Form No. 3328–353

# Greensmaster® 3250–D

## Traction Unit

**Model No. 04383—230000001 and Up**

# Parts Catalog

### Ordering Replacement Parts

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

### Understanding Reference Numbers

Each identified part in an illustration has a reference number. The reference number for a part also appears in the parts list, along with other information about the part.

This catalog uses two special reference number formats, one to indicate parts in a service assembly and another to indicate the quantity of a given part in an illustration.

#### Service Assembly Reference Numbers

Parts in service assemblies have reference numbers in the form **a:b.** The **a** represents the reference number of the entire service assembly and the **b** represents a sequential number unique to each part within the service assembly.

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

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

#### Reference Numbers Indicating Quantity

In an illustration, if a reference number indicates more than one part, the reference number has the form **nX y.** The **n** represents the quantity of the part, the **X** is the multiplication symbol, and the **y** represents the reference number.

For example, in an illustration, the reference number **2X 37** means that two of the parts identified by reference number 37 are indicated.

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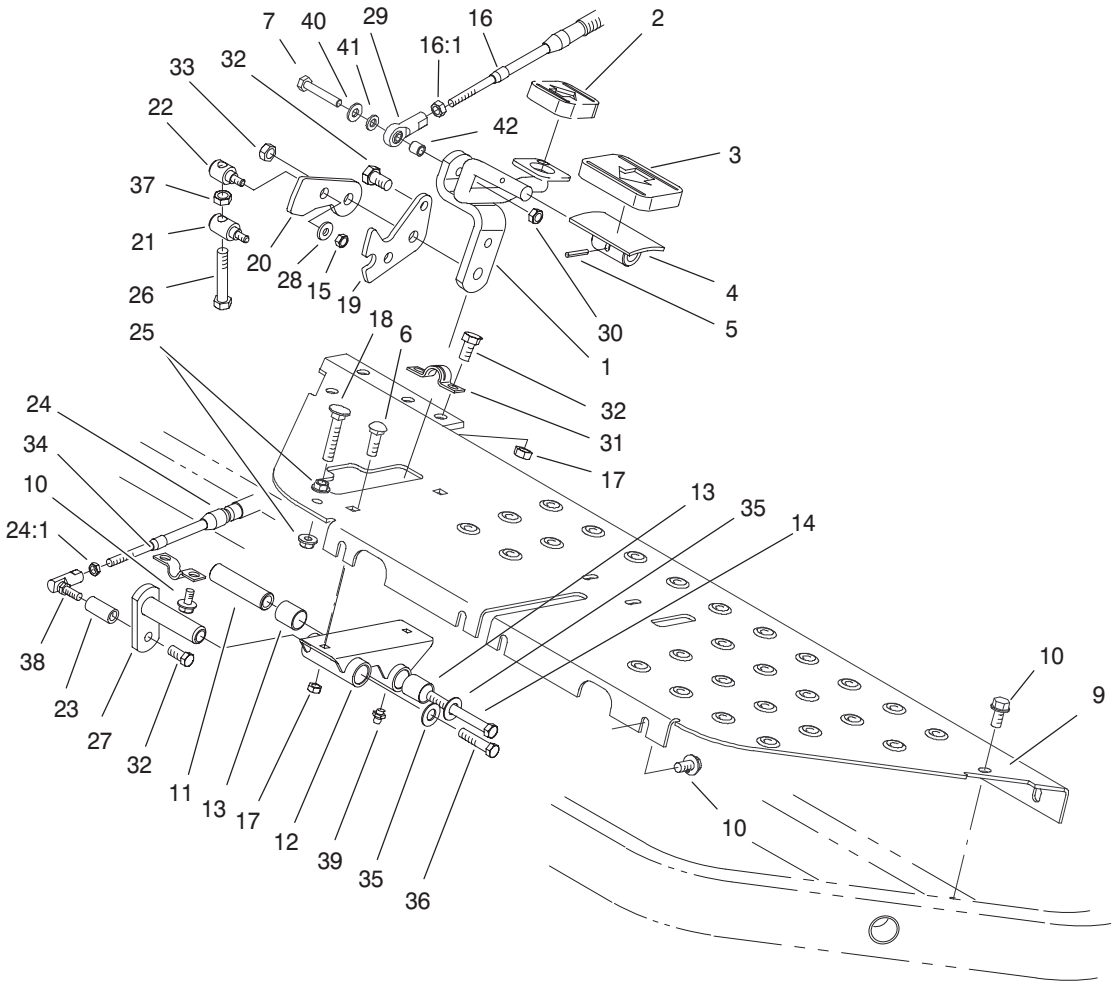
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## Part Description Abbreviations

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 |
| HH | hex head |
| HHF | hex head flange |
| HLH | hex lag head |
| HJ | hex jam |
| HOC | height-of-cut |
| HS | hex socket |
| HSBH | hex socket button head |
| HSFH | hex socket flat head |
| HSH | hex socket head |
| HWH | hex washer head |
| HWHTF | hex washer head thread forming |
| INC | incorporated |
| LH | left hand |
| NI | nylon insert |
| PPH | Phillips pan head |
| PTH | Phillips truss head |
| PTO | power take off |
| RH | right hand |
| SFH | slotted fillister head |
| SHH | slotted hex head |
| SQH | square head |
| SHWH | slotted hex washer head |
| SPH | slotted pan head |
| SRH | slotted round head |
| STD | standard |
| TAP | self tapping |
| TTH | Torx truss head |
| WH | wing head |

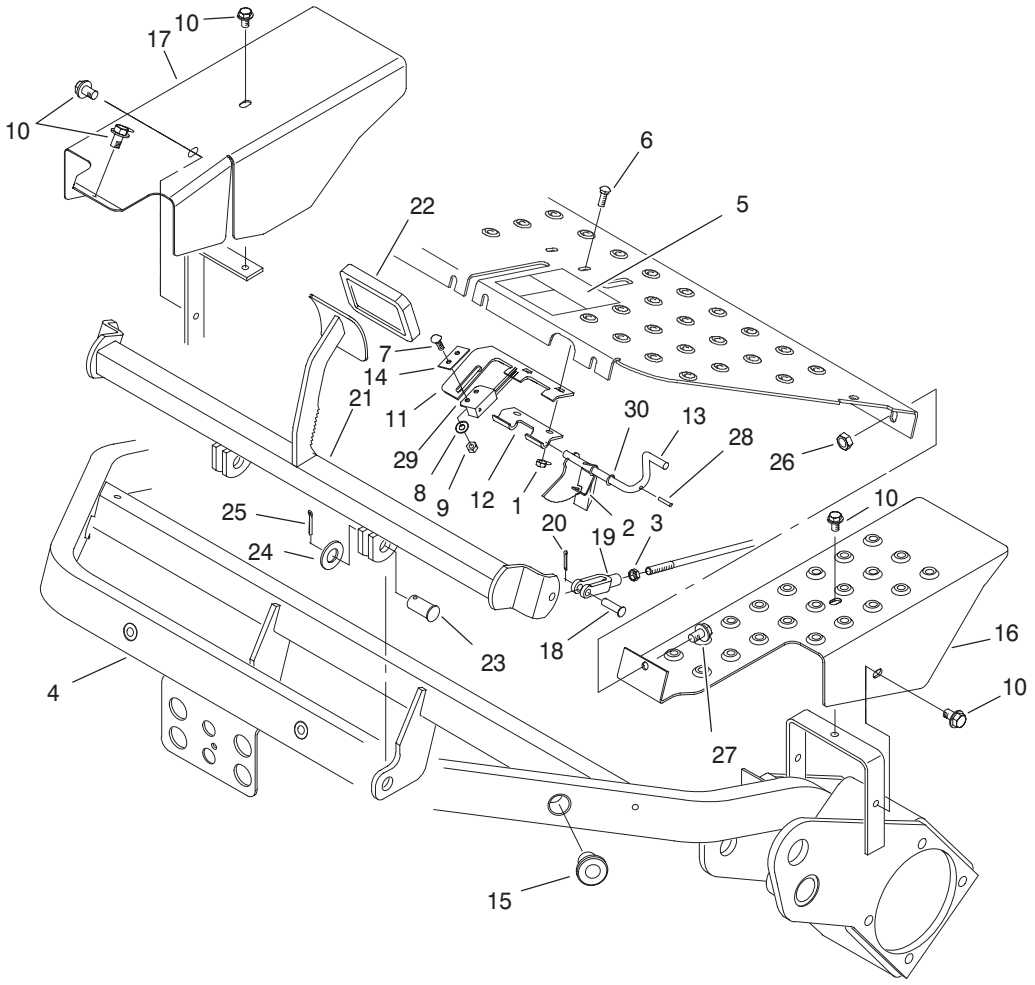



Sheet No.:2

# Traction Control Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93–2085–01 | 1 | Rod |
| 2 | 74–9110 | 1 | Pad–Pedal, Reverse |
| 3 | 74–9100 | 1 | Pad–Pedal, Forward |
| 4 | 49–6440–03 | 1 | Pedal–Forward |
| 5 | 32121–45 | 1 | Pin–Spring |
| 6 | 33124–020 | 2 | Screw–CARR |
| 7 | 321–9 | 1 | Screw–HH |
| 9 | 105–9750–01 | 1 | Plate–Floor |
| 10 | 32144–14 | 8 | Screw–HWH |
| 11 | 94–1371 | 1 | Spacer |
| 12 | 94–1383 | 1 | Pedal–Pivot |
| 13 | 256–311 | 4 | Bushing–Split |
| 14 | 33115–090 | 1 | Screw–HH |
| 15 | 33023–00 | 2 | Nut–Lock |
| 16 | 93–2099 | 1 | Cable–Control, Traction |
| 16:1 | 3220–1 | 2 | Nut–Jam |
| 17 | 33024–00 | 4 | Nut–Lock |
| 18 | 17–9420 | 1 | Screw–Handle |
| 19 | 94–1373 | 1 | Bracket–Lock |
| 20 | 94–1372 | 1 | Bracket–Mow |
| 21 | 94–1375 | 1 | Trunnion–Bracket, Lock |
| 22 | 94–1374 | 1 | Trunnion–Bracket, Mow |
| 23 | 94–1386 | 1 | Shaft–Pedal, Pivot |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 24 | 94–1304 | 1 | Cable–Lock, Neutral |
| 24:1 | 3219–14 | 2 | Nut–Hex |
| 25 | 32128–20 | 2 | Nut–HF |
| 26 | 94–3489 | 1 | Capscrew–HH |
| 27 | 94–1300 | 1 | Lock–Neutral |
| 28 | 3256–1 | 2 | Washer–Flat |
| 29 | 2411–41 | 1 | Joint–Ball |
| 30 | 3296–56 | 1 | Nut–Lock, NI |
| 31 | 93–2092 | 1 | Clamp–Cable |
| 32 | 33114–016 | 4 | Screw–HH |
| 33 | 33025–00 | 1 | Nut–Lock |
| 34 | 93–2279 | 1 | Clamp–Cable |
| 35 | 3256–24 | 2 | Washer–Flat |
| 36 | 33115–016 | 1 | Screw–HH |
| 37 | 33014–00 | 1 | Nut–Hex |
| 38 | 2411–38 | 1 | Joint–Ball |
| 39 | 302–5 | 1 | Fitting–Grease |
| 40 | 3256–22 | 1 | Washer–Flat |
| 41 | 33093–00 | 1 | Washer–Flat |
| 42 | 99–3545 | 1 | Spacer |

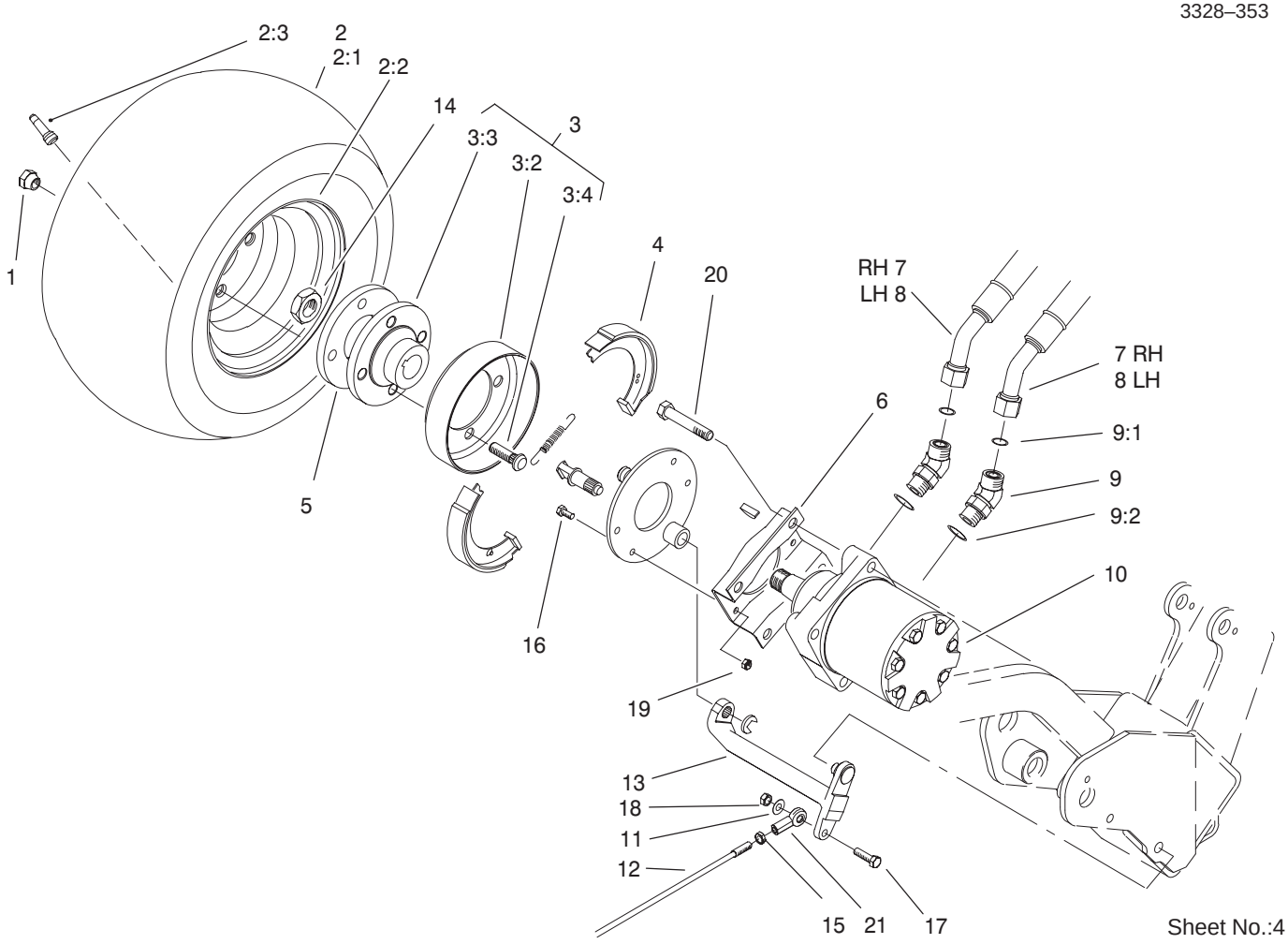



Sheet No.:3

# Brake Pedal Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 33023–00 | 2 | Nut–Lock |
| 2 | 104–7704 | 1 | Spring–Brake Latch |
| 3 | 3220–2 | 2 | Nut |
| 4 | 93–2010–01 | 1 | Frame |
| 5 | 93–8062 | 1 | Decal–Brake, Parking |
| 6 | 33123–016 | 2 | Screw–CARR |
| 7 | 33123–016 | 1 | Screw–CARR |
| 8 | 48–8010 | 1 | Washer |
| 9 | 49–7810 | 1 | Nut–Lock |
| 10 | 32144–14 | 5 | Screw–HWH |
| 11 | 104–2096 | 1 | Bracket–Switch |
| 12 | 104–7703 | 1 | Hinge–Lower |
| 13 | 104–2094 | 1 | Brake–Latch |
| 14 | 104–7702 | 1 | Plate–Switch |
| 15 | 83–1700 | 3 | Bushing–Flange |
| 16 | 93–2073–01 | 1 | Shield–Wheel, LH |
| 17 | 93–2072–01 | 1 | Shield–Wheel, RH |
| 18 | 283–61 | 2 | Pin–Yoke |
| 19 | 282–2 | 2 | Yoke |
| 20 | 3272–6 | 2 | Pin–Cotter |
| 21 | 93–2075–01 | 1 | Pedal–Brake |
| 22 | 93–7629 | 1 | Pad–Foot, Brake |
| 23 | 283–87 | 2 | Pin–Clevis |
| 24 | 3256–27 | 2 | Washer–Flat |
| 25 | 3272–11 | 2 | Pin–Cotter |
| 26 | 33024–00 | 1 | Nut–Lock |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 27 | 33114–020 | 1 | Screw–HH |
| 28 | 32121–50 | 1 | Pin–Spring |
| 29 | 104–2057 | 1 | Sensor |
| 30 | 75–5470 | 1 | Spacer–Bearing |



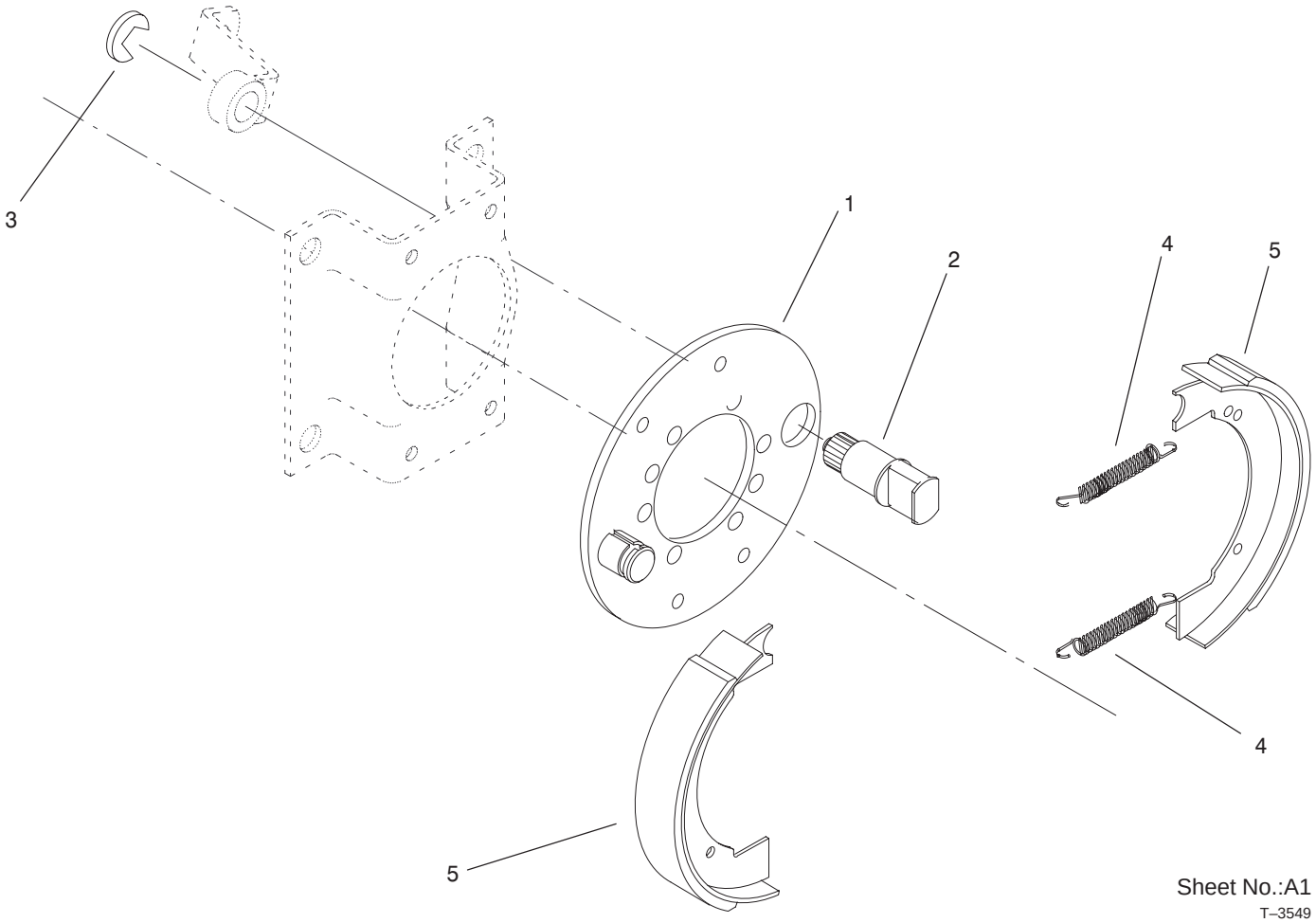

Sheet No.:4

# Front Wheel and Brake Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 242–50 | 8 | Nut–Lug |
| ☆2 | | 2 | Wheel And Tire ASM |
| 2:1 | 70–8500 | 1 | Tire |
| 2:2 | 94–6116 | 1 | Wheel–Rear |
| 2:3 | 232–27 | 1 | Stem–Valve |
| 3 | 10–6821 | 2 | Brake Drum ASM |
| 3:2 | 10–6850 | 1 | Drum–Brake |
| 3:3 | 10–6870–03 | 1 | Hub–Wheel |
| 3:4 | 85–6540 | 4 | Stud–Drive |
| 4 | 104–7705 | 2 | Brake ASM |
| 5 | 92–9154–03 | 2 | Plate–Bearing |
| 6 | 84–2000–03 | 2 | Bracket–Brake |
| 7 | 94–5357 | 2 | Hose ASM |
| 8 | 94–5358 | 2 | Hose ASM |
| 9 | 340–14 | 4 | Fitting–HYD, 45° |
| 9:1 | 237–65 | 1 | O–Ring |
| 9:2 | 237–80 | 1 | O–Ring |
| 10 | 92–9199 | 2 | Motor–Wheel, HYD |
| 11 | 3256–23 | 2 | Washer–Flat |
| 12 | 93–2069 | 2 | Rod–Brake |
| 13 | 93–2096 | 2 | Lever–Brake |
| 14 | 26–3790 | 2 | Nut–Lock |
| 15 | 3220–20 | 2 | Nut–Jam |
| 16 | 33113–020 | 8 | Screw–HH |
| 17 | 33114–030 | 2 | Screw–HH |
| 18 | 33024–00 | 2 | Nut–Lock |
| 19 | 33023–00 | 8 | Nut–Lock |
| 20 | 33116–060 | 8 | Screw–HH |
| 21 | 93–2070 | 2 | Clevis–Swivel |

☆ Not serviced separately

3328–353



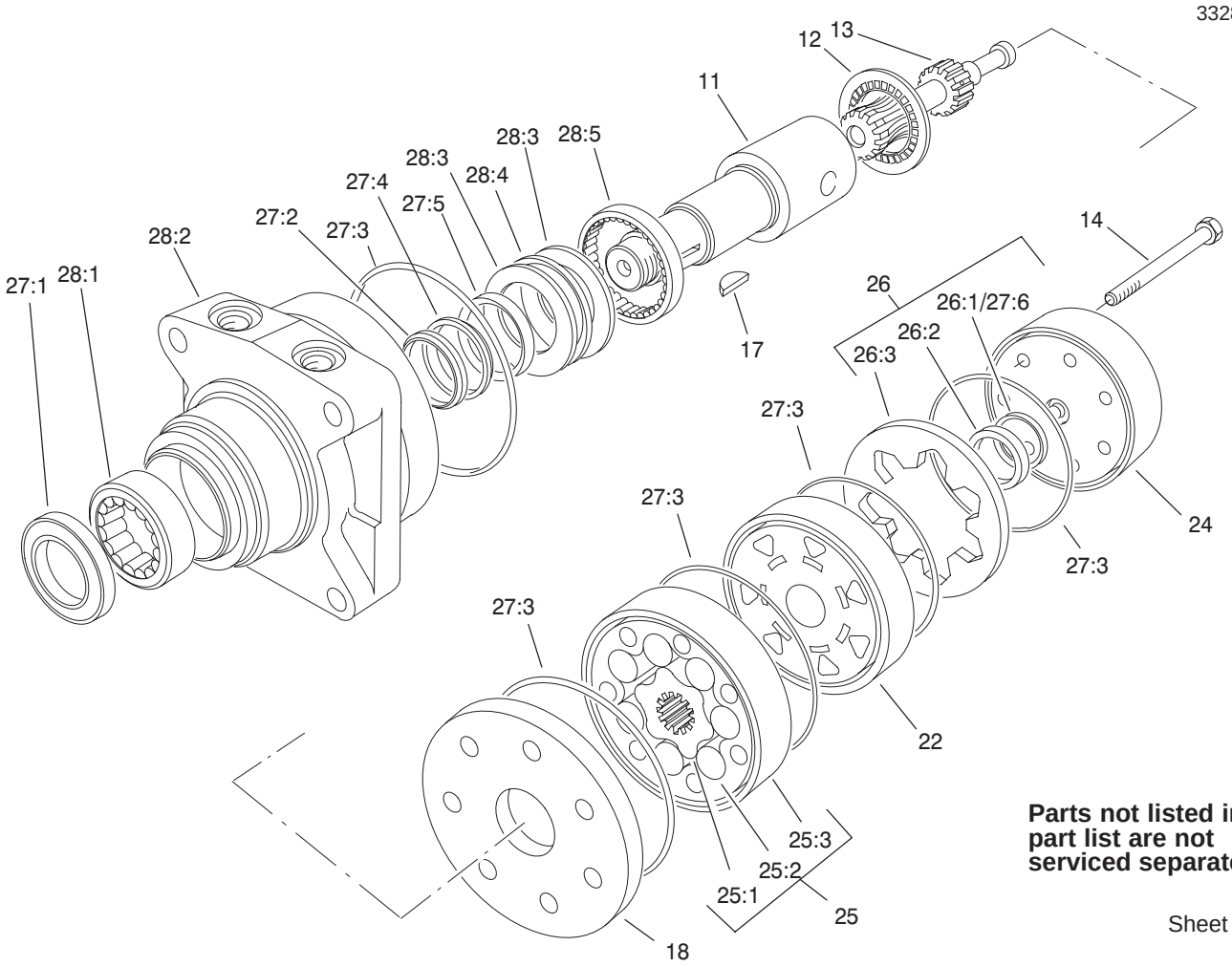

Sheet No.:A1

T–3549

# Brake Assembly No. 104–7705

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

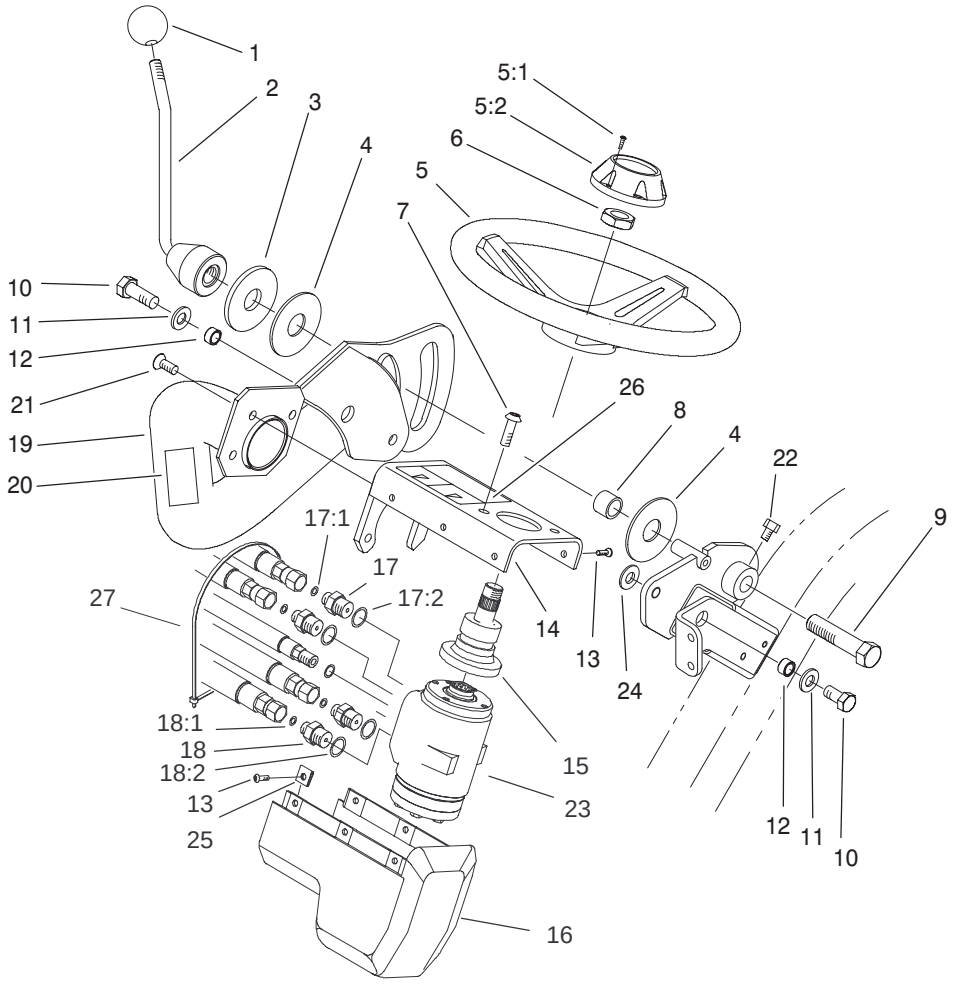
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|




# Hydraulic Motor Assembly No. 92–9199

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 11 | 76–0860 | 1 | Shaft–Coupling |
| 12 | 76–0850 | 1 | Bearing–Thrust |
| 13 | 92–9761 | 1 | Link–Drive |
| 14 | 92–9762 | 7 | Screw–HH |
| 17 | 3257–42 | 1 | Key–Woodruff |
| 18 | 76–0870 | 1 | Plate–Wear |
| 22 | 76–0840 | 1 | Manifold |
| 24 | 76–0940 | 1 | End Cover ASM |
| 25 | 92–9763 | 1 | Rotor Set |
| ☆25:1 | | 1 | Rotor |
| ☆25:2 | | 1 | Vane |
| ☆25:3 | | 1 | Stator |
| 26 | 76–0880 | 1 | Commutator ASM |
| ☆26:1 | | 1 | Seal–Commutator |
| ☆26:2 | | 1 | Commutator |
| ☆26:3 | | 1 | Ring–Commutator |
| 27 | 94–8178 | 1 | Seal Kit |
| ☆27:1 | | 1 | Seal–Dirt And Water |
| ☆27:2 | | 1 | Washer–Backup |
| ☆27:3 | | 5 | Seal–Ring |
| ☆27:4 | | 1 | Washer–Backup |
| ☆27:5 | | 1 | Seal–Inner |
| ☆27:6 | | 1 | Seal–Commutator |
| 28 | 76–0810 | 1 | Housing ASM |
| ☆28:1 | | 1 | Bearing |
| ☆28:2 | | 1 | Housing |
| ☆28:3 | | 2 | Washer–Thrust |
| ☆28:4 | | 1 | Bearing–Thrust |
| ☆28:5 | | 1 | Bearing |

