Form Number 3329-111

# Dingo® 220
## Compact Utility Loader

**Model No. 22311 - 240000001 and up.**

# Parts Catalog

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

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

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

**Service Assembly Reference Numbers**

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

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

**Reference Numbers Indicating Quantity**

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

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

**©The Toro Company - 2003**
**All Rights Reserved**

# Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

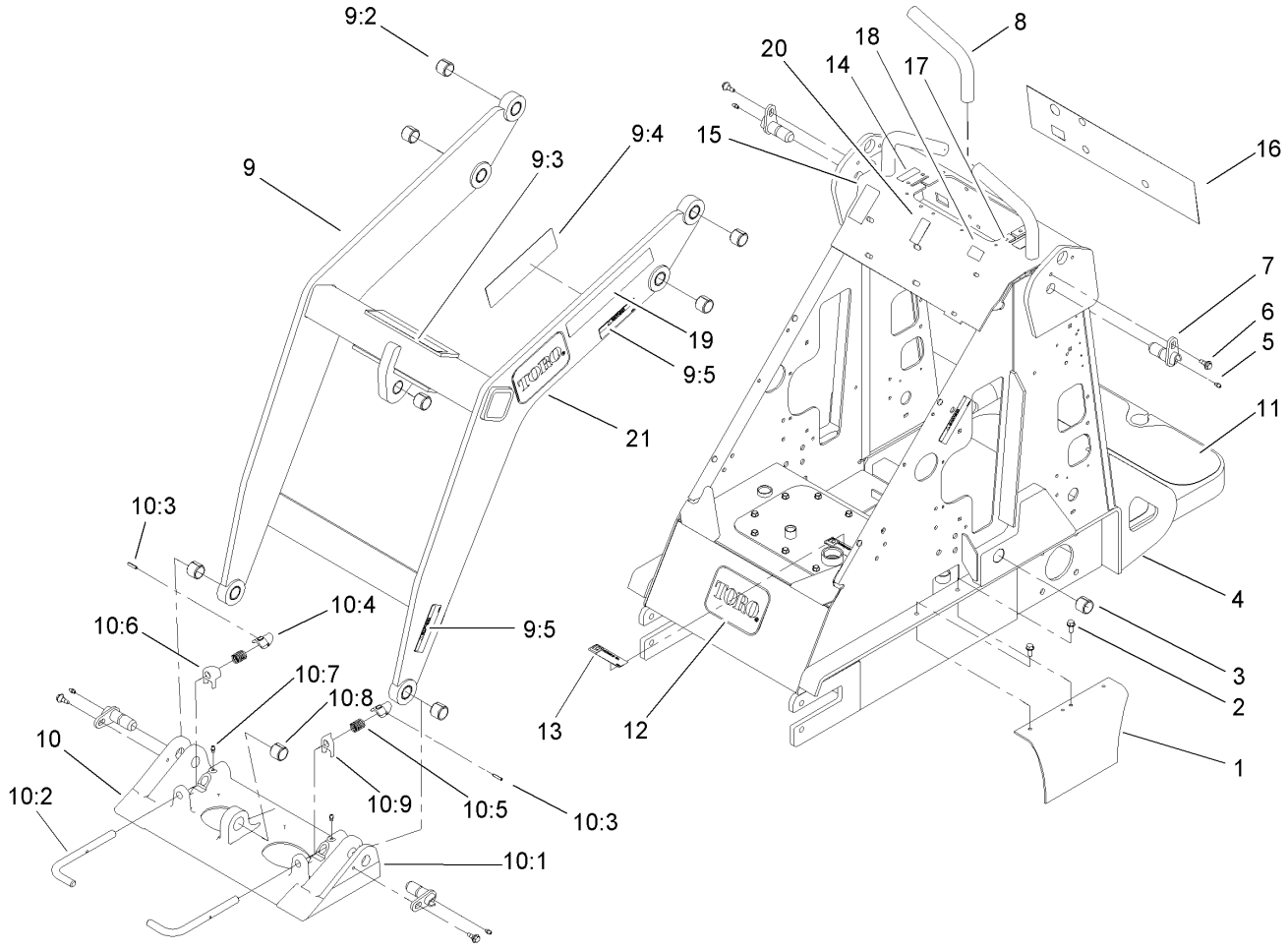
AR. . . . . as required
ASM. . . . . assembly
CARR. . . . . carriage
DEG. . . . . degrees
FH. . . . . flat head
GA. . . . . gauge
HF. . . . . hex flange
HH. . . . . hex head
HHF. . . . . hex head flange
HHFTF. . . . . hex head flange thread forming
HJ. . . . . hex jam
HLH. . . . . hex lag head
HOC. . . . . height-of-cut
HS. . . . . hex
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
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
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
WH. . . . . wing head

