



# Greensmaster<sup>®</sup> 3050

## Two Wheel Drive Traction Unit

Model No. 04351—210000001 and Up

## Parts Catalog

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### 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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## Accessories

| <b>Description</b>                      | <b>Model / Part No.</b> |
|-----------------------------------------|-------------------------|
| Individual Reel Shut Off Kit .....      | 28–2150                 |
| Basket Reinforcement Kit .....          | 26–0900                 |
| Thatching Reels .....                   | 04493                   |
| Variable Speed Kit .....                | 04422                   |
| Traction Tire .....                     | 231–124                 |
| Armrests .....                          | 30707                   |
| Spiker .....                            | 04494                   |
| Tri–Roller .....                        | 04495                   |
| Backlapping Kit .....                   | 92–9656                 |
| Backlap Kit – 2 Speed, 3 Position ..... | 94–1870                 |

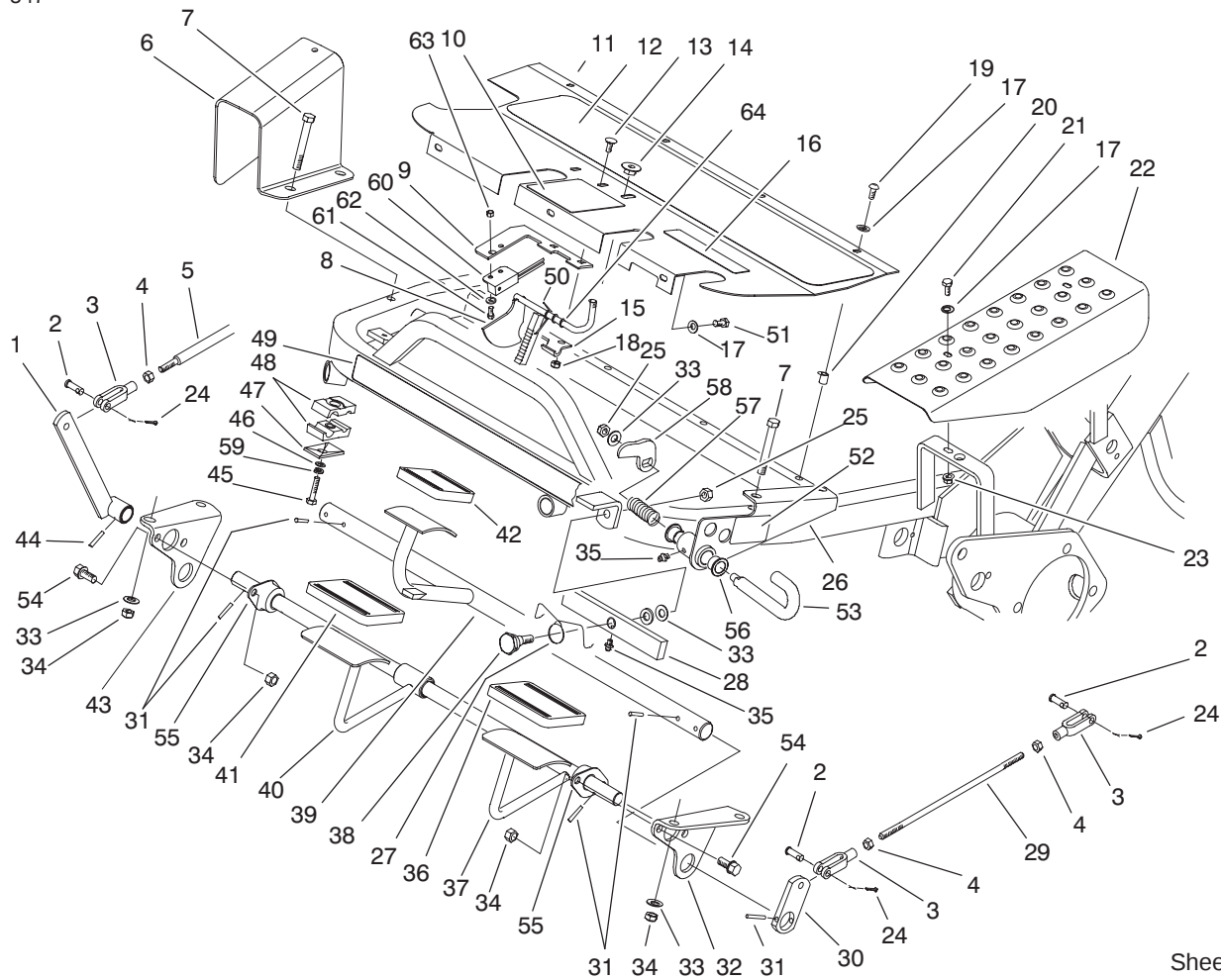
| <b>Description</b>                              | <b>Model / Part No.</b> |
|-------------------------------------------------|-------------------------|
| 8 Blade, 4 Bolt (Heavy Duty) Cutting Unit ..... | 04404                   |
| 8 Blade, 4 Bolt Cutting Unit .....              | 04408                   |
| 11 Blade, 4 Bolt Cutting Unit .....             | 04406                   |
| 8 Blade, SPA Cutting Unit .....                 | 04468                   |
| 11 Blade, SPA Cutting Unit .....                | 04450                   |
| 8 Blade, 4 Bolt Cutting Unit .....              | 04470                   |
| 11 Blade, 4 Bolt Cutting Unit .....             | 04471                   |
| 8 Blade, SPA Cutting Unit .....                 | 04472                   |
| 11 Blade, SPA Cutting Unit .....                | 04473                   |

## 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<br>thread forming |

| Abbreviation | Meaning                 |
|--------------|-------------------------|
| HYD .....    | hydraulic               |
| 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               |

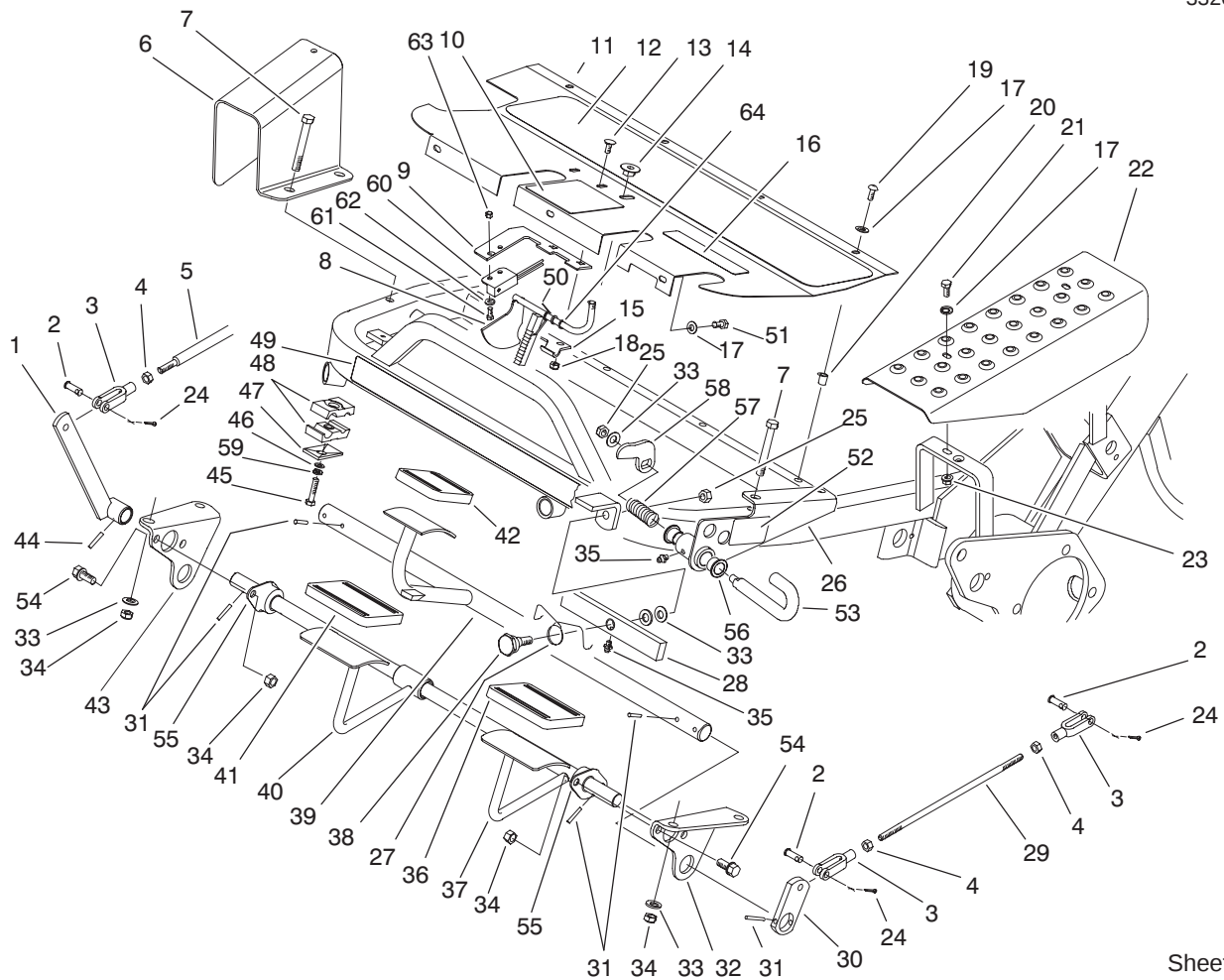


Sheet No.:2

## Control Pedal Assembly

| Ref. No. | Part No.   | Qty. | Description          |
|----------|------------|------|----------------------|
| 1        | 49-6200-01 | 1    | Lever-Cutting        |
| 2        | 283-61     | 5    | Pin-Yoke             |
| 3        | 282-2      | 5    | Yoke                 |
| 4        | 3220-2     | 5    | Nut                  |
| 5        | 49-5430    | 1    | Rod-Control          |
| 6        | 49-6110-01 | 1    | Guard                |
| 7        | 323-13     | 4    | Screw-HH             |
| 8        | 100-9819   | 1    | Latch ASM            |
| 9        | 100-9821   | 1    | Plate-Switch, Reed   |
| 10       | 93-8062    | 1    | Decal-Brake, Parking |
| 11       | 83-0640-01 | 1    | Plate-Footrest       |
| 12       | 49-6120    | 1    | Pad-Footrest         |
| 13       | 3229-11    | 2    | Screw-CARR           |
| 14       | 32141-111  | 1    | Nut-Adjusting        |
| 15       | 95-1629    | 1    | Hinge-Lower          |
| 16       | 93-8075    | 1    | Decal-Mow/Lift       |
| 17       | 3256-1     | 9    | Washer-Flat          |
| 18       | 3296-16    | 2    | Nut-Lock, NI         |
| 19       | 3274-31    | 4    | Screw-HSBH           |
| 20       | 32148-6    | 8    | Nut-Insert           |
| 21       | 321-4      | 2    | Screw-HH             |
| 22       | 83-0200-01 | 1    | Plate-Cover, LH      |
| 23       | 32128-33   | 2    | Nut-HF               |
| 24       | 3272-6     | 5    | Pin-Cotter           |
| 25       | 3296-39    | 2    | Nut-Lock, NI         |
| 26       | 93-9901-01 | 1    | Bracket-Lockout, Mow |

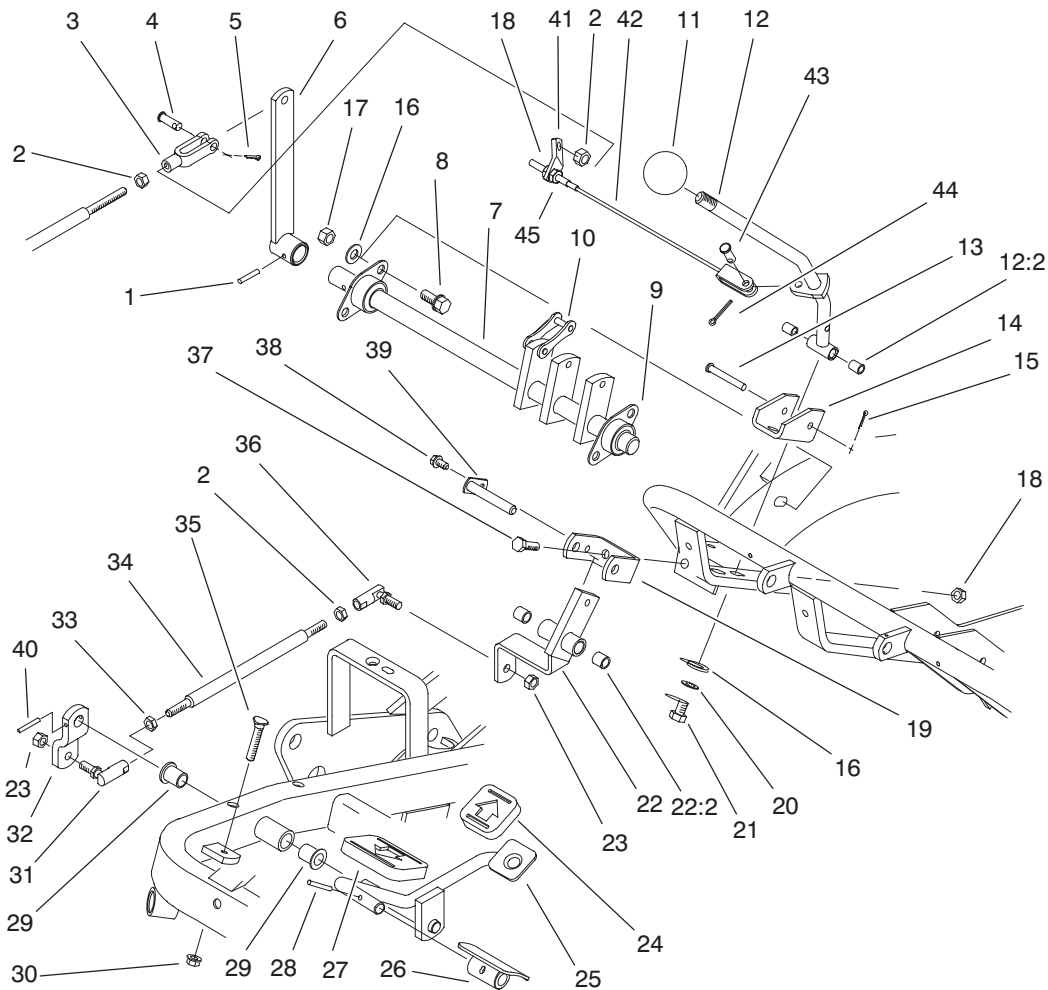
| Ref. No. | Part No.   | Qty. | Description            |
|----------|------------|------|------------------------|
| 27       | 83-0080    | 1    | Spring-Pivot, Lift     |
| 28       | 83-0060    | 1    | Lift-Pivot             |
| 29       | 27-2270    | 2    | Rod-Adjustment, Brake  |
| 30       | 10-8100-01 | 2    | Strap-Shaft, Brake     |
| 31       | 32121-35   | 8    | Pin-Roll               |
| 32       | 88-9640-01 | 1    | Bracket-Lift Pivot, LH |
| 33       | 3256-24    | 7    | Washer-Flat            |
| 34       | 3296-59    | 8    | Nut-Lock NI            |
| 35       | 302-5      | 2    | Fitting-Grease         |
| 36       | 93-7631    | 1    | Pad-Foot, Lift         |
| 37       | 88-9660    | 1    | Shaft-Control, Cut     |
| 38       | 83-2590    | 1    | Bolt-Shoulder, Pivot   |
| 39       | 83-0160    | 1    | Shaft-Brake            |
| 40       | 83-0140    | 1    | Pedal-Mow              |
| 41       | 93-7630    | 1    | Pad-Foot               |
| 42       | 93-7629    | 1    | Pad-Foot, Brake        |
| 43       | 88-9630-01 | 1    | Bracket-Lift Pivot, RH |
| 44       | 32121-6    | 1    | Pin-Roll               |
| 45       | 321-11     | 1    | Screw-HH               |
| 46       | 3256-22    | 1    | Washer-Flat            |
| 47       | 69-9760    | 1    | Coverplate             |
| 48       | 56-7970    | 2    | Clamp-Tube             |
| 49       | 95-5997    | 1    | Decal-Gr 3050          |
| 50       | 10-8140    | 1    | Bracket-Spring, Latch  |
| 51       | 321-3      | 3    | Screw-HH               |



Sheet No.:2

## Control Pedal Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description        |
|----------|----------|------|--------------------|
| 52       | 93-9898  | 1    | Decal-Lock         |
| 53       | 93-9903  | 1    | Pin-Mow, Lockout   |
| 54       | 3234-1   | 4    | Screw-HHF          |
| 55       | 27-2320  | 2    | Bearing            |
| 56       | 3-1506   | 2    | Bushing            |
| 57       | 76-0410  | 1    | Spring-Compression |
| 58       | 93-9904  | 1    | Arm-Mow, Lockout   |
| 59       | 3253-3   | 1    | Washer-Lock        |
| 60       | 104-2057 | 1    | Sensor             |
| 61       | 48-7620  | 2    | Screw-HH           |
| 62       | 48-8010  | 2    | Washer             |
| 63       | 49-7810  | 2    | Nut-Lock           |
| 64       | 75-5470  | 2    | Spacer-Bearing     |

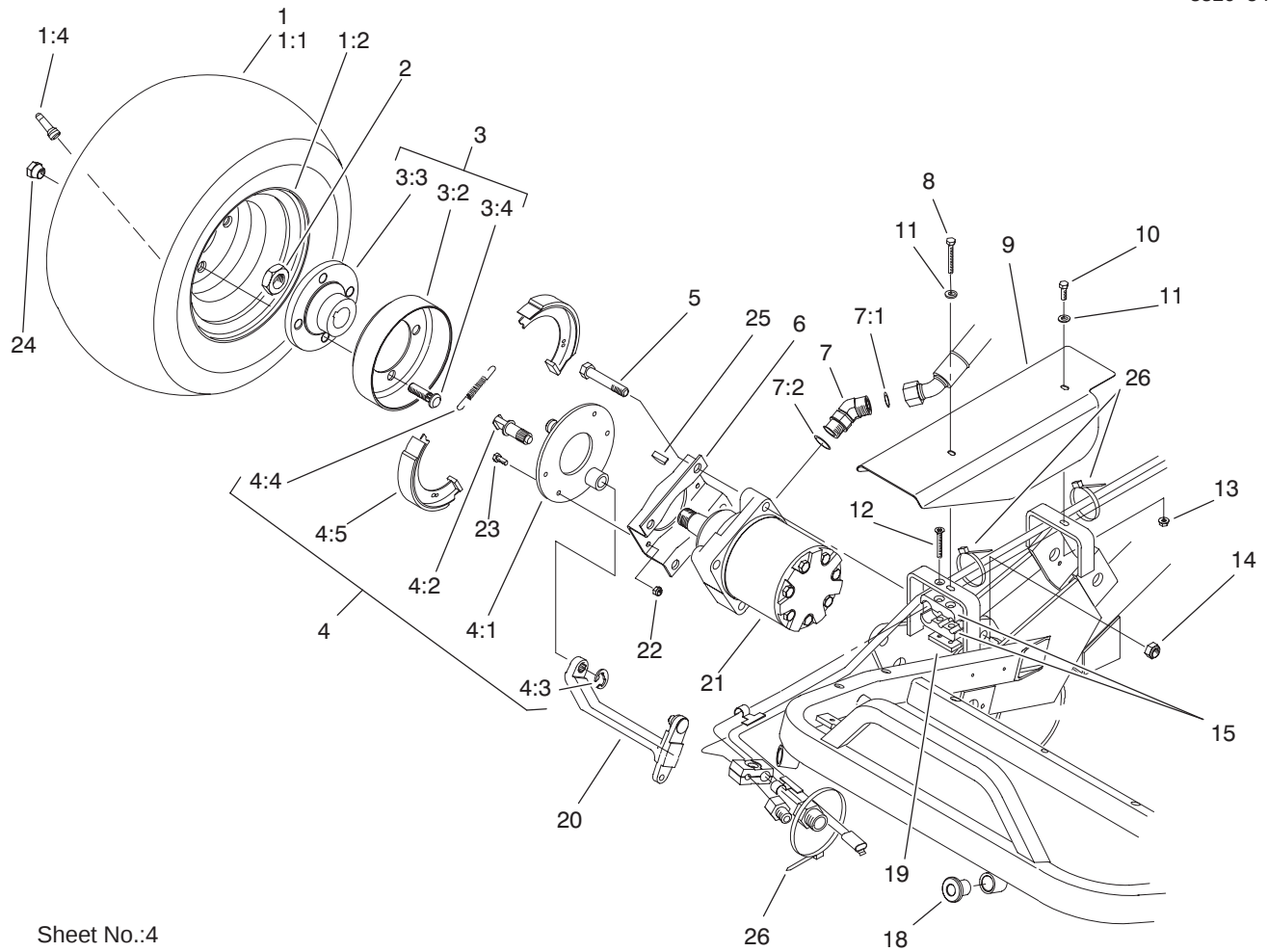


Sheet No.:3

## Traction Control Assembly

| Ref. No. | Part No.   | Qty. | Description           |
|----------|------------|------|-----------------------|
| 1        | 32121-6    | 1    | Pin-Roll              |
| 2        | 3220-2     | 3    | Nut                   |
| 3        | 282-2      | 1    | Yoke                  |
| 4        | 283-61     | 1    | Pin-Yoke              |
| 5        | 3272-6     | 1    | Pin-Cotter            |
| 6        | 47-5320-01 | 1    | Lever                 |
| 7        | 44-0870    | 1    | Cam Shaft ASM         |
| 8        | 3234-1     | 4    | Screw-HHF             |
| 9        | 27-2320    | 2    | Bearing               |
| 10       | 57-6220    | 5    | Link-Connecting       |
| 11       | 233-48     | 1    | Knob                  |
| 12       | 93-9934    | 1    | Handle-Traction       |
| 12:2     | 256-251    | 2    | Bushing               |
| 13       | 283-57     | 1    | Pin                   |
| 14       | 49-6220    | 1    | Bracket-Arm, Control  |
| 15       | 3272-4     | 1    | Pin-Cotter            |
| 16       | 3256-24    | 6    | Washer-Flat           |
| 17       | 3296-59    | 4    | Nut-Lock NI           |
| 18       | 3296-29    | 3    | Nut-Lock NI           |
| 19       | 49-6250    | 1    | Bracket-Pivot         |
| 20       | 3254-6     | 2    | Washer-Lock, Internal |
| 21       | 3211-2     | 2    | Screw-HH              |
| 22       | 49-6260    | 1    | Pivot ASM             |
| 22:2     | 256-2      | 2    | Bushing               |
| 23       | 3296-4     | 2    | Nut-Lock, NI          |
| 24       | 74-9110    | 1    | Pad-Pedal, Reverse    |

| Ref. No. | Part No.   | Qty. | Description              |
|----------|------------|------|--------------------------|
| 25       | 83-0540-01 | 1    | Traction Pedal ASM       |
| 26       | 49-6440-03 | 1    | Pedal-Forward            |
| 27       | 74-9100    | 1    | Pad-Pedal, Forward       |
| 28       | 32121-45   | 1    | Pin-Spring               |
| 29       | 256-155    | 2    | Bushing-Flange           |
| 30       | 32128-20   | 1    | Nut-HF                   |
| 31       | 2411-42    | 1    | Joint-Ball, LH           |
| 32       | 83-0630    | 1    | Arm-Pivot, Traction      |
| 33       | 3220-20    | 1    | Nut-Jam                  |
| 34       | 83-0580    | 1    | Rod-Control, Traction    |
| 35       | 17-9420    | 1    | Screw-Handle             |
| 36       | 2411-43    | 1    | Joint-Ball               |
| 37       | 322-5      | 2    | Screw-HH                 |
| 38       | 12-3270    | 1    | Screw                    |
| 39       | 49-6290    | 1    | Pivot Shaft ASM          |
| 40       | 32121-51   | 1    | Pin-Roll                 |
| 41       | 93-9936    | 1    | Bracket-Return, Traction |
| 42       | 93-9937    | 1    | Traction Cable ASM       |
| 43       | 283-62     | 1    | Pin-Clevis               |
| 44       | 3272-10    | 1    | Pin-Cotter               |
| 45       | 3217-6     | 1    | Nut-Hex                  |



Sheet No.:4

## Front Wheel And Brake Assembly

| Ref. No. | Part No.   | Qty. | Description      |
|----------|------------|------|------------------|
| ☆1       |            | 2    | Wheel & Tire ASM |
| 1:1      | 28-3680    | 1    | Tire             |
| 1:2      | 217-60     | 1    | Rim              |
| 1:4      | 232-24     | 1    | Stem-Valve       |
| *1:5     | 232-37     | 1    | Tube             |
| 2        | 26-3790    | 2    | Nut-Lock         |
| 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        |
| 4:1      | 70-9870    | 1    | Plate-Backing    |
| 4:2      | 104-7707   | 1    | Cam Shaft-Brake  |
| 4:3      | 104-7706   | 1    | E-Ring-Bowed     |
| 4:4      | 70-9880    | 2    | Spring-Return    |
| 4:5      | 70-9840    | 2    | Shoe-Brake       |
| 5        | 325-11     | 8    | Screw-HH         |
| 6        | 84-2000-03 | 2    | Bracket-Brake    |
| 7        | 340-14     | 4    | Fitting-HYD, 45° |
| 7:1      | 237-65     | 1    | O-Ring           |
| 7:2      | 237-80     | 1    | O-Ring           |
| 8        | 321-11     | 1    | Screw-HH         |
| 9        | 83-0190-01 | 1    | Cover-RH         |
| 10       | 321-4      | 1    | Screw-HH         |
| 11       | 3256-22    | 2    | Washer-Flat      |
| 12       | 32108-100  | 1    | Screw-FH         |

| Ref. No. | Part No. | Qty. | Description      |
|----------|----------|------|------------------|
| 13       | 32128-33 | 1    | Nut-HF           |
| 14       | 3296-23  | 8    | Nut-Lock, NI     |
| 15       | 57-6140  | 2    | Clamp-Tube, Half |
| 18       | 83-1700  | 3    | Bushing-Flange   |
| 19       | 83-1220  | 1    | Plate-Clamp      |
| 20       | 93-2096  | 2    | Lever-Brake      |
| 21       | 92-9199  | 2    | Motor-HYD, Wheel |
| 22       | 3296-42  | 8    | Nut-Lock, NI     |
| 23       | 321-5    | 8    | Screw-HH         |
| 24       | 242-50   | 8    | Nut-Lug          |
| 25       | 3257-42  | 2    | Key-Woodruff     |
| 26       | 3290-378 | 3    | Tie-Cable        |

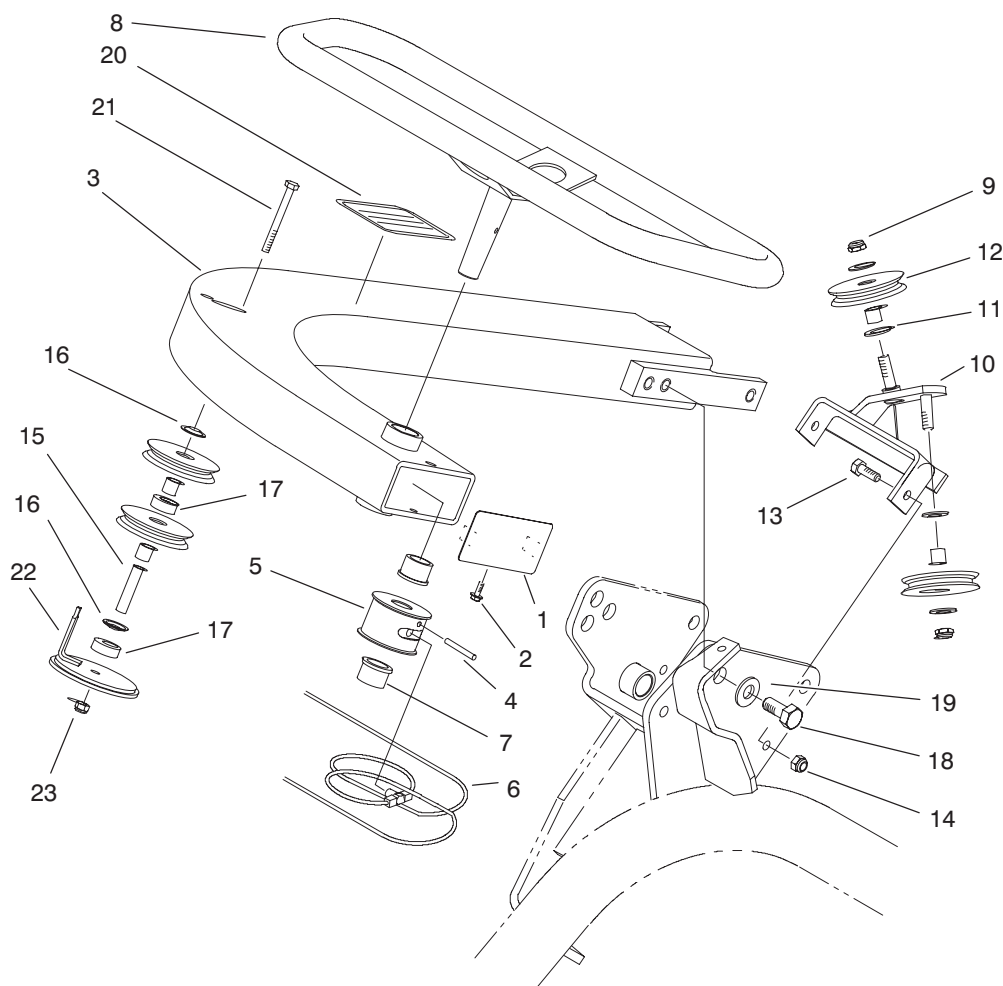
☆ Not serviced  
 \* Not illustrated

$$\begin{array}{l} 27 \left[ \begin{array}{l} 1 \\ 4 - 7 \\ 15 \end{array} \right] \\ 28 \left[ \begin{array}{l} 2, 3 \\ 8 - 10 \end{array} \right] \end{array}$$