☆ Not serviced separately

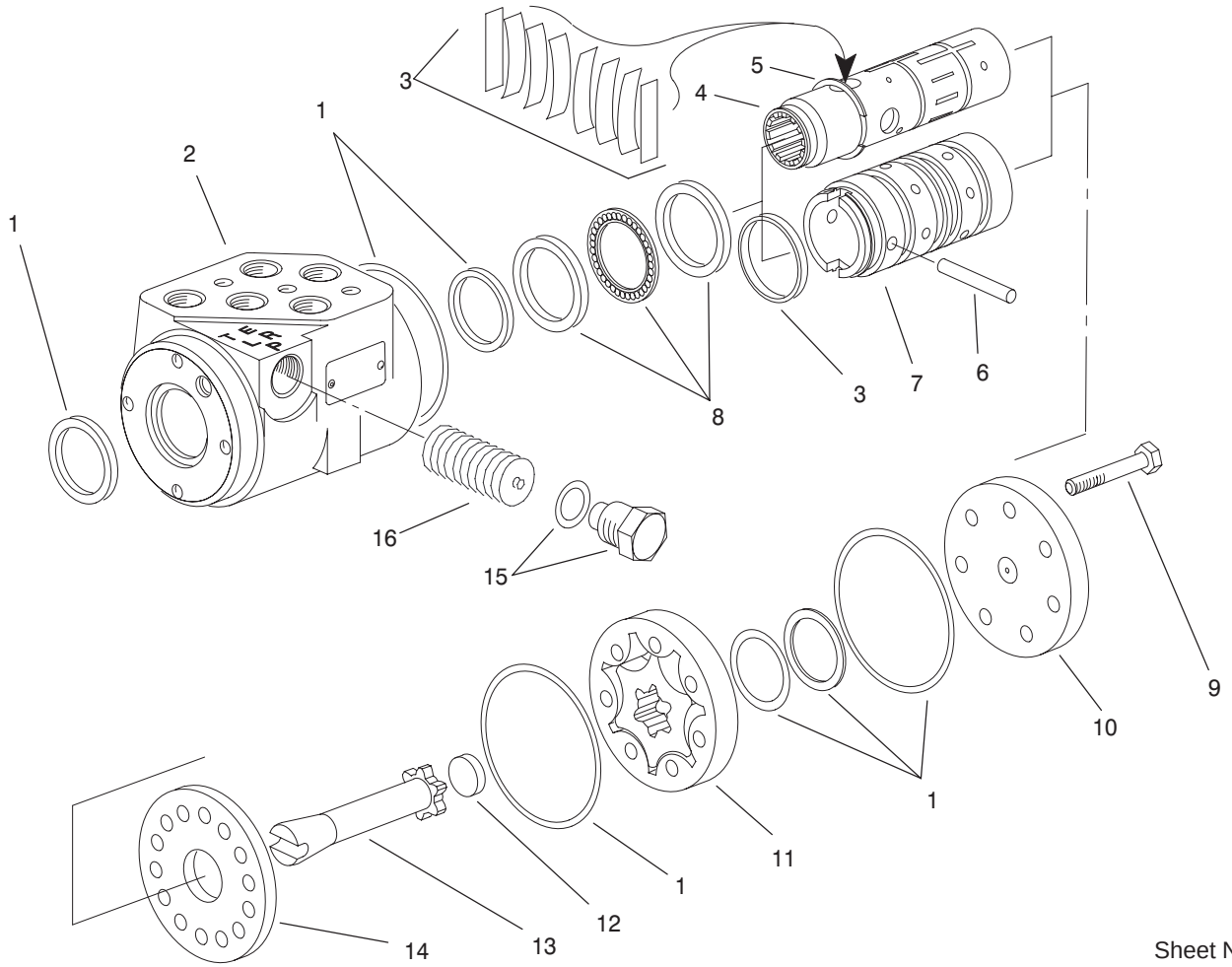



Sheet No.:5

# Steering Arm Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 233–48 | 1 | Knob |
| 2 | 93–2400–03 | 1 | Handle–Lockup |
| 3 | 83–0760 | 1 | Spacer–Plate, Lockup |
| 4 | 83–0740 | 2 | Disc–Friction |
| 5 | 75–0560 | 1 | Wheel–Steering |
| 5:1 | 32144–21 | 1 | Screw |
| 5:2 | 68–5140 | 1 | Cap–Wheel, Steering |
| 6 | 94–9952 | 1 | Nut–Hex |
| 7 | 33103–016 | 4 | Screw–HHF |
| 8 | 83–0730 | 1 | Spacer–Lockup |
| 9 | 93–2199 | 1 | Screw–HH, RH |
| 10 | 325–4 | 2 | Screw–HH |
| 11 | 3256–26 | 2 | Washer–Flat |
| 12 | 47–2890 | 2 | Bushing |
| 13 | 3274–39 | 6 | Screw–HSBH |
| 14 | 105–9791–03 | 1 | Steering Cover ASM |
| 15 | 105–0425 | 1 | Steering Column ASM |
| 16 | 83–0810 | 1 | Cover–Steering |
| 17 | 340–1 | 2 | Adapter |
| 17:1 | 237–35 | 1 | O–Ring |
| 17:2 | 237–42 | 1 | O–Ring |
| 18 | 340–2 | 2 | Fitting–Straight, HYD |
| 18:1 | 237–22 | 1 | O–Ring |
| 18:2 | 237–42 | 1 | O–Ring |
| 19 | 93–2115–01 | 1 | Arm–Steering |
| 20 | 93–8068 | 1 | Decal–Arm, Steering |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21 | 3274–80 | 3 | Screw–HH |
| 22 | 3242–2 | 1 | Screw–SQH |
| 23 | 105–0424 | 1 | Valve–Control, Steering |
| 24 | 65–6390 | 1 | Washer–Thrust, Plain |
| 25 | 3290–277 | 6 | Nut–Speed |
| 26 | 104–2053 | 1 | Decal–Warning |
| 26 | 93–8063 | 1 | Decal–Warning (Europe) |
| 27 | 3290–379 | 1 | Tie–Cable |



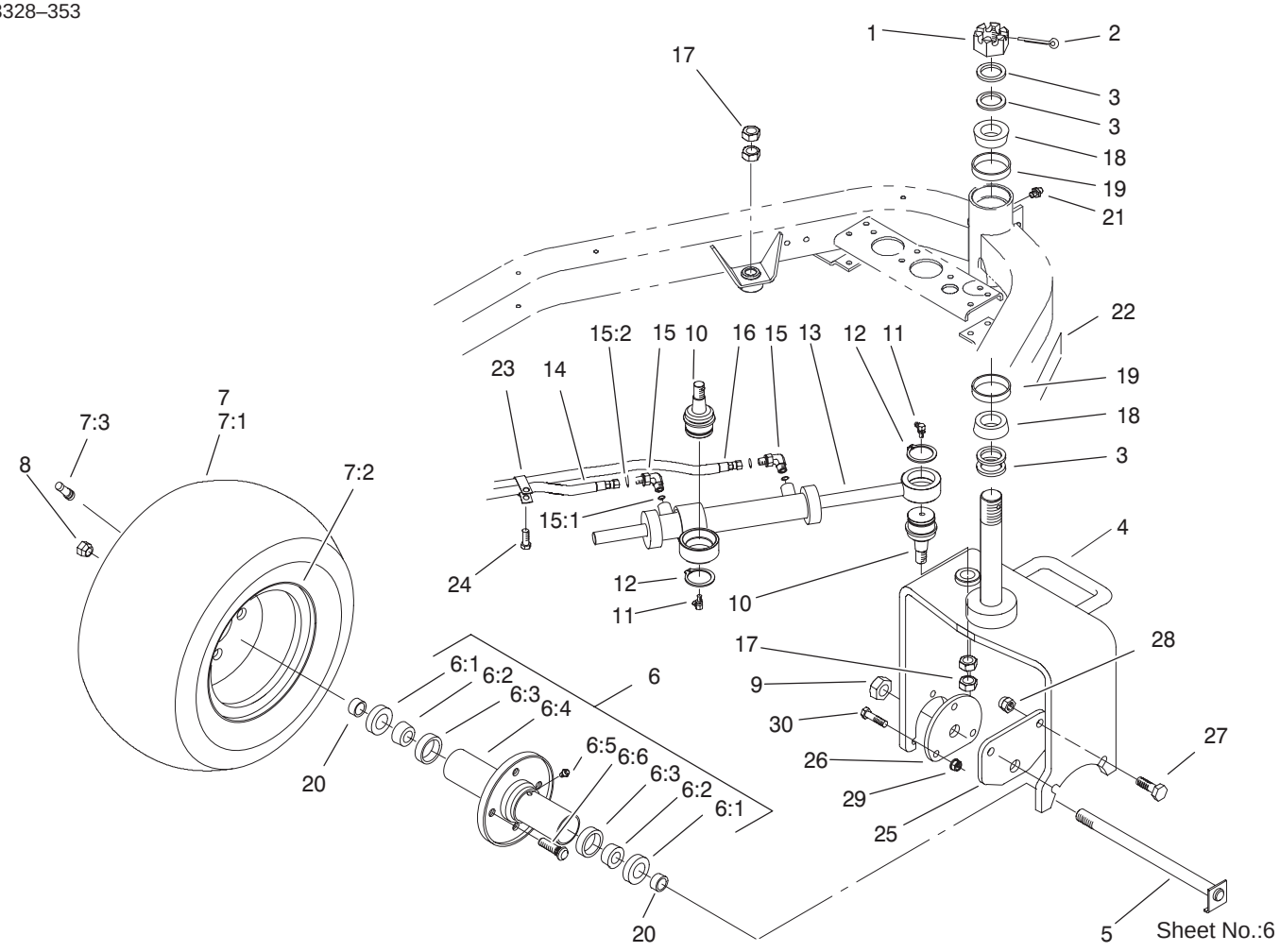

T–3891
Sheet No.:A3

# Steering Control Valve Assembly No. 105–0424

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94–4099 | 1 | Seal Kit |
| ☆2 | | 1 | Housing |
| 3 | 94–4095 | 1 | Centering Spring Kit |
| ☆4 | | 1 | Spool |
| 5 | 94–4098 | 1 | Ring–Retaining |
| 6 | 94–4094 | 1 | Pin |
| ☆7 | | 1 | Sleeve |
| 8 | 92–3839 | 1 | Bearing Kit |
| 9 | 105–2938 | 7 | Screw–Cap |
| 10 | 94–4089 | 1 | Cap–End |
| 11 | 105–2939 | 1 | Gerotor ASM |
| 12 | 105–2940 | 1 | Spacer |
| 13 | 94–4093 | 1 | Drive |
| 14 | 94–4092 | 1 | Plate–Wear |
| 15 | 99–5511 | 1 | Plug ASM |
| 16 | 99–5500 | 1 | Valve–Relief |

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

☆ Not serviced separately

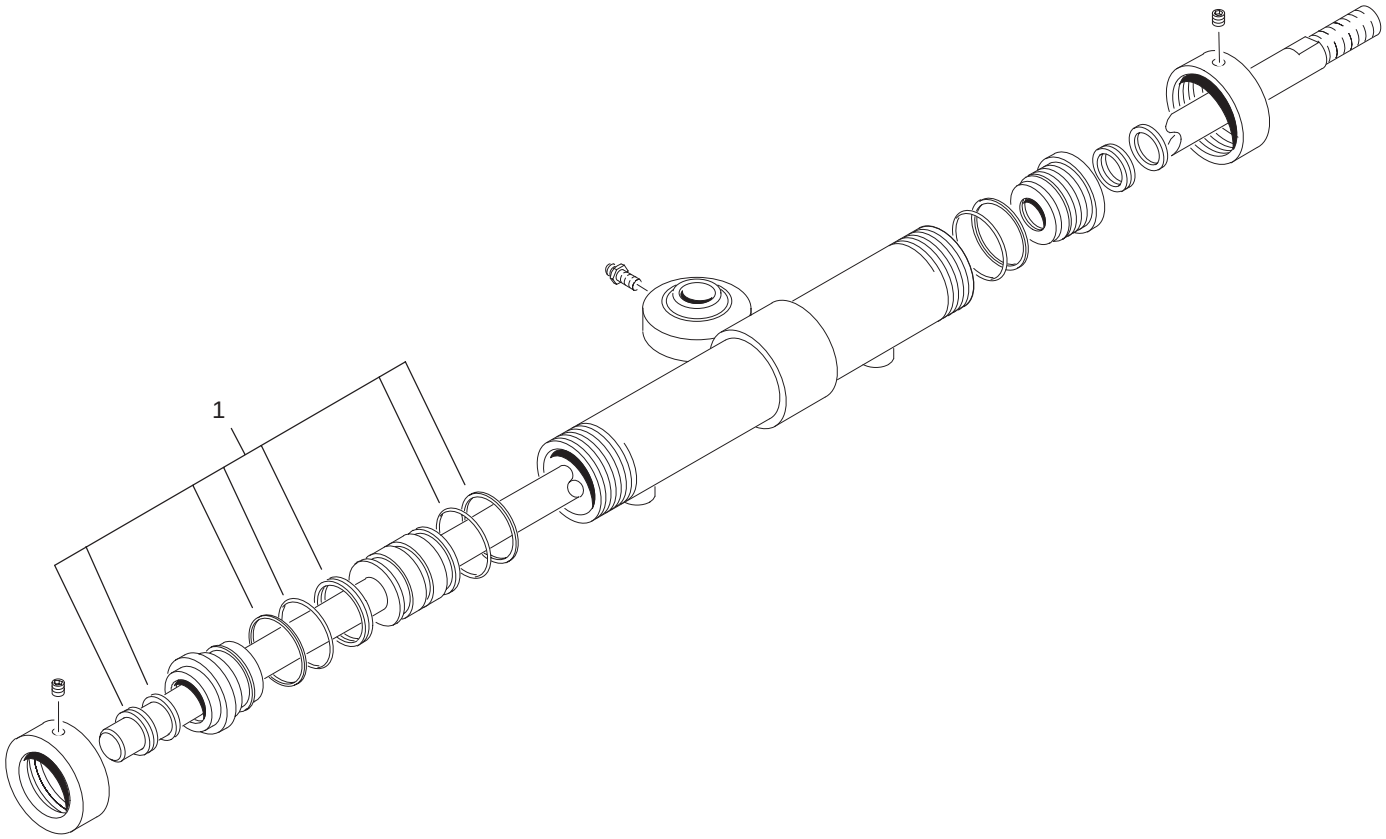



# Rear Wheel Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 32136–9 | 1 | Nut–Hex, Slot |
| 2 | 3272–37 | 1 | Pin–Cotter |
| 3 | 18–6320 | 4 | Washer–Steering |
| 4 | 99–1492–01 | 1 | Castor Fork ASM |
| 5 | 70–8370 | 1 | Bolt |
| 6 | 72–9710 | 1 | Hub–Tire, Sulky |
| 6:1 | 253–111 | 2 | Seal–Oil |
| 6:2 | 254–78 | 2 | Bearing–Cone |
| 6:3 | 254–79 | 2 | Bearing–Roller, Cup |
| 6:4 | 75–9440 | 1 | Hub ASM |
| 6:5 | 302–55 | 1 | Zerk |
| 6:6 | 10–6830 | 4 | Stud–Type, Drive |
| ☆7 | | 1 | Wheel And Tire ASM |
| 7:1 | 70–8500 | 1 | Tire |
| 7:2 | 94–6116 | 1 | Wheel–Rear |
| 7:3 | 232–27 | 1 | Stem–Valve |
| 8 | 242–50 | 4 | Nut–Lug |
| 9 | 3296–67 | 1 | Nut–Lock NI |
| 10 | 92–5838 | 2 | Joint–Ball |
| 11 | 302–60 | 2 | Fitting–Grease |
| 12 | 32151–104 | 2 | Ring–Retaining, Ext |
| 13 | 93–2122 | 1 | Steering Cylinder ASM |
| 14 | 93–2270 | 1 | Hydraulic Hose ASM |
| 15 | 340–132 | 2 | Fitting–HYD, 90° |
| 15:1 | 237–78 | 1 | O–Ring |
| 15:2 | 237–21 | 1 | O–Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 16 | 93–2269 | 1 | Hydraulic Hose ASM |
| 17 | 3220–6 | 4 | Nut–Jam |
| 18 | 254–70 | 2 | Bearing–Cone |
| 19 | 254–61 | 2 | Bearing–Cup |
| 20 | 70–8490 | 2 | Spacer–Spindle, Rear |
| 21 | 302–5 | 1 | Fitting–Grease |
| 22 | 99–1493 | 1 | Decal |
| 23 | 92–5753 | 1 | Clamp–Hose |
| 24 | 32144–14 | 1 | Screw–HWH |
| 25 | 99–1485–01 | 1 | Plate–Adapter, Motor |
| 26 | 99–1486–01 | 1 | Plate–Adapter |
| 27 | 325–6 | 2 | Screw–HH |
| 28 | 3296–23 | 2 | Nut–Lock, NI |
| 29 | 3296–39 | 3 | Nut–Lock, NI |
| 30 | 323–8 | 3 | Screw–HH |

☆ Not serviced separately



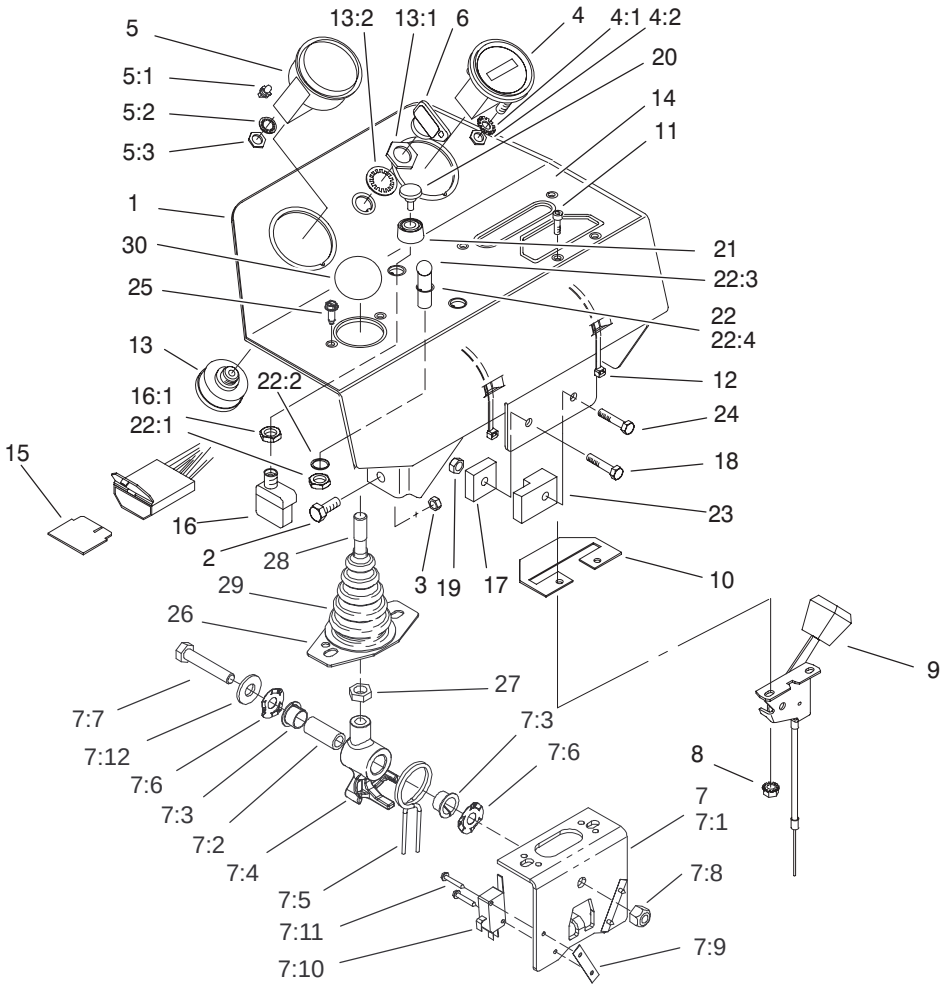

Sheet No.:A4

T–3721

# Steering Cylinder Assembly No. 93–2122

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94–4398 | 1 | Seal Repair Kit |

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



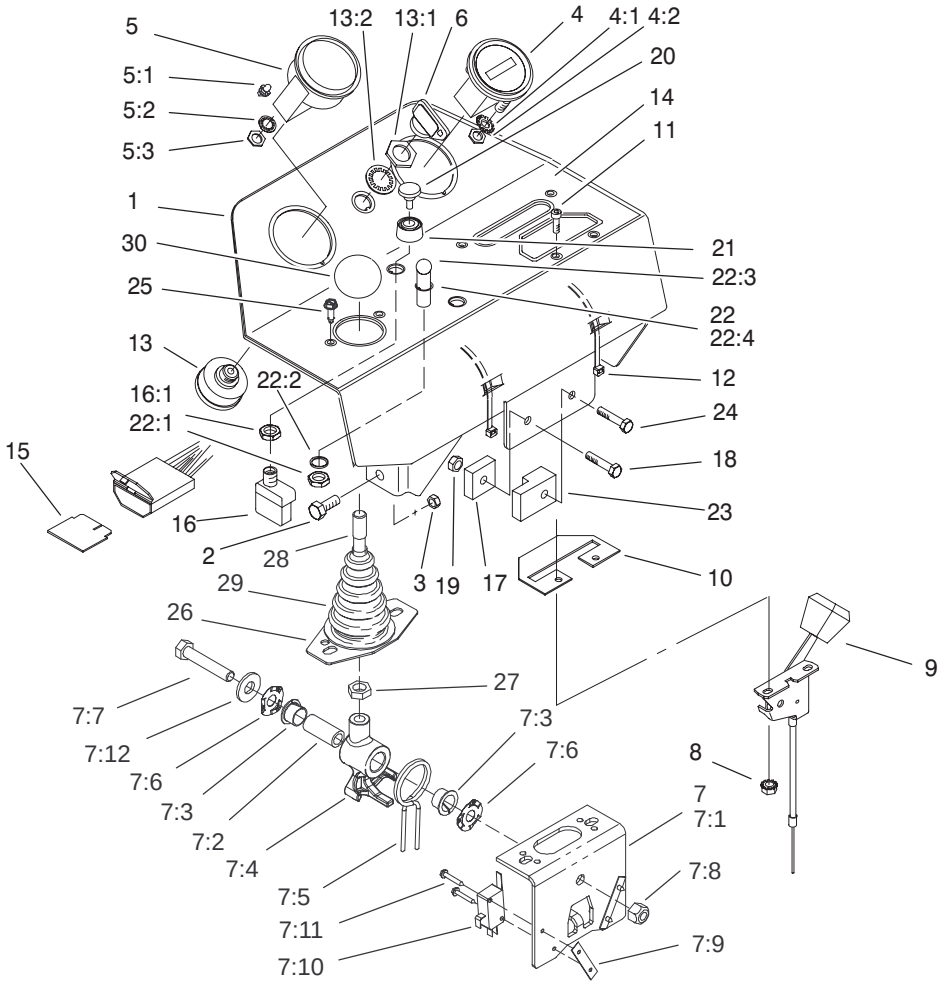

Sheet No.:7

# Console Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100–3185–03 | 1 | Console ASM |
| 2 | 33114–020 | 4 | Screw–HH |
| 3 | 33024–00 | 4 | Nut–Lock |
| 4 | 66–2950 | 1 | Gauge–Hourmeter |
| 4:1 | 3255–20 | 2 | Washer–Lock |
| 4:2 | 3217–25 | 2 | Nut–Hex |
| 5 | 93–7053 | 1 | Cluster–Lamp, Warning |
| 5:1 | 219–17 | 4 | Bulb |
| 5:2 | 3254–1 | 1 | Washer–Lock, Internal |
| 5:3 | 3217–26 | 1 | Nut–Hex |
| 6 | 63–8360 | 1 | Key–Ignition |
| ☆7 | | 1 | Joystick Bracket ASM |
| 7:1 | 106–4168–03 | 1 | Bracket–Joystick |
| 7:2 | 106–4192 | 1 | Spacer |
| 7:3 | 93–5547 | 2 | Bushing–Nylon |
| 7:4 | 105–7507 | 1 | Hub–Pivot, Joystick |
| 7:5 | 105–8289 | 1 | Spring–Torsion |
| 7:6 | 106–4193 | 2 | Washer–Finger, Spring |
| 7:7 | 322–9 | 1 | Screw–HH |
| 7:8 | 3296–29 | 1 | Nut–Lock, NI |
| 7:9 | 3290–354 | 2 | Nut–Speed |
| 7:10 | 111332 | 2 | Switch |
| 7:11 | 147665 | 4 | Screw–HH |
| 7:12 | 3256–3 | 1 | Washer–Flat |
| 8 | 32149–8 | 2 | Nut–Keps |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 9 | 99–8150 | 1 | Control–Throttle |
| 10 | 99–8195–03 | 1 | Plate–Cover |
| 11 | 3273–26 | 2 | Screw–HSH |
| 12 | 3290–378 | 2 | Tie–Cable |
| 13 | 27–2360 | 1 | Switch–Key |
| 13:1 | 218–446 | 1 | Nut–Hex |
| 13:2 | 218–447 | 1 | Washer–Lock |
| 14 | 100–3183 | 1 | Decal–Panel, Control |
| 15 | 92–3188 | 1 | Diode–Board, Circuit |
| 16 | 72–9760 | 1 | Switch |
| 16:1 | 218–498 | 1 | Locknut–Hex |
| 17 | 92–2538 | 1 | Timer–Plug, Glow |
| 18 | 33113–030 | 1 | Screw–HH |
| 19 | 33023–00 | 2 | Nut–Lock |
| 20 | 43–6280 | 1 | Button–Push |
| 21 | 43–6420 | 1 | Bezel |
| 22 | 44–2212 | 1 | Amber Indicator Light ASM |
| 22:1 | 218–535 | 1 | Nut–Hex |
| 22:2 | 218–536 | 1 | Washer–Lock |
| ☆22:3 | | 1 | Bulb |
| 22:4 | 218–562 | 1 | Lens |
| 23 | 99–9666 | 1 | Module |
| 24 | 33113–020 | 1 | Screw–HH |
| 25 | 32144–19 | 2 | Screw–Forming, Thread |

☆ Not serviced separately



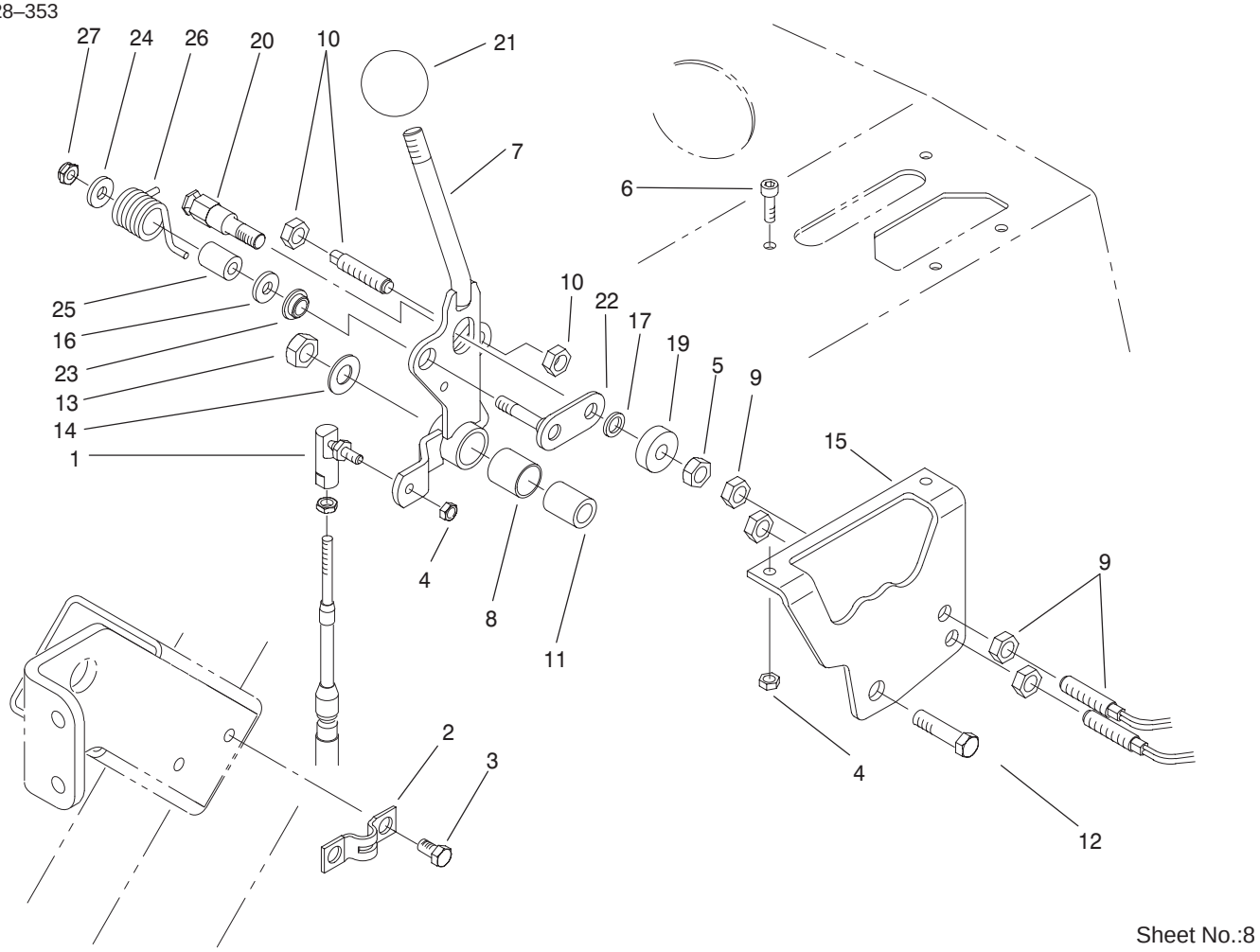

Sheet No.:7

# Console Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 26 | 106–4188–03 | 1 | Plate–Boot |
| 27 | 3218–3 | 1 | Nut–Jam |
| 28 | 105–8288 | 1 | Rod–Joystick |
| 29 | 93–5961 | 1 | Boot–Lever |
| 30 | 233–42 | 1 | Knob |

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

3328–353

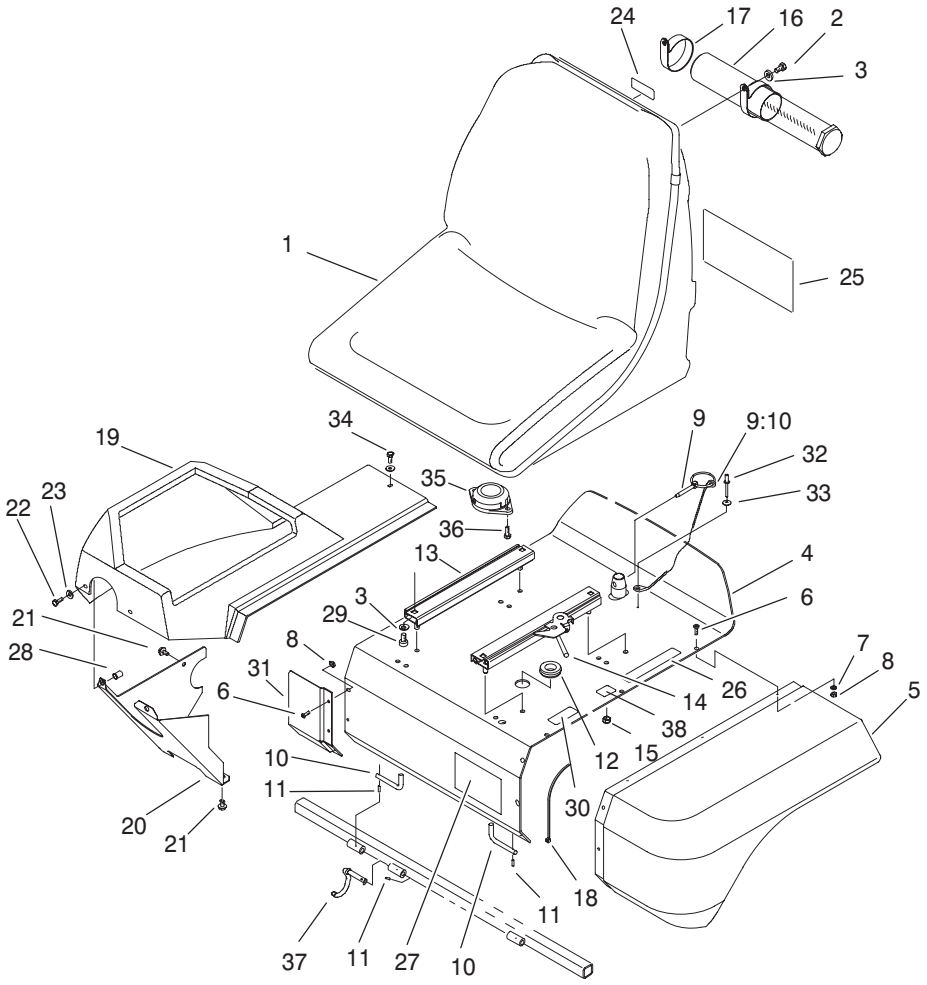



Sheet No.:8

# Functional Control Lever Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 2411–38 | 1 | Joint–Ball |
| 2 | 93–2279 | 1 | Clamp–Cable |
| 3 | 32144–14 | 2 | Screw–HWH |
| 4 | 3296–27 | 2 | Nut–Lock NI |
| 5 | 33024–00 | 1 | Nut–Lock |
| 6 | 3273–26 | 2 | Screw–HSH |
| 7 | 94–9611 | 1 | Handle |
| 8 | 256–311 | 1 | Bushing–Split |
| 9 | 93–2055 | 2 | Sensor–Switch, Reed |
| 10 | 93–2056 | 1 | Actuator–Switch, Reed |
| 11 | 94–1378 | 1 | Tube–Pivot, Handle |
| 12 | 33115–040 | 1 | Screw–HH |
| 13 | 33025–00 | 1 | Nut–Lock |
| 14 | 3256–24 | 1 | Washer–Flat |
| 15 | 94–6398 | 1 | Bracket–Traction |
| 16 | 3256–23 | 1 | Washer–Flat |
| 17 | 75–5470 | 1 | Spacer–Bearing |
| 19 | 251–259 | 1 | Bearing |
| 20 | 94–9617 | 1 | Pin–Spring |
| 21 | 233–42 | 1 | Knob |
| 22 | 94–9614 | 1 | Pivot–Roller |
| 23 | 94–9619 | 1 | Bushing |
| 24 | 3256–67 | 1 | Washer–Flat |
| 25 | 94–9618 | 1 | Spacer–Spring |
| 26 | 94–9620 | 1 | Spring–Torsion |
| 27 | 33023–00 | 1 | Nut–Lock |