# Footnotes

❶ Not illustrated
❷ Not serviced separately
❸ Obtain Parts From Kohler

# Contents

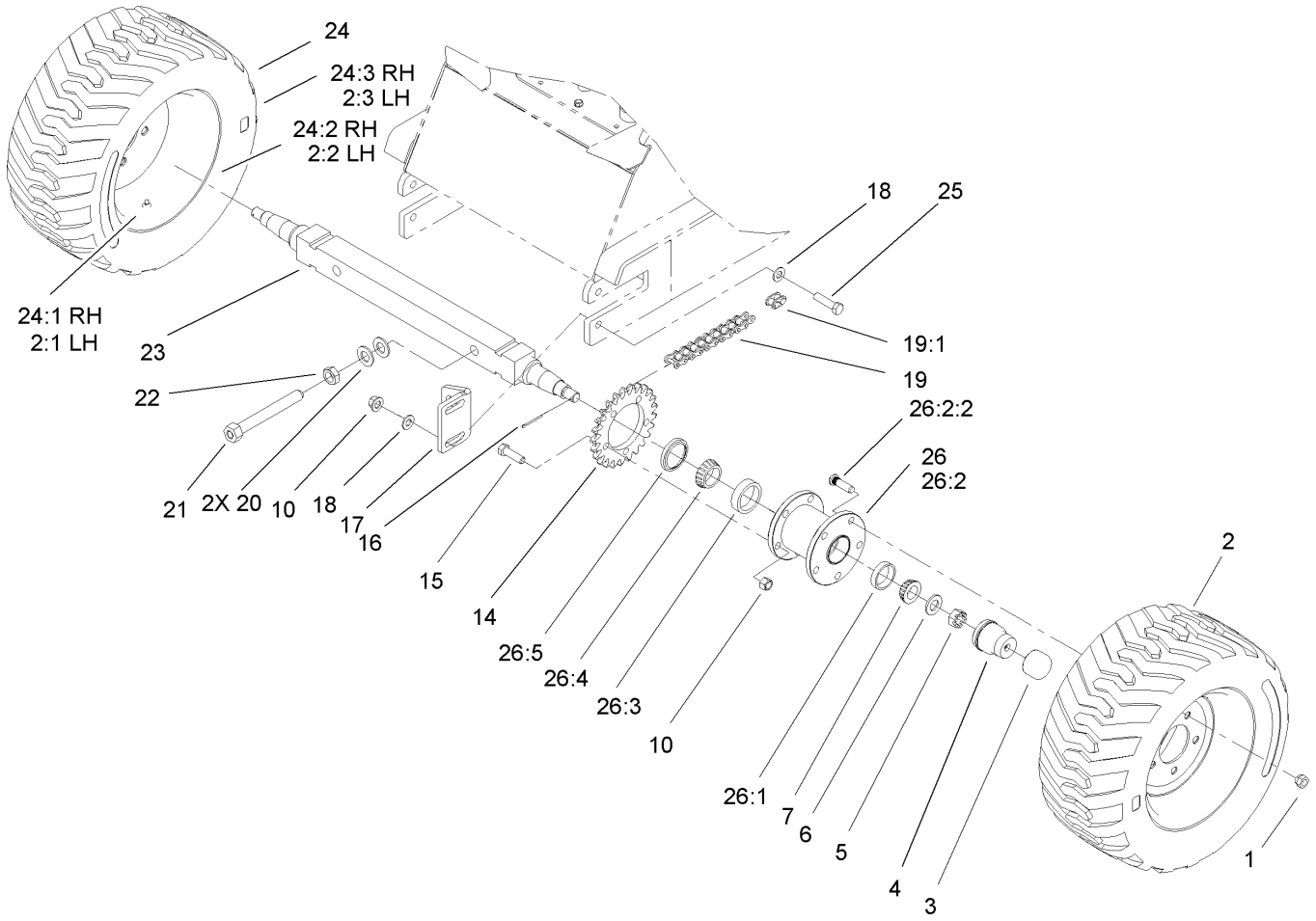

| Description | Page |
|---|---|
| Frame and Loader Arm Assembly | 3 |
| Front Wheel Assembly | 4 |
| Rear Wheel Assembly | 5 |
| Hydraulic Motor Assembly No. 99-3052 | 6 |
| Engine Assembly | 7 |
| Hydraulic Assembly | 8 |
| Hydraulic Valve Assembly | 9 |
| Hydraulic Valve Assembly No. 104-4221 | 10 |
| Hydraulic Selector Valve Assembly No. 99-3072 | 11 |
| Hydraulic Valve Assembly No. 99-3077 | 12 |
| Hydraulic Traction Assembly | 13 |
| Hydraulic Valve Assembly No. 105-6246 | 15 |
| Hydraulic Cylinder Assembly | 16 |
| Hydraulic Cylinder Assembly No. 105-7867 | 17 |
| Electrical Assembly | 18 |
| Group 1-Crankshaft Assembly Kohler CH20S-64667 | 19 |
| Group 2-Crankcase Assembly Kohler CH20S-64667 | 20 |
| Group 3-Oil Pan/Lubrication Assembly Kohler CH20S-64667 | 21 |
| Group 4-Head/Valve/Breather Assembly Kohler CH20S-64667 | 22 |
| Group 5-Ignition/Electrical Assembly Kohler CH20S-64667 | 23 |
| Group 6-Blower Housing Assembly Kohler CH20S-64667 | 24 |
| Group 7-Starter Assembly Kohler CH20S-64667 | 25 |
| Group 8-Fuel System Assembly Kohler CH20S-64667 | 26 |
| Group 9-Engine Control Assembly Kohler CH20S-64667 | 27 |
| Group 10-Air Intake/Filtration Assembly Kohler CH20S-64667 | 28 |
| Group 11-Exhaust Assembly Kohler CH20S-64667 | 29 |




# Frame and Loader Arm Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98-4669-01 | 2 | Cover-Chain |
| 2 | 32144-70 | 4 | Screw-HH |
| 3 | 98-4871 | 2 | Bushing-Tension |
| 4 | 105-8363 | 1 | Frame ASM |
| 5 | 302-5 | 4 | Fitting-Grease |
| 6 | 99-5105 | 4 | Bolt-Shoulder |
| 7 | 99-1414 | 4 | Pin-Pivot |
| 8 | 98-4845 | 2 | Grip-Cushion |
| 9 | 106-8155 | 1 | Loader Arm ASM |
| 9:2 | 98-4871 | 7 | Bushing-Tension |
| 9:3 | 98-4682 | 1 | Decal-Caution |
| 9:4 | 98-9051 | 1 | Decal-Danger |
| 9:5 | 100-6141 | 4 | Decal-Pinch |
| 10 | 105-8364 | 1 | Quick Attach ASM |
| 10:1 | 105-0245-03 | 1 | Mount-Attach, Quick |
| 10:2 | 105-8367 | 2 | Pin-Locking |
| 10:3 | 3285-1 | 2 | Pin-Grooved |
| 10:4 | 105-0246 | 2 | Cam |
| 10:5 | 98-4694 | 2 | Spring-Compression |
| 10:6 | 104-5909 | 1 | Stop-RH |
| 10:7 | 302-5 | 2 | Fitting-Grease |
| 10:8 | 98-4871 | 1 | Bushing-Tension |
| 10:9 | 104-5903 | 1 | Stop-LH |
| 11 | 98-9947 | 2 | Tread-Foot |

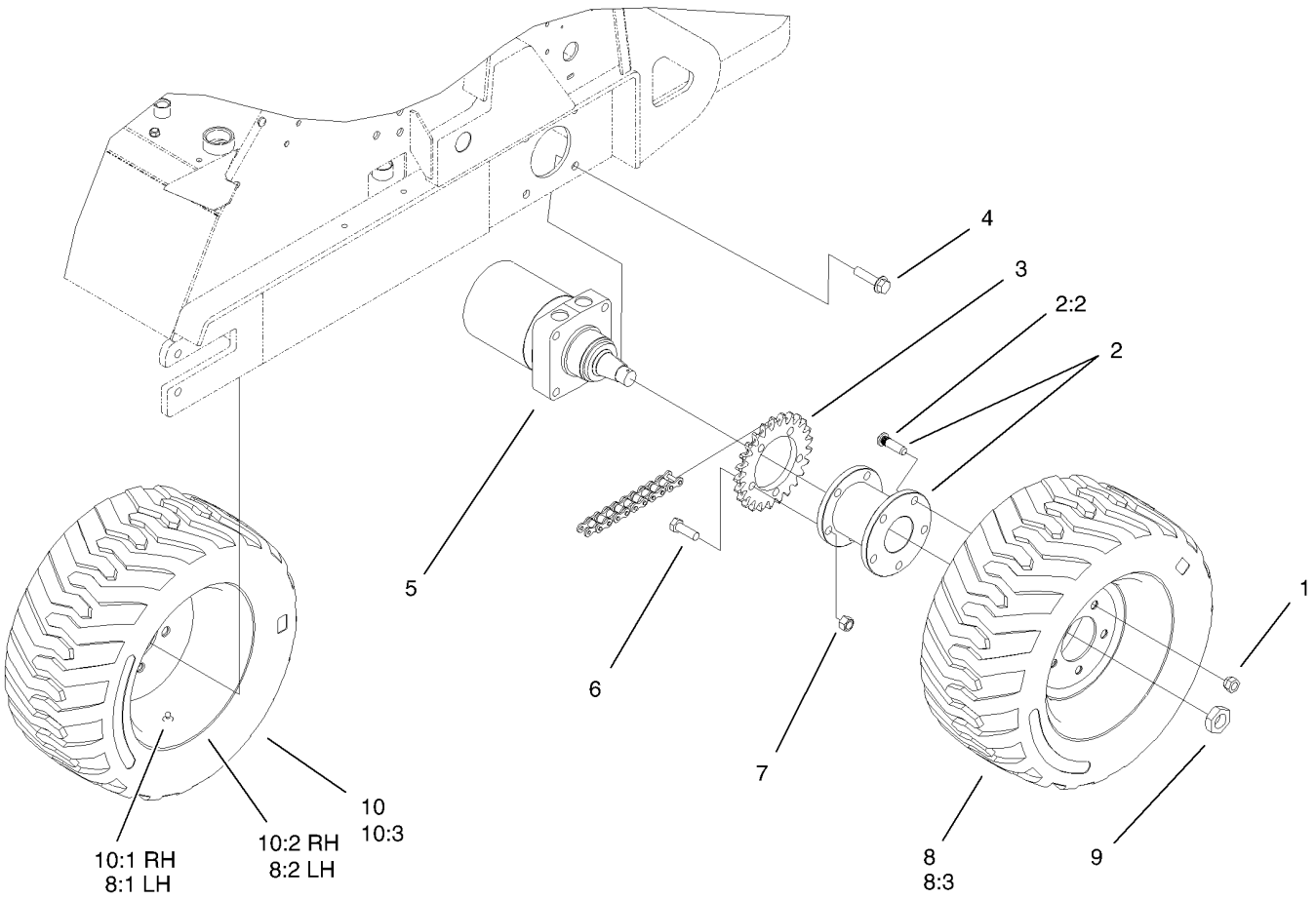
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 12 | 62-5550 | 1 | Decal-Logo |
| 13 | 105-8432 | 1 | Decal-Oil, Hydraulic |
| 14 | 94-2551 | 1 | Decal-Choke |
| 15 | 98-4677 | 1 | Decal-Power, Auxiliary |
| 16 | 99-3157 | 1 | Decal-Panel, Control |
| 17 | 98-8219 | 1 | Decal-Throttle |
| 18 | 98-8220 | 1 | Decal-Limiter, Speed |
| 19 | 105-8426 | 2 | Decal-Dingo 220 |
| 20 | 98-8235 | 1 | Decal-Selector |
| 21 | 93-7340 | 2 | Decal-Logo |