# Hydraulic Drive 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    | Set-Rotor                  |
| 26       | 76-0880  | 1    | Commutator ASM             |
| 27       | 94-8178  | 1    | Kit-Seal                   |
| 28       | 76-0810  | 1    | Wheel Motor Housing<br>ASM |

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

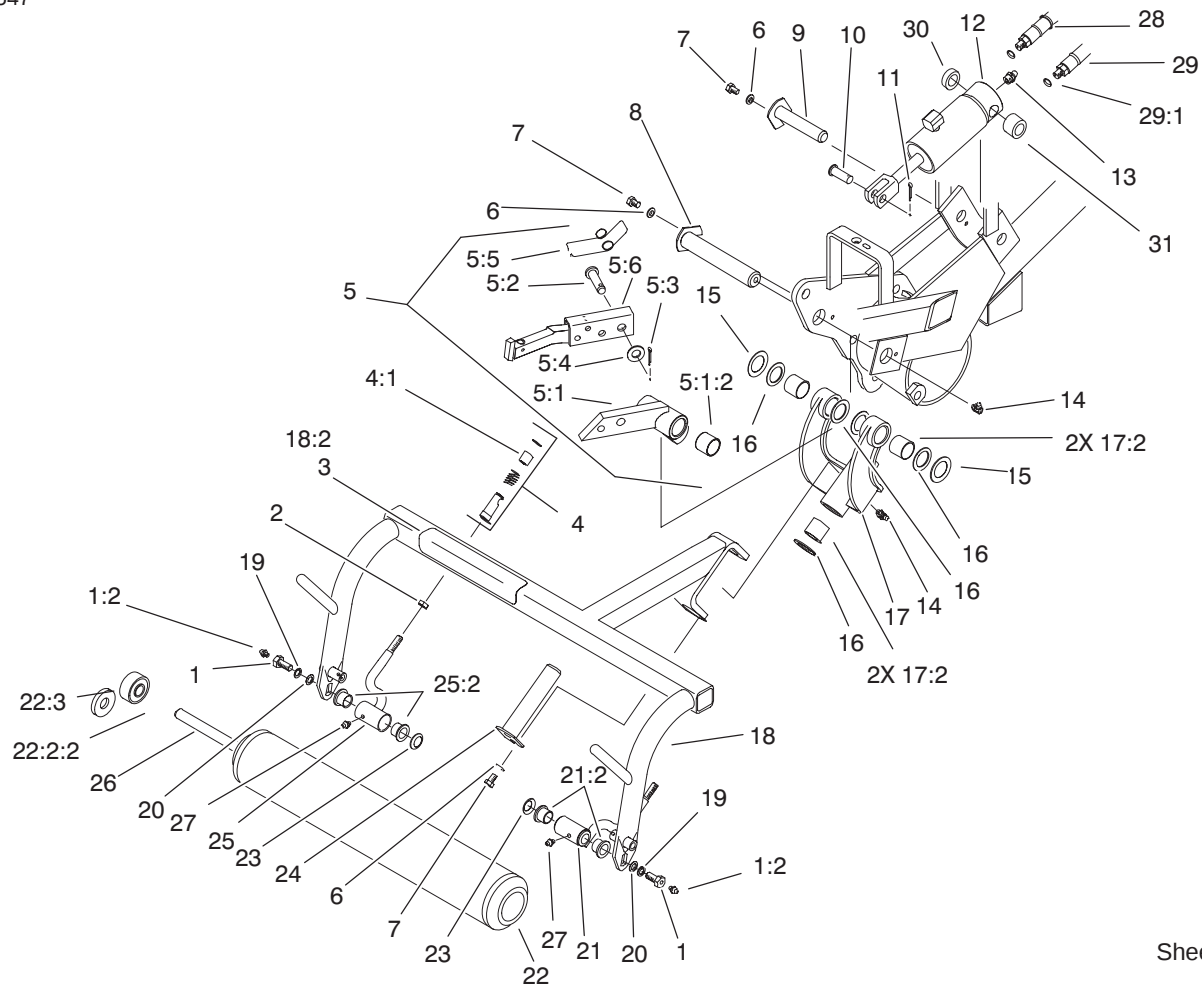


Sheet No.:5

## Steering Arm Assembly

| Ref. No. | Part No.   | Qty. | Description                |
|----------|------------|------|----------------------------|
| 1        | 95-7140-01 | 1    | Tube Cap ASM               |
| 2        | 32104-76   | 2    | Screw                      |
| 3        | 95-2941-01 | 1    | Steering Arm               |
| 4        | 32121-44   | 1    | Pin-Roll                   |
| 5        | 95-7149    | 1    | Pulley-Front Steering      |
| 6        | 95-5965    | 1    | Cable-Steering             |
| 7        | 256-113    | 2    | Bushing-Flange             |
| 8        | 49-5900    | 1    | Steering Wheel ASM         |
| 9        | 3296-59    | 2    | Nut-Lock NI                |
| 10       | 95-2932    | 1    | Bracket-Pulley             |
| 11       | 3256-4     | 4    | Washer-Flat                |
| 12       | 5-2653     | 4    | Pulley ASM                 |
| 13       | 322-4      | 2    | Screw-HH                   |
| 14       | 3296-29    | 2    | Nut-Lock NI                |
| 15       | 10-7240    | 1    | Sleeve-Pulley,<br>Steering |
| 16       | 3290-314   | 2    | Tinnerman                  |
| 17       | 71-5440    | 2    | Spacer-Wheel               |
| 18       | 325-2      | 4    | Screw-HH                   |
| 19       | 3256-26    | 4    | Washer-Flat                |
| 20       | 93-8063    | 1    | Decal-Warning<br>(Europe)  |
| 20       | 104-2053   | 1    | Decal-Warning              |
| 21       | 321-15     | 1    | Screw-HH                   |
| 22       | 95-5959-01 | 1    | Pulley Support             |
| 23       | 3296-16    | 1    | Nut-Lock, NI               |

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



Sheet No.: 6

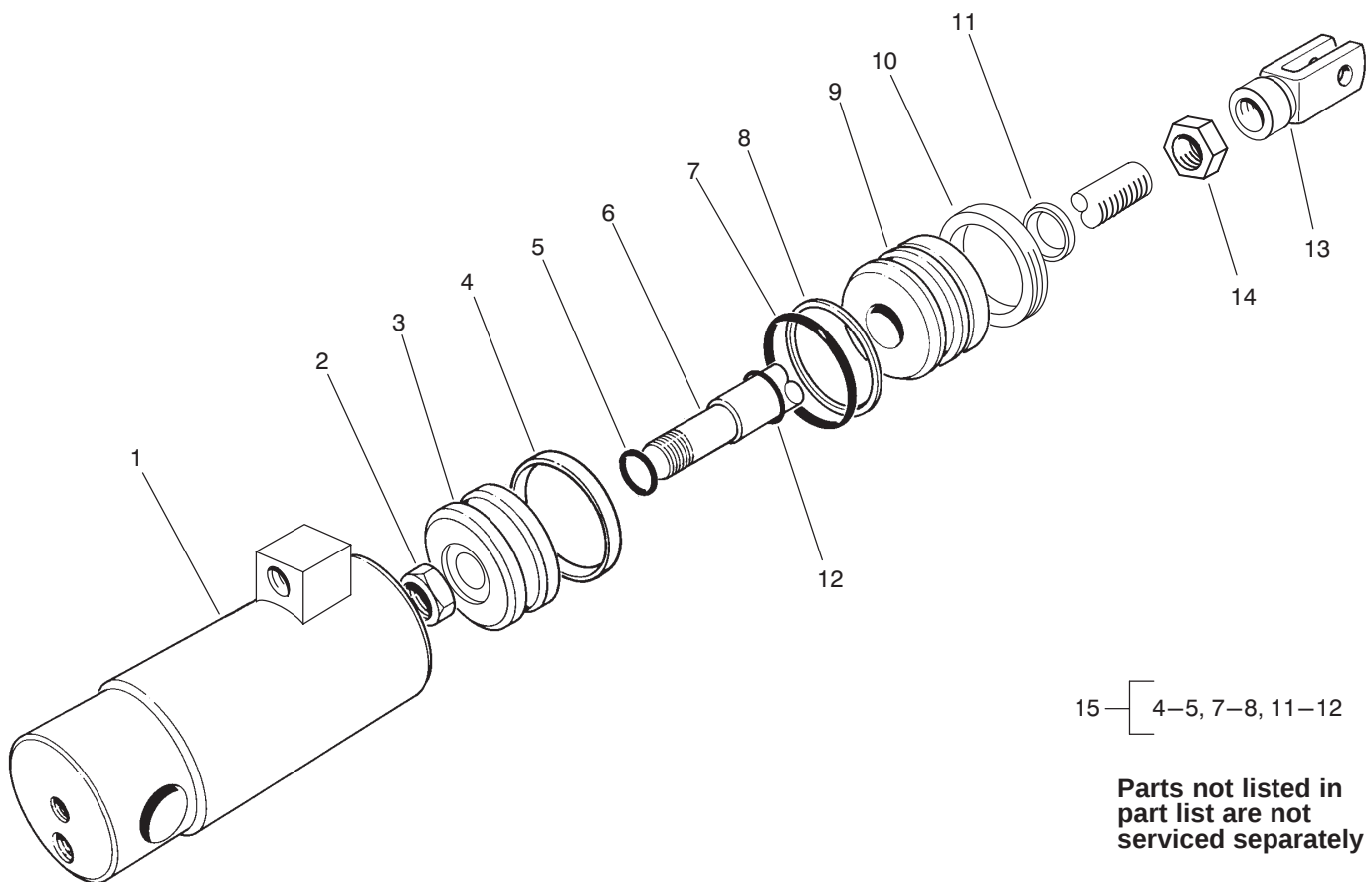
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## Right Hand Pull Frame Assembly

| Ref. No. | Part No.   | Qty. | Description             |
|----------|------------|------|-------------------------|
| 1        | 11-0160    | 2    | Roller Shaft Screw ASM  |
| 1:2      | 302-5      | 1    | Fitting-Grease          |
| 2        | 3220-3     | 2    | Nut-Jam                 |
| 3        | 93-8064    | 1    | Decal-Danger (Europe)   |
| 4        | 99-1460    | 2    | Ball Joint Receiver ASM |
| 4:1      | 99-1461    | 1    | Sleeve-Joint, Ball      |
| 5        | 94-5590    | 1    | RH Lift Arm ASM         |
| 5:1      | 62-2440    | 1    | Lift Arm ASM            |
| 5:1:2    | 3-0348     | 2    | Bushing                 |
| 5:2      | 63-8750    | 1    | Pin-Pivot               |
| 5:3      | 3272-11    | 1    | Pin-Cotter              |
| 5:4      | 3256-26    | 1    | Washer-Flat             |
| 5:5      | 57-7650    | 1    | Spring-Torsion          |
| 5:6      | 94-5588-01 | 1    | Bar-Lift                |
| 6        | 3256-23    | 3    | Washer-Flat             |
| 7        | 322-1      | 3    | Screw-HH                |
| 8        | 10-6110    | 1    | Pin-Hinge               |
| 9        | 10-6060    | 1    | In-Pivot, Ram           |
| 10       | 283-8      | 1    | Pin-Clevis              |
| 11       | 3272-11    | 1    | Pin-Cotter              |
| 12       | 99-8159    | 1    | HYD Cylinder ASM        |
| 13       | 302-2      | 1    | Fitting-Grease          |
| 14       | 302-60     | 2    | Fitting-Lube            |

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 15       | 5-1226   | 2    | Washer               |
| 16       | 10-8110  | 6    | Washer-Thrust        |
| 17       | 10-7820  | 1    | Pivot Hinge ASM      |
| 17:2     | 3-0348   | 4    | Bushing              |
| 18       | 104-2055 | 1    | Right Pull Frame ASM |
| 18:2     | 62-5070  | 1    | Decal-Warning        |
| 19       | 3253-21  | 2    | Washer-Lock          |
| 20       | 3256-24  | 2    | Washer-Flat          |
| 21       | 92-0586  | 1    | Pull Arm ASM         |
| 21:2     | 3-1506   | 2    | Bushing              |
| 22       | 99-4277  | 1    | Roller ASM           |
| ★22:2    |          | 2    | Hub Yoke ASM         |
| 22:2:2   | 253-83   | 1    | Seal-Oil             |
| 22:3     | 251-141  | 2    | Earing-Ball          |
| 23       | 3290-317 | 2    | Washer-Spring        |
| 24       | 10-6090  | 1    | Pin-Pivot            |
| 25       | 92-0585  | 1    | Pull Arm ASM         |
| 25:2     | 3-1506   | 2    | Bushing              |
| 26       | 21-8470  | 1    | Shaft-Roller         |
| 27       | 302-5    | 2    | Fitting-Grease       |
| 28       | 3290-378 | 1    | Tie-Cable            |
| 29       | 92-9767  | 2    | Hose                 |
| 29:1     | 237-78   | 1    | O-Ring               |
| 30       | 105-3828 | 1    | Spacer               |
| 31       | 74-3730  | 1    | Spacer-Spindle, Rear |

★ Not serviced



15 — 4–5, 7–8, 11–12

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

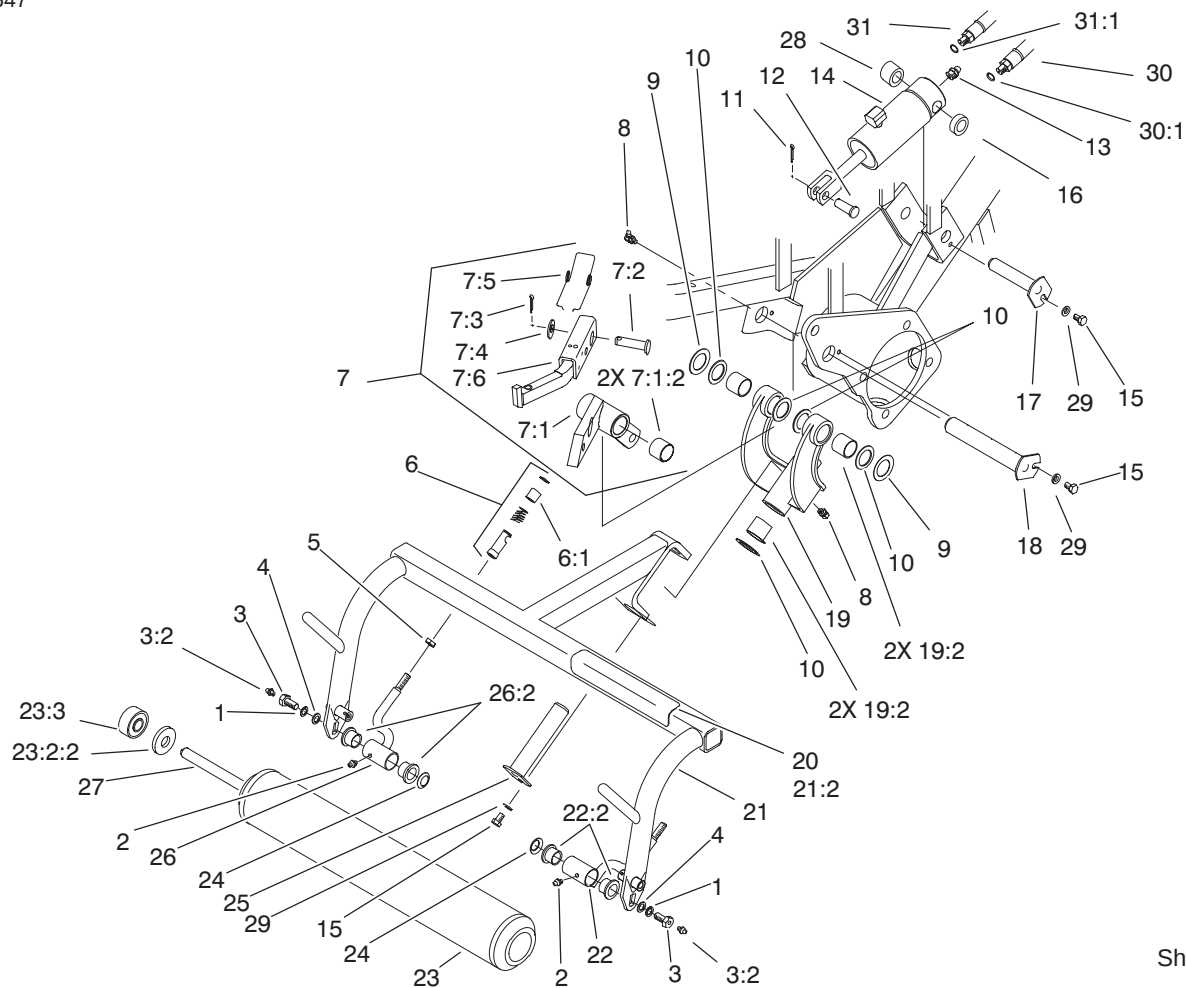
Sheet No.: A2

T-3359

# Hydraulic Cylinder Assembly No. 99-8159

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 2        | 32152-10 | 1    | Locknut-Deform, Top  |
| 3        | 52-1990  | 1    | Piston-Cylinder, HYD |
| 13       | 76-1850  | 1    | Clevis               |
| 14       | 3220-6   | 1    | Nut-Jam              |
| 15       | 99-8163  | 1    | Kit-Repair, Seal     |

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



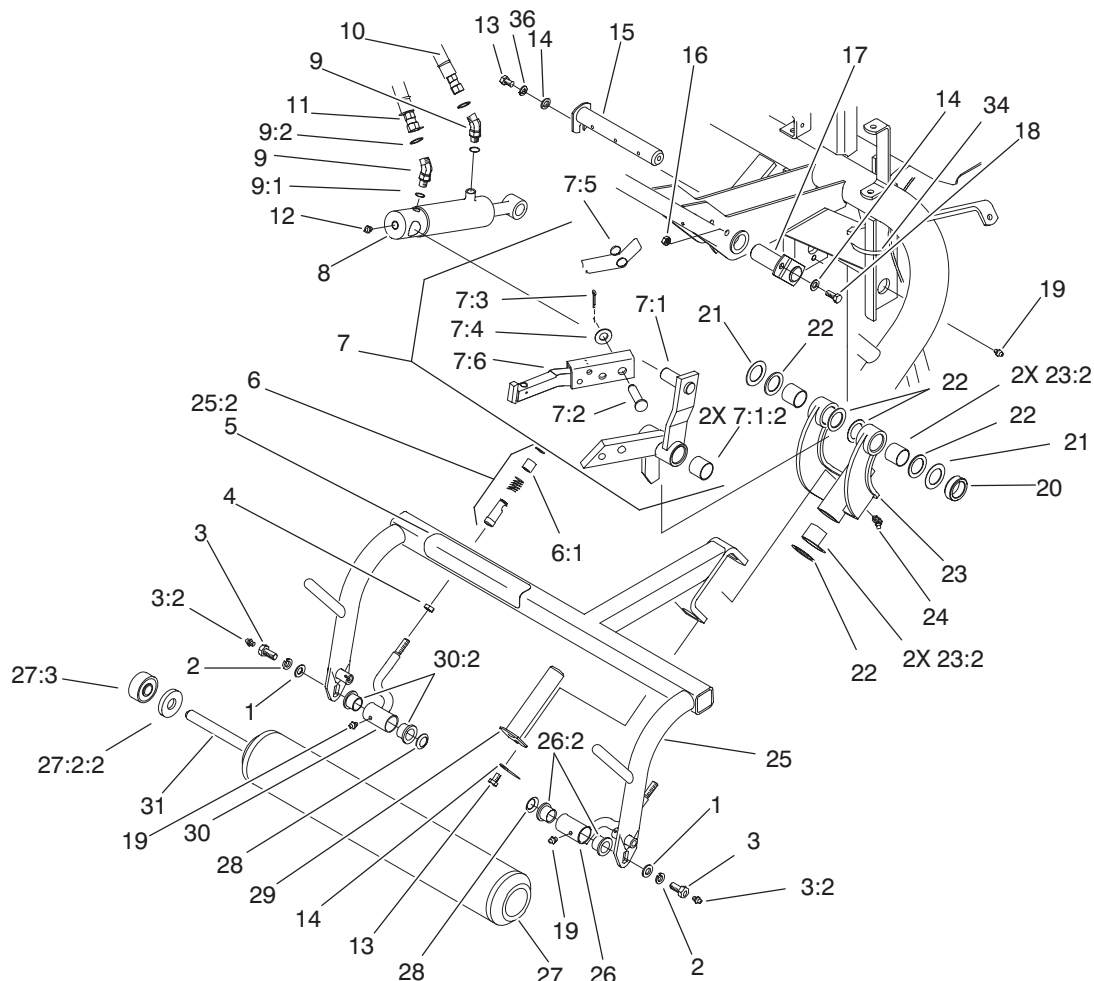
Sheet No.: 7  
T-3360

## Left Hand Pull Frame Assembly

| Ref. No. | Part No.   | Qty. | Description         |
|----------|------------|------|---------------------|
| 1        | 3253-21    | 2    | Washer-Lock         |
| 2        | 302-5      | 2    | Fitting-Grease      |
| 3        | 11-0160    | 2    | Roller Shaft Screw  |
| 3:2      | 302-5      | 1    | Fitting-Grease      |
| 4        | 3256-24    | 2    | Washer-Flat         |
| 5        | 3220-3     | 2    | Nut-Jam             |
| 6        | 99-1460    | 2    | Ball Joint Receiver |
| 6:1      | 99-1461    | 1    | Sleeve-Joint, Ball  |
| ☆7       |            | 1    | LH Lift Arm ASM     |
| 7:1      | 62-2460    | 1    | Lift Arm ASM        |
| 7:1:2    | 3-0348     | 2    | Bushing             |
| 7:2      | 63-8750    | 1    | Pin-Pivot           |
| 7:3      | 3272-11    | 1    | Pin-Cotter          |
| 7:4      | 3256-26    | 1    | Washer-Flat         |
| 7:5      | 57-7650    | 1    | Spring-Torsion      |
| 7:6      | 94-5586-01 | 1    | Bar-Lift            |
| 8        | 302-60     | 2    | Fitting-Lube        |
| 9        | 5-1226     | 2    | Washer              |
| 10       | 10-8110    | 6    | Washer-Thrust       |
| 11       | 3272-11    | 1    | Pin-Cotter          |
| 12       | 283-8      | 1    | Pin-Clevis          |
| 13       | 302-2      | 1    | Fitting-Grease      |
| 14       | 99-8159    | 1    | HYD Cylinder ASM    |
| 15       | 322-1      | 3    | Screw-HH            |

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 16       | 105-3828 | 1    | Spacer               |
| 17       | 10-6060  | 1    | In-Pivot, Ram        |
| 18       | 10-6110  | 1    | Pin-Hinge            |
| 19       | 10-7820  | 1    | Pivot Hinge ASM      |
| 19:2     | 3-0348   | 4    | Bushing              |
| 20       | 93-8064  | 1    | Decal-Danger         |
| 21       | 104-2054 | 1    | Left Pull Frame ASM  |
| 21:2     | 62-5070  | 1    | Decal-Warning        |
| 22       | 92-0586  | 1    | Pull Arm ASM         |
| 22:2     | 3-1506   | 2    | Bushing              |
| 23       | 99-4277  | 1    | Roller ASM           |
| ☆23:2    |          | 2    | Hub Yoke ASM         |
| 23:2:2   | 253-83   | 1    | Seal-Oil             |
| 23:3     | 251-141  | 2    | Earing-Ball          |
| 24       | 3290-317 | 2    | Washer-Spring        |
| 25       | 10-6090  | 1    | Pin-Pivot            |
| 26       | 92-0585  | 1    | Pull Arm ASM         |
| 26:2     | 3-1506   | 2    | Bushing              |
| 27       | 21-8470  | 1    | Shaft-Roller         |
| 28       | 74-3730  | 1    | Spacer-Spindle, Rear |
| 29       | 3256-23  | 3    | Washer-Flat          |
| 30       | 83-1690  | 1    | Hose-HYD             |
| 30:1     | 237-78   | 1    | O-Ring               |
| 31       | 63-3850  | 1    | Hose ASM             |
| 31:1     | 237-78   | 1    | O-Ring               |

☆ Not serviced

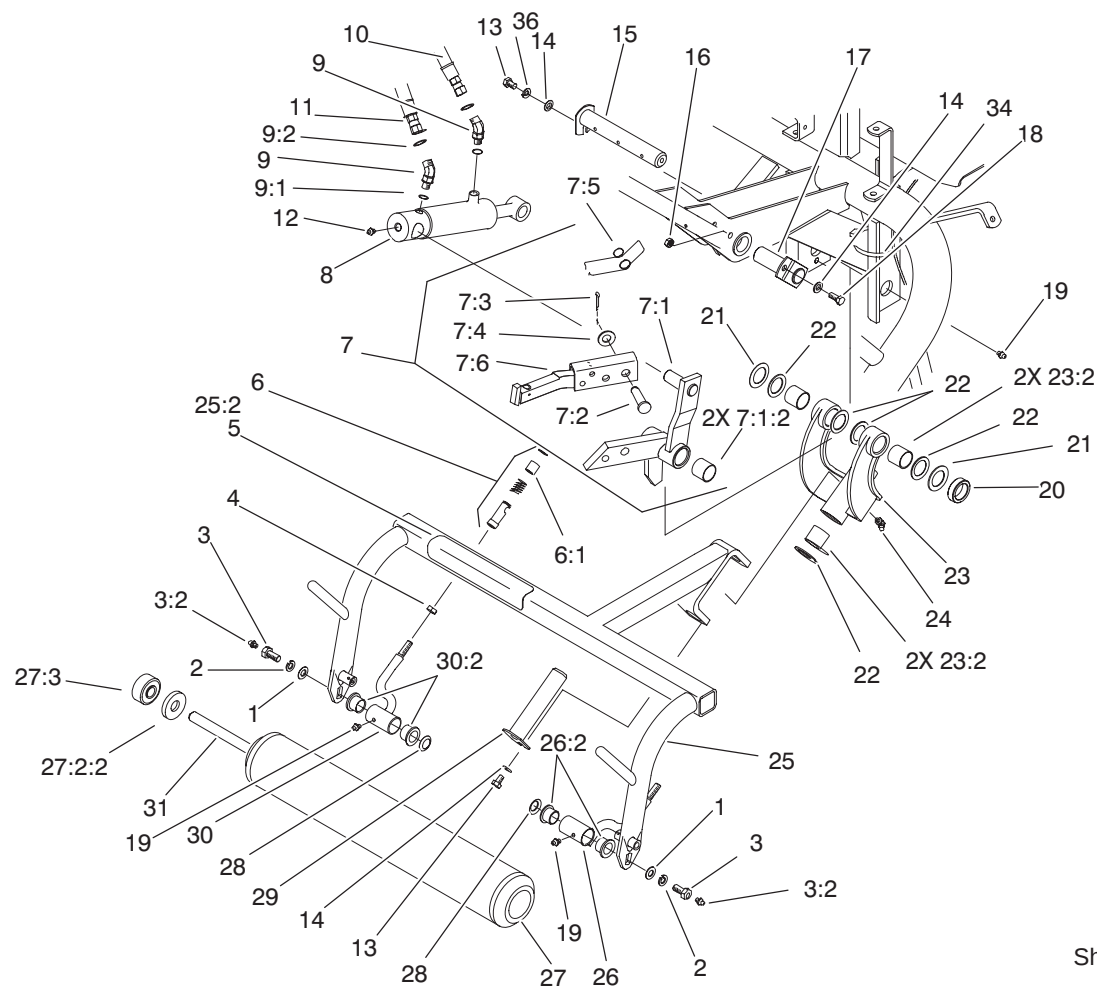


Sheet No.: 8  
T-3361

## Rear Pull Frame Assembly

| Ref. No. | Part No.   | Qty. | Description             | Ref. No. | Part No. | Qty. | Description         |
|----------|------------|------|-------------------------|----------|----------|------|---------------------|
| 1        | 3256-24    | 2    | Washer-Flat             | 13       | 322-1    | 2    | Screw-HH            |
| 2        | 3253-21    | 2    | Washer-Lock             | 14       | 3256-23  | 3    | Washer-Flat         |
| 3        | 11-0160    | 2    | Roller Shaft Screw      | 15       | 27-2550  | 1    | Pin-Hinge           |
| 3:2      | 302-5      | 1    | Fitting-Grease          | 16       | 3296-29  | 1    | Nut-Lock NI         |
| 4        | 3220-3     | 2    | Nut-Jam                 | 17       | 68-5560  | 1    | Pin-Cylinder, Pivot |
| 5        | 93-8064    | 1    | Decal-Danger (Europe)   | 18       | 322-3    | 1    | Screw-HH            |
| 6        | 99-1460    | 2    | Ball Joint Receiver ASM | 19       | 302-5    | 3    | Fitting-Grease      |
| 6:1      | 99-1461    | 1    | Sleeve-Joint, Ball      | 20       | 93-2384  | 1    | Spacer-Carrier      |
| ☆7       |            | 1    | Center Lift Arm ASM     | 21       | 5-1226   | 2    | Washer              |
| 7:1      | 68-5380    | 1    | Center Lift Arm ASM     | 22       | 10-8110  | 6    | Washer-Thrust       |
| 7:1:2    | 3-0348     | 2    | Bushing                 | 23       | 10-7820  | 1    | Pivot Hinge ASM     |
| 7:2      | 63-8750    | 1    | Pin-Pivot               | 23:2     | 3-0348   | 4    | Bushing             |
| 7:3      | 3272-11    | 1    | Pin-Cotter              | 24       | 302-60   | 1    | Fitting-Lube        |
| 7:4      | 3256-26    | 1    | Washer-Flat             | 25       | 104-2056 | 1    | Rear Pull Frame ASM |
| 7:5      | 57-7650    | 1    | Spring-Torsion          | 25:2     | 62-5070  | 1    | Decal-Warning       |
| 7:6      | 62-2420-01 | 1    | Bar-Lift                | 26       | 92-0586  | 1    | Pull Arm ASM        |
| 8        | 99-8160    | 1    | HYD Cylinder ASM        | 26:2     | 3-1506   | 2    | Bushing             |
| 9        | 340-103    | 2    | Fitting-HYD, 45°        | 27       | 99-4277  | 1    | Roller ASM          |
| 9:1      | 237-78     | 1    | O-Ring                  | ☆27:2    |          | 2    | Hub Yoke ASM        |
| 9:2      | 237-21     | 1    | O-Ring                  | 27:2:2   | 253-83   | 1    | Seal-Oil            |
| 10       | 83-1680    | 1    | Hose-HYD                | 27:3     | 251-141  | 2    | Earing-Ball         |
| 11       | 88-9700    | 1    | Hose-HYD                | 28       | 3290-317 | 2    | Washer-Spring       |
| 12       | 302-2      | 1    | Fitting-Grease          | 29       | 10-6090  | 1    | Pin-Pivot           |
|          |            |      |                         | 30       | 92-0585  | 1    | Pull Arm ASM        |
|          |            |      |                         | 30:2     | 3-1506   | 2    | Bushing             |
|          |            |      |                         | 31       | 21-8470  | 1    | Shaft-Roller        |

