



**Count on it.**

# Parts Catalog

## HydroJect® 3010 Aerator

Model No. 09802—Serial No. 290000001 and Up

# 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 illustration and in parts 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.

# List of Abbreviations

**AR:** as required

**ASM:** assembly

**BBC:** blade brake control

**BHTF:** button head thread forming

**CARR:** carriage

**CCW:** counter clockwise

**CW:** clockwise

**DEG:** degrees

**DPA:** Dual Point Adjustment

**ECM:** electronic control module

**EXT:** external

**FH:** flat head

**GA:** gauge

**HD:** heavy-duty

**HF:** hex flange

**HH:** hex head

**HHF:** hex head flange

**HHFTF:** hex head flange thread forming

**HJ:** hex jam

**HLH:** hex lag head

**HOC:** height-of-cut

**HSBH:** hex socket button head

**HSFH:** hex socket flat head

**HSH:** hex socket head

**HWH:** hex washer head

**HWHTF:** hex washer head thread forming

**HYD:** hydraulic

**LH:** left hand

**LP:** Liquid Propane

**NI:** nylon insert

**NPTF:** national pipe thread fine

**PFH:** phillips flat head

**PPH:** phillips pan head

**PPHTF:** phillips pan head thread forming

**PRH:** phillips round head

**PTH:** phillips truss head

**PTO:** power-take-off

**RH:** right hand

**ROPS:** roll-over protection system

**RRB:** rear roller brush

**SFH:** slotted fillister head

**SHH:** slotted hex head

**SHWH:** slotted hex washer head

**SPH:** slotted pan head

**SQH:** square head

**SRH:** slotted round head

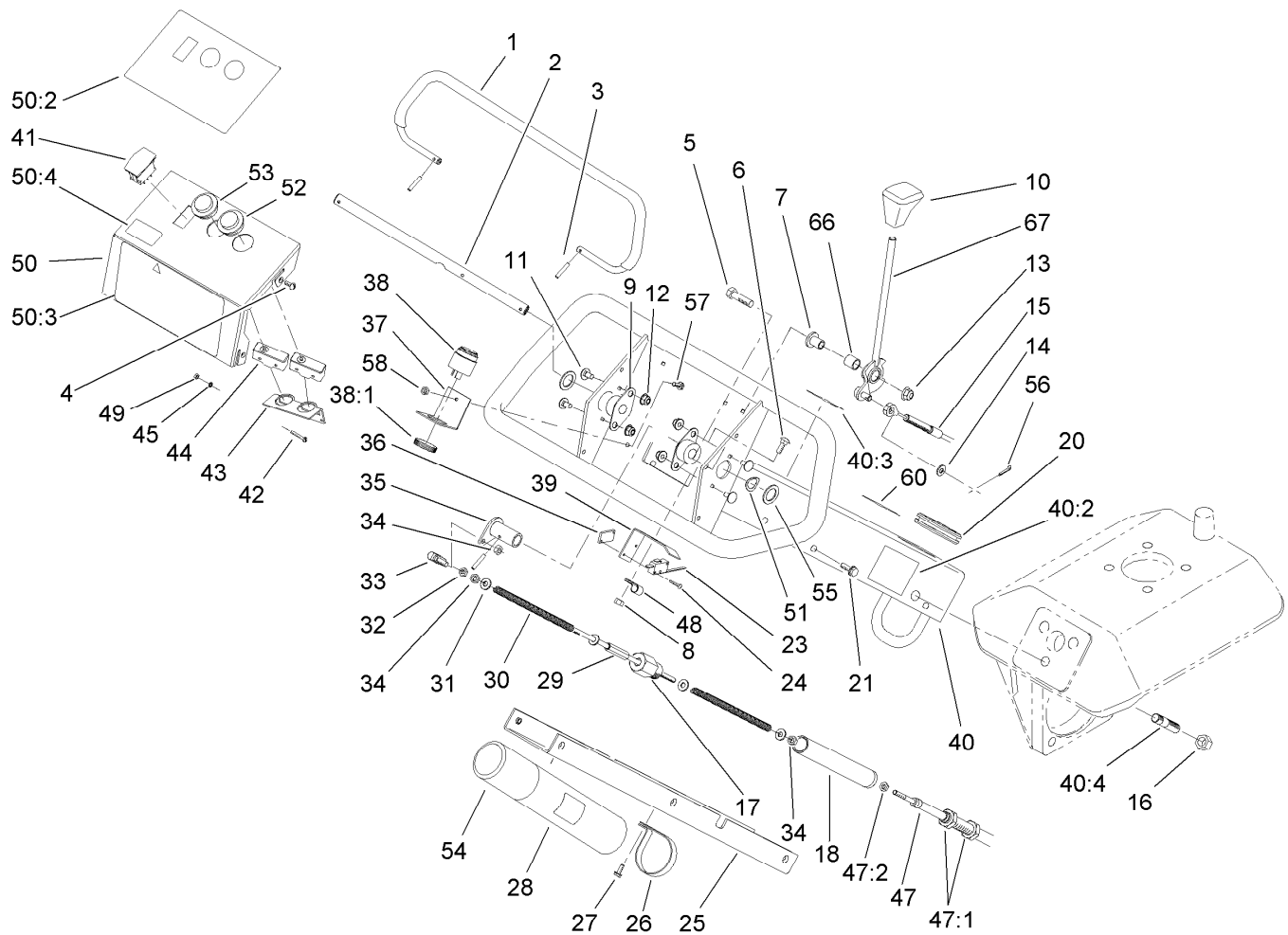
**STD:** standard

**TAP:** self tapping

**TTH:** torx truss head

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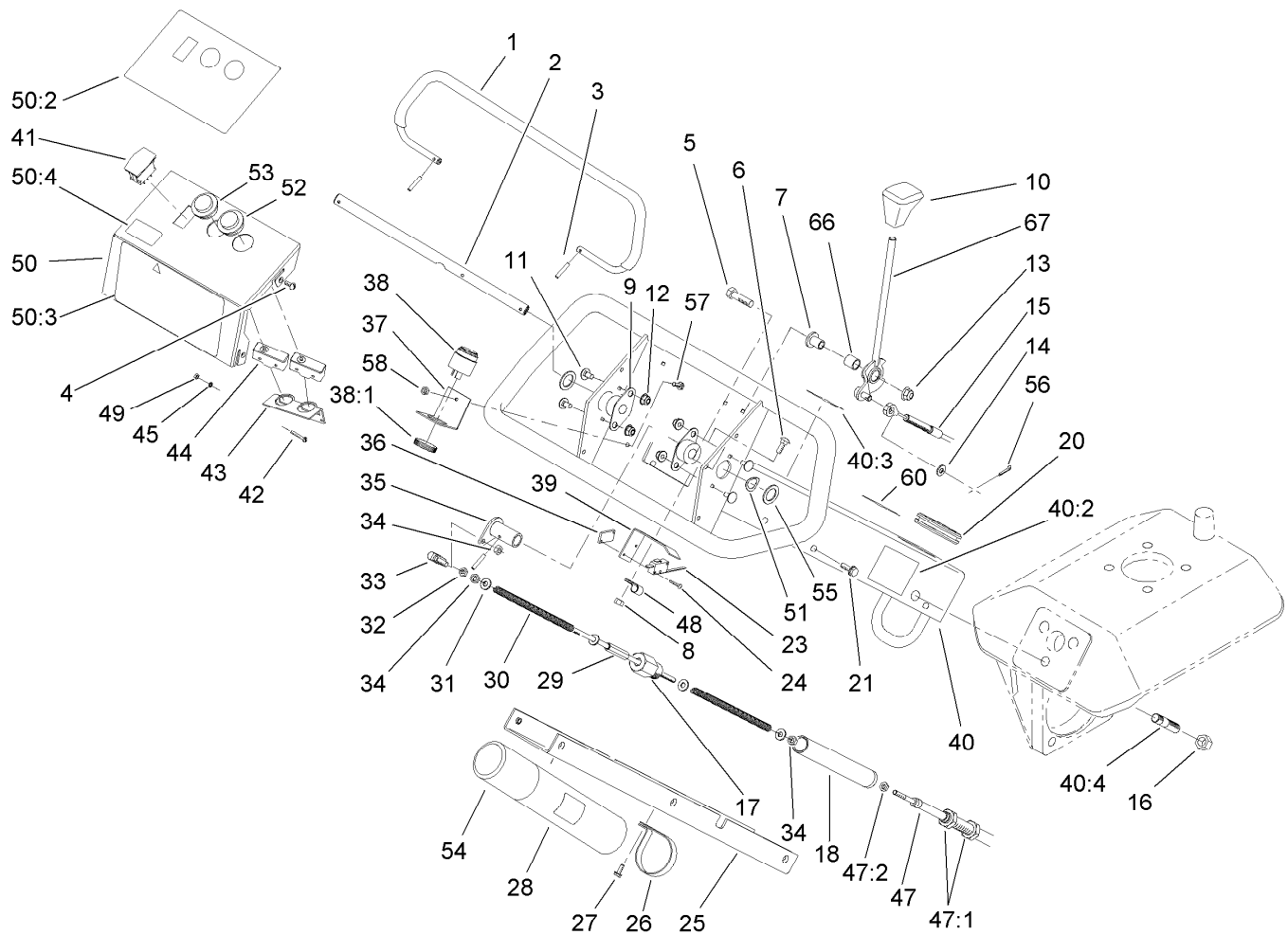
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## Handle Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 106-8948    | 1    | Handle-Traction       |
| 2    | 107-3350    | 1    | Shaft-Pivot, Bail     |
| 3    | 32121-45    | 3    | Pin-Spring            |
| 4    | 32104-60    | 4    | Screw-HWH             |
| 5    | 323-8       | 1    | Screw-HH              |
| 6    | 3229-1      | 1    | Screw-CARR            |
| 7    | 80-7200     | 1    | Spacer-Brake          |
| 8    | 3296-42     | 1    | Nut-Lock, NI          |
| 9    | 256-236     | 2    | Bearing-Mount, Flange |
| 10   | 65-8970     | 1    | Knob-Shift            |
| 11   | 3230-23     | 4    | Screw-CARR            |
| 12   | 104-8300    | 4    | Nut-Flange, NI        |
| 13   | 104-8301    | 1    | Nut-Flange, NI        |
| 14   | 3256-23     | 1    | Washer-Flat           |
| 15   | 80-9740     | 1    | Cable-Brake           |
| 16   | 3296-19     | 3    | Nut-Hex               |
| 17   | 80-7230     | 1    | Hub-Override          |
| 18   | 80-7080     | 1    | Housing               |
| 20   | 240-8       | 1    | Grommet-Rubber        |
| 21   | 32104-95    | 6    | Screw-HWH             |
| 23   | 40-8200     | 1    | Switch-Micro          |
| 24   | 3290-313    | 2    | Screw-Ph              |
| 25   | 107-3363-03 | 1    | Cover-Lower, Handle   |
| 26   | 2412-120    | 2    | R-Clamp               |
| 27   | 32104-76    | 2    | Screw                 |
| 28   | 104-7050    | 1    | Tube-Manual           |
| 29   | 80-7060     | 1    | Shaft-Override        |
| 30   | 80-7150     | 2    | Spring-Compression    |

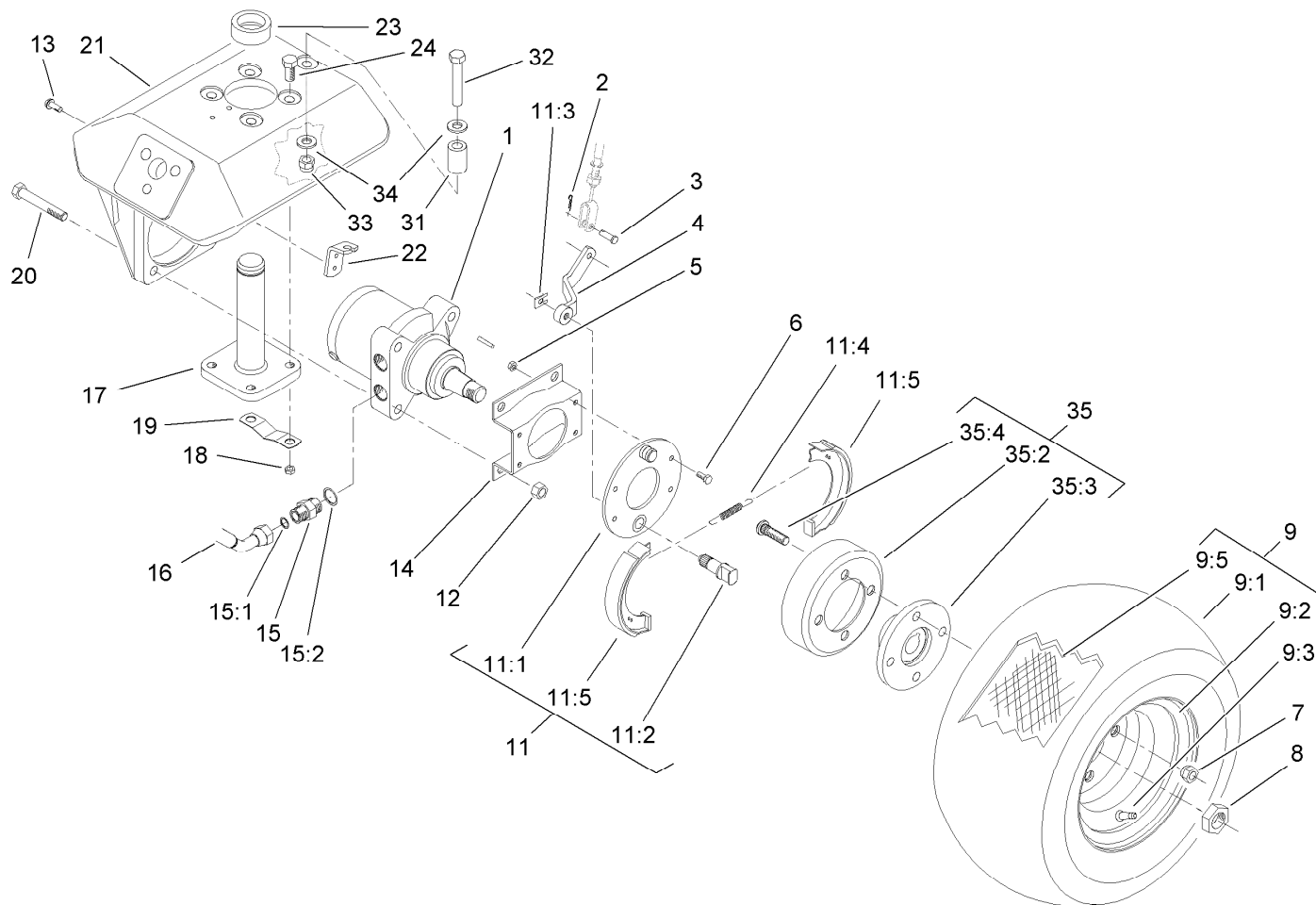
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 31   | 3256-2      | 4    | Washer-Flat              |
| 32   | 3220-1      | 1    | Nut-Jam                  |
| 33   | 2411-34     | 1    | Joint-Ball               |
| 34   | 3296-3      | 3    | Nut-Lock                 |
| 35   | 108-1262    | 1    | Bail Lever ASM           |
| 36   | 3290-354    | 1    | Nut-Speed                |
| 37   | 80-7790     | 1    | Bracket-Buzzer           |
| 38   | 80-9330     | 1    | Alarm-Audio              |
| 38:1 | 104-5107    | 1    | Nut-Plastic, Knurled     |
| 39   | 80-6900     | 1    | Support-Switch           |
| 40   | 108-1254    | 1    | Handle ASM               |
| 40:2 | 72-4080     | 1    | Decal-Danger             |
| 40:3 | 93-9363     | 1    | Decal-Brake, Parking     |
| 40:4 | 80-8680     | 3    | Stud                     |
| 41   | 100-1535    | 1    | Switch                   |
| 42   | 3250-35     | 4    | Screw-PPH                |
| 43   | 80-9270     | 1    | Bracket-Mount, Switch    |
| 44   | 80-9280     | 2    | Switch                   |
| 45   | 3254-9      | 4    | Washer-Lock, Internal    |
| 47   | 80-7220     | 1    | Cable-Control, Stroke    |
| 47:1 | 3220-6      | 4    | Nut-Jam                  |
| 47:2 | 3220-1      | 2    | Nut-Jam                  |
| 48   | 2412-94     | 1    | Clamp                    |
| 49   | 3217-16     | 4    | Nut-Hex                  |
| 50   | 108-1259    | 1    | Control Handle Cover ASM |
| 50:2 | 108-1265    | 1    | Decal-Control            |
| 50:3 | 108-1317    | 1    | Decal-Warning            |
| 50:4 | 98-4387     | 1    | Decal-Protection, Ear    |



## Handle Assembly (continued)

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 51   | 108-2100    | 1    | Washer-Spring, Curved |
| 52   | 80-9300     | 1    | Button-Red, Switch    |
| 53   | 80-9290     | 1    | Button-Green, Switch  |
| 54   | 104-7048    | 1    | Cap-Housing           |
| 55   | 3256-69     | 2    | Washer-Flat           |
| 56   | 3272-10     | 1    | Pin-Cotter            |

| Ref. | Part Number | Qty. | Description   |
|------|-------------|------|---------------|
| 57   | 32105-23    | 1    | Screw         |
| 58   | 3296-2      | 1    | Nut-Lock, NI  |
| 60   | 93-9429     | 1    | Decal-Warning |
| 66   | 256-206     | 1    | Bushing       |
| 67   | 86-8420     | 1    | Lever-Brake   |

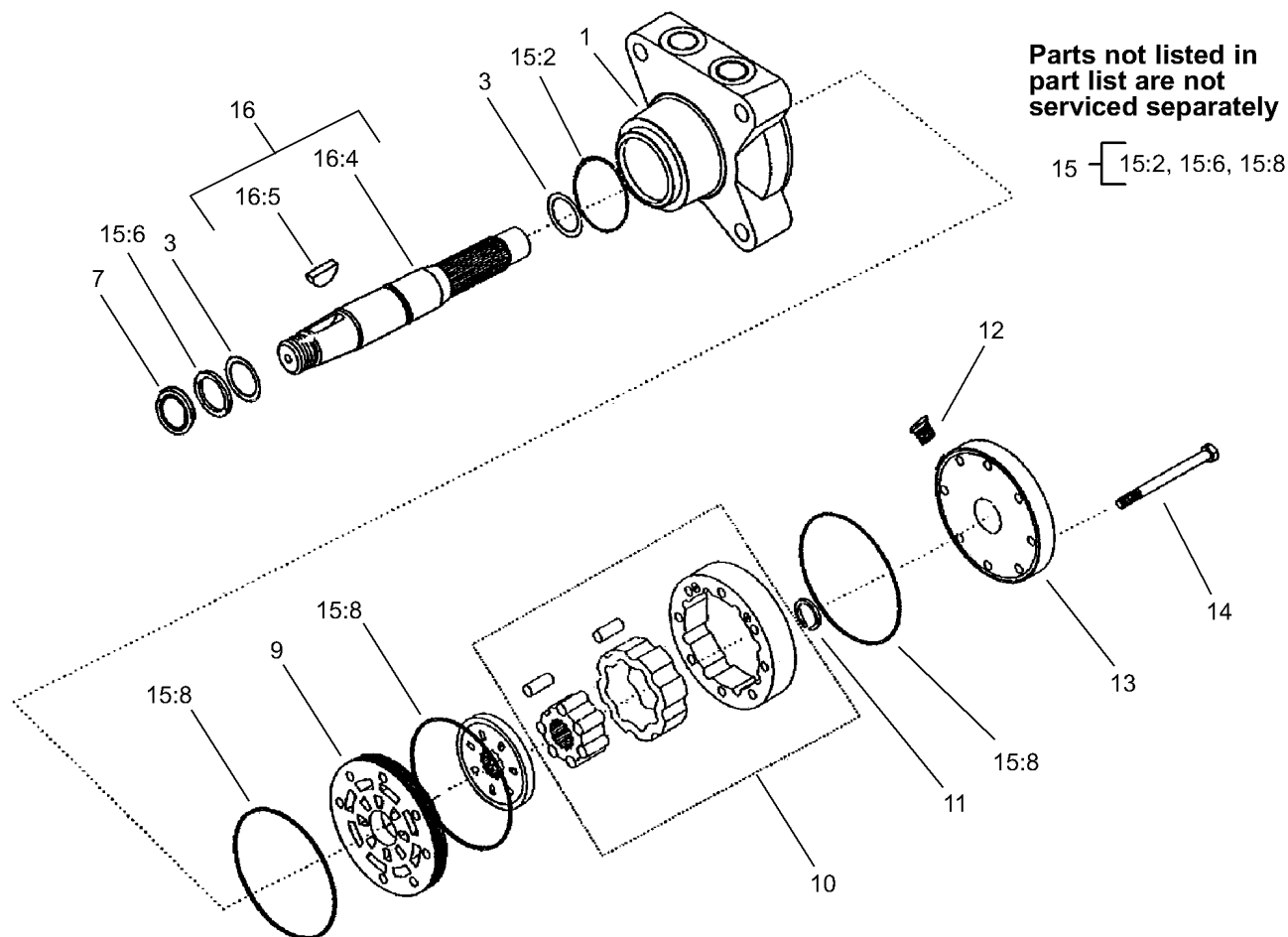


## Front Wheel Assembly

| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 105-4063    | 1    | Motor-HYD            |
| 2    | 3272-10     | 1    | Pin-Cotter           |
| 3    | 283-75      | 1    | Pin-Clevis           |
| 4    | 80-7400-03  | 1    | Lever-Brake          |
| 5    | 3296-42     | 4    | Nut-Lock, NI         |
| 6    | 321-4       | 4    | Screw-HH             |
| 7    | 242-50      | 4    | Nut-Lug              |
| 8    | 26-3790     | 1    | Nut-Lock             |
| 9    |             | 1    | Wheel And Tire ASM ● |
| 9:1  | 28-3680     | 1    | Tire                 |
| 9:2  | 217-60      | 1    | Rim                  |
| 9:3  | 232-27      | 1    | Stem-Valve           |
| 9:5  | 232-37      | 1    | Tube                 |
| 11   | 104-7705    | 1    | Brake ASM            |
| 11:1 | 70-9870     | 1    | Plate-Backing        |
| 11:2 | 104-7707    | 1    | Shaft-Cam, Brake     |
| 11:3 | 104-7706    | 1    | E-Ring, Bowed        |
| 11:4 | 70-9880     | 2    | Spring-Return        |
| 11:5 | 70-9840     | 2    | Shoe-Brake           |
| 12   | 3296-23     | 4    | Nut-Lock, NI         |
| 13   | 32144-22    | 2    | Screw                |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 14   | 84-2000-03  | 1    | Bracket-Brake         |
| 15   | 340-6       | 2    | Fitting-HYD, Straight |
| 15:1 | 237-30      | 1    | O-Ring                |
| 15:2 | 237-80      | 1    | O-Ring                |
| 16   | 80-7370     | 2    | Hose ASM              |
| 17   | 80-9790-03  | 1    | Shaft-Steering        |
| 18   | 3296-45     | 2    | Nut-Lock, NI          |
| 19   | 80-9730     | 1    | Guide-Cable           |
| 20   | 325-14      | 4    | Screw-HH              |
| 21   | 108-1252-01 | 1    | Arm-Steering          |
| 22   | 86-8290     | 1    | Support-Cable         |
| 23   | 86-8600     | 1    | Spacer-Steering       |
| 24   | 325-6       | 4    | Screw-HH              |
| 31   | 105-1224    | 1    | Tube-Spacer           |
| 32   | 325-12      | 1    | Screw-HH              |
| 33   | 3296-23     | 1    | Nut-Lock, NI          |
| 34   | 3256-26     | 2    | Washer-Flat           |
| 35   | 10-6821     | 1    | Brake Drum ASM        |
| 35:2 | 10-6850     | 1    | Drum-Brake            |
| 35:3 | 10-6870-03  | 1    | Hub-Wheel             |
| 35:4 | 85-6540     | 4    | Stud-Drive            |

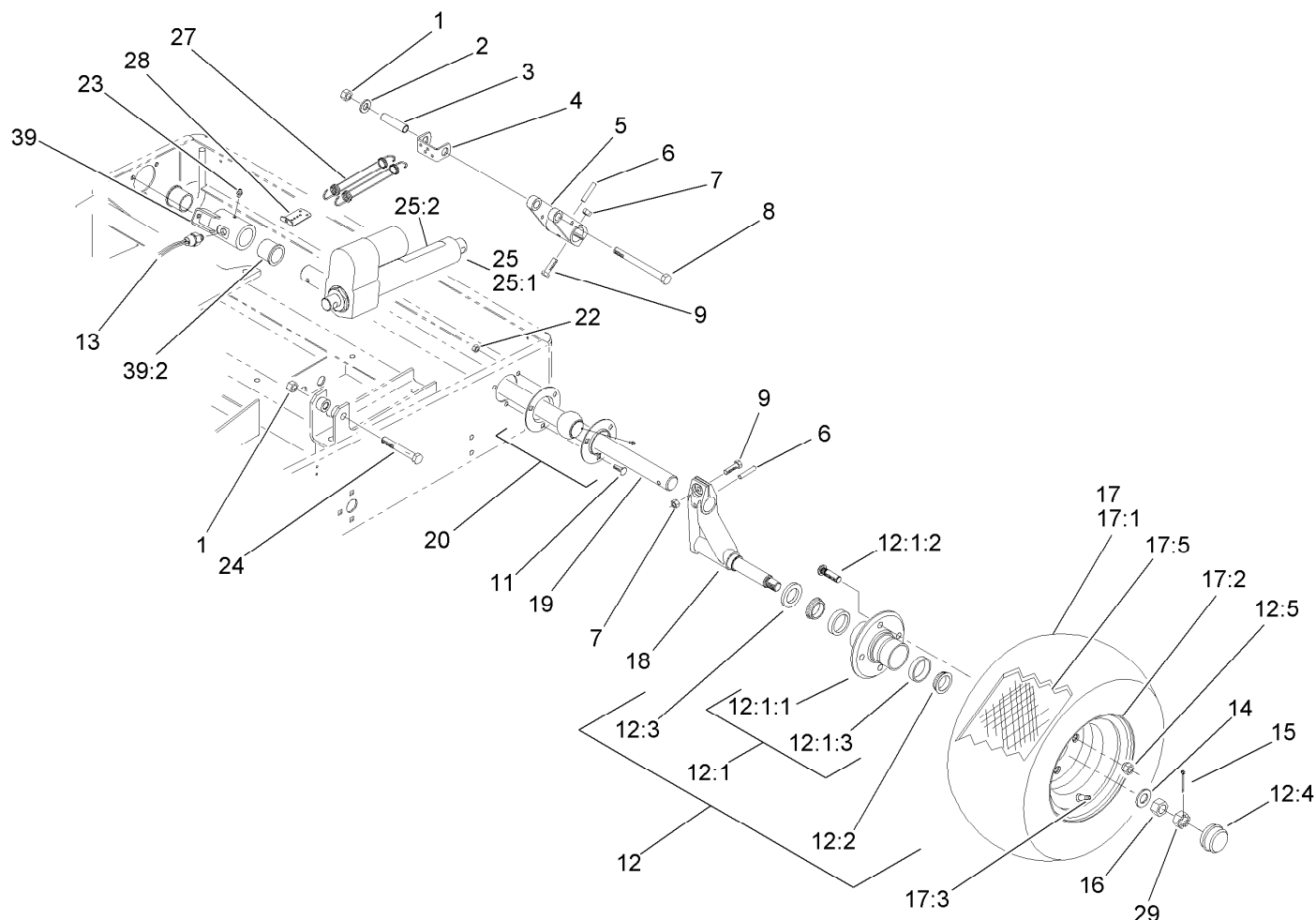
● Not serviced separately



## Hydraulic Drive Motor Assembly No. 105-4063

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    |             | 1    | Body ●              |
| 3    |             | 2    | Washer-Thrust ●     |
| 7    |             | 1    | Ring-Retaining ●    |
| 9    |             | 1    | Plate-Commutator ●  |
| 10   | 105-4065    | 1    | Igr Kit             |
| 11   |             | 1    | Ring-Retaining ●    |
| 12   |             | 1    | Plug ●              |
| 13   |             | 1    | Cover/Bearing ASM ● |
| 14   |             | 8    | Capscrew ●          |
| 15   | 105-4064    | 1    | Seal Kit            |
| 15:2 |             | 1    | O-Ring ●            |
| 15:6 |             | 1    | Seal Retainer ASM ● |
| 15:8 |             | 3    | Seal-Ring, Square ● |
| 16   | 105-4066    | 1    | Shaft Kit           |
| 16:4 |             | 1    | Shaft ●             |
| 16:5 |             | 1    | Key-Woodruff ●      |