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

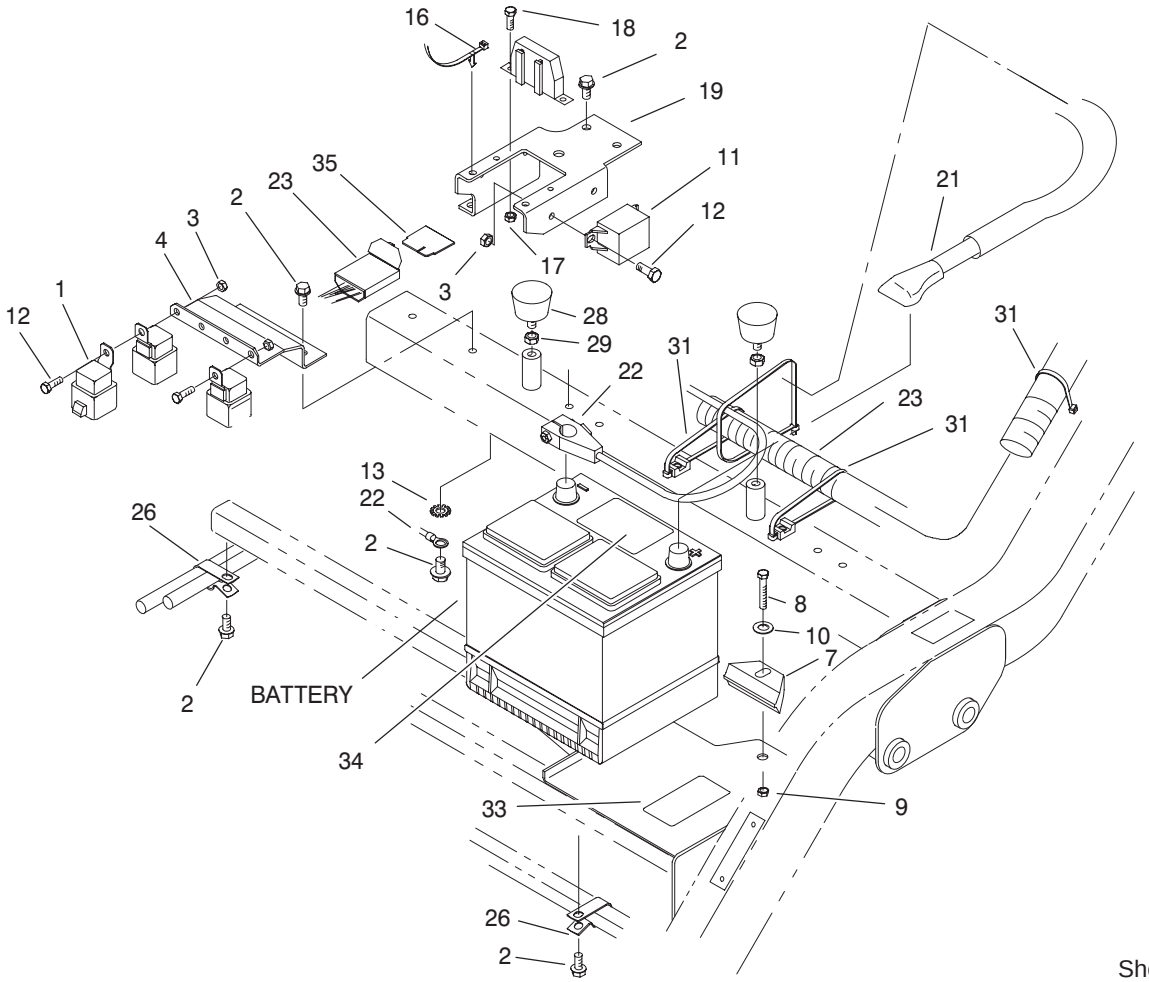



Sheet No.:9

# Seat Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100–3187 | 1 | Seat ASM |
| 2 | 322–2 | 2 | Screw–HH |
| 3 | 3256–23 | 6 | Washer–Flat |
| 4 | 93–2135–03 | 1 | Support–Seat |
| 5 | 93–2128 | 1 | Panel–Base, Seat |
| 6 | 3274–39 | 9 | Screw–HSBH |
| 7 | 3256–77 | 6 | Washer–Flat |
| 8 | 3296–12 | 9 | Nut–Lock |
| 9 | 77–3780 | 1 | Pin ASM |
| 9:10 | 28–8070 | 1 | Lanyard |
| 10 | 93–2422 | 2 | Rod–Pivot, Seat |
| 11 | 32121–7 | 3 | Pin–Spring |
| 12 | 237–100 | 1 | Grommet |
| 13 | 92–8990 | 1 | Adjuster – 7” |
| 14 | 92–8991 | 1 | Adjuster W/Latch |
| 15 | 3296–29 | 4 | Nut–Lock, NI |
| 16 | 74–0720 | 1 | Tube–Manual |
| 17 | 2412–133 | 2 | R–Clamp |
| 18 | 3290–378 | 1 | Tie–Cable |
| 19 | 99–4208 | 1 | Shroud–Console |
| 20 | 94–4547–03 | 1 | Panel–Lower, RH |
| 21 | 32144–14 | 2 | Screw–HWH |
| 22 | 33113–016 | 2 | Screw–HH |
| 23 | 3256–1 | 3 | Washer–Flat |
| 24 | 93–6686 | 1 | Decal–Oil, HYD |
| 25 | 106–6379 | 1 | Decal–Service |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 106–6380 | 1 | Decal–Spanish |
| 25 | 106–6381 | 1 | Decal–French |
| 25 | 106–6382 | 1 | Decal–German |
| 25 | 106–6383 | 1 | Decal–Swedish |
| 25 | 106–6384 | 1 | Decal–Italian |
| 25 | 106–6387 | 1 | Decal–Finnish |
| 25 | 106–6386 | 1 | Decal–Norwegian |
| 25 | 106–6385 | 1 | Decal–Portuguese |
| 25 | 106–6388 | 1 | Decal–Danish |
| 25 | 106–6389 | 1 | Decal–Dutch |
| 25 | 106–6390 | 1 | Decal–Japan |
| 26 | 93–6689 | 1 | Decal–No Riders |
| 27 | 94–2579 | 1 | Decal–Toro |
| 28 | 93–5447 | 2 | Nut–Clinch |
| 29 | 3274–12 | 4 | Screw–HSH |
| 30 | 93–7252 | 1 | Decal–International |
| 31 | 94–4546–03 | 1 | Panel–Extension |
| 32 | 3290–282 | 1 | Rivet–Pop, Steel |
| 33 | 3256–49 | 1 | Washer–Flat |
| 34 | 33113–012 | 1 | Screw–HH |
| 35 | 92–6282 | 1 | Switch–Seat |
| 36 | 32144–10 | 2 | Screw–HWH |
| 37 | 99–4247 | 1 | Wire–Hook |
| 38 | 105–4674 | 1 | Decal–Noise, Ce |



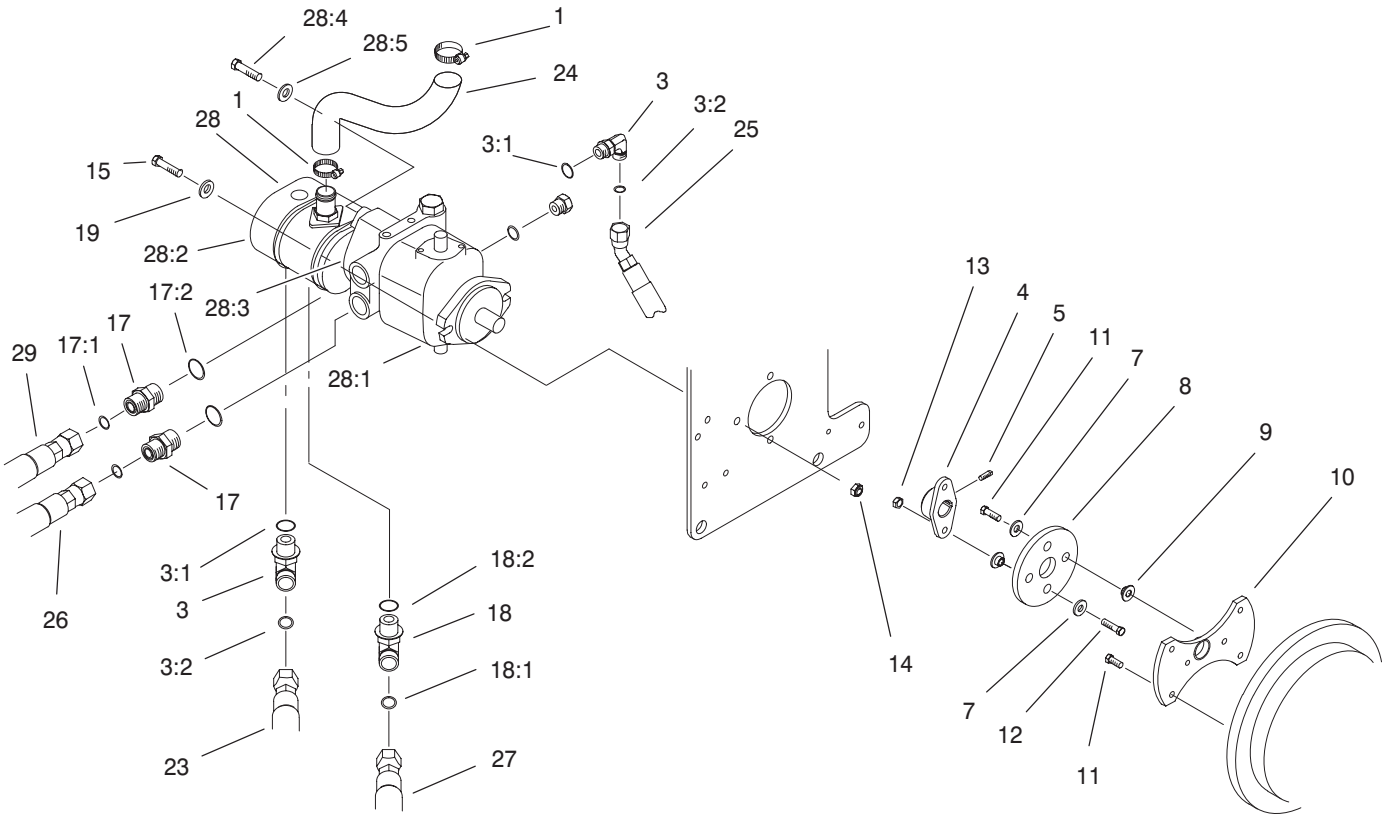

Sheet No.:10

# Electronics Installation Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 70–1480 | 8 | Relay |
| 2 | 32144–11 | 7 | Screw–TAP |
| 3 | 33023–00 | 6 | Nut–Lock |
| 4 | 93–2169–01 | 1 | Bracket–Relay |
| 7 | 66–2490 | 1 | Retainer–Battery |
| 8 | 33115–040 | 1 | Screw–HH |
| 9 | 33025–00 | 1 | Nut–Lock |
| 10 | 3256–24 | 1 | Washer–Flat |
| 11 | 66–8800 | 1 | Relay |
| 12 | 33113–016 | 6 | Screw–HH |
| 13 | 3254–2 | 1 | Washer–Lock, Internal |
| 16 | 94–1325 | 2 | Tie–Mount, Push |
| 17 | 3296–2 | 2 | Nut–Lock |
| 18 | 32105–13 | 2 | Screw–SHH |
| 19 | 100–3186–03 | 1 | Bracket–Holder, Fuse |
| 21 | 95–8853 | 1 | Cable–Battery, Positive |
| 22 | 99–8167 | 1 | Cable–Battery, Negative |
| 23 | 104–7700 | 1 | Wire Harness–Main |
| *23:1 | 67–7120 | 2 | Fusible Link |
| *23:2 | 99–6125 | 1 | Wire ASM–Fusable Link |
| *23:3 | 92–3188 | 2 | Diode–Board, Circuit |
| 26 | 92–5753 | 2 | Clamp–Hose |
| 28 | 68–3270 | 2 | Bumper–Rubber |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 29 | 3218–2 | 2 | Nut–Jam |
| 31 | 3290–378 | 6 | Tie–Cable |
| 33 | 93–6668 | 1 | Decal–Battery |
| 34 | 93–7276 | 1 | Decal–Danger |
| 35 | 92–3188 | 1 | Diode–Board, Circuit |

* Not illustrated



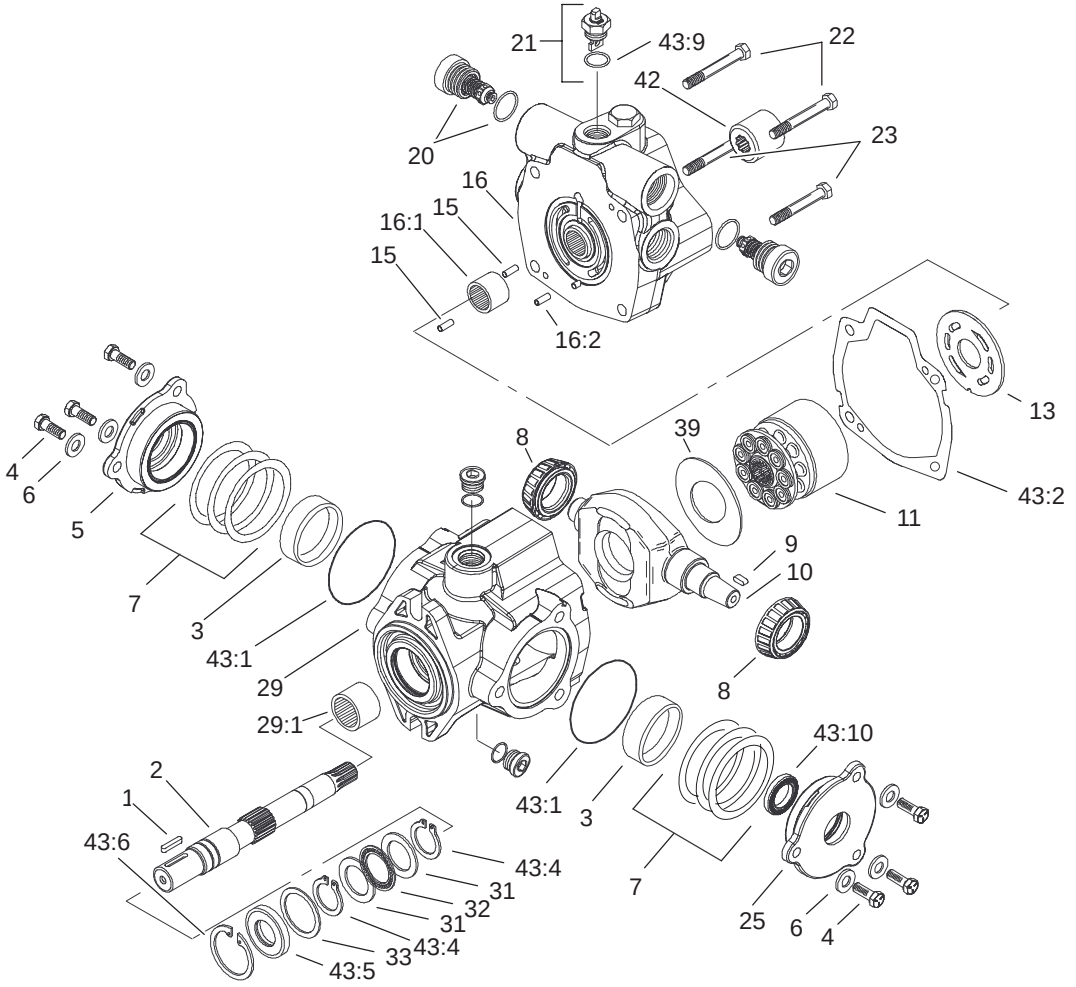

Sheet No.:11

# Hydrostat and Gear Pump Drive Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 2412–34 | 2 | Clamp–Hose |
| 3 | 340–18 | 2 | Fitting–HYD, 90° |
| 3:1 | 237–79 | 1 | O–Ring |
| 3:2 | 237–22 | 1 | O–Ring |
| 4 | 93–2589 | 1 | Hub–Pump |
| 5 | 3241–6 | 2 | Screw–SQH |
| 7 | 3256–3 | 2 | Washer–Flat |
| 8 | 80–8650 | 1 | Coupling–Drive |
| 9 | 27–6600 | 4 | Spacer–Coupling |
| 10 | 93–2220–03 | 1 | Adapter–Pump |
| 11 | 33114–020 | 6 | Screw–HH |
| 12 | 33114–030 | 1 | Screw–HH |
| 13 | 33024–00 | 2 | Nut–Lock |
| 14 | 33025–00 | 2 | Nut–Lock |
| 15 | 33115–040 | 2 | Screw–HH |
| 17 | 340–8 | 2 | Adapter |
| 17:1 | 237–65 | 1 | O–Ring |
| 17:2 | 237–81 | 1 | O–Ring |
| 18 | 340–17 | 1 | Fitting–HYD, 90° |
| 18:1 | 237–65 | 1 | O–Ring |
| 18:2 | 237–80 | 1 | O–Ring |
| 19 | 100–4852 | 2 | Washer–Hardened |
| 23 | 105–4339 | 1 | Hose ASM |
| 24 | 99–1905 | 1 | Hose–Inlet, Pump |
| 25 | 105–9794 | 1 | Hose ASM |
| 26 | 99–4220 | 1 | Hose ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 27 | 99–4216 | 1 | Hose ASM |
| ☆28 | | 1 | Gear Pump ASM |
| 28:1 | 105–0494 | 1 | Hydrostat ASM |
| 28:2 | 104–7737 | 1 | Gear Pump ASM |
| 28:3 | 60–3520 | 1 | O–Ring |
| 28:4 | 3274–1 | 2 | Screw–HSH |
| 28:5 | 3256–24 | 2 | Washer–Flat |
| 29 | 99–4217 | 1 | Hose ASM |

☆ Not serviced separately



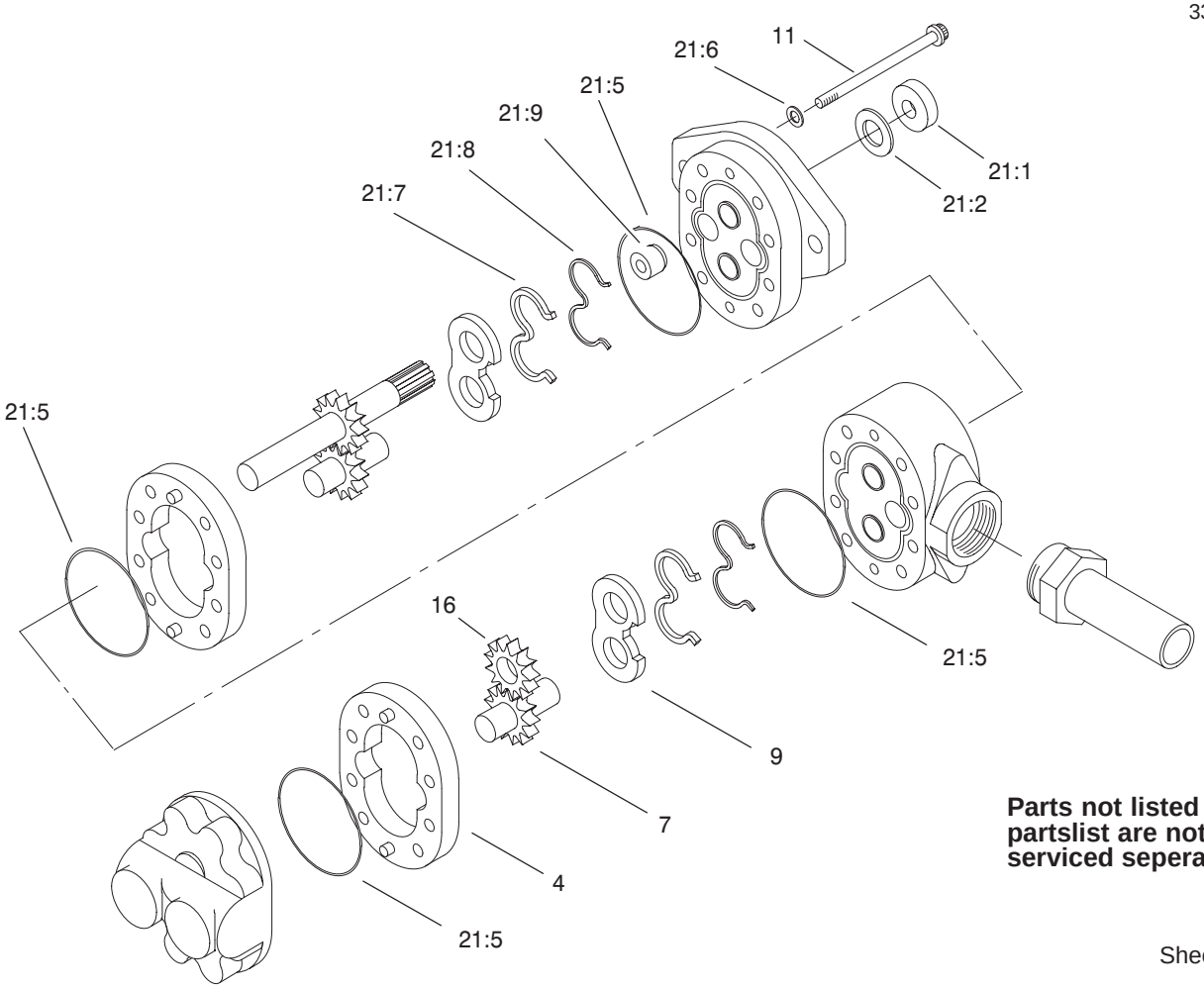

T–2357
Sheet No.:A5

# Hydrostat Assembly No. 105–0494

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94–3645 | 1 | Key |
| 2 | 94–6359 | 1 | Shaft–Drive |
| 3 | 104–4046 | 2 | Bearing–Cup |
| 4 | 98–4640 | 6 | Screw–Cap |
| 5 | 98–4644 | 1 | Plate–Cover |
| 6 | 105–9762 | 6 | Washer |
| 7 | 100–3182 | 2 | Shim Kit |
| 8 | 98–4639 | 2 | Bearing–Cone |
| 9 | 94–3646 | 1 | Key |
| 10 | 100–3175 | 1 | Camplate |
| 11 | 76–6070 | 1 | Rotating Kit |
| 13 | 100–3180 | 1 | Valve–Plate |
| 15 | 76–6150 | 2 | Pin–Dowel |
| 16 | 105–3813 | 1 | Endcover Sub ASM |
| 16:1 | 94–6368 | 1 | Bearing |
| ☆16:2 | | 1 | Pin–Roll |
| 20 | 105–3812 | 2 | Valve–Check |
| 21 | 105–3811 | 1 | Valve–Bypass |
| 22 | 76–6170 | 2 | Capscrew |
| 23 | 76–6160 | 2 | Capscrew |
| 25 | 98–4645 | 1 | Plate–Cover |
| 29 | 100–3176 | 1 | Housing ASM |
| 29:1 | 94–6363 | 1 | Bearing |
| 31 | 252–71 | 2 | Washer–Thrust |
| 32 | 252–66 | 1 | Bearing–Thrust |
| 33 | 33–3720 | 1 | Washer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 39 | 98–4635 | 1 | Insert–Plate, Cam |
| 42 | 74–9040 | 1 | Coupler |
| 43 | 105–3844 | 1 | Seal Repair Kit |
| 43:1 | 100–3179 | 2 | O–Ring |
| 43:2 | 33–4930 | 1 | Gasket–Housing |
| 43:4 | 32151–29 | 2 | Ring–Retaining |
| 43:5 | 104–4861 | 1 | Seal–Shaft |
| 43:6 | 32151–13 | 1 | Ring–Retaining |
| ☆43:7 | | 1 | Ring–Retaining |
| ☆43:8 | | 1 | O–Ring |
| ☆43:9 | | 1 | O–Ring |
| ☆43:10 | | 1 | Seal–Shaft |

☆ Not serviced separately




**Parts not listed in partslist are not serviced seperately.**

Sheet No.:A6

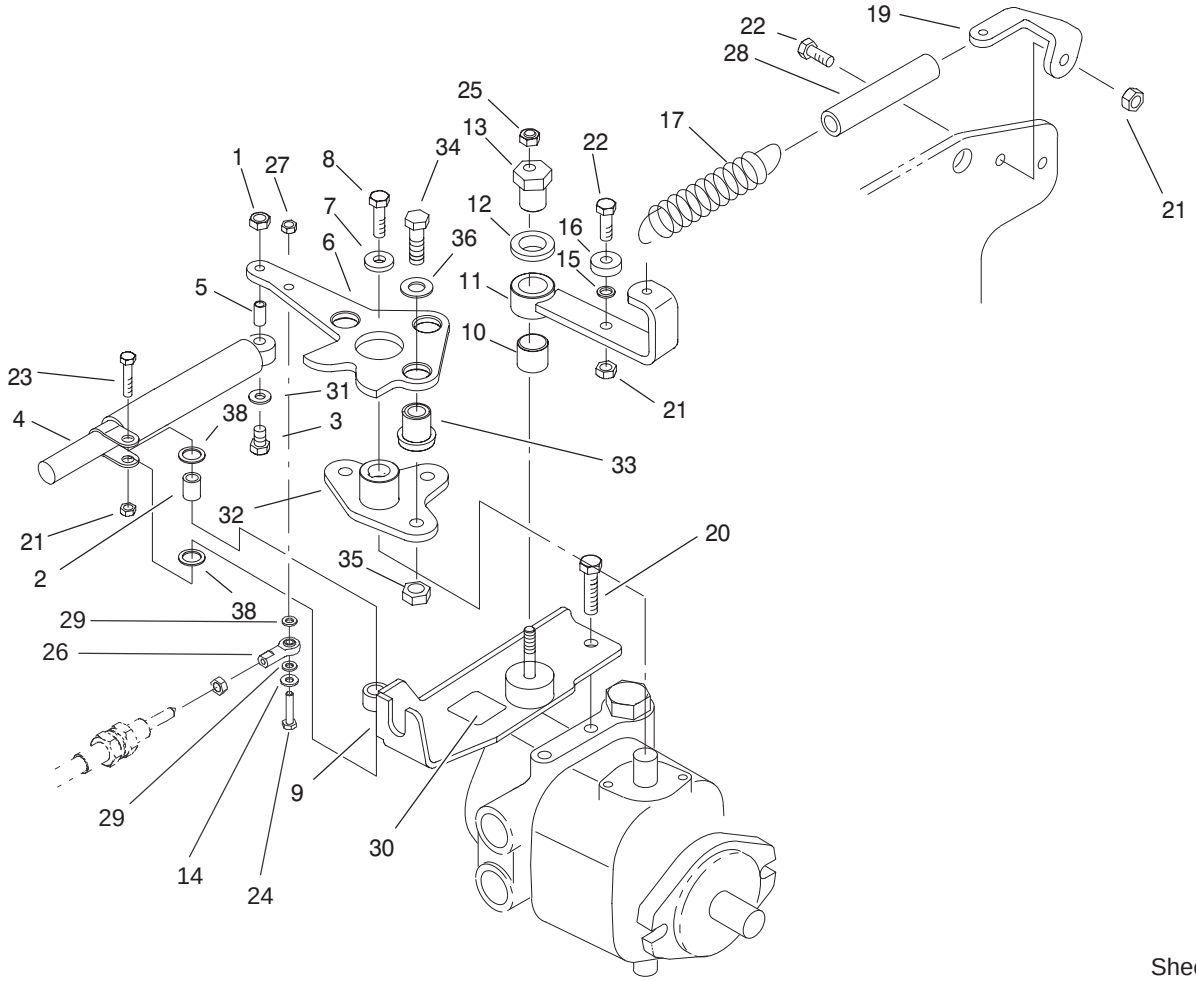
T–3483

# Gear Pump Assembly No. 104–7737

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 4 | 95–4364 | 1 | Body |
| 7 | 95–4366 | 1 | Gear–Idler |
| 9 | 95–4368 | 2 | Plate–Wear |
| 11 | 94–8158 | 8 | Screw–Cap |
| 16 | 95–4373 | 1 | Gear–Fit, Slip |
| 21 | 94–8161 | 1 | Seal Repair Kit |
| 21:1 | 49–2640 | 1 | Seal–Shaft |
| 21:2 | 60–5890 | 1 | Washer |
| ☆21:5 | | 4 | O–Ring |
| 21:6 | 94–8160 | 4 | Washer |
| 21:7 | 95–4369 | 2 | Seal |
| 21:8 | 95–4367 | 2 | Gasket |
| 21:9 | 94–3011 | 1 | Plug |