☆ Not serviced

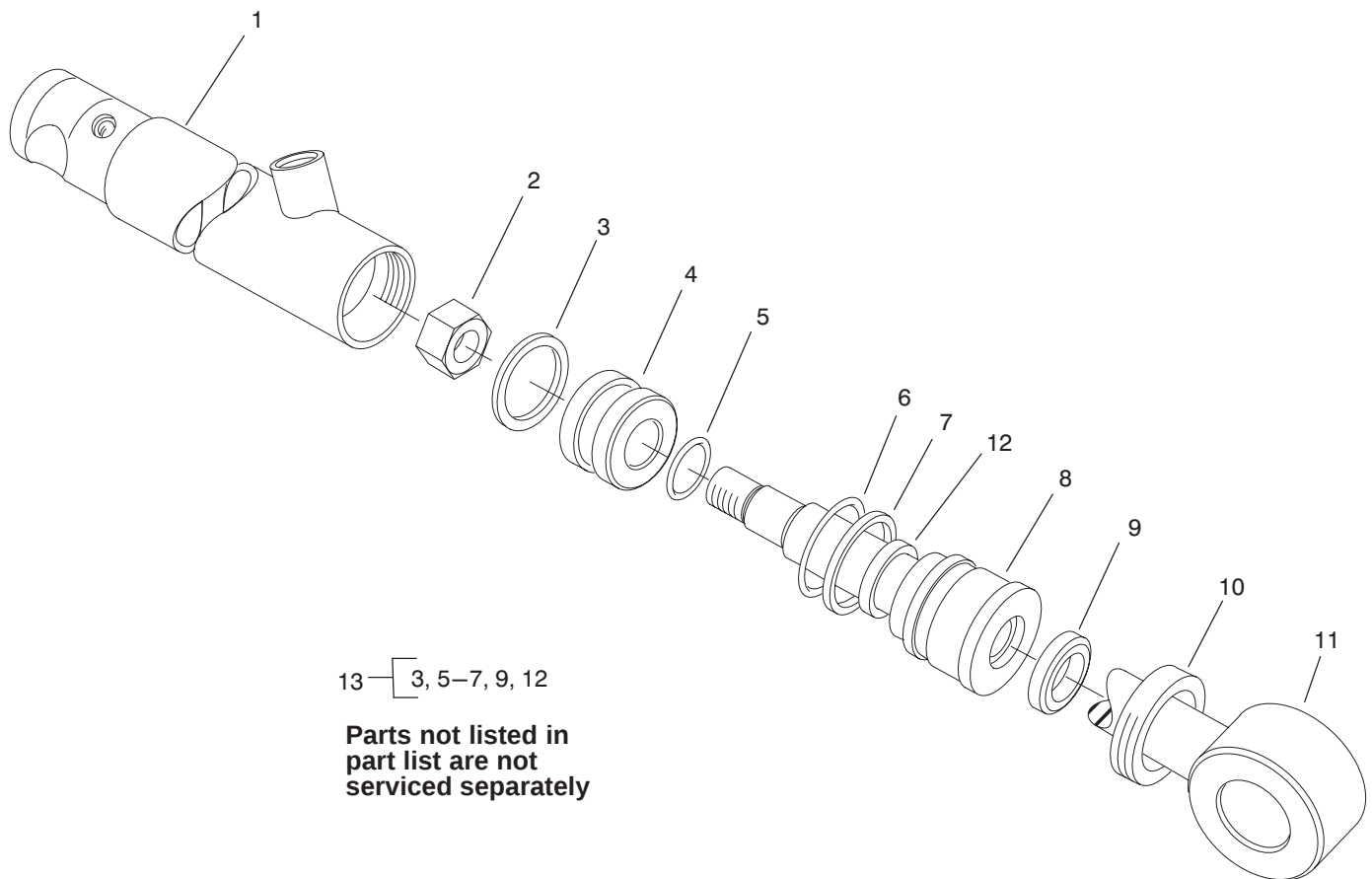


Sheet No.: 8  
T-3361

# Rear Pull Frame Assembly

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 34       | 3290-379 | 1    | Tie-Cable   |
| 36       | 3253-4   | 1    | Washer-Lock |

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

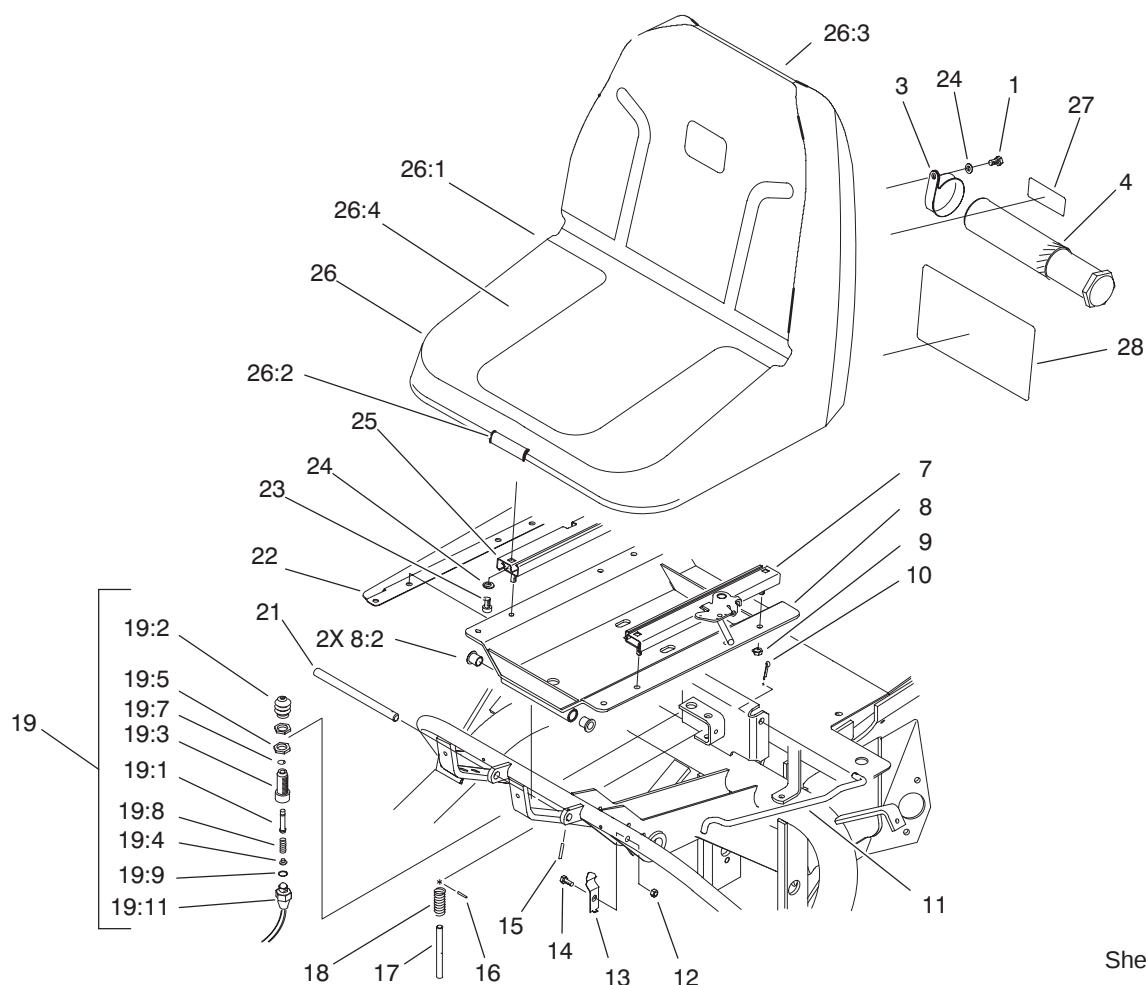


Sheet No.: A3  
T-3362

# Hydraulic Cylinder No. 99-8160

| Ref. No. | Part No. | Qty. | Description         |
|----------|----------|------|---------------------|
| 2        | 32152-10 | 1    | Locknut-Deform, Top |
| 4        | 70-2780  | 1    | Piston              |
| 13       | 99-8162  | 1    | Kit-Repair, Seal    |

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

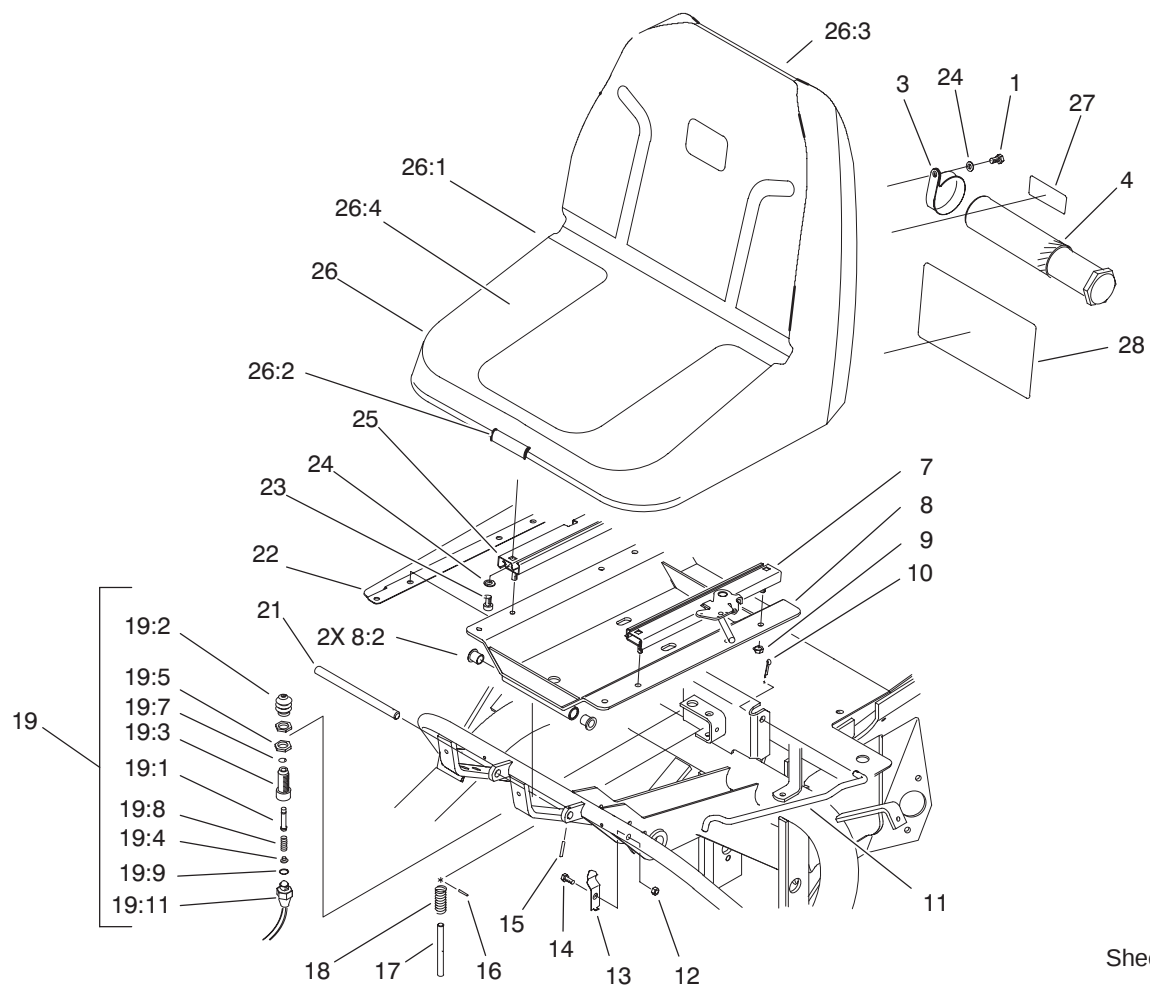


Sheet No.: 9  
T-3363

## Seat Assembly

| Ref. No. | Part No. | Qty. | Description        |
|----------|----------|------|--------------------|
| 1        | 322-2    | 2    | Screw-HH           |
| 3        | 2412-133 | 2    | R-Clamp            |
| 4        | 74-0720  | 1    | Tube-Manual        |
| 7        | 51-0790  | 1    | Adjuster-Seat, LH  |
| 8        | 83-1270  | 1    | Seat Support ASM   |
| 8:2      | 256-155  | 2    | Bushing-Flange     |
| 9        | 3296-29  | 4    | Nut-Lock NI        |
| 10       | 3272-11  | 1    | Pin-Cotter         |
| 11       | 68-5100  | 1    | Rod-Seat, Prop     |
| 12       | 3296-16  | 1    | Nut-Lock, NI       |
| 13       | 68-5310  | 1    | Clip-Rod, Prop     |
| 14       | 321-3    | 1    | Screw-HH           |
| 15       | 32121-45 | 1    | Pin-Spring         |
| 16       | 3284-3   | 1    | Pin-Groove         |
| 17       | 51-0350  | 1    | Pin-Spring, Seat   |
| 18       | 3-6685   | 1    | Spring             |
| 19       | 43-9071  | 1    | Imit Switch ASM    |
| 19:1     | 43-8860  | 1    | Plunger-Switch     |
| 19:2     | 43-8870  | 1    | Boot-Switch        |
| 19:3     | 43-8620  | 1    | Pin-Guide, Switch  |
| 19:4     | 43-8610  | 1    | Guide              |
| 19:5     | 218-461  | 2    | Nut-HH             |
| 19:7     | 237-7    | 1    | O-Ring             |
| 19:8     | 43-8600  | 1    | Spring-Compression |
| 19:9     | 237-30   | 1    | O-Ring             |
| 19:11    | 72-4320  | 1    | Switch             |

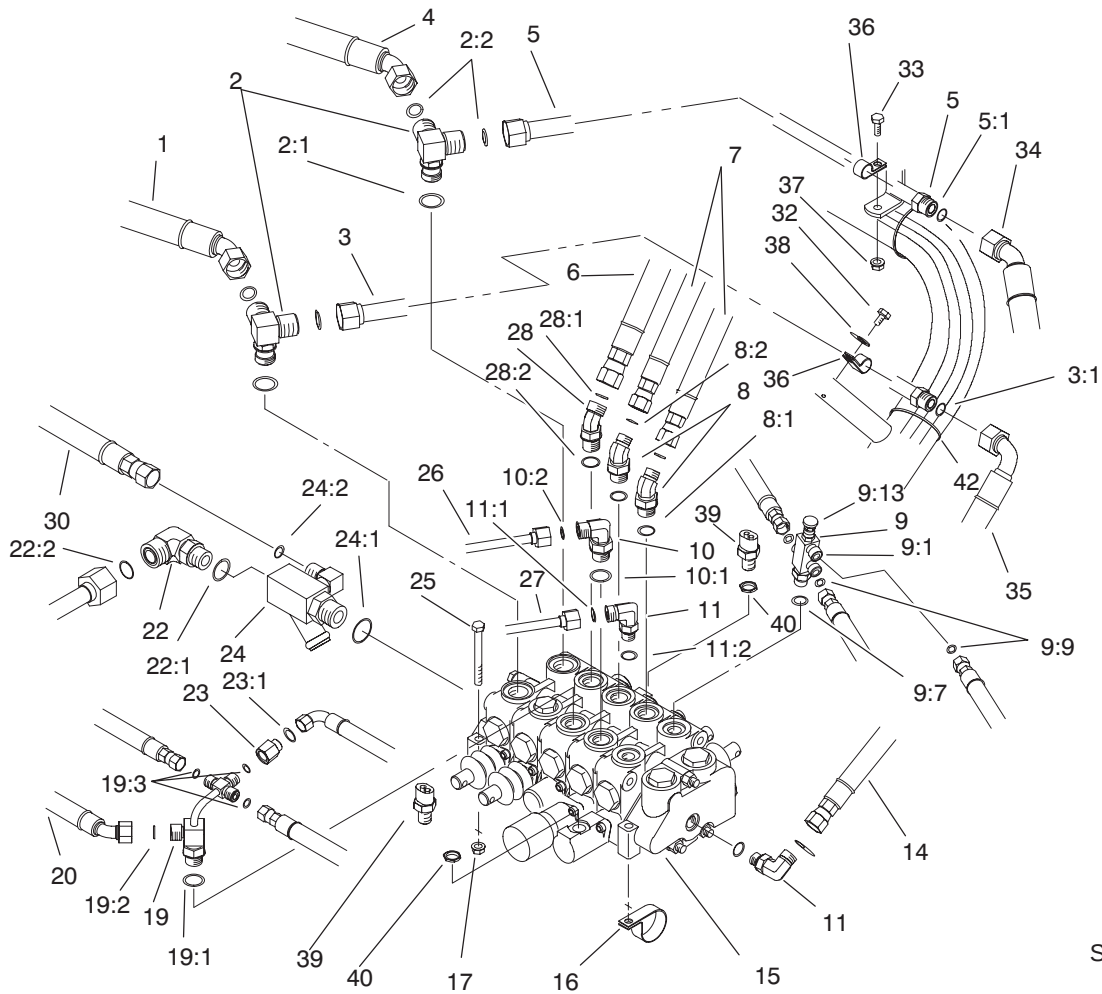
| Ref. No. | Part No.   | Qty. | Description               |
|----------|------------|------|---------------------------|
| 21       | 49-5880    | 1    | Shaft-Support, Seat       |
| 22       | 83-1840-01 | 1    | Cover-Valve, RH           |
| 23       | 3274-12    | 4    | Screw-HSH                 |
| 24       | 3256-23    | 6    | Washer-Flat               |
| 25       | 51-0780    | 1    | Slider-Seat               |
| 26       | 100-3187   | 1    | Seat ASM                  |
| 26:1     | 92-6534    | 1    | Shell                     |
| 26:2     | 351-80     | 1    | Clip                      |
| 26:3     | 351-78     | 1    | Edging                    |
| 26:4     | 100-6411   | 1    | Cushion-Replacement       |
| 27       | 93-8067    | 1    | Decal-Oil, HYD            |
| 28       | 95-7113    | 1    | Decal-Service             |
| 28       | 95-7124    | 1    | Decal-Service (Spanish)   |
| 28       | 95-7125    | 1    | Decal-Service (French)    |
| 28       | 95-7126    | 1    | Decal-Service (German)    |
| 28       | 95-7127    | 1    | Decal-Service (Swedish)   |
| 28       | 95-7128    | 1    | Decal-Service (Italian)   |
| 28       | 95-7131    | 1    | Decal-Service (Finnish)   |
| 28       | 95-7130    | 1    | Decal-Service (Norwegian) |



Sheet No.: 9  
T-3363

## Seat Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description                |
|----------|----------|------|----------------------------|
| 28       | 95-7129  | 1    | Decal-,Service (Portugese) |
| 28       | 95-7132  | 1    | Decal-Service (Danish)     |
| 28       | 95-7133  | 1    | Decal-Service (Dutch)      |
| 28       | 95-7143  | 1    | Decal-Service (Japanese)   |

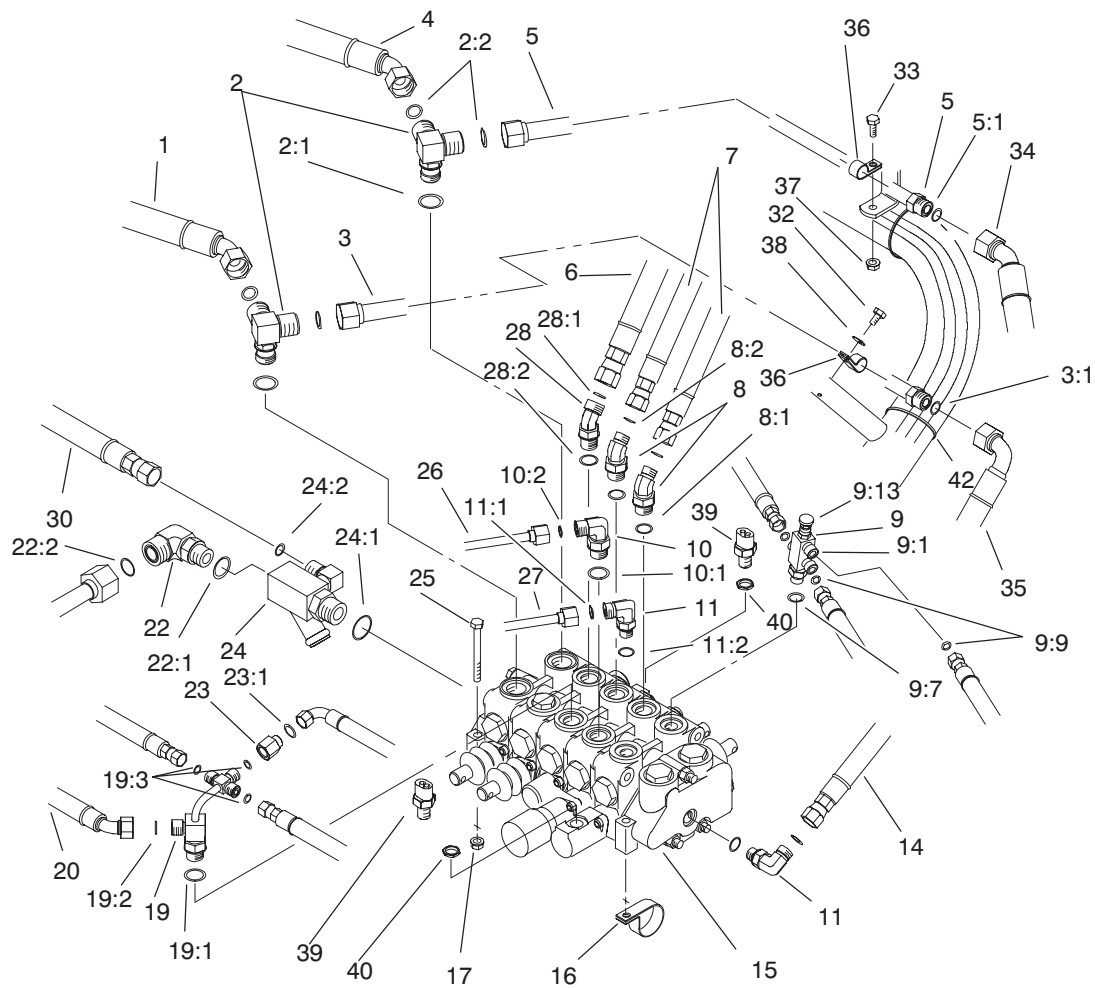


Sheet No.:10

## Control Valve Installation Assembly

| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 1        | 98-0647  | 1    | Hose-HYD          |
| 2        | 63-4050  | 2    | Fitting           |
| 2:1      | 237-80   | 1    | O-Ring            |
| 2:2      | 237-65   | 2    | O-Ring            |
| 3        | 70-7130  | 1    | Line-Tube         |
| 3:1      | 237-65   | 2    | O-Ring            |
| 4        | 98-0646  | 1    | Hose-Hydraulic    |
| 5        | 83-1200  | 1    | Tube-Traction, LH |
| 5:1      | 237-65   | 1    | O-Ring            |
| 6        | 98-2151  | 1    | Hose-HYD          |
| 7        | 98-0649  | 2    | Hose-HYD          |
| 8        | 340-138  | 2    | Fitting-HYD, 45°  |
| 8:1      | 237-79   | 1    | O-Ring            |
| 8:2      | 237-22   | 1    | O-Ring            |
| 9        | 93-2556  | 1    | Needle Valve ASM  |
| 9:1      | 93-2555  | 1    | Fitting-Body      |
| 9:7      | 237-42   | 1    | O-Ring            |
| 9:9      | 237-21   | 3    | O-Ring            |
| 9:13     | 93-2554  | 1    | Needle ASM        |
| 10       | 340-18   | 1    | Fitting-HYD, 90°  |
| 10:1     | 237-79   | 1    | O-Ring            |
| 10:2     | 237-22   | 1    | O-Ring            |
| 11       | 340-77   | 2    | Fitting-HYD, 90°  |
| 11:1     | 237-22   | 1    | O-Ring            |
| 11:2     | 237-42   | 1    | O-Ring            |

| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 14       | 98-2150  | 1    | Hose-HYD          |
| 15       | 105-3800 | 1    | Control Valve ASM |
| 16       | 304-61   | 1    | Clamp-Hose        |
| 17       | 32128-20 | 3    | Nut-HF            |
| 19       | 83-1670  | 1    | Fitting ASM       |
| 19:1     | 237-79   | 1    | O-Ring            |
| 19:2     | 237-22   | 1    | O-Ring            |
| 19:3     | 237-21   | 3    | O-Ring            |
| 20       | 95-5986  | 1    | Hose-HYD          |
| 22       | 340-16   | 1    | Fitting-HYD, 90°  |
| 22:1     | 237-80   | 1    | O-Ring            |
| 22:2     | 237-58   | 1    | O-Ring            |
| 23       | 71-0990  | 1    | Orifice           |
| 23:1     | 237-21   | 1    | O-Ring            |
| 24       | 63-4080  | 1    | Manifold Fitting  |
| 24:1     | 237-81   | 1    | O-Ring            |
| 24:2     | 237-30   | 1    | O-Ring            |
| 25       | 322-14   | 3    | Screw-HH          |
| 26       | 63-4030  | 1    | Tube-HYD          |
| 27       | 63-4020  | 1    | Tube-HYD          |
| 28       | 340-101  | 1    | Fitting-HYD, 90°  |
| 28:1     | 237-30   | 1    | O-Ring            |
| 28:2     | 237-79   | 1    | O-Ring            |
| 30       | 95-5987  | 1    | Hose-HYD          |
| 32       | 12-3270  | 1    | Screw             |
| 33       | 3234-4   | 1    | Screw-HHF         |

