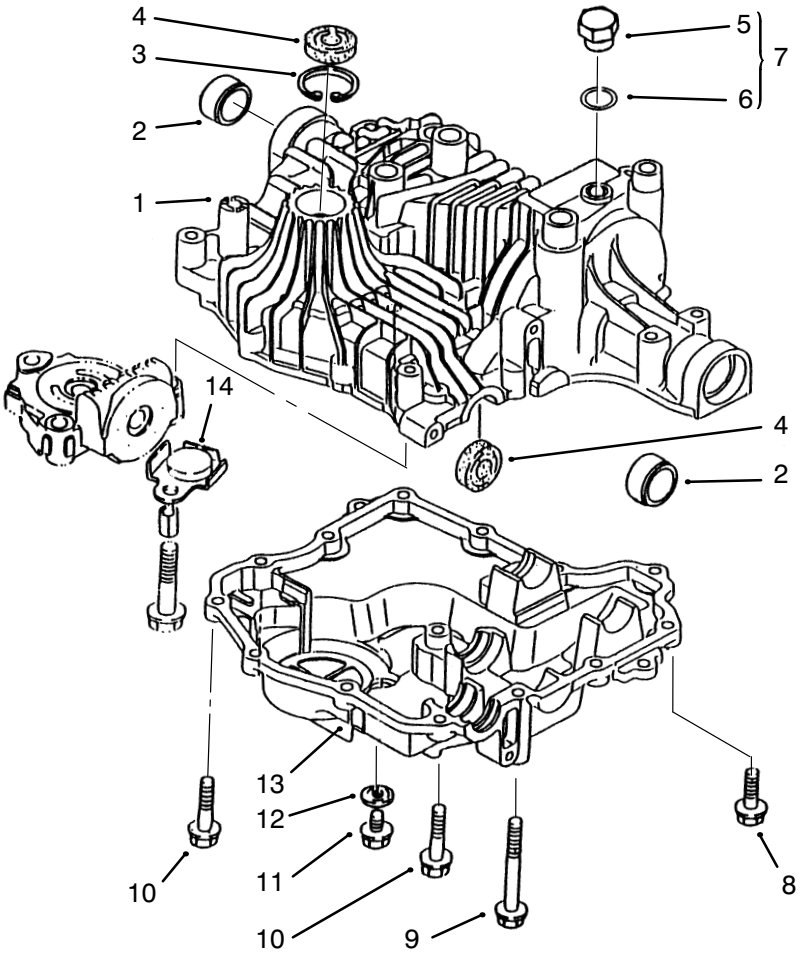

Sheet No.: 211

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

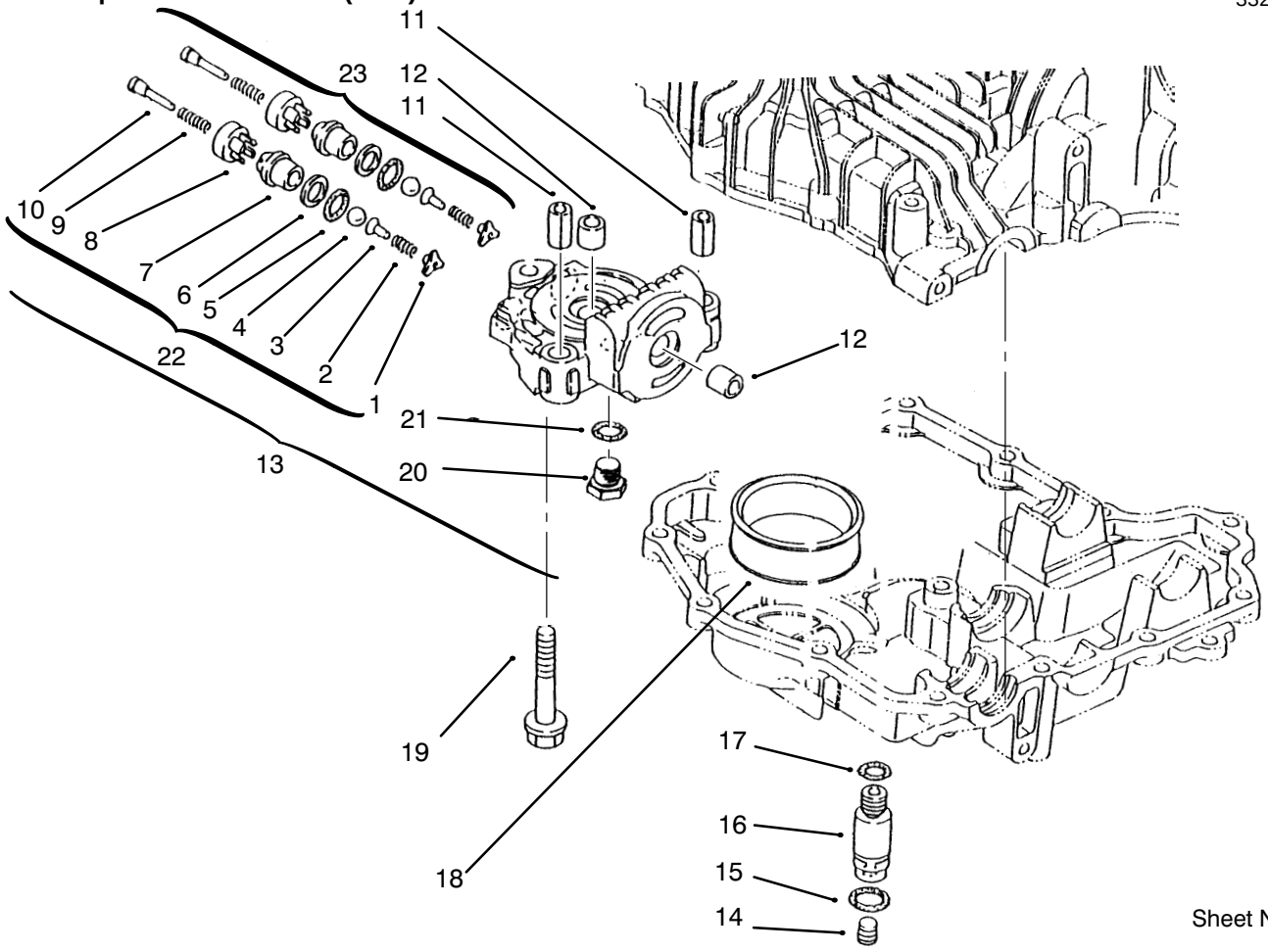
c–1860

# 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 |
| 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