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

☆ Not serviced separately

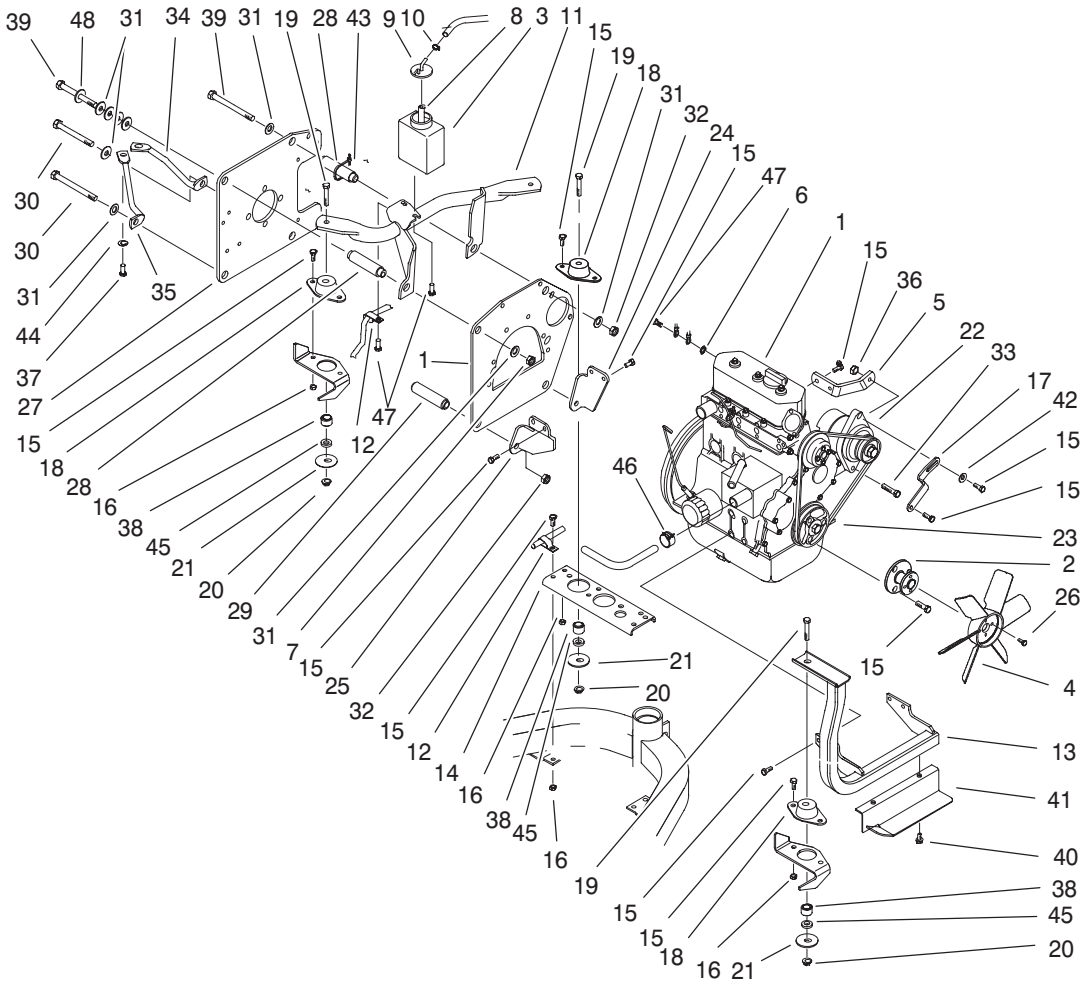



Sheet No.:12

# Neutral System Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 33023–00 | 1 | Nut–Lock |
| 2 | 94–8197 | 1 | Tube–Pivot |
| 3 | 33113–030 | 1 | Screw–HH |
| 4 | 76–8870 | 1 | Lever Damper ASM |
| 5 | 94–1312 | 1 | Spacer–Pivot |
| 6 | 94–3488–03 | 1 | Lever–Pump |
| 7 | 88–7200 | 1 | Washer–Flat |
| 8 | 3210–6 | 1 | Screw–HH |
| 9 | 100–9846 | 1 | Support–Cable |
| 10 | 94–9609 | 1 | Bushing–Straight |
| 11 | 94–4527 | 1 | Arm–Neutral |
| 12 | 3–6498 | 1 | Washer–Thrust |
| 13 | 93–2111 | 1 | Stud–Traction |
| 14 | 3256–22 | 1 | Washer–Flat |
| 15 | 75–5470 | 1 | Spacer–Bearing |
| 16 | 251–259 | 1 | Bearing |
| 17 | 99–4254 | 1 | Spring–Extension |
| 19 | 99–4276 | 1 | Bracket–Spring |
| 20 | 323–4 | 2 | Screw–HH |
| 21 | 33024–00 | 3 | Nut–Lock |
| 22 | 33114–025 | 2 | Screw–HH |
| 23 | 33114–030 | 1 | Screw–HH |
| 24 | 321–8 | 1 | Screw–HH |
| 25 | 3296–29 | 1 | Nut–Lock, NI |
| 26 | 2411–41 | 1 | Joint–Ball |
| 27 | 3296–42 | 1 | Nut–Lock, NI |

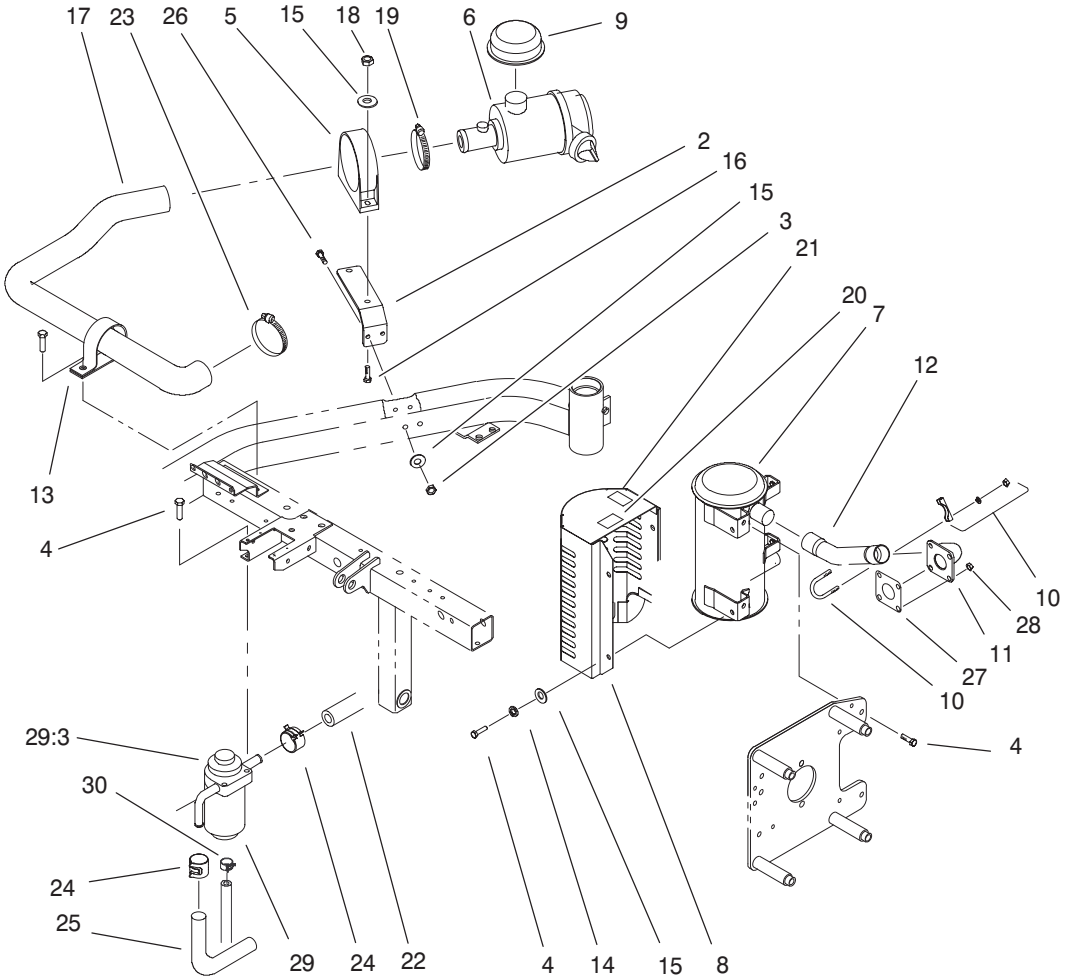
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 28 | 99–4251 | 1 | Hose–Dampener |
| 29 | 33093–00 | 2 | Washer–Flat |
| 30 | 93–9051 | 1 | Decal–Bolt, Eccentric |
| 31 | 3256–22 | 1 | Washer–Flat |
| 32 | 94–3486 | 1 | Plate |
| 33 | 63–9750 | 3 | Mount |
| 34 | 33115–035 | 3 | Screw–HH |
| 35 | 33025–00 | 3 | Nut–Lock |
| 36 | 2844 | 3 | Washer |
| 38 | 94–8196 | 2 | Washer–Nylon |




Sheet No.:13

# Engine Installation Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 99–1481 | 1 | Engine |
| 2 | 99–1495 | 1 | Adapter–Fan |
| 3 | 93–2049 | 1 | Tank–Overflow |
| 4 | 93–2090 | 1 | Fan–Engine |
| 5 | 93–2445 | 1 | Bracket–Alternator, Upper |
| 6 | 3254–2 | 1 | Washer–Lock, Internal |
| 7 | 51–2070 | 1 | Nut |
| 8 | 94–1348 | 1 | Hose–Fuel |
| 9 | 93–2048 | 1 | Cap–Tank, Overflow |
| 10 | 2412–108 | 1 | Clamp–Worm |
| 11 | 100–3190–03 | 1 | Engine Mount ASM |
| 12 | 92–5753 | 2 | Clamp–Hose |
| 13 | 99–1473–03 | 1 | Mount–Engine, Front |
| 14 | 93–2020–01 | 1 | Bracket–Support |
| 15 | 33114–020 | 26 | Screw–HH |
| 16 | 33024–00 | 4 | Nut–Lock |
| 17 | 93–2446 | 1 | Bracket–Alternator, Lower |
| 18 | 83–1030 | 3 | Mount–Engine |
| 19 | 323–11 | 3 | Screw–HH |
| 20 | 3290–357 | 3 | Nut–HHF |
| 21 | 83–1040 | 3 | Washer–Flat |
| 22 | 99–9209 | 1 | Alternator |
| 23 | 99–8153 | 1 | Belt–V |
| 24 | 99–4189–03 | 1 | Bracket–Engine, LH |
| 25 | 99–4188–03 | 1 | Bracket–Engine, RH |
| 26 | 33113–016 | 4 | Screw–HH |
| 27 | 99–4190–03 | 1 | Plate–Pump |
| 28 | 93–2588 | 2 | Spacer–Upper |
| 29 | 93–2174 | 2 | Spacer |
| 30 | 33116–130 | 2 | Screw–HH |
| 31 | 87–7270 | 9 | Washer–Thrust |
| 32 | 33026–00 | 3 | Nut–Lock |
| 33 | 33115–050 | 1 | Screw–HH |
| 34 | 99–4240 | 1 | Brace–Wireform, LH |
| 35 | 99–4238 | 1 | Brace–Wireform, RH |
| 36 | 33025–00 | 1 | Nut–Lock |
| 37 | 323–4 | 2 | Screw–HH |
| 38 | 94–4538 | 3 | Spacer–Mount |
| 39 | 33116–120 | 2 | Screw–HH |
| 40 | 32144–14 | 2 | Screw–HWH |
| 41 | 94–8156–03 | 1 | Deflector–Fan |
| 42 | 3256–3 | 1 | Washer–Flat |
| 43 | 3290–378 | 2 | Tie–Cable |
| 44 | 3256–24 | 2 | Washer–Flat |
| 45 | 66–6480 | 3 | Washer |
| 46 | 92–2379 | 2 | Clamp–Hose |
| 47 | 33114–016 | 3 | Screw–HH |
| 48 | 73–0040 | 1 | Washer–Thrust |



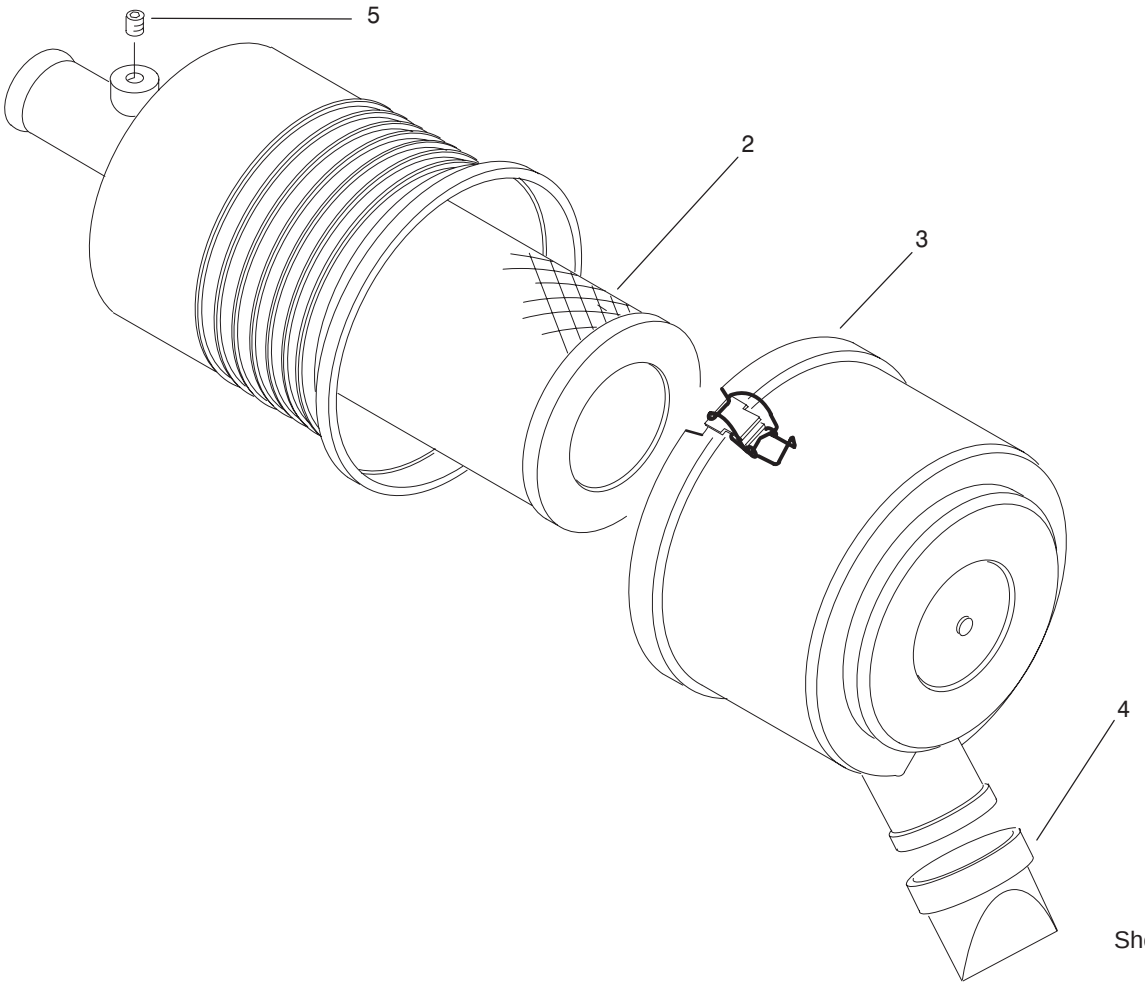

Sheet No.:14

# Air Cleaner and Exhaust Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 99–4203 | 1 | Bracket–Cleaner, Air |
| 3 | 33024–00 | 2 | Nut–Lock |
| 4 | 33114–020 | 8 | Screw–HH |
| 5 | 95–5806 | 1 | Bracket–Mounting |
| 6 | 95–5805 | 1 | Air Cleaner ASM |
| 7 | 94–8153 | 1 | Muffler |
| 8 | 94–8182–03 | 1 | Shield–Muffler |
| 9 | 46–7510 | 1 | Hood–Inlet, Air |
| 10 | 2112–9 | 2 | Clamp |
| 11 | 99–1472 | 1 | Plate–Exhaust |
| 12 | 99–1494 | 1 | Pipe–Exhaust |
| 13 | 2412–107 | 1 | Clamp–R |
| 14 | 3253–4 | 4 | Washer–Lock |
| 15 | 3256–23 | 4 | Washer–Flat |
| 16 | 322–16 | 2 | Screw–HH |
| 17 | 99–4204 | 1 | Hose–Cleaner, Air |
| 18 | 3296–29 | 2 | Nut–Lock, NI |
| 19 | 2412–92 | 1 | Clamp–Hose |
| 20 | 93–8069 | 1 | Decal–Surface, Hot |
| 21 | 93–7275 | 1 | Decal–Fluid, Starting |
| 22 | 92–9283 | 1 | Hose–Fuel |
| 23 | 2412–130 | 1 | Clamp–Hose |
| 24 | 92–2379 | 2 | Clamp–Hose |
| 25 | 93–5553 | 1 | Hose–Fuel |
| 26 | 33114–080 | 2 | Screw–HH |
| 27 | 99–9179 | 1 | Gasket–Exhaust |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 28 | 99–9176 | 4 | Nut–Hex |
| 29 | 100–3191 | 1 | Separator–Fuel |
| *29:1 | 100–3192 | 1 | Element–Filter, Fuel |
| *29:2 | 100–6409 | 1 | Sensor–Filter, Fuel |
| 29:3 | 100–6408 | 1 | Cover–Filter |
| 30 | 94–8189 | 1 | Clamp–Hose |

* Not illustrated

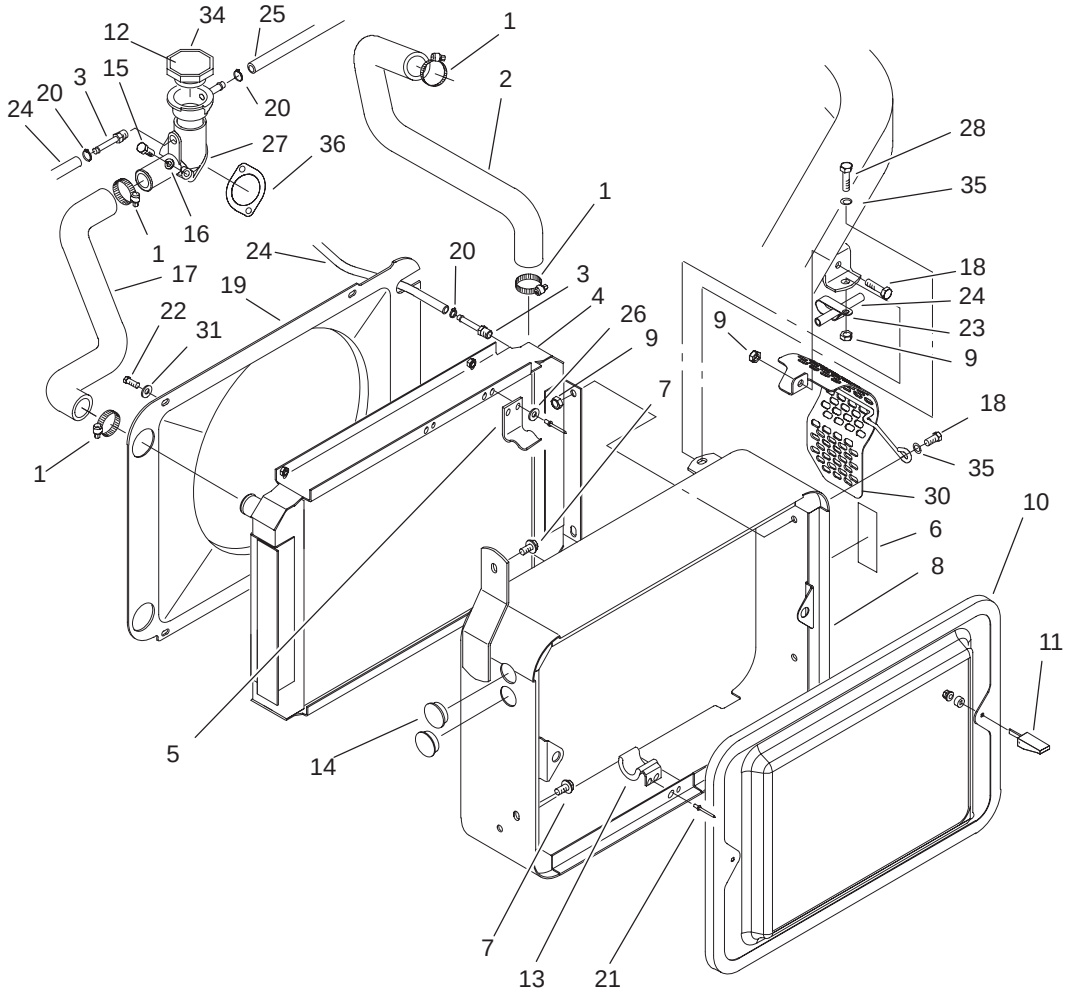



Sheet No.:A8
T–2607

# Air Cleaner Assembly No. 95–5805

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

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

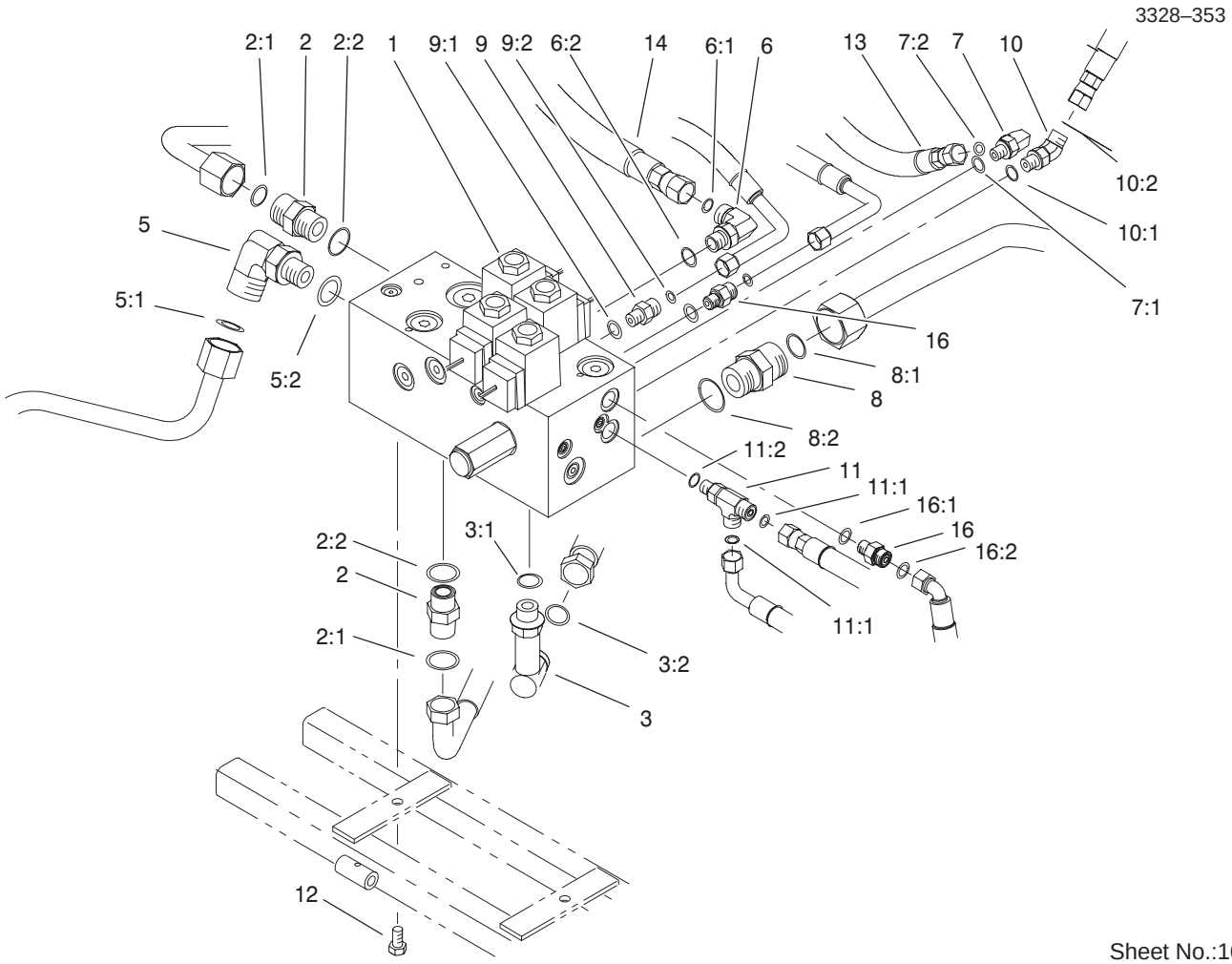



Sheet No.:15

# Radiator Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 2412–34 | 4 | Clamp–Hose |
| 2 | 99–1469 | 1 | Hose–Radiator |
| 3 | 304–73 | 2 | Connector–Hose |
| 4 | 99–8193 | 1 | Radiator |
| 5 | 104–7736 | 1 | Bracket–Cooler, Upper |
| 6 | 93–6681 | 1 | Decal–Warning, Fan |
| 7 | 32144–14 | 2 | Screw–HWH |
| 8 | 100–3163–01 | 1 | Radiator Support ASM |
| 9 | 33024–00 | 6 | Nut–Lock |
| 10 | 100–3172–03 | 1 | Screen ASM |
| 11 | 74–5950 | 2 | Latch–Swell |
| 12 | 106–5976 | 1 | Decal–Cap, Radiator |
| 13 | 93–2424 | 2 | Bracket–Cooler, Lower |
| 14 | 94–4528 | 2 | Plug |
| 15 | 33113–025 | 2 | Screw–HH |
| 16 | 3253–3 | 2 | Washer–Lock |
| 17 | 93–2018 | 1 | Hose–Radiator |
| 18 | 33114–020 | 5 | Screw–HH |
| 19 | 93–2320 | 1 | Shroud–Fan |
| 20 | 2412–108 | 3 | Clamp–Worm |
| 21 | 3269–15 | 6 | Rivet |
| 22 | 33113–016 | 4 | Screw–HH |
| 23 | 92–5753 | 1 | Clamp–Hose |
| 24 | 27–4480 | 1 | Hose–Fuel |
| 25 | 92–9283 | 1 | Hose–Fuel |
| 26 | 3269–6 | 2 | Washer |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 27 | 93–2448 | 1 | Thermostat Housing ASM |
| 28 | 33114–025 | 1 | Screw–HH |
| 30 | 100–3164–03 | 1 | Guard–Alternator |
| 31 | 3256–22 | 4 | Washer–Flat |
| 34 | 66–3240 | 1 | Cap–Radiator |
| 35 | 3256–23 | 2 | Washer–Flat |
| 36 | 99–9163 | 1 | Gasket–Outlet |

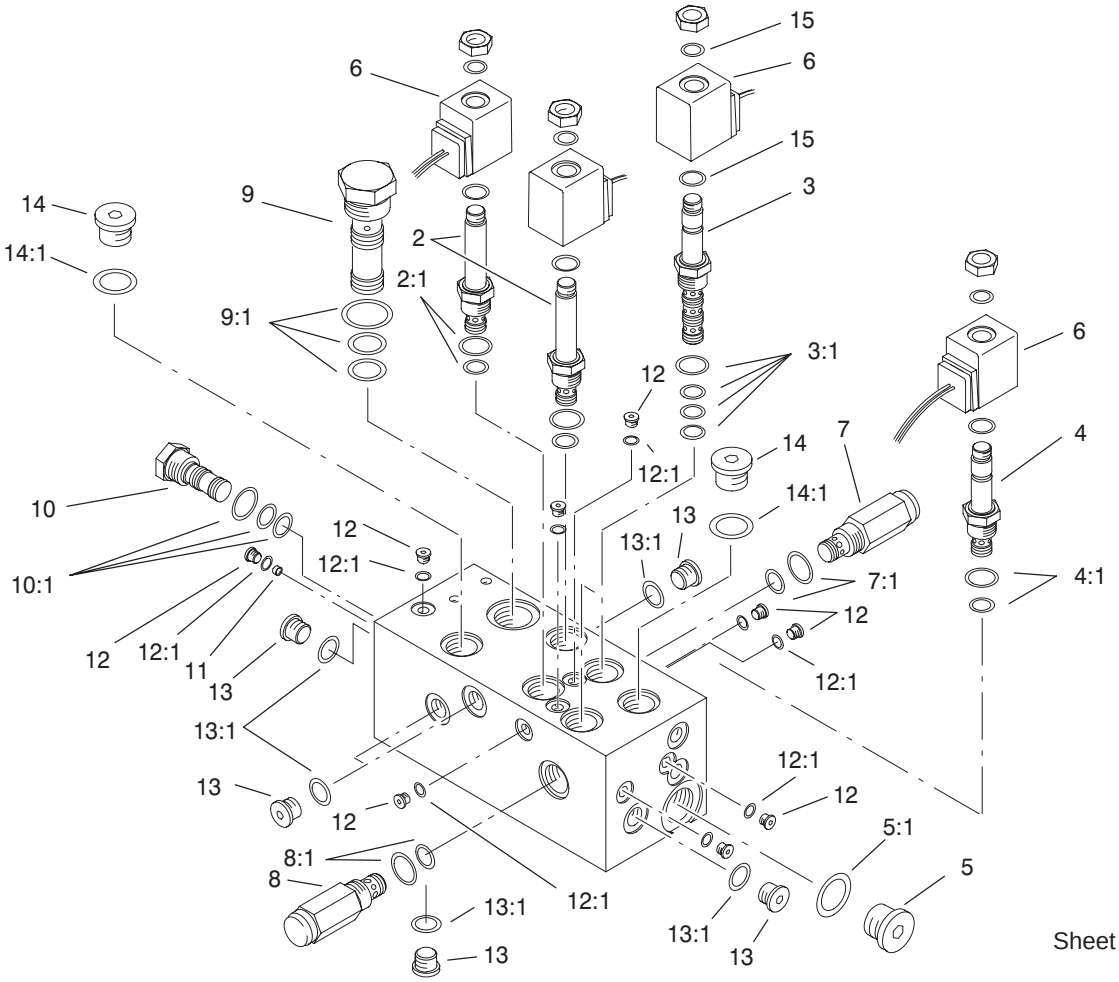



Sheet No.:16

# Manifold Block Installation Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93–2240 | 1 | Manifold–Mow/Lift, Basic |
| 2 | 340–7 | 2 | Adapter |
| 2:1 | 237–65 | 1 | O–Ring |
| 2:2 | 237–80 | 1 | O–Ring |
| 3 | 99–4214 | 1 | Fitting–Hydraulic |
| 3:1 | 237–79 | 1 | O–Ring |
| 3:2 | 237–30 | 1 | O–Ring |
| 5 | 340–17 | 1 | Fitting–HYD, 90° |
| 5:1 | 237–65 | 1 | O–Ring |
| 5:2 | 237–80 | 1 | O–Ring |
| 6 | 340–77 | 1 | Fitting–HYD, 90° |
| 6:1 | 237–22 | 1 | O–Ring |
| 6:2 | 237–42 | 1 | O–Ring |
| 7 | 340–132 | 1 | Fitting–HYD, 90° |
| 7:1 | 237–78 | 1 | O–Ring |
| 7:2 | 237–21 | 1 | O–Ring |
| 8 | 340–9 | 1 | Fitting–Straight |
| 8:1 | 237–58 | 1 | O–Ring |
| 8:2 | 237–81 | 1 | O–Ring |
| 9 | 340–92 | 1 | Fitting–HYD, Straight |
| 9:1 | 237–78 | 1 | O–Ring |
| 9:2 | 237–21 | 1 | O–Ring |
| 10 | 340–103 | 1 | Fitting–HYD, 45° |
| 10:1 | 237–78 | 1 | O–Ring |
| 10:2 | 237–21 | 1 | O–Ring |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 11 | 340–140 | 1 | Adapter–Tee |
| 11:1 | 237–21 | 2 | O–Ring |
| 11:2 | 237–78 | 1 | O–Ring |
| 12 | 33114–016 | 2 | Screw–HH |
| 13 | 93–2271 | 1 | Hydraulic Hose ASM |
| 14 | 105–9790 | 1 | Hose ASM |
| 16 | 95–1639 | 2 | Fitting–HYD |
| 16:1 | 237–78 | 1 | O–Ring |
| 16:2 | 237–21 | 1 | O–Ring |