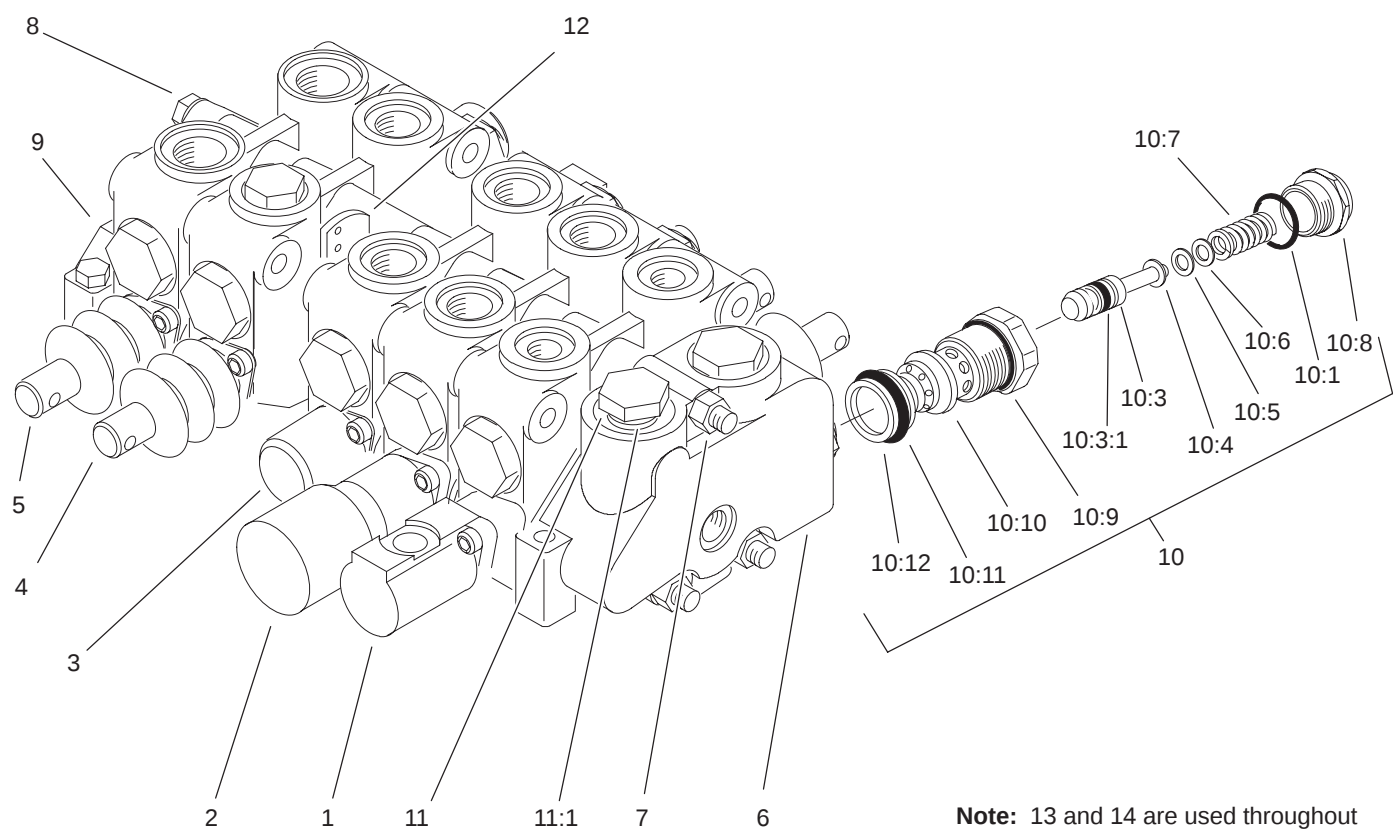


Sheet No.:10

## Control Valve Installation Assembly (Continued)

| Ref. No. | Part No. | Qty. | Description  |
|----------|----------|------|--------------|
| 34       | 98-0648  | 1    | HYD Hose ASM |
| 35       | 98-2153  | 1    | HYD Hose ASM |
| 36       | 2412-41  | 2    | Clamp        |
| 37       | 3296-16  | 1    | Nut-Lock, NI |
| 38       | 3256-22  | 1    | Washer-Flat  |
| 39       | 83-1890  | 2    | Switch-Ball  |
| 40       | 38-0410  | 2    | Nut-Hex      |
| 42       | 3290-379 | 2    | Tie-Cable    |

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



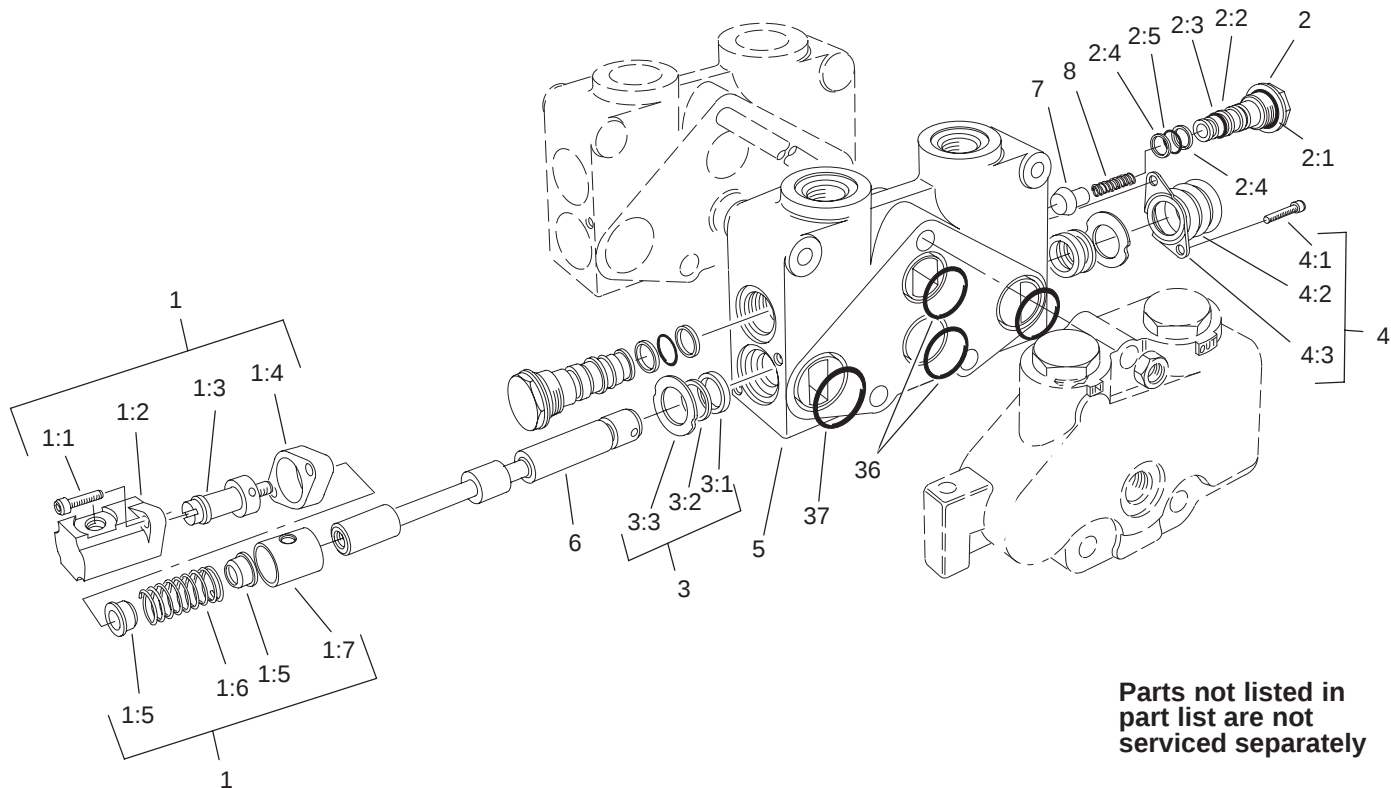
T-3794  
Sheet No.:A4

Control Valve Assembly No. 105-3800

| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 1        | 105-3801 | 1    | Section 1 ASM     |
| 2        | 105-3802 | 1    | Section 2 ASM     |
| 3        | 105-3803 | 1    | Section 3 ASM     |
| 4        | 105-3804 | 1    | Section 4 ASM     |
| 5        | 93-1386  | 1    | Section 5 ASM     |
| 6        | 353-772  | 1    | Cover-Left        |
| 7        | 3217-7   | 3    | Nut-Hex           |
| 8        | 353-853  | 3    | Bolt              |
| 9        | 353-668  | 1    | Plate-Cover       |
| 10       | 353-766  | 1    | Cart-Relief       |
| 10:1     | 237-54   | 1    | O-Ring            |
| 10:3     | 353-531  | 1    | Poppet & Ring ASM |
| 10:3:1   | 353-392  | 1    | Ring-Piston       |
| 10:4     | 353-328  | 1    | Shim (.040)       |
| 10:5     | 353-329  | 1    | Shim (.020)       |
| 10:6     | 353-330  | 1    | Shim (.010)       |
| 10:7     | 353-855  | 1    | Spring            |
| 10:8     | 353-334  | 1    | Cap-Relief        |
| 10:9     | 353-331  | 1    | O-Ring            |
| 10:10    | 353-760  | 1    | Relief-Body       |
| 10:11    | 353-758  | 1    | O-Ring            |
| 10:12    | 353-952  | 1    | Seal-Back-Up      |
| 11       | 353-721  | 2    | Plug              |
| 11:1     | 237-54   | 1    | O-Ring            |
| 12       | 354-122  | 1    | Disc-Seal         |

| Ref. No. | Part No. | Qty. | Description      |
|----------|----------|------|------------------|
| *13      | 92-2545  | 1    | Spool Set Kit    |
| *14      | 84-2190  | 1    | Section Seal Kit |

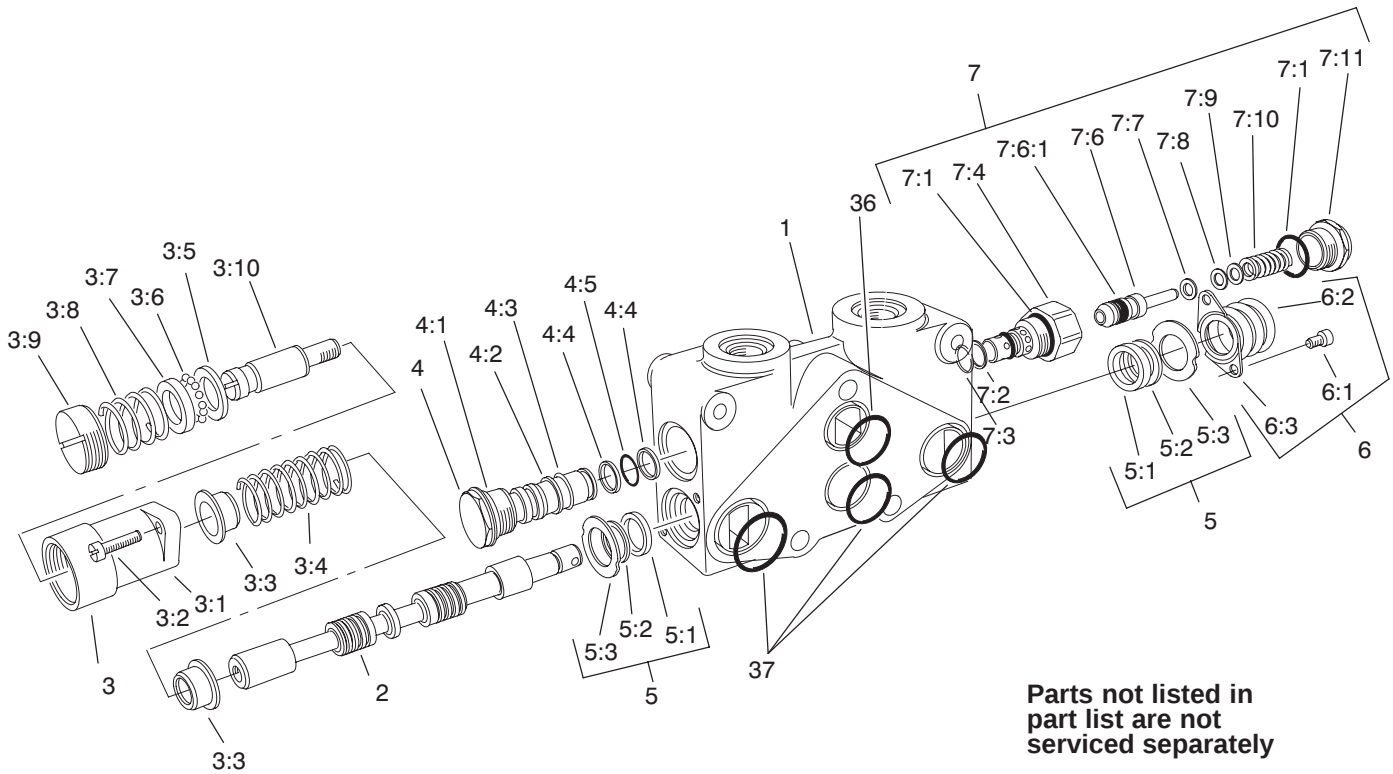
\* Not illustrated



T-3777  
Sheet No.:A5

## Section 1 Assembly No. 105-3801

| Ref. No. | Part No. | Qty. | Description          | Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|----------------------|----------|----------|------|-------------|
| 1        | 105-3807 | 1    | Positioner-Interlock |          |          |      |             |
| 1:1      | 3274-70  | 2    | Screw-HSH            |          |          |      |             |
| 1:2      | 353-727  | 1    | Bonnet-Special       |          |          |      |             |
| 1:3      | 104-7739 | 1    | Spud-V20             |          |          |      |             |
| 1:4      | 353-733  | 1    | Spacer-Bonnet        |          |          |      |             |
| 1:5      | 353-417  | 2    | Collar-Stop          |          |          |      |             |
| 1:6      | 104-7741 | 1    | Spring               |          |          |      |             |
| 1:7      | 353-728  | 1    | Sleeve               |          |          |      |             |
| 2        | 353-481  | 2    | Lift Check ASM       |          |          |      |             |
| 2:1      | 237-54   | 1    | O-Ring               |          |          |      |             |
| 2:2      | 353-306  | 1    | Washer-Backup        |          |          |      |             |
| 2:3      | 353-305  | 1    | O-Ring               |          |          |      |             |
| 2:4      | 353-303  | 2    | Washer-Backup        |          |          |      |             |
| 2:5      | 353-302  | 1    | O-Ring               |          |          |      |             |
| 3        | 92-2548  | 2    | Kit-Set, Spool       |          |          |      |             |
| 3:1      | 353-957  | 1    | Cup-Seal             |          |          |      |             |
| 3:2      | 92-2546  | 1    | Wiper-Seal           |          |          |      |             |
| 3:3      | 92-2547  | 1    | Seal-Retainer        |          |          |      |             |
| 4        | 93-3652  | 1    | Boot-Dust            |          |          |      |             |
| 4:1      | 3274-52  | 2    | Screw-HSH            |          |          |      |             |
| 4:2      | 353-575  | 1    | Boot                 |          |          |      |             |
| 4:3      | 93-3651  | 1    | Retainer-Boot        |          |          |      |             |
| 7        | 353-301  | 1    | Check-Lift, Poppet   |          |          |      |             |
| 8        | 353-304  | 1    | Spring-Check, Lift   |          |          |      |             |



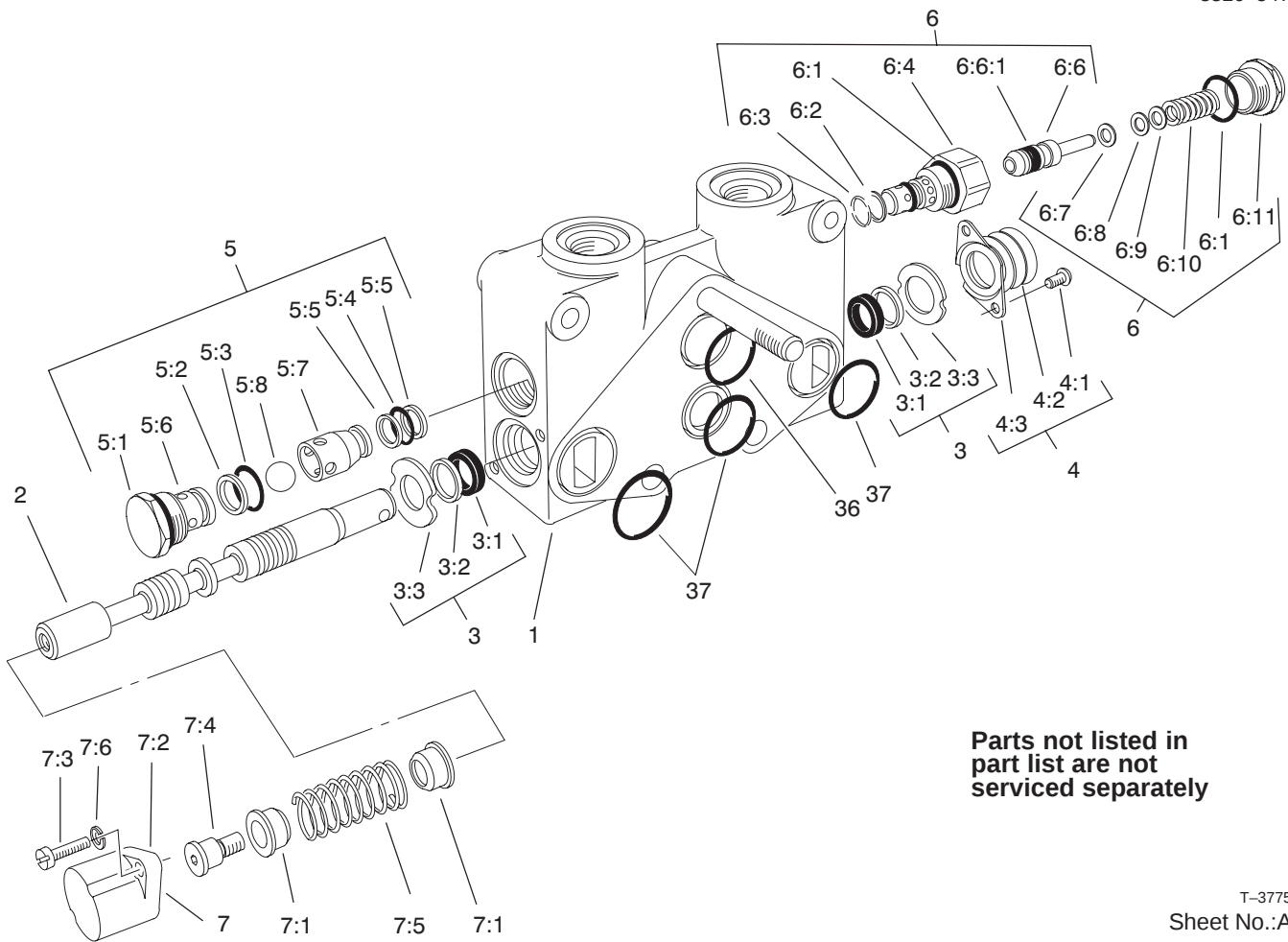
T-3778

Sheet No.:A6

## Section 2 Assembly No. 105-3802

| Ref. No. | Part No. | Qty. | Description      |
|----------|----------|------|------------------|
| 3        | 105-3806 | 1    | Positioner       |
| 3:1      | 99-8181  | 1    | Bonnet-R         |
| 3:2      | 3274-15  | 2    | Screw-HSH        |
| 3:3      | 353-417  | 2    | Collar-Stop      |
| 3:4      | 104-7741 | 1    | Spring           |
| 3:5      | 354-29   | 1    | Plate-Trust      |
| 3:6      | 52-5880  | 12   | Ball-Detent      |
| 3:7      | 42-2680  | 1    | Race-Ball        |
| 3:8      | 104-7727 | 1    | Spring-Detent    |
| 3:9      | 353-763  | 1    | Cap-Adjustment   |
| 3:10     | 353-762  | 1    | Spud-Out         |
| 4        | 353-481  | 1    | Lift Check ASM   |
| 4:1      | 237-54   | 1    | O-Ring           |
| 4:2      | 353-306  | 1    | Washer-Backup    |
| 4:3      | 353-305  | 1    | O-Ring           |
| 4:4      | 353-303  | 2    | Washer-Backup    |
| 4:5      | 353-302  | 1    | O-Ring           |
| 5        | 92-2548  | 2    | Kit-Set, Spool   |
| 5:1      | 353-957  | 1    | Cup-Seal         |
| 5:2      | 92-2546  | 1    | Wiper-Seal       |
| 5:3      | 92-2547  | 1    | Seal-Retainer    |
| 6        | 93-3652  | 1    | Boot-Dust        |
| 6:1      | 3274-52  | 2    | Screw-HSH        |
| 6:2      | 353-575  | 1    | Boot             |
| 6:3      | 93-3651  | 1    | Retainer-Boot    |
| 7        | 353-642  | 1    | Cartridge-Relief |

| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 7:1      | 237-54   | 2    | O-Ring            |
| 7:2      | 353-306  | 1    | Washer-Backup     |
| 7:3      | 353-305  | 1    | O-Ring            |
| 7:4      | 353-851  | 1    | Body-Relief       |
| 7:6      | 353-531  | 1    | Poppet & Ring ASM |
| 7:6:1    | 353-392  | 1    | Ring-Piston       |
| 7:7      | 353-328  | 1    | Shim (.040)       |
| 7:8      | 353-329  | 1    | Shim (.020)       |
| 7:9      | 353-330  | 1    | Shim (.010)       |
| 7:10     | 353-398  | 1    | Spring            |
| 7:11     | 353-334  | 1    | Cap-Relief        |

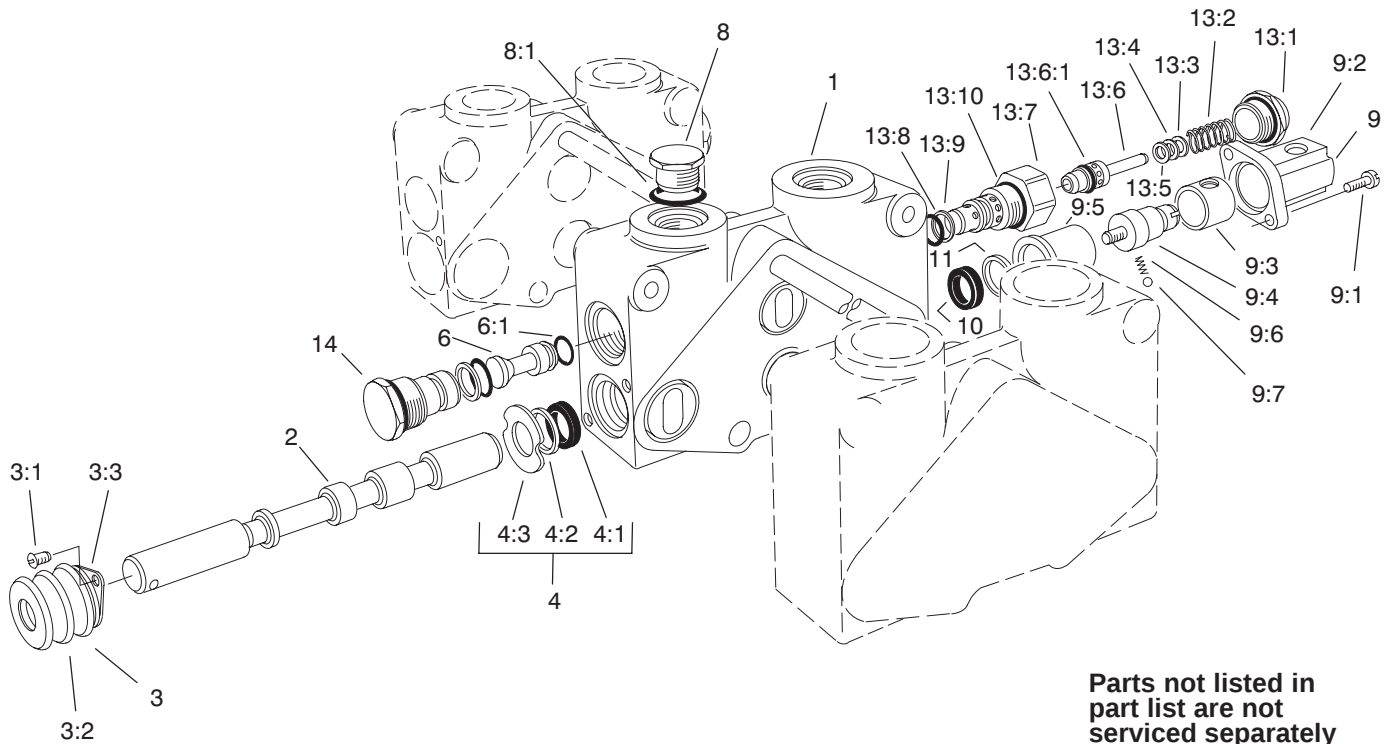


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Sheet No.:A7

## Section 3 Assembly No. 105-3803

| Ref. No. | Part No. | Qty. | Description                 |
|----------|----------|------|-----------------------------|
| 3        | 92-2548  | 2    | Kit-Set, Spool              |
| 3:1      | 353-957  | 1    | Cup-Seal                    |
| 3:2      | 92-2546  | 1    | Wiper-Seal                  |
| 3:3      | 92-2547  | 1    | Seal-Retainer               |
| 4        | 93-3652  | 1    | Boot-Dust                   |
| 4:1      | 3274-52  | 2    | Screw-HSH                   |
| 4:2      | 353-575  | 1    | Boot                        |
| 4:3      | 93-3651  | 1    | Retainer-Boot               |
| 5        | 354-129  | 1    | Anticavitation Check<br>ASM |
| 5:1      | 237-54   | 1    | O-Ring                      |
| 5:2      | 353-306  | 1    | Washer-Backup               |
| 5:3      | 353-305  | 1    | O-Ring                      |
| 5:4      | 353-302  | 1    | O-Ring                      |
| 5:5      | 353-303  | 2    | Washer-Backup               |
| 5:6      | 353-483  | 1    | Body-Check                  |
| 5:7      | 353-484  | 1    | Return-Ball, Check          |
| 5:8      | 353-737  | 1    | Ball-Check                  |
| 6        | 353-642  | 1    | Cartridge-Relief            |
| 6:1      | 237-54   | 2    | O-Ring                      |
| 6:2      | 353-306  | 1    | Washer-Backup               |
| 6:3      | 353-305  | 1    | O-Ring                      |
| 6:4      | 353-851  | 1    | Body-Relief                 |
| 6:6      | 353-531  | 1    | Poppet & Ring ASM           |
| 6:6:1    | 353-392  | 1    | Ring-Piston                 |
| 6:7      | 353-328  | 1    | Shim (.040)                 |

| Ref. No. | Part No. | Qty. | Description                 |
|----------|----------|------|-----------------------------|
| 6:8      | 353-329  | 1    | Shim (.020)                 |
| 6:9      | 353-330  | 1    | Shim (.010)                 |
| 6:10     | 353-398  | 1    | Spring                      |
| 6:11     | 353-334  | 1    | Cap-Relief                  |
| 7        | 105-3808 | 1    | Positioner-Spring<br>Return |
| 7:1      | 353-417  | 2    | Collar-Stop                 |
| 7:2      | 99-6895  | 1    | Bonnet                      |
| 7:3      | 52-5900  | 2    | Screw                       |
| 7:4      | 52-5860  | 1    | Collar-Spool                |
| 7:5      | 104-7741 | 1    | Spring                      |
| 7:6      | 3253-3   | 2    | Washer-Lock                 |

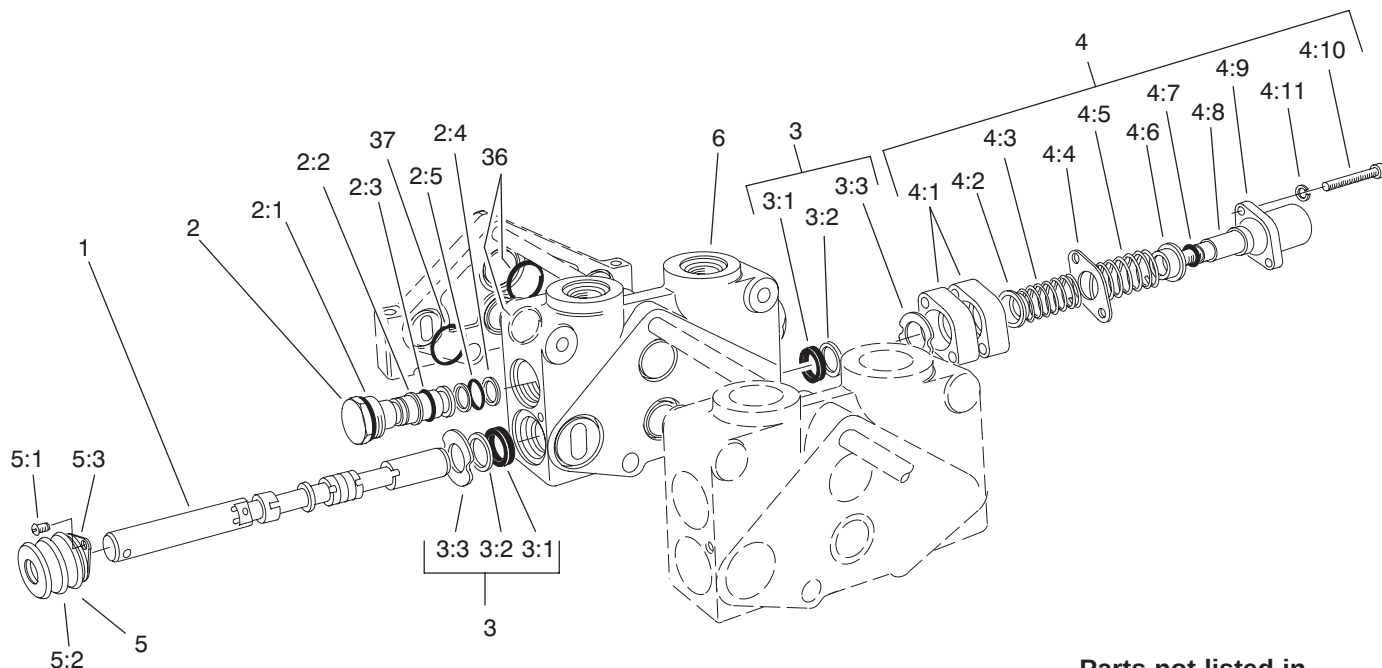


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Sheet No.:A8

## Section 4 Assembly No. 105-3804

| Ref. No. | Part No. | Qty. | Description    |
|----------|----------|------|----------------|
| 3        | 93-3652  | 1    | Boot-Dust      |
| 3:1      | 3274-52  | 2    | Screw-HSH      |
| 3:2      | 353-575  | 1    | Boot           |
| 3:3      | 93-3651  | 1    | Retainer-Boot  |
| 4        | 92-2548  | 1    | Kit-Set, Spool |
| 4:1      | 353-957  | 1    | Cup-Seal       |
| 4:2      | 92-2546  | 1    | Wiper-Seal     |
| 4:3      | 92-2547  | 1    | Seal-Retainer  |
| 6        | 353-844  | 1    | Plug           |
| 6:1      | 353-850  | 1    | O-Ring         |
| 8        | 353-550  | 1    | Plug-HYD       |
| 8:1      | 237-79   | 1    | O-Ring         |
| 9        | 353-840  | 1    | Bonnet ASM     |
| 9:1      | 52-5900  | 2    | Screw          |
| 9:2      | 353-847  | 1    | Bonnet         |
| 9:3      | 353-849  | 1    | Sleeve         |
| 9:4      | 353-846  | 1    | Spud           |
| 9:5      | 353-845  | 1    | Sleeve-Detent  |
| 9:6      | 353-730  | 1    | Spring         |
| 9:7      | 353-731  | 1    | Ball           |
| 10       | 353-957  | 1    | Cup-Seal       |
| 11       | 353-958  | 1    | Washer         |
| 13       | 354-140  | 1    | Relief-Rcm     |
| 13:1     | 353-334  | 1    | Cap-Relief     |
| 13:2     | 353-398  | 1    | Spring         |
| 13:3     | 353-330  | 1    | Shim (.010)    |

| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 13:4     | 353-329  | 1    | Shim (.020)       |
| 13:5     | 353-328  | 1    | Shim (.040)       |
| 13:6     | 353-531  | 1    | Poppet & Ring ASM |
| 13:6:1   | 353-392  | 1    | Ring-Piston       |
| 13:7     | 353-851  | 1    | Body-Relief       |
| 13:8     | 353-305  | 1    | O-Ring            |
| 13:9     | 353-306  | 1    | Washer-Backup     |
| 13:10    | 237-54   | 2    | O-Ring            |
| 14       | 353-953  | 1    | Plug ASM          |