Sheet No.: 402

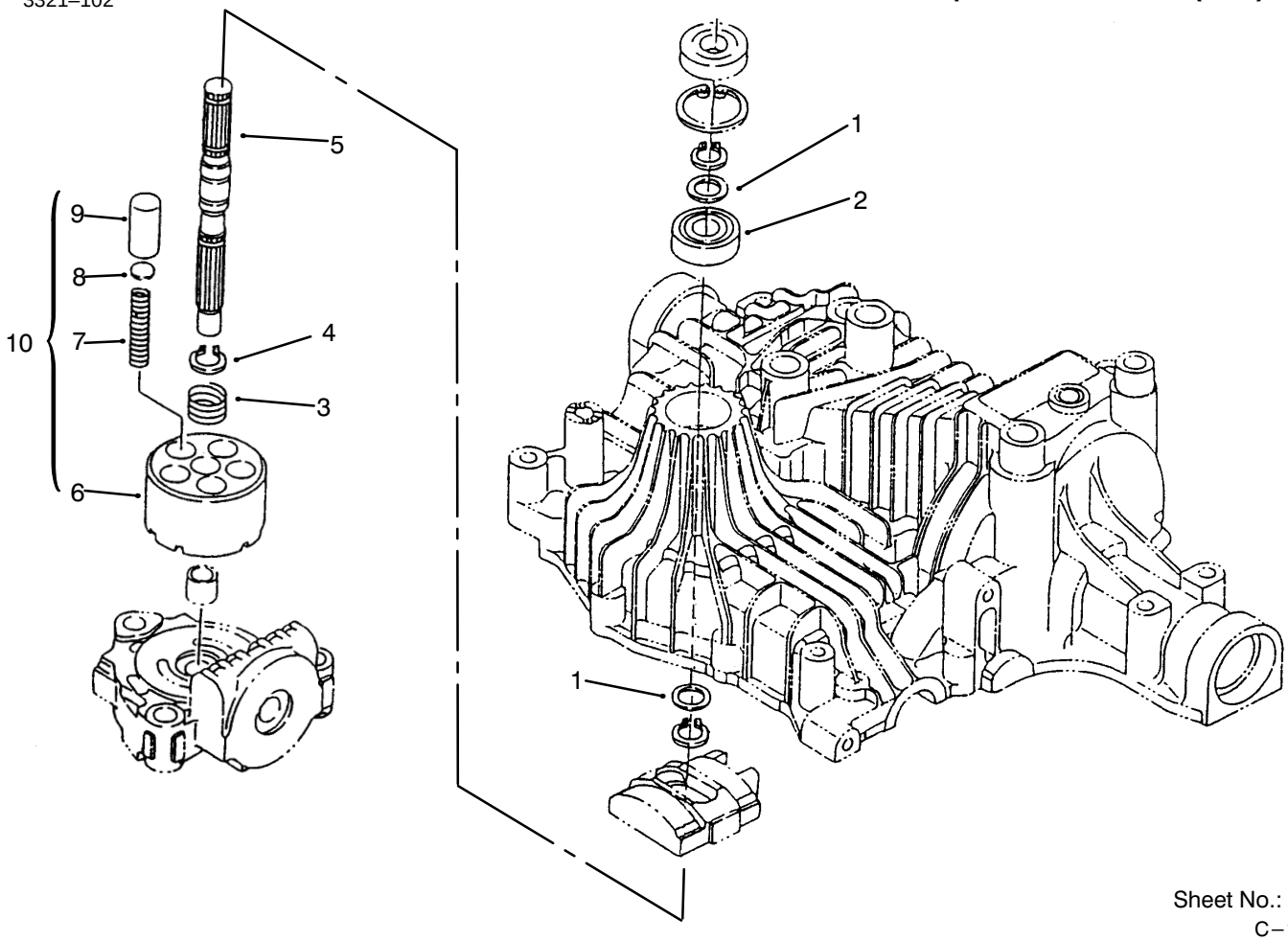
c–1877

# 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

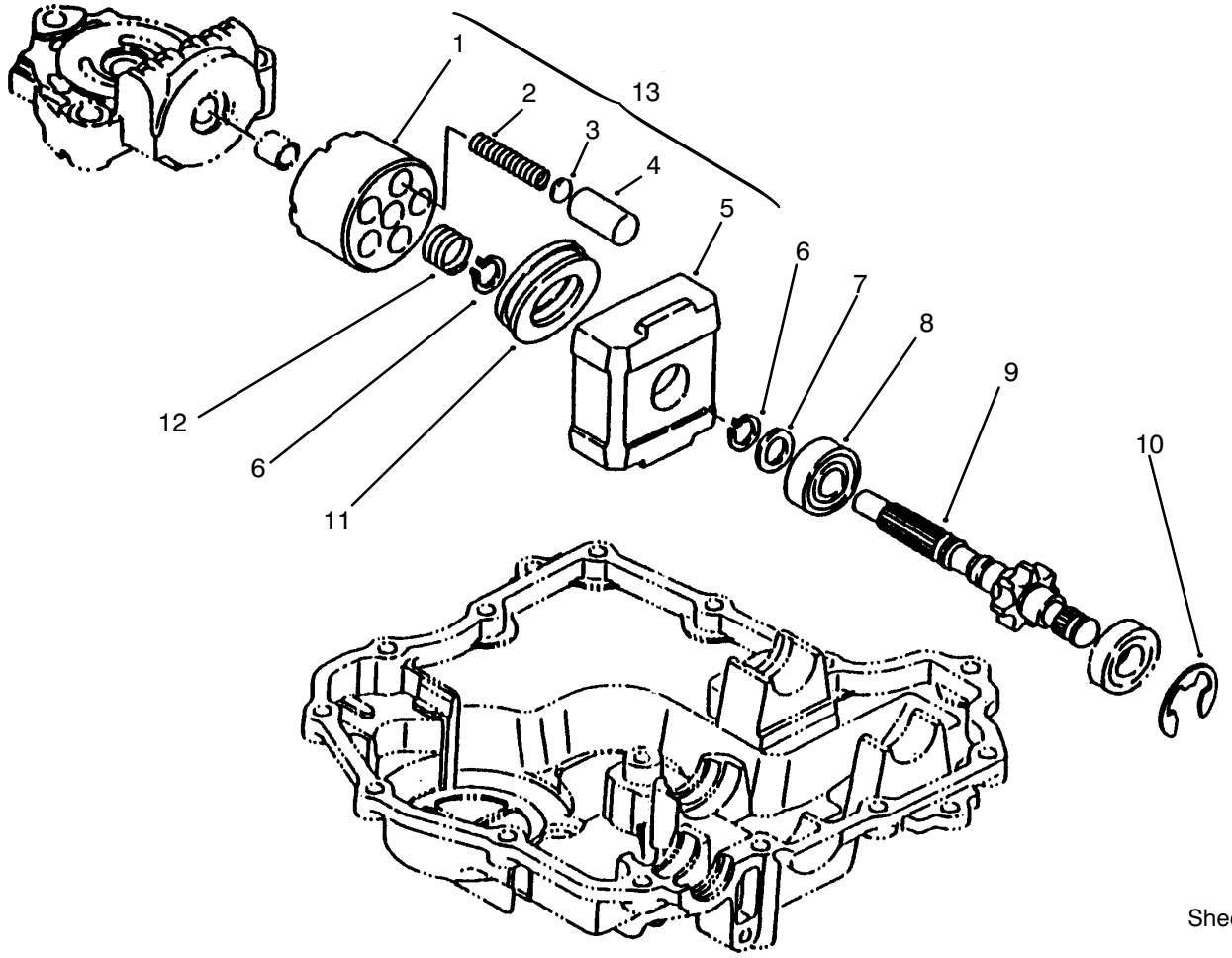
# Pump Shaft

| 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

3321–102