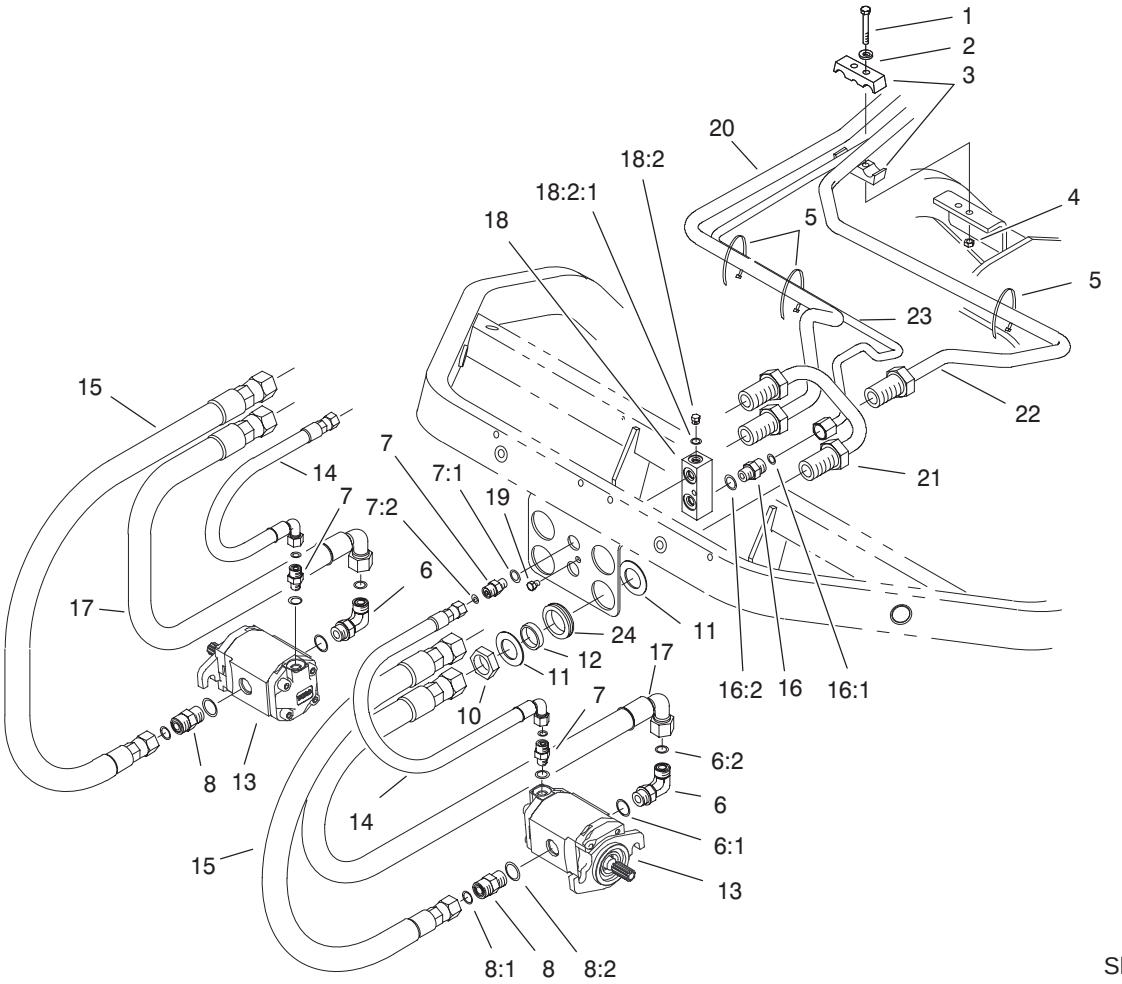



Sheet No.:A9
T–2251

# Basic Mow/Lift Manifold Assembly No. 93–2240

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 2 | 93–7494 | 2 | Cartridge |
| 2:1 | 75–2080 | 1 | Seal Kit |
| 3 | 94–2627 | 1 | Cartridge |
| 3:1 | 95–5642 | 1 | Seal Kit |
| 4 | 92–6315 | 1 | Cartridge–N.c., Poppet |
| 4:1 | 104–0004 | 1 | Cartridge Seal Kit |
| 5 | 353–988 | 1 | Plug–Hex, Hollow |
| 5:1 | 237–79 | 1 | O–Ring |
| 6 | 88–9190 | 4 | Solenoid Coil Kit |
| 7 | 95–1601 | 1 | Cartridge–Relief |
| 7:1 | 95–5645 | 1 | Seal Kit |
| 8 | 94–6351 | 1 | Cartridge–Relief |
| 8:1 | 95–5645 | 1 | Seal Kit |
| 9 | 94–6352 | 1 | Plug–Cavity |
| 9:1 | 104–7730 | 1 | Seal Kit |
| 10 | 94–6353 | 1 | Plug–Cavity |
| 10:1 | 69–4240 | 1 | Seal Kit |
| 11 | 95–5999 | 1 | Plug–Orifice |
| 12 | 353–991 | 9 | Plug–Hex, Hollow |
| 12:1 | 237–156 | 1 | O–Ring |
| 13 | 353–989 | 6 | Plug–Hex, Hollow |
| 13:1 | 237–42 | 1 | O–Ring |
| 14 | 354–70 | 2 | Plug–Hex, Hollow |
| 14:1 | 237–80 | 1 | O–Ring |
| 15 | 94–5438 | 8 | Seal–Solenoid |

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

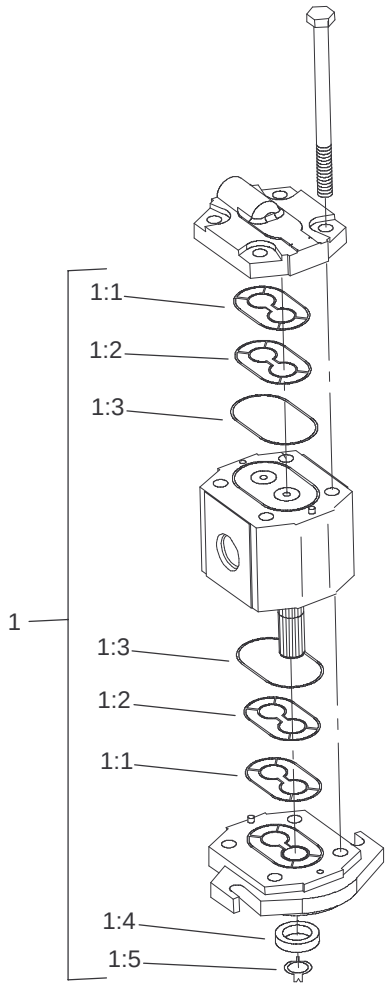



Sheet No.:17

# Front Bulkhead and Reel Motor Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 33113–050 | 2 | Screw–HH |
| 2 | 3256–1 | 2 | Washer–Flat |
| 3 | 93–2509 | 2 | Clamp–Tube |
| 4 | 33023–00 | 2 | Nut–Lock |
| 5 | 3290–378 | 3 | Tie–Cable |
| 6 | 340–98 | 2 | Fitting–HYD, 90° |
| 6:1 | 237–79 | 1 | O–Ring |
| 6:2 | 237–30 | 1 | O–Ring |
| 7 | 340–92 | 4 | Fitting–HYD, Straight |
| 7:1 | 237–78 | 1 | O–Ring |
| 7:2 | 237–21 | 1 | O–Ring |
| 8 | 340–4 | 2 | Adapter |
| 8:1 | 237–30 | 1 | O–Ring |
| 8:2 | 237–79 | 1 | O–Ring |
| 10 | 340–74 | 2 | Locknut–Bulkhead |
| 11 | 69–9010 | 4 | Washer |
| 12 | 69–9000 | 2 | Spacer |
| 13 | 100–6426 | 2 | HYD Motor ASM |
| 14 | 93–2264 | 2 | Hydraulic Hose ASM |
| 15 | 95–2908 | 2 | Hose ASM |
| 16 | 340–2 | 1 | Fitting–Straight, HYD |
| 16:1 | 237–22 | 1 | O–Ring |
| 16:2 | 237–42 | 1 | O–Ring |
| 17 | 95–2909 | 2 | Hose ASM |
| 18 | 93–2238 | 1 | T–Block |
| 18:2 | 353–991 | 1 | Plug–Hex, Hollow |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 18:2:1 | 237–156 | 1 | O–Ring |
| 19 | 33113–008 | 1 | Screw–HH |
| 20 | 94–1318 | 1 | Tube–Hydraulic |
| 21 | 94–1319 | 1 | Tube–HYD |
| 22 | 94–1320 | 1 | Tube–Hydraulic |
| 23 | 94–1321 | 1 | Tube–Hydraulic |
| 24 | 240–3 | 2 | Grommet–Rubber |



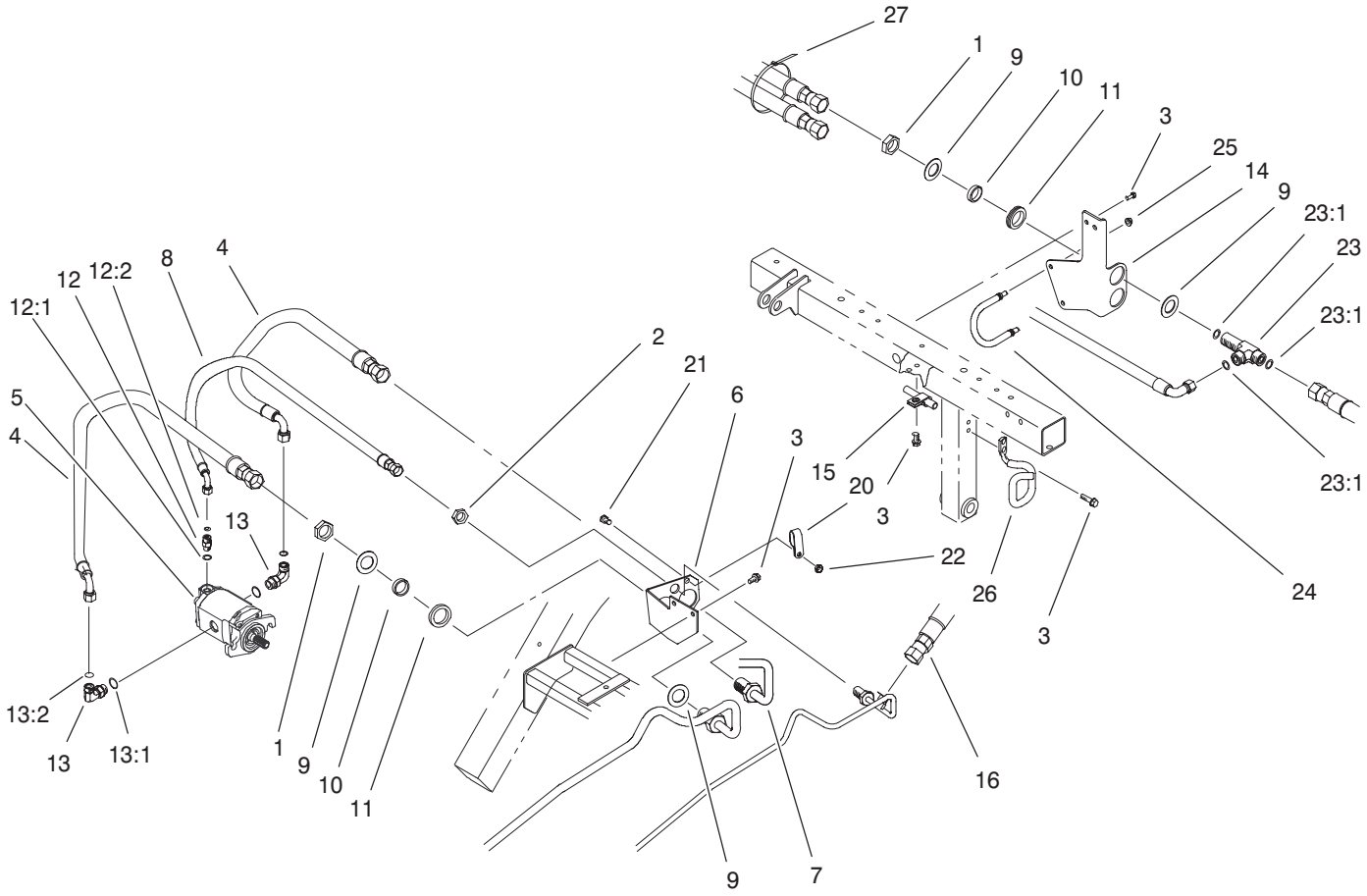

Sheet No.:B1

# Reel Motor Assembly No. 100–6426

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105–9758 | 1 | Seal Kit |
| ☆1:1 | | 2 | Seal–Extrusion, Anti |
| ☆1:2 | | 2 | Seal–Pressure |
| ☆1:3 | | 2 | O–Ring |
| ☆1:4 | | 1 | Seal–Shaft |
| ☆1:5 | | 1 | Washer–Backup |

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

☆ Not serviced separately

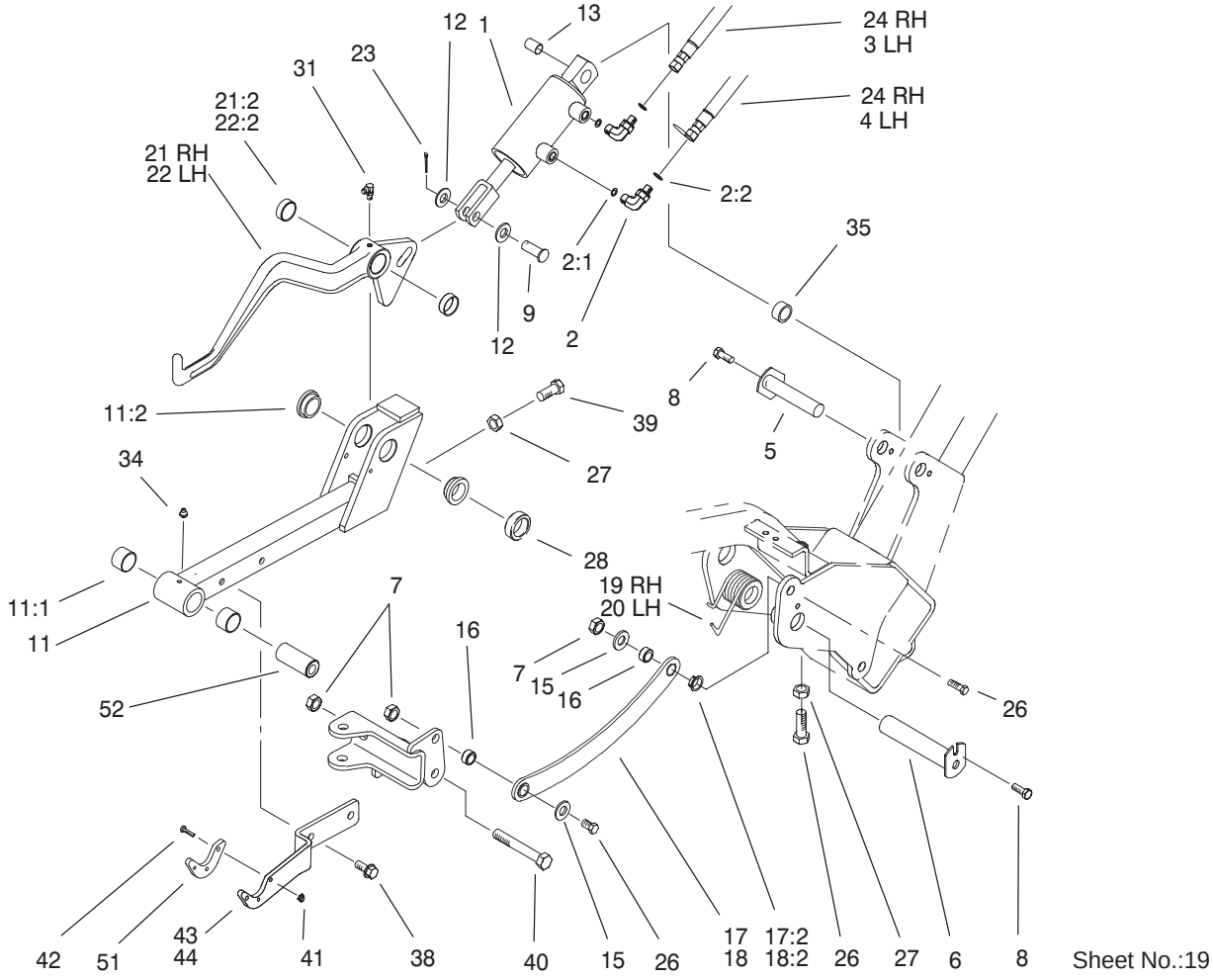



Sheet No.:18

# Rear Bulkhead and Reel Motor Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 340–74 | 4 | Locknut–Bulkhead |
| 2 | 340–70 | 1 | Nut–Lock |
| 3 | 32144–14 | 7 | Screw–HWH |
| 4 | 95–2907 | 2 | Hose ASM |
| 5 | 100–6426 | 1 | HYD Motor ASM |
| 6 | 94–1316 | 1 | Bracket–Bulkhead |
| 7 | 94–1317 | 1 | Tube–Hydraulic |
| 8 | 94–1328 | 1 | Hose ASM |
| 9 | 69–9010 | 8 | Washer |
| 10 | 69–9000 | 4 | Spacer |
| 11 | 240–3 | 4 | Grommet–Rubber |
| 12 | 340–92 | 1 | Fitting–HYD, Straight |
| 12:1 | 237–78 | 1 | O–Ring |
| 12:2 | 237–21 | 1 | O–Ring |
| 13 | 340–98 | 2 | Fitting–HYD, 90° |
| 13:1 | 237–79 | 1 | O–Ring |
| 13:2 | 237–30 | 1 | O–Ring |
| 14 | 99–4222–03 | 1 | Bracket–Hose |
| 15 | 2412–4 | 1 | Clamp |
| 16 | 94–4539 | 1 | Hose ASM |
| 20 | 2412–137 | 1 | Clamp–Tube |
| 21 | 33114–020 | 1 | Screw–HH |
| 22 | 33024–00 | 1 | Nut–Lock |
| 23 | 94–5350 | 2 | Tee–Bulkhead |
| 23:1 | 237–65 | 3 | O–Ring |
| 24 | 99–4221 | 1 | Retainer–Hose |

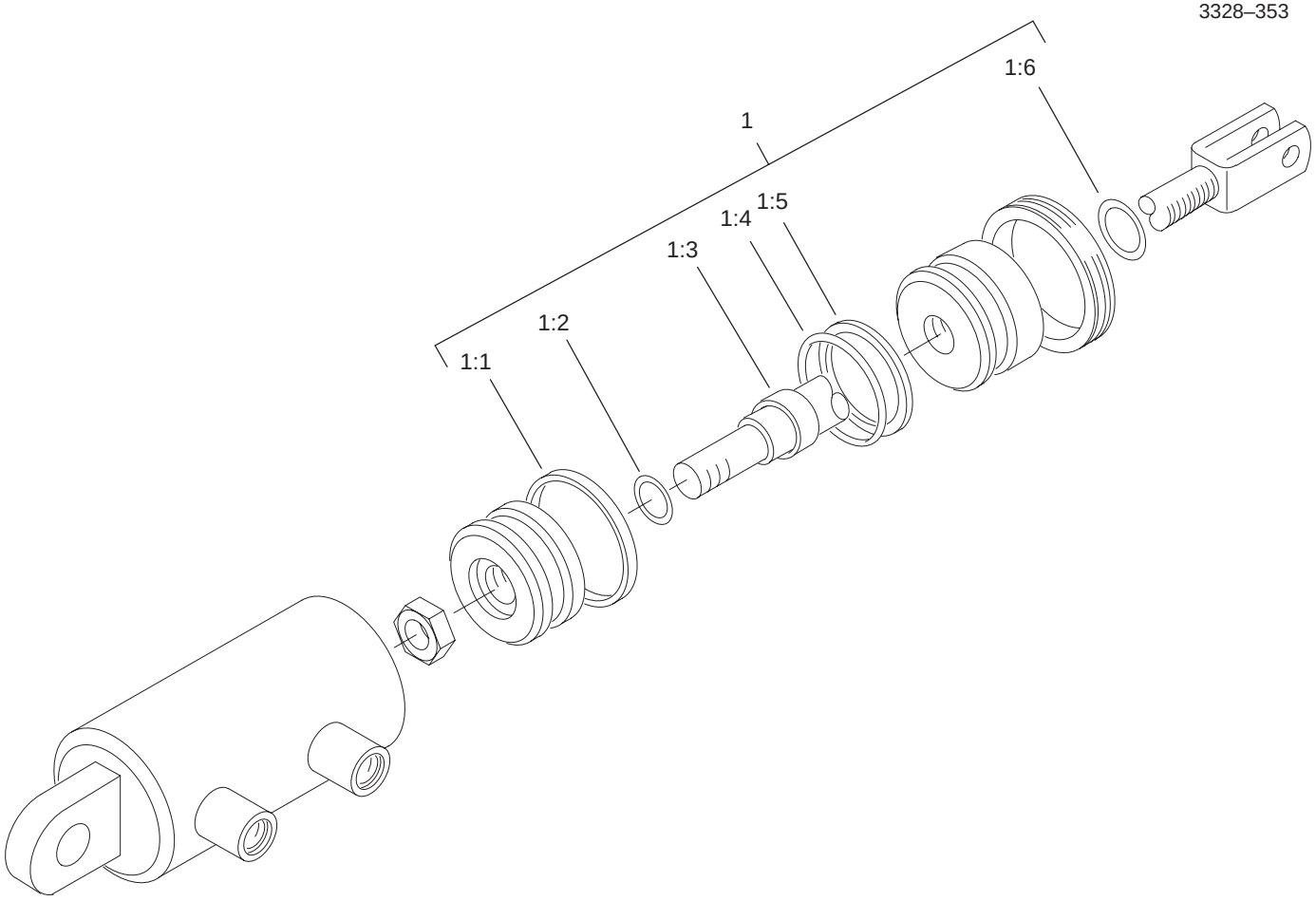
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 25 | 3296–29 | 2 | Nut–Lock, NI |
| 26 | 94–5352 | 1 | Retainer–Hose |
| 27 | 3290–378 | 1 | Tie–Cable |




# LH and RH Lift Arm Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105–3821 | 2 | Hydraulic Cylinder ASM |
| 2 | 340–132 | 4 | Fitting–HYD, 90° |
| 2:1 | 237–78 | 1 | O–Ring |
| 2:2 | 237–21 | 1 | O–Ring |
| 3 | 93–2255 | 1 | Hydraulic Hose ASM |
| 4 | 93–2256 | 1 | Hydraulic Hose ASM |
| 5 | 10–6060 | 2 | Pin–Pivot, Ram |
| 6 | 94–8198 | 2 | Pin |
| 7 | 3296–25 | 6 | Nut–Lock, NI |
| 8 | 32144–14 | 4 | Screw–HWH |
| 9 | 283–68 | 2 | Pin–Clevis |
| 11 | 99–4115 | 2 | Front Lift Frame ASM |
| 11:1 | 98–4166 | 2 | Bushing |
| 11:2 | 94–9610 | 2 | Bushing–Flange |
| 12 | 33096–00 | 4 | Washer–Flat |
| 13 | 105–3838 | 2 | Spacer |
| 15 | 3256–26 | 4 | Washer–Flat |
| 16 | 99–4201 | 4 | Tube–Spacer |
| 17 | 99–4258 | 1 | RH Link Bracket ASM |
| 17:2 | 99–4243 | 2 | Bushing–Flange |
| 18 | 99–4260 | 1 | LH Link Bracket ASM |
| 18:2 | 99–4243 | 2 | Bushing–Flange |
| 19 | 105–3809 | 1 | Spring–Torsion, RH |
| 20 | 105–3818 | 1 | Spring–Torsion, LH |
| 21 | 99–4213 | 1 | RH Lift Arm ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21:2 | 92–8995 | 2 | Bushing |
| 22 | 99–4212 | 1 | LH Lift Arm ASM |
| 22:2 | 92–8995 | 2 | Bushing |
| 23 | 3272–11 | 2 | Pin–Cotter |
| 24 | 93–2254 | 2 | Hydraulic Hose ASM |
| 26 | 325–6 | 5 | Screw–HH |
| 27 | 3218–5 | 3 | Nut–Jam |
| 28 | 93–2384 | 2 | Spacer–Carrier |
| 31 | 302–60 | 2 | Fitting–Grease |
| 34 | 302–5 | 2 | Fitting–Grease |
| 35 | 74–3730 | 2 | Spacer–Spindle, Rear |
| 38 | 32144–69 | 4 | Screw–HH |
| 39 | 325–4 | 2 | Screw–HH |
| 40 | 325–14 | 2 | Screw–HH |
| 41 | 3296–54 | 6 | Nut–Lock NI |
| 42 | 3250–17 | 6 | Screw–PPH |
| 43 | 99–4111–01 | 1 | Plate–Transport, #1 And #3 |
| 44 | 99–4112–01 | 1 | Plate–Transport, #2 |
| 51 | 99–4225 | 2 | Pad–Wear |
| 52 | 99–4072 | 2 | Spacer–Frame, Pull |




T–3724

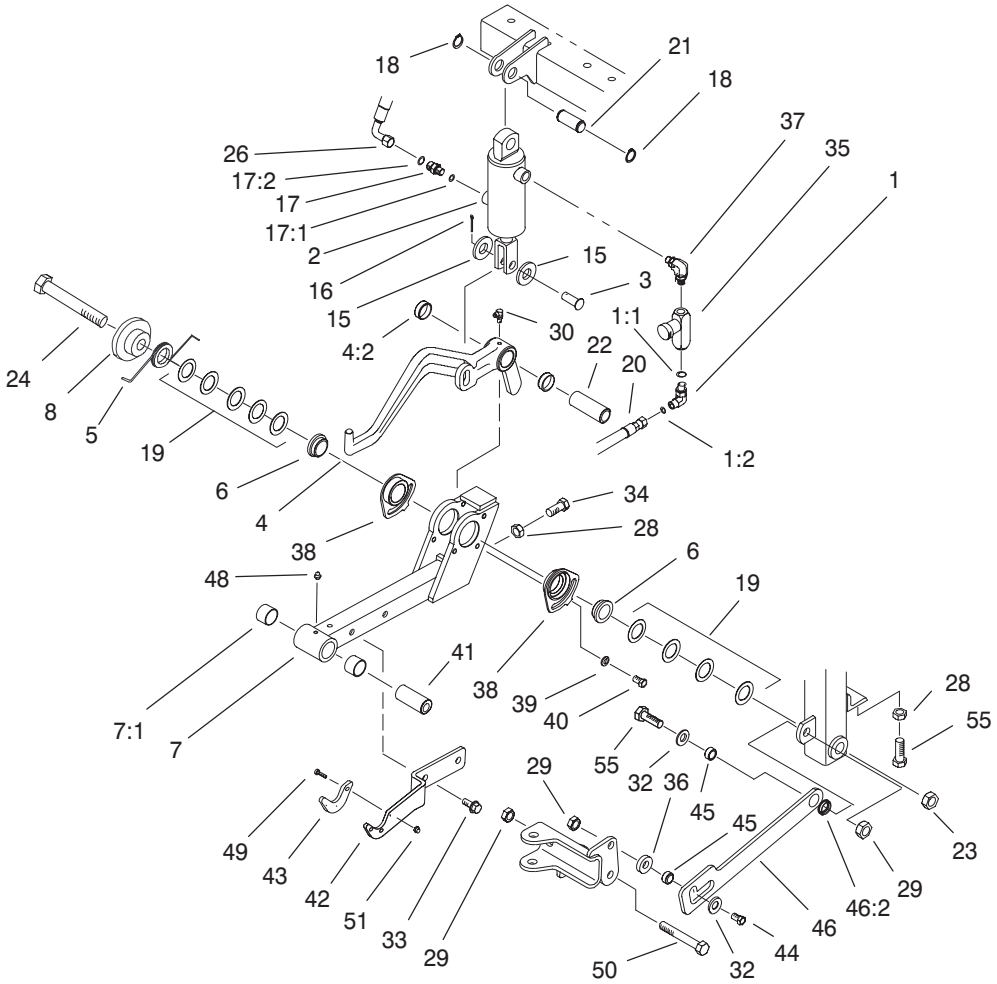
Sheet No.:B2

# Hydraulic Cylinder Assembly No. 105–3821

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105–3836 | 1 | Seal Kit |
| ☆1:1 | | 1 | T–Seal |
| ☆1:2 | | 1 | O–Ring |
| ☆1:3 | | 1 | Seal–Rod |
| ☆1:4 | | 1 | O–Ring |
| ☆1:5 | | 1 | Backup |
| ☆1:6 | | 1 | Seal–Dust |

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

☆ Not serviced separately

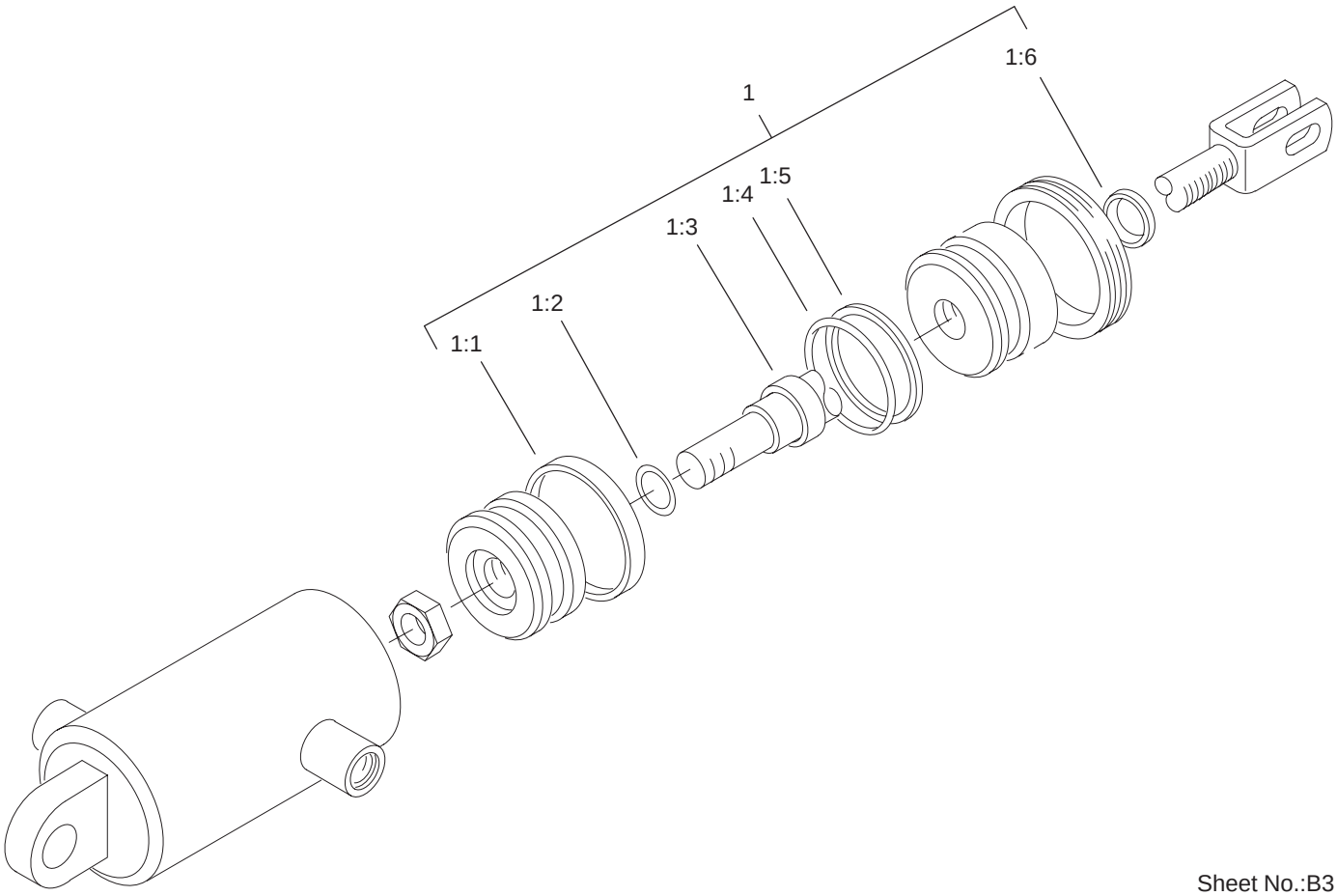



Sheet No.:20

# Center Lift Arm Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 340–132 | 1 | Fitting–HYD, 90° |
| 1:1 | 237–78 | 1 | O–Ring |
| 1:2 | 237–21 | 1 | O–Ring |
| 2 | 105–3820 | 1 | Hydraulic Cylinder ASM |
| 3 | 283–68 | 1 | Pin–Clevis |
| 4 | 99–4126 | 1 | Center Lift Arm ASM |
| 4:2 | 92–8995 | 2 | Bushing |
| 5 | 105–9781 | 1 | Spring–Torsion |
| 6 | 98–2197 | 2 | Bushing–Flange |
| 7 | 99–4116 | 1 | Rear Lift Frame ASM |
| 7:1 | 98–4166 | 2 | Bushing |
| 8 | 105–9779 | 1 | Guide–Spring |
| 15 | 33096–00 | 2 | Washer–Flat |
| 16 | 3272–11 | 1 | Pin–Cotter |
| 17 | 95–1639 | 1 | Fitting–HYD |
| 17:1 | 237–78 | 1 | O–Ring |
| 17:2 | 237–21 | 1 | O–Ring |
| 18 | 32120–72 | 2 | Ring–Snap |
| 19 | 63–2290 | 9 | Washer–Thrust |
| 20 | 93–2258 | 1 | Hydraulic Hose ASM |
| 21 | 94–3452 | 1 | Pin |
| 22 | 94–8199 | 1 | Tube–Pivot |
| 23 | 3296–53 | 1 | Nut–Lock, NI |
| 24 | 327–25 | 1 | Screw–HH |
| 26 | 94–3477 | 1 | Hydraulic Hose ASM |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 28 | 3218–5 | 2 | Nut–Jam |
| 29 | 3296–25 | 3 | Nut–Lock, NI |
| 30 | 302–60 | 1 | Fitting–Grease |
| 32 | 3256–26 | 2 | Washer–Flat |
| 33 | 32144–69 | 2 | Screw–HH |
| 34 | 325–5 | 1 | Screw–HH |
| 35 | 93–7489 | 1 | Orifice Valve ASM |
| 36 | 99–4248 | 1 | Spacer |
| 37 | 95–2927 | 1 | Fitting–Elbow |
| 37:1 | 237–78 | 2 | O–Ring |
| 38 | 98–4618 | 2 | Bushing–Eccentric |
| 39 | 3256–74 | 2 | Washer–Flat |
| 40 | 33114–016 | 2 | Screw–HH |
| 41 | 99–4072 | 1 | Spacer–Frame, Pull |
| 42 | 99–4111–01 | 1 | Plate–Transport, #1 And #3 |
| 43 | 99–4225 | 1 | Pad–Wear |
| 44 | 325–7 | 1 | Screw–HH |
| 45 | 99–4201 | 2 | Tube–Spacer |
| 46 | 99–4246 | 1 | Link Bracket ASM |
| 46:2 | 99–4243 | 1 | Bushing–Flange |
| 48 | 302–5 | 1 | Fitting–Grease |
| 49 | 3250–17 | 3 | Screw–PPH |
| 50 | 325–14 | 1 | Screw–HH |
| 51 | 3296–54 | 3 | Nut–Lock NI |
| 55 | 325–6 | 2 | Screw–HH |