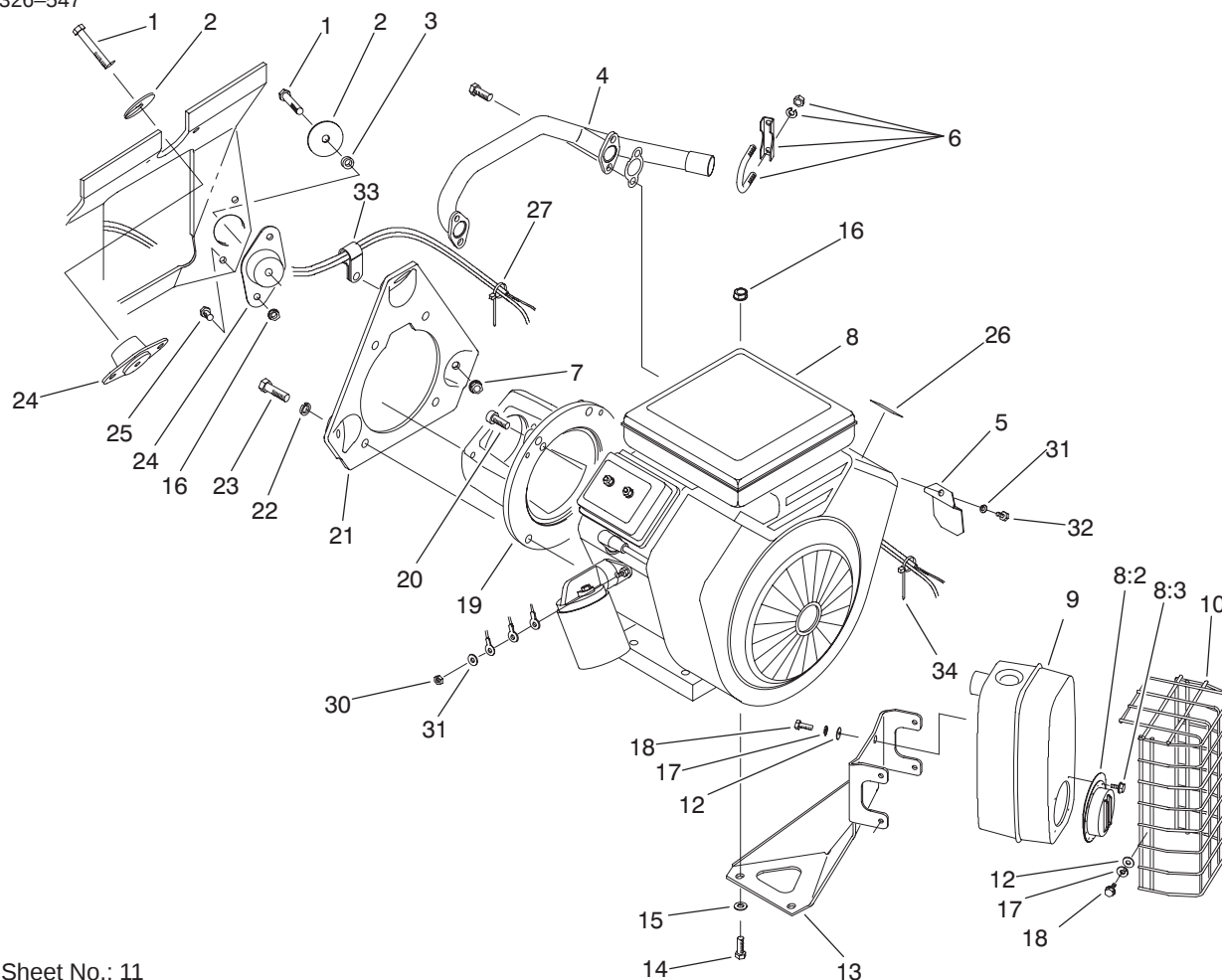


Parts not listed in  
part list are not  
serviced separately

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Sheet No.:A9

## Section 5 Assembly No. 93-1386

| Ref. No. | Part No. | Qty. | Description          | Ref. No. | Part No. | Qty. | Description   |
|----------|----------|------|----------------------|----------|----------|------|---------------|
| 1        | 94-5434  | 1    | Spool                | 5:2      | 353-575  | 1    | Boot          |
| 2        | 353-481  | 2    | Lift Check ASM       | 5:3      | 93-3651  | 1    | Retainer-Boot |
| 2:1      | 237-54   | 1    | O-Ring               |          |          |      |               |
| 2:2      | 353-306  | 1    | Washer-Backup        |          |          |      |               |
| 2:3      | 353-305  | 1    | O-Ring               |          |          |      |               |
| 2:4      | 353-303  | 2    | Washer-Backup        |          |          |      |               |
| 2:5      | 353-302  | 1    | O-Ring               |          |          |      |               |
| 3        | 92-2548  | 2    | Kit-Set, Spool       |          |          |      |               |
| 3:1      | 353-957  | 1    | Cup-Seal             |          |          |      |               |
| 3:2      | 92-2546  | 1    | Wiper-Seal           |          |          |      |               |
| 3:3      | 92-2547  | 1    | Seal-Retainer        |          |          |      |               |
| 4        | 353-833  | 1    | Positioner ASM       |          |          |      |               |
| 4:1      | 353-733  | 2    | Spacer-Bonnet        |          |          |      |               |
| 4:2      | 353-417  | 1    | Collar-Stop          |          |          |      |               |
| 4:3      | 353-831  | 1    | Spring               |          |          |      |               |
| 4:4      | 353-529  | 1    | Plate-Retainer, Seal |          |          |      |               |
| 4:5      | 92-3148  | 1    | Spring-Traction      |          |          |      |               |
| 4:6      | 353-808  | 1    | Collar-Spring        |          |          |      |               |
| 4:7      | 353-830  | 1    | O-Ring               |          |          |      |               |
| 4:8      | 94-4248  | 1    | Collar-Spool         |          |          |      |               |
| 4:9      | 99-6895  | 1    | Bonnet               |          |          |      |               |
| 4:10     | 354-28   | 2    | Screw-HS             |          |          |      |               |
| 4:11     | 3253-4   | 2    | Washer-Lock          |          |          |      |               |
| 5        | 93-3652  | 1    | Boot-Dust            |          |          |      |               |
| 5:1      | 3274-52  | 2    | Screw-HSH            |          |          |      |               |

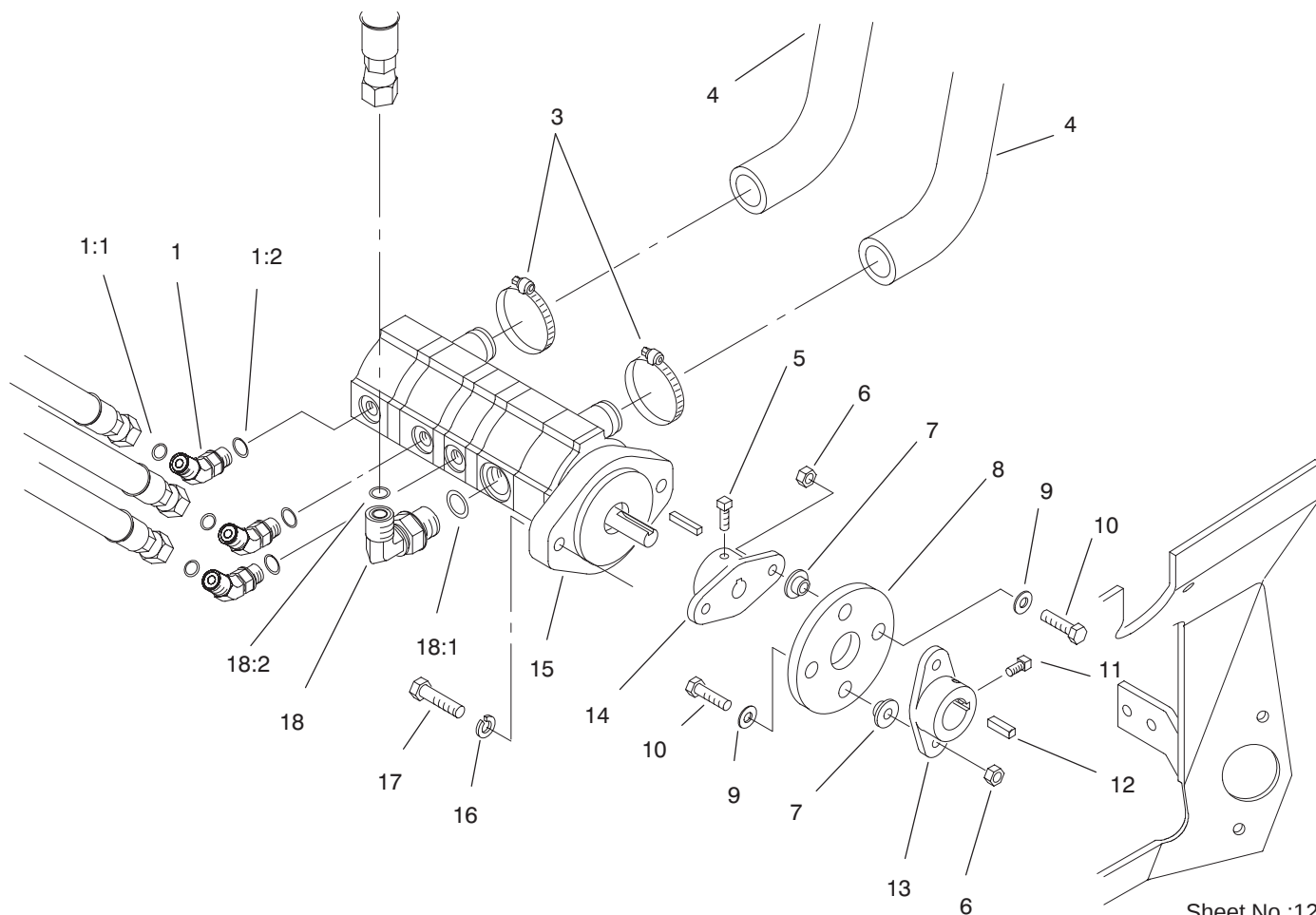


Sheet No.: 11

## Engine Installation Assembly

| Ref. No. | Part No.   | Qty. | Description                  |
|----------|------------|------|------------------------------|
| 1        | 323-12     | 3    | Screw-HH                     |
| 2        | 83-1040    | 3    | Washer-Flat                  |
| 3        | 83-1050    | 2    | Spacer                       |
| 4        | 83-1080    | 1    | Exhaust Manifold ASM         |
| 5        | 83-2310    | 1    | Shield-Regulator             |
| 6        | 2112-11    | 1    | Clamp-Muffler                |
| 7        | 3290-357   | 3    | Nut-Flange, Lock             |
| 8        | 100-6424   | 1    | Engine-B&s<br>303447-1408-E1 |
| 8:2      | 83-2220    | 1    | Deflector-Exhaust            |
| 8:3      | 83-2230    | 4    | Screw-HH                     |
| 9        | 98-0616    | 1    | Muffler ASM                  |
| 10       | 83-1400-03 | 1    | Shield-Muffler               |
| 12       | 3256-1     | 8    | Washer-Flat                  |
| 13       | 83-1630-03 | 1    | Bracket-Support,<br>Muffler  |
| 14       | 322-8      | 2    | Screw-HH                     |
| 15       | 3256-23    | 2    | Washer-Flat                  |
| 16       | 32128-20   | 8    | Nut-HF                       |
| 17       | 3253-3     | 8    | Washer-Lock                  |
| 18       | 49-2040    | 8    | Screw-Tapping                |
| 19       | 83-1060-03 | 1    | Adapter-Pump                 |
| 20       | 3274-7     | 2    | Screw-HSH                    |
| 21       | 85-8120-03 | 1    | Plate-Mount, Engine          |
| 22       | 3253-6     | 4    | Washer-Lock                  |
| 23       | 324-7      | 4    | Screw-HH                     |

| Ref. No. | Part No.  | Qty. | Description        |
|----------|-----------|------|--------------------|
| 24       | 83-1030   | 3    | Mount-Engine       |
| 25       | 322-3     | 6    | Screw-HH           |
| 26       | 93-8069   | 1    | Decal-Surface, Hot |
| 27       | 3290-379  | 1    | Tie-Cable          |
| 30       | 43-2830   | 1    | Nut-Hex            |
| 31       | 43-5930   | 2    | Washer-Spring      |
| 32       | 33113-016 | 1    | Screw-HH           |
| 33       | 2412-81   | 1    | Clamp              |
| 34       | 3290-378  | 2    | Tie-Cable          |



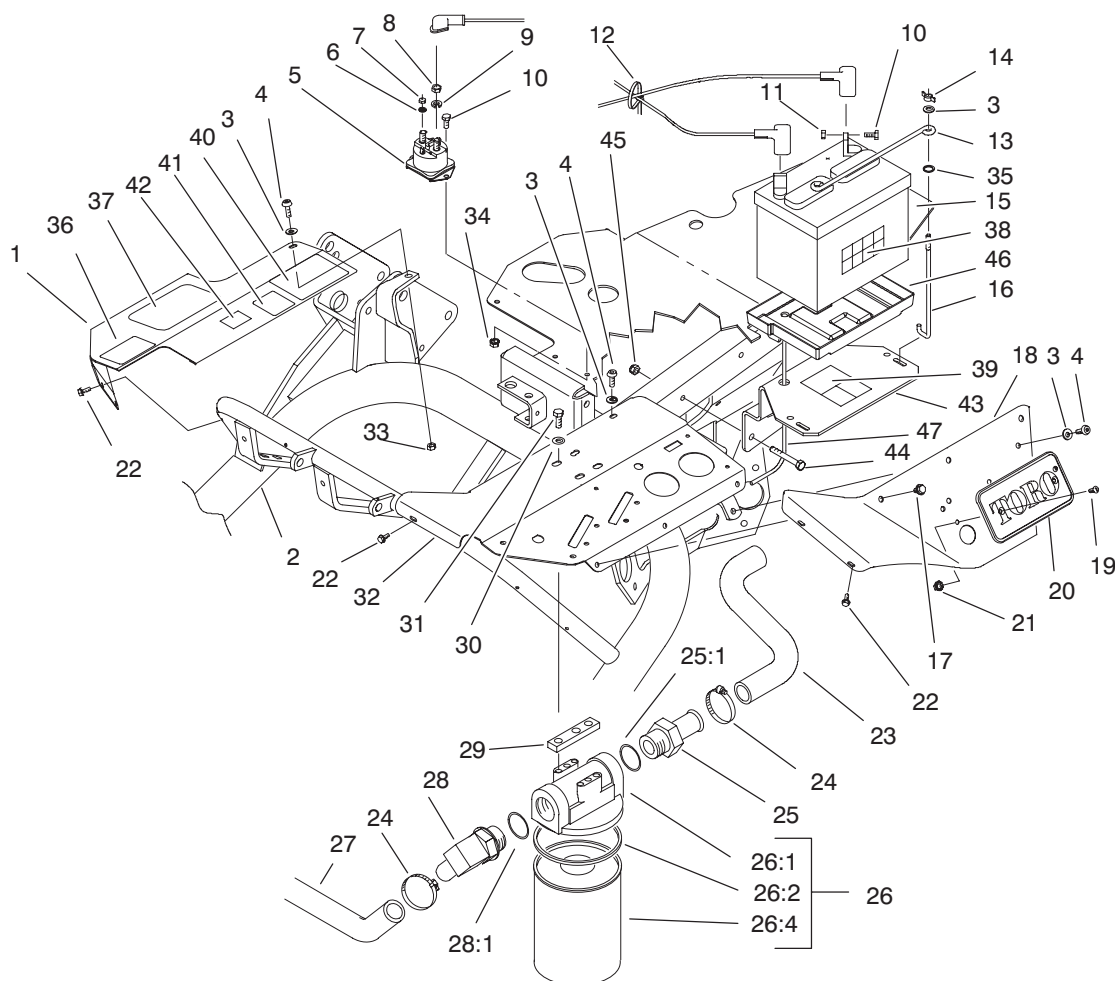
Sheet No.:12

# Hydraulic Pump Installation Assembly

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 1        | 340-87   | 3    | Fitting-HYD, 45°     |
| 1:1      | 237-22   | 1    | O-Ring               |
| 1:2      | 237-42   | 1    | O-Ring               |
| 3        | 2412-34  | 2    | Clamp-Hose           |
| 4        | 95-5966  | 2    | Hose-Pump Inlet      |
| 5        | 3241-6   | 2    | Screw-SQH            |
| 6        | 3296-29  | 4    | Nut-Lock NI          |
| 7        | 27-6600  | 4    | Spacer-Coupling      |
| 8        | 44-2230  | 1    | Coupling-Rubber      |
| 9        | 3256-23  | 4    | Washer-Flat          |
| 10       | 322-6    | 4    | Screw-HH             |
| 11       | 3241-2   | 2    | Screw-SQH            |
| 12       | 10-7070  | 1    | Key-Square           |
| 13       | 27-1960  | 1    | Hub-Engine           |
| 14       | 27-1970  | 1    | Hub-Pump             |
| 15       | 95-5976  | 1    | Pump-Gear, 4 Section |
| 16       | 3253-21  | 2    | Washer-Lock          |
| 17       | 323-8    | 2    | Screw-HH             |
| 18       | 340-105  | 1    | Fitting-90°          |
| 18:1     | 237-80   | 1    | O-Ring               |
| 18:2     | 237-30   | 1    | O-Ring               |

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

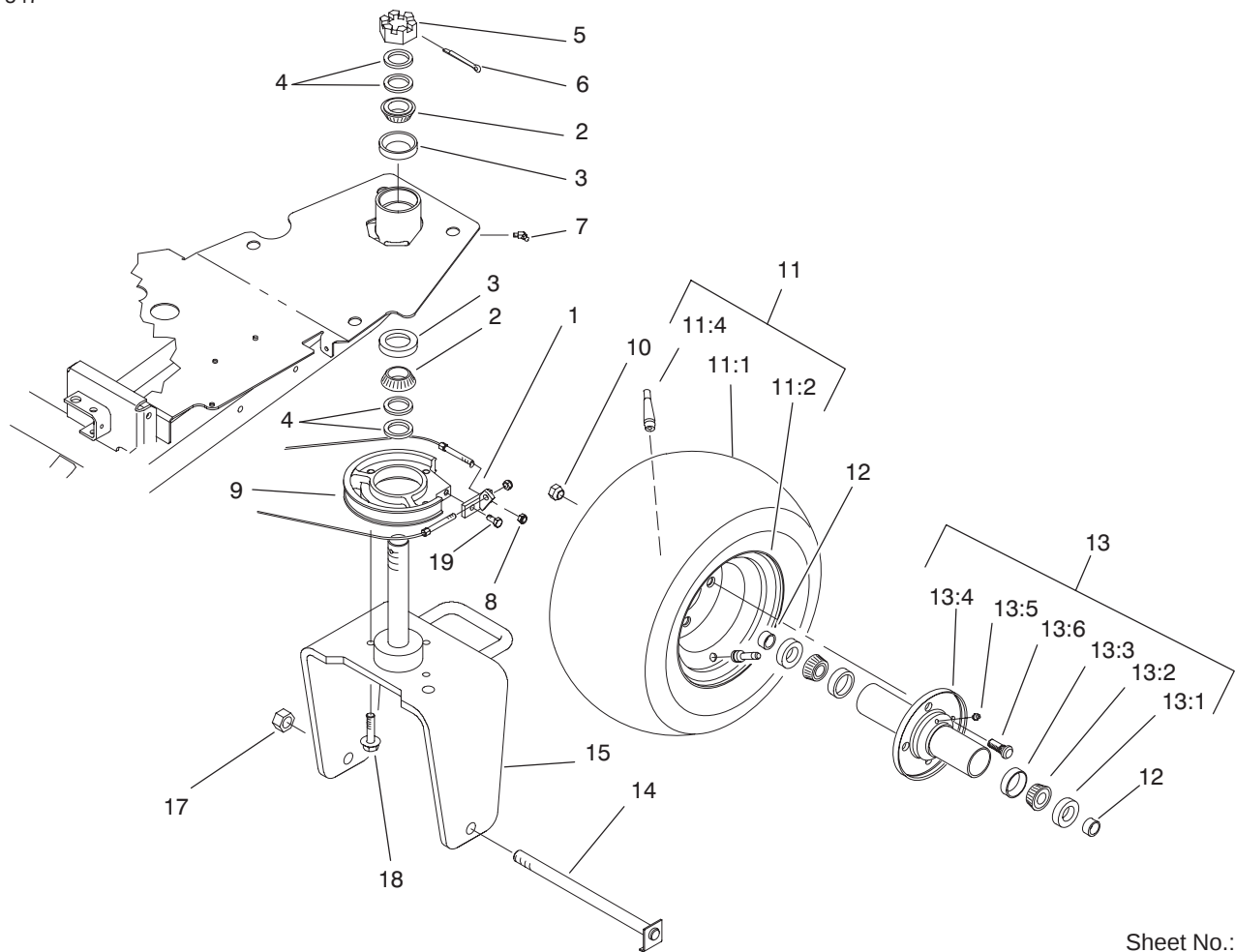




Sheet No.:13

## Frame Assembly

| Ref. No. | Part No.   | Qty. | Description           | Ref. No. | Part No.    | Qty. | Description          |
|----------|------------|------|-----------------------|----------|-------------|------|----------------------|
| 1        | 94-2694-01 | 1    | Cover-RH              | 26       | 74-3600     | 1    | Filter & Head ASM    |
| 2        | 95-5981-01 | 1    | Frame ASM             | 26:1     | 44-5560     | 1    | Head-Filter, Oil     |
| 3        | 3256-22    | 3    | Washer-Flat           | 26:2     | 72-3850     | 1    | Seal-Filter, Oil     |
| 4        | 3274-69    | 3    | Screw-HSBH            | 26:4     | 74-3570     | 1    | Filter               |
| 5        | 28-4210    | 1    | Solenoid              | 27       | 68-5880     | 1    | Hose-HYD             |
| 6        | 3254-1     | 2    | Washer-Lock, Internal | 28       | 353-564     | 1    | Fitting-90°          |
| 7        | 3219-14    | 2    | Nut-Hex               | 28:1     | 237-101     | 1    | O-Ring               |
| 8        | 3218-13    | 2    | Nut-Jam               | 29       | 27-2380     | 2    | Spacer               |
| 9        | 3253-4     | 2    | Washer-Lock           | 30       | 3256-23     | 4    | Washer-Flat          |
| 10       | 321-3      | 4    | Screw-HH              | 31       | 322-4       | 4    | Screw-HH             |
| 11       | 3217-5     | 2    | Nut-Hex               | 32       | 83-0830-01  | 1    | Panel-Control, Upper |
| 12       | 3290-378   | 1    | Tie-Cable             | 33       | 3296-16     | 1    | Nut-Lock, NI         |
| 13       | 100-6434   | 1    | Hold Down-Battery     | 34       | 32149-2     | 2    | Nut                  |
| 14       | 32103-22   | 2    | Nut-Wing              | 35       | 237-143     | 2    | O-Ring               |
| 15       | 92-1677    | 1    | Battery-Dry           | 36       | 93-8065     | 1    | Decal-Traction       |
| 16       | 100-6435   | 2    | Post-Battery          | 37       | 67-1300     | 1    | Decal-Toro           |
| 17       | 46-8560    | 3    | Screw-HHF             | 38       | 93-7276     | 1    | Decal-Danger         |
| 18       | 83-0840-01 | 1    | Shield-Cover, Valve   | 39       | 93-6668     | 1    | Decal-Battery        |
| 19       | 3290-470   | 2    | Screw-HSFH            | 40       | 92-5524     | 1    | Decal-Rating, Noise  |
| 20       | 61-3310    | 1    | Plate-Logo            | 41       | 63-9920     | 1    | Decal-Level, Noise   |
| 21       | 32149-7    | 2    | Nut-Keps              | 42       | 93-7252     | 1    | Decal-International  |
| 22       | 32104-116  | 5    | Screw                 | 43       | 104-2064-03 | 1    | Battery Base ASM     |
| 23       | 95-7119    | 1    | Hose-Return Line      | 44       | 322-11      | 2    | Screw-HH             |
| 24       | 2412-34    | 3    | Clamp-Hose            | 45       | 3296-29     | 2    | Nut-Lock NI          |
| 25       | 353-563    | 1    | Fitting-HYD, Straight | 46       | 106948      | 1    | Tray-Battery         |
| 25:1     | 237-101    | 1    | O-Ring                | 47       | 98-0601     | 1    | Tube-Battery Drain   |



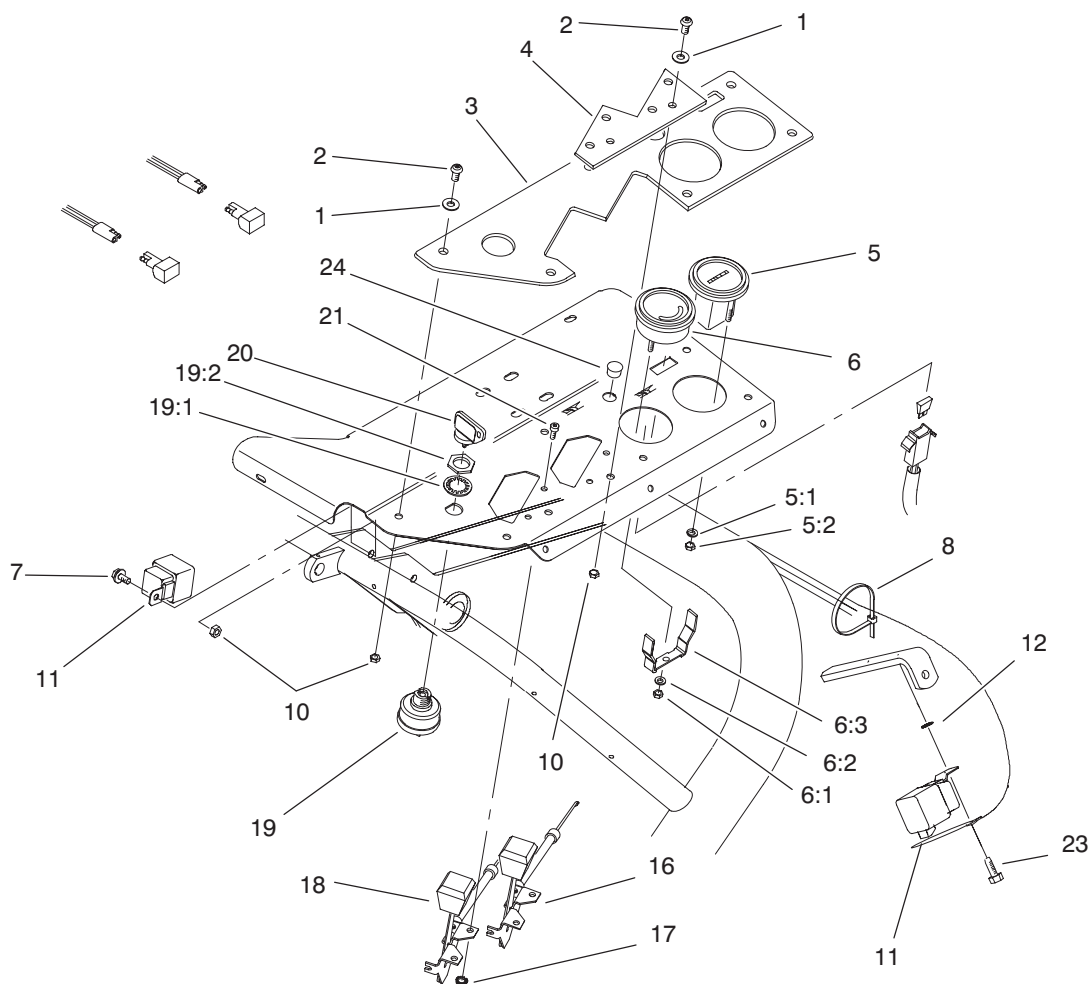
Sheet No.:14

## Rear Wheel Assembly

| Ref. No. | Part No.   | Qty. | Description          |
|----------|------------|------|----------------------|
| 1        | 95-5956    | 1    | Cable Anchor ASM     |
| 2        | 254-70     | 2    | Bearing-Cone         |
| 3        | 254-61     | 2    | Bearing-Cup          |
| 4        | 18-6320    | 4    | Washer-Steering      |
| 5        | 32136-9    | 1    | Nut-Hex, Slot        |
| 6        | 3272-37    | 1    | Pin-Cotter           |
| 7        | 302-11     | 1    | Fitting-Lube 45°     |
| 8        | 3296-4     | 2    | Nut-Lock, NI         |
| 9        | 95-5955-01 | 1    | Drum-Steering        |
| 10       | 242-50     | 4    | Nut-Lug              |
| ☆11      |            | 1    | Wheel & Tire ASM     |
| 11:1     | 28-3680    | 1    | Tire                 |
| 11:2     | 217-60     | 1    | Rim                  |
| 11:4     | 232-24     | 1    | Stem-Valve           |
| *11:5    | 232-37     | 1    | Tube                 |
| 12       | 74-3730    | 2    | Spacer-Spindle, Rear |
| 13       | 72-9710    | 1    | Hub-Tire, Sulky      |
| 13:1     | 253-111    | 2    | Seal-Oil             |
| 13:2     | 254-78     | 2    | Bearing-Cone         |
| 13:3     | 254-79     | 2    | Bearing-Roller, Cup  |
| 13:4     | 75-9440    | 1    | Hub ASM              |
| 13:5     | 302-55     | 1    | Zerk                 |
| 13:6     | 10-6830    | 4    | Stud-Type, Drive     |
| 14       | 5-3934     | 1    | Bolt-Caster          |
| 15       | 95-5952-01 | 1    | Fork-Caster          |
| 17       | 3296-67    | 1    | Nut-Lock NI          |