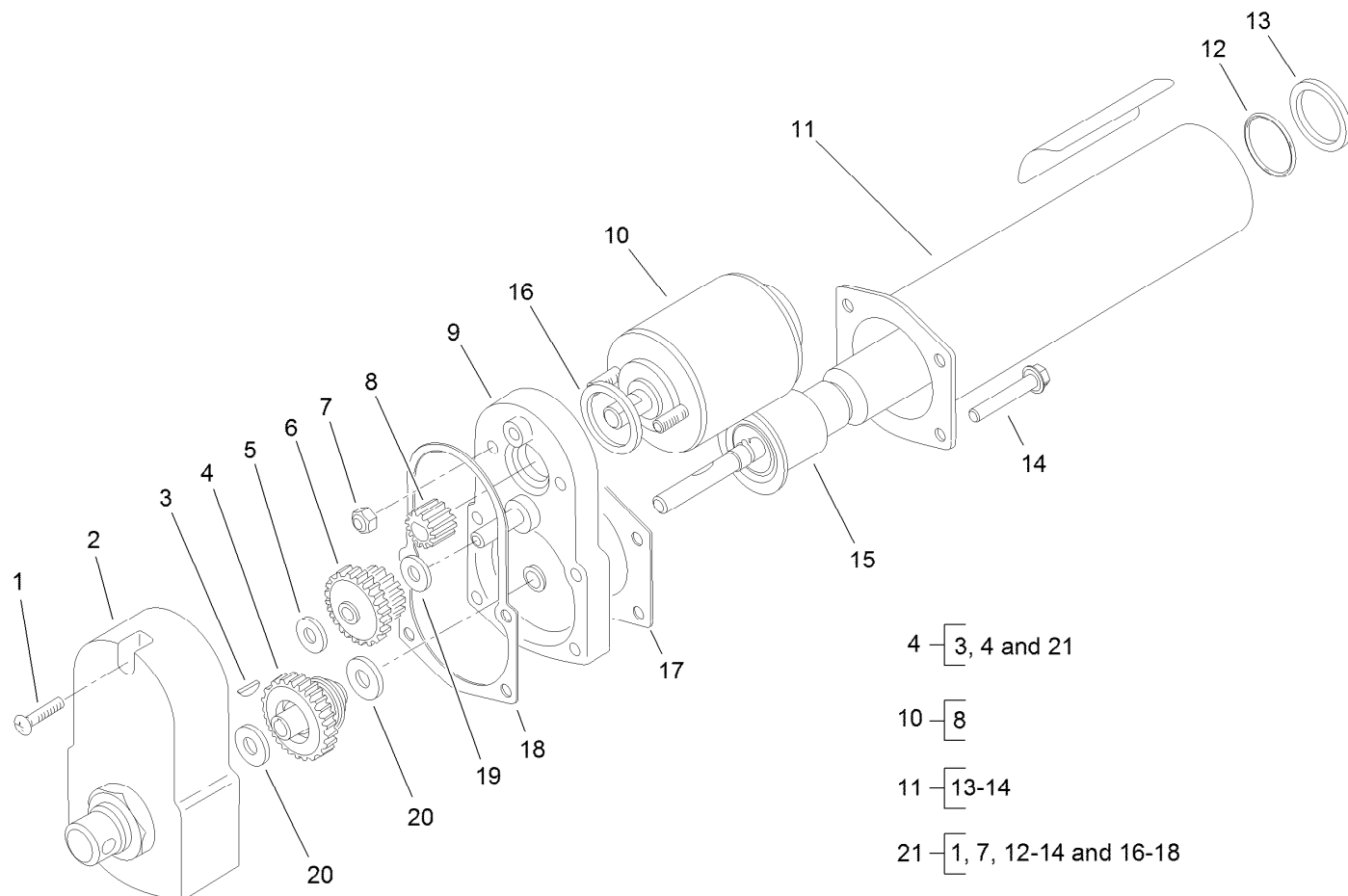
● Not serviced separately



## Rear Axle Assembly

| Ref.   | Part Number | Qty. | Description           | Ref. | Part Number | Qty. | Description                    |
|--------|-------------|------|-----------------------|------|-------------|------|--------------------------------|
| 1      | 3296-45     | 2    | Nut-Lock, NI          | 17   |             | 2    | Wheel And Tire ASM ●           |
| 2      | 3256-26     | 1    | Washer-Flat           | 17:1 | 28-3680     | 1    | Tire                           |
| 3      | 80-7970     | 1    | Tube-Return           | 17:2 | 217-60      | 1    | Rim                            |
| 4      | 80-7960     | 1    | Bracket-Spring        | 17:3 | 232-27      | 1    | Stem-Valve                     |
| 5      | 80-5140-03  | 1    | Lever-Lift            | 17:5 | 232-37      | 1    | Tube                           |
| 6      | 32121-66    | 3    | Pin-Roll              | 18   | 93-1663-01  | 2    | Arm-Lift, Masked               |
| 7      | 3296-39     | 3    | Nut-Lock, NI          | 19   | 86-8690     | 1    | Shaft-Lift                     |
| 8      | 325-22      | 1    | Screw-HH              | 20   | 80-5560     | 2    | Bushing ASM                    |
| 9      | 323-7       | 3    | Screw-HH              | 22   | 3296-29     | 6    | Nut-Lock, NI                   |
| 11     | 3230-22     | 6    | Screw-CARR            | 23   | 302-5       | 1    | Fitting-Grease                 |
| 12     | 117-5115    | 2    | Hub And Bearing ASM   | 24   | 325-14      | 1    | Screw-HH                       |
| 12:1   | 117-8251    | 1    | Hub ASM               | 25   | 14-5219     | 1    | Lift Actuator ASM              |
| 12:1:1 | 117-8262    | 1    | Hub                   | 25:1 |             | 1    | Actuator-Linear ●              |
| 12:1:2 | 114-3918    | 4    | Stud-Wheel            | 25:2 | 80-8010     | 1    | Decal-Warning, Keep Hands Away |
| 12:1:3 | 254-72      | 2    | Bearing-Cup, Tapered  | 25:2 | 83-6150     | 1    | Decal-Warning (Japan)          |
| 12:2   | 254-94      | 2    | Bearing-Cone, Tapered | 25:2 | 93-9367     | 1    | Decal-Warning                  |
| 12:3   | 112-1690    | 1    | Seal-Oil              | 27   | 80-7870     | 2    | Spring-Extension               |
| 12:4   | 241-119     | 1    | Cap-Dust              | 28   | 80-8270     | 1    | Bracket-Speed Adjust           |
| 12:5   | 242-50      | 4    | Nut-Lug               | 29   | 93-0307     | 2    | Nut-Lock, Retainer             |
| 13     | 72-4310     | 1    | Switch-Ball           | 39   | 106-9682    | 1    | Limit Switch Tube ASM          |
| 14     | 93-0309     | 2    | Washer-Tab            | 39:2 | 256-268     | 2    | Bushing                        |
| 15     | 3272-13     | 2    | Pin-Cotter            |      |             |      |                                |
| 16     | 3220-7      | 2    | Nut-Jam               |      |             |      |                                |

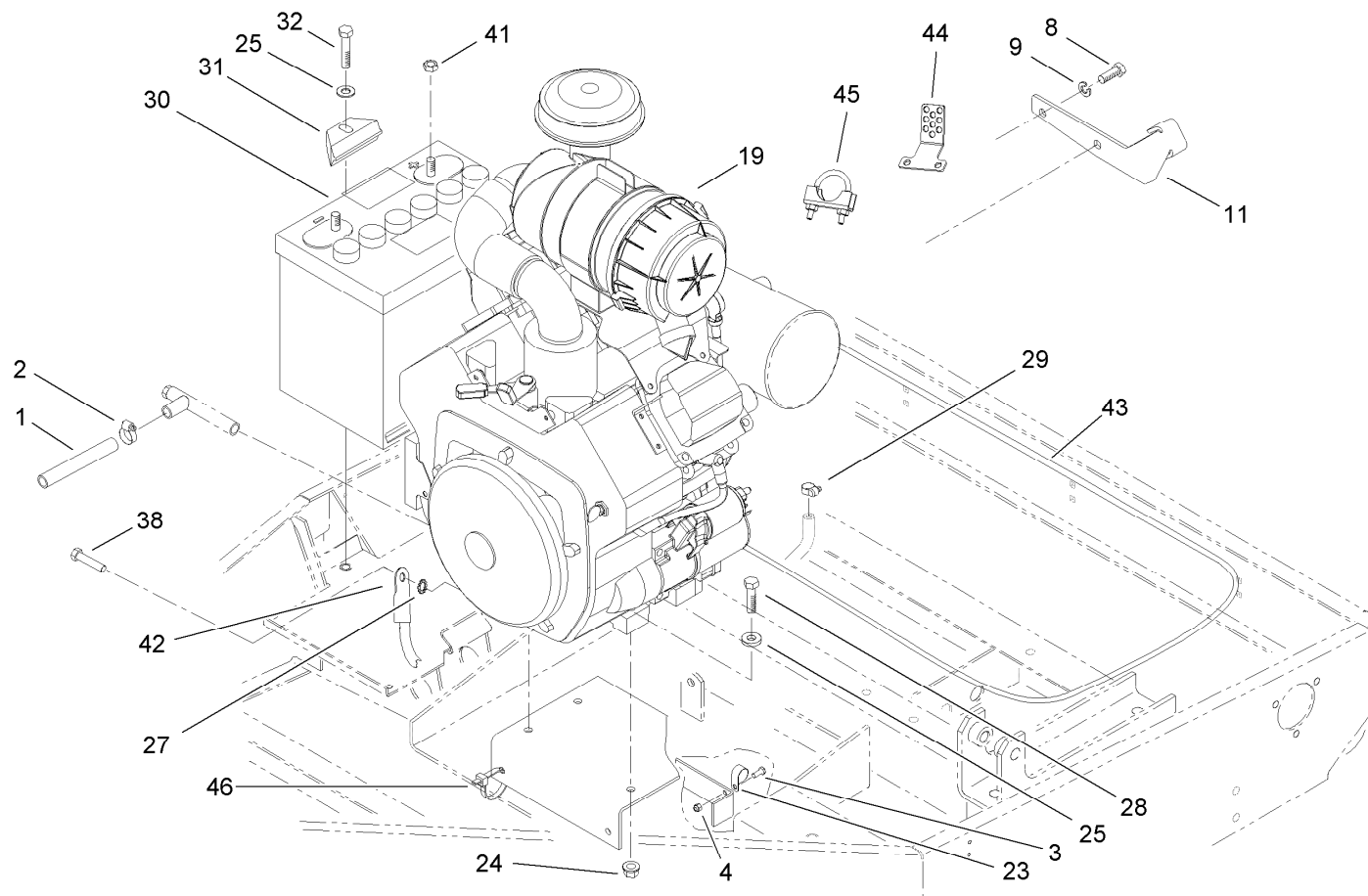
● Not serviced separately



## Lift Actuator Assembly No. 14-5219

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 1    |             | 1    | Screw ●                    |
| 2    |             | 1    | Rear Housing ASM ●         |
| 3    |             | 1    | Key-Woodruff ●             |
| 4    | 80-5530     | 1    | Clutch Kit                 |
| 5    |             | 1    | Washer ●                   |
| 6    |             | 1    | Gear-Intermediate ●        |
| 7    |             | 2    | Nut-Hex ●                  |
| 8    |             | 1    | Gear-Motor ●               |
| 9    |             | 1    | Front Housing ASM ●        |
| 10   | 80-5540     | 1    | Motor-12V                  |
| 11   | 80-5520     | 1    | Cover Tube ASM             |
| 12   |             | 1    | O-Ring ●                   |
| 13   |             | 1    | Seal-Lip ●                 |
| 14   |             | 4    | Screw-HWH ●                |
| 15   |             | 1    | Ball Screw And Brake ASM ● |
| 16   |             | 1    | Seal-Motor ●               |
| 17   |             | 1    | Gasket-Tube,Cover ●        |
| 18   |             | 1    | Gasket-Housing ●           |
| 19   |             | 1    | Washer ●                   |
| 20   |             | 2    | Washer ●                   |
| 21   | 80-5550     | 1    | Seal Kit                   |

● Not serviced separately

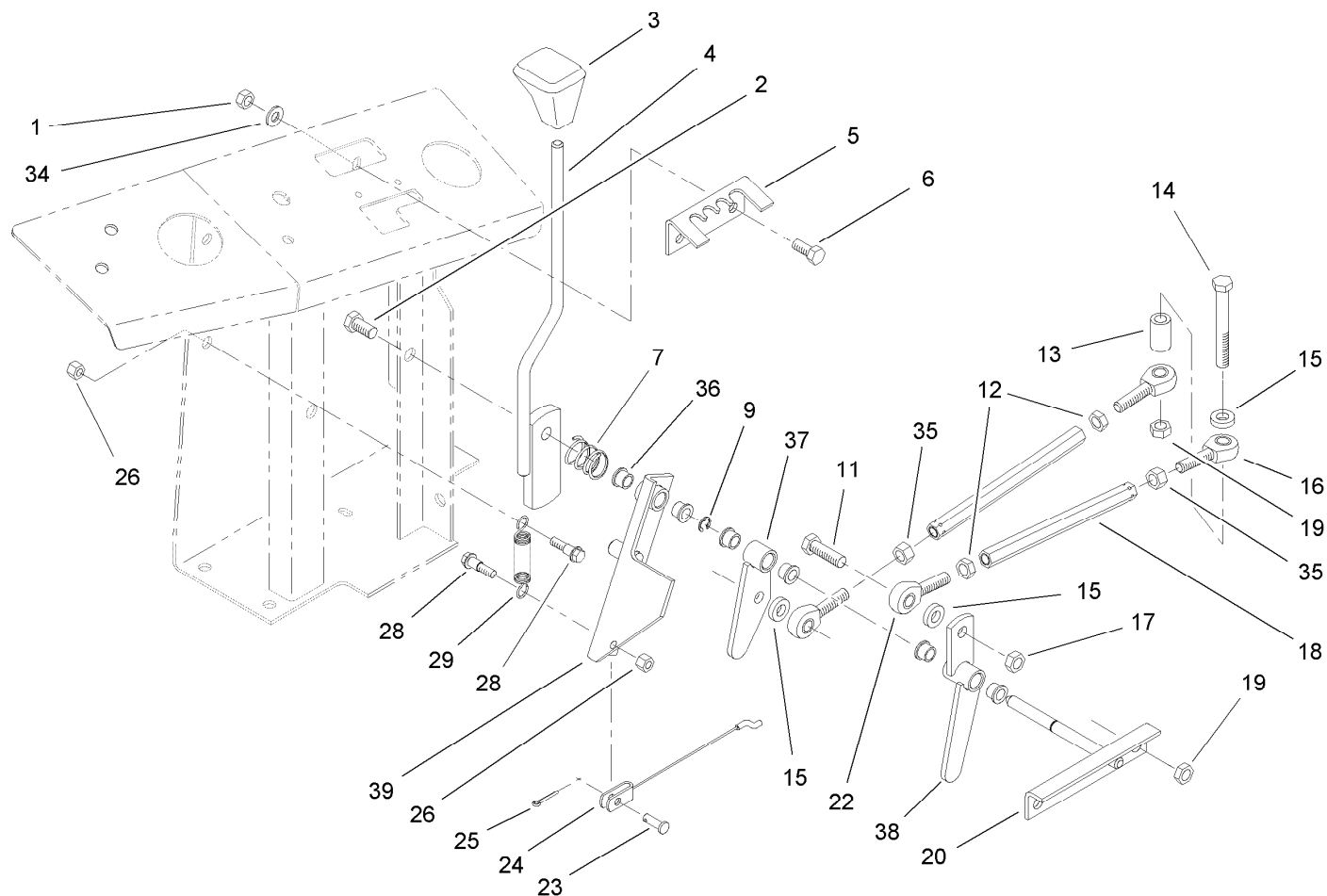


## Engine and Battery Installation Assembly

| Ref. | Part Number | Qty. | Description                     |
|------|-------------|------|---------------------------------|
| 1    | 108-1283    | 1    | Hose                            |
| 2    | 2412-36     | 1    | Clamp-Hose                      |
| 3    | 323-5       | 2    | Screw-HH                        |
| 4    | 3296-39     | 2    | Nut-Lock, NI                    |
| 8    | 324-2       | 2    | Screw-HH                        |
| 9    | 3253-6      | 2    | Washer-Lock                     |
| 11   | 108-1255-03 | 1    | Bracket-Clutch                  |
| 19   |             | 1    | Engine-Kohler, Ps-Ch740-0053 ●■ |
| 23   | 2412-126    | 2    | R-Clamp                         |
| 24   | 32128-21    | 4    | Nut-HF                          |
| 25   | 3256-24     | 5    | Washer-Flat                     |
| 27   | 3255-9      | 1    | Washer-Lock                     |
| 28   | 323-19      | 4    | Screw-HH                        |
| 29   | 2412-108    | 1    | Clamp-Worm                      |
| 30   | 108-1260    | 1    | Battery-Dry                     |
| 31   | 66-2490     | 1    | Retainer-Battery                |
| 32   | 323-9       | 1    | Screw-HH                        |
| 38   | 33104-016   | 1    | Screw-HHF                       |
| 41   | 32149-10    | 2    | Nut-Keps                        |
| 42   | 86-8470     | 1    | Cable-Battery, Negative         |
| 43   | 108-1277    | 1    | Harness-Wire, Main              |
| 44   | 108-1309    | 1    | Deflector                       |
| 45   | 2112-11     | 1    | Muffler Clamp ASM               |
| 46   | 3290-379    | 2    | Tie-Cable                       |

● Not serviced separately

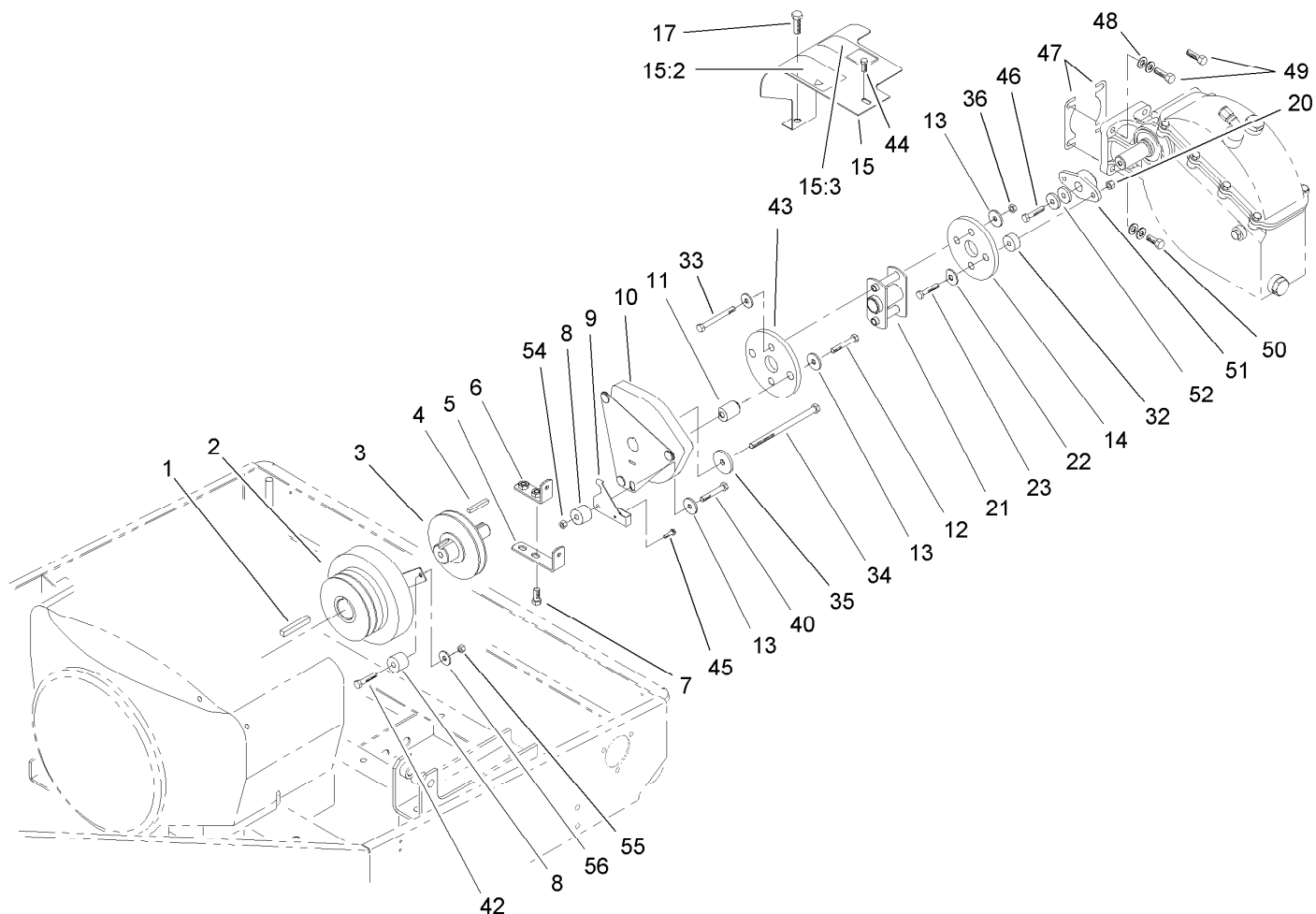
■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



## Control Linkage Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 3296-29     | 2    | Nut-Lock, NI          |
| 2    | 323-4       | 2    | Screw-HH              |
| 3    | 65-8970     | 1    | Knob-Shift            |
| 4    | 80-8400     | 1    | Control-Speed         |
| 5    | 80-7670     | 1    | Plate-Control, Speed  |
| 6    | 322-3       | 2    | Screw-HH              |
| 7    | 80-7890     | 1    | Spring-Compression    |
| 9    | 32151-47    | 1    | Ring-Retaining        |
| 11   | 323-7       | 2    | Screw-HH              |
| 12   | 3220-3      | 2    | Nut-HJ                |
| 13   | 80-7590     | 1    | Spacer                |
| 14   | 323-14      | 1    | Screw-HH              |
| 15   | 80-7730     | 3    | Spacer                |
| 16   | 2411-50     | 2    | End-Rod, LH           |
| 17   | 3296-59     | 2    | Nut-Lock, NI          |
| 18   | 80-7580     | 2    | Rod-Adjustment, Speed |

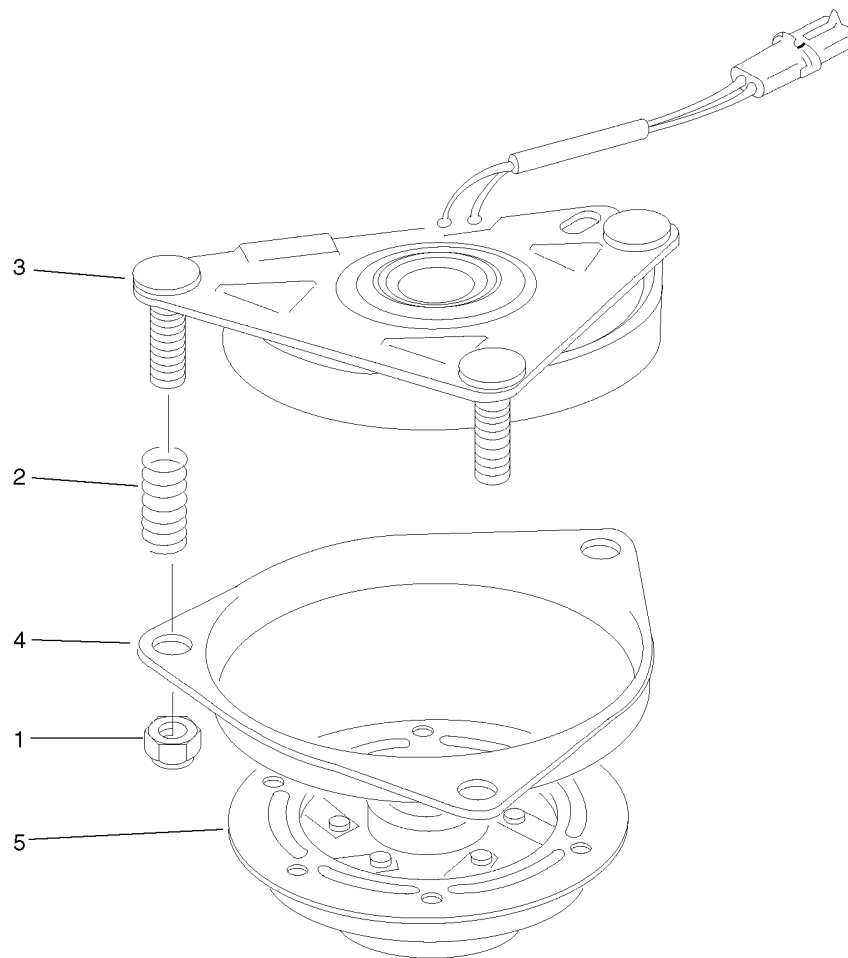
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 19   | 3296-39     | 2    | Nut-Lock, NI           |
| 20   | 80-7600     | 1    | Pin-Pivot              |
| 22   | 2411-51     | 2    | End-Rod, RH            |
| 23   | 283-67      | 1    | Pin-Clevis             |
| 24   | 80-8430     | 1    | Cable-Control, Speed   |
| 25   | 3272-4      | 1    | Pin-Cotter             |
| 26   | 3296-56     | 2    | Nut-Lock, NI           |
| 28   | 42-3560     | 2    | Bolt-Shoulder          |
| 29   | 66-4160     | 1    | Spring-Solenoid, Upper |
| 34   | 3256-23     | 2    | Washer-Flat            |
| 35   | 3219-20     | 2    | Nut-Hex, LH            |
| 36   | 256-116     | 6    | Bushing-Flange         |
| 37   | 80-7000     | 1    | Pivot                  |
| 38   | 80-7830     | 1    | Pivot                  |
| 39   | 80-7540     | 1    | Stop-Speed             |