# Front Wheel Assembly

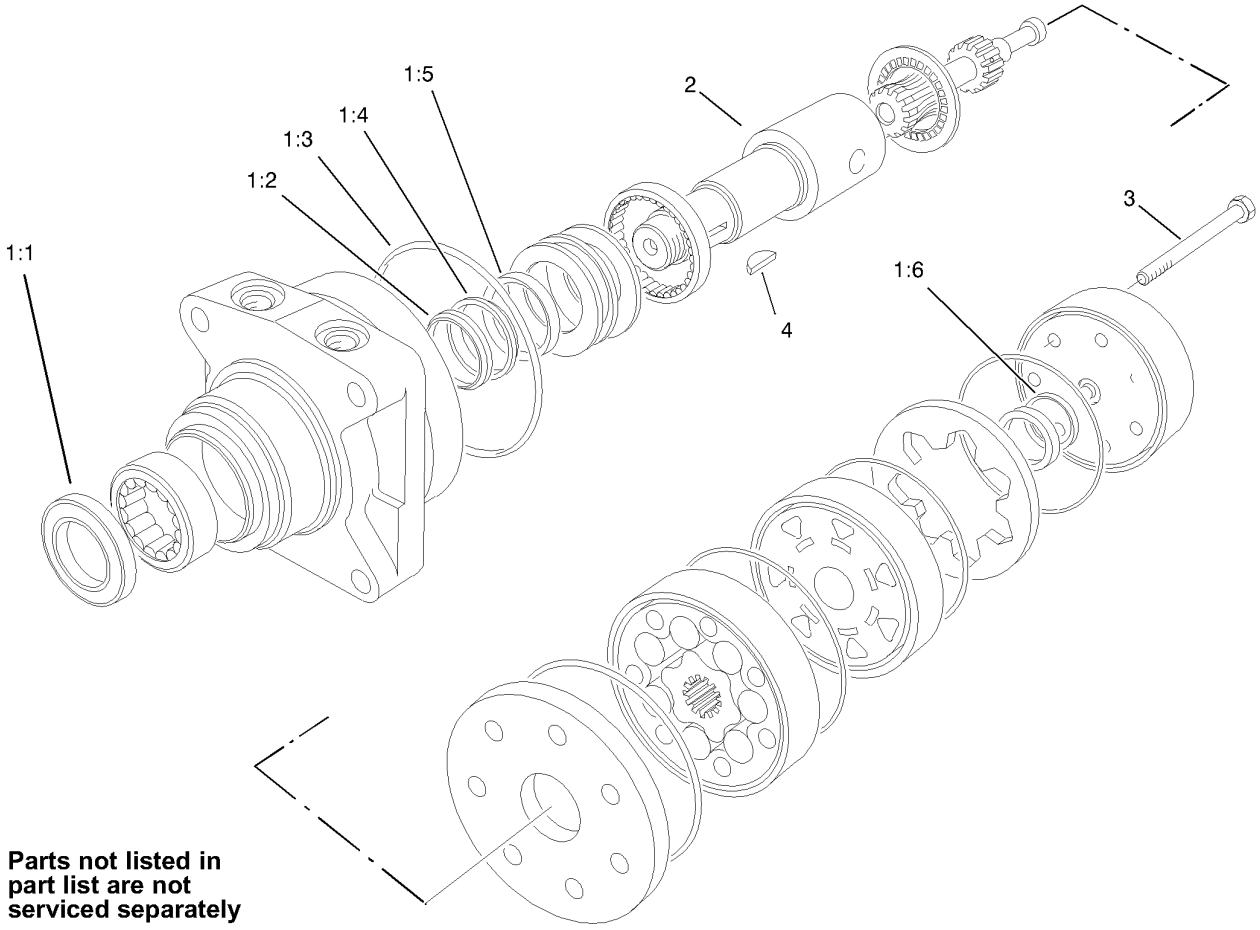
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 242-50 | 10 | Nut-Lug |
| 2 | 98-2747 | 1 | LH Wheel And Tire ASM |
| 2:1 | 232-27 | 1 | Stem-Valve |
| 2:2 | 98-2748 | 1 | Wheel |
| 2:3 | 98-2749 | 1 | Tire-Loader Style |
| 3 | 100-3809 | 2 | Cap-Protector, Bearing |
| 4 | 100-3769 | 2 | Protector-Bearing |
| 5 | 32136-5 | 2 | Nut-Slotted |
| 6 | 3256-28 | 2 | Washer-Flat |
| 7 | 254-94 | 2 | Bearing-Cone, Taper |
| 10 | 3296-23 | 14 | Nut-Lock, NI |
| 14 | 98-9937 | 2 | Sprocket - 25t |
| 15 | 325-7 | 10 | Screw-HH |
| 16 | 3272-12 | 2 | Pin-Cotter |
| 17 | 99-5106-03 | 2 | Bracket-Axle |
| 18 | 3256-26 | 8 | Washer-Flat |
| 19 | 98-4906 | 2 | Chain-Roller |
| 19:1 | 98-9089 | 1 | Link - Connecting |
| 20 | 3256-28 | 4 | Washer-Flat |
| 21 | 98-4706 | 2 | Bolt-Tension |
| 22 | 3217-12 | 2 | Nut-Hex |
| 23 | 98-4825 | 1 | Axle |
| 24 | 99-1447 | 1 | RH Wheel And Tire ASM |
| 24:1 | 232-27 | 1 | Stem-Valve |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 24:2 | 98-2748 | 1 | Wheel |
| 24:3 | 98-2749 | 1 | Tire-Loader Style |
| 25 | 325-8 | 4 | Screw-HH |
| ❷26 | | 2 | Hub-Front |
| 26:1 | 254-72 | 1 | Bearing-Cup, Tapered |
| 26:2 | 100-9989 | 1 | Front Hub ASM |
| 26:2:2 | 10-6830 | 5 | Stud-Type, Drive |
| 26:3 | 254-107 | 1 | Cup-Bearing, Tapered |
| 26:4 | 254-106 | 1 | Cone-Bearing, Tapered |
| 26:5 | 98-4705 | 1 | Seal-Bearing, Wheel |