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 18       | 3234-24  | 3    | Screw-HHF   |
| 19       | 322-3    | 1    | Screw-HH    |

☆ Not serviced  
 \* Not illustrated

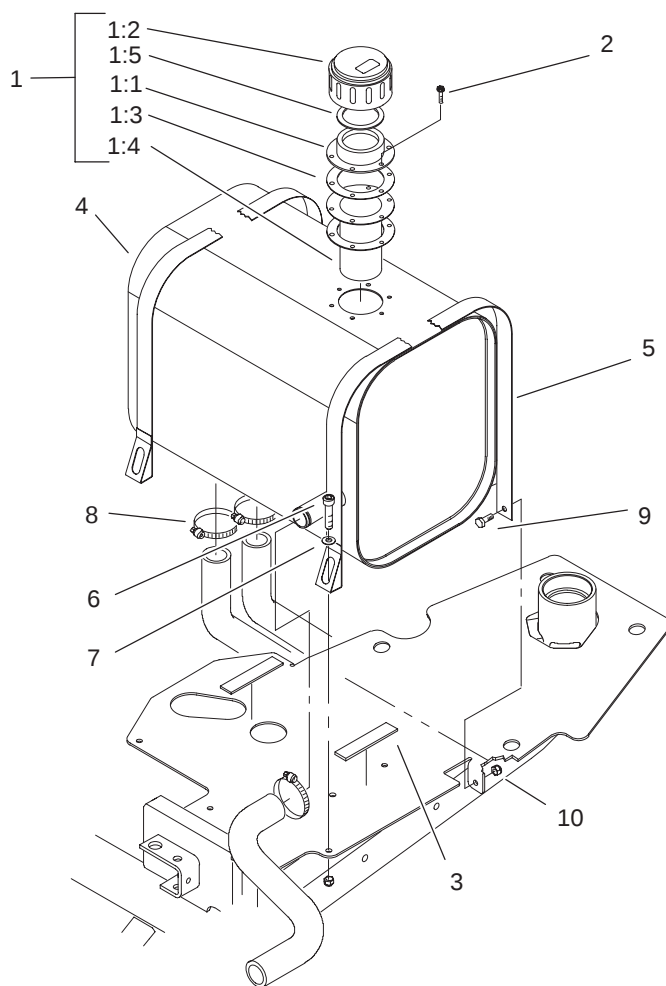


Sheet No.:15

## Instrument Panel Assembly

| Ref. No. | Part No. | Qty. | Description           |
|----------|----------|------|-----------------------|
| 1        | 3256-1   | 8    | Washer-Flat           |
| 2        | 3274-69  | 8    | Screw-HSBH            |
| 3        | 93-8061  | 1    | Panel-Control         |
| 4        | 83-2030  | 1    | Plate-Filler          |
| 5        | 66-2950  | 1    | Gauge-Hourmeter       |
| 5:1      | 3255-20  | 2    | Washer-Lock           |
| 5:2      | 3217-25  | 2    | Nut-Hex               |
| 6        | 98-2160  | 1    | Voltmeter             |
| 6:1      | 3217-27  | 1    | Nut-Hex               |
| 6:2      | 3255-25  | 1    | Washer-Lock           |
| 6:3      | 78-0080  | 1    | Clamp-Mounting        |
| 7        | 321-4    | 1    | Screw-HH              |
| 8        | 3290-378 | 3    | Tie-Cable             |
| 10       | 3296-16  | 9    | Nut-Lock, NI          |
| 11       | 70-1480  | 2    | Relay                 |
| 12       | 3255-7   | 1    | Washer-Lock/Ext       |
| 16       | 83-0040  | 1    | Control-Choke         |
| 17       | 3296-27  | 4    | Nut-Lock NI           |
| 18       | 83-0030  | 1    | Control-Throttle      |
| 19       | 88-9830  | 1    | Key Switch ASM        |
| 19:1     | 3254-5   | 1    | Washer-Lock, Internal |
| 19:2     | 218-461  | 1    | Nut-HH                |
| 20       | 63-8360  | 2    | Key-Ignition          |
| 21       | 3273-26  | 4    | Screw-HSH             |
| 23       | 32104-95 | 1    | Screw-HWH             |
| 24       | 2410-64  | 1    | Plug-Button           |

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

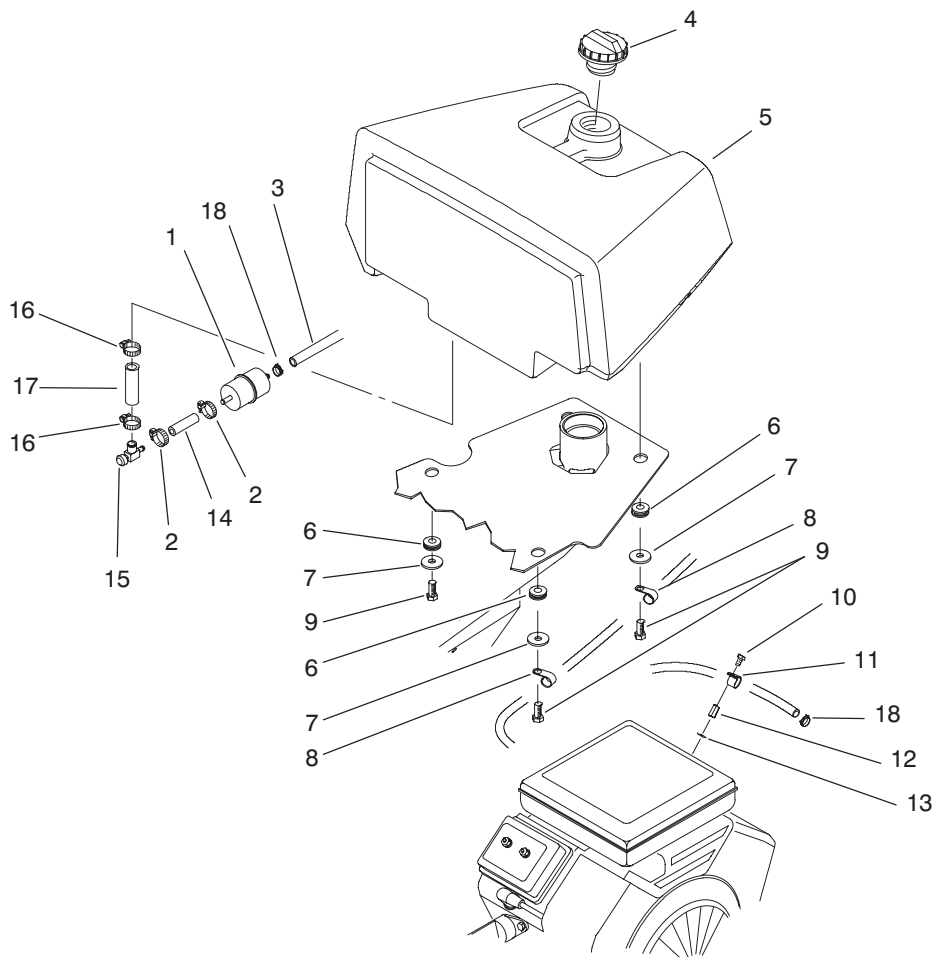


Sheet No.:16

## Hydraulic Reservoir Assembly

| Ref. No. | Part No. | Qty. | Description              |
|----------|----------|------|--------------------------|
| 1        | 62-2570  | 1    | Filler Cap ASM           |
| 1:1      | 353-961  | 1    | Flange                   |
| 1:2      | 353-962  | 1    | Cap Assembly             |
| 1:3      | 353-963  | 2    | Gasket                   |
| 1:4      | 62-2610  | 1    | Strainer-Cap, Filler     |
| 1:5      | 76-1720  | 1    | Gasket-Filler Cap        |
| 2        | 32144-34 | 6    | Screw-Forming,<br>Thread |
| 3        | 95-5951  | 2    | Strip-Seal               |
| 4        | 95-7118  | 1    | Tank-Hydraulic           |
| 5        | 27-2400  | 2    | Reservoir Strap ASM      |
| 6        | 3274-19  | 2    | Screw-HSH                |
| 7        | 3256-22  | 2    | Washer-Flat              |
| 8        | 2412-34  | 3    | Clamp-Hose               |
| 9        | 321-3    | 2    | Screw-HH                 |
| 10       | 3296-16  | 6    | Nut-Lock, NI             |

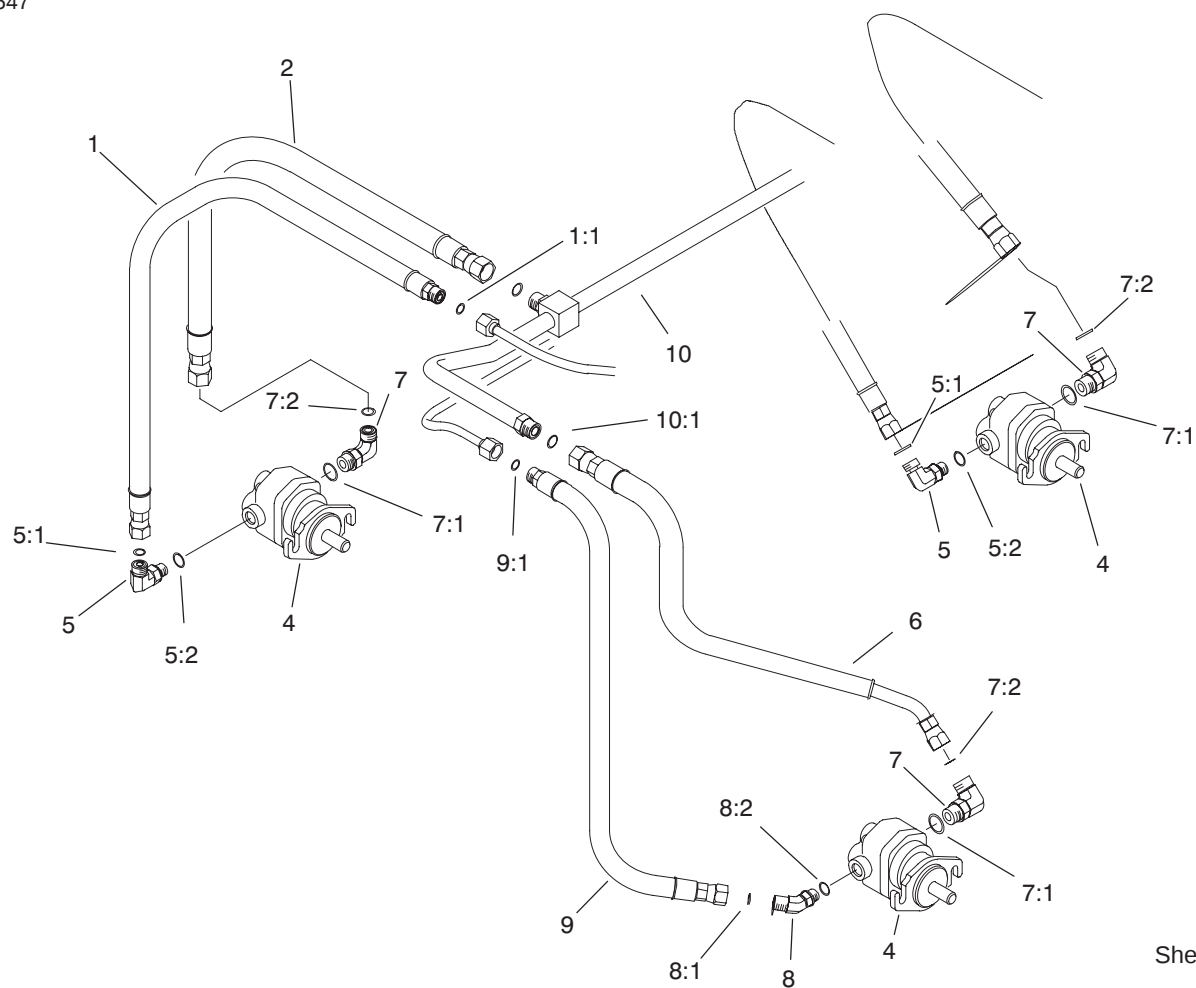
| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |



Sheet No.:17

## Fuel Tank Assembly

| Ref. No. | Part No.  | Qty. | Description            | Ref. No. | Part No. | Qty. | Description |
|----------|-----------|------|------------------------|----------|----------|------|-------------|
| 1        | 94-2690   | 1    | Filter-Fuel            |          |          |      |             |
| 2        | 2412-108  | 2    | Clamp-Worm             |          |          |      |             |
| 3        | 83-2041   | 1    | Hose-Fuel              |          |          |      |             |
| 4        | 93-7170   | 1    | Cap-Fuel               |          |          |      |             |
| 5        | 92-7189   | 1    | Tank-Gas               |          |          |      |             |
| 6        | 240-11    | 4    | Grommet-Mount,<br>Tank |          |          |      |             |
| 7        | 63-8410   | 4    | Washer                 |          |          |      |             |
| 8        | 2412-41   | 3    | Clamp                  |          |          |      |             |
| 9        | 323-6     | 4    | Screw-HH               |          |          |      |             |
| 10       | 33113-012 | 1    | Screw-HH               |          |          |      |             |
| 11       | 2412-94   | 1    | Clamp                  |          |          |      |             |
| 12       | 83-2200   | 1    | Nut                    |          |          |      |             |
| 13       | 3256-63   | 1    | Washer-Flat            |          |          |      |             |
| 14       | 83-2040   | 1    | Hose-Line, Gas         |          |          |      |             |
| 15       | 83-1390   | 1    | Fitting-Shut-Off, Fuel |          |          |      |             |
| 16       | 2412-36   | 2    | Clamp-Hose             |          |          |      |             |
| 17       | 56-2230   | 1    | Hose-Fuel              |          |          |      |             |
| 18       | 2412-98   | 2    | Clamp                  |          |          |      |             |

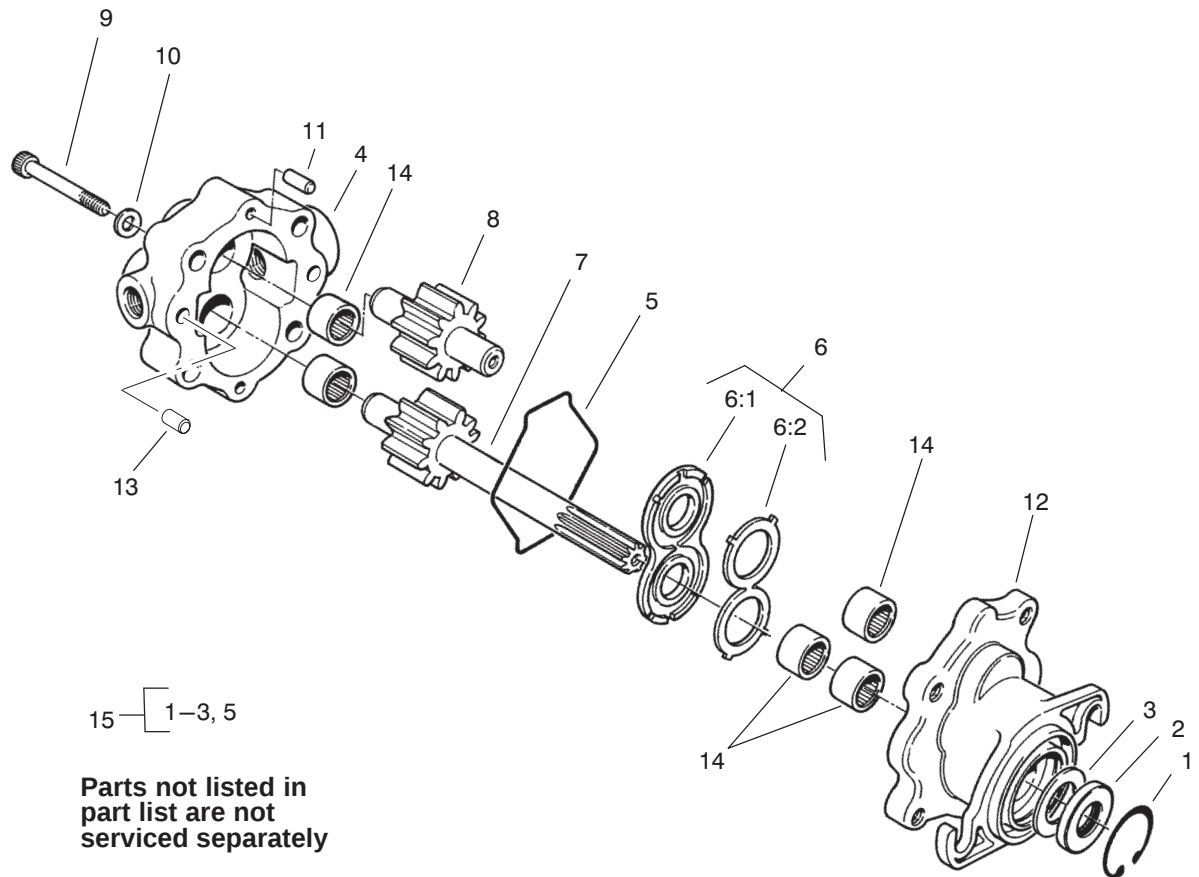


Sheet No.:18

## Real Motor Installation Assembly

| Ref. No. | Part No. | Qty. | Description      |
|----------|----------|------|------------------|
| 1        | 95-5984  | 1    | Hose-HYD         |
| 1:1      | 237-22   | 1    | O-Ring           |
| 2        | 95-5985  | 1    | Hose-HYD         |
| 4        | 94-3506  | 3    | Motor-Reel       |
| 5        | 340-77   | 2    | Fitting-HYD, 90° |
| 5:1      | 237-22   | 2    | O-Ring           |
| 5:2      | 237-42   | 2    | O-Ring           |
| 6        | 95-5989  | 1    | Hose-HYD         |
| 7        | 340-98   | 3    | Fitting-HYD, 90° |
| 7:1      | 237-79   | 3    | O-Ring           |
| 7:2      | 237-30   | 3    | O-Ring           |
| 8        | 340-87   | 1    | Fitting-HYD, 45° |
| 8:1      | 237-22   | 1    | O-Ring           |
| 8:2      | 237-42   | 1    | O-Ring           |
| 9        | 95-5988  | 1    | Hose-HYD         |
| 9:1      | 237-22   | 1    | O-Ring           |
| 10       | 100-6431 | 1    | Tube-Return      |
| 10:1     | 237-30   | 2    | O-Ring           |

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



Sheet No.: B2

T-3373

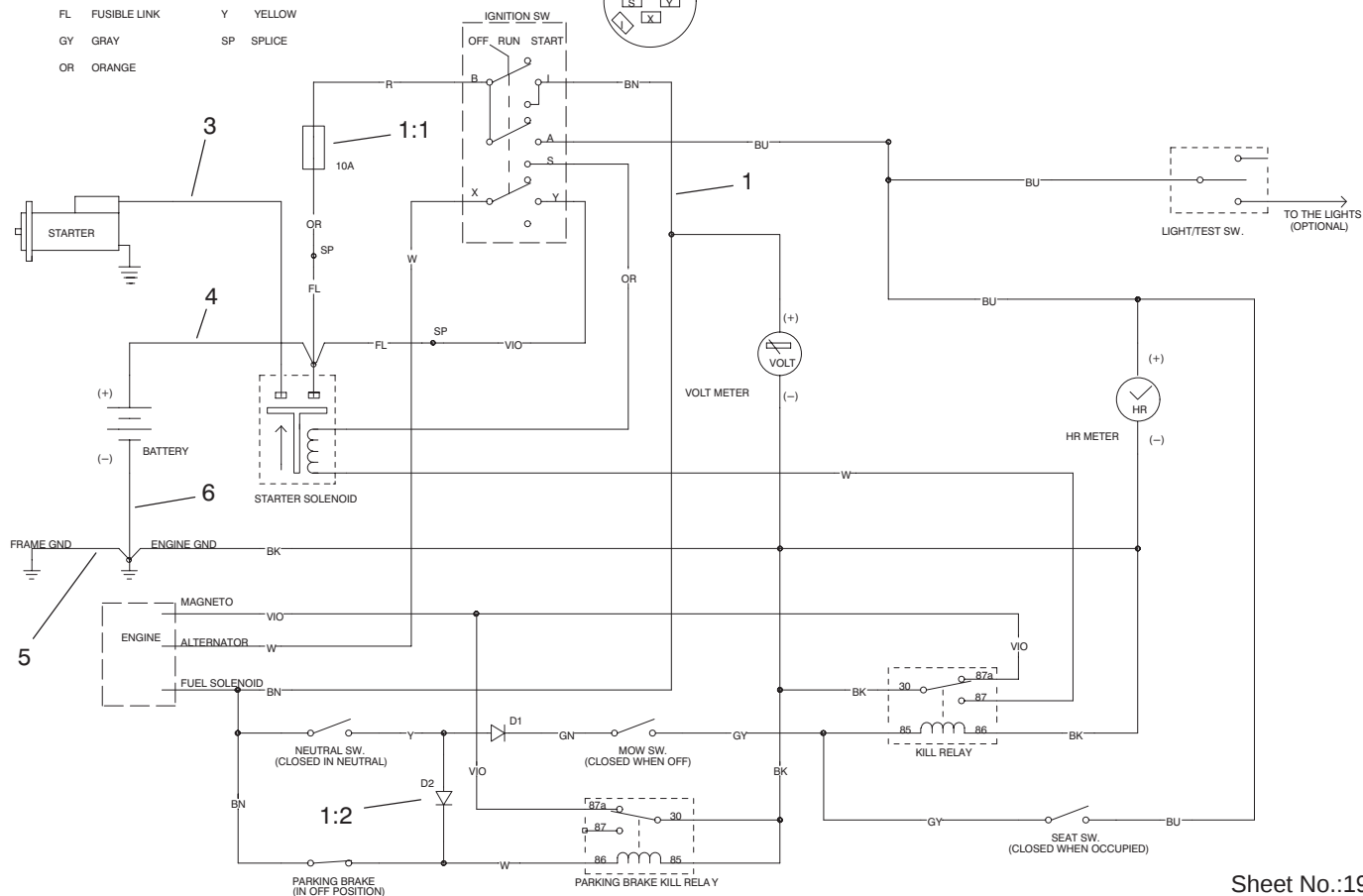
# Reel Motor Assembly No. 94-3506

| Ref. No. | Part No. | Qty. | Description              |
|----------|----------|------|--------------------------|
| 1        | 32151-41 | 3    | Ring-Snap                |
| 3        | 353-590  | 3    | Spacer                   |
| 4        | 94-3507  | 3    | Cover ASM                |
| 5        | 354-46   | 3    | Ring-Seal                |
| 6        | 104-7712 | 6    | Load Plate ASM           |
| 6:1      | 104-7713 | 6    | Plate-Load               |
| 6:2      | 104-7714 | 6    | Seal-Load                |
| 7        | 94-3508  | 3    | Driveshaft & Gear<br>ASM |
| 8        | 94-3509  | 3    | Idle Shaft & Gear<br>ASM |
| 9        | 354-50   | 12   | Screw-HSH                |
| 10       | 354-51   | 12   | Washer                   |
| 11       | 353-599  | 6    | Pin-Dowel                |
| 12       | 92-8795  | 3    | Body ASM                 |
| 13       | 92-8796  | 6    | Pin-Dowel                |
| 15       | 92-8863  | 3    | Kit-Repair               |

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

|    |              |    |        |
|----|--------------|----|--------|
| BK | BLACK        | PU | PURPLE |
| BN | BROWN        | R  | RED    |
| BU | BLUE         | W  | WHITE  |
| FL | FUSIBLE LINK | Y  | YELLOW |
| GY | GRAY         | SP | SPLICE |
| OR | ORANGE       |    |        |

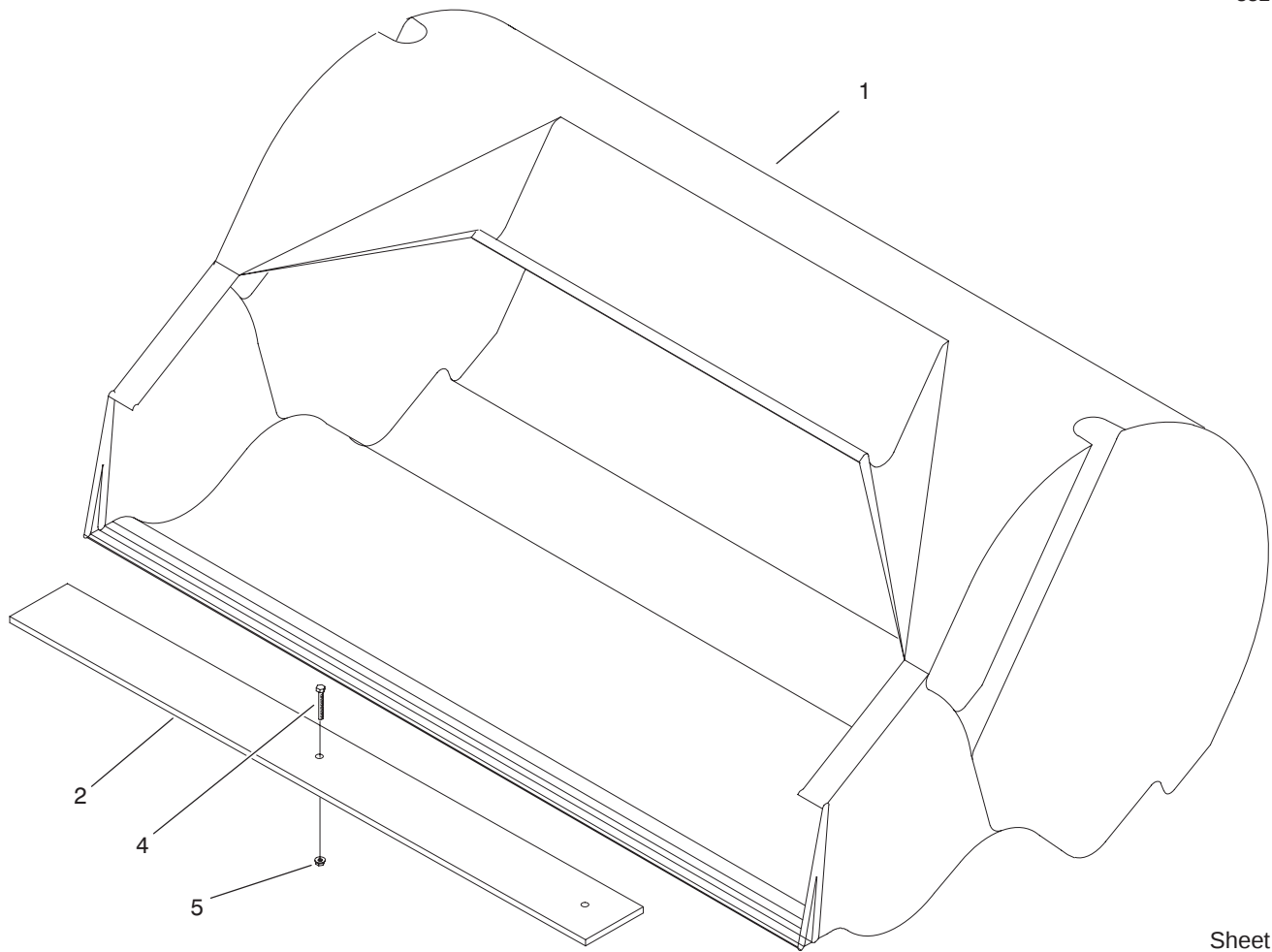
```
STOP ---- NONE
RUN ---- B+I+A; X+Y
START --- B+I+S
```