## Gearbox Drive Assembly

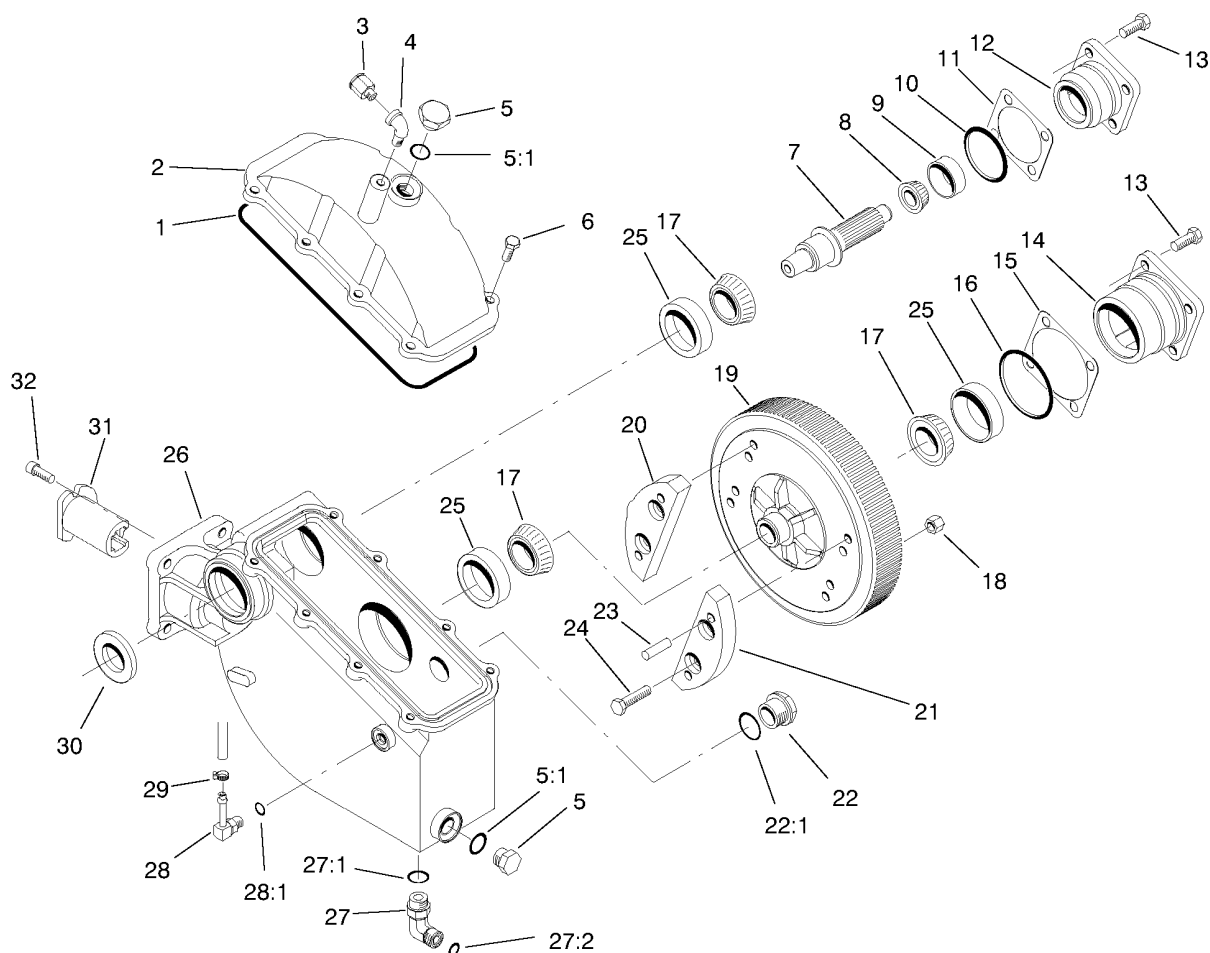
| Ref. | Part Number | Qty. | Description          |
|------|-------------|------|----------------------|
| 1    | 108-1301    | 1    | Key-Square           |
| 2    | 80-5430     | 1    | Clutch-Pump          |
| 3    | 80-9520     | 1    | Pulley-Shaft, Clutch |
| 4    | 7-0238      | 1    | Key-Square           |
| 5    | 80-9780     | 1    | Stop-Clutch          |
| 6    | 80-9760     | 1    | Stop-Clutch          |
| 7    | 323-6       | 2    | Screw-HH             |
| 8    | 108-1267    | 2    | Spacer               |
| 9    | 110-4758    | 1    | Plate-Stop           |
| 10   | 86-8160     | 1    | Clutch And Brake ASM |
| 11   | 80-9920     | 2    | Adapter-Clutch       |
| 12   | 323-10      | 2    | Screw-HH             |
| 13   | 52-2860     | 6    | Washer               |
| 14   | 115-5129    | 1    | Coupling-Rubber      |
| 15   | 14-5169     | 1    | Shield-Shaft, Drive  |
| 15:2 | 80-8000     | 1    | Decal-Warning        |
| 15:3 | 80-8040     | 1    | Decal-Warning        |
| 17   | 32144-67    | 1    | Screw                |
| 20   | 32152-5     | 2    | Nut-Hex              |
| 21   | 86-8950     | 1    | Coupler-Drive        |
| 22   | 80-8620     | 2    | Spacer-Coupler       |
| 23   | 3210-8      | 2    | Screw-HH             |
| 32   | 80-8660     | 2    | Spacer-Coupler       |

| Ref. | Part Number | Qty. | Description                |
|------|-------------|------|----------------------------|
| 33   | 3210-14     | 2    | Screw-HH                   |
| 34   | 3211-38     | 1    | Screw-HH                   |
| 35   | 80-8560     | 1    | Washer-Hardened            |
| 36   | 3296-20     | 2    | Nut-Lock, NI               |
| 40   | 323-19      | 1    | Screw-HH                   |
| 42   | 321-43      | 1    | Capscrew                   |
| 43   | 80-9910     | 1    | Coupler-Drive              |
| 44   | 32104-95    | 1    | Screw-HWH                  |
| 45   | 32144-53    | 1    | Screw-SHWH, Thd Form       |
| 46   | 3210-8      | 1    | Screw-HH                   |
| 47   | 80-7050     | 4    | Shim-Gearbox (.002 Red)    |
| 47   | 80-7051     | 4    | Shim-Gearbox (.005 Blue)   |
| 47   | 80-7052     | 4    | Shim-Gearbox (.015 Pink)   |
| 47   | 80-7053     | 4    | Shim-Gearbox (.020 Yellow) |
| 48   | 3256-24     | 6    | Washer-Flat                |
| 49   | 323-44      | 2    | Screw-HH                   |
| 50   | 323-46      | 2    | Screw-HH                   |
| 51   | 80-8180     | 1    | Hub-Adapter                |
| 52   | 5-4460      | 2    | Washer-Pivot               |
| 54   | 3290-357    | 1    | Nut-HHF, Whiz              |
| 55   | 3217-5      | 1    | Nut-Hex                    |
| 56   | 3253-3      | 1    | Washer-Lock                |



## Electric Clutch Assembly No. 86-8160

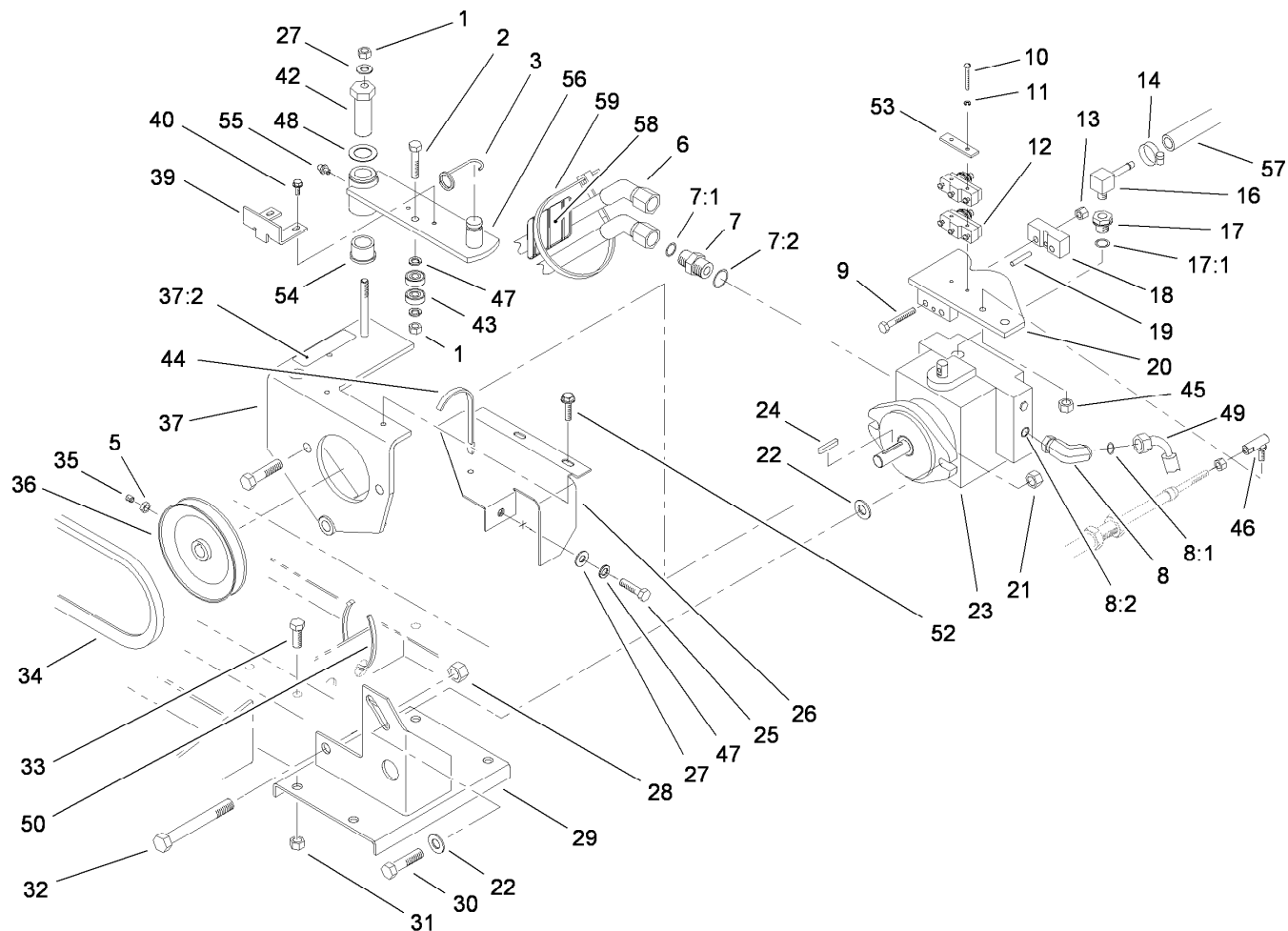
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>  |
|-------------|--------------------|-------------|---------------------|
| 1           | 3296-6             | 3           | Nut-Lock            |
| 2           | 44-8320            | 3           | Spring              |
| 3           | 67-7050            | 1           | Field And Rotor ASM |
| 4           | 67-7100            | 1           | Plate-Brake         |
| 5           | 86-8170            | 1           | Armature-Hub        |



## Gearbox Assembly

| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 237-171     | 1    | O-Ring                    |
| 2    | 80-5260-03  | 1    | Cover                     |
| 3    | 80-7020     | 1    | Vent-Filter               |
| 4    | 2811-7      | 1    | Elbow                     |
| 5    | 353-550     | 2    | Plug-HYD, HH              |
| 5:1  | 237-79      | 1    | O-Ring                    |
| 6    | 322-4       | 8    | Screw-HH                  |
| 7    | 80-8340     | 1    | Shaft-Pinion, Tapered     |
| 8    | 254-68      | 1    | Cone-Bearing, Roller      |
| 9    | 254-67      | 1    | Cup-Bearing, Roller       |
| 10   | 237-172     | 1    | O-Ring                    |
| 11   | 80-7030     | 4    | Shim-Pinion (.002 Red)    |
| 11   | 80-7031     | 4    | Shim-Pinion (.005 Blue)   |
| 11   | 80-7032     | 4    | Shim-Pinion (.015 Pink)   |
| 11   | 80-7033     | 4    | Shim-Pinion (.020 Yellow) |
| 12   | 80-5320     | 1    | Housing-Bearing, Pinion   |
| 13   | 323-5       | 8    | Screw-HH                  |
| 14   | 80-5300     | 1    | Housing-Bearing, Gear     |
| 15   | 80-7040     | 4    | Shim-Gear (.002 Red)      |
| 15   | 80-7041     | 4    | Shim-Gear (.005 Blue)     |
| 15   | 80-7042     | 4    | Shim-Gear (.015 Pink)     |
| 15   | 80-7043     | 4    | Shim-Gear (.020 Yellow)   |

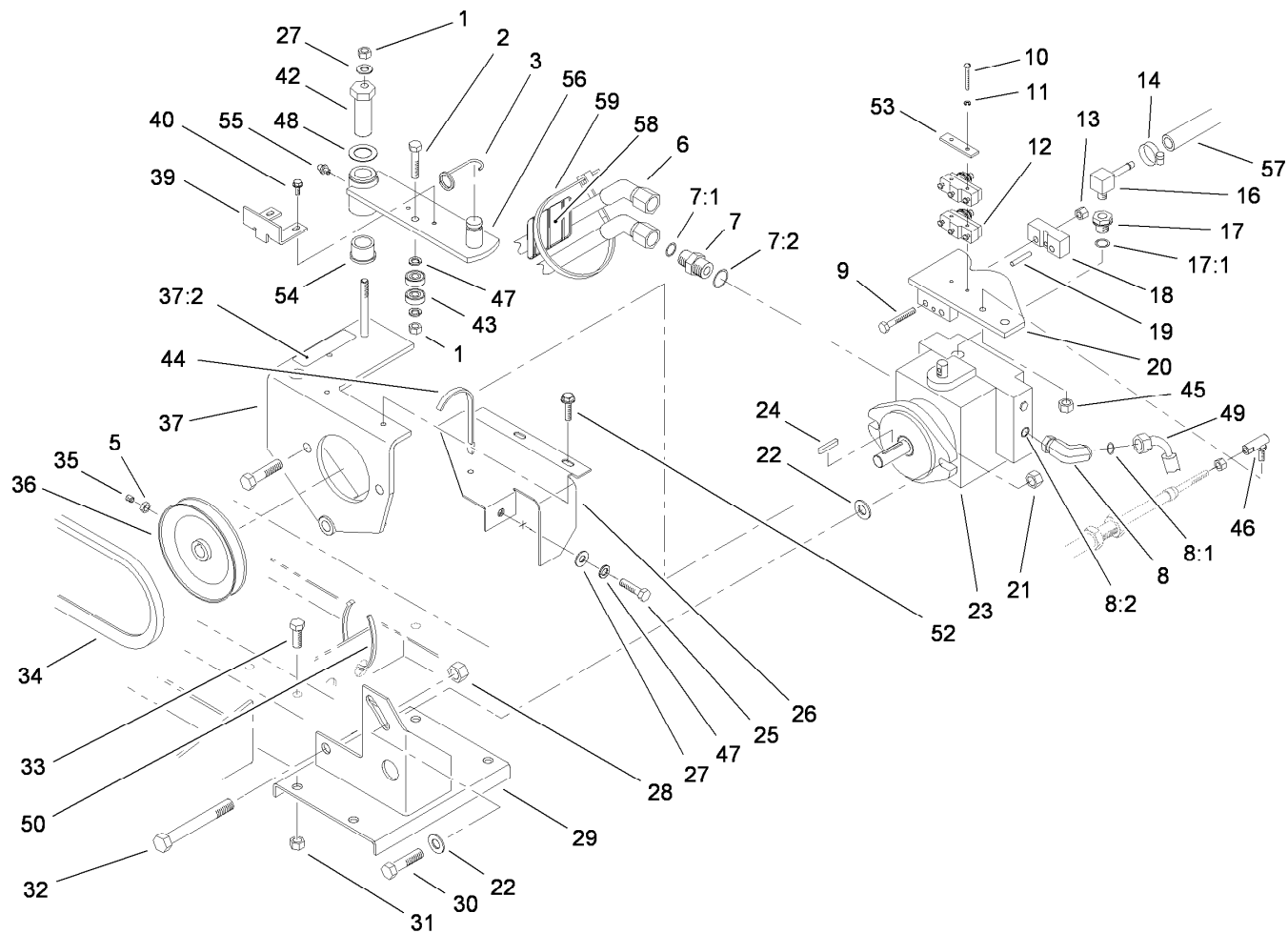
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 16   | 237-25      | 1    | O Ring                |
| 17   | 254-62      | 3    | Bearing-Roller, Cone  |
| 18   | 3296-39     | 4    | Nut-Lock, NI          |
| 19   | 80-5280     | 1    | Gear                  |
| 20   | 80-8500     | 1    | Cam                   |
| 21   | 80-8510     | 1    | Block-Weight          |
| 22   | 69-1170     | 1    | Glass-Sight           |
| 22:1 | 237-81      | 1    | O-Ring                |
| 23   | 32121-42    | 4    | Pin-Roll              |
| 24   | 323-52      | 4    | Screw-HH              |
| 25   | 254-61      | 3    | Cup-Bearing, Roller   |
| 26   | 80-5240     | 1    | Gearbox               |
| 27   | 340-98      | 1    | Fitting-HYD, 90 DEG   |
| 27:1 | 237-79      | 1    | O-Ring                |
| 27:2 | 237-30      | 1    | O-Ring                |
| 28   | 304-99      | 1    | Stem-Hose             |
| 28:1 | 237-78      | 1    | O-Ring                |
| 29   | 2412-108    | 1    | Clamp-Worm            |
| 30   | 253-148     | 1    | Seal                  |
| 31   | 80-5330     | 1    | Bushing-Follower, Cam |
| 32   | 3274-10     | 2    | Screw-HSH             |



## Hydraulic Pump Installation Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 3296-29     | 2    | Nut-Lock, NI          |
| 2    | 322-17      | 1    | Screw-HH              |
| 3    | 80-6610     | 1    | Spring-Extension      |
| 5    | 3218-1      | 2    | Nut-Jam               |
| 6    | 80-7330     | 2    | Hose ASM              |
| 7    | 340-4       | 2    | Fitting-HYD, Straight |
| 7:1  | 237-30      | 1    | O-Ring                |
| 7:2  | 237-79      | 1    | O-Ring                |
| 8    | 340-77      | 1    | Fitting-HYD, 90 DEG   |
| 8:1  | 237-22      | 1    | O-Ring                |
| 8:2  | 237-42      | 1    | O-Ring                |
| 9    | 321-10      | 2    | Screw-HH              |
| 10   | 32105-25    | 2    | Screw-SHH             |
| 11   | 3254-9      | 2    | Washer-Lock, Internal |
| 12   | 29-6162     | 2    | Switch-Micro          |
| 13   | 3296-42     | 2    | Nut-Lock, NI          |
| 14   | 2412-108    | 1    | Clamp-Worm            |
| 16   | 304-75      | 1    | Connector-Hose        |
| 17   | 80-7320     | 1    | Fitting-Adapter       |
| 17:1 | 237-42      | 1    | O-Ring                |
| 18   | 80-9320     | 1    | Clamp-Traction        |
| 19   | 32121-34    | 1    | Pin-Roll              |
| 20   | 80-7800-03  | 1    | Lever-Pump            |
| 21   | 32128-37    | 2    | Nut-HF                |
| 22   | 3256-25     | 2    | Washer-Flat           |
| 23   | 114-4116    | 1    | Pump-Hydraulic        |
| 24   | 80-6090     | 1    | Key-Pump              |
| 25   | 322-5       | 1    | Screw-HH              |

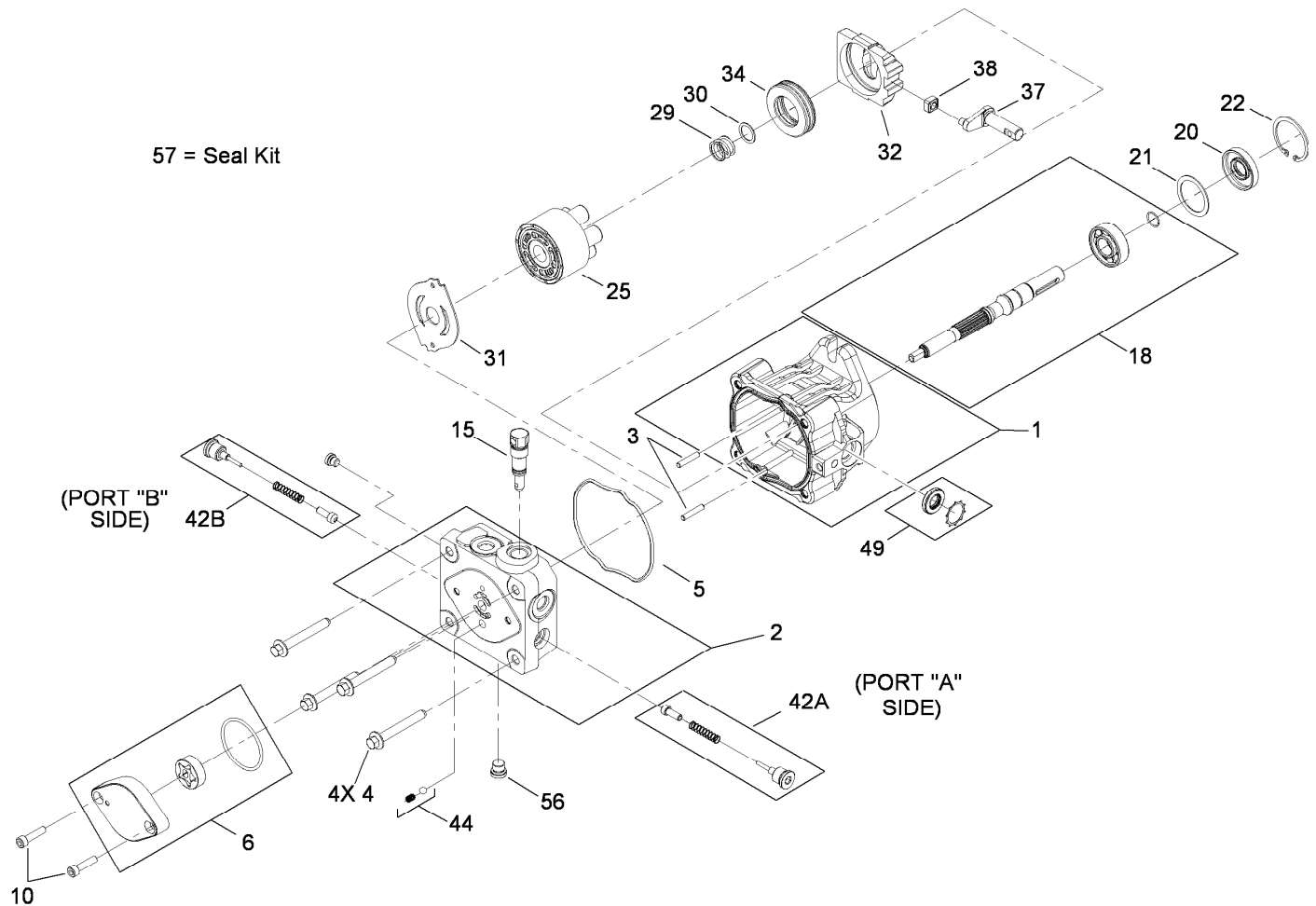
| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 26   | 108-1307-03 | 1    | Guard-Pulley          |
| 27   | 3256-23     | 2    | Washer-Flat           |
| 28   | 3296-23     | 1    | Nut-Lock, NI          |
| 29   | 80-7460-03  | 1    | Support-Pump          |
| 30   | 324-6       | 2    | Screw-HH              |
| 31   | 3296-39     | 4    | Nut-Lock, NI          |
| 32   | 325-17      | 1    | Screw-HH              |
| 33   | 323-6       | 4    | Screw-HH              |
| 34   | 80-6720     | 1    | V-Belt                |
| 35   | 3245-5      | 2    | Screw-Set             |
| 36   | 80-8170     | 1    | Pulley-Pump, Traction |
| 37   | 14-5209     | 1    | Mount-Pump, HYD       |
| 37:2 | 80-8760     | 1    | Decal-Danger          |
| 39   | 80-7770     | 1    | Tab-Switch            |
| 40   | 32104-60    | 2    | Screw-HWH             |
| 42   | 76-8640     | 1    | Stud-Traction         |
| 43   | 251-307     | 2    | Bearing-Ball          |
| 44   | 3290-410    | 1    | Tie-Mount, Push       |
| 45   | 3296-3      | 1    | Nut-Lock              |
| 46   | 2411-34     | 1    | Joint-Ball            |
| 47   | 3253-4      | 3    | Washer-Lock           |
| 48   | 3-6498      | 1    | Washer-Thrust         |
| 49   | 80-7350     | 1    | Hose ASM              |
| 50   | 3290-378    | 1    | Tie-Cable             |
| 52   | 32104-95    | 2    | Screw-HWH             |
| 53   | 61-2990     | 1    | Spacer                |
| 54   | 256-113     | 2    | Bushing-Flange        |
| 55   | 302-5       | 1    | Fitting-Grease        |



## Hydraulic Pump Installation Assembly (continued)

| Ref. | Part Number | Qty. | Description   |
|------|-------------|------|---------------|
| 56   | 80-7630-03  | 1    | Lever-Neutral |
| 57   | 110-1876    | 1    | Hose-Fuel     |

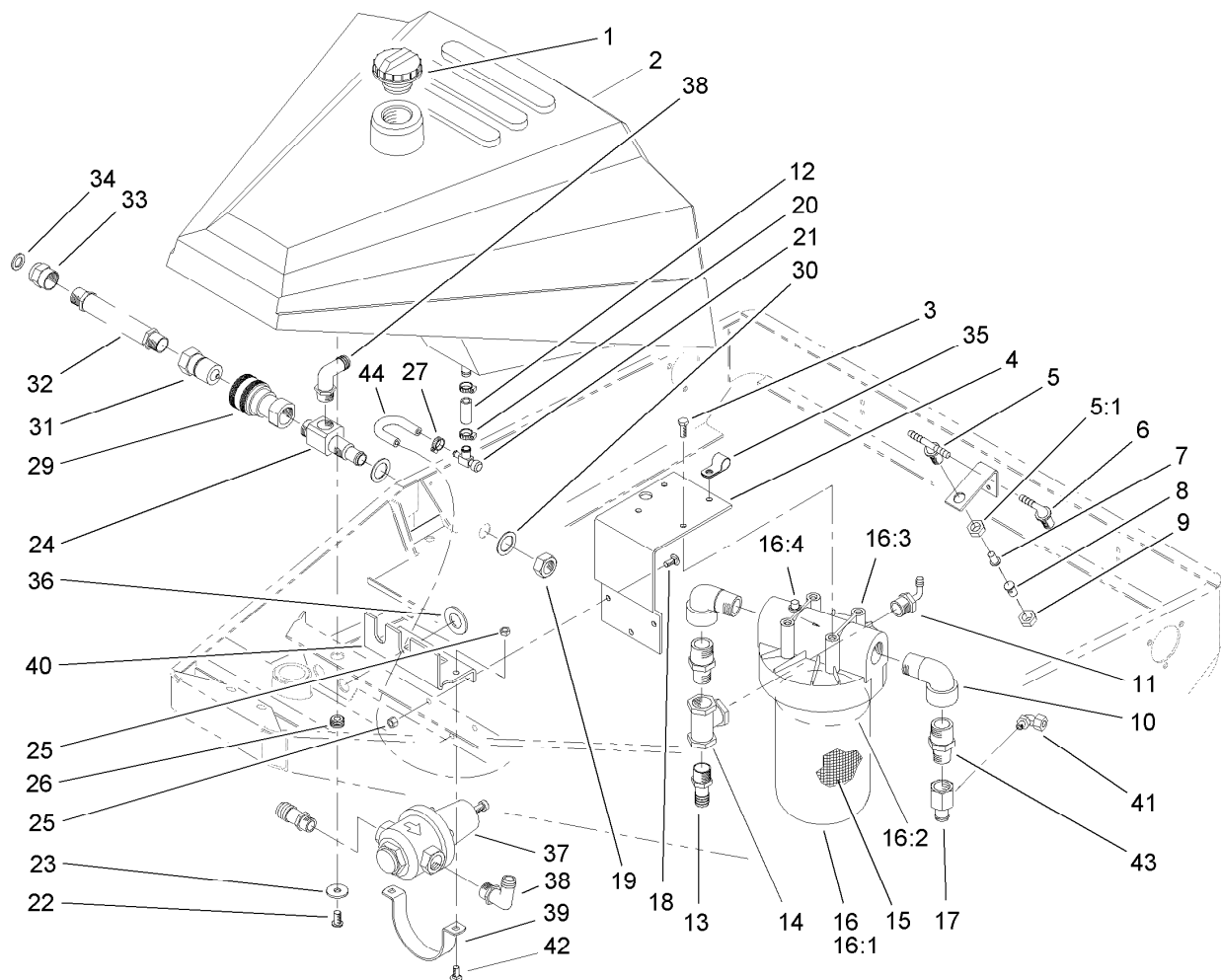
| Ref. | Part Number | Qty. | Description |
|------|-------------|------|-------------|
| 58   | 108-1339    | 1    | Guard-Hose  |
| 59   | 3290-379    | 3    | Tie-Cable   |