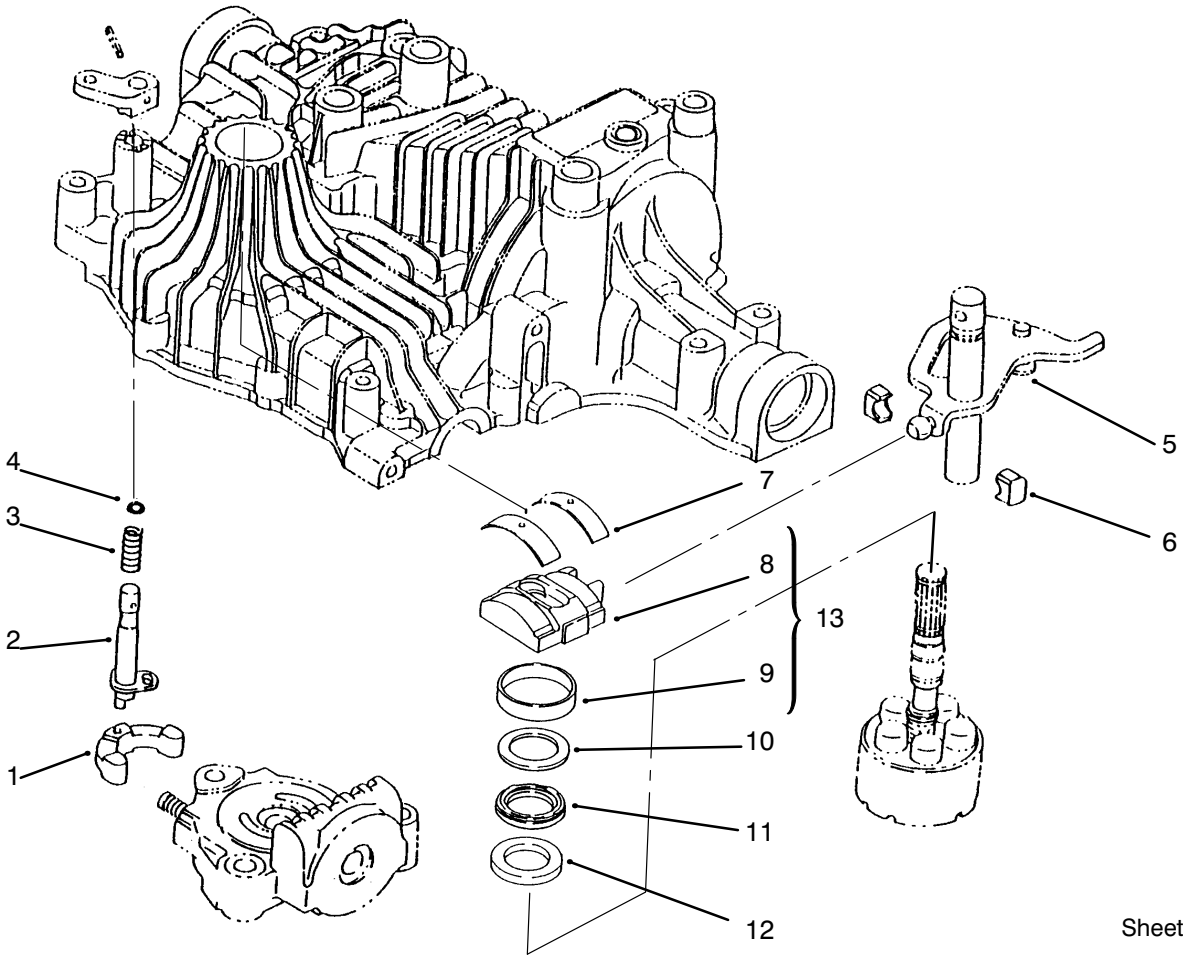

Sheet No.: 404

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

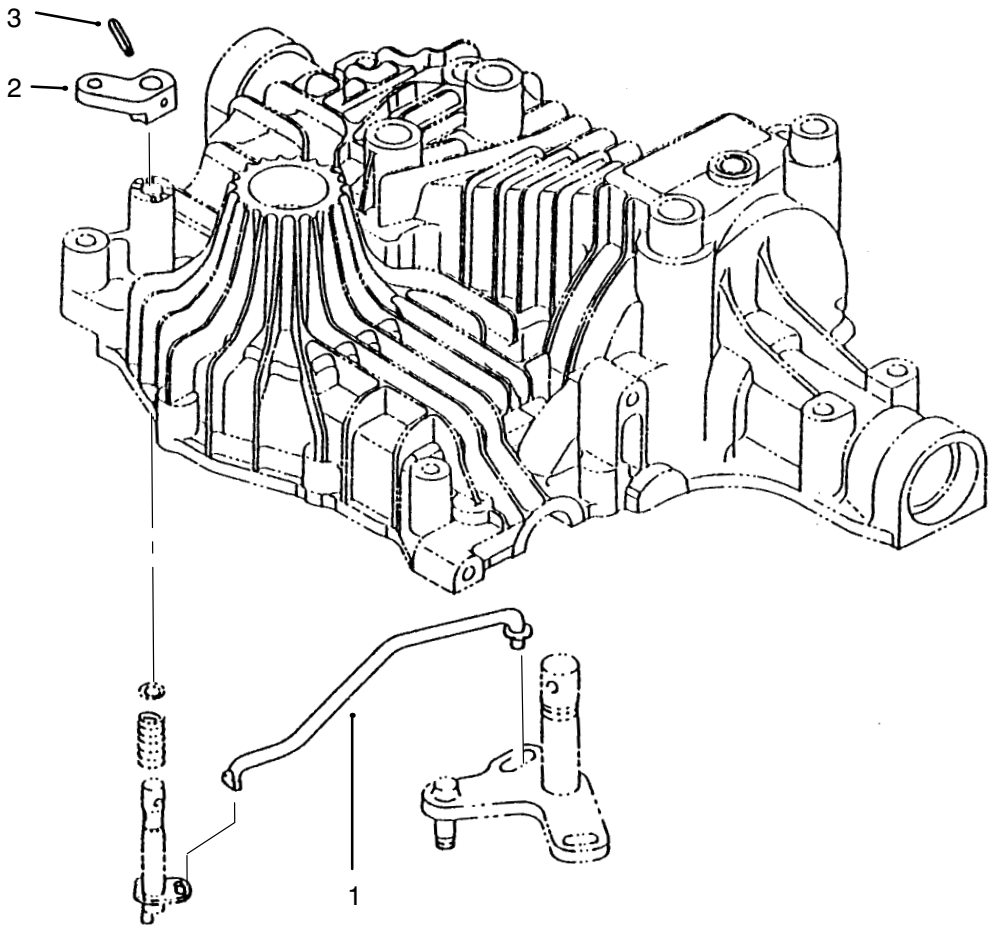
c–1863

# 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



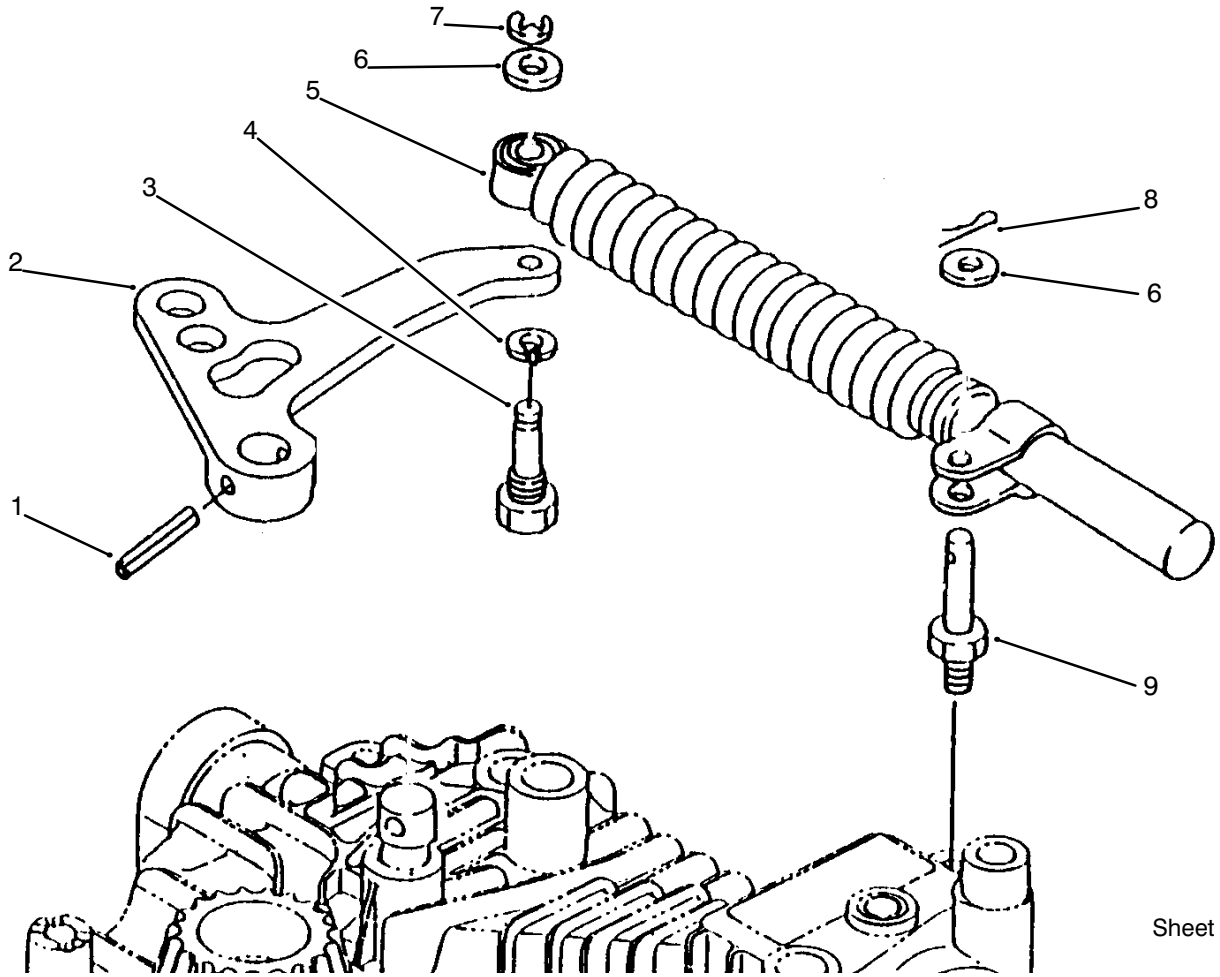

Sheet No.: 406