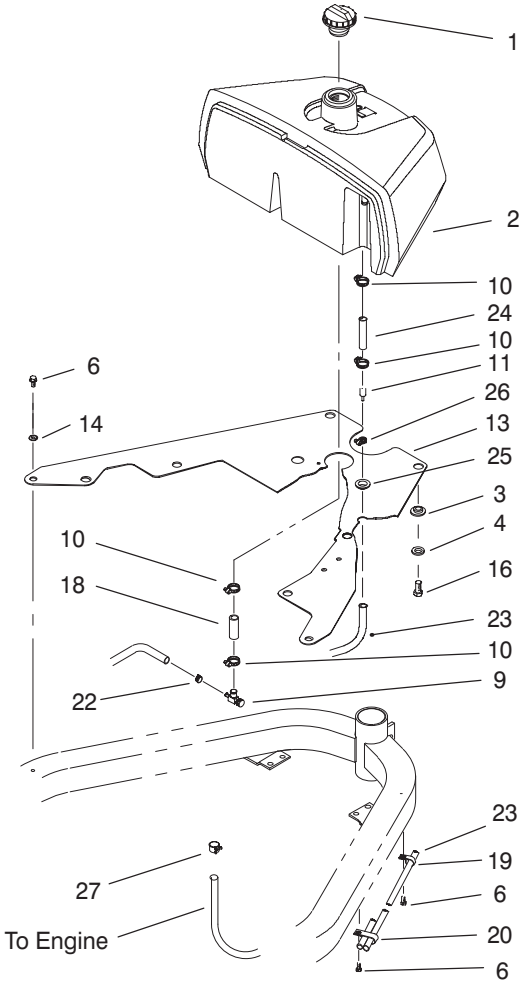

Sheet No.:B3
T–3727

# Hydraulic Cylinder Assembly No. 105–3820

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105–3836 | 1 | Seal Kit |
| ☆1:1 | | 1 | T–Seal |
| ☆1:2 | | 1 | O–Ring |
| ☆1:3 | | 1 | Seal–Rod |
| ☆1:4 | | 1 | O–Ring |
| ☆1:5 | | 1 | Backup |
| ☆1:6 | | 1 | Seal–Dust |

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

☆ Not serviced separately

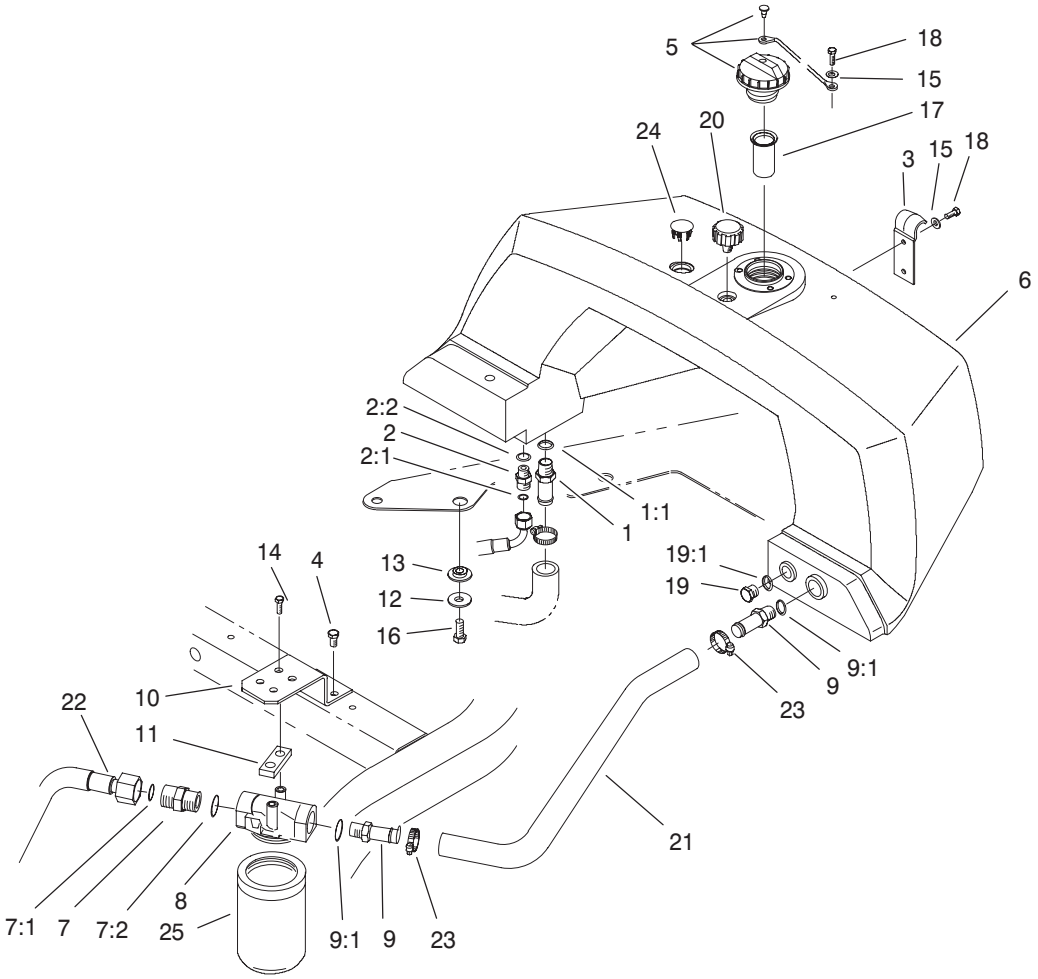



Sheet No.:21

# Fuel System Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 93–3102 | 1 | Cap–Fuel |
| 2 | 93–2225 | 1 | Tank–Fuel |
| 3 | 240–11 | 3 | Grommet–Mount, Tank |
| 4 | 93–4637 | 3 | Washer–Flat |
| 6 | 32144–14 | 5 | Screw–HWH |
| 9 | 56–2520 | 1 | Fitting–Shut Off, Fuel |
| 10 | 2412–36 | 4 | Clamp–Hose |
| 11 | 93–2299 | 1 | Fitting–Fuel |
| 13 | 94–1364–03 | 1 | Plate |
| 14 | 3256–23 | 2 | Washer–Flat |
| 16 | 33115–020 | 3 | Screw–HH |
| 18 | 94–4353 | 1 | Hose–Line, Fuel |
| 19 | 2412–41 | 1 | Clamp |
| 20 | 92–5753 | 1 | Clamp–Hose |
| 22 | 92–2379 | 1 | Clamp–Hose |
| 23 | 93–2298 | 1 | Hose–Fuel |
| 24 | 56–2230 | 1 | Hose–Fuel |
| 25 | 237–124 | 1 | Grommet |
| 26 | 2412–108 | 1 | Clamp–Worm |
| 27 | 94–8189 | 1 | Clamp–Hose |

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

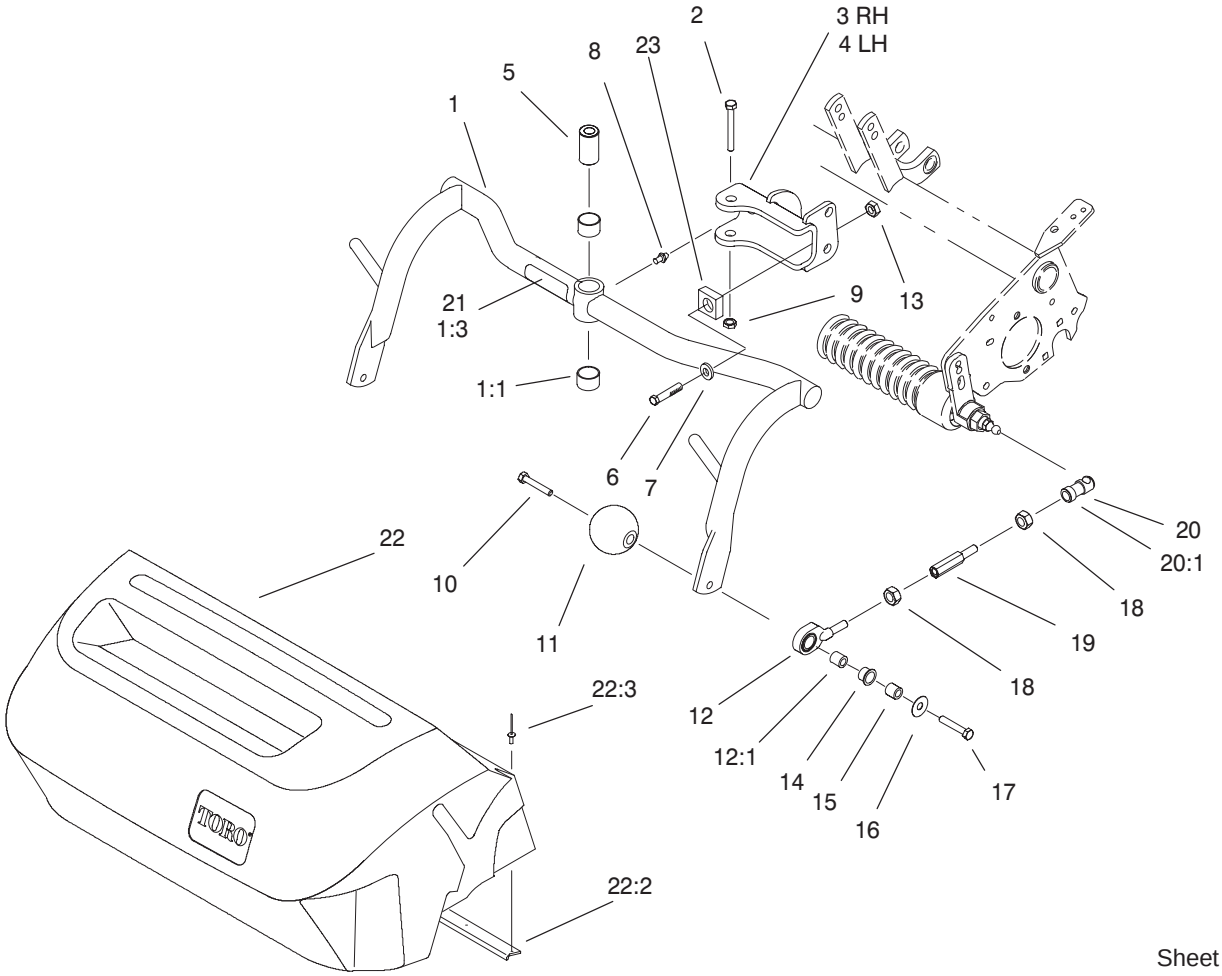



Sheet No.:22

# Hydraulic Tank and Filter Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 354–78 | 1 | Connector–Hose |
| 1:1 | 237–146 | 1 | O–Ring |
| 2 | 340–2 | 1 | Fitting–Straight, HYD |
| 2:1 | 237–22 | 1 | O–Ring |
| 2:2 | 237–42 | 1 | O–Ring |
| 3 | 93–2438 | 1 | Clamp–Tank, Fuel |
| 4 | 32144–14 | 2 | Screw–HWH |
| 5 | 93–7160 | 1 | Cap–Oil, HYD |
| 6 | 93–2235 | 1 | Tank–Hydraulic |
| 7 | 340–9 | 1 | Fitting–Straight |
| 7:1 | 237–58 | 1 | O–Ring |
| 7:2 | 237–81 | 1 | O–Ring |
| 8 | 92–5821 | 1 | Filter Head ASM |
| 9 | 354–73 | 2 | Fitting |
| 9:1 | 237–81 | 1 | O–Ring |
| 10 | 105–9793–03 | 1 | Mount–Oil Filter |
| 11 | 105–4309 | 1 | Plate–Filter |
| 12 | 93–4637 | 4 | Washer–Flat |
| 13 | 240–11 | 4 | Grommet–Mount, Tank |
| 14 | 321–6 | 2 | Screw–HH |
| 15 | 3256–1 | 3 | Washer–Flat |
| 16 | 33115–020 | 4 | Screw–HH |
| 17 | 93–2275 | 1 | Screen–Filler |
| 18 | 33113–016 | 3 | Screw–HH |
| 19 | 353–988 | 1 | Plug–Hex, Hollow |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 19:1 | 237–79 | 1 | O–Ring |
| 20 | 68–6150 | 1 | Breather–Air |
| 21 | 94–9607 | 1 | Hose–Return |
| 22 | 94–4518 | 1 | Tube ASM |
| 23 | 2412–129 | 2 | Clamp–Hose |
| 24 | 93–2437 | 1 | Plug–Serrated |
| 25 | 105–0438 | 1 | Element–Filter |



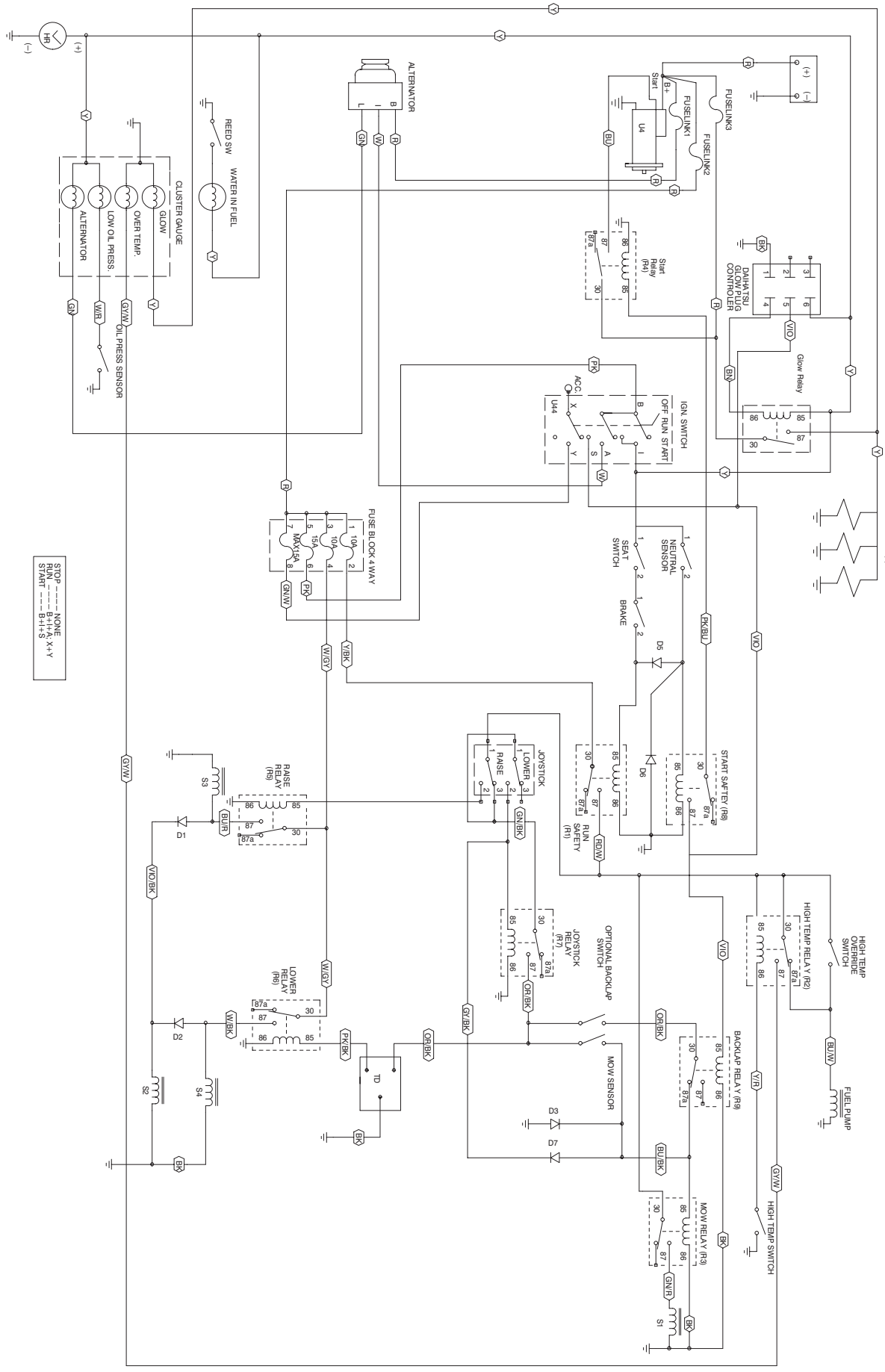

Sheet No.:30

# Center Pull Frame Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 99–4114 | 3 | Pull Frame ASM\ |
| 1:1 | 98–4166 | 2 | Bushing |
| 1:3 | 104–7728 | 1 | Decal–Danger |
| 2 | 325–13 | 3 | Screw–HH |
| 3 | 99–4183–01 | 2 | RH Clevis ASM |
| 4 | 99–4182–01 | 1 | LH Clevis ASM |
| 5 | 99–4109 | 3 | Spacer–Pivot |
| 6 | 78–8710 | 3 | Screw |
| 7 | 3256–77 | 3 | Washer–Flat |
| 8 | 302–5 | 3 | Fitting–Grease |
| 9 | 3296–25 | 3 | Nut–Lock, NI |
| 10 | 99–4209 | 6 | Shaft–Roller |
| 11 | 99–4210 | 6 | Roller–Anti Scalp |
| 12 | 100–6440 | 6 | Pull Link And Bushing ASM |
| 12:1 | 95–0532 | 1 | Rubber Bushing ASM |
| 13 | 3296–12 | 3 | Nut–Lock |
| 14 | 104–7738 | 6 | Bushing–Flange |
| 15 | 75–5270 | 6 | Spacer–Knob, Seat |
| 16 | 80–6990 | 6 | Washer–Hardened |
| 17 | 323–8 | 6 | Screw–HH |
| 18 | 3220–3 | 12 | Nut–Jam |
| 19 | 88–6870 | 6 | Extension–Arm, Pull |
| 20 | 99–1460 | 6 | Ball Joint Receiver ASM |
| 20:1 | 99–1461 | 1 | Sleeve–Joint, Ball |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 21 | 104–7729 | 3 | Decal–Danger (Europe) |
| 22 | 104–2071 | 3 | Basket ASM |
| 22:2 | 104–2607 | 1 | Strip–Basket |
| 22:3 | 3290–382 | 8 | Rivet–Pop |
| 23 | 94–1392 | 3 | Pad–Rubber |

# Electrical Schematic

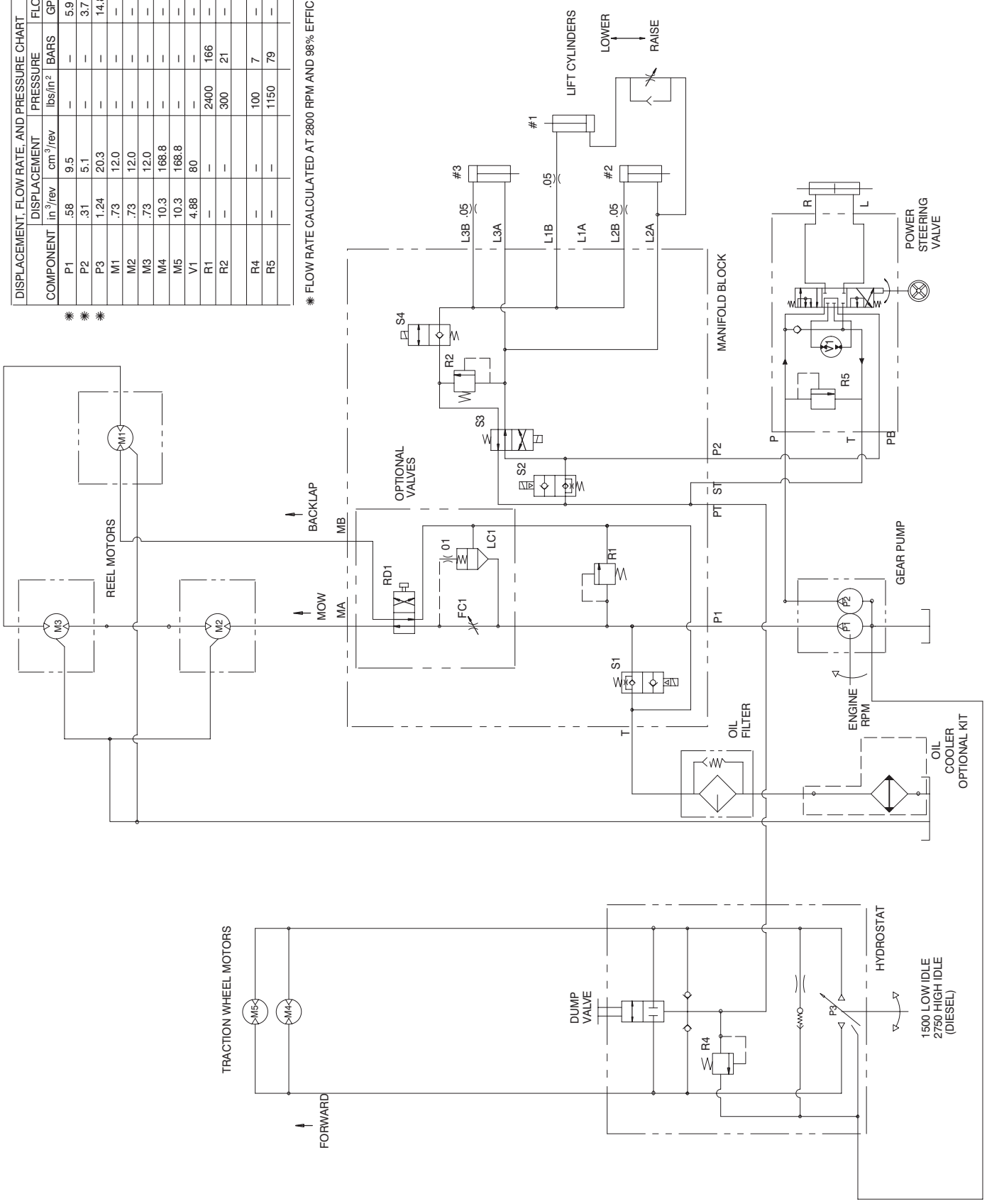


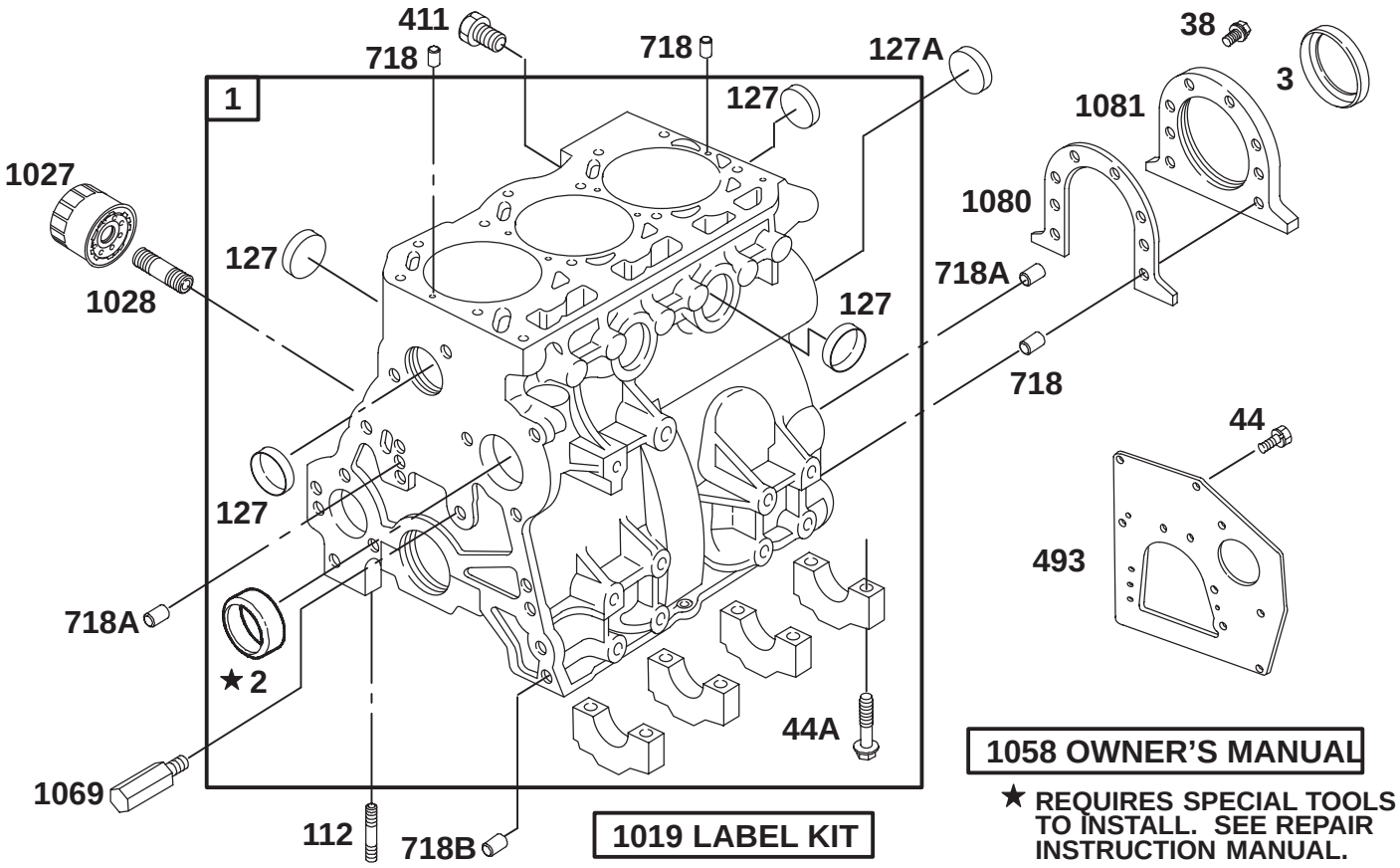
# Hydraulic Schematic

| DISPLACEMENT, FLOW RATE, AND PRESSURE CHART | | | | | | |
|---|---|---|---|---|---|---|
| | DISPLACEMENT | | PRESSURE | | FLOW RATE | |
| COMPONENT | $in^3$/rev | $cm^3$/rev | lbs/$in^2$ | BARS | GPM | LPM |
| P1 | .58 | 9.5 | – | – | 5.9 | 26.1 |
| P2 | .31 | 5.1 | – | – | 3.7 | 13.9 |
| P3 | 1.24 | 20.3 | – | – | 14.8 | 55.8 |
| M1 | .73 | 12.0 | – | – | – | – |
| M2 | .73 | 12.0 | – | – | – | – |
| M3 | .73 | 12.0 | – | – | – | – |
| M4 | 10.3 | 168.8 | – | – | – | – |
| M5 | 10.3 | 168.8 | – | – | – | – |
| V1 | 4.88 | 80 | – | – | – | – |
| R1 | – | – | 2400 | 166 | – | – |
| R2 | – | – | 300 | 21 | – | – |
| R4 | – | – | 100 | 7 | – | – |
| R5 | – | – | 1150 | 79 | – | – |