## Hydraulic Pump Assembly No. 114-4116

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 1    | 114-0278    | 1    | Housing Kit             |
| 2    | 106-8752    | 1    | End Cap Kit (W/Poppets) |
| 3    | 106-8753    | 2    | Pin-Headless, Straight  |
| 4    | 106-8754    | 4    | Bolt-HF                 |
| 5    | 106-8755    | 1    | O-Ring                  |
| 6    | 106-8756    | 1    | Charge Pump Kit         |
| 10   | 106-8758    | 2    | Screw-HSH               |
| 15   | 106-8759    | 1    | Bypass Valve Kit        |
| 18   | 103-2664    | 1    | Input Shaft Kit         |
| 20   | 104-5310    | 1    | Seal-Lip                |
| 21   | 104-5308    | 1    | Spacer                  |
| 22   | 104-5309    | 1    | Ring-Retaining          |
| 25   | 103-2666    | 1    | Cylinder Block Kit      |

| Ref. | Part Number | Qty. | Description                  |
|------|-------------|------|------------------------------|
| 29   | 94-1936     | 1    | Spring-Block                 |
| 30   | 94-1937     | 1    | Washer-Thrust, Block         |
| 31   | 105-6185    | 1    | Plate-Valve                  |
| 32   | 94-1907     | 1    | Swashplate-Variable          |
| 34   | 94-6922     | 1    | Bearing-Thrust               |
| 37   | 94-1909     | 1    | Arm-Trunion                  |
| 38   | 94-1910     | 1    | Guide-Slot                   |
| 42   | 114-4133    | 2    | Valve-Check, W/Poppet        |
| 44   | 106-8760    | 1    | Charge Relief Valve Kit      |
| 49   | 106-8761    | 1    | Trunnion Seal / Retainer Kit |
| 56   | 106-8762    | 1    | Plug-HSH                     |
| 57   | 105-6184    | 1    | Seal Overhaul Kit            |



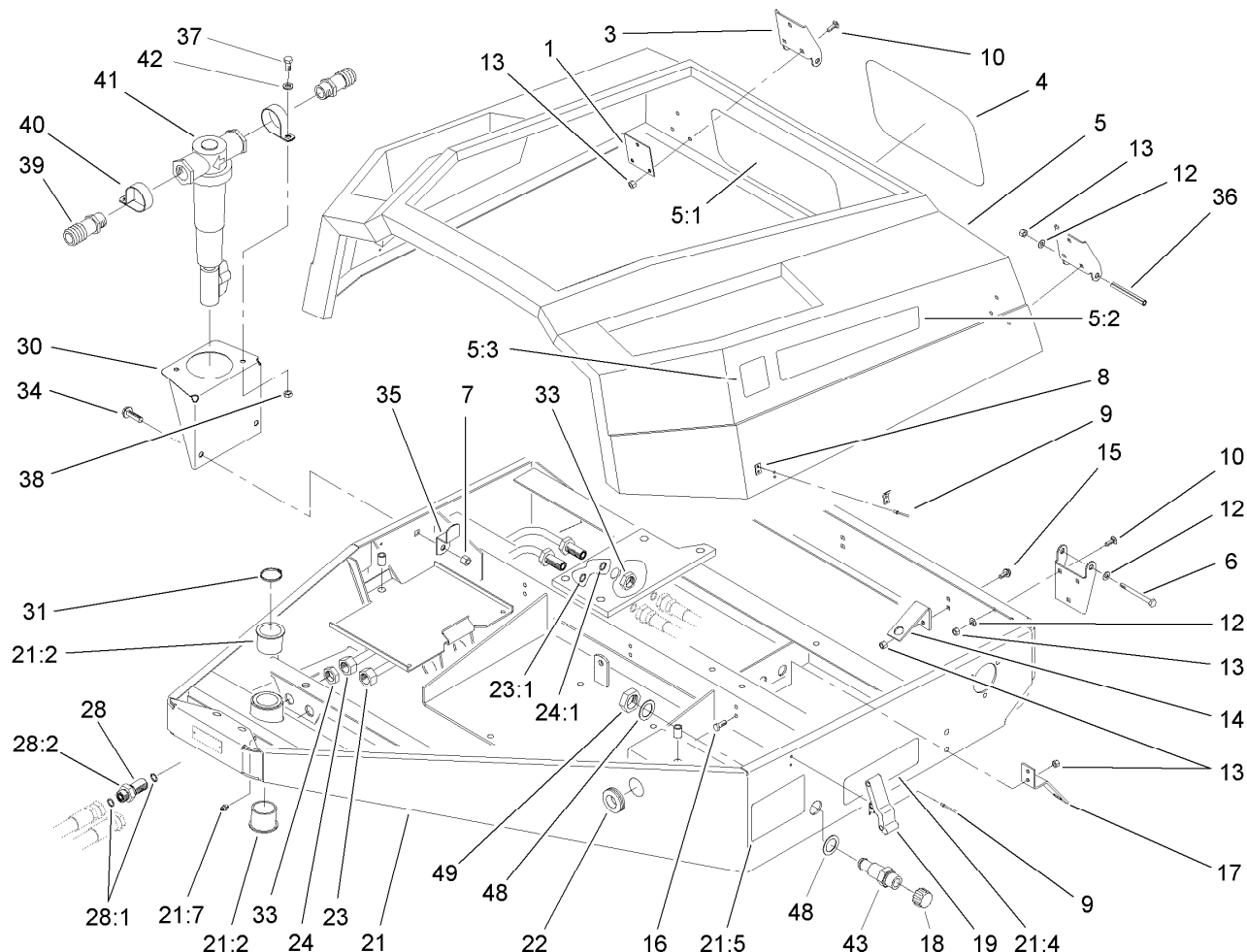
## Fuel Tank and Water Inlet Assembly

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 1    | 93-3101     | 1    | Cap-Fuel              |
| 2    | 108-1256    | 1    | Tank-Fuel             |
| 3    | 32144-41    | 4    | Screw-Taptite         |
| 4    | 80-8610-03  | 1    | Strap-Mount, Filter   |
| 5    | 355-1       | 4    | Fitting-Tee           |
| 5:1  |             | 1    | Nut ■                 |
| 6    | 355-2       | 2    | Fitting-Elbow, 90 DEG |
| 7    | 355-5       | 6    | Strainer              |
| 8    | 355-6       | 6    | Nozzle                |
| 9    | 355-4       | 6    | Cap-Nozzle            |
| 10   | 95-5675     | 2    | Fitting-Elbow         |
| 11   | 354-106     | 1    | Fitting               |
| 12   | 106-1128    | 1    | Hose-Fuel             |
| 13   | 354-98      | 2    | Fitting-Straight      |
| 14   | 354-133     | 1    | Tee                   |
| 15   | 86-8630     | 1    | Filter-Water          |
| 16   | 80-8600     | 1    | Housing-Filter        |
| 16:1 | 80-8930     | 1    | Can-Filter, Water     |
| 16:2 | 237-176     | 1    | O-Ring                |
| 16:3 | 80-9600     | 1    | Head-Filter, Water    |
| 16:4 | 80-8940     | 1    | Button Kit            |
| 17   | 86-8640     | 1    | Fitting-Adapter       |
| 18   | 3230-1      | 3    | Bolt-CARR             |
| 19   | 3296-49     | 1    | Nut-Lock, NI          |
| 20   | 2412-36     | 2    | Clamp-Hose            |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 21   | 56-2520     | 1    | Fitting-Shut Off, Fuel |
| 22   | 323-5       | 4    | Screw-HH               |
| 23   | 63-8410     | 4    | Washer                 |
| 24   | 86-9160     | 1    | Adapter-Bulkhead       |
| 25   | 3296-29     | 5    | Nut-Lock, NI           |
| 26   | 240-11      | 4    | Bushing-Flange         |
| 27   | 2412-108    | 1    | Clamp-Worm             |
| 29   | 354-88      | 1    | Coupler-Female         |
| 30   | 3256-42     | 2    | Washer-Flat            |
| 31   | 354-89      | 1    | Coupler-Male           |
| 32   | 80-6740     | 1    | Intake Hose ASM        |
| 33   | 354-109     | 1    | Fitting                |
| 34   | 3290-494    | 1    | Washer-Rubber          |
| 35   | 2412-41     | 1    | Clamp                  |
| 36   | 3256-29     | 2    | Washer-Flat            |
| 37   | 86-9170     | 1    | Valve-Regulator        |
| 38   | 354-100     | 2    | Fitting-90 DEG         |
| 39   | 92-9538-01  | 1    | Strap-Regulator        |
| 40   | 92-9537-01  | 1    | Bracket-Regulator      |
| 41   | 354-101     | 1    | Fitting                |
| 42   | 3230-2      | 2    | Bolt-CARR              |
| 43   | 95-5676     | 2    | Fitting-Reducer        |
| 44   | 106-1126    | 1    | Hose-Fuel              |
| 99   | 80-9510     | 1    | Wrench-Spanner ●       |

● Not illustrated

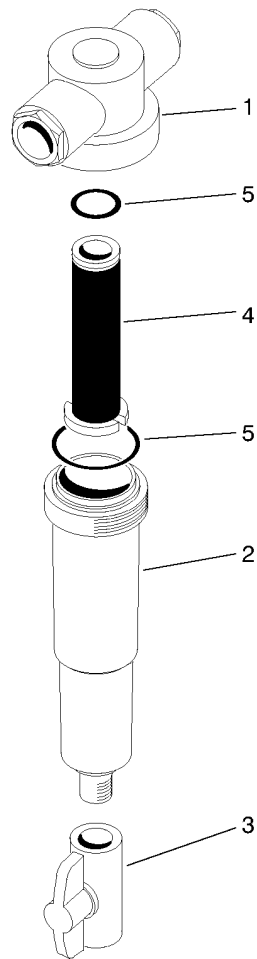
■ Not serviced separately



## Frame and Cover Assembly

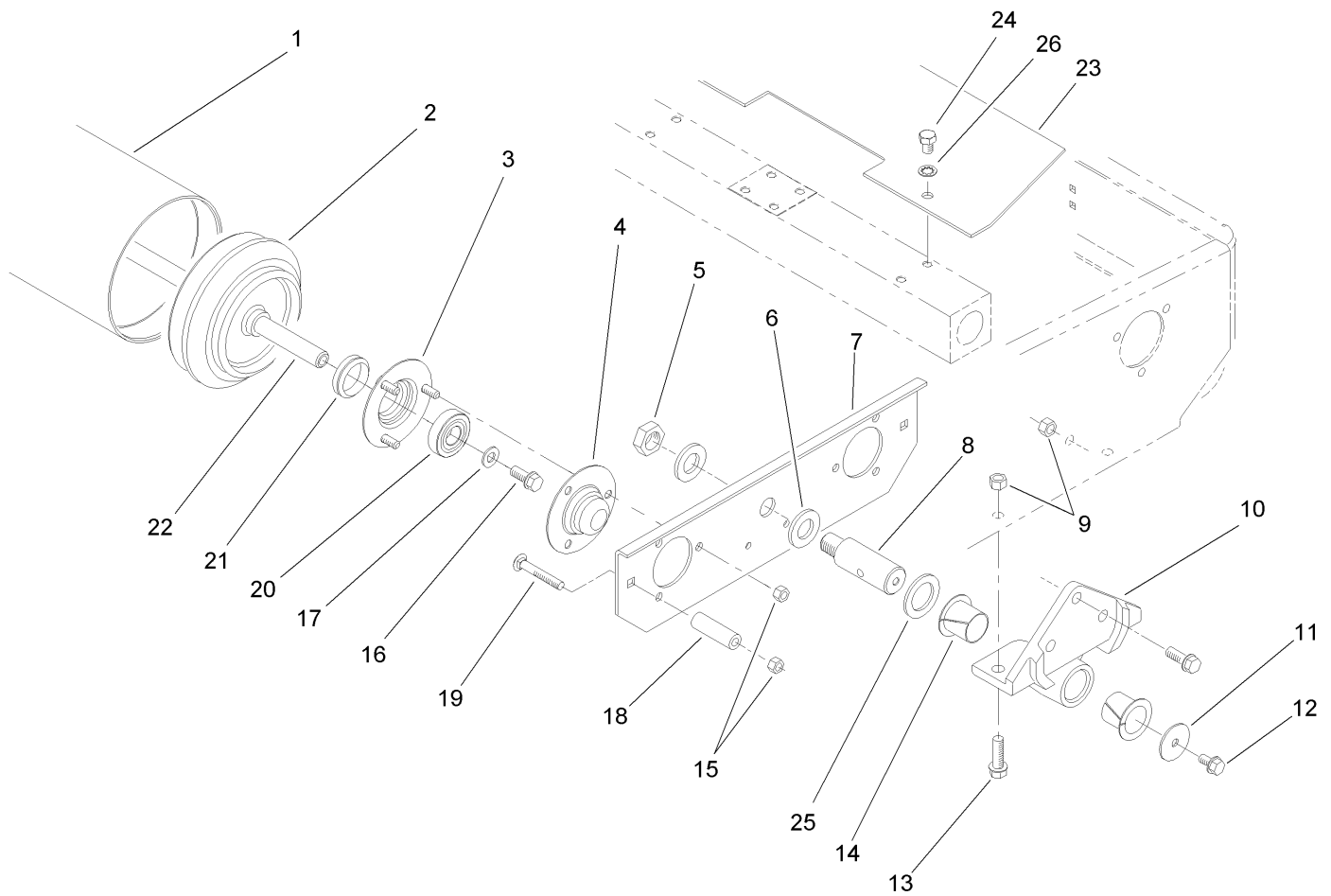
| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 1    | 80-9090-03  | 2    | Plate-Back Up            |
| 3    | 80-9080-03  | 4    | Hinge                    |
| 4    | 67-7310     | 1    | Decal                    |
| 5    | 108-1294    | 1    | Hood ASM                 |
| 5:1  | 115-3026    | 1    | Decal-Service, Hydroject |
| 5:2  | 108-1293    | 2    | Decal                    |
| 5:3  | 105-1217    | 2    | Decal                    |
| 6    | 321-28      | 2    | Screw-HH                 |
| 7    | 3296-39     | 2    | Nut-Lock, NI             |
| 8    | 80-9260     | 2    | Plate-Back Up            |
| 9    | 3269-25     | 8    | Rivet-Pop                |
| 10   | 3229-1      | 12   | Screw-CARR               |
| 12   | 3256-22     | 10   | Washer-Flat              |
| 13   | 3296-42     | 26   | Nut-Lock, NI             |
| 14   | 80-9050     | 3    | Bracket-Nozzle, Rear     |
| 15   | 3234-4      | 6    | Screw-HHF                |
| 16   | 321-4       | 6    | Screw-HH                 |
| 17   | 80-9060     | 3    | Bracket-Nozzle, Front    |
| 18   | 354-113     | 1    | Fitting-Cap              |
| 19   | 80-6980     | 2    | Latch                    |
| 21   | 108-1275    | 1    | Frame ASM                |
| 21:2 | 256-245     | 2    | Bushing-Flange           |
| 21:4 | 80-8090     | 3    | Decal-Warning            |
| 21:5 | 92-9542     | 2    | Decal-Important          |

| Ref. | Part Number | Qty. | Description      |
|------|-------------|------|------------------|
| 21:7 | 302-5       | 1    | Fitting-Grease   |
| 22   | 240-3       | 2    | Grommet-Rubber   |
| 23   | 80-6640     | 1    | Tube ASM         |
| 23:1 | 237-30      | 1    | O-Ring           |
| 24   | 80-6630     | 1    | Tube ASM         |
| 24:1 | 237-30      | 1    | O-Ring           |
| 28   | 340-161     | 2    | Fitting-Bulkhead |
| 28:1 | 237-30      | 2    | O-Ring           |
| 28:2 | 340-127     | 1    | Nut-Bulkhead     |
| 30   | 86-9090-01  | 1    | Bracket-Filter   |
| 31   | 32151-44    | 1    | Ring-Retaining   |
| 33   | 340-127     | 2    | Nut-Bulkhead     |
| 34   | 3234-24     | 2    | Screw-HHF        |
| 35   | 80-8580     | 1    | Clip-Hood        |
| 36   | 80-9310     | 2    | Spacer-Tub       |
| 37   | 322-3       | 2    | Screw-HH         |
| 38   | 3296-29     | 2    | Nut-Lock, NI     |
| 39   | 354-98      | 2    | Fitting-Straight |
| 40   | 2412-147    | 2    | Clamp            |
| 41   | 86-9100     | 1    | Filter ASM       |
| 42   | 3256-23     | 2    | Washer-Flat      |
| 43   | 80-9500     | 1    | Adapter-Bulkhead |
| 48   | 3256-42     | 2    | Washer-Flat      |
| 49   | 3296-49     | 1    | Nut-Lock, NI     |



## Pre-Filter Assembly No. 86-9100

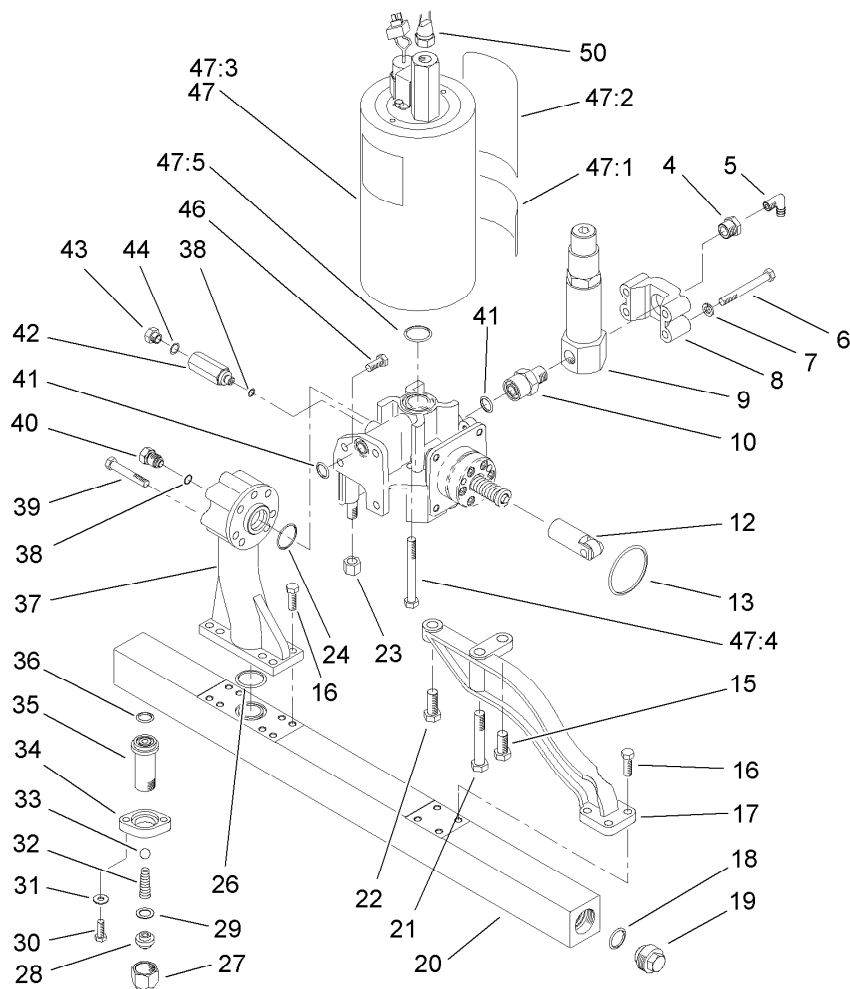
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 1           | 86-9110            | 1           | Head-Filter        |
| 2           | 86-9120            | 1           | Trapper-Sediment   |
| 3           | 86-9130            | 1           | Valve-Flush        |
| 4           | 86-9140            | 1           | Screen-Mesh, 100   |
| 5           | 86-9150            | 1           | O-Ring Kit         |



## Roller Assembly

| Ref. | Part Number | Qty. | Description        |
|------|-------------|------|--------------------|
| 1    | 80-8740     | 1    | Roller-Front       |
| 2    | 80-5200-03  | 1    | Cap-End            |
| 3    | 80-8550     | 4    | Flange             |
| 4    | 80-8530     | 4    | Flange             |
| 5    | 3296-15     | 2    | Nut-Lock, NI       |
| 6    | 3256-28     | 4    | Washer-Flat        |
| 7    | 80-8710-03  | 2    | Plate-Side, Roller |
| 8    | 80-8690     | 2    | Pin-Pivot, Roller  |
| 9    | 3296-39     | 10   | Nut-Lock, NI       |
| 10   | 80-8330-01  | 2    | Pivot-Roller       |
| 11   | 3256-68     | 2    | Washer-Flat        |
| 12   | 3234-14     | 2    | Screw-HHF          |
| 13   | 3234-24     | 10   | Screw-HHF          |

| Ref. | Part Number | Qty. | Description           |
|------|-------------|------|-----------------------|
| 14   | 256-318     | 4    | Bearing-Nyliner       |
| 15   | 3296-29     | 16   | Nut-Lock, NI          |
| 16   | 3234-25     | 4    | Screw-HHF             |
| 17   | 80-6990     | 4    | Washer-Hardened       |
| 18   | 80-8720     | 4    | Stop-Roller           |
| 19   | 3230-8      | 4    | Screw-CARR            |
| 20   | 109842      | 4    | Bearing-Ball          |
| 21   | 253-167     | 4    | V-Seal                |
| 22   | 80-8730     | 2    | Shaft-Roller          |
| 23   | 80-9180-03  | 2    | Shield-Manifold       |
| 24   | 323-2       | 6    | Screw-HH              |
| 25   | 3-6781      | 2    | Washer-Thrust         |
| 26   | 3254-6      | 6    | Washer-Lock, Internal |

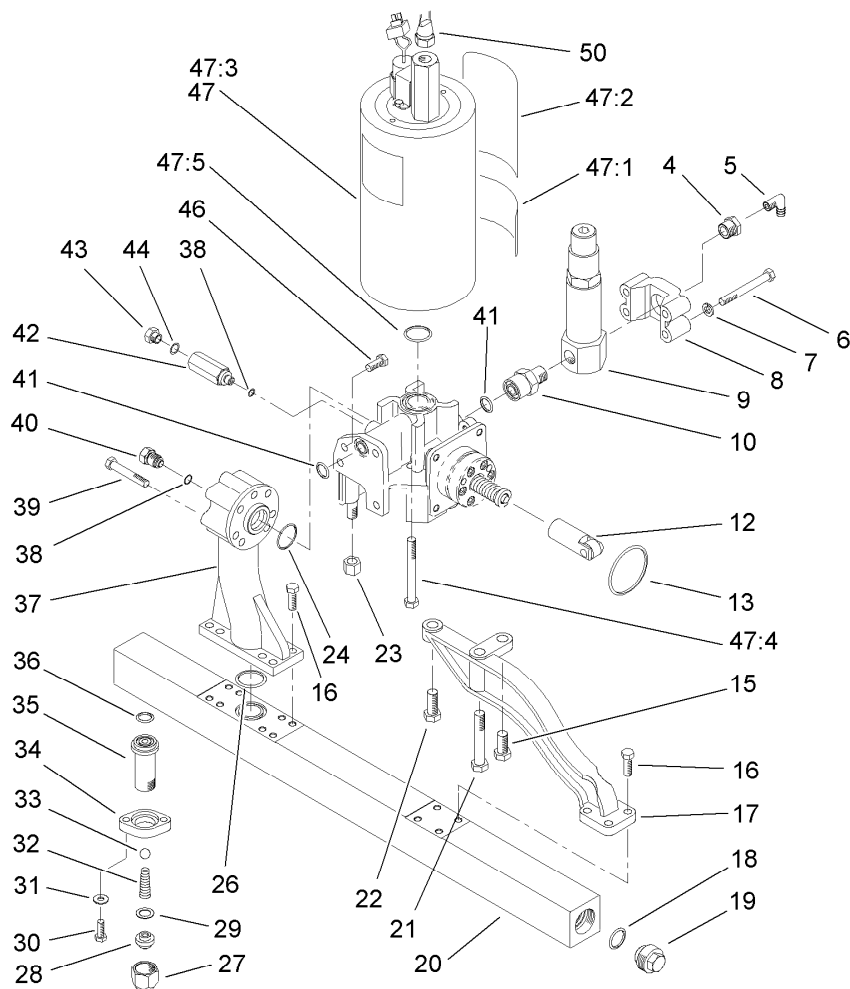


## Water Manifold and Valve Assembly

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 4    | 354-92      | 1    | Bushing                 |
| 5    | 354-93      | 1    | Fitting-Elbow, 90       |
| 6    | 323-17      | 4    | Screw-HH                |
| 7    | 3253-21     | 4    | Washer-Lock             |
| 8    | 80-9890-03  | 1    | Clamp-Valve             |
| 9    | 80-7070     | 1    | Valve-Relief            |
| 10   | 80-9900     | 1    | Fitting-Valve           |
| 12   | 80-5580     | 1    | Follower-Cam            |
| 13   | 237-173     | 1    | O-Ring                  |
| 15   | 325-4       | 1    | Screw-HH                |
| 16   | 323-5       | 12   | Screw-HH                |
| 17   | 80-5080-03  | 1    | Support-Manifold        |
| 18   | 80-5791     | 2    | O-Ring                  |
| 19   | 80-8220     | 2    | Plug-Head, Pump         |
| 20   | 80-5380     | 1    | Manifold                |
| 21   | 325-12      | 1    | Screw-HH                |
| 22   | 325-5       | 1    | Screw-HH                |
| 23   | 3296-19     | 2    | Nut-Hex                 |
| 24   | 80-5780     | 1    | O-Ring                  |
| 26   | 80-5784     | 2    | O-Ring                  |
| 27   | 86-8140     | 11   | Retainer-Nozzle         |
| 28   | 86-8131     | 11   | Nozzle                  |
| 29   | 86-8150     | 11   | Washer-Nozzle           |
| 30   | 86-8610     | 22   | Screw-HHF               |
| 31   | 3256-2      | 22   | Washer-Flat             |
| 32   | 80-9710     | 11   | Spring-Compression, TAP |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 33   | 255-12      | 11   | Ball-Steel, Stainless  |
| 34   | 80-9800     | 11   | Flange-Nozzle          |
| 35   | 86-8110     | 11   | Nozzle Extension ASM   |
| 36   | 80-5786     | 11   | O-Ring                 |
| 37   | 80-8210     | 1    | Feeder-Manifold        |
| 38   | 80-5793     | 2    | O-Ring                 |
| 39   | 323-13      | 7    | Screw-HH               |
| 40   | 80-8230     | 1    | Plug-Feeder            |
| 41   | 80-5782     | 2    | O-Ring                 |
| 42   | 80-9980     | 1    | Fitting-Extension      |
| 43   | 354-82      | 1    | Plug                   |
| 44   | 80-5794     | 1    | O-Ring                 |
| 46   | 323-6       | 4    | Screw-HH               |
| 47   | 114-4101    | 1    | Accumulator ASM        |
| 47:1 | 80-8880     | 2    | Decal-Warning          |
| 47:1 | 93-9366     | 1    | Decal-Warning, Ce      |
| 47:2 | 108-1333    | 1    | Decal-Danger, Swedish  |
| 47:2 | 108-1332    | 1    | Decal-Danger, Spanish  |
| 47:2 | 108-1323    | 1    | Decal-Danger, Danish   |
| 47:2 | 108-1324    | 1    | Decal-Danger, Dutch    |
| 47:2 | 108-1325    | 1    | Decal-Danger, French   |
| 47:2 | 108-1326    | 1    | Decal-Danger, German   |
| 47:2 | 108-1327    | 1    | Decal-Danger, Italian  |
| 47:2 | 108-1316    | 2    | Decal-Danger           |
| 47:2 | 108-1328    | 1    | Decal-Danger, Finnish  |
| 47:2 | 108-1329    | 1    | Decal-Danger, Japanese |