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 |
|---|---|---|---|

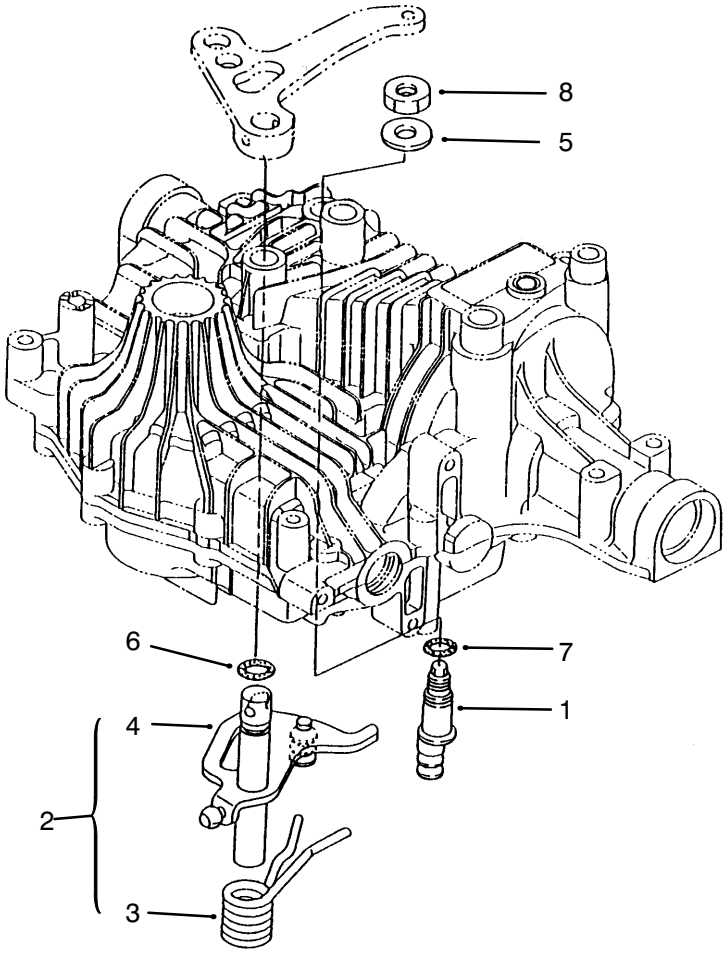



Sheet No.: 407
C–1865

# 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

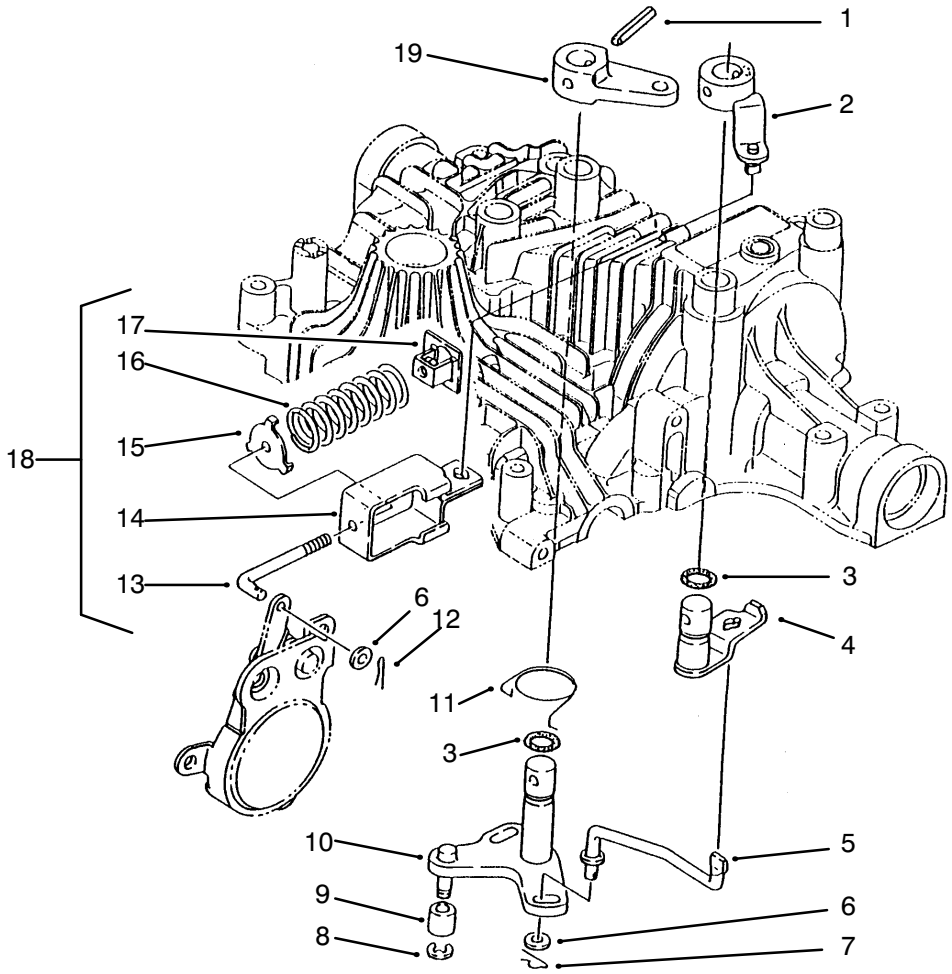
C–1866