## Wiring Assembly

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

36



Sheet No.:20

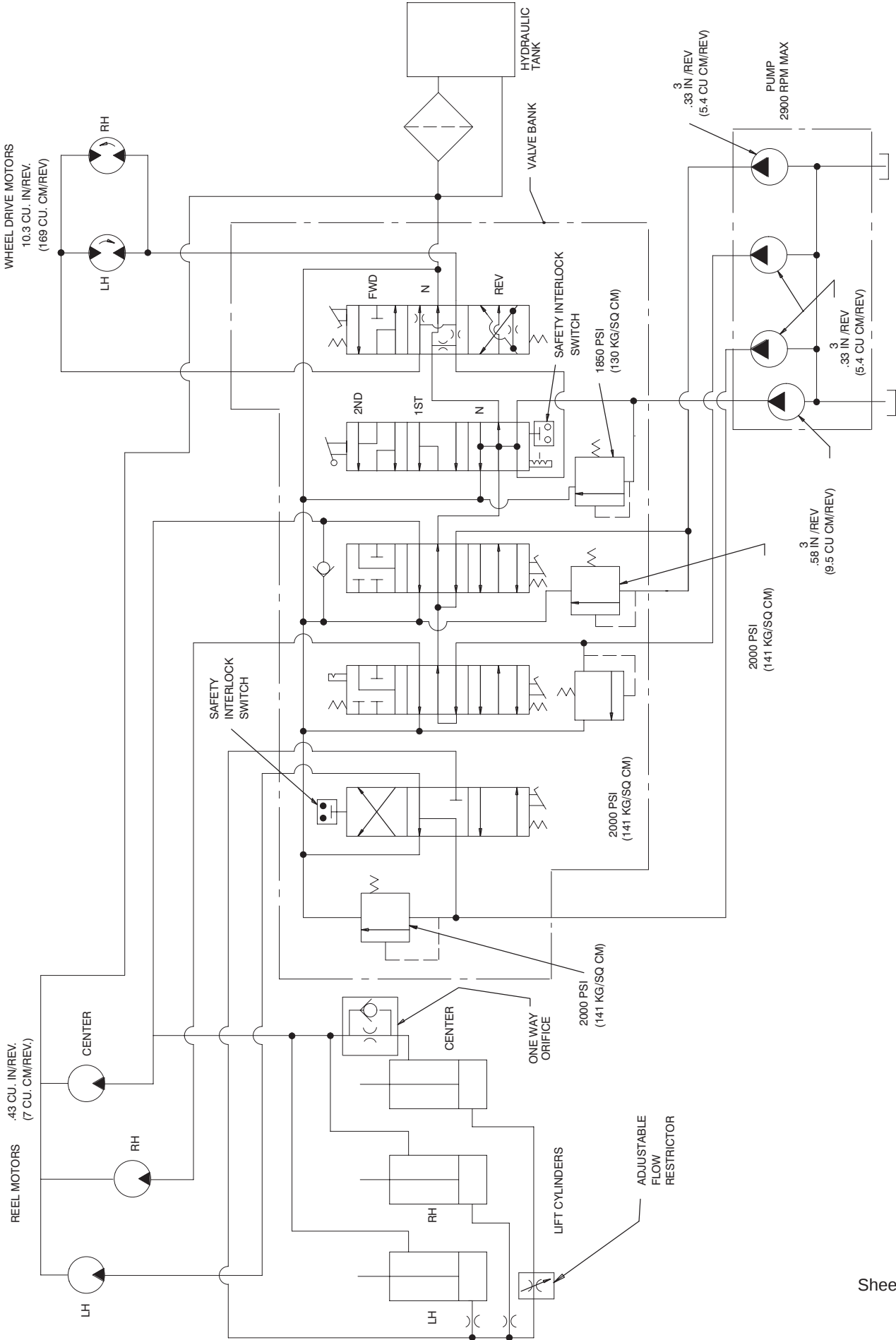
## Grass Basket and Miscellaneous Parts

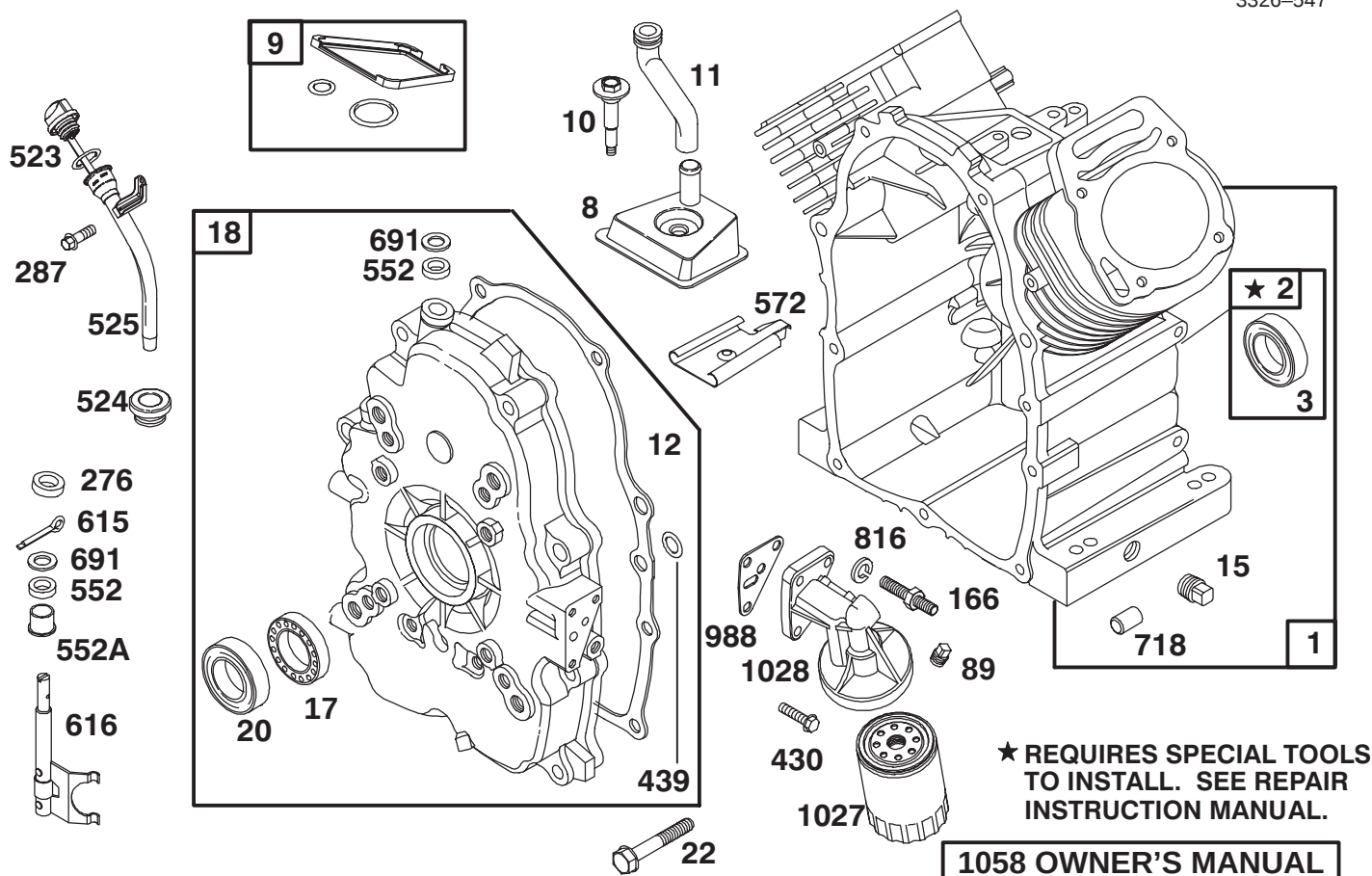
| Ref. No. | Part No. | Qty. | Description           |
|----------|----------|------|-----------------------|
| 1        | 37-8130  | 3    | Basket-Grass          |
| 2        | 65-8320  | 1    | Bar-Gauge             |
| *3       | 93-6691  | 3    | Decal-Bolt, Eccentric |
| 4        | 32122-22 | 1    | Screw-HH              |
| 5        | 3219-14  | 1    | Nut-Hex               |
| *6       | 3290-379 | 3    | Tie-Cable             |
| *7       | 3290-378 | 1    | Tie-Cable             |

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

\* Not illustrated

# Hydraulic Schematic





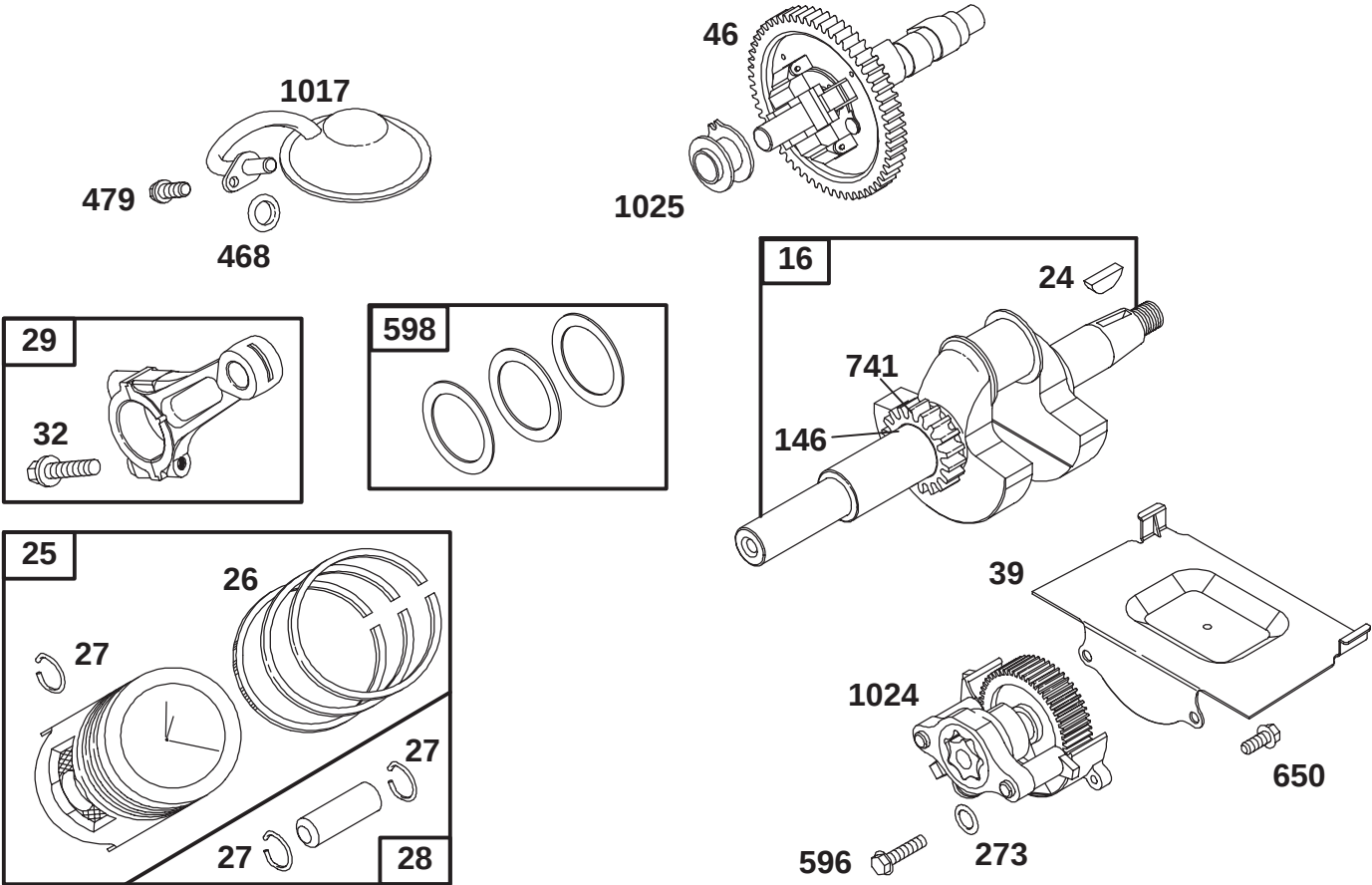
Assemblies include all parts shown in frames.

## Cylinder Assembly Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                |
|----------|----------|------|----------------------------|
| 1        | 692178   | 1    | Cylinder Assembly          |
| 2        | 808534   | 1    | Cylinder Bearing           |
| *3       | 805101   | 1    | Oil Seal (Magneto Side)    |
| 8        | 807795   | 1    | Breather Assembly          |
| *9       | 807688   | 1    | Breather Gasket            |
| 10       | 805751   | 1    | Screw                      |
| 11       | 806083   | 1    | Breather Tube              |
| 12       | 806100   | 1    | Crankcase Cover Gasket     |
| 15       | 94239    | 1    | Oil Drain Plug             |
| 17       | 805754   | 1    | Ball Bearing               |
| 18       | 808847   | 1    | Crankcase Cover            |
| *20      | 805049   | 1    | Oil Seal (PTO Side)        |
| 22       | 692540   | 1    | Screw (Crankcase Cover)    |
| 89       | 690283   | 1    | Pipe Plug                  |
| 166      | 805073   | 1    | Oil Filter Adapter Stud    |
| 276      | 690704   | 1    | Governor Shaft Washer      |
| 287      | 805247   | 1    | Screw (Dipstick Tube)      |
| 430      | 690679   | 1    | Screw (Oil Filter Adapter) |

| Ref. No. | Part No. | Qty. | Description               |
|----------|----------|------|---------------------------|
| 439      | 692154   | 1    | O-Ring (Crankcase Cover)  |
| 523      | 693175   | 1    | Dipstick                  |
| *524     | 693172   | 1    | Dipstick Tube Seal        |
| 525      | 693174   | 1    | Dipstick Tube             |
| 552      | 690701   | 1    | Governor Shaft Bushing    |
| 552A     | 805413   | 1    | Governor Shaft Bushing    |
| 572      | 690686   | 1    | Breather Baffle           |
| 615      | 691550   | 1    | Cotter Pin                |
| 616      | 806685   | 1    | Governor Fork             |
| *691     | 690680   | 1    | Governor Shaft Seal       |
| 718      | 690684   | 1    | Crankcase Dowel           |
| 816      | 690706   | 1    | Washer                    |
| *988     | 805250   | 1    | Oil Filter Adapter Gasket |
| 1027     | 492932   | 1    | Oil Filter                |
| 1028     | 808325   | 1    | Oil Filter Adapter        |
| 1058     | 273685   | 1    | Owner's Manual            |

\* Included in Gasket Set – Part No. 808390.



Assemblies include all parts shown in frames.

# Crankshaft Assembly

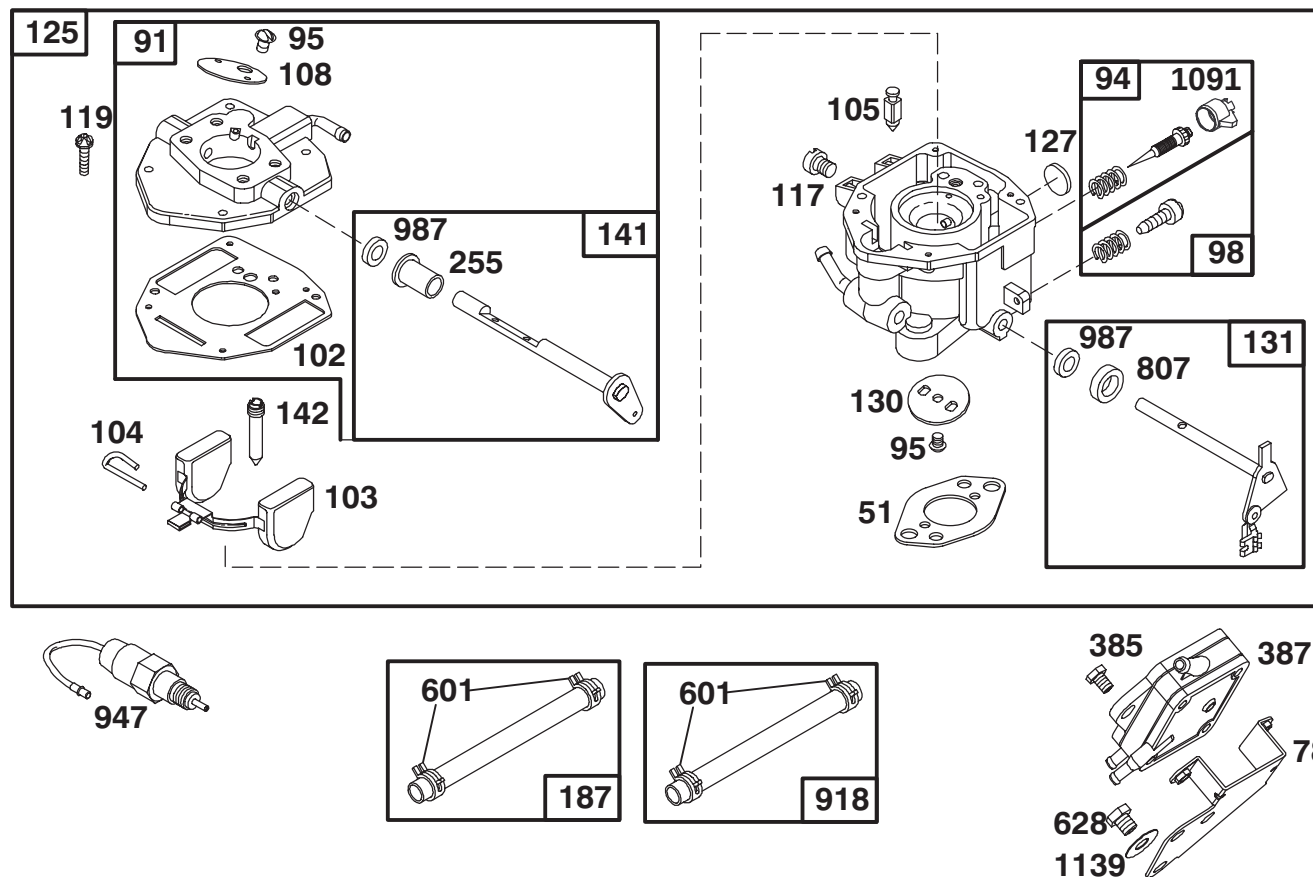
## Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                 |
|----------|----------|------|-----------------------------|
| 16       | 692161   | 1    | Crankshaft                  |
| 24       | 806066   | 1    | Flywheel Key                |
| 25       | 807619   | 1    | Piston Assembly (Standard)  |
|          | 807807   | 1    | Piston Assembly (.010 O.S.) |
|          | 807809   | 1    | Piston Assembly (.020 O.S.) |
|          | 807811   | 1    | Piston Assembly (.030 O.S.) |
| 26       | 807620   | 1    | Piston Ring Set (Standard)  |
|          | 807808   | 1    | Piston Ring Set (.010 O.S.) |
|          | 807810   | 1    | Piston Ring Set (.020 O.S.) |
|          | 807812   | 1    | Piston Ring Set (.030 O.S.) |
| 27       | 690683   | 1    | Piston Pin Lock             |
| 28       | 807621   | 1    | Piston Pin Assembly         |
| 29       | 807900   | 1    | Connecting Rod (Standard)   |
|          | 807809   | 1    | Connecting Rod (.020 U.S.)  |

| Ref. No. | Part No. | Qty. | Description                   |
|----------|----------|------|-------------------------------|
| 32       | 690698   | 1    | Screw (Connecting Rod)        |
| 39       | 690745   | 1    | Oil Deflector                 |
| 46       | 691557   | 1    | Camshaft                      |
| 146      | 94196    | 1    | Timing Key                    |
| *273     | 690681   | 1    | O-Ring Seal (Oil Pump)        |
| *468     | 690690   | 1    | O-Ring Seal (Oil Pump Screen) |
| 479      | 692537   | 1    | Screw                         |
| 596      | 691492   | 1    | Screw                         |
| 598      | 807625   | 1    | End Play Shim                 |
| 650      | 692539   | 1    | Screw                         |
| 741      | 805984   | 1    | Timing Gear                   |
| 1017     | 690900   | 1    | Oil Pump Screen               |
| 1024     | 693185   | 1    | Oil Pump                      |
| 1025     | 690689   | 1    | Governor Slider               |

\* Included in Gasket Set – Part No. 808390.





Assemblies include all parts shown in frames.

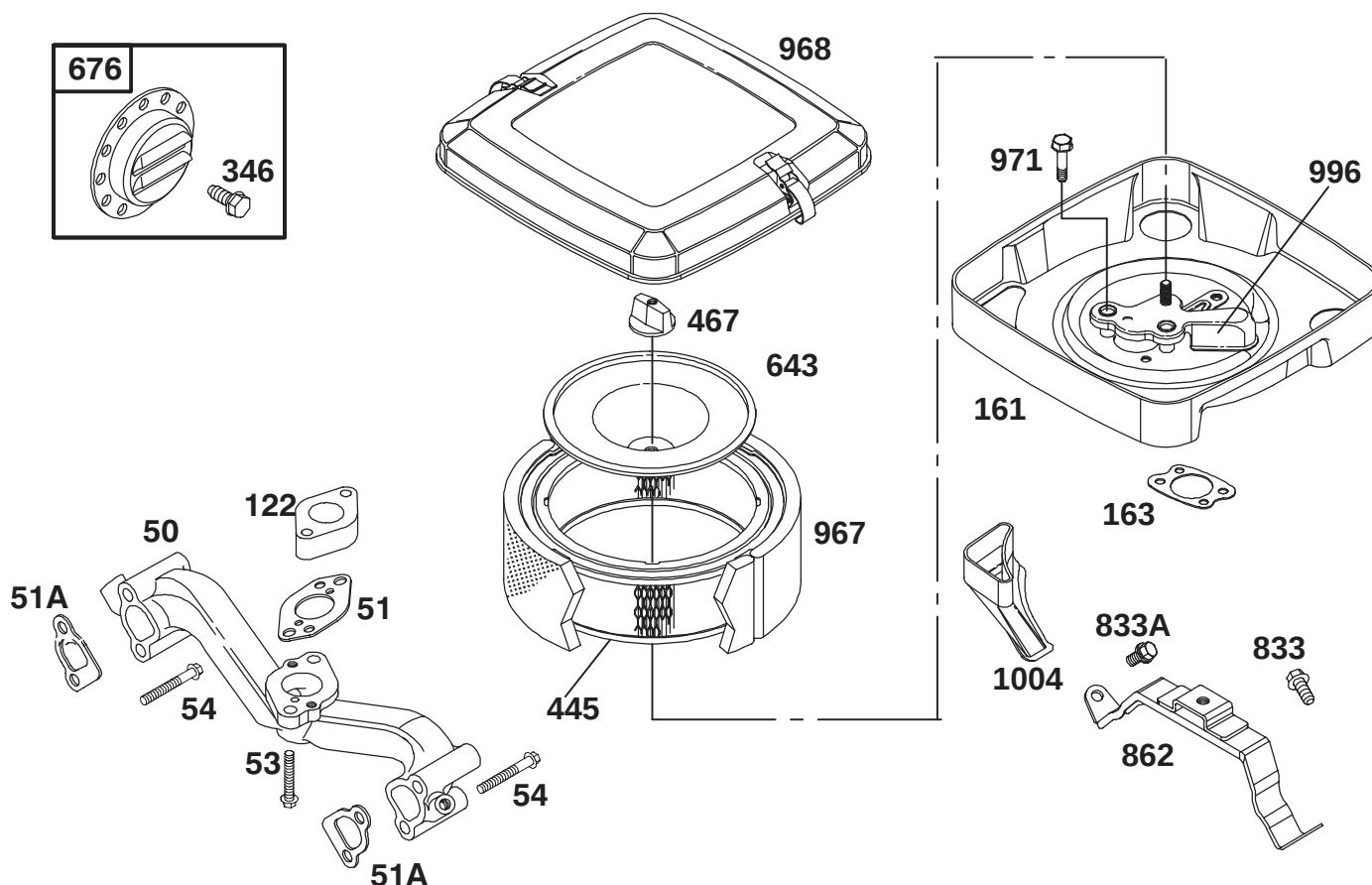
## Carburetor Assembly Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                        |
|----------|----------|------|------------------------------------|
| *51      | 805700   | 1    | Carburetor Mtg. Gasket             |
| 91       | 807919   | 1    | Upper Carburetor Body              |
| †94      | 808257   | 1    | Idle Mixture Kit                   |
| 95       | 805538   | 1    | Screw                              |
| 98       | 808177   | 1    | Screw                              |
| †102     | 805541   | 1    | Carburetor Body Gasket             |
| 103      | 805546   | 1    | Float Assembly                     |
| †104     | 805545   | 1    | Float Hinge Pin                    |
| †105     | 805547   | 1    | Float Needle Valve                 |
| 108      | 805539   | 1    | Choke Valve                        |
| 117      | 805852   | 1    | Main Jet                           |
|          | 805537   | 1    | Main Jet (High Altitude)           |
| 119      | 805540   | 1    | Screw                              |
| 125      | 808251   | 1    | Carburetor Assembly                |
| †127     | 690727   | 1    | Welch Plug                         |
| 130      | 805554   | 1    | Throttle Valve                     |
| 131      | 807720   | 1    | Throttle Shaft                     |
| 141      | 807722   | 1    | Choke Shaft                        |
| †142     | 690725   | 1    | Carburetor Nozzle                  |
| 187      | 691049   | 1    | Fuel Line (Cut to Required Length) |

| Ref. No. | Part No. | Qty. | Description                          |
|----------|----------|------|--------------------------------------|
| †255     | 690721   | 1    | Choke Shaft Bushing                  |
| 385      | 806361   | 1    | Screw                                |
| 387      | 808969   | 1    | Fuel Pump                            |
| 601      | 93807    | 1    | Hose Clamp                           |
| 628      | 805247   | 1    | Screw                                |
| †633     | 690722   | 1    | Choke Shaft Seal                     |
| 788      | 691559   | 1    | Fuel Pump Bracket                    |
| †807     | 805557   | 1    | Throttle Spacer                      |
| 918      | 296004   | 1    | Vacuum Line (Cut to Required Length) |
| 947      | 807664   | 1    | Solenoid                             |
| †1091    | 691516   | 1    | Limiter Cap                          |
| 1139     | 806479   | 1    | Screw                                |

\* Included in Gasket Set – Part No. 808390.