● Not serviced separately

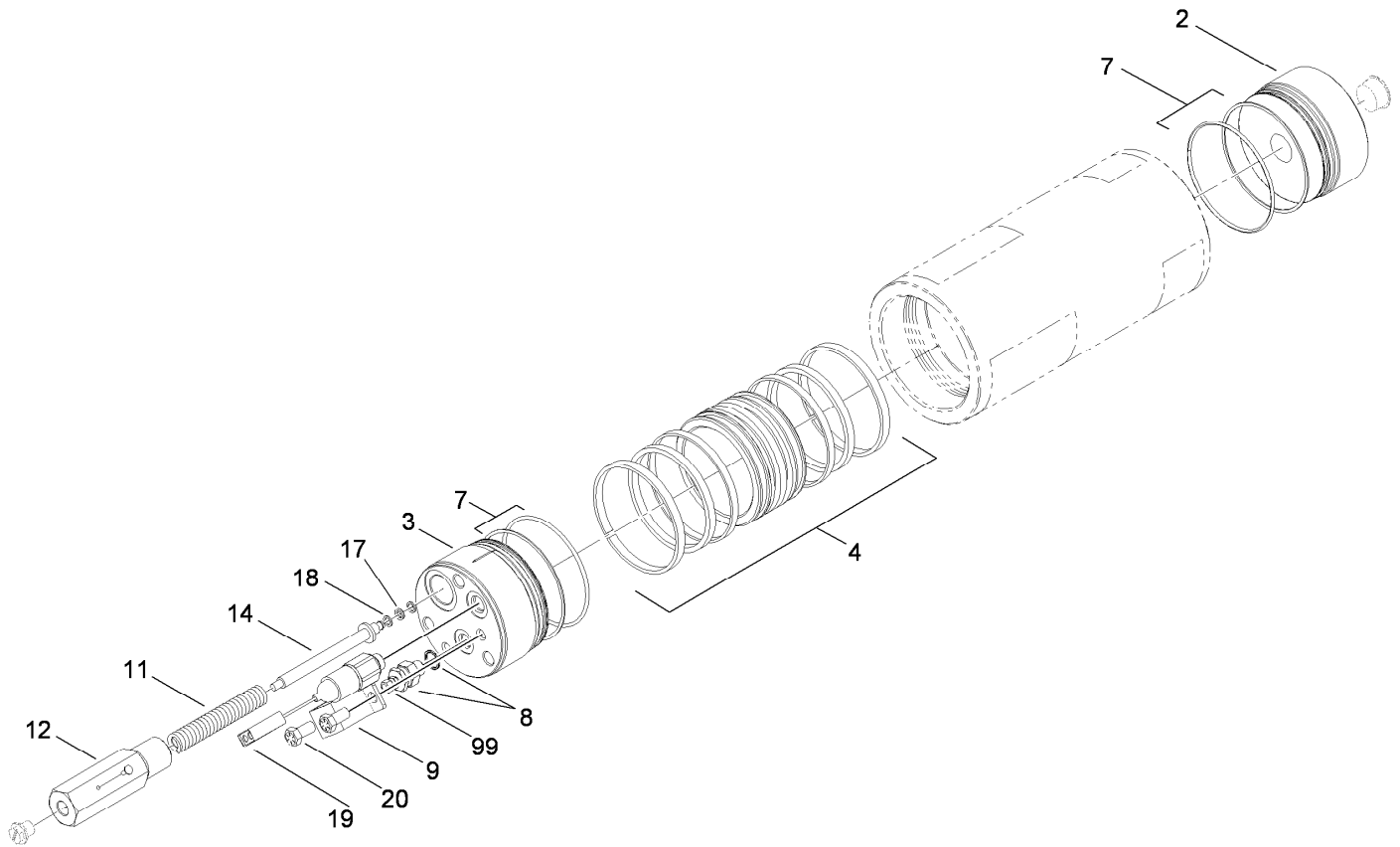


## Water Manifold and Valve Assembly (continued)

| Ref. | Part Number | Qty. | Description             |
|------|-------------|------|-------------------------|
| 47:2 | 108-1330    | 1    | Decal-Danger, Norwegian |
| 47:2 | 108-1331    | 1    | Decal-Danger, Portugese |
| 47:3 |             | 1    | Accumulator ●           |

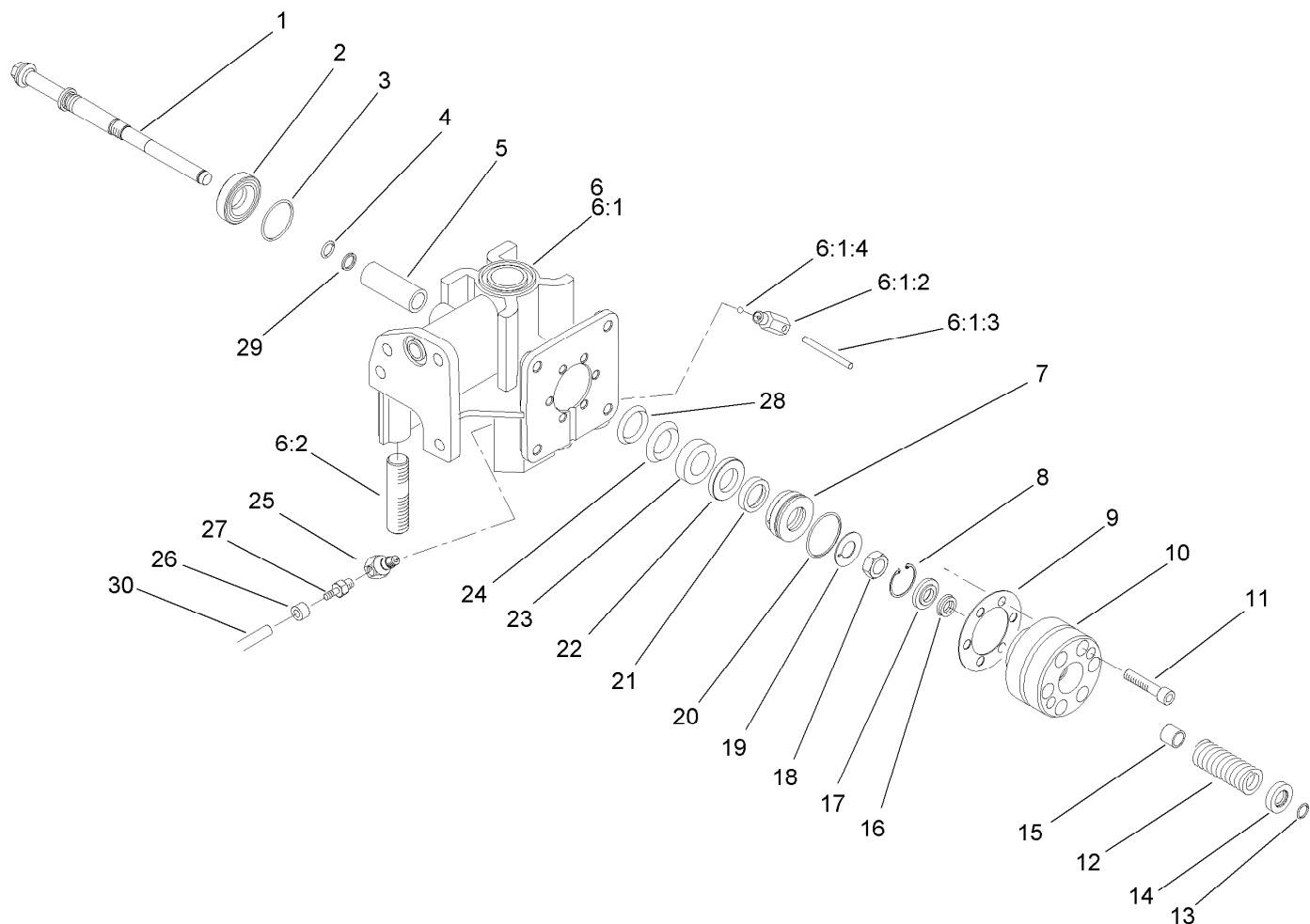
| Ref. | Part Number | Qty. | Description |
|------|-------------|------|-------------|
| 47:4 | 324-26      | 4    | Screw-HH    |
| 47:5 | 80-5784     | 1    | O-Ring      |
| 50   | 72-4320     | 1    | Switch-Ball |

● Not serviced separately



# Accumulator Assembly

| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 2    | 108-1321    | 1    | Cap-End, Water Port         |
| 3    | 108-1320    | 1    | Cap-Gas End                 |
| 4    | 80-8980     | 1    | Piston ASM                  |
| 7    | 80-8990     | 1    | Seal Kit                    |
| 8    | 80-9000     | 1    | Gas Valve ASM (With O-Ring) |
| 9    | 80-9020     | 1    | Protector-Valve             |
| 11   | 92-9532     | 1    | Spring-Compression          |
| 12   | 92-9531     | 1    | Retainer-Plunger            |
| 14   | 108-1322    | 1    | Plunger-Switch              |
| 17   | 92-9535     | 1    | O-Ring                      |
| 18   | 92-9536     | 2    | Ring-Back Up                |
| 19   | 110-4790    | 1    | Switch-Pressure, 5500 Psi   |
| 20   | 323-4       | 2    | Screw-HH                    |
| 99   | 80-8970     | 1    | Cap-Valve                   |

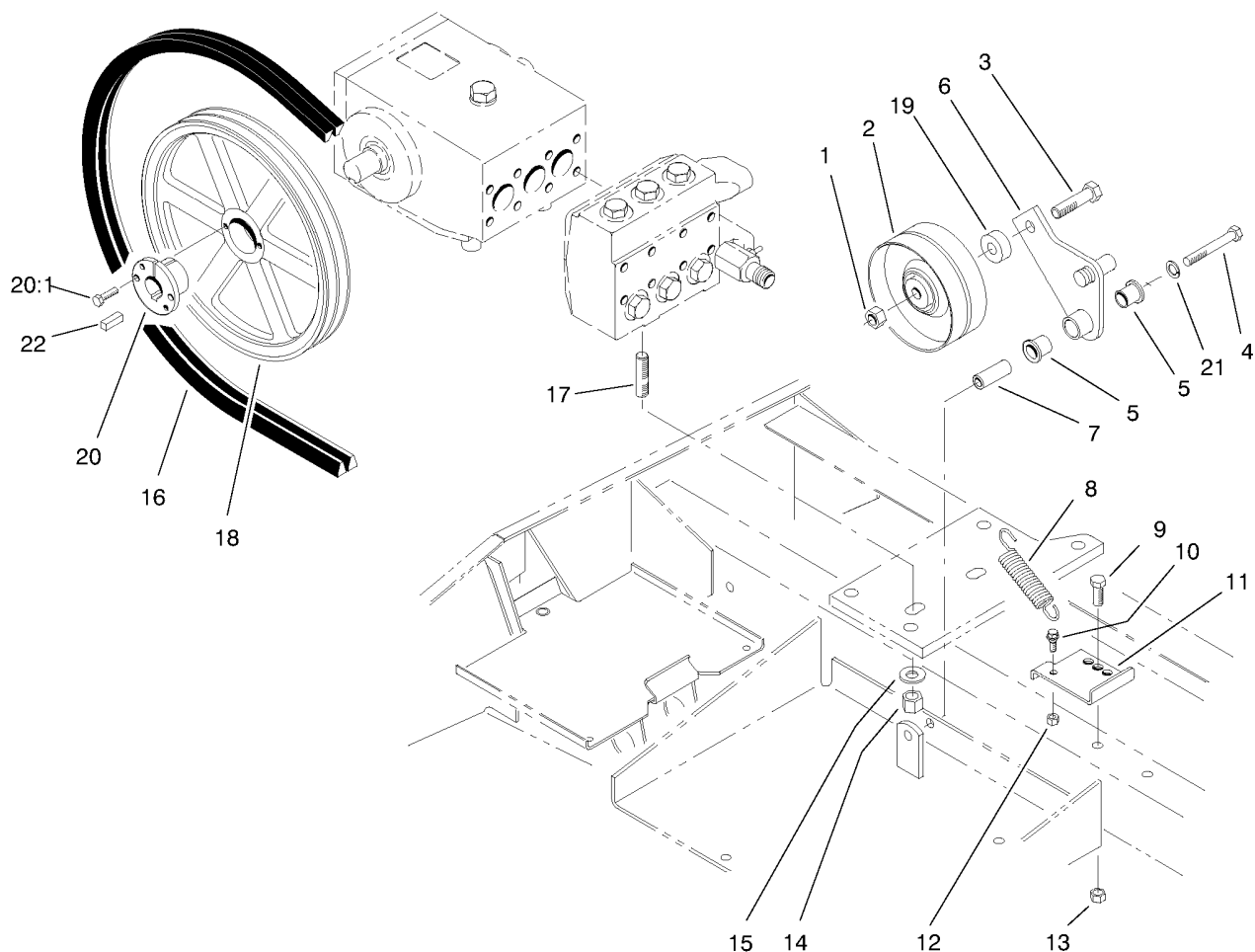


## Water Valve Assembly

| Ref.  | Part Number | Qty. | Description             |
|-------|-------------|------|-------------------------|
| 1     | 80-5600     | 1    | Spool-Valve             |
| 2     | 86-9070     | 1    | Seat-Valve              |
| 3     | 80-5780     | 1    | O-Ring                  |
| 4     | 80-8460     | 1    | O-Ring                  |
| 5     | 86-8310     | 1    | Sleeve-Plunger          |
| 6     | 14-7449     | 1    | Valve Body ASM          |
| 6:1   |             | 1    | Valve Body ASM ●        |
| 6:1:2 | 80-9750     | 1    | Valve-Bleed             |
| 6:1:3 | 32121-48    | 1    | Pin-Spring              |
| 6:1:4 | 255-13      | 1    | Ball-Steel, Stainless   |
| 6:2   | 80-8680     | 2    | Stud                    |
| 7     | 80-9220     | 1    | Retainer-Seal           |
| 8     | 32120-37    | 1    | Ring-Retaining          |
| 9     | 80-9560     | 2    | Gasket                  |
| 10    | 80-5590     | 1    | Pilot-Gear Box          |
| 11    | 3274-83     | 6    | Screw-HSH               |
| 12    | 80-5770     | 1    | Spring-Valve            |
| 13    | 32151-99    | 1    | Ring-Retainer, External |

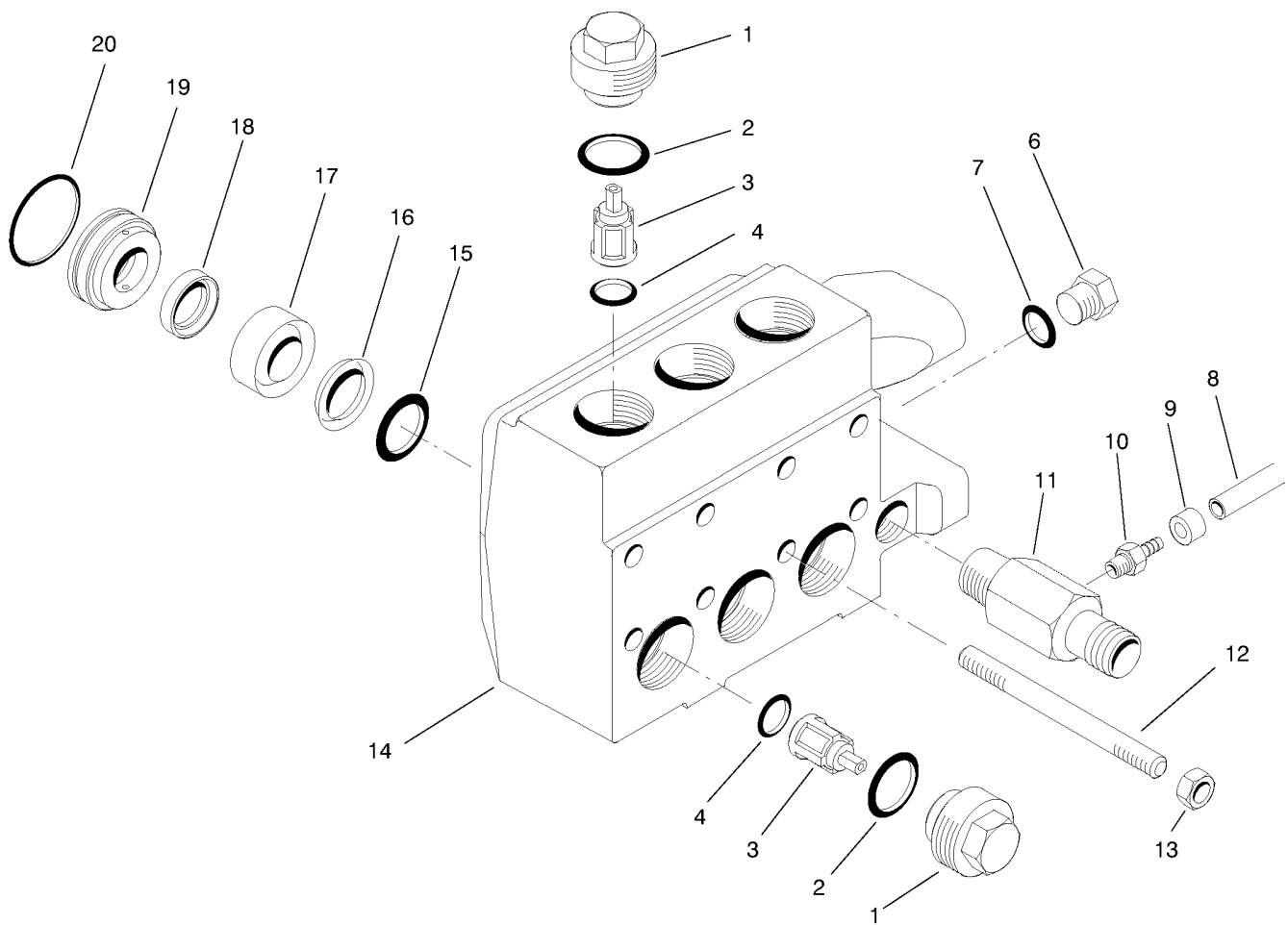
| Ref. | Part Number | Qty. | Description                 |
|------|-------------|------|-----------------------------|
| 14   | 80-5570     | 1    | Retainer-Spring, Valve      |
| 15   | 256-315     | 1    | Bushing                     |
| 16   | 253-168     | 1    | Seal-U Cup                  |
| 17   | 80-9200     | 1    | Seal-Backup                 |
| 18   | 3220-23     | 1    | Nut-Hex, Jam                |
| 19   | 86-8320     | 1    | Washer-Slotted              |
| 20   | 237-178     | 1    | O-Ring                      |
| 21   | 80-5760     | 1    | Seal-U Cup                  |
| 22   | 80-9390     | 1    | Guide-Valve                 |
| 23   | 114-4105    | 1    | Support-Seal, Plunger Valve |
| 24   | 80-5740     | 1    | Seal-Packing, Vee           |
| 25   | 80-9410     | 1    | Fitting-Adapter             |
| 26   | 80-9480     | 1    | Retainer-Tube               |
| 27   | 304-101     | 1    | Fitting                     |
| 28   | 80-5730     | 1    | Ring-Back Up                |
| 29   | 80-8470     | 1    | Support-Teflon              |
| 30   | 80-6521     | 1    | Hose-Gage                   |

● Not serviced separately



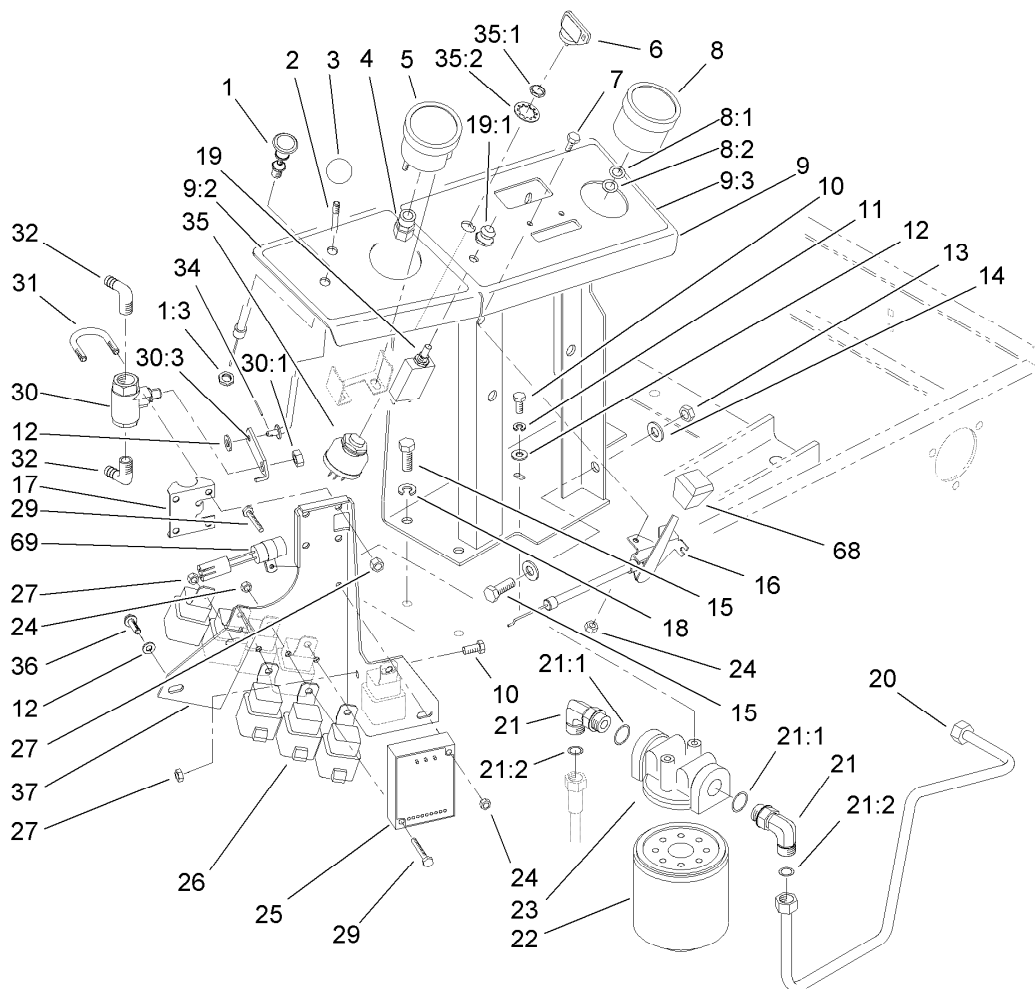
## Water Pump Installation Assembly

| Ref. | Part Number | Qty. | Description         |
|------|-------------|------|---------------------|
| 1    | 3296-28     | 1    | Nut-Lock, NI        |
| 2    | 80-8360     | 1    | Pulley-Idler, Flat  |
| 3    | 3213-7      | 1    | Screw-HH            |
| 4    | 323-12      | 1    | Screw-HH            |
| 5    | 80-9610     | 2    | Bushing             |
| 6    | 86-8870     | 1    | Pivot-Idler         |
| 7    | 80-7710     | 1    | Spacer-Pivot, Idler |
| 8    | 80-6620     | 1    | Spring-Extension    |
| 9    | 323-6       | 1    | Screw-HH            |
| 10   | 42-3560     | 1    | Bolt-Shoulder       |
| 11   | 80-6600     | 1    | Bracket-Spring      |
| 12   | 3296-56     | 1    | Nut-Lock, NI        |
| 13   | 3296-39     | 1    | Nut-Lock, NI        |
| 14   | 3296-19     | 2    | Nut-Hex             |
| 15   | 3256-26     | 2    | Washer-Flat         |
| 16   | 80-6730     | 2    | V-Belt              |
| 17   | 80-8680     | 2    | Stud                |
| 18   | 80-6650     | 1    | Pulley              |
| 19   | 86-8890     | 1    | Spacer-Pulley       |
| 20   | 80-6660     | 1    | Bushing-Lock, Taper |
| 20:1 | 321-4       | 2    | Screw-HH            |
| 21   | 3253-21     | 1    | Washer-Lock         |
| 22   | 86-8790     | 1    | Key-Rectangular     |



## Water Pump Manifold Assembly

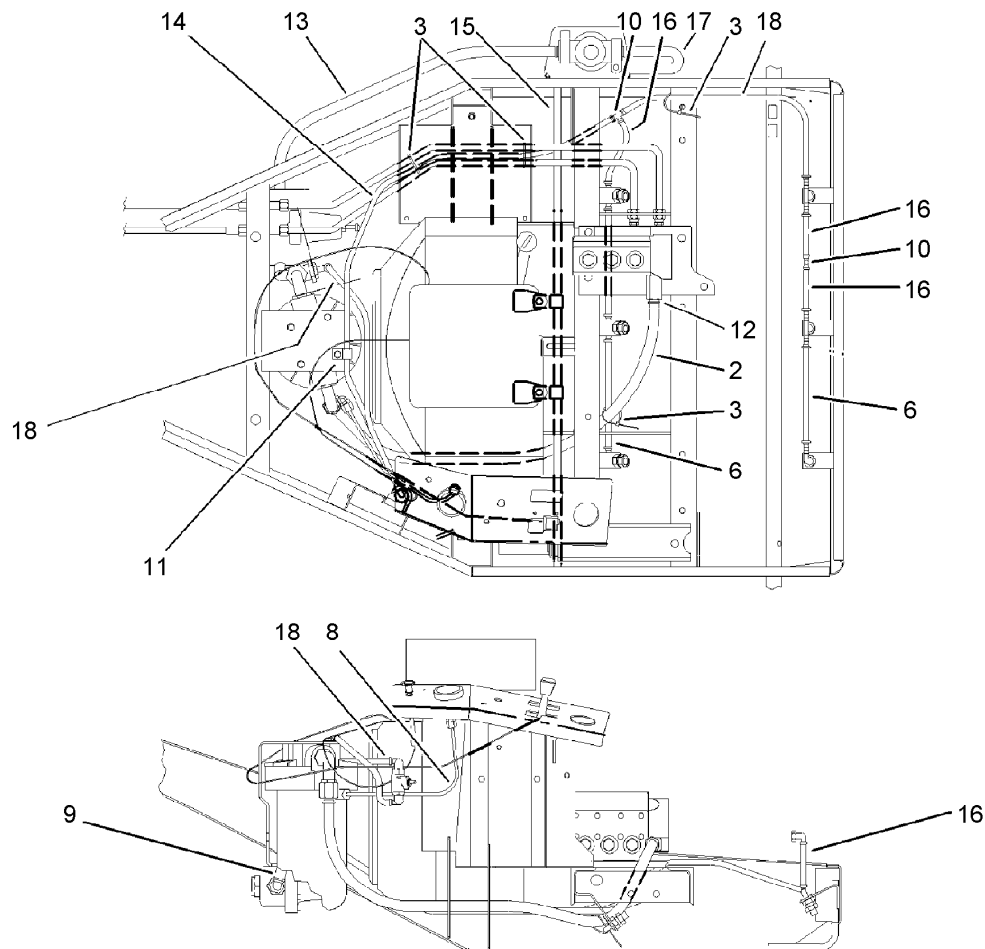
| Ref. | Part Number | Qty. | Description               |
|------|-------------|------|---------------------------|
| 1    | 80-8220     | 3    | Plug-Head, Pump           |
| 2    | 80-5791     | 6    | O-Ring                    |
| 3    | 80-5630     | 6    | Valve-Check               |
| 4    | 80-5781     | 6    | O-Ring                    |
| 6    | 354-82      | 1    | Plug                      |
| 7    | 80-5794     | 1    | O-Ring                    |
| 8    | 80-6521     | 1    | Hose-Gage                 |
| 9    | 80-9480     | 1    | Retainer-Tube             |
| 10   | 304-101     | 1    | Fitting                   |
| 11   | 80-9400     | 1    | Fitting-Adapter           |
| 12   | 86-8830     | 8    | Stud-Head                 |
| 13   | 3219-28     | 8    | Nut                       |
| 14   | 14-5289     | 1    | Head-Pump                 |
| 15   | 80-5730     | 3    | Ring-Back Up              |
| 16   | 80-5740     | 3    | Seal-Packing, Vee         |
| 17   | 115-4900    | 3    | Support-Seal/Plunger Head |
| 18   | 80-5760     | 3    | Seal-U Cup                |
| 19   | 80-5720     | 3    | Retainer-Packing, Outer   |
| 20   | 237-170     | 3    | O-Ring                    |