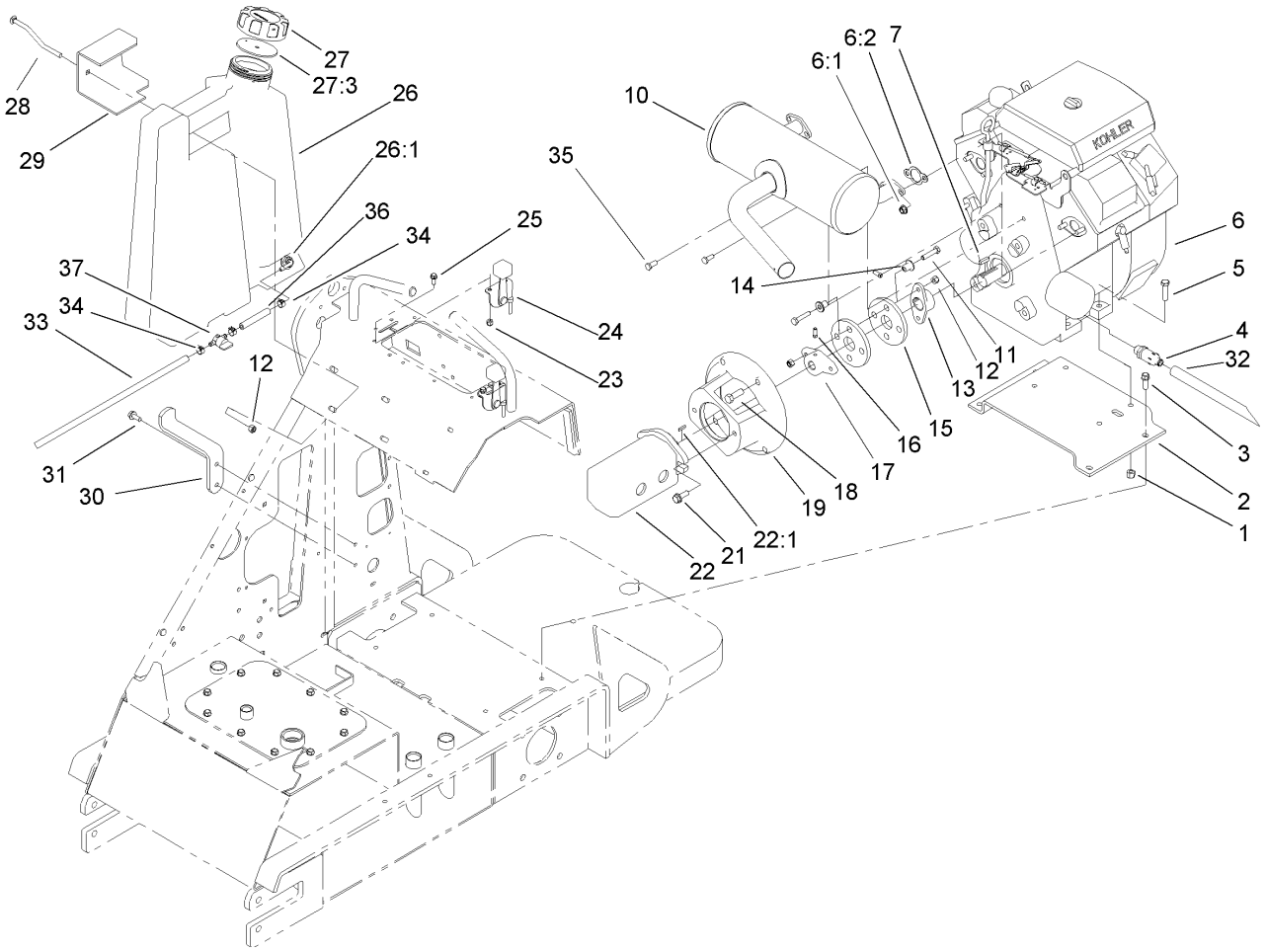

# Rear Wheel Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 242-50 | 10 | Nut-Lug |
| 2 | 100-9990 | 2 | Rear Hub ASM |
| 2:2 | 10-6830 | 5 | Stud-Type, Drive |
| 3 | 98-9937 | 2 | Sprocket - 25t |
| 4 | 3234-27 | 8 | Screw-Flange |
| 5 | 99-3052 | 2 | Hydraulic Motor ASM |
| 6 | 325-7 | 10 | Screw-HH |
| 7 | 3296-23 | 10 | Nut-Lock, NI |
| 8 | 98-2747 | 1 | LH Wheel And Tire ASM |
| 8:1 | 232-27 | 1 | Stem-Valve |
| 8:2 | 98-2748 | 1 | Wheel |
| 8:3 | 98-2749 | 1 | Tire-Loader Style |
| 9 | 26-3790 | 2 | Nut-Lock |
| 10 | 99-1447 | 1 | RH Wheel And Tire ASM |
| 10:1 | 232-27 | 1 | Stem-Valve |
| 10:2 | 98-2748 | 1 | Wheel |
| 10:3 | 98-2749 | 1 | Tire-Loader Style |




# Hydraulic Motor Assembly No. 99-3052

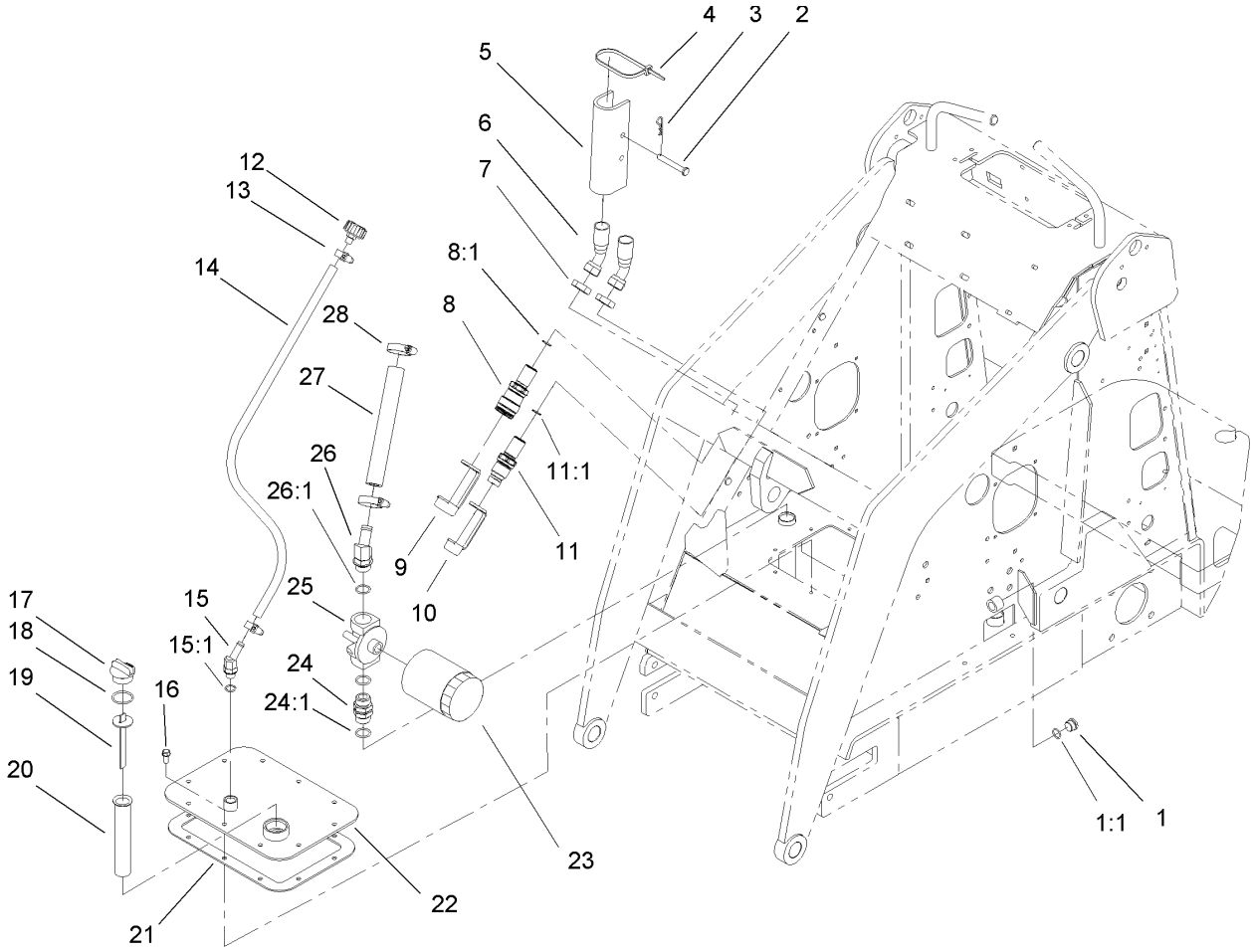
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 94-8178 | 1 | Seal Kit |
| ❷1:1 | | 1 | Seal-Dirt And Water |
| ❷1:2 | | 1 | Washer-Backup |
| ❷1:3 | | 5 | Seal-Ring |
| ❷1:4 | | 1 | Washer-Backup |
| ❷1:5 | | 1 | Seal-Inner |
| ❷1:6 | | 1 | Seal-Commutator |
| 2 | 99-3090 | 1 | Shaft-Coupling |
| 3 | 99-3091 | 7 | Screw-Cap, HH |
| 4 | 3257-42 | 1 | Key-Woodruff |