† Included in Valve Overhaul Kit – Part No. 808392



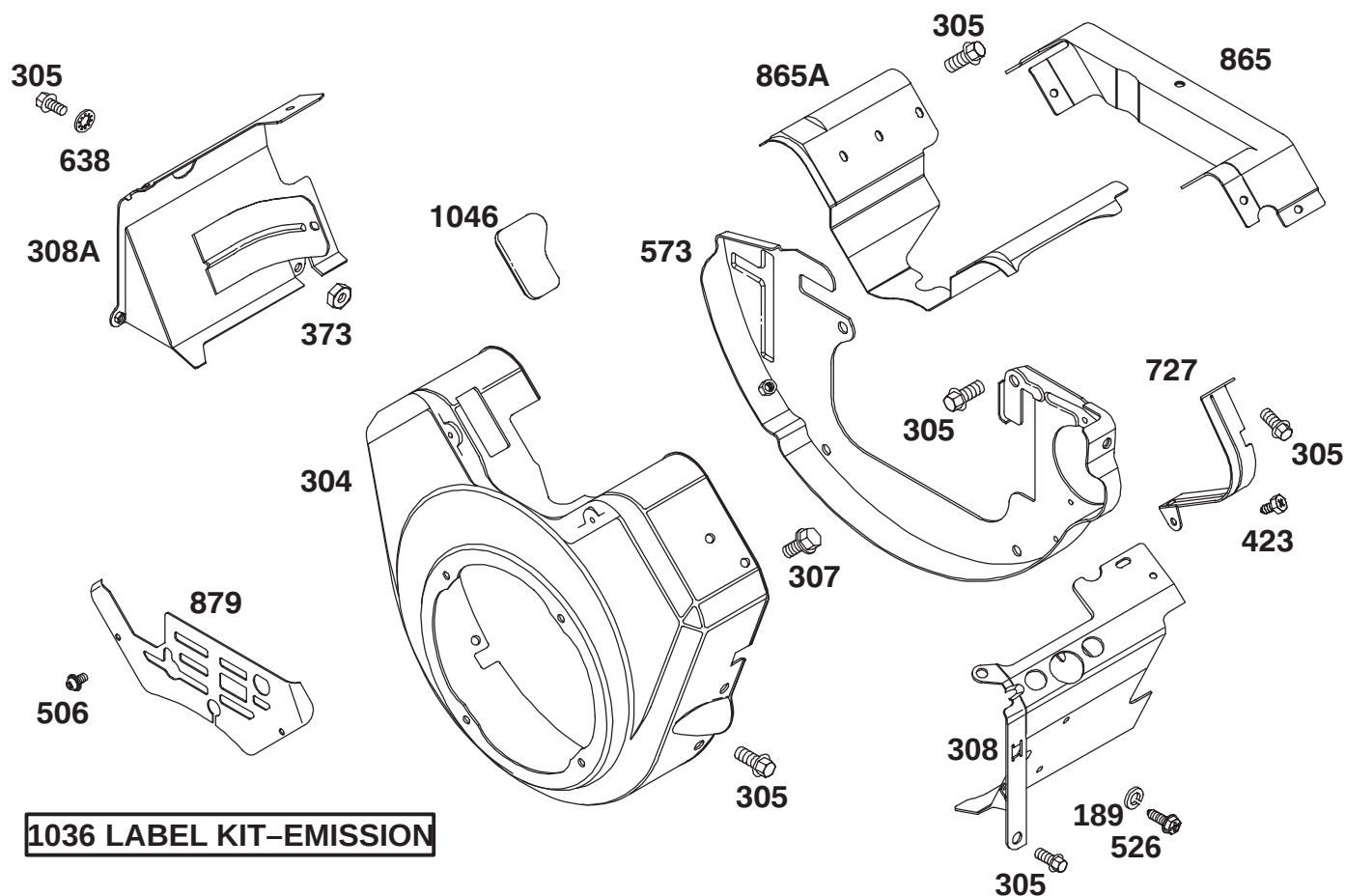
## Air Cleaner Assembly Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                              |
|----------|----------|------|------------------------------------------|
| 50       | 690754   | 1    | Intake Manifold                          |
| *51      | 805700   | 1    | Intake Gasket                            |
| 51A      | 805023   | 1    | Intake Gasket                            |
| *‡52     | 805023   | 1    | Intake Manifold Gasket                   |
| 53       | 805466   | 1    | Screw                                    |
| 54       | 690676   | 1    | Screw                                    |
| 122      | 690691   | 1    | Carburetor Spacer                        |
| 161      | 691561   | 1    | Air Cleaner Base                         |
| *163     | 805655   | 1    | Air Cleaner Gasket                       |
| 305      | 805406   | 1    | Screw<br>(M6 x 12 mm)                    |
| 346      | 94896    | 1    | Screw                                    |
| 445      | 394018   | 1    | Air Filter                               |
| 467      | 491875   | 1    | Air Cleaner Knob                         |
| 643      | 805631   | 1    | Air Cleaner Plate                        |
| 676      | 397630   | 1    | Muffler Deflector                        |
| 833      | 690872   | 1    | Screw<br>(M6 x 16 mm)                    |
| 833A     | 690872   | 1    | Screw (Air Cleaner<br>Mounting<br>Strap) |
| 862      | 692153   | 1    | Air Cleaner Bracket                      |
| 967      | 272490   | 1    | Air Filter                               |
| 968      | 807862   | 1    | Air Cleaner Cover                        |

| Ref. No. | Part No. | Qty. | Description               |
|----------|----------|------|---------------------------|
| 971      | 692537   | 1    | Screw                     |
| 996      | 691577   | 1    | Carburetor Shield         |
| 1004     | 690743   | 1    | Cleaner Mounting<br>Strap |

\* Included in Gasket Set – Part No. 808390.

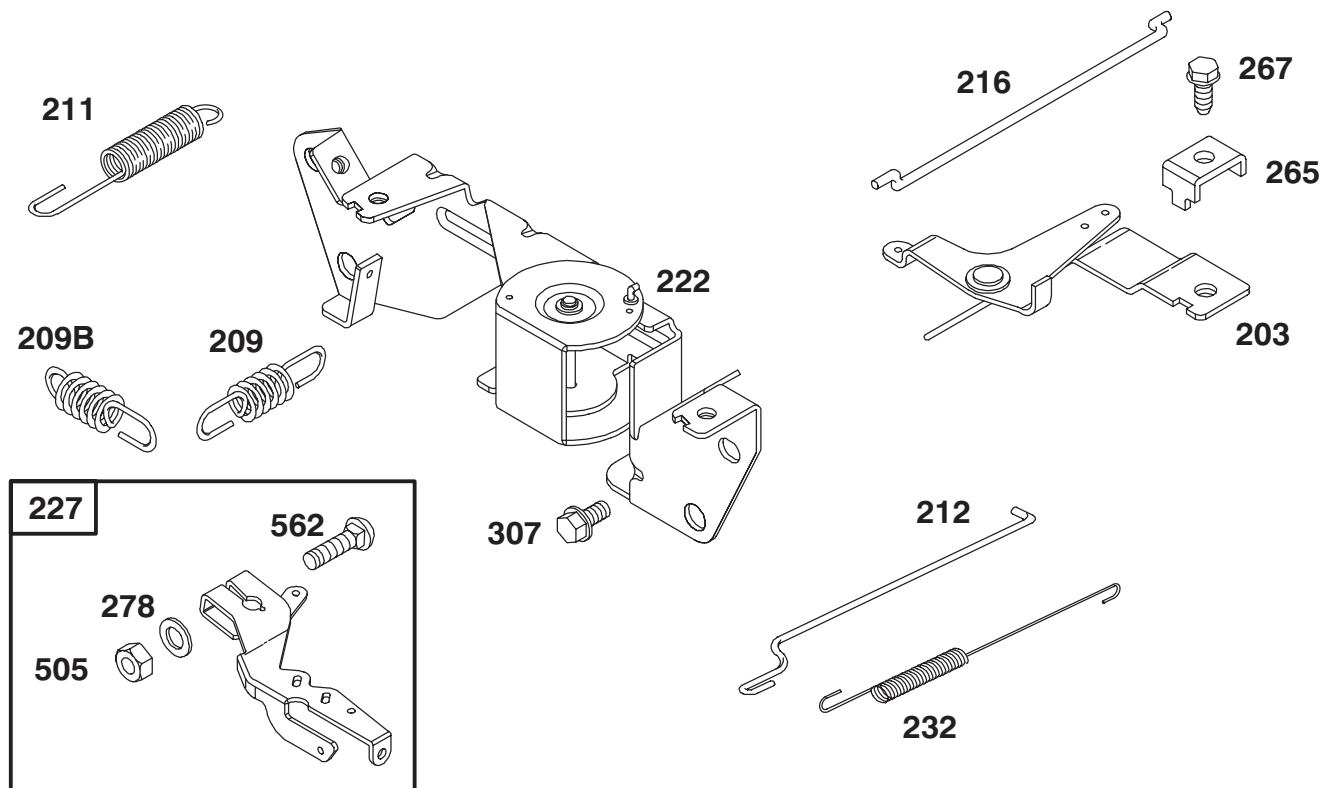
‡ Included in Valve Overhaul Kit – Part No. 808392.



# Blower Housing Assembly Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                  |
|----------|----------|------|------------------------------|
| 189      | 805449   | 1    | Washer                       |
| 304      | 808408   | 1    | Blower Housing               |
| 305      | 692539   | 1    | Screw                        |
| 307      | 805025   | 1    | Screw                        |
| 308      | 692806   | 1    | Air Guide Cover<br>(Cyl. #1) |
| 308A     | 692805   | 1    | Air Guide Cover<br>(Cyl. #2) |
| 373      | 805383   | 1    | Nut                          |
| 423      | 805260   | 1    | Screw                        |
| 506      | 690677   | 1    | Screw                        |
| 526      | 805448   | 1    | Screw                        |
| 573      | 690902   | 1    | Back Plate                   |
| 638      | 691551   | 1    | Lock Washer                  |
| 727      | 690714   | 1    | Starter Shield               |
| 865      | 690901   | 1    | Air Guide Cover              |
| 865A     | 690750   | 1    | Air Guide Cover              |
| 879      | 690757   | 1    | Carburetor Cover             |
| 1036     | 806687   | 1    | Emission Label Kit           |
| 1046     | 805753   | 1    | Blower Housing Plug          |

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



Assemblies include all parts shown in frames.

**Governor Assembly**  
**Briggs and Stratton Model 303447-1408-E1**

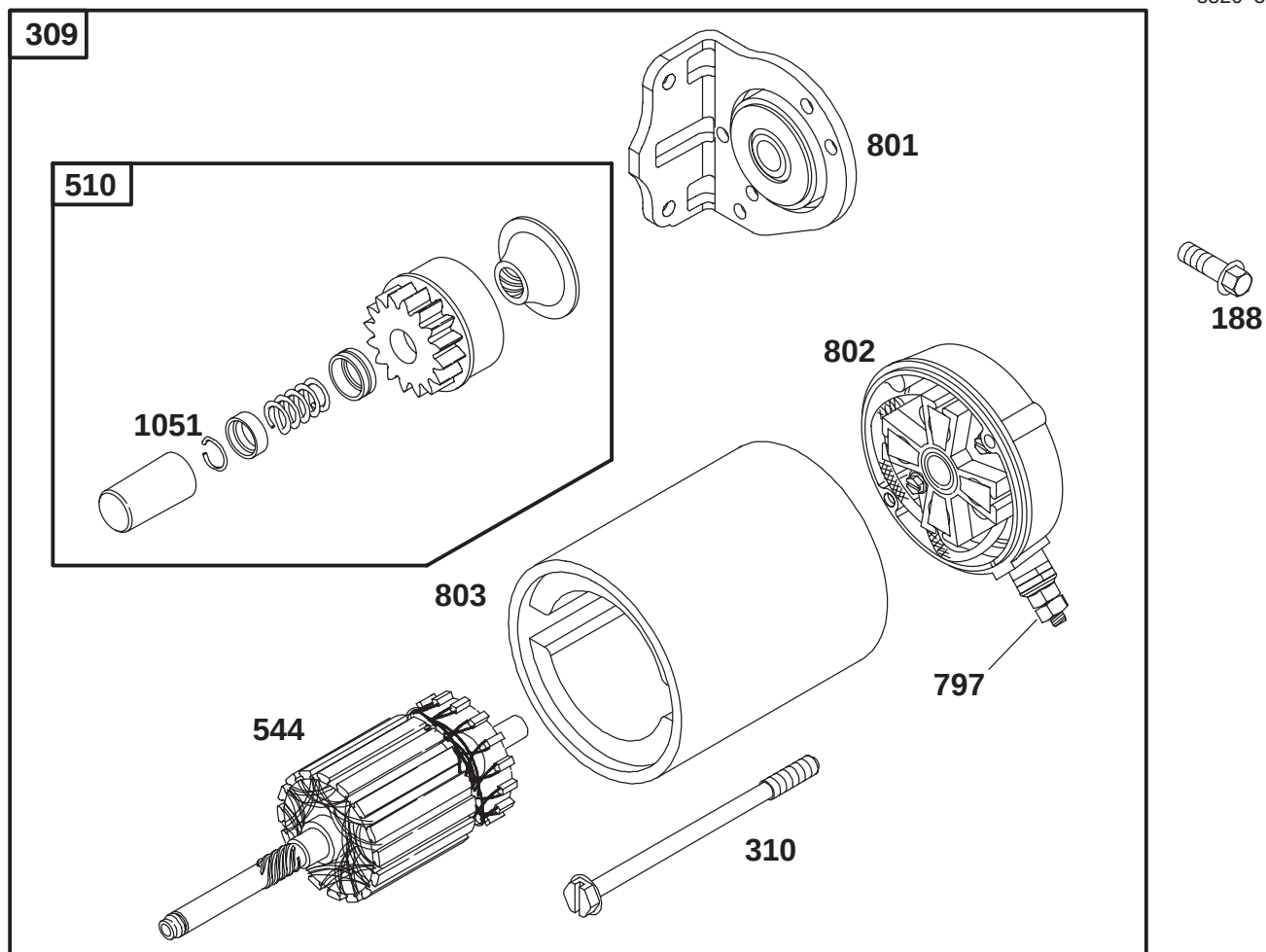
| Ref. No. | Part No. | Qty. | Description                  |
|----------|----------|------|------------------------------|
| 203      | 690923   | 1    | Choke Control Bracket        |
| 209      | 805463   | 1    | Governor Spring              |
| 209B     | 805453   | 1    | Governor Spring              |
| 211      | 805450   | 1    | Governed Idle Spring         |
| 212      | 690712   | 1    | Governor Link                |
| 216      | 805439   | 1    | Choke Link                   |
| 222      | 808454   | 1    | Governor Control Bracket     |
| 227      | 690236   | 1    | Governor Lever Assembly      |
| 232      | 805465   | 1    | Governor Link Spring         |
| 265      | 221535   | 1    | Casing Clamp                 |
| 267      | 692083   | 1    | Screw                        |
| 278      | 690237   | 1    | Washer                       |
| 505      | 690238   | 1    | Nut (Governor Control Lever) |
| 562      | 690239   | 1    | Carriage Bolt                |

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

# Flywheel Assembly Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                                           |
|----------|----------|------|-------------------------------------------------------|
| 23       | 808766   | 1    | Magneto Flywheel                                      |
| 73       | 494439   | 1    | Rotating Screen                                       |
| 78       | 805447   | 1    | Screw                                                 |
| 332      | 690887   | 1    | Nut                                                   |
| 333      | 492341   | 1    | Magneto Armature                                      |
| 359      | 691077   | 1    | Washer<br>(Internal Tooth)                            |
| 363      | 19203    | 1    | Flywheel Puller                                       |
| 373      | 90576    | 1    | Nut                                                   |
| 474      | 393295   | 1    | Alternator Stator                                     |
| 501      | 394890   | 1    | Alternator Regulator                                  |
| 507      | 398525   | 1    | Insulator                                             |
| 520      | 691084   | 1    | Spade Terminal                                        |
| 526      | 805448   | 1    | Screw                                                 |
| 529      | 690744   | 1    | Grommet                                               |
| 578      | 493792   | 1    | Stop Wire                                             |
| 726      | 808162   | 1    | Flywheel Ring Gear<br>(Includes Mounting<br>Hardware) |
| 729      | 690586   | 1    | Wire Clip                                             |
| 851      | 493880   | 1    | Ignition Cable Terminal                               |
| 877      | 393537   | 1    | Alternator Wire                                       |
| 1054     | 280275   | 1    | Cable Tie                                             |
| 1119     | 691552   | 1    | Screw                                                 |

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

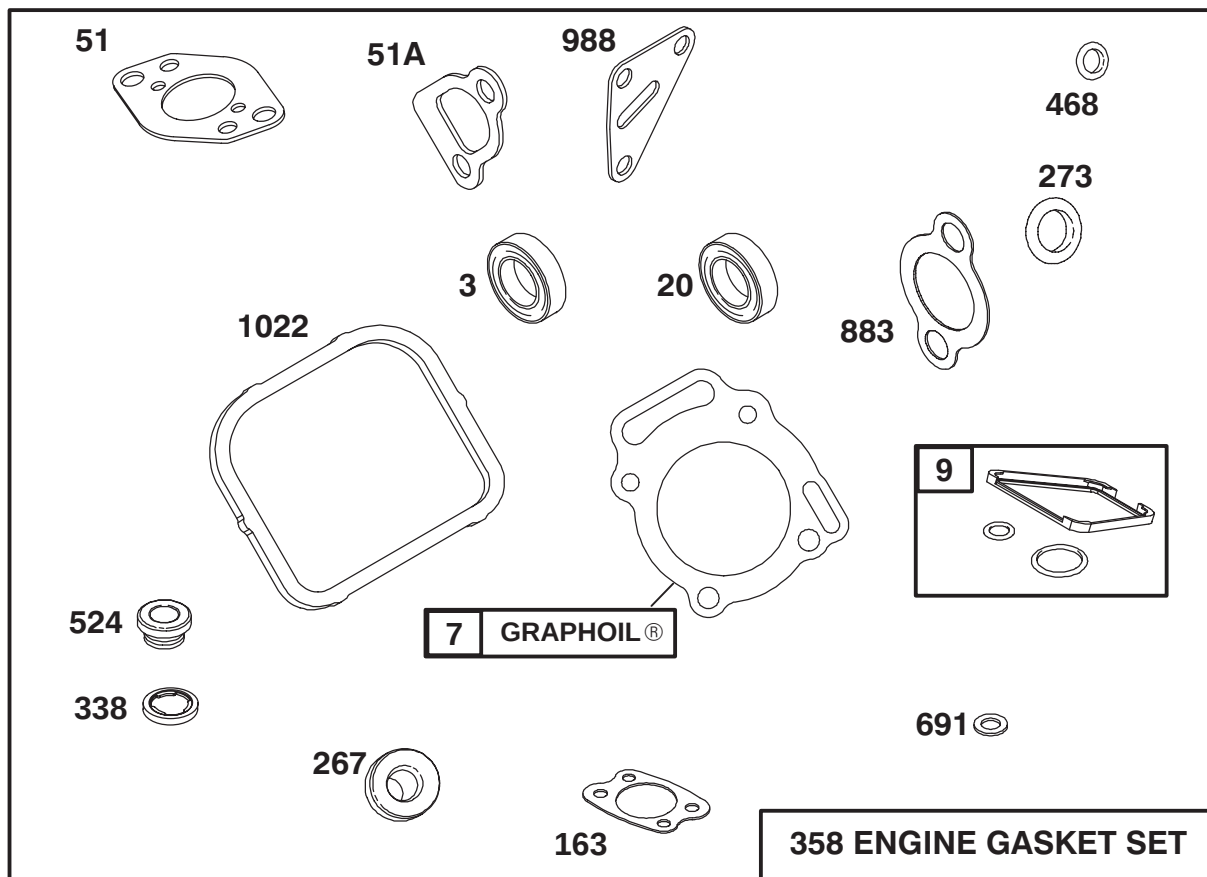


# Starter Assembly

## Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                  |
|----------|----------|------|------------------------------|
| 188      | 805247   | 1    | Screw                        |
| 309      | 691564   | 1    | Starter Motor                |
| 310      | 496813   | 1    | Bolt                         |
| 510      | 496881   | 1    | Starter Drive                |
| 544      | 690855   | 1    | Starter Armature             |
| 797      | 691029   | 1    | Nut                          |
| 801      | 808778   | 1    | Drive Cap                    |
| 802      | 496813   | 1    | End Cap                      |
|          |          |      | <b>Note:</b> Includes 496887 |
|          |          |      | Brush Set                    |
| 803      | 690854   | 1    | Starter Housing              |
| 1051     | 691124   | 1    | Lock Ring                    |

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



Assemblies include all parts shown in frames.

# Engine Gasket Set

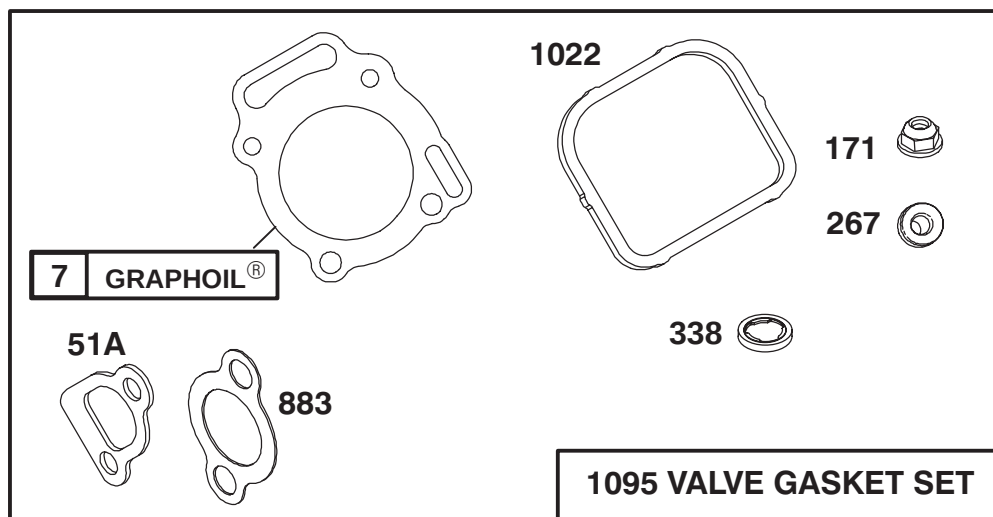
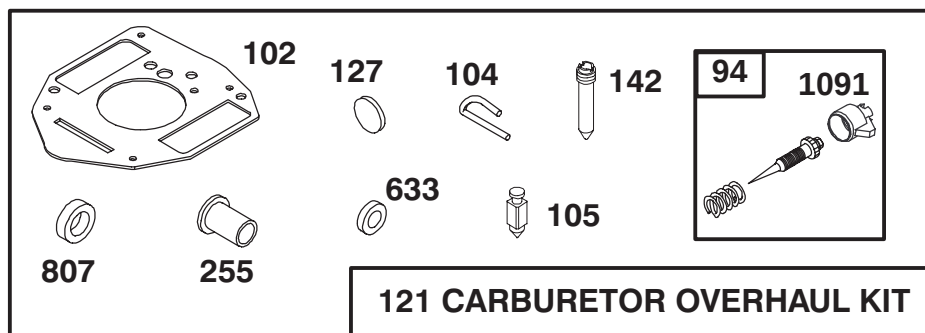
## Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                   |
|----------|----------|------|-------------------------------|
| *3       | 805101   | 1    | Oil Seal (Magneto Side)       |
| *‡7      | 806085   | 1    | Cylinder Head Gasket          |
| *9       | 807688   | 1    | Breather Gasket               |
| *20      | 805049   | 1    | Oil Seal (PTO Side)           |
| *51      | 805700   | 1    | Intake Gasket                 |
| *‡51A    | 805023   | 1    | Intake Gasket                 |
| *163     | 805655   | 1    | Air Cleaner Gasket            |
| *‡267    | 805420   | 1    | Sealing Washer                |
| *273     | 690681   | 1    | O-Ring Seal (Oil Pump)        |
| *‡338    | 691312   | 1    | Dipstick Gasket               |
| 358      | 808390   | 1    | Engine Gasket Set             |
| *468     | 690690   | 1    | O-Ring Seal (Oil Pump Screen) |
| *524     | 693172   | 1    | Dipstick Tube Seal            |
| *691     | 690680   | 1    | Governor Shaft Seal           |
| *‡883    | 805024   | 1    | Exhaust Gasket                |
| *988     | 805250   | 1    | Oil Filter Adapter Gasket     |
| *‡1022   | 806039   | 1    | Rocker Cover Gasket           |

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

\* Included in Gasket Set – Part No. 808390.

‡ Included in Valve Overhaul Kit – Part No. 808392.



Assemblies include all parts shown in frames.

# Carburetor Overhaul and Valve Gasket Kit Briggs and Stratton Model 303447-1408-E1

| Ref. No. | Part No. | Qty. | Description                |
|----------|----------|------|----------------------------|
| *†7      | 806085   | 1    | Cylinder Head Gasket       |
| *†51A    | 805023   | 1    | Intake Gasket              |
| †94      | 808257   | 1    | Idle Mixture Kit           |
| †102     | 805541   | 1    | Carburetor Body<br>Gasket  |
| †104     | 690723   | 1    | Float Hinge Pin            |
| †105     | 805547   | 1    | Float Needle Valve         |
| 121      | 808273   | 1    | Carburetor Overhaul<br>Kit |
| †127     | 690727   | 1    | Welch Plug                 |
| †142     | 690725   | 1    | Carburetor Nozzle          |
| †171     | 805019   | 1    | Nut (Air Cleaner)          |
| †255     | 690721   | 1    | Choke Shaft Bushing        |
| *†267    | 805420   | 1    | Sealing Washer             |
| *†338    | 691312   | 1    | Dipstick Gasket            |
| †633     | 690722   | 1    | Choke Shaft Seal           |
| †807     | 805557   | 1    | Throttle Spacer            |
| *†883    | 805024   | 1    | Exhaust Gasket             |
| *†1022   | 806039   | 1    | Rocker Cover Gasket        |
| †1091    | 691516   | 1    | Limiter Cap                |
| 1095     | 808392   | 1    | Valve Gasket Set           |

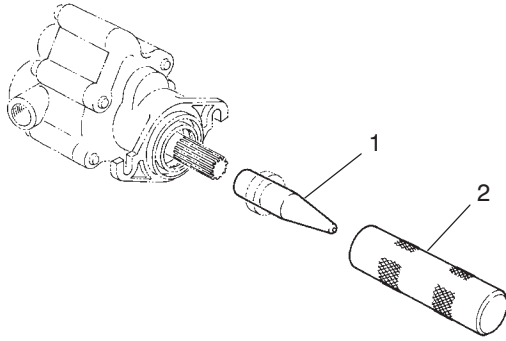
\* Included in Gasket Set – Part No. 808390.

† Included in Carburetor Kit – Part No. 808273.

‡ Included in Valve Overhaul Kit – Part No. 808392.

## Special Tools

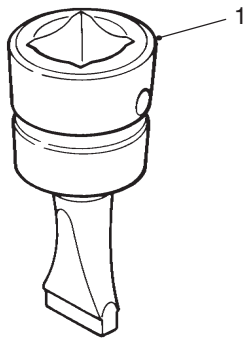
### Reel motor seal installations tools



T-0727

| Ref. No. | Part No.  | Qty. | Description    |
|----------|-----------|------|----------------|
| 1        | TOR491430 | 1    | Protector—Seal |
| 2        | TOR491450 | 1    | Installer—Seal |

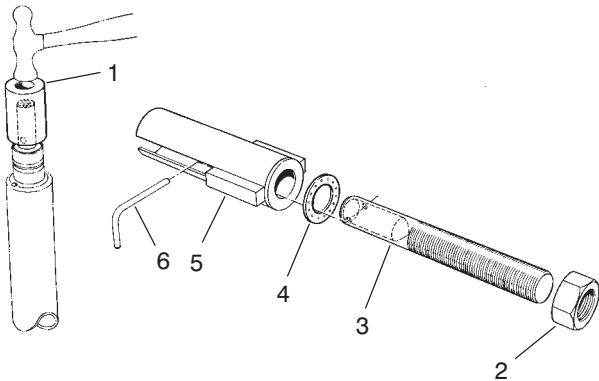
### Bed knife screw tool No. TOR510880



T-0729

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 1        |          | 1    | Tool—Bed Knife Screw |

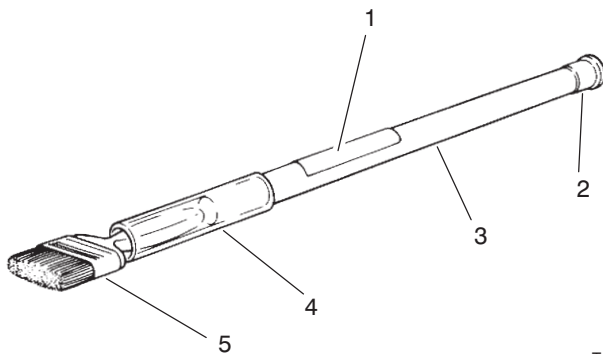
### Bearing replacement tool kit No. TOR238900



T-0730

| Ref. No. | Part No. | Qty. | Description              |
|----------|----------|------|--------------------------|
| 1        | 23-8880  | 2    | Driver—Bearing           |
| 2        | 3219-18  | 1    | Nut—Hex                  |
| 3        | 23-8840  | 1    | Puller—Bolt              |
| 4        | 22-6090  | 1    | Washer—Thrust            |
| 5        | 23-8850  | 1    | Tube—Support             |
| 6        | 23-8860  | 1    | Pin—Replacement, Bearing |

### Backlapping brush assembly No. 29-9100



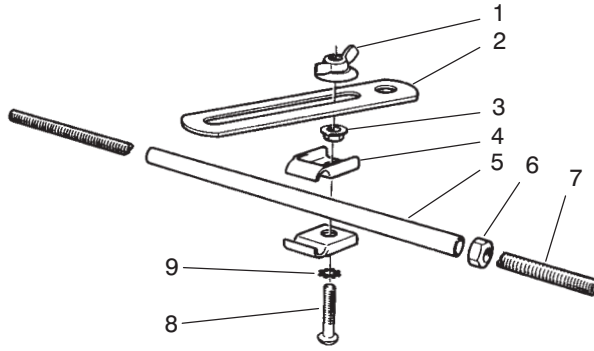
T-0731

| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
| 1        | 12-9140  | 1    | Decal       |
| 2        | 2410-18  | 1    | Plug        |
| 3        | 29-9080  | 1    | Handle      |
| 4        | 29-9090  | 1    | Hose—Handle |
| 5        | 36-4310  | 1    | Brush       |

Note: Special tools may be ordered from: Owatonna Tool Company 2013 4th St. NW Owatonna, MN 55060

## Special Tools (Continued)

### Alignment tool No. TOR200120



T-0732

| Ref. No. | Part No. | Qty. | Description             |
|----------|----------|------|-------------------------|
| 1        | 3-4808   | 1    | Nut-Wingl               |
| 2        | 20-0110  | 1    | Bracket-Alignment       |
| 3        | 32123-20 | 1    | Nut-Lock, Flange        |
| 4        | 3-6657   | 2    | Clip-Skid               |
| 5        | 20-0070  | 1    | Tube                    |
| 6        | 3219-2   | 1    | Nut-Hex                 |
| 7        | 20-0080  | 1    | Rod                     |
| 8        | 32122-35 | 1    | Screw-Head, Truss       |
| 9        | 3255-8   | 1    | Washer-Lock, Int. Tooth |

**Note: Special tools may be ordered from: Owatonna Tool Company**  
**2013 4th St. NW**  
**Owatonna, MN 55060**