# 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




Sheet No.: 409

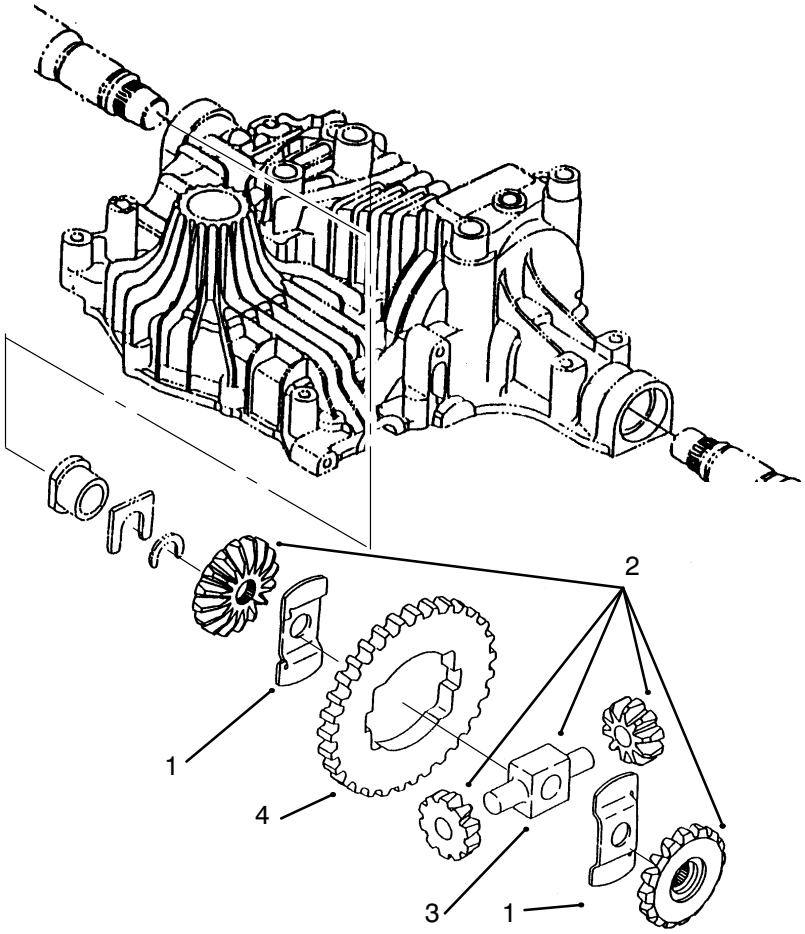
C–1867

# 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



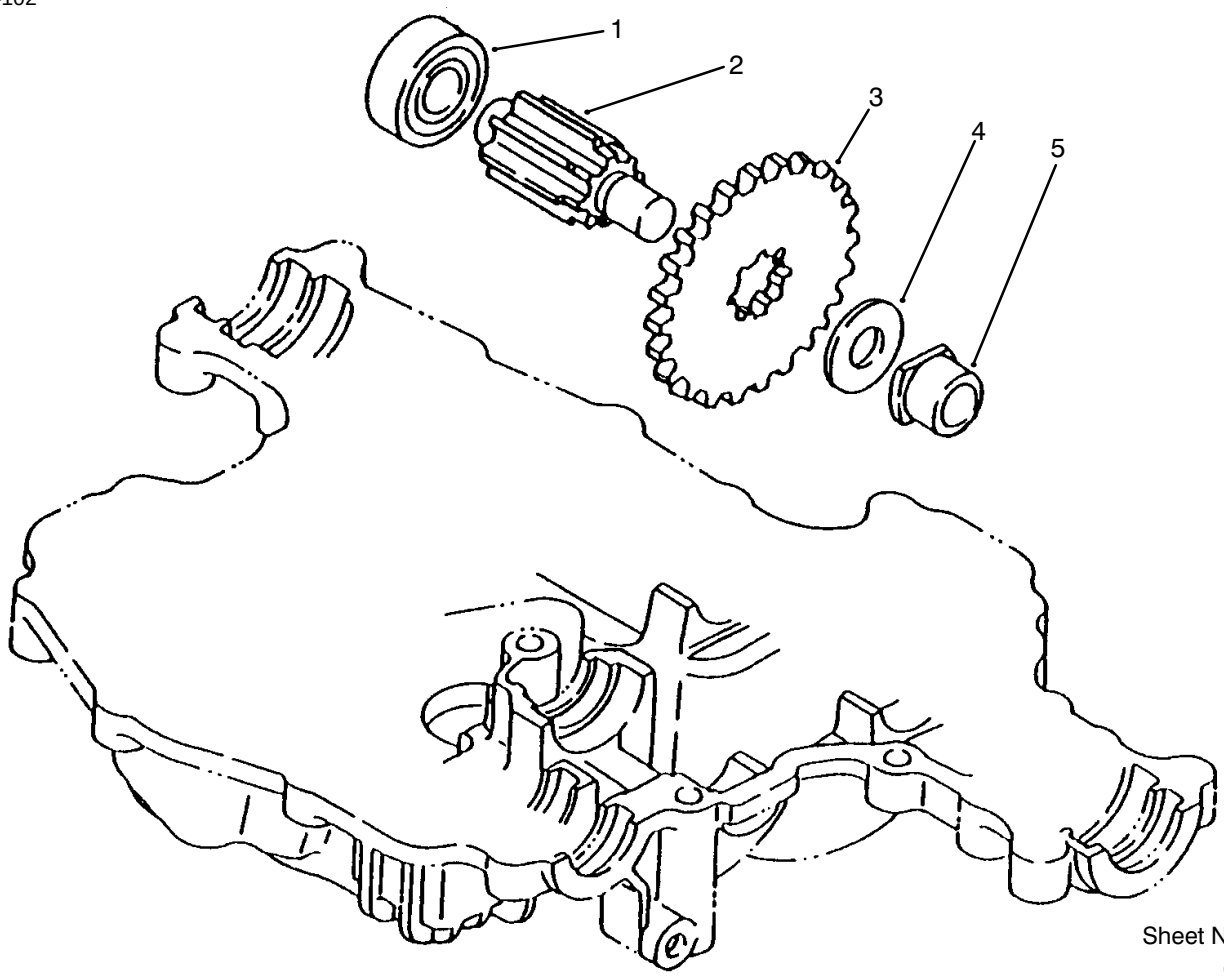

Sheet No.: 410

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 |
|---|---|---|---|