## Control Panel Assembly

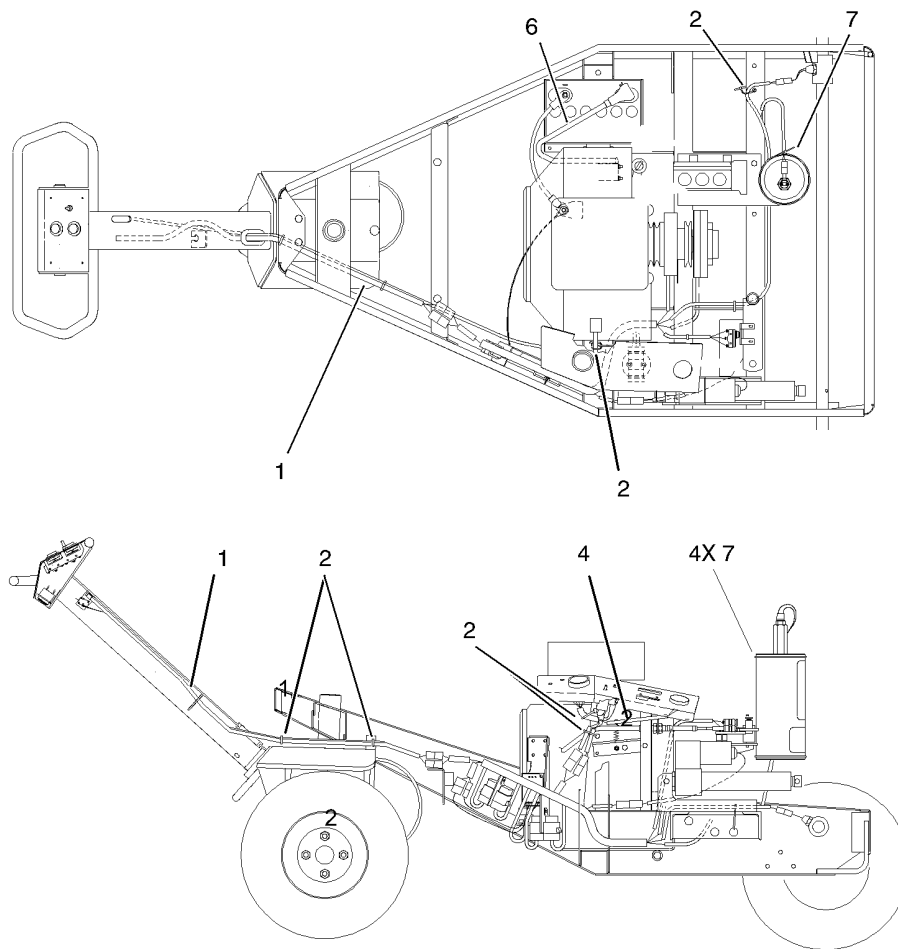
| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 1    | 108-1274    | 1    | Control-Choke          |
| 1:3  | 3220-3      | 1    | Nut-HJ                 |
| 2    | 80-8280     | 1    | Rod-Control            |
| 3    | 233-17      | 1    | Knob                   |
| 4    | 354-102     | 1    | Fitting-Female         |
| 5    | 80-5640     | 1    | Gauge-Switch, Pressure |
| 6    | 63-8360     | 2    | Key-Ignition           |
| 7    | 32105-23    | 2    | Screw                  |
| 8    | 66-2950     | 1    | Gauge-Hourmeter        |
| 8:1  | 3255-20     | 2    | Washer-Lock            |
| 8:2  | 3217-25     | 2    | Nut-Hex                |
| 9    | 108-1288    | 1    | Control Panel ASM      |
| 9:2  | 108-1263    | 1    | Decal-Control          |
| 9:3  | 108-1264    | 1    | Decal-Control, Engine  |
| 10   | 321-3       | 5    | Screw-HH               |
| 11   | 3253-3      | 2    | Washer-Lock            |
| 12   | 3256-22     | 7    | Washer-Flat            |
| 13   | 3296-39     | 1    | Nut-Lock, NI           |
| 14   | 3256-24     | 2    | Washer-Flat            |
| 15   | 323-6       | 3    | Screw-HH               |
| 16   | 108-1273    | 1    | Control-Throttle       |
| 17   | 80-8890     | 1    | Mount-Valve            |
| 18   | 3253-21     | 2    | Washer-Lock            |
| 19   | 108-1296    | 1    | Breaker-Circuit, 15A   |
| 19:1 | 80-7660     | 1    | Seal-Rest Button       |

| Ref. | Part Number | Qty. | Description            |
|------|-------------|------|------------------------|
| 20   | 80-9830     | 1    | Drain Tube ASM         |
| 21   | 340-98      | 2    | Fitting-HYD, 90 DEG    |
| 21:1 | 237-79      | 1    | O-Ring                 |
| 21:2 | 237-30      | 1    | O-Ring                 |
| 22   | 67-8110     | 1    | Cartridge-Filter, Oil  |
| 23   | 86-9080     | 1    | Head-Filter            |
| 24   | 3296-2      | 4    | Nut-Lock, NI           |
| 25   | 86-9060     | 1    | Control-Electric       |
| 26   | 99-7430     | 8    | Relay                  |
| 27   | 3296-42     | 7    | Nut-Lock, NI           |
| 29   | 32105-5     | 2    | Screw                  |
| 30   | 14-5259     | 1    | Valve ASM              |
| 30:1 | 3220-2      | 1    | Nut-Jam                |
| 30:3 | 93-1691     | 1    | Lever-Valve            |
| 31   | 80-7880     | 2    | U-Bolt                 |
| 32   | 354-93      | 2    | Fitting-Elbow, 90      |
| 34   | 3272-2      | 1    | Pin-Cotter             |
| 35   | 83-0020     | 1    | Switch-Ignition        |
| 35:1 | 218-461     | 1    | Nut-HH                 |
| 35:2 | 3254-5      | 1    | Washer-Tooth, Internal |
| 36   | 32104-95    | 4    | Screw-HWH              |
| 37   | 108-1303-01 | 1    | Bracket-Relay          |
| 68   | 66-0120     | 1    | Knob                   |
| 69   | 83-2280     | 1    | Timer-Delay            |



## Water System Hose Routing Assembly

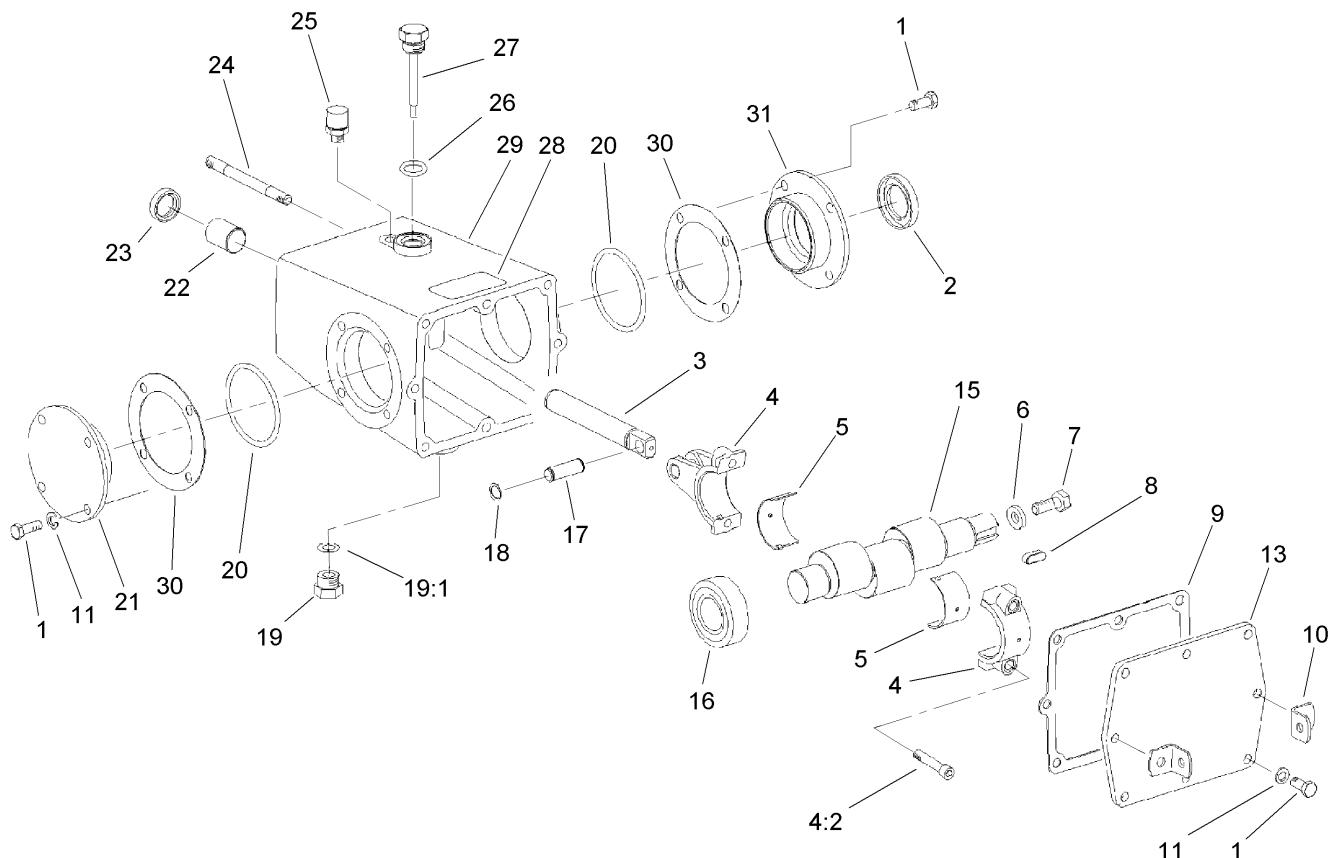
| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i> |
|-------------|--------------------|-------------|--------------------|
| 2           | 80-6517            | 1           | Hose-Pressure      |
| 3           | 3290-378           | 4           | Tie-Cable          |
| 6           | 80-7340            | 3           | Hose ASM           |
| 8           | 80-6520            | 1           | Hose-Gage          |
| 9           | 80-6514            | 1           | Hose-Pressure      |
| 10          | 354-107            | 2           | Fitting-HYD, Tee   |
| 11          | 2412-36            | 20          | Clamp-Hose         |
| 12          | 2412-129           | 10          | Clamp-Hose         |
| 13          | 80-6510            | 1           | Hose               |
| 14          | 80-7344            | 1           | Hose ASM           |
| 15          | 108-1299           | 1           | Hose               |
| 16          | 80-7341            | 4           | Hose ASM           |
| 17          | 80-6515            | 1           | Hose               |
| 18          | 80-7346            | 2           | Hose ASM           |



## Wire Routing Assembly

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>          |
|-------------|--------------------|-------------|-----------------------------|
| 1           | 108-1291           | 1           | Harness-Wire, Tiller        |
| 2           | 3290-378           | 5           | Tie-Cable                   |
| 4           | 108-1276           | 1           | Harness-Wire, Control Panel |
| 4:1         | 219-20             | 2           | Lamp-Incandescent, Red ●    |
| 6           | 108-1290           | 1           | Cable-Battery, Positive     |
| 7           | 3290-379           | 2           | Tie-Cable                   |

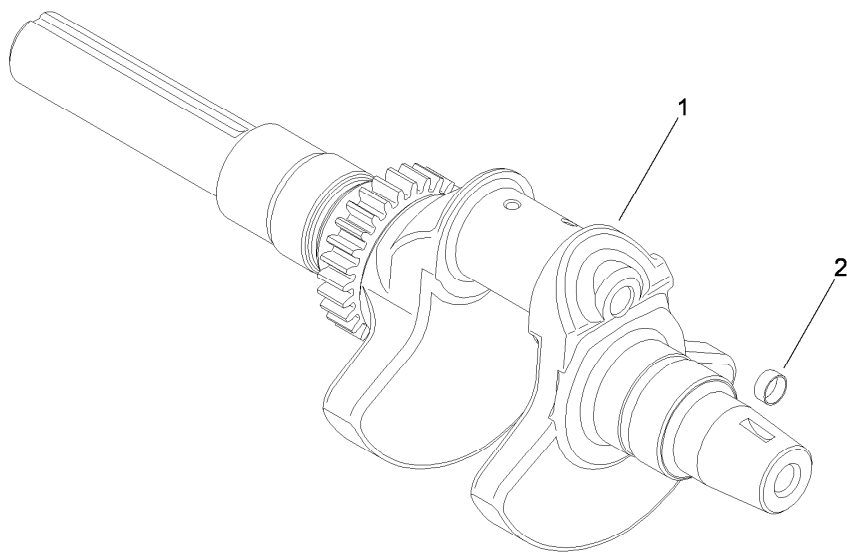
● Not illustrated



## Water Pump Crankcase Assembly No. 86-8900

| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 1    | 322-3       | 16   | Screw-HH          |
| 2    | 86-8760     | 1    | Seal              |
| 3    | 86-8820     | 3    | Rod-Plunger       |
| 4    | 86-8380     | 3    | Rod-Connecting    |
| 4:2  | 3274-83     | 2    | Screw-HSH         |
| 5    | 106-9683    | 3    | Split Bearing Set |
| 6    | 3256-56     | 1    | Washer-Flat       |
| 7    | 323-2       | 1    | Screw-HH          |
| 8    | 86-8790     | 1    | Key-Rectangular   |
| 9    | 86-8730     | 1    | Gasket            |
| 10   | 92-9547     | 2    | Bracket-Angle     |
| 11   | 3253-4      | 8    | Washer-Lock       |
| 13   | 86-8850-03  | 1    | Cover-Crankcase   |
| 15   | 86-8360     | 1    | Crankshaft        |
| 16   | 86-8780     | 2    | Bearing-Tapered   |
| 17   | 86-8740     | 3    | Pin-Connecting    |
| 18   | 32151-65    | 6    | Ring-Snap         |

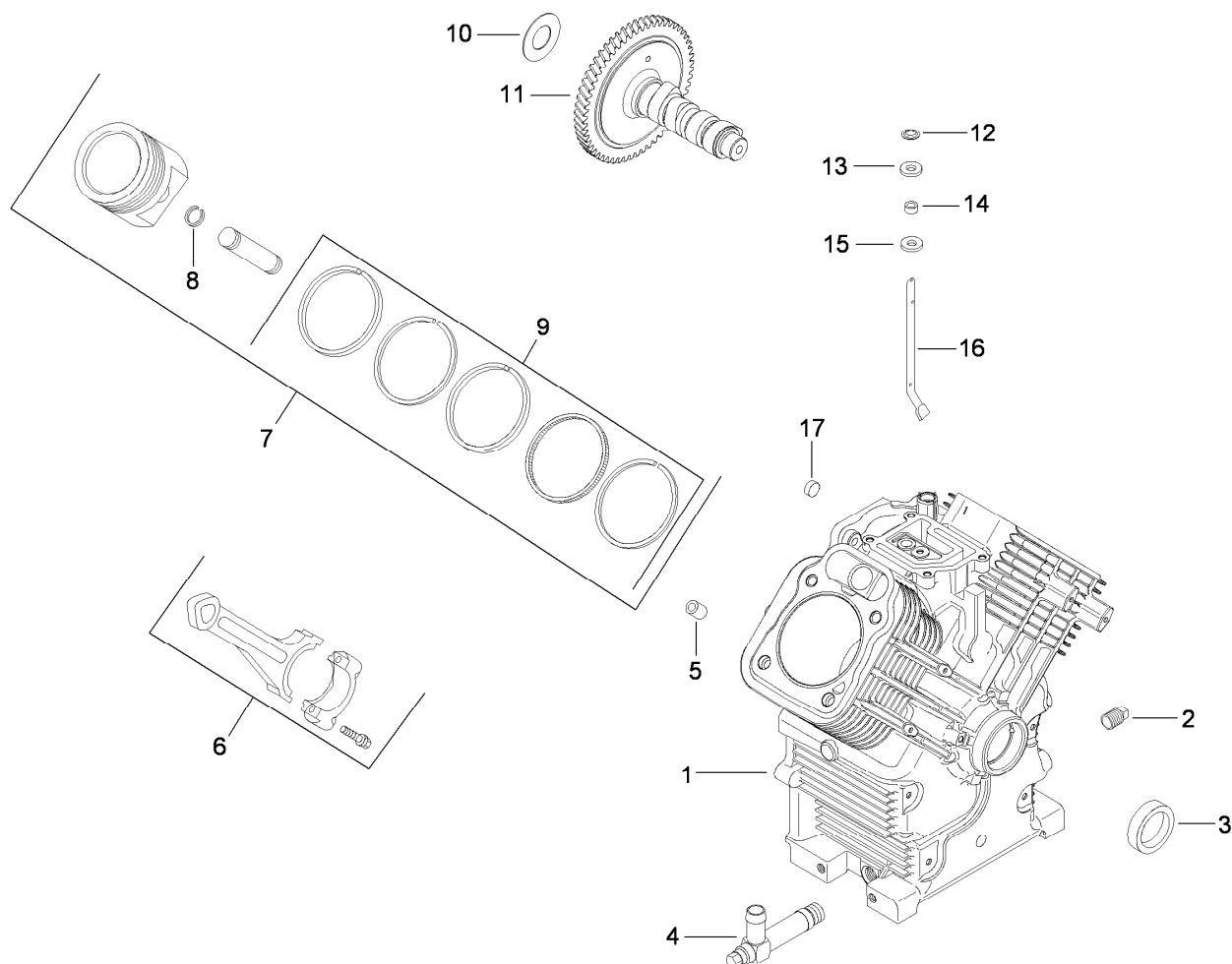
| Ref. | Part Number | Qty. | Description       |
|------|-------------|------|-------------------|
| 19   | 353-550     | 1    | Plug-HYD, HH      |
| 19:1 | 237-79      | 1    | O-Ring            |
| 20   | 237-25      | 2    | O Ring            |
| 21   | 86-8570     | 1    | Flange-Crankcase  |
| 22   | 86-8750     | 3    | Guide-Plunger     |
| 23   | 86-8770     | 3    | Seal              |
| 24   | 86-8830     | 8    | Stud-Head         |
| 25   | 80-7020     | 1    | Vent-Filter       |
| 26   | 237-79      | 1    | O-Ring            |
| 27   | 86-8860     | 1    | Dipstick          |
| 28   | 80-9450     | 1    | Decal-Information |
| 29   | 86-8810     | 1    | Crankcase         |
| 30   | 86-8720     | 3    | Shim-Crankcase    |
| 30   | 86-8721     | 4    | Shim-Crankcase    |
| 30   | 86-8722     | 3    | Shim-Crankcase    |
| 30   | 86-8723     | 4    | Shim-Crankcase    |
| 31   | 86-8580     | 1    | Flange-Crankcase  |



## Crankshaft Assembly Kohler CH740-0053

| <i>Ref.</i> | <i>Part Number</i> | <i>Qty.</i> | <i>Description</i>            |
|-------------|--------------------|-------------|-------------------------------|
| 1           | 24 014 120-S       | 1           | Crankshaft ASM (Includes 2) ● |
| 2           | 52 139 09-S        | 1           | Plug-Cup ●                    |

● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

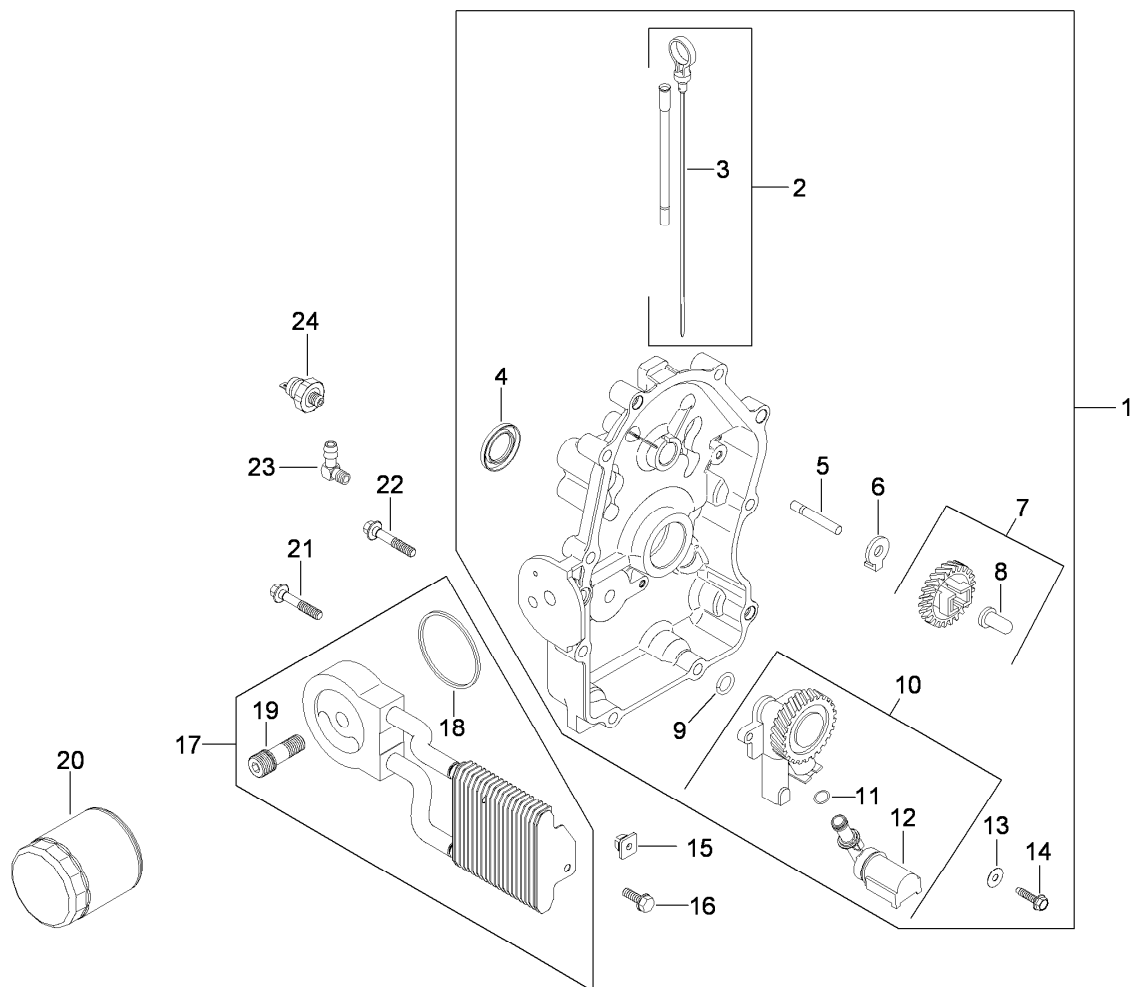


## Crankcase Assembly Kohler CH740-0053

| Ref. | Part Number | Qty. | Description                  | Ref. | Part Number | Qty. | Description                   |
|------|-------------|------|------------------------------|------|-------------|------|-------------------------------|
| 1    | 24 522 431  | 1    | Crankcase-Shortblock ■       | 10   | 12 422 10-S | 1    | Shim-Camshaft (Yellow .034) ■ |
| 2    | 25 139 57-S | 1    | Plug-Pipe, Sq HD (3/8) ■     | 10   | 12 422 11-S | 1    | Shim-Camshaft (Green .036) ■  |
| 3    | 24 032 01-S | 1    | Seal-Oil ■                   | 10   | 12 422 12-S | 1    | Shim-Camshaft (Gray .038) ■   |
| 4    | 25 462 13-S | 1    | Valve-Drain, Oil ■           | 10   | 12 422 13-S | 1    | Shim-Camshaft (Black .04) ■   |
| 5    | 24 380 16-S | 6    | Pin-Locating ■               | 11   | 24 012 18-S | 1    | Camshaft Kit ■                |
| 6    | 24 067 24-S | 2    | Rod-Connecting (STD) ■       | 12   | 24 018 09-S | 1    | Retainer-Ring ■               |
| 6    | 24 067 25-S | 2    | Rod-Connecting (.25) ■       | 13   | M-931010-S  | 1    | Washer-Flat (9Mm) ■           |
| 7    | 24 874 26-S | 2    | Piston And Ring Kit (STD) ■  | 14   | 28 032 09-S | 1    | Seal-Cross Shaft, Governor ■  |
| 7    | 24 874 16-S | 1    | Piston And Ring Set (.08) ■  | 15   | 24 468 15-S | 1    | Washer-Flat (11/32) ■         |
| 7    | 24 874 27-S | 1    | Piston W/Ring Set (.08) ■    | 16   | 24 144 38-S | 1    | Shaft-Cross, Governor ■       |
| 7    | 24 874 20-S | 1    | Piston And Ring Set (.25) ■  | 17   | 52 139 09-S | 1    | Plug-Cup ■                    |
| 7    | 24 874 29-S | 1    | Piston W/Ring Set (.50) ■    |      | 24 782 32   | 1    | Crankcase-Mini Block ● ■      |
| 8    | 24 018 01-S | 4    | Retainer-Pin, Piston ■       |      | 25 357 14-S | 1    | Lubricant-Camshaft ● ■        |
| 9    | 24 108 05-S | 1    | Ring Set (.25) ■             |      |             |      |                               |
| 9    | 24 108 06-S | 1    | Ring Set (.25) ■             |      |             |      |                               |
| 9    | 24 108 07-S | 1    | Ring Set (.50) ■             |      |             |      |                               |
| 10   | 12 422 07-S | 1    | Shim-Camshaft (White .028) ■ |      |             |      |                               |
| 10   | 12 422 08-S | 1    | Shim-Camshaft (Blue .03) ■   |      |             |      |                               |
| 10   | 12 422 09-S | 1    | Shim-Camshaft (Red .032) ■   |      |             |      |                               |

● Not illustrated

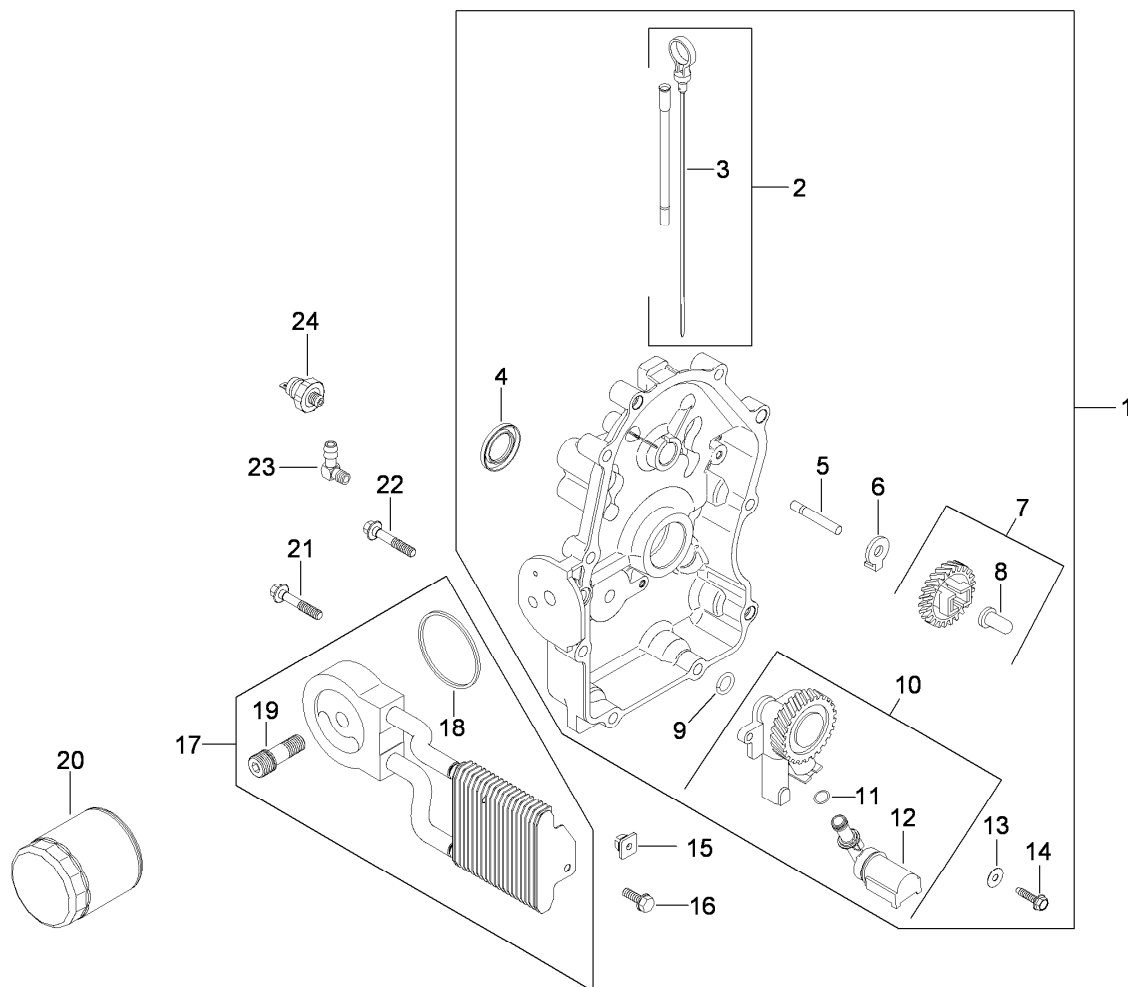
■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