# Engine Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 3296-39 | 4 | Nut-Lock, NI |
| 2 | 98-4666-03 | 1 | Mount-Engine |
| 3 | 95-1726 | 4 | Screw-Taptite |
| 4 | 92-6877 | 1 | Valve-Drain, Oil |
| 5 | 323-9 | 4 | Screw-HH |
| ❷6 | | 1 | Engine-Kohler Ch20s-64667 |
| 6:1 | 92-6780 | 4 | Nut-HF |
| 6:2 | 93-0350 | 2 | Gasket-Exhaust |
| 7 | 10-7070 | 1 | Key-Square |
| 10 | 105-8381 | 1 | Muffler |
| 11 | 322-7 | 4 | Screw-HH |
| 12 | 3296-29 | 5 | Nut-Lock, NI |
| 13 | 27-1960 | 1 | Hub-Engine |
| 14 | 71-4411 | 4 | Spacer |
| 15 | 44-2230 | 2 | Coupling-Rubber |
| 16 | 3241-6 | 4 | Screw-SQH |
| 17 | 98-4701 | 1 | Hub-Pump |
| 18 | 324-6 | 4 | Screw-HH |
| 19 | 98-2751-03 | 1 | Mount-Pump |
| 21 | 66-9300 | 2 | Screw-HF |
| 22 | 98-4702 | 1 | Pump-Gear, Tandem |
| 22:1 | 98-4700 | 1 | Key-Square |
| ❶22:2 | 99-1353 | 1 | Kit-Seal |
| 23 | 3296-42 | 4 | Nut-Lock, NI |

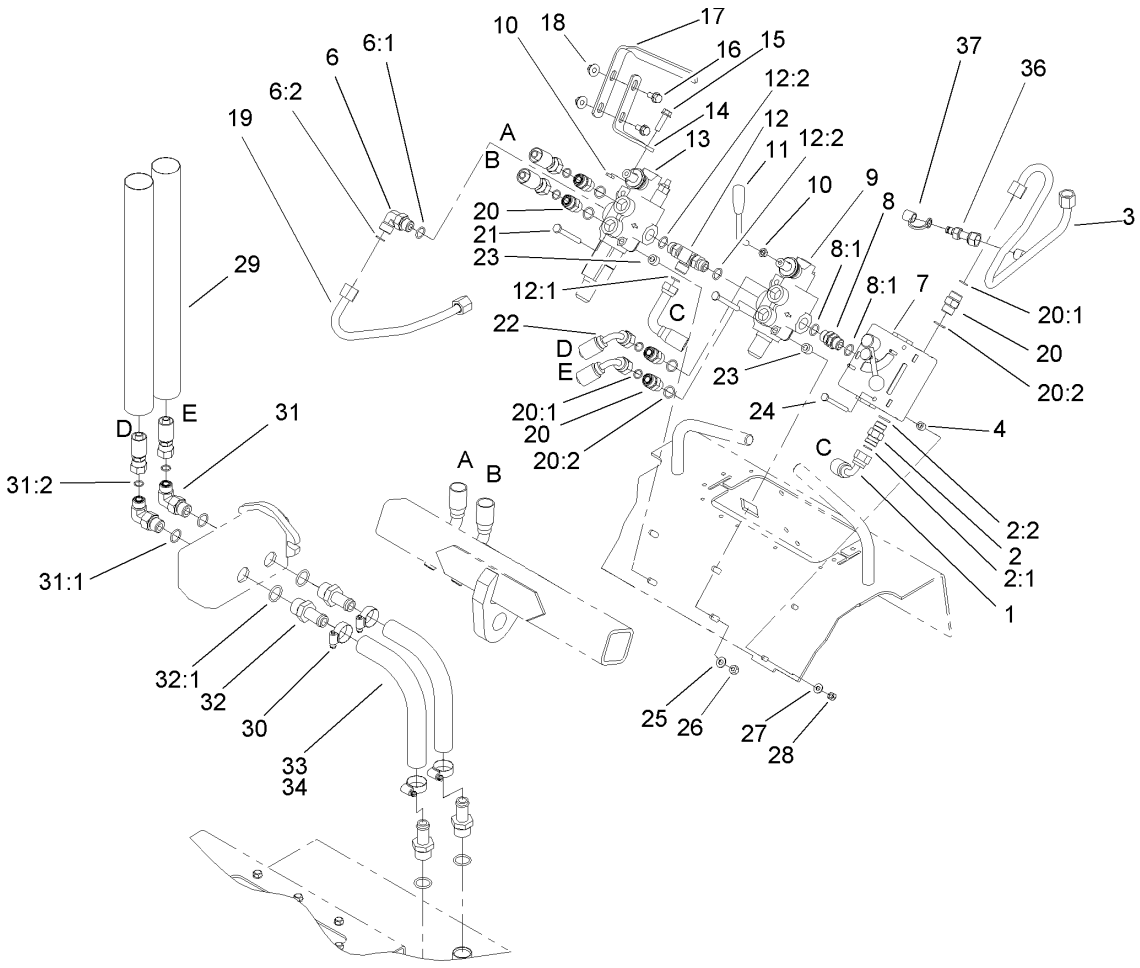
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 24 | 85-9310 | 2 | Control-Choke / Throttle |
| 25 | 3234-33 | 4 | Screw-HHF |
| 26 | 105-8440 | 1 | RH Fuel Tank ASM |
| 26:1 | 103-2605 | 1 | Fitting-Fuel, Bulkhead |
| 27 | 104-7418 | 1 | Cap-Fuel, Gas |
| 27:3 | 104-7420 | 1 | Gasket-Vented |
| 28 | 98-4657 | 1 | Bolt-Mount |
| 29 | 98-4655-03 | 1 | Plate-Mount |
| 30 | 98-4656-03 | 1 | Mount-Bottom, Tank |
| 31 | 32144-70 | 2 | Screw-HH |
| 32 | 98-4667 | 1 | Hose-Drain, Oil |
| 33 | 98-4668 | 1 | Hose-Fuel |
| 34 | 92-2379 | 4 | Clamp-Hose |
| 35 | 33114-020 | 2 | Screw-HH |
| 36 | 99-5101 | 1 | Hose-Fuel |
| 37 | 1-603770 | 1 | Valve-Fuel |




# Hydraulic Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 353-988 | 1 | Plug-Hex, Hollow |
| 1:1 | 237-79 | 1 | O-Ring |
| 2 | 283-52 | 2 | Pin-Clevis |
| 3 | 3290-467 | 2 | Pin-Hair |
| 4 | 3290-379 | 9 | Tie-Cable |
| 5 | 98-4675-01 | 2 | Lock-Cylinder |
| 6 | 100-8817 | 2 | HYD Hose ASM |
| 7 | 340-74 | 2 | Locknut-Bulkhead |
| 8 | 105-8394 | 1 | Bulkhead Coupler ASM |
| 8:1 | 237-65 | 1 | O-Ring |
| ❶8:2 | 105-8396 | 1 | Seal Kit |
| 9 | 100-8816 | 1 | Cap-Dust, Coupler |
| 10 | 100-8815 | 1 | Cap-Dust, Nipple |
| 11 | 105-8395 | 1 | Bulkhead Nipple ASM |
| 11:1 | 237-65 | 1 | O-Ring |
| ❶11:2 | 100-6120 | 1 | Seal Kit |
| 12 | 68-6150 | 1 | Breather |
| 13 | 2412-36 | 2 | Clamp-Hose |
| 14 | 98-2708 | 1 | Hose-Vent |
| 15 | 354-126 | 1 | Fitting-Hyd, 45 DEG |
| 15:1 | 237-79 | 1 | O-Ring |
| 16 | 98-9940 | 10 | Screw |
| 17 | 93-7498 | 1 | Plug-Plastic |
| 18 | 237-123 | 1 | O-Ring |