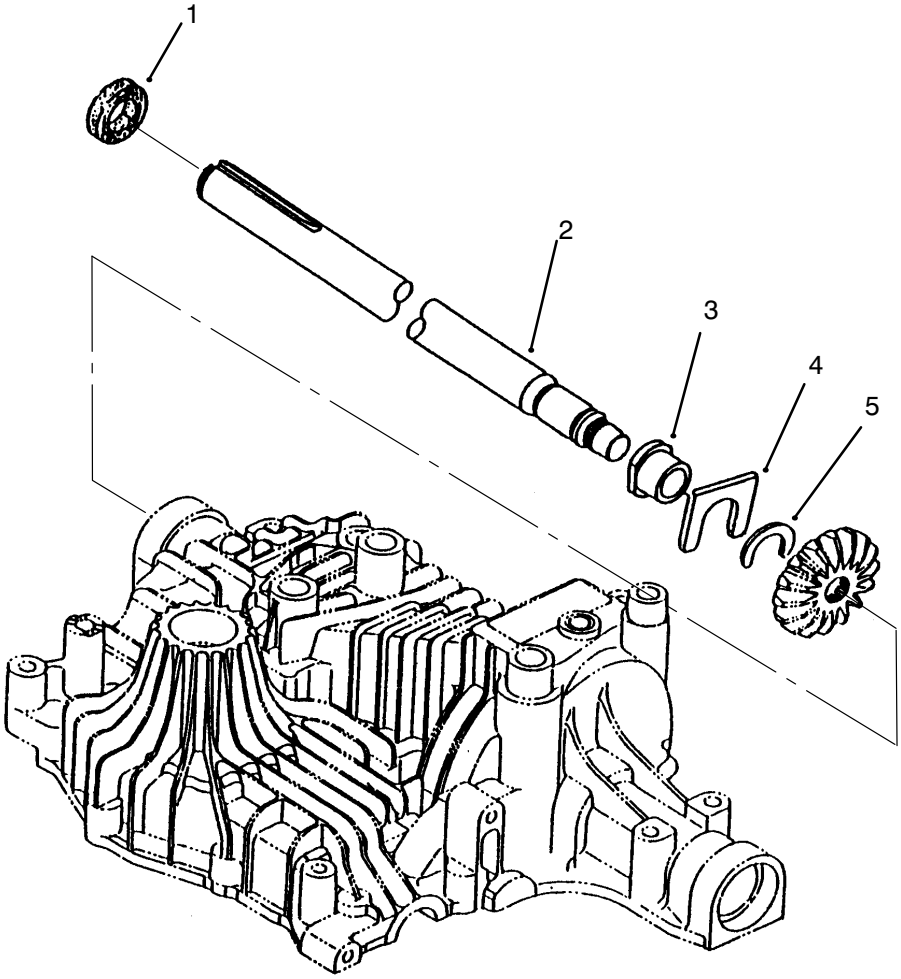

Sheet No.: 411

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

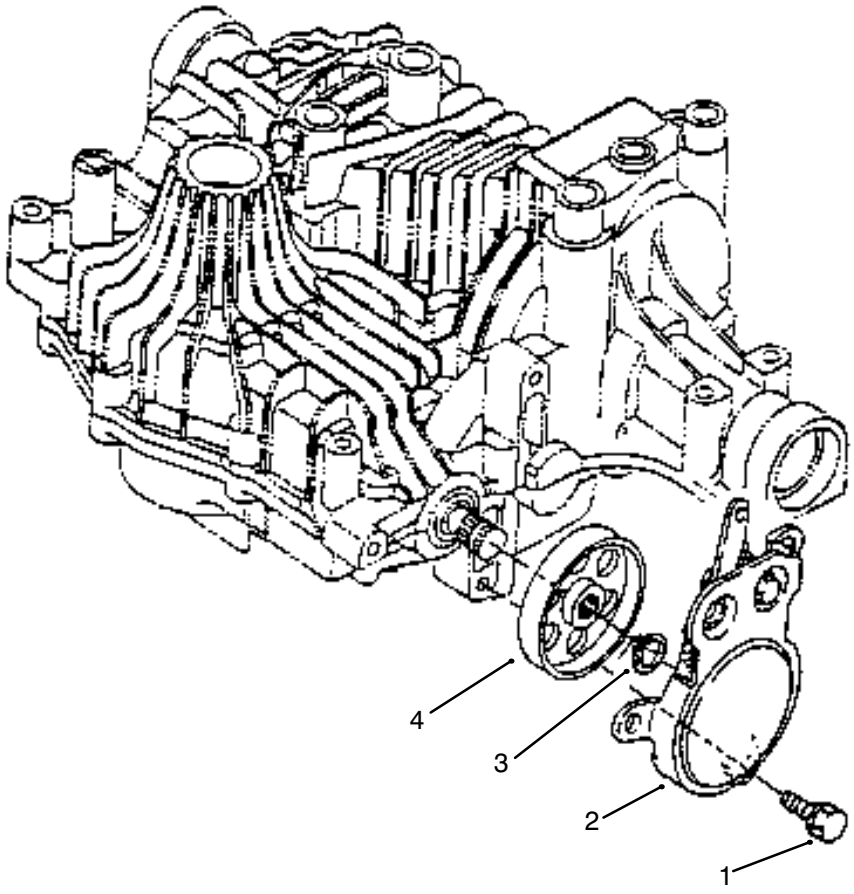
C–1870

# 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



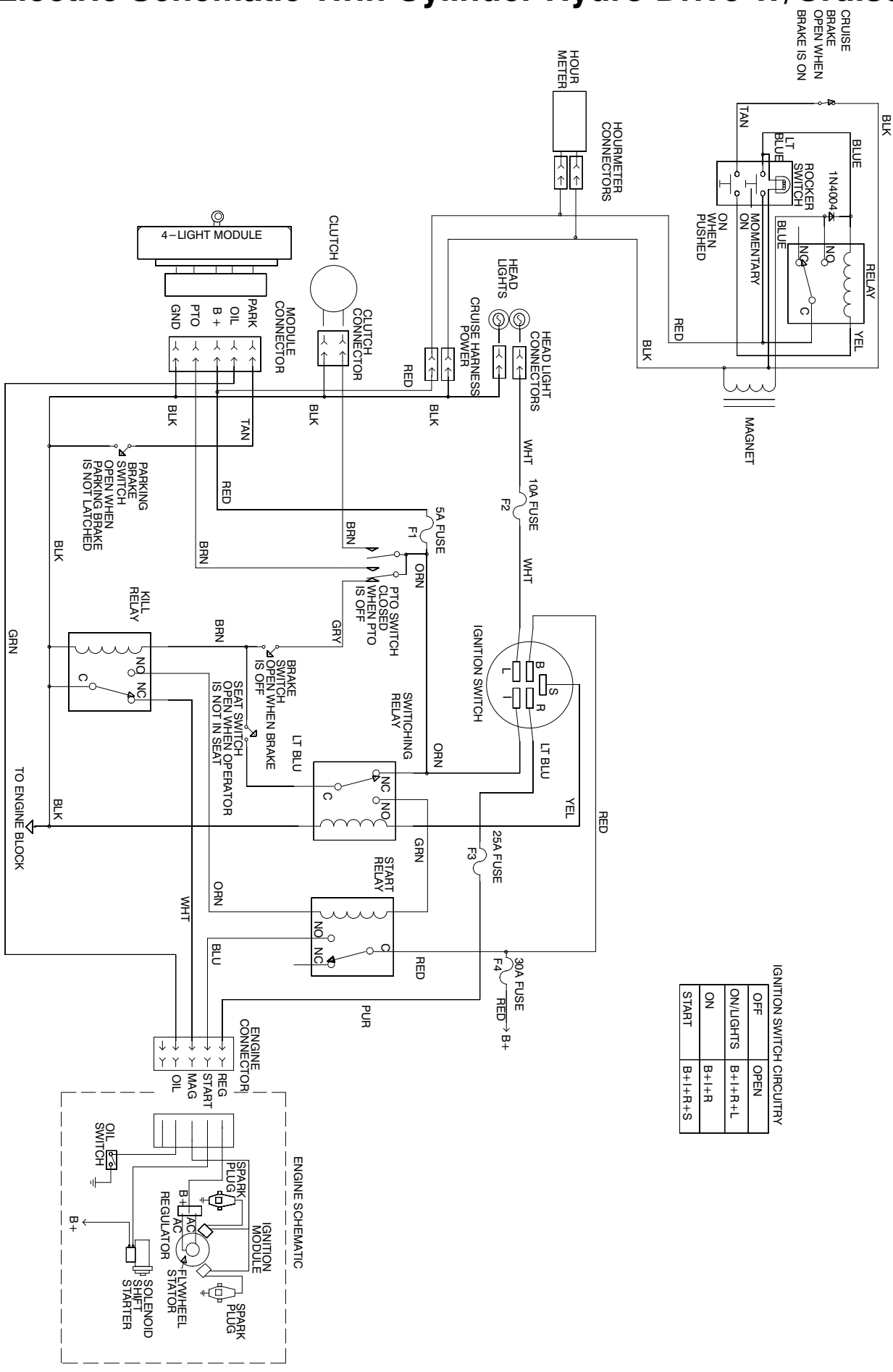