## Oil Pan and Lubrication Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description                                |
|------|--------------|------|--------------------------------------------|
| 1    | 24 009 167-S | 1    | Closure Plate And Bearing ASM ●            |
| 2    | 24 755 121-S | 1    | Dipstick Tube ASM (Includes 3) ●           |
| 3    | 24 038 10-S  | 1    | Dipstick ●                                 |
| 4    | 52 032 08-S  | 1    | Seal-Oil (P T O End) ●                     |
| 5    | 12 144 02-S  | 1    | Shaft-Gear, Governor ●                     |
| 6    | 24 448 02-S  | 1    | Tab-Locking ●                              |
| 7    | 24 043 12-S  | 1    | Governor Gear Kit (Includes 8) ●           |
| 8    | 12 380 01-S  | 1    | Pin-Regulating, Governor ●                 |
| 9    | 24 153 08-S  | 1    | O-Ring ●                                   |
| 10   | 24 393 51-S  | 1    | Oil Pump ASM (Includes 11, 12) ●           |
| 11   | 24 153 01-S  | 1    | O-Ring (Oil Pick-Up) ●                     |
| 12   | 24 381 04-S  | 1    | Tube-Pick Up, Oil ●                        |
| 13   | M-631005-S   | 2    | Washer-Flat (6 Mm) ●                       |
| 14   | M-645025-S   | 2    | Screw-Flange, Thread Forming (M6X1.0X25) ● |
| 15   | 24 100 01-S  | 2    | Nut-Plastic ●                              |
| 16   | 24 086 12-S  | 2    | Screw-TAP (M6X1.7X18) ●                    |
| 17   | 54 755 21-S  | 1    | Oil Cooler Kit (Metal) (Includes 18, 19) ● |
| 18   | 24 153 21-S  | 1    | O-Ring (Oil Cooler) ●                      |
| 19   | 24 136 05-S  | 1    | Nipple-Filter, Oil ●                       |
| 20   | 52 050 02-S  | 1    | Filter-Oil ●                               |
| 21   | 24 086 17-S  | 1    | Screw-Flange (M8X1.25X45) ●                |
| 22   | 24 086 16-S  | 9    | Screw-HF (M8X1.25X45) ●                    |

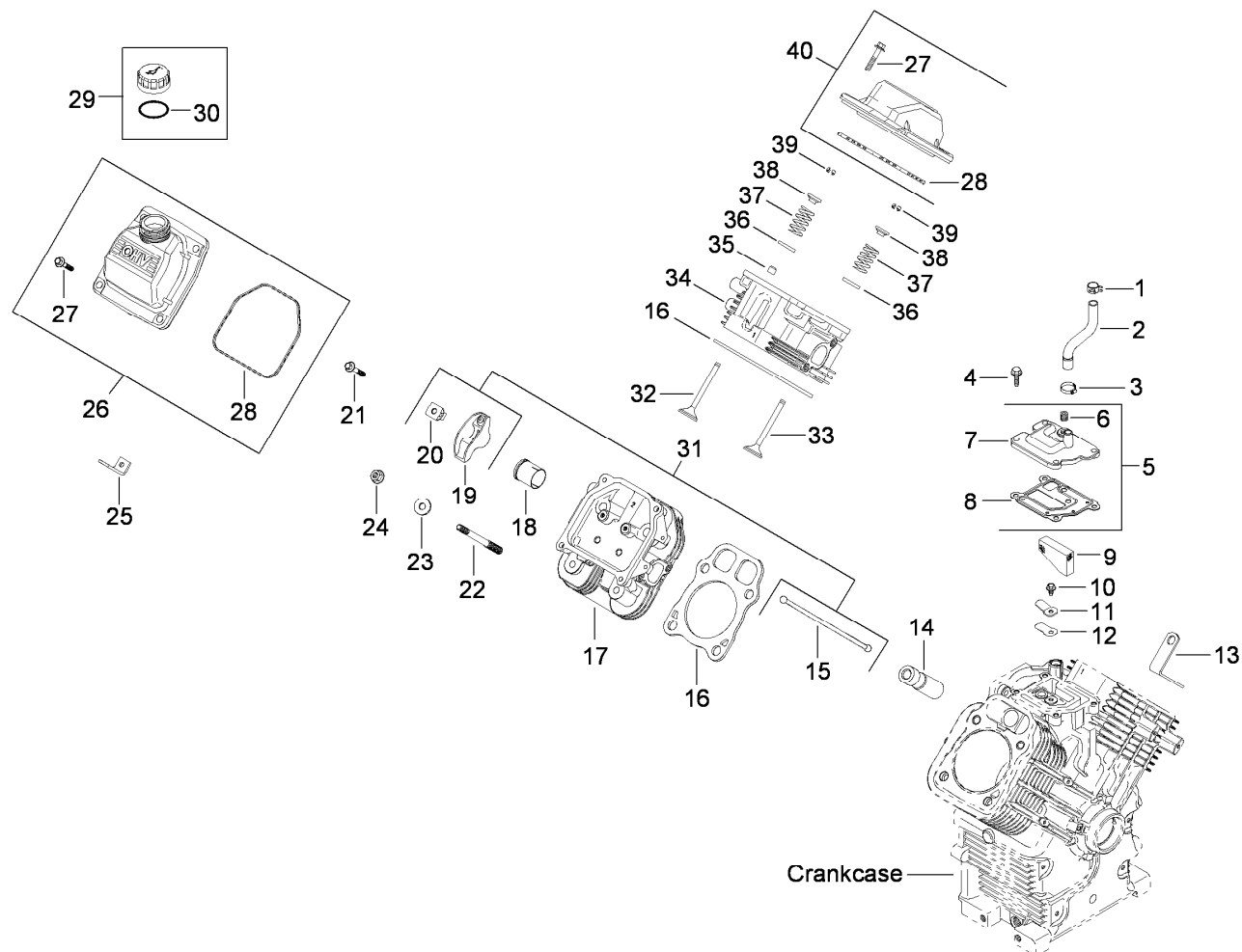
● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



## Oil Pan and Lubrication Assembly Kohler CH740-0053 (continued)

| Ref. | Part Number | Qty. | Description              |
|------|-------------|------|--------------------------|
| 23   | 25 155 02-S | 1    | Connector-Hose, 90 Deg ● |
| 24   | 25 099 27-S | 1    | Switch-Pressure, Oil ●   |

● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

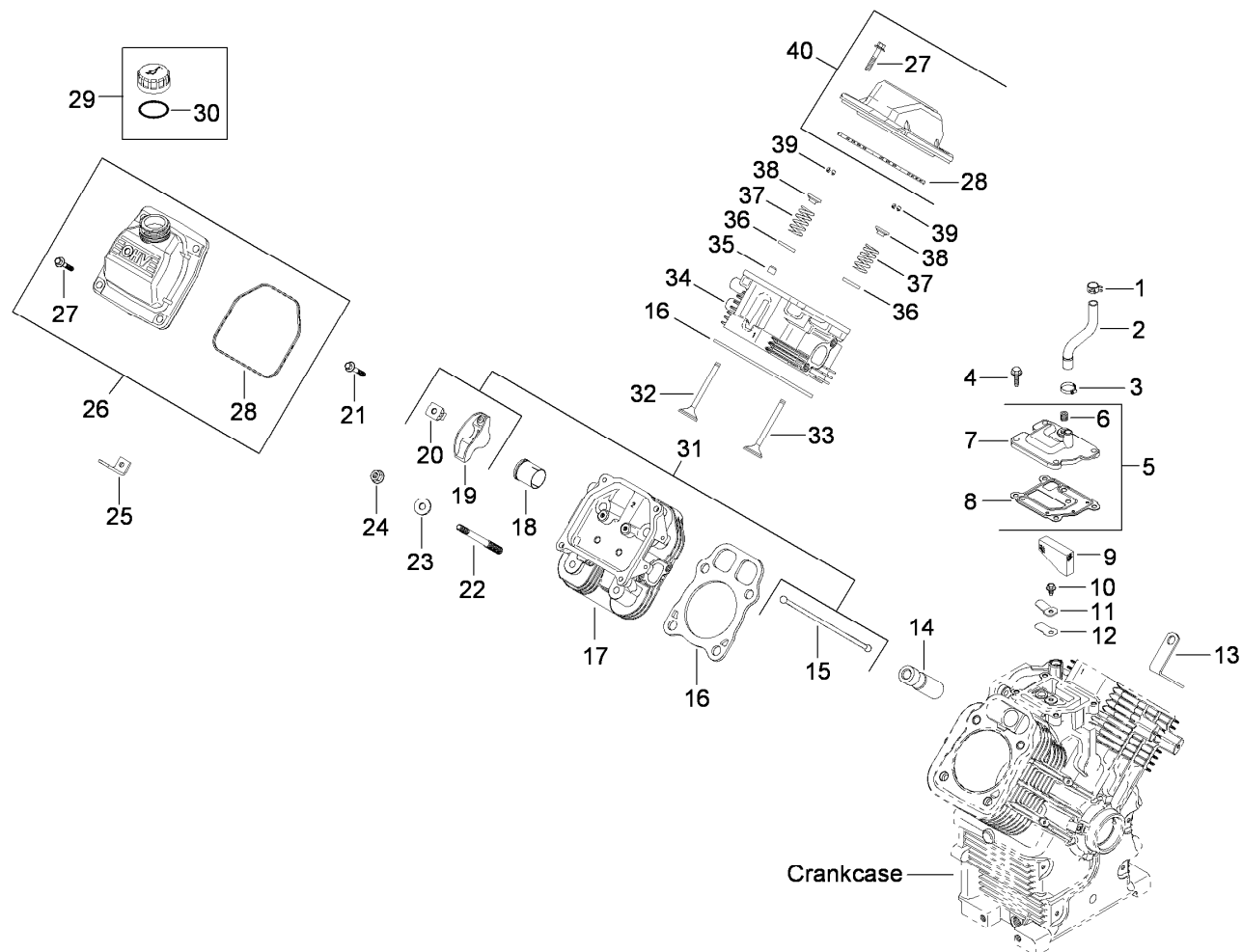


## Head, Valve and Breather Assembly Kohler CH740-0053

| Ref. | Part Number | Qty. | Description                    | Ref. | Part Number  | Qty. | Description                                                  |
|------|-------------|------|--------------------------------|------|--------------|------|--------------------------------------------------------------|
| 1    | 25 237 08-S | 1    | Clamp-Hose ■                   | 21   | M-640034-S   | 4    | Screw-Flange (M6X1.0X34) ■                                   |
| 2    | 24 326 96-S | 1    | Hose, Breather ■               | 22   | 24 072 09-S  | 8    | Stud-Head, Cylinder (M8X1.25Xm10X1.5X105Mm) ■                |
| 3    | 25 237 14-S | 1    | Clamp-Hose, Spring (1/2) ■     | 23   | 24 468 16-S  | 8    | Washer-Flat (8.6 Mm) ■                                       |
| 4    | M-645020-S  | 4    | Screw-HHFTF (M6X1.0X20) ■      | 24   | 24 100 10-S  | 8    | Nut-Flange (M8X1.25) ■                                       |
| 5    | 24 033 01-S | 1    | Breather Kit (Includes 6-8) ■  | 25   | 12 445 05-S  | 1    | Strap-Lifting ■                                              |
| 6    | 25 139 60-S | 1    | Plug-Pipe, Countersunk (1/8) ■ | 26   | 24 755 140-S | 1    | Valve Cover-Oil Fill Kit (Includes 28 [qty 1], 27 [qty 4]) ■ |
| 7    | 24 096 86-S | 1    | Cover-Breather ■               | 27   | M-651030-S   | 8    | Screw-Flange (M6X1.0X30) ■                                   |
| 8    | 24 041 51-S | 1    | Gasket-Breather ■              | 28   | 24 153 30-S  | 2    | O-Ring (Valve Cover) ■                                       |
| 9    | 24 050 11-S | 1    | Filter-Breather ■              | 29   | 24 755 46-S  | 1    | Oil Fill Cap Kit (Yellow) (Includes 30) ■                    |
| 10   | M-545010-S  | 1    | Screw-HHFTF (M5X.80X10) ■      | 30   | 25 153 02-S  | 1    | O-Ring (Dipstick) ■                                          |
| 11   | 66 018 04-S | 1    | Retainer-Reed ■                | 31   | 24 755 66-S  | 1    | Valve Train Kit (Includes 15, 19-20) ■                       |
| 12   | 24 402 03-S | 1    | Reed-Breather ■                | 32   | 24 017 01-S  | 2    | Valve-Intake (STD) ■                                         |
| 13   | 24 445 01-S | 1    | Strap-Lifting ■                | 33   | 24 016 01-S  | 2    | Valve-Exhaust (STD) ■                                        |
| 14   | 25 351 04-S | 4    | Hydraulic Valve Lifter Kit ■   | 34   | 24 318 65-S  | 1    | Cylinder Head ASM (No.1) ■                                   |
| 15   | 24 411 05-S | 4    | Rod-Push ■                     | 35   | 235011-S     | 4    | Retainer-Spring ■                                            |
| 16   | 24 841 03-S | 2    | Cylinder Head Gasket Kit ■     | 36   | 66 032 05-S  | 2    | Seal-Stem, Valve ■                                           |
| 17   | 24 318 66-S | 1    | Cylinder Head ASM (No.2) ■     |      |              |      |                                                              |
| 18   | 24 605 01-S | 2    | Liner-Port, Exhaust ■          |      |              |      |                                                              |
| 19   | 25 186 01-S | 4    | Arm-Rocker ■                   |      |              |      |                                                              |
| 20   | 24 599 02-S | 4    | Pivot-Arm, Rocker ■            |      |              |      |                                                              |

● Not illustrated

■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



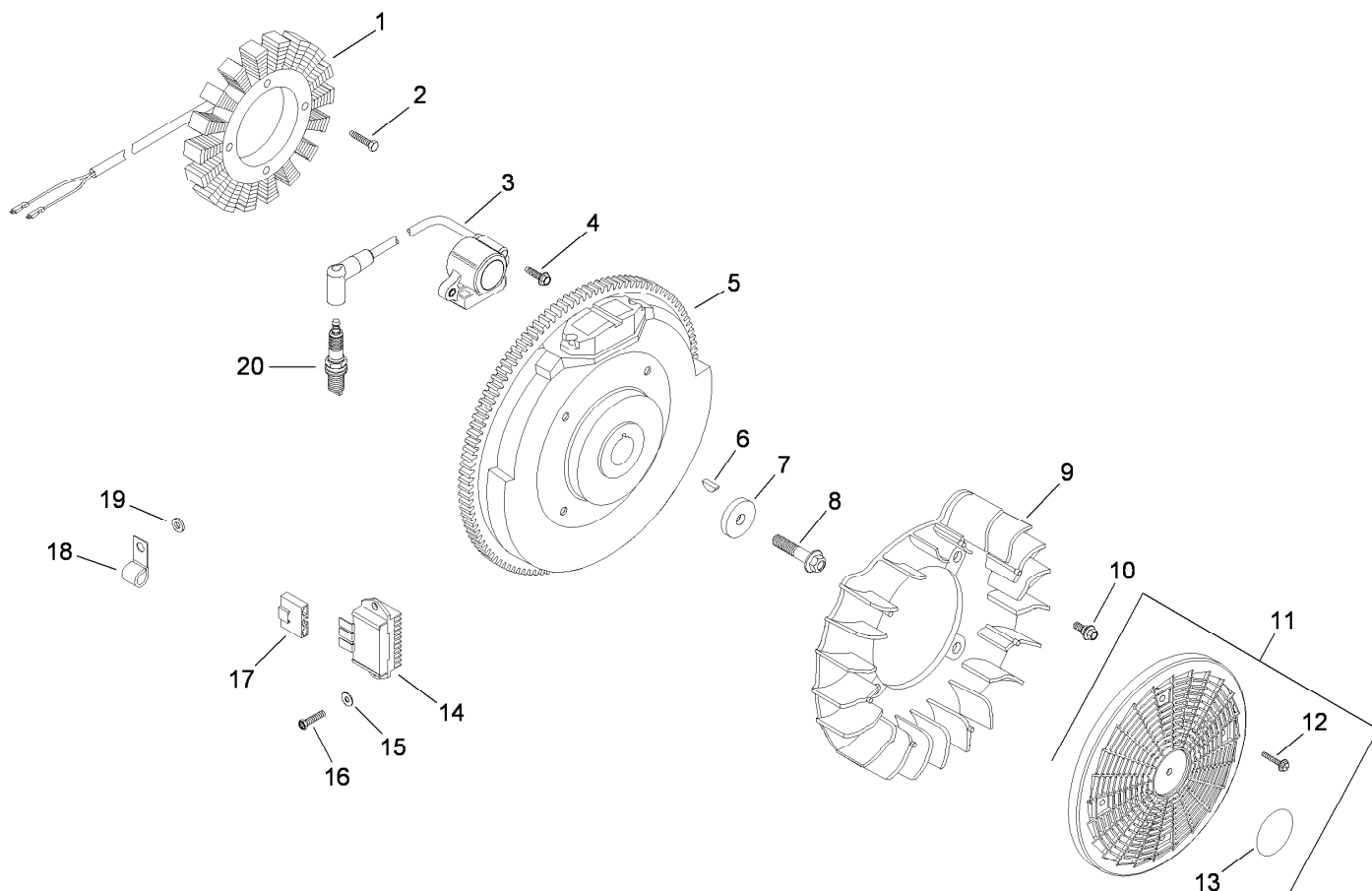
## Head, Valve and Breather Assembly Kohler CH740-0053 (continued)

| Ref. | Part Number  | Qty. | Description                                                  |
|------|--------------|------|--------------------------------------------------------------|
| 37   | 24 089 02-S  | 4    | Spring-Valve ■                                               |
| 38   | 12 173 01-S  | 4    | Cap-Spring, Valve ■                                          |
| 39   | 12 755 03-S  | 4    | Retainer Kit ■                                               |
| 40   | 24 755 141-S | 1    | Plain Valve Cover ASM<br>(Includes 28 [qty 1], 27 [qty 4]) ■ |

| Ref. | Part Number  | Qty. | Description                                                          |
|------|--------------|------|----------------------------------------------------------------------|
|      | 24 016 02-S  | 2    | Valve-Exhaust (.25) ● ■                                              |
|      | 24 017 02-S  | 2    | Valve-Intake (.25) ● ■                                               |
|      | 24 755 147-S | 2    | Cylinder Head Hardware Kit<br>(Includes 15, 19-21, 32-33, 35-39) ● ■ |

● Not illustrated

■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

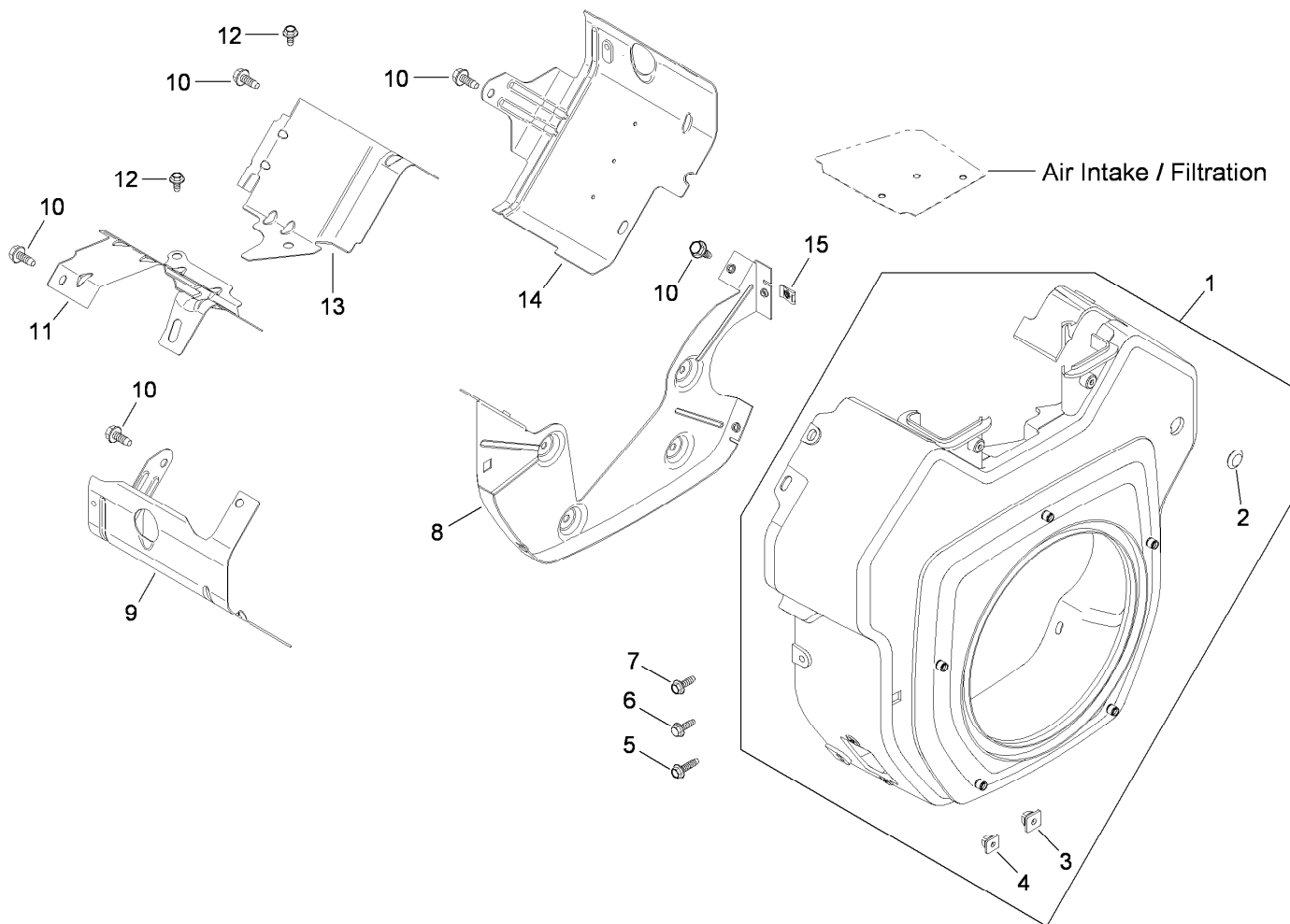


## Ignition and Electrical Assembly Kohler CH740-0053

| Ref. | Part Number | Qty. | Description                               | Ref. | Part Number  | Qty. | Description                     |
|------|-------------|------|-------------------------------------------|------|--------------|------|---------------------------------|
| 1    | 237878-S    | 1    | 15 Amp Stator Kit ■                       | 12   | 25 086 117-S | 4    | Screw-Flange, Sems (M4X.7X25) ■ |
| 2    | M-548025-S  | 2    | Screw-Thread Forming (M5X0.8X25) ■        | 13   | 24 113 18-S  | 1    | Decal-Screen, Grass ■           |
| 3    | 24 584 48-S | 2    | Module, Dsai (Sv735/Sv740/Ch740/Cv740) ■  | 14   | 25 403 05-S  | 1    | Rectifier-Regulator (15 Amp) ■  |
| 4    | M-545020-S  | 4    | Screw-Flange, Thread Forming (M5X.8X20) ■ | 15   | 25 468 07-S  | 2    | Washer-Flat (.22) ■             |
| 5    | 24 025 52-S | 1    | Flywheel ASM (Lw) ■                       | 16   | 24 086 18-S  | 2    | Screw-Phi HD (11-16X.88) ■      |
| 6    | X-42-15-S   | 1    | Key (3/16 X 5/8) ■                        | 17   | 236602-S     | 1    | Connector (3 Contact) ■         |
| 7    | 12 468 03-S | 1    | Washer-Flat (13/32) ■                     | 18   | 235173-S     | 1    | Clip-Cable ■                    |
| 8    | 12 086 14-S | 1    | Screw-Flange (M10X1.5X45) ■               | 19   | X-25-63-S    | 2    | Washer-Flat (1/4) ■             |
| 9    | 24 157 11-S | 1    | Fan ■                                     | 20   | 25 132 12-S  | 2    | Spark Plug (Pro Series) ■       |
| 10   | 25 086 47-S | 4    | Bolt-Shoulder (M6X1.0X16) ■               |      | 24 126 137-S | 1    | Bracket-Strap, Ground ■         |
| 11   | 54 755 15-S | 1    | Grass Screen Kit (Includes 12, 13) ■      |      | 12 454 03-S  | 1    | Tie-Wire ●■                     |
|      |             |      |                                           |      | 24 176 132-S | 1    | Harness-Wiring, D S A I ●■      |
|      |             |      |                                           |      | 24 176 44-S  | 1    | Harness-Wiring ●■               |
|      |             |      |                                           |      | 25 454 03-S  | 2    | Tie-Wire ●■                     |
|      |             |      |                                           |      | 25 518 34-S  | 1    | Lead ●■                         |