✷ ✷ ✷

✷ FLOW RATE CALCULATED AT 2800 RPM AND 98% EFFICIENCY



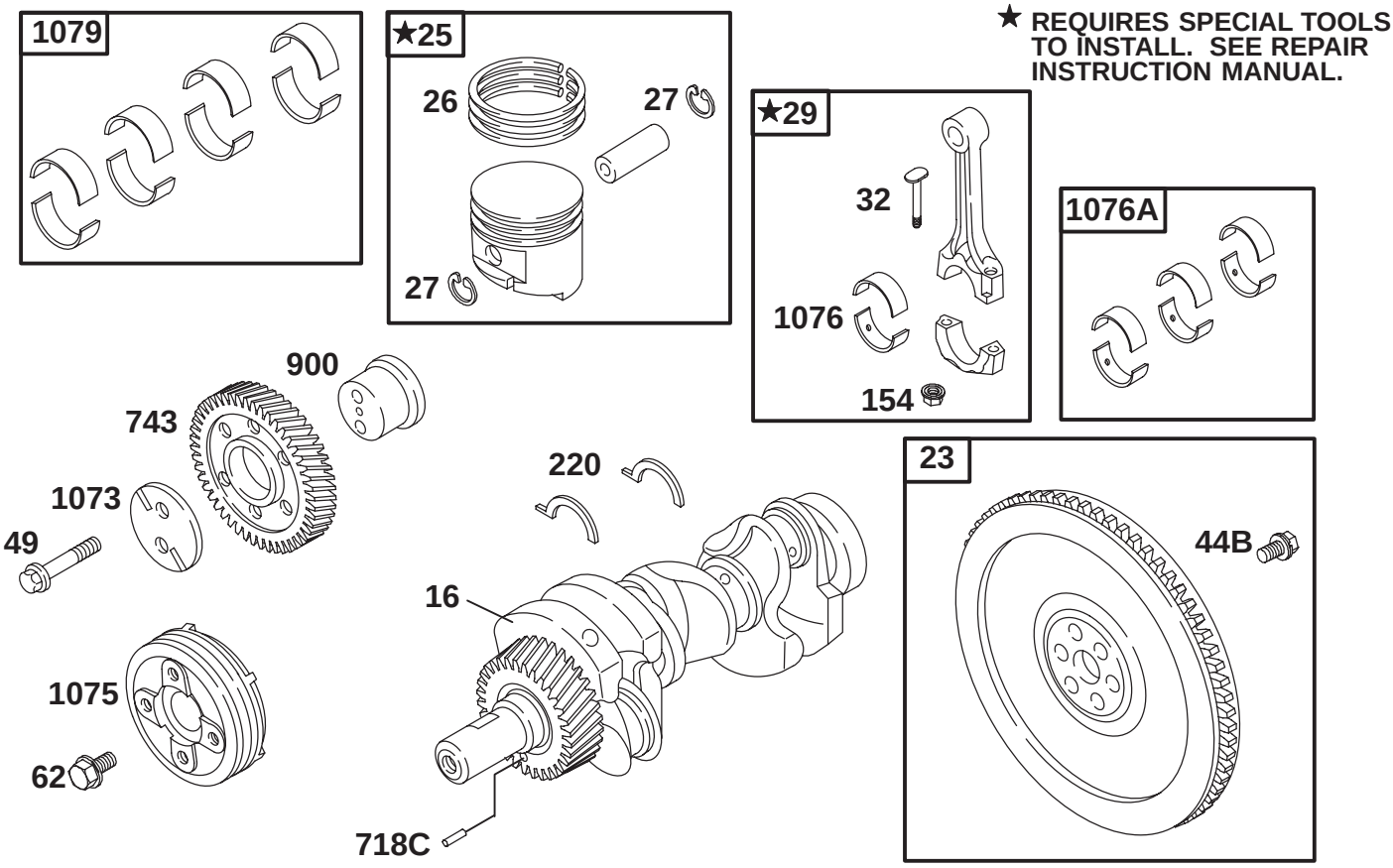



Sheet No.:3

# Cylinder Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 01 | 100–6401 | 1 | Cylinder ASM |
| 02 | 99–9002 | 1 | Bushing |
| 03 | 99–9003 | 1 | Seal–Oil |
| 1019 | 99–9015 | 1 | Label Kit |
| 1058 | 99–9602 | 1 | Manual–Owner's |
| 1069 | 99–9020 | 1 | Nozzle–Oil |
| 1080 | 99–9021 | 1 | Gasket–Retainer |
| 1081 | 99–9022 | 1 | Retainer–Seal |
| 112 | 99–9007 | 1 | Stud–Metric |
| 127 | 99–9008 | 7 | Plug–Welch |
| 127 | 99–9017 | 1 | Filter–Oil |
| 127A | 99–9010 | 1 | Plug–Welch |
| 128 | 99–9018 | 1 | Adapter–Filter, Oil |
| 38 | 99–9004 | 6 | Screw–Hex |
| 411 | 99–9601 | 1 | Plug (Cylinder Block) |
| 44 | 99–9005 | 3 | Screw–Hex |
| 44A | 99–9006 | 8 | Screw–Hex |
| 493 | 100–3195 | 1 | Bracket–Mounting |
| 718 | 99–9012 | 4 | Pin–Locating |
| 718A | 99–9013 | 3 | Pin–Locating |
| 718B | 99–9014 | 2 | Pin–Locating |

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



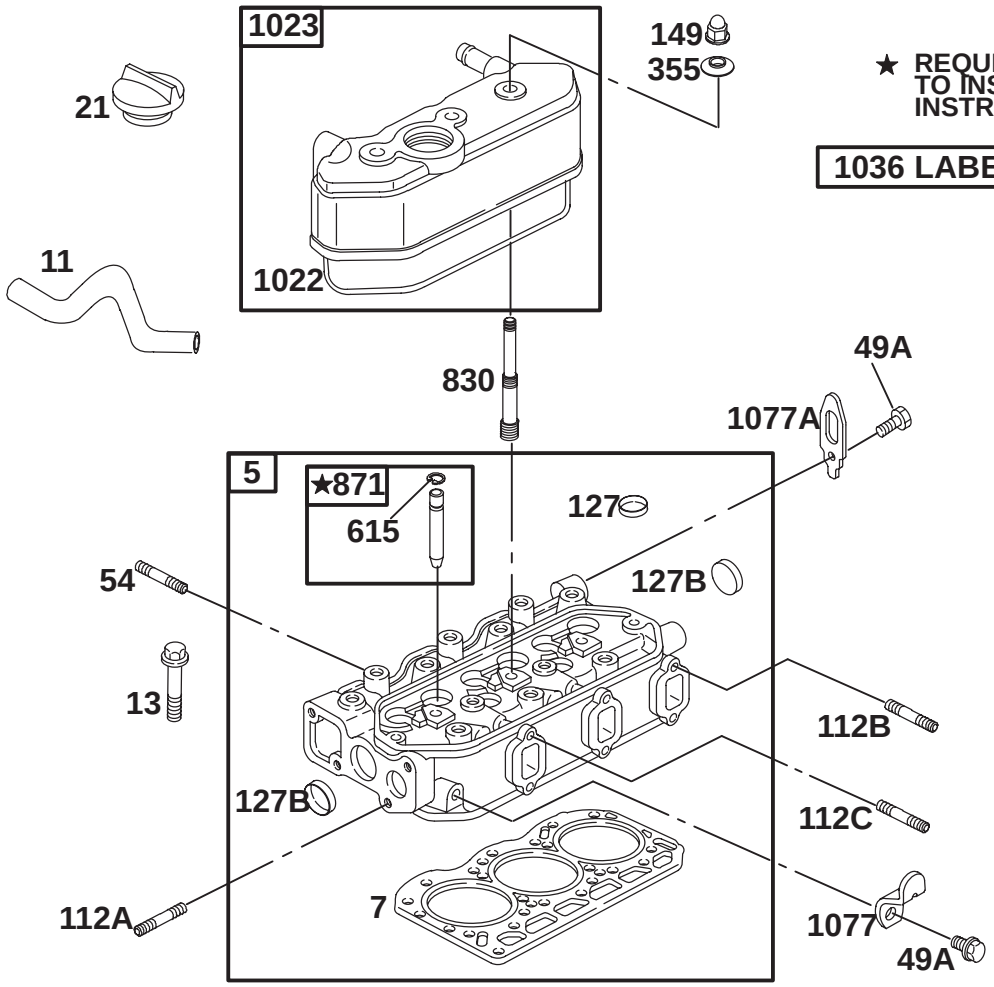

★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

Sheet No.:4

# Crankshaft Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1073 | 99–9040 | 1 | Plate–Gear, Idler |
| 1075 | 99–9692 | 1 | Pully–Crankshaft |
| 1076 | 99–9042 | 1 | Bearing–Rod |
| 1076A | 99–9044 | 3 | Rod Bearing Set (.010 Undersize) |
| 1076A | 99–9043 | 3 | Rod Bearing Set |
| 1079 | 99–9045 | 1 | Bearing Set (Main) |
| 1079 | 99–9046 | 1 | Bearing Set (.010 Undersize) |
| 154 | 99–9034 | 6 | Nut–Hex |
| 16 | 99–9252 | 1 | Crankshaft |
| 220 | 99–9036 | 1 | Washer–Thrust |
| 220 | 99–9035 | 1 | Washer–Thrust |
| 23 | 99–9267 | 1 | Flywheel |
| 25 | 99–9268 | 3 | Piston ASM |
| 25 | 99–9605 | 3 | Piston ASM |
| 26 | 99–9269 | 3 | Ring Set |
| 26 | 99–9606 | 3 | Ring Set |
| 27 | 99–9607 | 6 | Lock–Pin, Piston |
| 29 | 99–9608 | 3 | Rod–Connecting |
| 32 | 99–9030 | 6 | Screw–Rod, Connecting |
| 44B | 99–9031 | 6 | Screw–Hex |
| 49 | 99–9032 | 2 | Screw–Hex |
| 62 | 99–9033 | 1 | Screw–Hex |
| 718C | 99–9037 | 1 | Pin–Locating |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 743 | 99–9609 | 1 | Gear–Drive |
| 900 | 99–9039 | 1 | Shaft–Gear |




★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

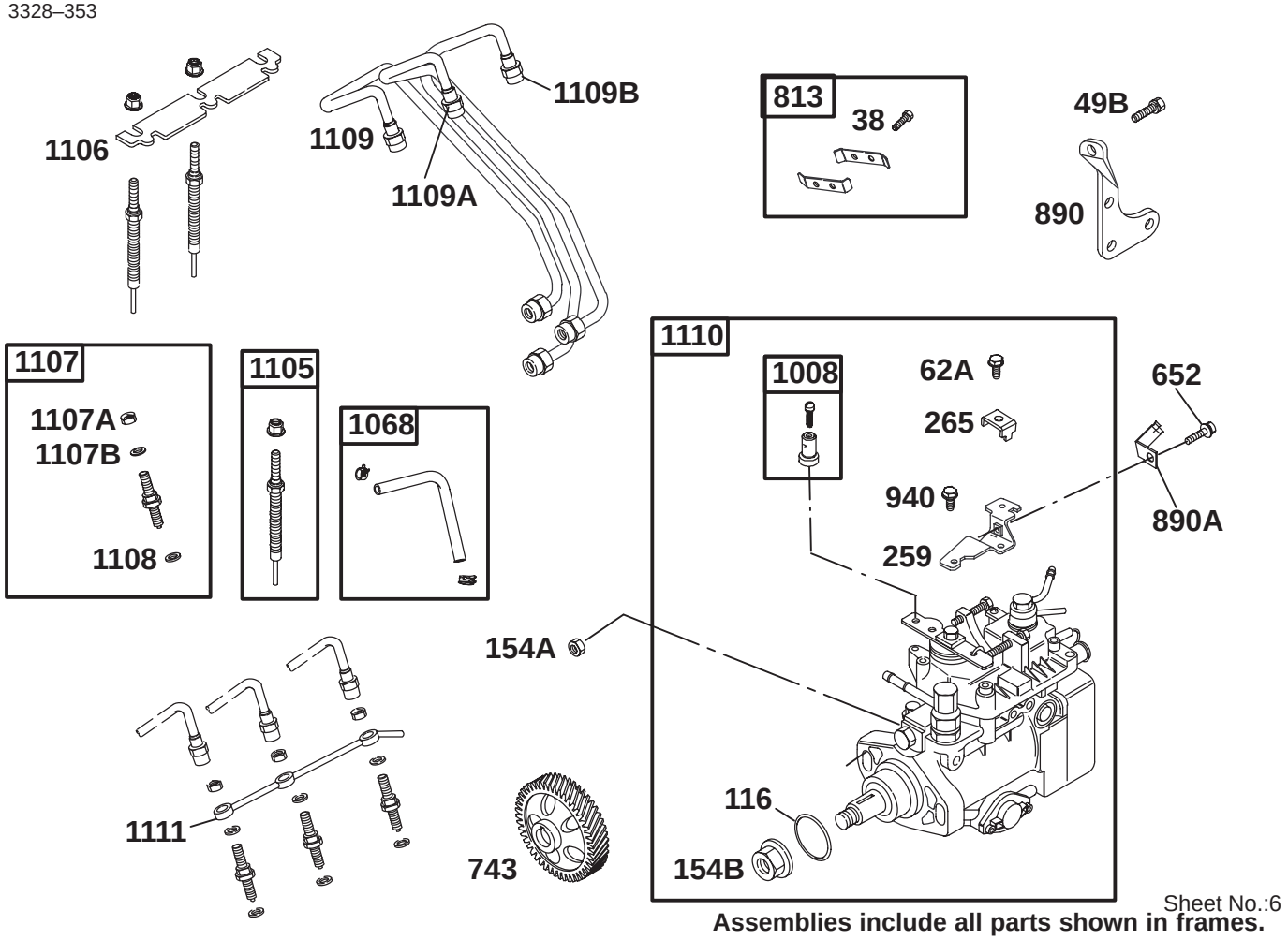
**1036 LABEL KIT–EMISSION**

Sheet No.:5

# Cylinder Head Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 05 | 99–9611 | 1 | Head–Cylinder |
| 07 | 99–9612 | 1 | Gasket–Head, Cylinder |
| 1022 | 99–9073 | 1 | Gasket–Cover, Rocker |
| 1023 | 100–6402 | 1 | Cover–Rocker |
| 1036 | 99–9615 | 1 | Emission Label Kit |
| 1077 | 99–9076 | 1 | Bracket–Lifting |
| 1077A | 99–9077 | 1 | Bracket–Lifting |
| 11 | 104–7743 | 1 | Tube–Breather |
| 112A | 99–9057 | 2 | Stud–Metric |
| 112C | 99–9059 | 1 | Stud–Metric |
| 117B | 99–9058 | 5 | Stud–Metric |
| 127 | 99–9008 | 2 | Plug–Welch |
| 127B | 99–9060 | 2 | Plug–Welch |
| 13 | 99–9614 | 14 | Screw–Metric |
| 149 | 99–9061 | 3 | Nut–Hex, Metric |
| 21 | 99–9052 | 1 | Cap–Fill, Oil |
| 355 | 99–9063 | 3 | Washer–Seal |
| 49A | 99–9054 | 2 | Screw–Hex |
| 54 | 99–9055 | 2 | Stud–Metric |
| 615 | 99–9067 | 6 | Retainer |
| 830 | 99–9101 | 3 | Stud–Arm, Rocker |
| 871 | 99–9070 | 6 | Bushing–Guide |

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



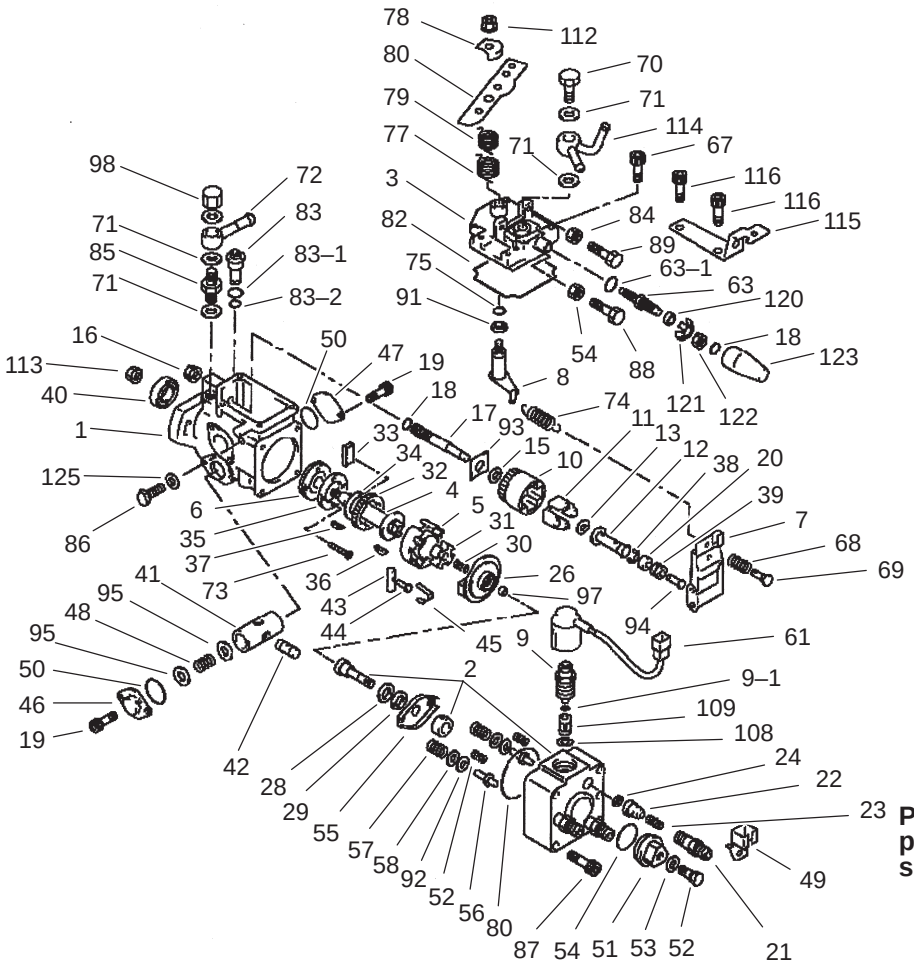

Sheet No.:6

**Assemblies include all parts shown in frames.**

# Injection Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1008 | 99–9628 | 1 | Clamp–Swivel |
| 1068 | 99–9629 | 1 | Hose/Clamp ASM |
| 1105 | 99–9630 | 3 | Plug–Glow |
| 1106 | 99–9631 | 1 | Strap–Plug, Glow |
| 1107 | 105–9789 | 3 | Injection Nozzle |
| 1108 | 99–9633 | 3 | Seat–Injector |
| 1109 | 99–9690 | 1 | Pipe–Injector, #1 |
| 1109A | 99–9634 | 1 | Pipe–Injector, #2 |
| 1109B | 99–9635 | 1 | Pipe–Injector, #3 |
| 1110 | 106–6364 | 1 | Pump–Injection |
| 1111 | 99–9637 | 1 | Pipe–Return, Fuel |
| 116 | 99–9618 | 1 | O–Ring |
| 154A | 99–9619 | 2 | Nut–Hex, Metric |
| 154B | 99–9620 | 1 | Nut–Hex, Metric |
| 259 | 99–9621 | 1 | Bracket–Clamp, Casing |
| 265 | 99–9622 | 1 | Clamp–Casing |
| 38 | 99–9004 | 2 | Screw–Hex |
| 498 | 99–9616 | 4 | Screw–Hex |
| 62A | 100–6403 | 1 | Screw–Metric |
| 743 | 99–9624 | 1 | Gear–Drive |
| 813 | 99–9625 | 1 | Clamp |
| 890 | 99–9626 | 1 | Bracket–Support |
| 940 | 100–6410 | 2 | Screw–Hex |

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



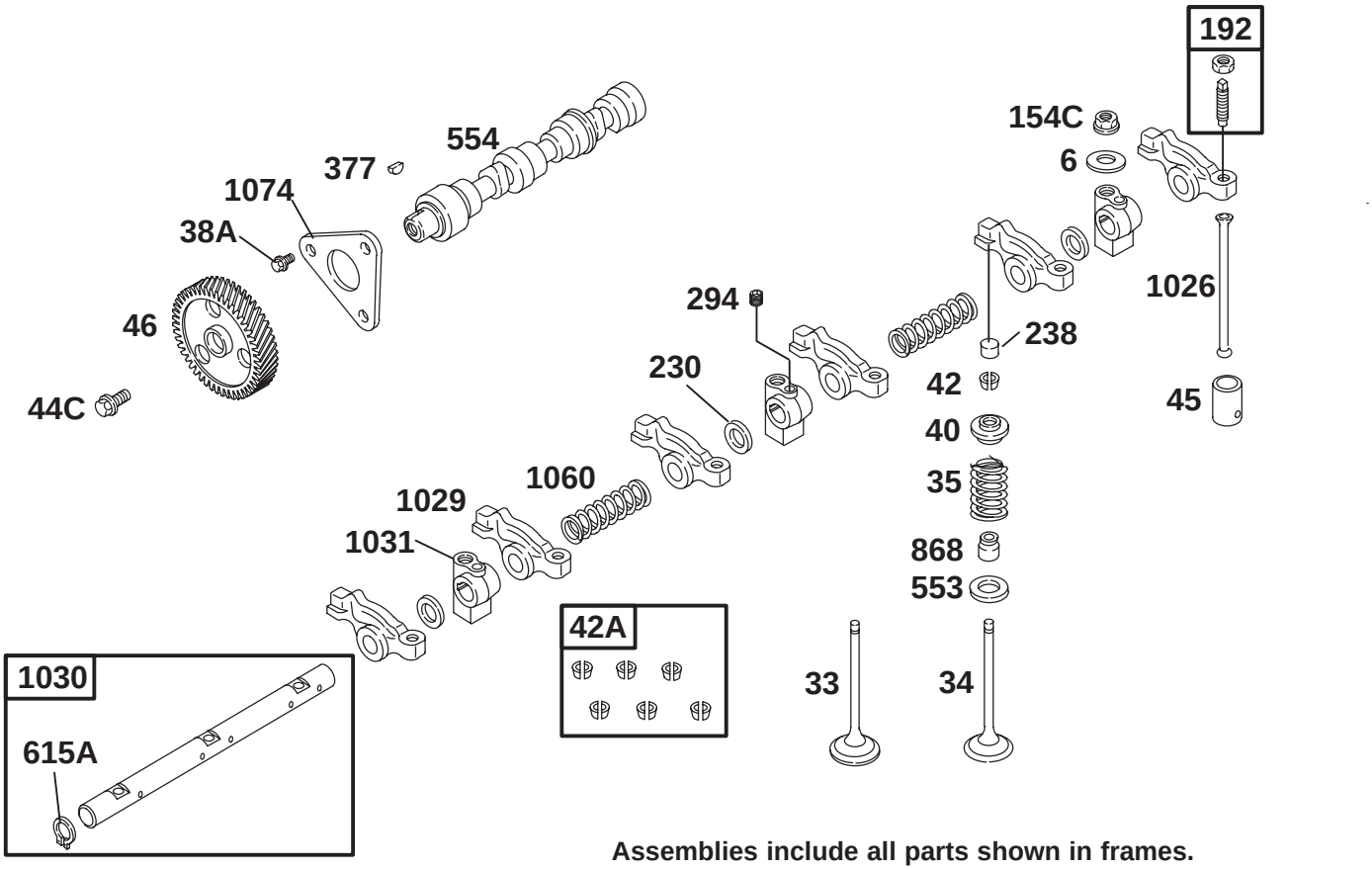

**Parts not listed in part list are not serviced separately**

Sheet No.:A1

# Injection Assembly No. 106–6364

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 108 | 100–5303 | 1 | Filter, Sub–ASM |
| 109 | 100–5304 | 1 | Washer |
| 114 | 100–5307 | 1 | Nipple Sub–ASM,S |
| 125 | 100–5314 | 2 | Gasket, Delivery V |
| 40 | 100–5190 | 1 | Seal, Oil |
| 50 | 100–5202 | 2 | O–Ring |
| 53 | 100–5205 | 1 | Gasket, Delivery V |
| 54 | 100–5206 | 1 | O–Ring |
| 61 | 100–5212 | 1 | Wire, Sub ASM |
| 70 | 100–5220 | 1 | Screw, Sub–ASM, Ov |
| 71 | 100–5221 | 5 | Washer, Air Bleede |
| 72 | 100–5222 | 1 | Nipple Sub–ASM, S |
| 77 | 100–5226 | 1 | Spring Return |
| 79 | 100–5228 | 1 | Spring Return |
| 83 | 100–5230 | 1 | Valve Sub–ASM, Re |
| 85 | 100–5234 | 1 | Screw, Hollow |
| 9 | 100–5161 | 1 | Solenoid ASM, Fule |
| 9–1 | 100–5162 | 1 | O–Ring |
| 98 | 100–5302 | 1 | Nut, Cap |

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



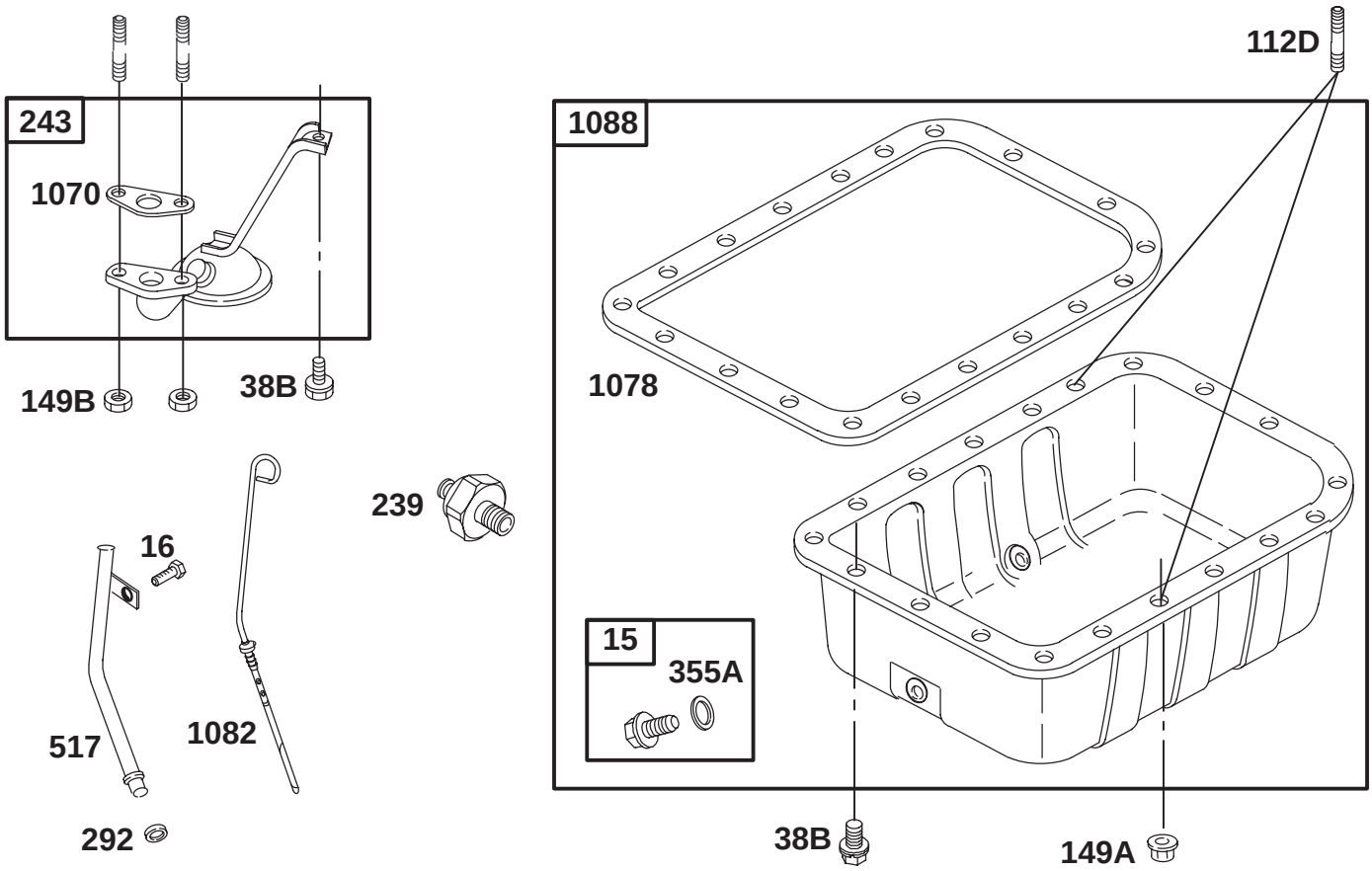

**Assemblies include all parts shown in frames.**

Sheet No.:7

# Rocker Arm Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 06 | 99–9079 | 3 | Washer–Flat |
| 1026 | 99–9103 | 6 | Rod–Push |
| 1029 | 99–9104 | 1 | Arm–Rocker |
| 1030 | 99–9106 | 1 | Shaft–Arm, Rocker |
| 1031 | 99–9107 | 3 | Support–Arm, Rocker |
| 1060 | 99–9108 | 2 | Spring–Shaft, Rocker |
| 1074 | 99–9109 | 1 | Retainer–Camshaft |
| 154C | 99–9091 | 3 | Nut–Hex, Metric |
| 192 | 99–9092 | 6 | Adjuster–Arm, Rocker |
| 230 | 99–9093 | 3 | Washer–Spacer |
| 238 | 99–9094 | 6 | Cap–Valve |
| 294 | 99–9090 | 1 | Screw–Metric |
| 33 | 99–9638 | 3 | Valve–Exhaust |
| 34 | 99–9639 | 3 | Valve–Intake |
| 35 | 99–9640 | 6 | Spring–Valve |
| 377 | 99–9642 | 1 | Key–Timing |
| 38A | 99–9083 | 3 | Screw–Hex |
| 40 | 99–9084 | 6 | Retainer–Valve |
| 42 | 99–9086 | 1 | Keeper–Valve |
| 42A | 99–9087 | 6 | Keeper–Valve (Set Of Six) |
| 44C | 99–9085 | 1 | Screw–Metric |
| 45 | 99–9088 | 6 | Tappet–Valve |
| 46 | 99–9641 | 1 | Gear–Cam |
| 553 | 99–9096 | 6 | Seat–Spring, Valve |
| 554 | 99–9097 | 1 | Shaft–Cam |

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 615A | 99–9099 | 2 | Retainer |
| 868 | 99–9643 | 6 | Seal–Valve |

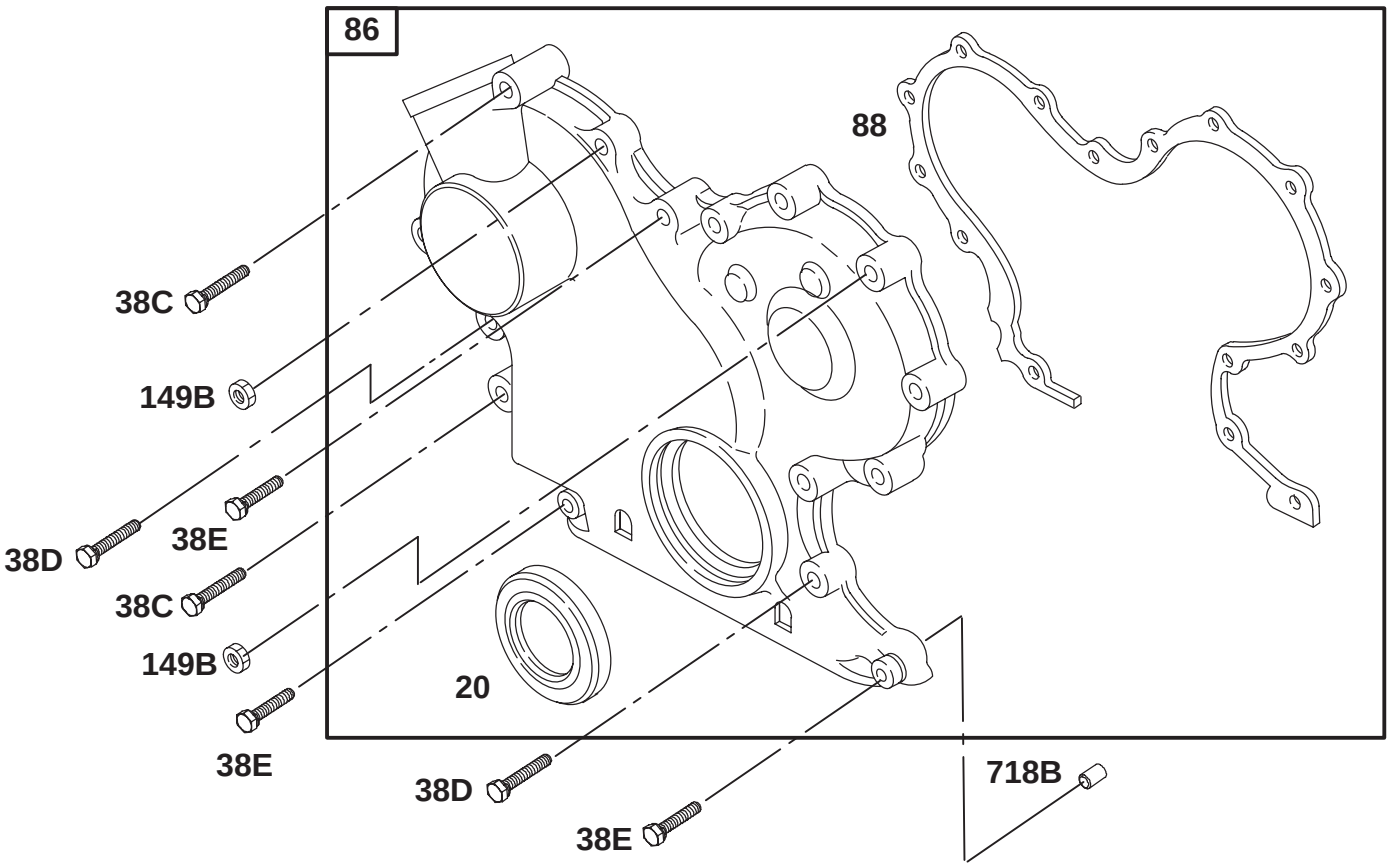



Sheet No.:8

# Oil Pan Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1070 | 99–9120 | 1 | Gasket–Strainer, Oil |
| 1078 | 99–9121 | 1 | Gasket–Pan, Oil |
| 1082 | 100–6405 | 1 | Dipstick |
| 1088 | 99–9649 | 1 | Pan–Oil |
| 112D | 99–9112 | 2 | Stud–Metric |
| 149A | 99–9113 | 2 | Nut–Hex, Metric |
| 149B | 99–9114 | 2 | Nut–Hex, Metric |
| 15 | 99–9644 | 1 | Plug–Drain, Oil |
| 16 | 99–9256 | 1 | Screw–HH |
| 239 | 99–9115 | 1 | Switch–Pressure, Oil |
| 243 | 99–9116 | 1 | Screen–Pump, Oil |
| 292 | 99–9265 | 1 | O–Ring (Dipstick) |
| 355A | 99–9645 | 1 | Washer–Seal |
| 38B | 99–9111 | 18 | Screw–Hex |
| 517 | 100–6406 | 1 | Tube–Dipstick |