Sheet No.: 413
C–1871

# Brake

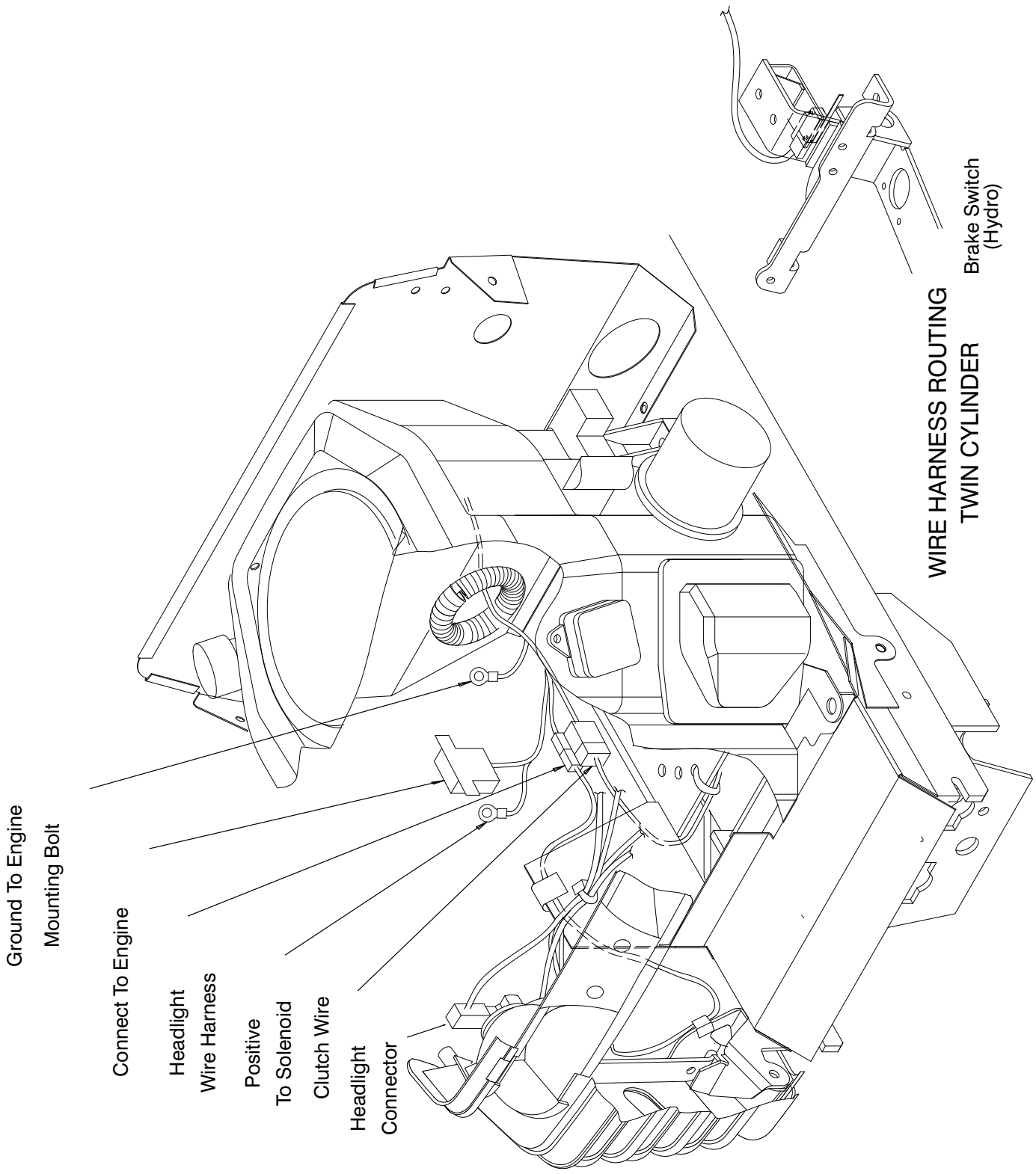
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93–0457 | 3 | Bolt W/Washer |
| 2 | 93–0458 | 1 | Band–Brake Interlock |
| 3 | 93–0373 | 1 | Ring–Snap |