● Not illustrated

■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

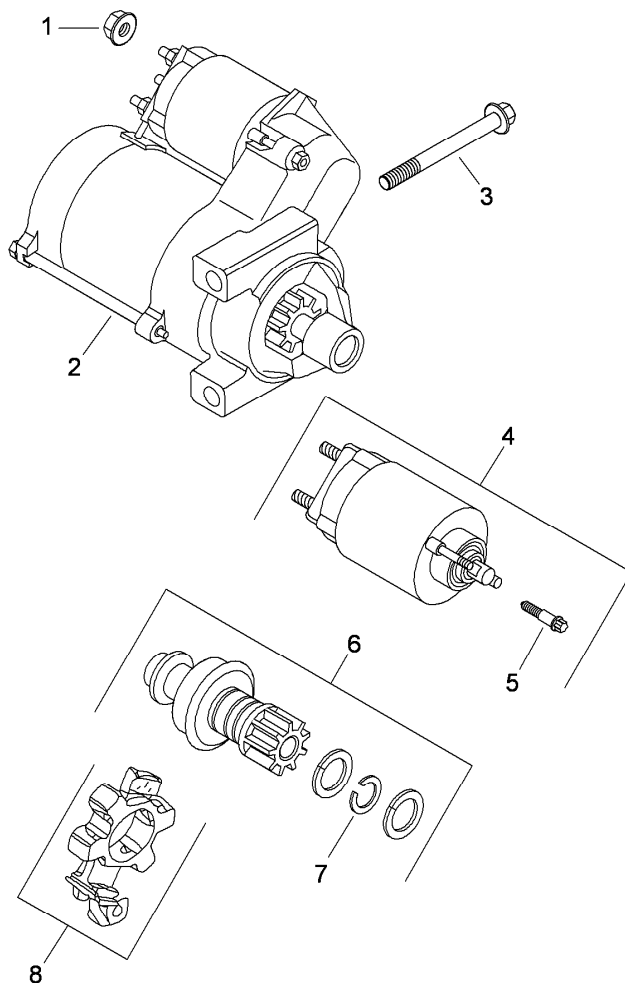


## Blower Housing and Baffle Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description                                         |
|------|--------------|------|-----------------------------------------------------|
| 1    | 24 027 178-S | 1    | Blower Housing ASM (Includes 2-4 And 41 037 10-S) ■ |
| 2    | 25 139 16-S  | 1    | Plug-Button (9/16) ■                                |
| 3    | 24 100 01-S  | 3    | Nut-Plastic ■                                       |
| 4    | 24 100 02-S  | 2    | Nut-Plastic ■                                       |
| 5    | M-545020-S   | 4    | Screw-Flange, Thread Forming (M5X.8X20) ■           |
| 6    | M-561016-S   | 1    | Screw-Flange, Thread Forming (M5X.80X16) ■          |
| 7    | M-545016-S   | 2    | Screw-Flange, Thread Forming (M5X0.8X16) ■          |
| 8    | 24 146 53-S  | 1    | Plate-Backing ■                                     |
| 9    | 24 063 76-S  | 1    | Baffle-Barrel, Cylinder (No.2 Side) ■               |
| 10   | M-645016-S   | 6    | Screw-Flange, Thread Forming (M6X1.0X16) ■          |
| 11   | 24 063 70-S  | 1    | Baffle-Valley (No. 2 Side) ■                        |
| 12   | M-545010-S   | 2    | Screw-HHFTF (M5X.80X10) ■                           |
| 13   | 24 063 59-S  | 1    | Baffle-Valley (No. 1 Side) ■                        |
| 14   | 24 063 81-S  | 1    | Baffle-Barrel, Cyl (No.1 Side) ■                    |
| 15   | 25 154 11-S  | 1    | Clip-Repair (Speed Nut) ■                           |
|      | 41 037 10-S  | 1    | Nameplate-Service ● ■                               |

● Not illustrated

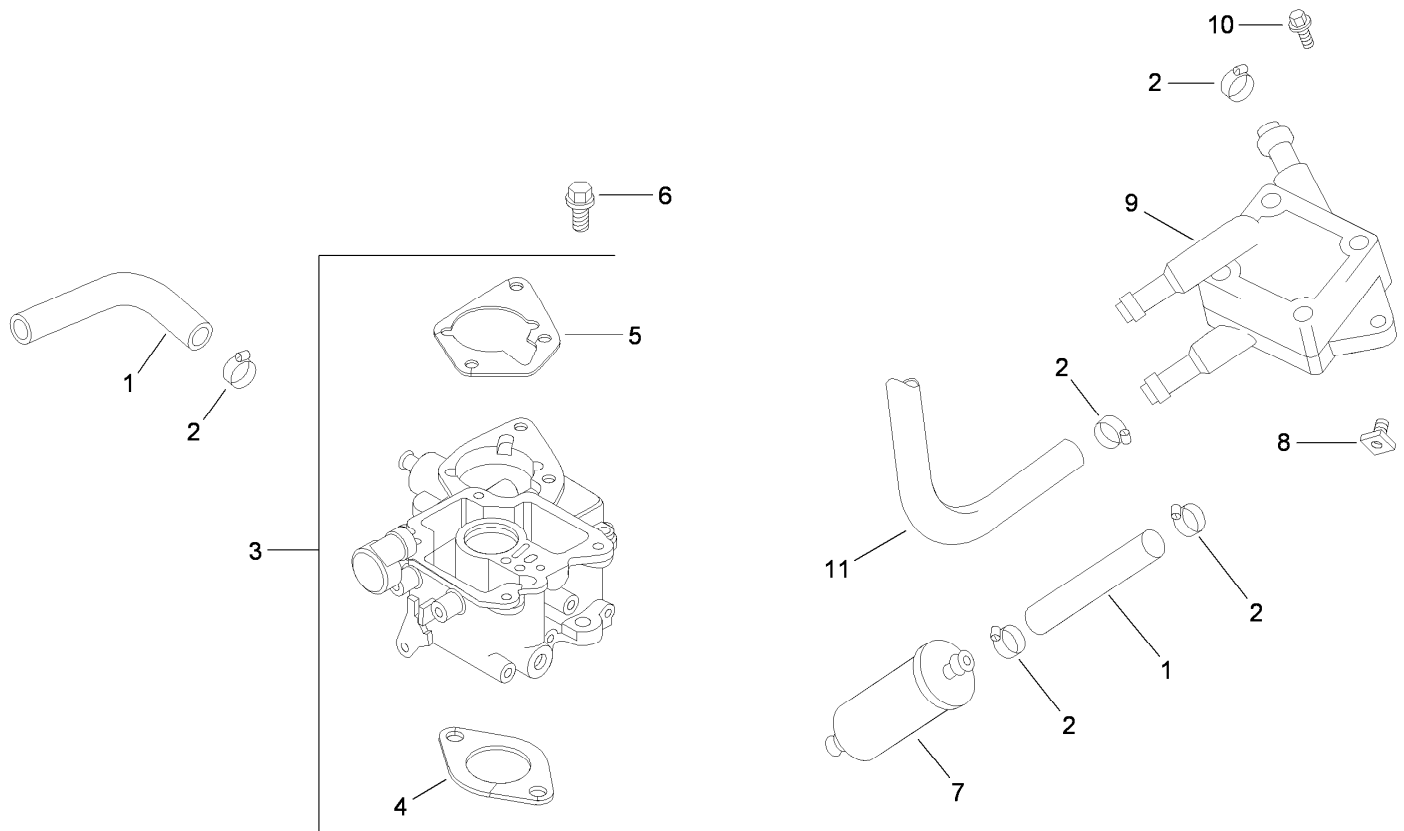
■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



## Starting System Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description                       |
|------|--------------|------|-----------------------------------|
| 1    | M-841080-S   | 1    | Nut-Flange (M8X1.25) ●            |
| 2    | 25 098 09-S  | 1    | Starter ASM (Solenoid Shift) ●    |
| 3    | M-839080-S   | 2    | Screw-Flg (M8X1.25X80) ●          |
| 4    | 25 435 06-S  | 1    | Solenoid Kit (Includes 5) ●       |
| 5    | 25 086 113-S | 3    | Screw-Torx Head, External ●       |
| 6    | 25 755 33-S  | 1    | Starter Pinion Kit (Includes 7) ● |
| 7    | 25 141 05-S  | 1    | Ring-Retaining ●                  |
| 8    | 25 221 01-S  | 1    | Brush Holder Kit ●                |

● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

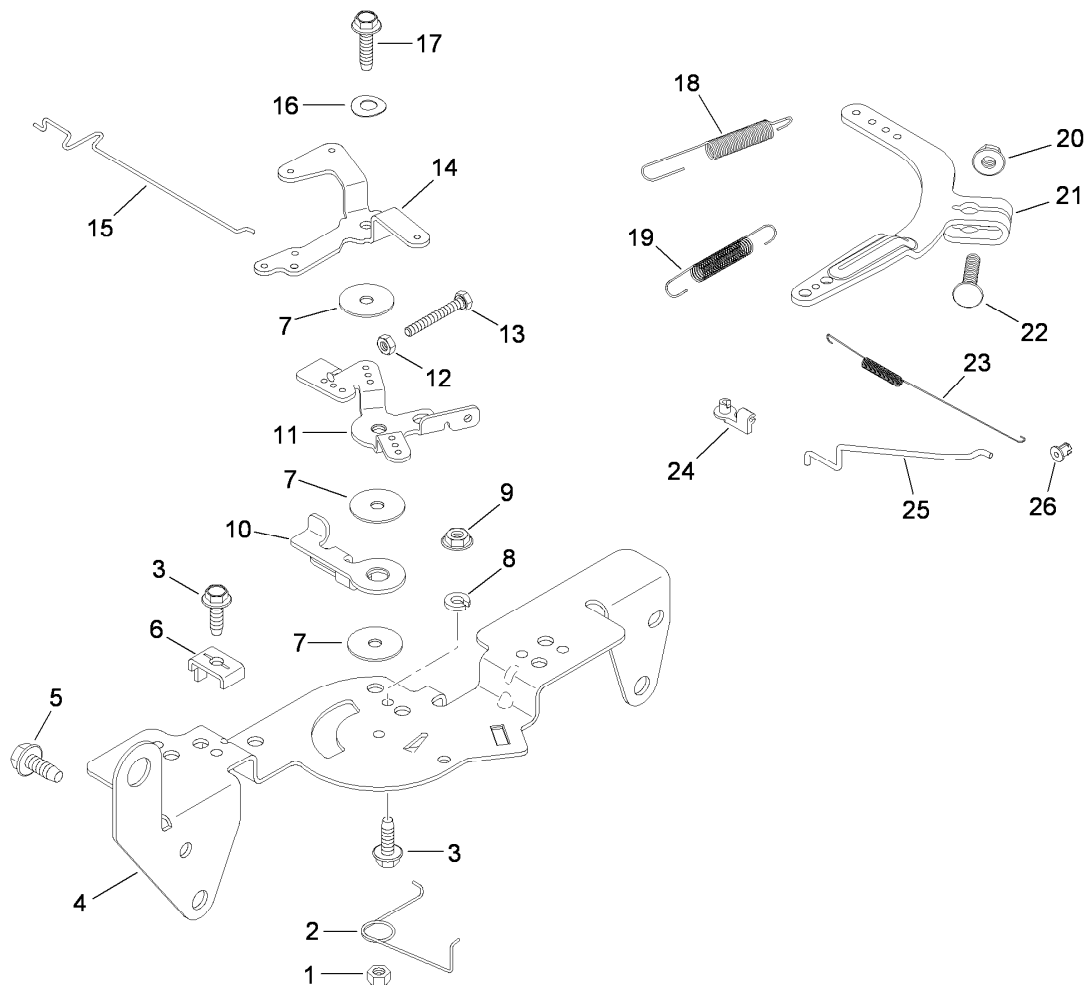


## Fuel System Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description                                  |
|------|--------------|------|----------------------------------------------|
| 1    | 25 111 34-S  | 2    | Line-Fuel (24.0 Cut To Length) ■             |
| 2    | 25 237 14-S  | 2    | Clamp-Hose, Spring (0.5) ■                   |
| 3    | 24 853 93-S  | 1    | Carburetor And Gaskets Kit (Includes 4, 5) ■ |
| 4    | 24 041 17-S  | 1    | Gasket-Carburetor ■                          |
| 5    | 24 041 06-S  | 1    | Gasket-Base, Air Cleaner ■                   |
| 6    | M-651030-S   | 2    | Screw-Flange (M6X1.0X30) ■                   |
| 7    | 24 050 09-S  | 1    | Filter-Fuel ■                                |
| 8    | 24 100 01-S  | 2    | Nut-Plastic ■                                |
| 9    | 24 393 16-S  | 1    | Pump-Fuel ■                                  |
| 10   | 24 086 12-S  | 2    | Screw-TAP (M6X1.7X18) ■                      |
| 11   | 24 353 02-S  | 1    | Line-Fuel, Flexible (15.5) ■                 |
|      | 24 755 137-S | 1    | High Altitude Kit (10,000+ Ft) ● ■           |
|      | 24 757 07-S  | 1    | Choke Repair Kit ● ■                         |
|      | 24 757 02-S  | 1    | Float Repair Kit ■ ●                         |
|      | 24 757 01-S  | 1    | Solenoid Repair Kit ● ■                      |
|      | 24 757 03-S  | 1    | Carburetor Repair Kit ● ■                    |
|      | 24 757 08-S  | 1    | Accelerator Pump Repair Kit ● ■              |
|      | 24 757 09-S  | 1    | Accelerator Pump Seal Repair Kit ● ■         |
|      | 24 755 138-S | 1    | High Altitude Kit (5-10,000 Ft) ● ■          |

● Not illustrated

■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)

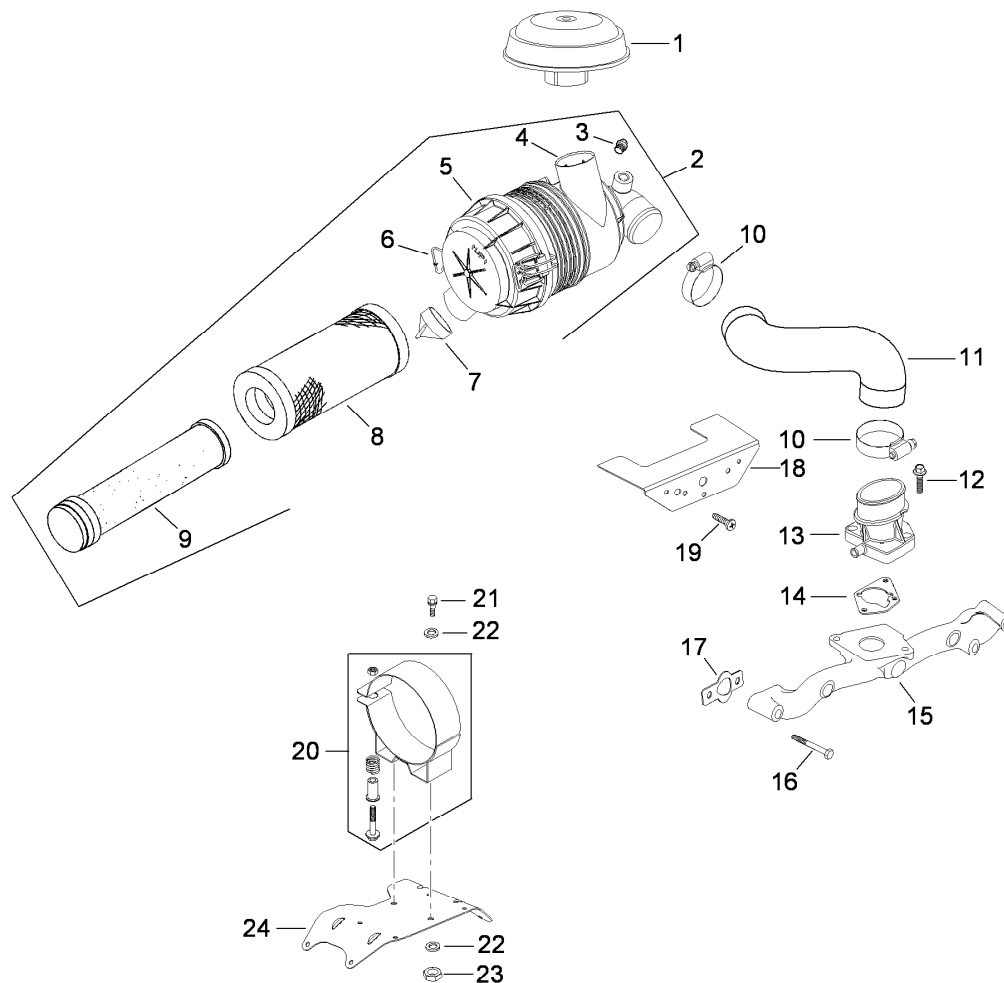


## Engine Control Assembly Kohler CH740-0053

| Ref. | Part Number | Qty. | Description                                |
|------|-------------|------|--------------------------------------------|
| 1    | M-547050-S  | 1    | Nut-Lock (M5X.8) ●                         |
| 2    | 24 089 03-S | 1    | Spring-Return, Choke ●                     |
| 3    | M-545016-S  | 1    | Screw-Flange, Thread Forming (M5X0.8X16) ● |
| 4    | 24 126 56-S | 1    | Bracket-Control ●                          |
| 5    | M-645016-S  | 4    | Screw-Flange, Thread Forming (M6X1.0X16) ● |
| 6    | 12 237 01-S | 2    | Clamp-Cable ●                              |
| 7    | 24 468 01-S | 3    | Washer-Flat (5.5Mm) ●                      |
| 8    | X-20-1-S    | 1    | Washer-Lock (.25) ●                        |
| 9    | M-541050-S  | 1    | Nut-HF (M5X0.8) ●                          |
| 10   | 24 090 07-S | 1    | Lever-Actuator, Throttle ●                 |
| 11   | 24 090 03-S | 1    | Lever-Control, Throttle ●                  |
| 12   | M-446030-S  | 1    | Nut (M4X0.7) ●                             |
| 13   | M-401030-S  | 1    | Screw (M4X0.7X30) ●                        |
| 14   | 24 090 05-S | 1    | Lever-Choke ●                              |

| Ref. | Part Number | Qty. | Description                               |
|------|-------------|------|-------------------------------------------|
| 15   | 24 079 21-S | 1    | Linkage-Choke ●                           |
| 16   | 41 468 03-S | 1    | Washer-Spring (1/4) ●                     |
| 17   | M-545020-S  | 1    | Screw-Flange, Thread Forming (M5X.8X20) ● |
| 18   | 24 089 51-S | 1    | Spring-Limiter, Throttle ●                |
| 19   | 24 089 44-S | 1    | Spring-Governor ●                         |
| 20   | M-641060-S  | 1    | Nut-Flange (M6X1.0) ●                     |
| 21   | 24 090 33-S | 1    | Lever-Governor ●                          |
| 22   | 24 211 03-S | 1    | Bolt-Sq Neck, Rd HD (M6X1.0X25) ●         |
| 23   | 24 089 01-S | 1    | Spring-Linkage ●                          |
| 24   | 25 158 11-S | 1    | Bushing-Retaining, Linkage ●              |
| 25   | 24 079 01-S | 1    | Linkage-Throttle ●                        |
| 26   | 25 158 08-S | 1    | Bushing-Linkage, Throttle ●               |

● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



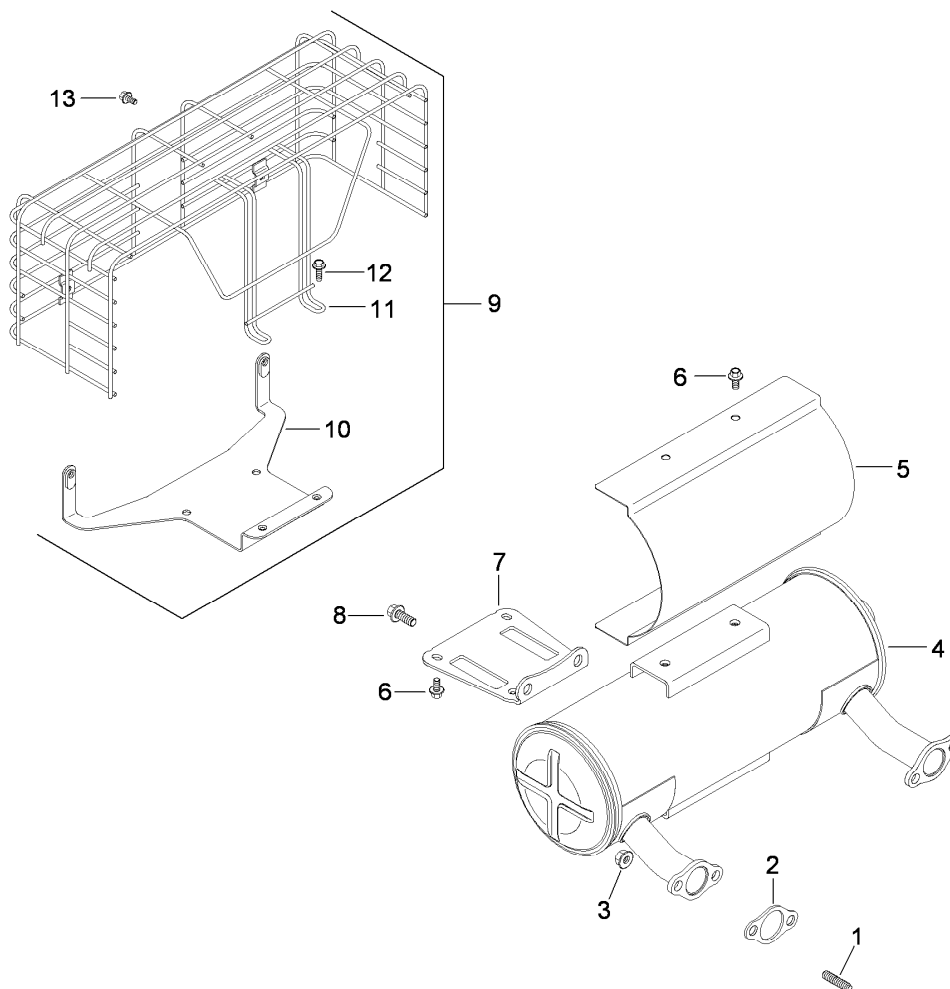
## Air Intake and Filtration Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description                       |
|------|--------------|------|-----------------------------------|
| 1    | 25 324 02-S  | 1    | Hood-Cleaner, Air ■               |
| 2    | 25 048 11-S  | 1    | Cleaner-Canister, Air ■           |
| 3    | 25 139 20-S  | 1    | Plug-Pipe ■                       |
| 4    | 25 081 01-S  | 1    | Housing-Air Cleaner, Heavy Duty ■ |
| 5    | 25 096 06-S  | 1    | Air Cleaner Cover ASM ■           |
| 6    | 25 154 05-S  | 2    | Clip ■                            |
| 7    | 24 462 07-S  | 1    | Valve-Ejector, Dust ■             |
| 8    | 25 083 01-S  | 1    | Element-Air Filter, Primary ■     |
| 9    | 25 083 04-S  | 1    | Element-Air Filter, Safety ■      |
| 10   | 25 237 21-S  | 1    | Clamp-Hose ■                      |
| 11   | 24 326 71-S  | 1    | Hose-Cleaner, Air ■               |
| 12   | 25 086 124-S | 2    | Screw-Flange (M6X1.0X25) ■        |

| Ref. | Part Number  | Qty. | Description                   |
|------|--------------|------|-------------------------------|
| 13   | 24 029 61-S  | 1    | Adapter-Air Cleaner, Remote ■ |
| 14   | 24 041 06-S  | 1    | Gasket-Base, Air Cleaner ■    |
| 15   | 24 164 14-S  | 1    | Manifold-Intake ■             |
| 16   | 25 086 84-S  | 4    | Screw-HF (M6X1.0X55) ■        |
| 17   | 24 041 01-S  | 2    | Gasket-Manifold, Intake ■     |
| 18   | 24 314 25-S  | 1    | Shield-Debris ■               |
| 19   | 24 086 06-S  | 2    | Screw-PPH (11-16X3/4) ■       |
| 20   | 25 126 02-S  | 1    | Air Cleaner Bracket ASM ■     |
| 21   | M-639016-S   | 2    | Screw-HF (M6X1.0X16) ■        |
| 22   | X-25-73-S    | 4    | Washer-Flat (1/4) ■           |
| 23   | M-647060-S   | 2    | Nut-Lock (M6X1.0) ■           |
| 24   | 24 126 146-S | 1    | Bracket-Cleaner, Air ■        |
|      | 25 454 04-S  | 1    | Tie-Wire ● ■                  |

● Not illustrated

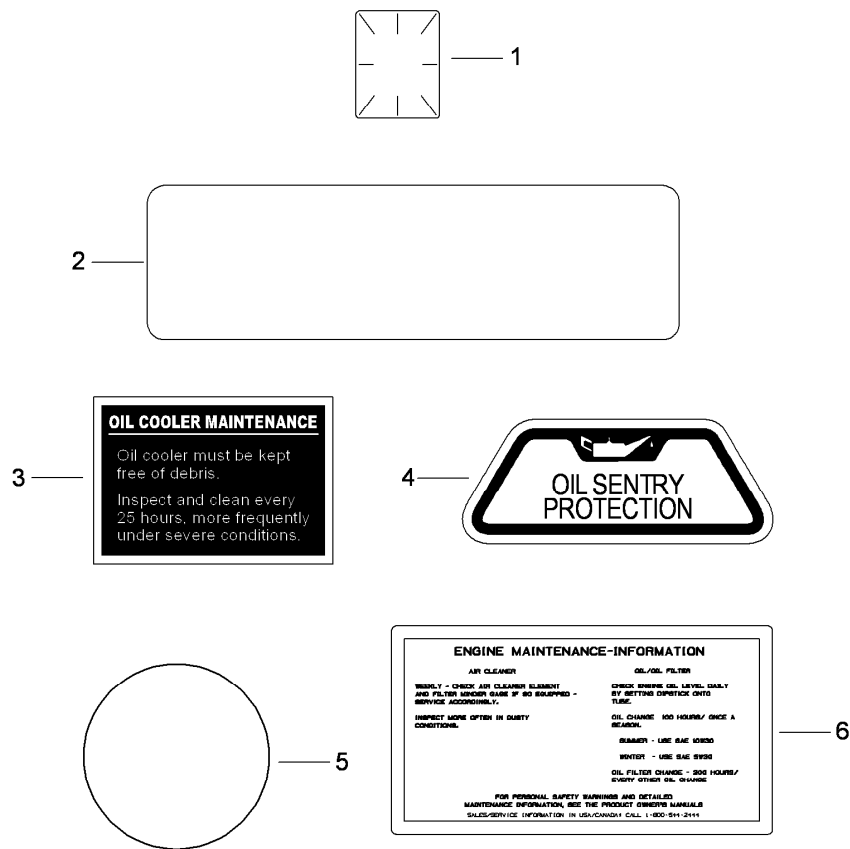
■ Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



## Exhaust Assembly Kohler CH740-0053

| Ref. | Part Number | Qty. | Description                                |
|------|-------------|------|--------------------------------------------|
| 1    | 25 072 14-S | 4    | Stud (M8X1.25X33) ●                        |
| 2    | 24 041 49-S | 2    | Gasket-Exhaust ●                           |
| 3    | M-841080-S  | 4    | Nut-Flange (M8X1.25) ●                     |
| 4    | 24 068 56-S | 1    | Muffler ASM (Includes 2) ●                 |
| 5    | 24 314 04-S | 1    | Shield-Heat ●                              |
| 6    | M-650012-S  | 4    | Screw-HF (M6X1.0X12) ●                     |
| 7    | 24 126 12-S | 1    | Bracket-Muffler ●                          |
| 8    | M-839020-S  | 2    | Screw-HF (M8X1.25X20) ●                    |
| 9    | 24 755 80-S | 1    | Muffler Guard Kit (Includes Ref 10-13) ●   |
| 10   | 24 126 48-S | 1    | Bracket-Guard, Muffler ●                   |
| 11   | 24 314 02-S | 1    | Guard-Muffler ●                            |
| 12   | M-545016-S  | 2    | Screw-Flange, Thread Forming (M5X0.8X16) ● |
| 13   | M-550010-S  | 2    | Screw-HF (M5X0.8X10) ●                     |

● Obtain parts from [www.kohlerplus.com](http://www.kohlerplus.com)



Artwork is representative  
Actual labels may differ depending on model and specification number

## Decal Assembly Kohler CH740-0053

| Ref. | Part Number  | Qty. | Description             |
|------|--------------|------|-------------------------|
| 1    | 25 113 39-S  | 1    | Decal-Laminate, Clear ● |
| 2    | 24 113 124-S | 1    | Decal-27 Hp ●           |
| 3    | 24 113 25-S  | 1    | Decal-Cooler, Oil ●     |
| 4    | 25 113 05-S  | 1    | Decal-Sentry, Oil ●     |
| 5    | 25 113 24-S  | 1    | Decal-Screen, Grass ●   |
| 6    | 25 113 27-S  | 1    | Decal-Cleaner, Air ●    |

# Attachments and Accessories

## For 09802 HydroJect 3010 Aerator

| Product Name                 | Model/Part |
|------------------------------|------------|
| Chemical Injection Kit ..... | 09830      |
| Lift Kit.....                | 09831      |
| Hydrotote Trailer .....      | 09833      |
| Pump Seal Kit.....           | 80-9640    |
| Water Valve Kit .....        | 80-9660    |
| Pre-Filter Kit.....          | 92-9544    |

**Notes:**



**Count on it.**