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

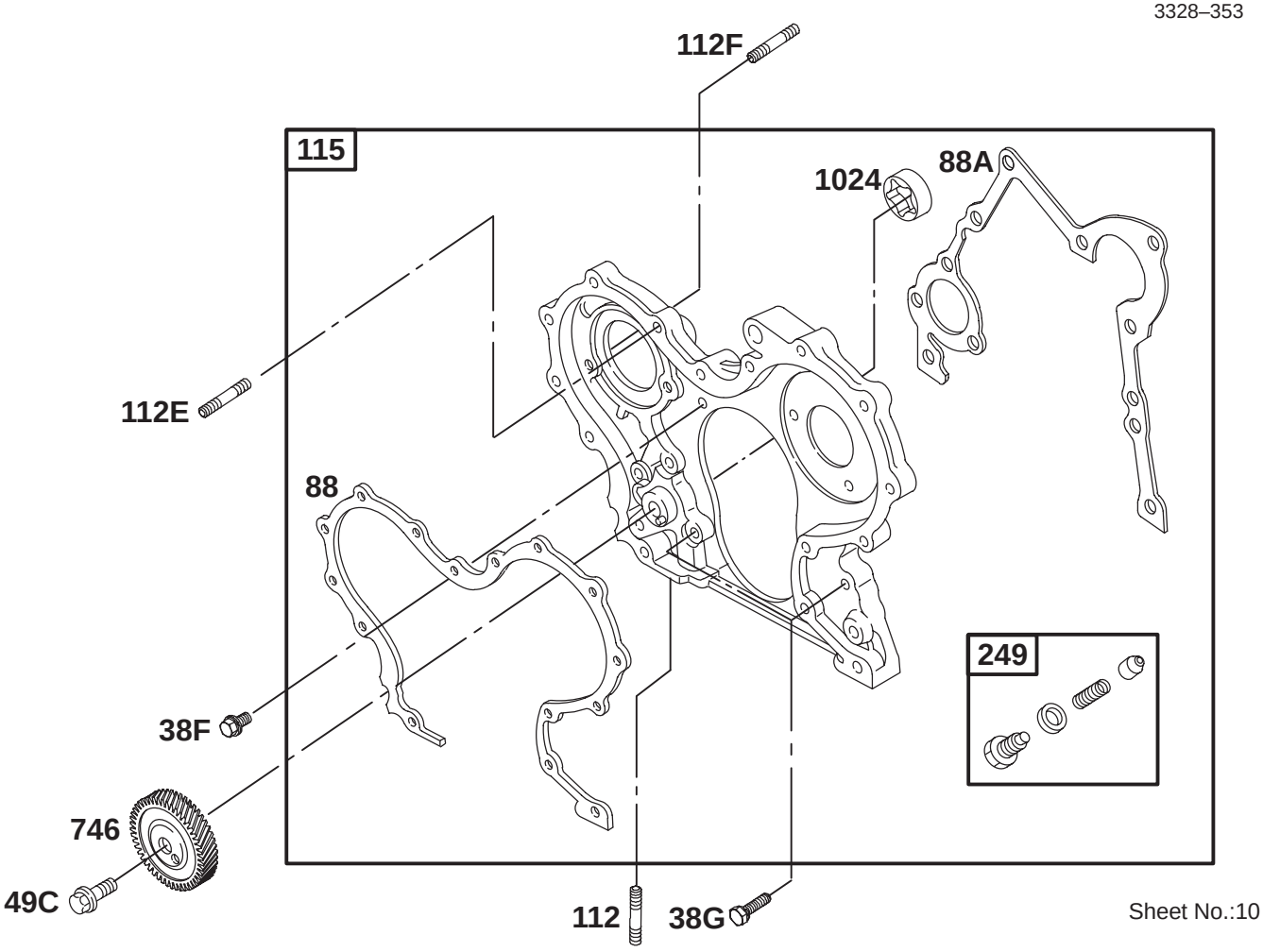



Sheet No.:9

# Cover Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 149B | 99–9114 | 2 | Nut–Hex, Metric |
| 20 | 99–9126 | 1 | Seal–Oil |
| 38C | 99–9651 | 2 | Screw–Hex |
| 38D | 99–9128 | 9 | Screw–Hex |
| 38E | 99–9129 | 3 | Screw–Hex |
| 718B | 99–9014 | 1 | Pin–Locating |
| 86 | 99–9652 | 1 | Gear Cover ASM |
| 88 | 99–9653 | 1 | Gasket–Cover, Gear |

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

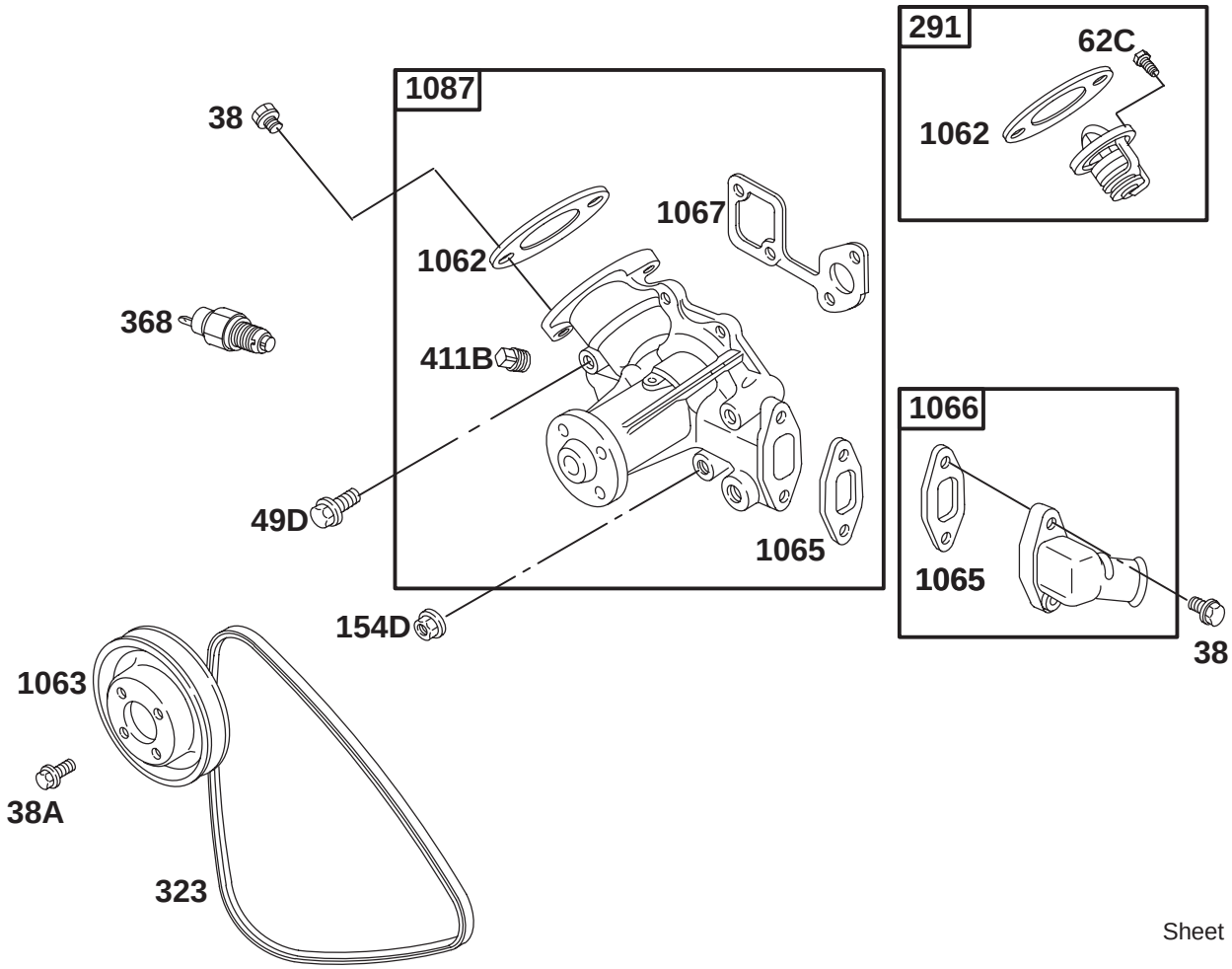



Sheet No.:10

# Gear Housing Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 112 | 99–9007 | 1 | Stud–Metric |
| 112E | 99–9137 | 2 | Stud–Metric |
| 112F | 99–9654 | 2 | Stud–Metric |
| 115 | 99–9655 | 1 | Housing–Gear |
| 249 | 99–9142 | 1 | Valve–Relief, Oil |
| 38F | 99–9134 | 1 | Screw–Hex |
| 38G | 99–9133 | 4 | Screw–Hex |
| 49C | 99–9135 | 1 | Screw–Hex |
| 746 | 99–9656 | 1 | Gear–Drive |
| 88 | 99–9653 | 1 | Gasket–Cover, Gear |
| 88A | 99–9136 | 1 | Gasket–Cover, Gear |

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

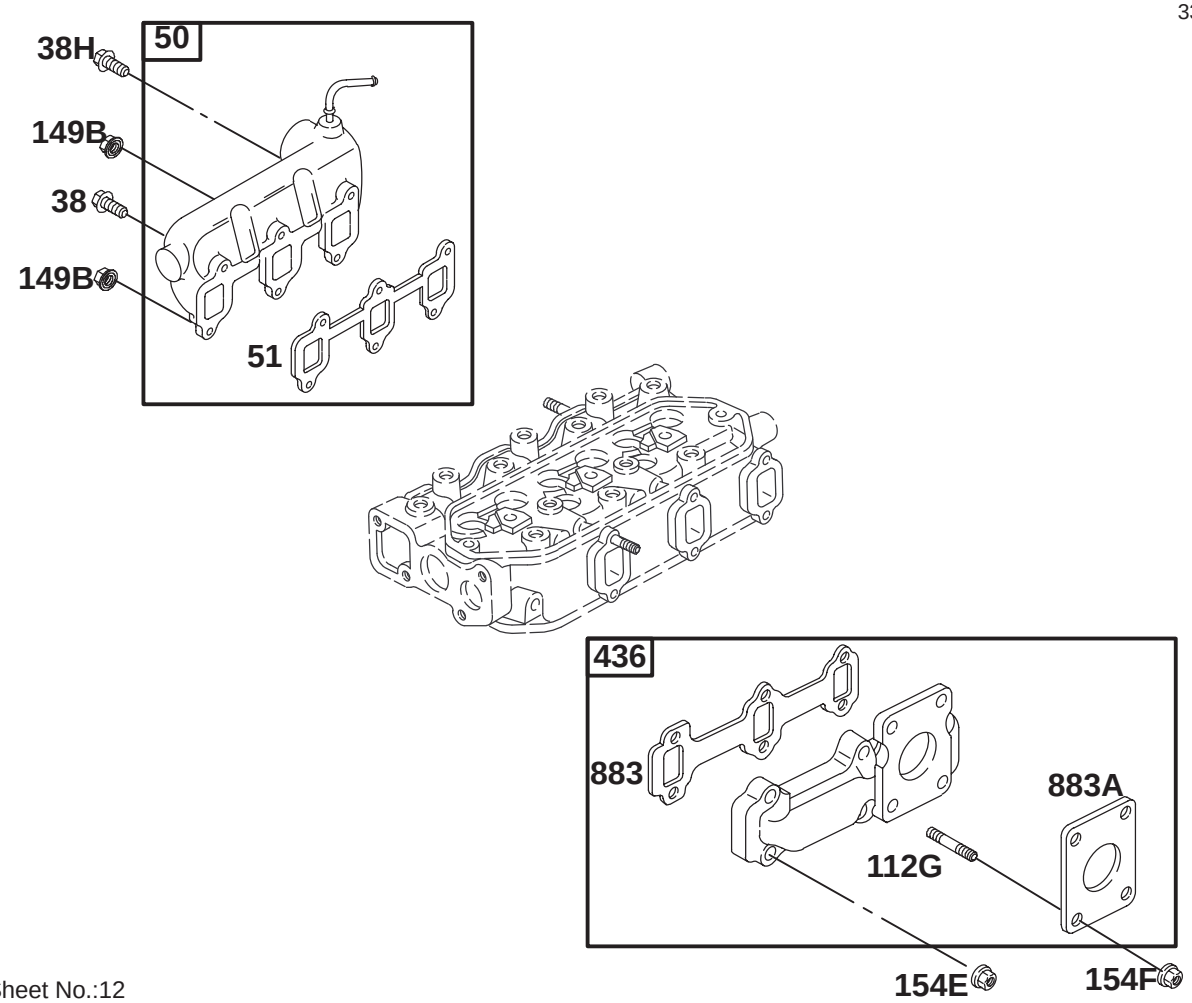



Sheet No.:11

# Water Pump Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1062 | 99–9163 | 1 | Gasket–Outlet |
| 1063 | 99–9164 | 1 | Pulley–Pump |
| 1065 | 99–9166 | 1 | Gasket–Housing, Inlet |
| 1066 | 99–9167 | 1 | Housing–Inlet |
| 1067 | 99–9168 | 1 | Gasket–Pump, Water |
| 1087 | 105–3832 | 1 | Pump–Water |
| 154D | 99–9153 | 1 | Nut–Hex, Metric |
| 291 | 99–9155 | 1 | Thermostat |
| 323 | 99–8153 | 1 | Belt–V |
| 368 | 99–9157 | 1 | Switch–Temp., Water |
| 38 | 99–9004 | 2 | Screw–Hex |
| 38A | 99–9111 | 4 | Screw–Hex |
| 411B | 99–9159 | 1 | Plug |
| 49D | 99–9151 | 2 | Screw–Hex |
| 62C | 99–9152 | 1 | Screw–Metric |
| 839 | 93–2090 | 1 | Fan–Engine |

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

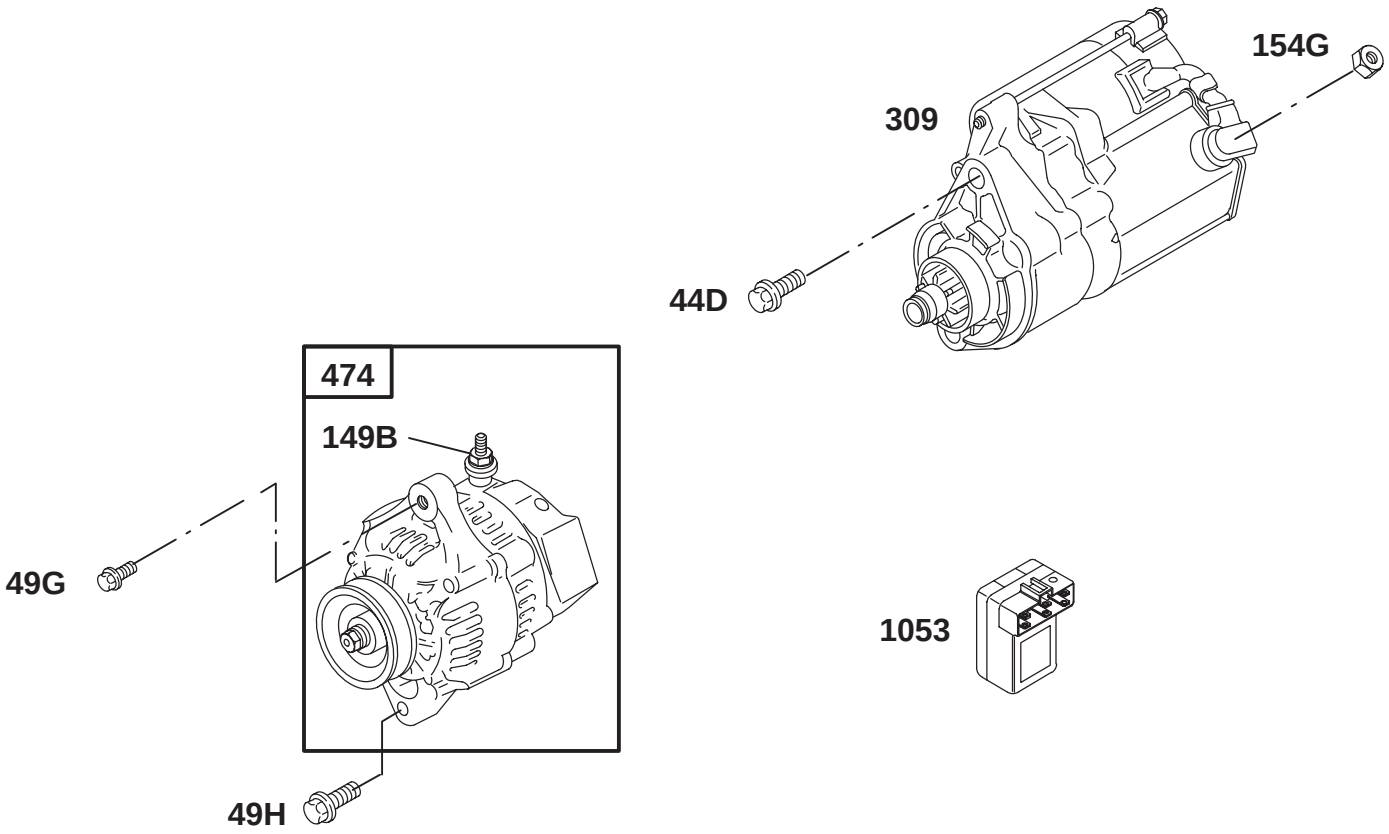



Sheet No.:12

# Manifold Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 112G | 100–6407 | 4 | Stud–Manifold, Exhaust |
| 149B | 99–9114 | 2 | Nut–Hex, Metric |
| 154E | 99–9175 | 6 | Nut–Hex, Metric |
| 154F | 99–9176 | 4 | Nut–Hex |
| 38 | 99–9004 | 1 | Screw–Hex |
| 38H | 99–9660 | 3 | Screw–Hex |
| 436 | 99–9177 | 1 | Manifold–Exhaust |
| 50 | 99–9661 | 1 | Manifold–Intake |
| 51 | 99–9662 | 1 | Gasket–Intake |
| 883 | 99–9178 | 1 | Gasket–Exhaust |
| 883A | 99–9179 | 1 | Gasket–Exhaust |

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

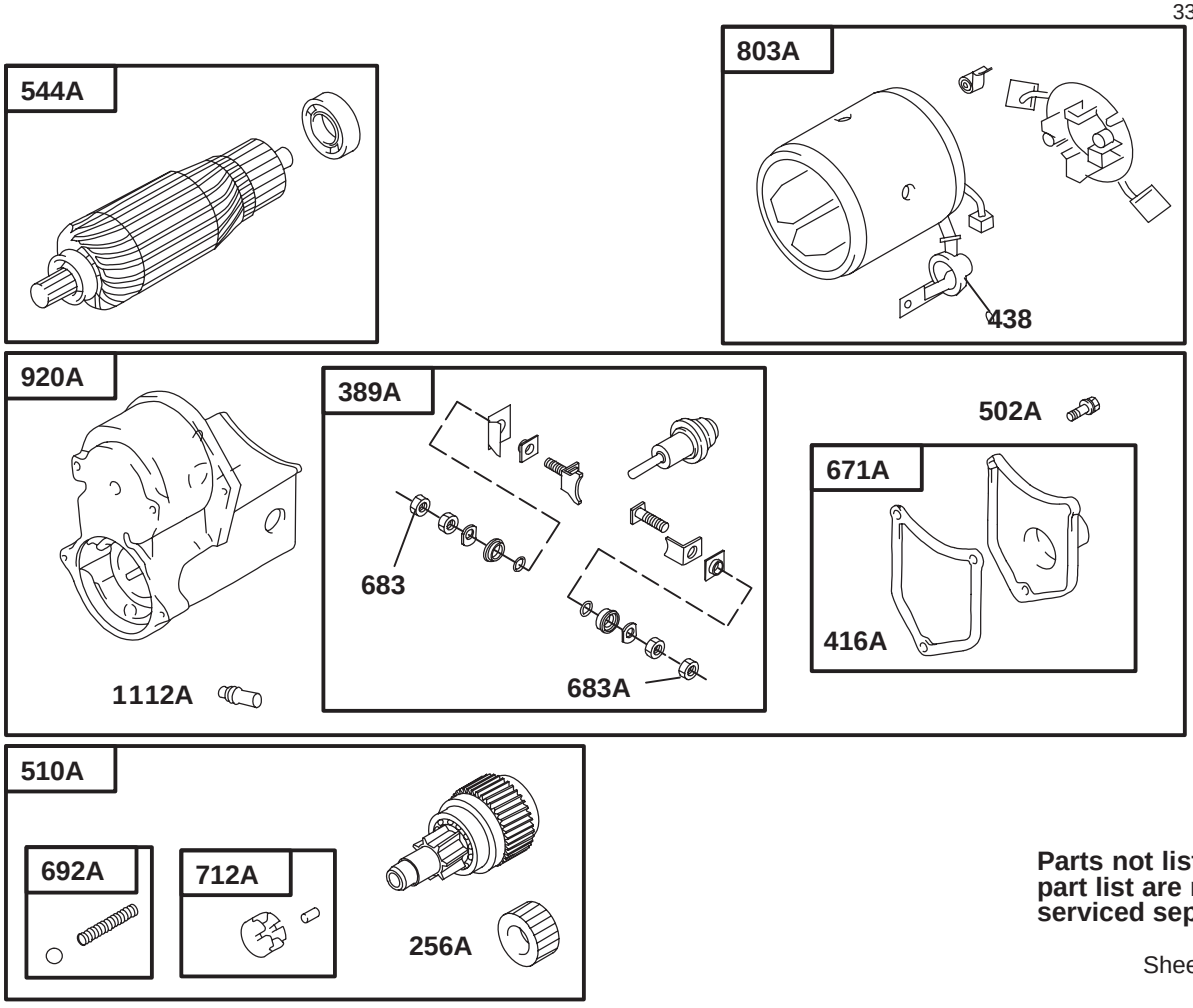



Sheet No.:13

# Alternator Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1053 | 99–9666 | 1 | Module |
| 149B | 99–9114 | 1 | Nut–Hex, Metric |
| 154G | 99–9206 | 1 | Nut–Hex, Metric |
| 309 | 104–7716 | 1 | Motor–Starter |
| 44D | 99–9201 | 2 | Screw–Hex |
| 474 | 99–9209 | 1 | Alternator |

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



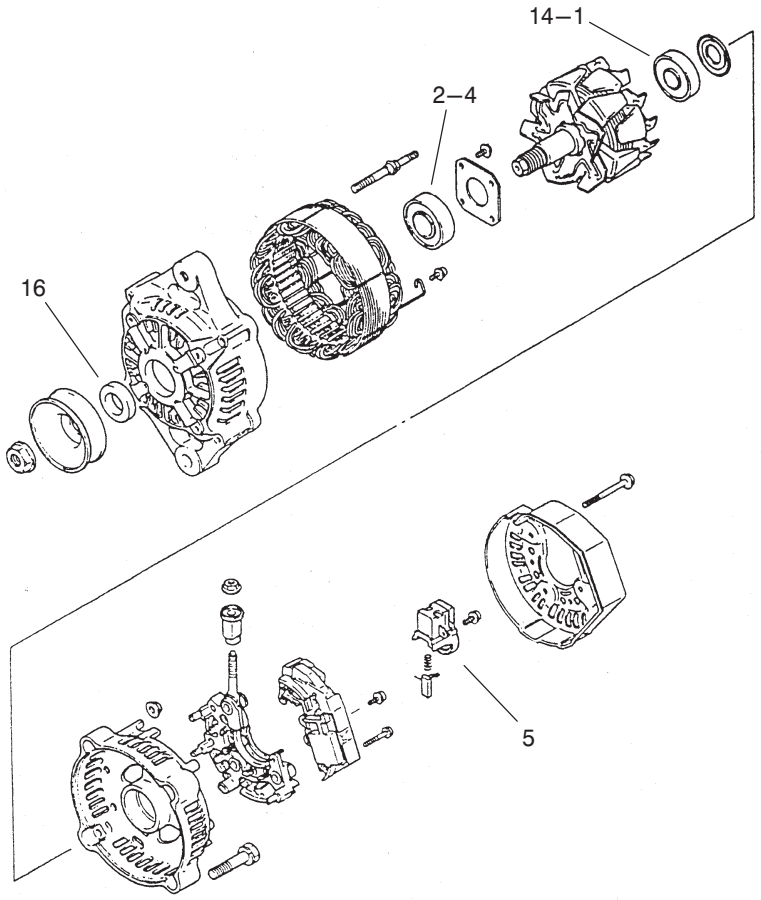

**Parts not listed in part list are not serviced separately**

Sheet No.:A2

# Starter Motor Assembly No. 104–7716

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 389A | 105–8636 | 1 | Plunger/Terminal Kit |
| 510A | 105–8637 | 1 | Starter Drive |
| 544A | 105–8638 | 1 | Starter Armature |
| 803A | 105–8639 | 1 | Starter Housing |
| 920A | 105–8640 | 1 | Starter Solenoid |

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




**Parts not listed in part list are not serviced separately**

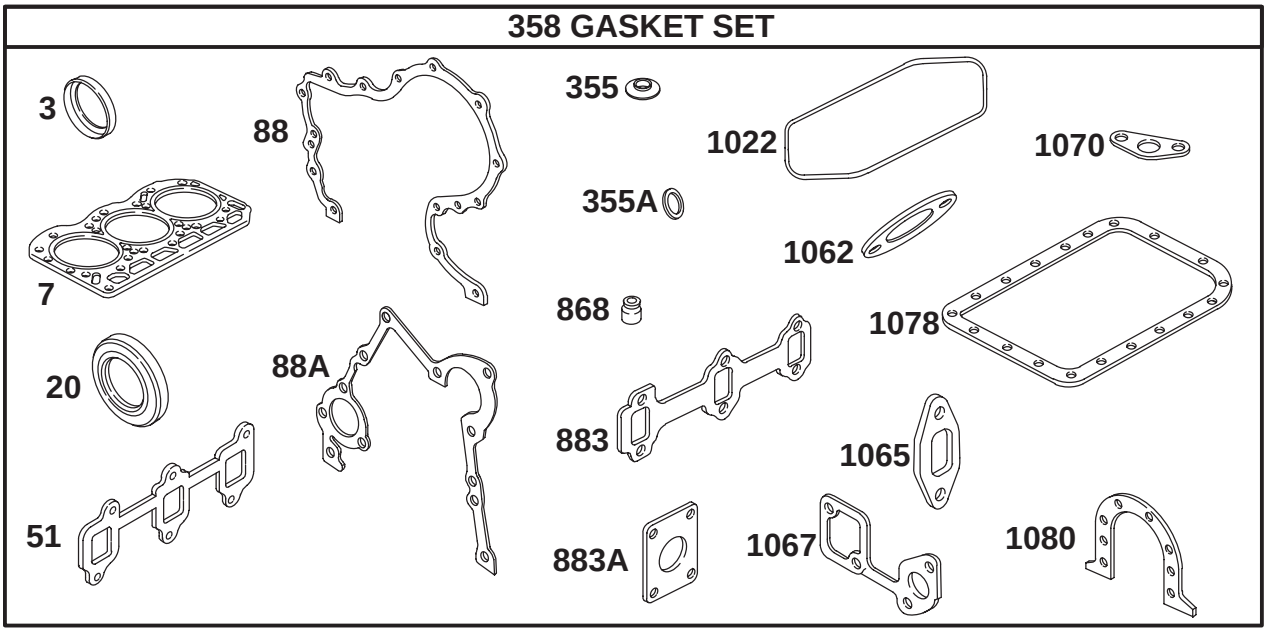
T–3540

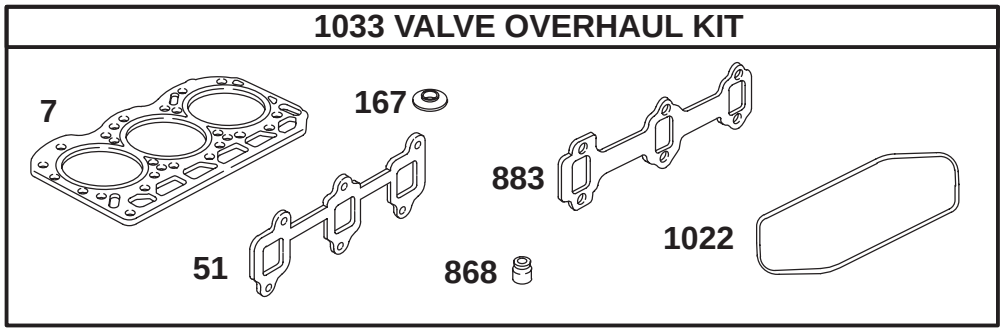
Sheet No.:A3

# Alternator Assembly No.

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 14–1 | 100–5317 | 1 | Bearing |
| 16 | 100–5315 | 1 | Collar |
| 2–4 | 100–5316 | 1 | Bearing |
| 5 | 100–5318 | 1 | Brush Holder ASM |

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




Sheet No.:14

# Gasket and Valve Overhaul Kit Assembly

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 03 | 99–9003 | 1 | Seal–Oil |
| 07 | 99–9612 | 1 | Gasket–Head, Cylinder |
| 1022 | 99–9073 | 1 | Gasket–Cover, Rocker |
| 1033 | 99–9668 | 1 | Valve Overhaul Kit |
| 1062 | 99–9163 | 1 | Gasket–Outlet |
| 1065 | 99–9166 | 1 | Gasket–Housing, Inlet |
| 1067 | 99–9168 | 1 | Gasket–Pump, Water |
| 1070 | 99–9120 | 1 | Gasket–Strainer, Oil |
| 1078 | 99–9121 | 1 | Gasket–Pan, Oil |
| 1080 | 99–9021 | 1 | Gasket–Retainer |
| 20 | 99–9126 | 1 | Seal–Oil |
| 355 | 99–9063 | 1 | Washer–Seal |
| 355A | 99–9645 | 1 | Washer–Seal |
| 358 | 99–9667 | 1 | Gasket–Set |
| 51 | 99–9662 | 1 | Gasket–Intake |
| 868 | 99–9643 | 6 | Seal–Valve |
| 88 | 99–9653 | 1 | Gasket–Cover, Gear |
| 883 | 99–9178 | 1 | Gasket–Exhaust |
| 883A | 99–9179 | 1 | Gasket–Exhaust |
| 88A | 99–9136 | 1 | Gasket–Cover, Gear |

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