| 4 | 93–0460 | 1 | Drum–Brake |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|

# Electric Schematic Twin Cylinder Hydro Drive W/Cruise

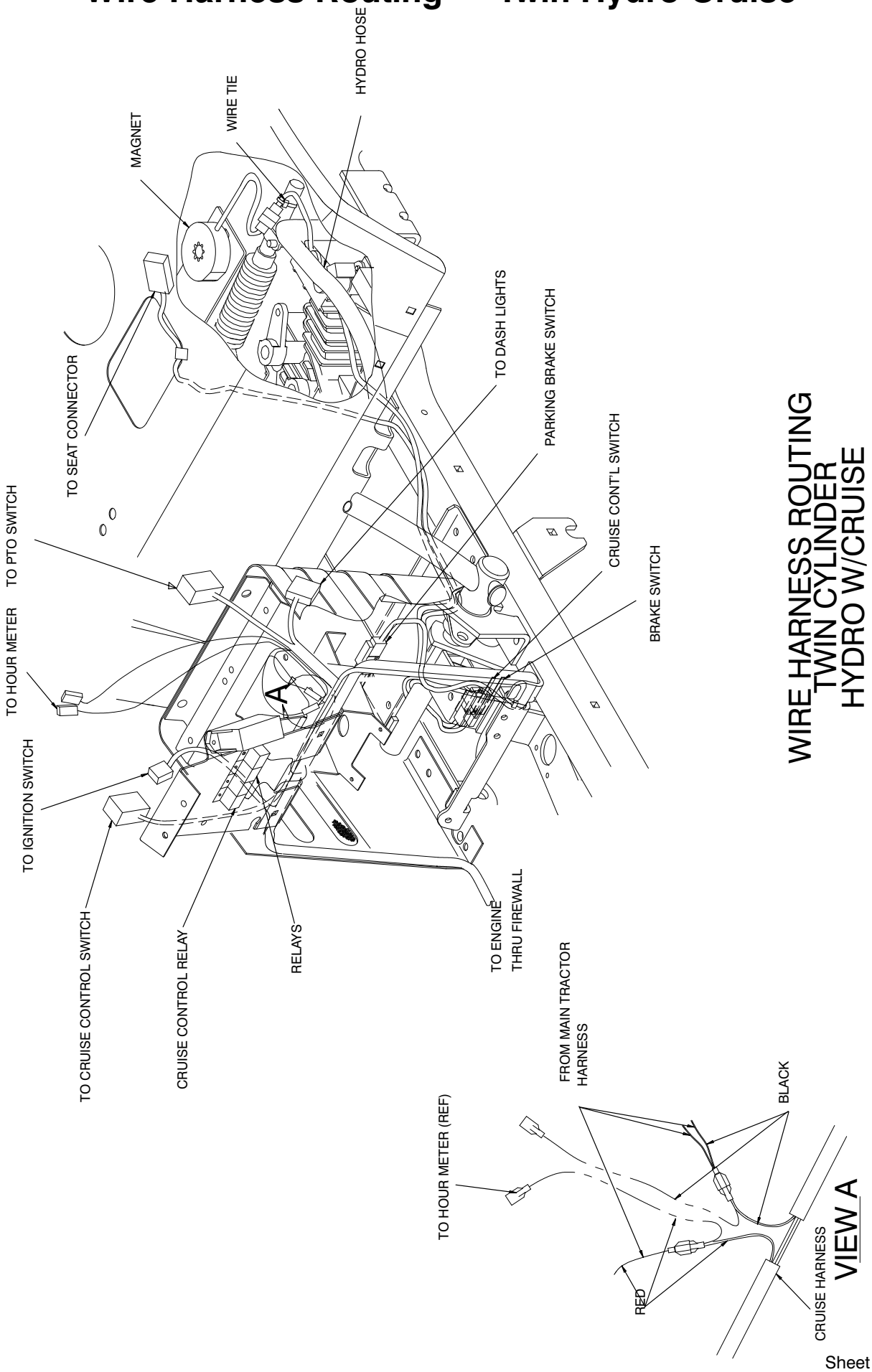


# Wire Harness Routing — Twin Cylinder Engine




Sheet No.: 32

# Wire Harness Routing — Twin Hydro Cruise




Sheet No.: 35