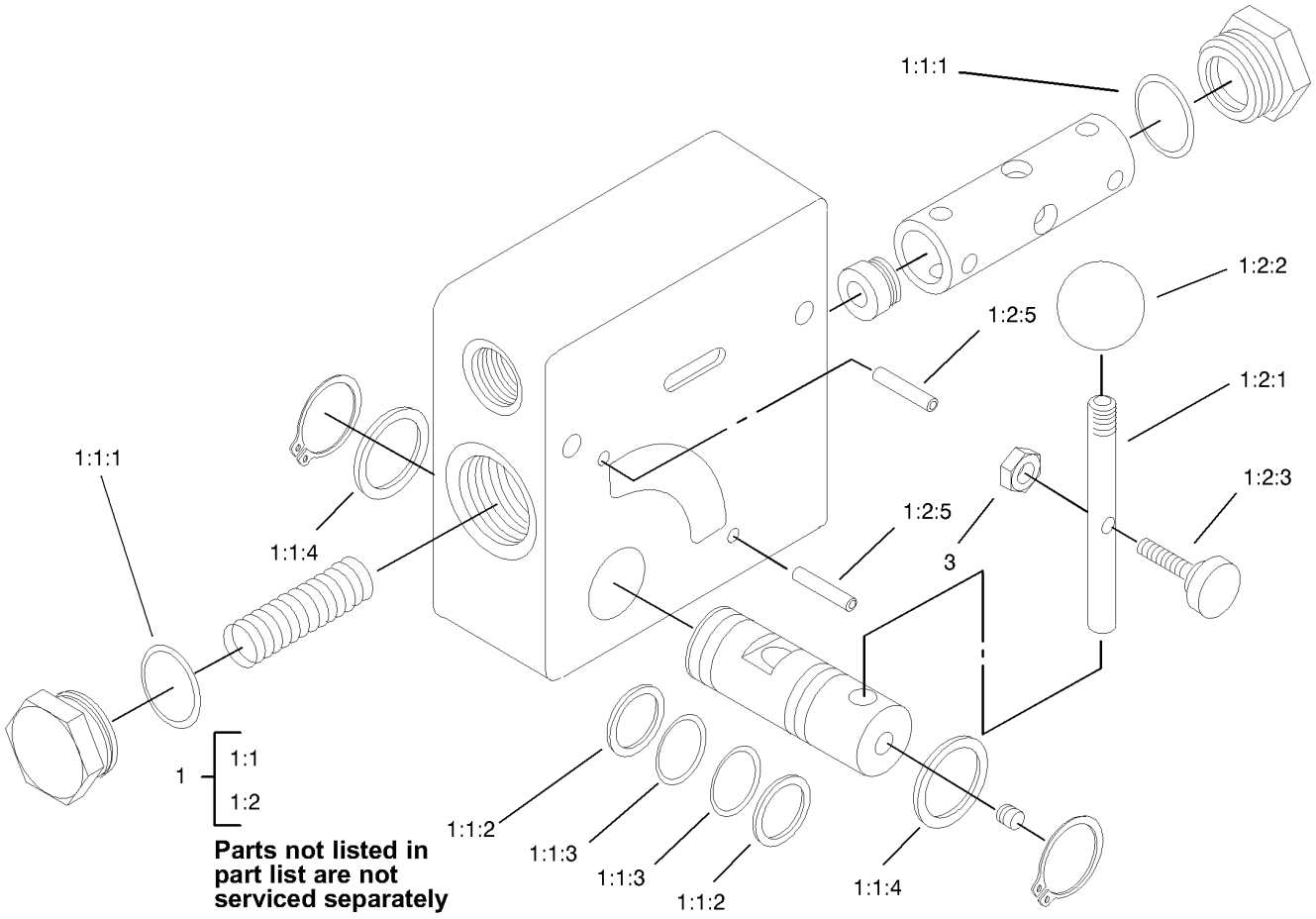
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 19 | 100-2097 | 1 | Dipstick-Oil |
| 20 | 61-2790 | 1 | Filter-Screen |
| 21 | 98-9927 | 1 | Gasket-Cover |
| 22 | 98-2709 | 1 | Cover |
| 23 | 54-0110 | 1 | Filter-Oil, Transmission |
| 24 | 98-9906 | 1 | Fitting-Thread, Straight |
| 24:1 | 237-81 | 2 | O-Ring |
| 25 | 92-5821 | 1 | Filter Head ASM |
| 26 | 354-127 | 1 | Elbow-45 DEG |
| 26:1 | 237-81 | 1 | O-Ring |
| 27 | 100-9988 | 1 | Hose-HYD |
| 28 | 2412-129 | 2 | Clamp-Hose |




# Hydraulic Valve Assembly

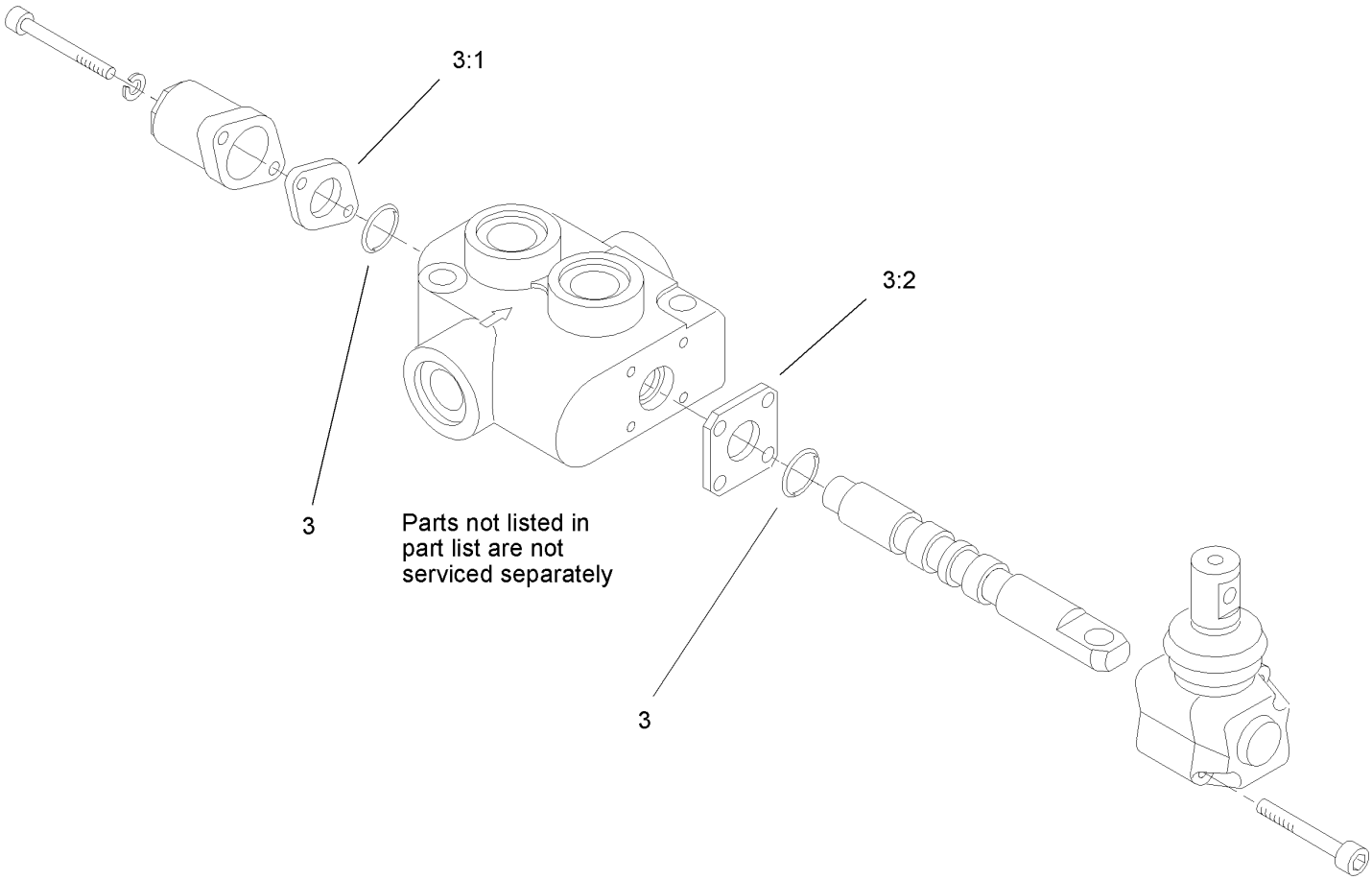
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 98-4744 | 1 | Hose ASM |
| 2 | 98-4735 | 1 | Valve-Check, HYD |
| 2:1 | 237-30 | 1 | O-Ring |
| 2:2 | 237-79 | 1 | O-Ring |
| 3 | 105-7878 | 1 | Tube-Hydraulic |
| 4 | 98-4799 | 2 | Tube-Spacer |
| 6 | 340-98 | 2 | Fitting-Hyd, 90 DEG |
| 6:1 | 237-79 | 1 | O-Ring |
| 6:2 | 237-30 | 1 | O-Ring |
| 7 | 104-4221 | 1 | Kit-Valve, HYD |
| 8 | 95-3209 | 1 | Fitting-Thread, Straight |
| 8:1 | 237-79 | 2 | O-Ring |
| 9 | 99-3072 | 1 | Valve-Selector |
| 10 | 42-9580 | 2 | Nut-Hex |
| 11 | 98-4729 | 1 | Lever-Valve |
| 12 | 98-9079 | 1 | Adapter-Tee, Adjustable |
| 12:1 | 237-30 | 1 | O-Ring |
| 12:2 | 237-79 | 2 | O-Ring |
| 13 | 99-3077 | 1 | Valve-Hyd, Auxiliary |
| 14 | 99-1376 | 1 | Mount-Control |
| 15 | 33104-030 | 1 | Screw-HHF |
| 16 | 3234-5 | 2 | Screw |
| 17 | 98-9090 | 1 | Grip-Control |
| 18 | 32128-44 | 2 | Nut |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 19 | 105-7879 | 1 | Tube-Hydraulic |
| 20 | 340-4 | 5 | Fitting-Hyd, Sraight |
| 20:1 | 237-30 | 1 | O-Ring |
| 20:2 | 237-79 | 1 | O-Ring |
| 21 | 322-13 | 4 | Screw-HH |
| 22 | 98-4747 | 2 | HYD Hose ASM |
| 23 | 98-4695 | 4 | Spacer |
| 24 | 321-14 | 2 | Screw-HH |
| 25 | 3256-23 | 4 | Washer-Flat |
| 26 | 3296-29 | 4 | Nut-Lock, NI |
| 27 | 3256-22 | 2 | Washer-Flat |
| 28 | 3296-42 | 2 | Nut-Lock, NI |
| 29 | 100-8818 | 2 | Sleeve-Guard, Hose |
| 30 | 2412-129 | 4 | Clamp-Hose |
| 31 | 340-105 | 2 | Fitting-Hyd, 90 DEG |
| 31:1 | 237-80 | 1 | O-Ring |
| 31:2 | 237-30 | 1 | O-Ring |
| 32 | 354-73 | 4 | Fitting |
| 32:1 | 237-81 | 1 | O-Ring |
| 33 | 98-2713 | 2 | Hose-Suction, HYD |
| ❶34 | 99-5349 | 2 | Spring-Compression |
| 36 | 86-5480 | 1 | Nipple-Test |
| 37 | 354-79 | 1 | Cap-Dust |



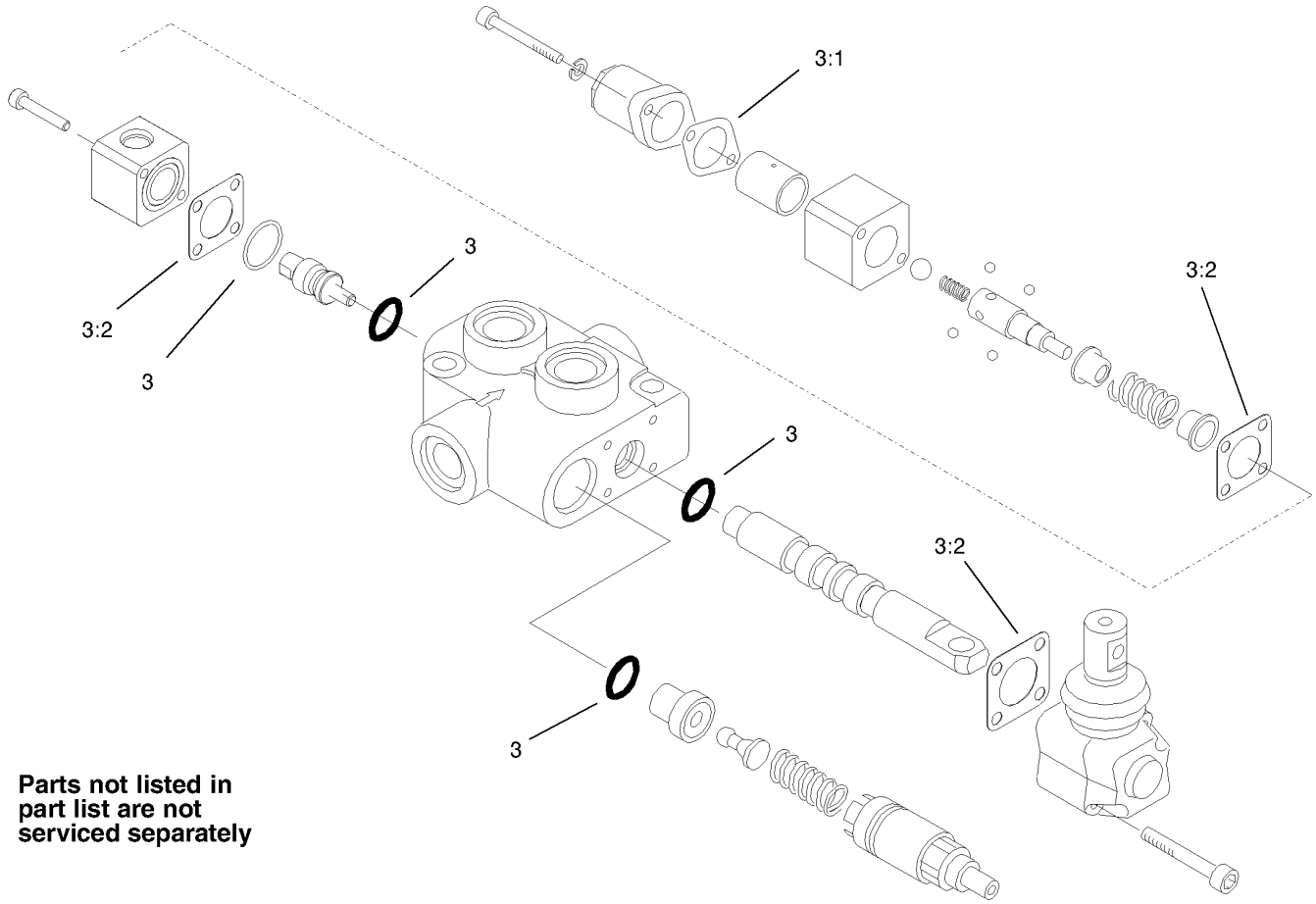

# Hydraulic Valve Assembly No. 104-4221

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❷1 | | 1 | Valve-Flow, Hydraulic |
| 1:1 | 104-4231 | 1 | Seal Kit |
| ❷1:1:1 | | 2 | O-Ring |
| ❷1:1:2 | | 2 | Back-Up |
| ❷1:1:3 | | 2 | O-Ring |
| ❷1:1:4 | | 2 | Quad Ring |
| 1:2 | 98-9098 | 1 | Handle Hardware Kit |
| ❷1:2:1 | | 1 | Handle |
| ❷1:2:2 | | 1 | Knob |
| ❷1:2:3 | | 1 | Screw-Thumb |
| ❷1:2:5 | | 2 | Pin-Roll |
| 3 | 3296-27 | 1 | Nut-Lock NI |




# Hydraulic Selector Valve Assembly No. 99-3072

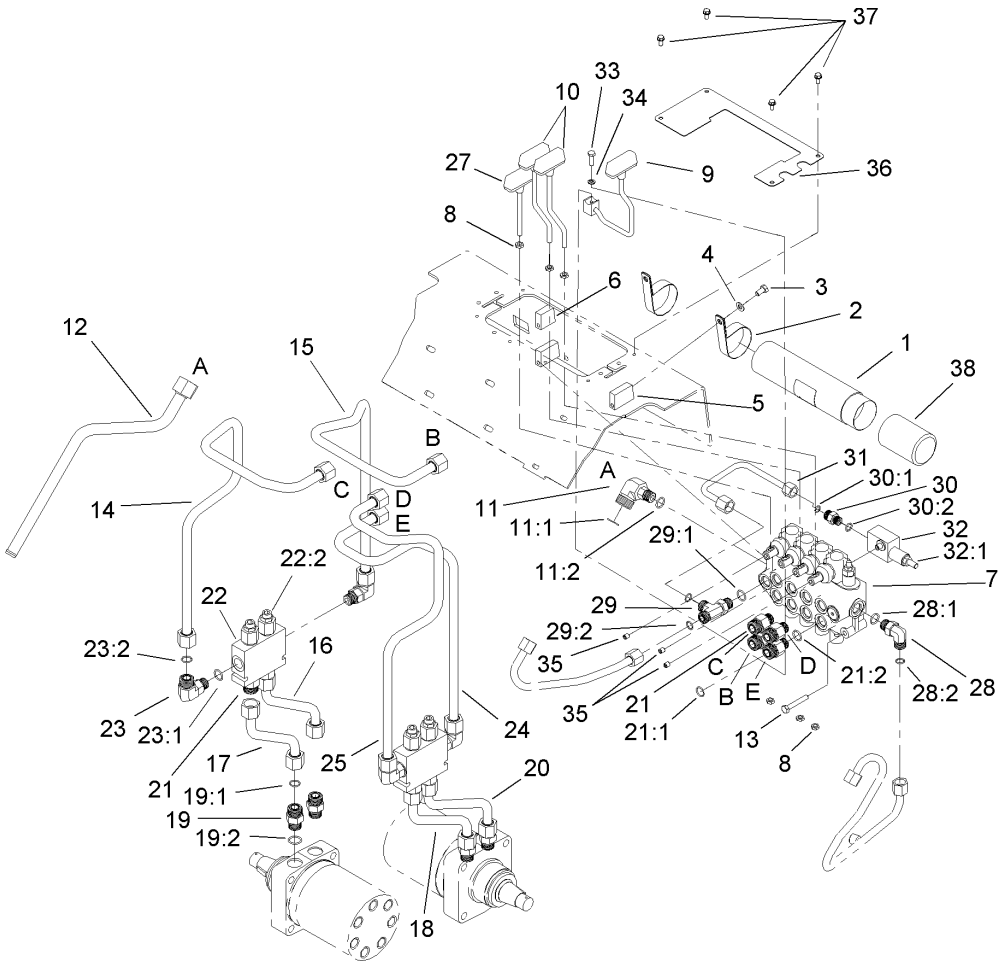
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 3 | 99-4391 | 1 | Seal Kit |
| 3:1 | 99-3074 | 1 | Gasket |
| 3:2 | 99-3075 | 3 | Gasket |




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

# Hydraulic Valve Assembly No. 99-3077

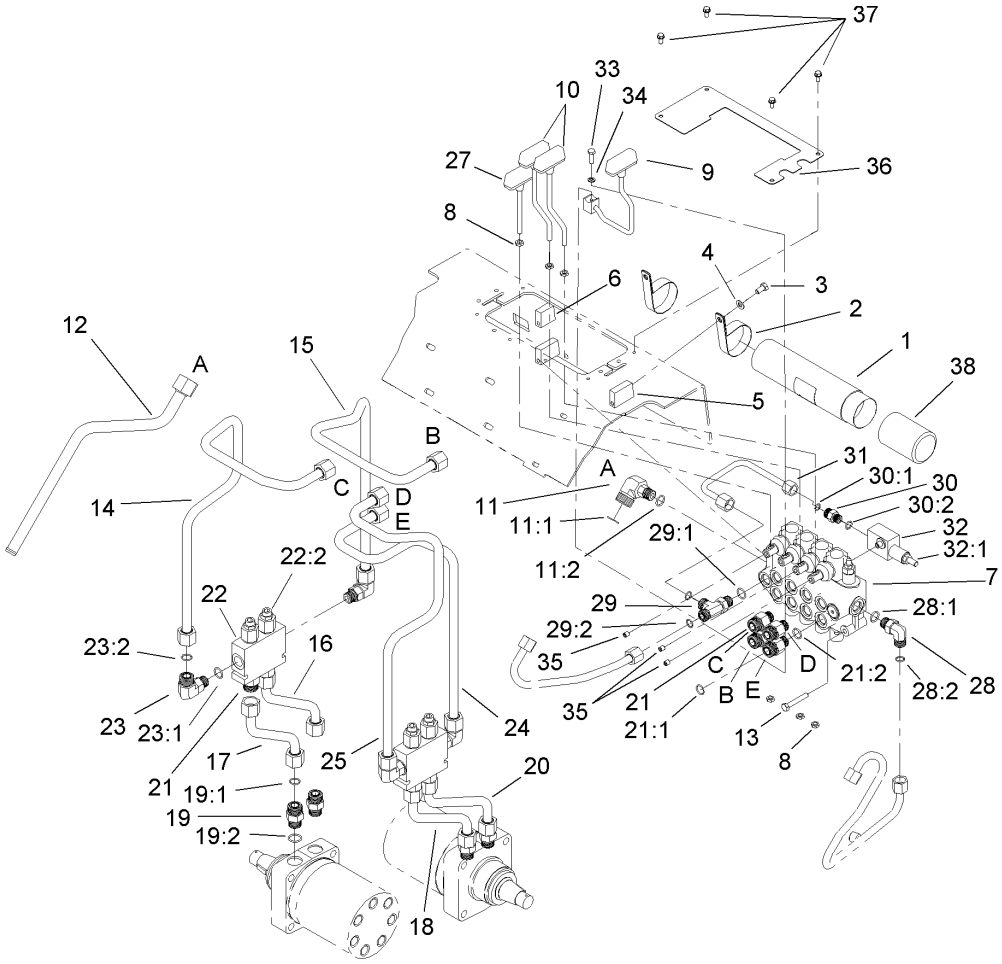
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 3 | 99-4391 | 1 | Seal Kit |
| 3:1 | 99-3074 | 1 | Gasket |
| 3:2 | 99-3075 | 3 | Gasket |




# Hydraulic Traction Assembly

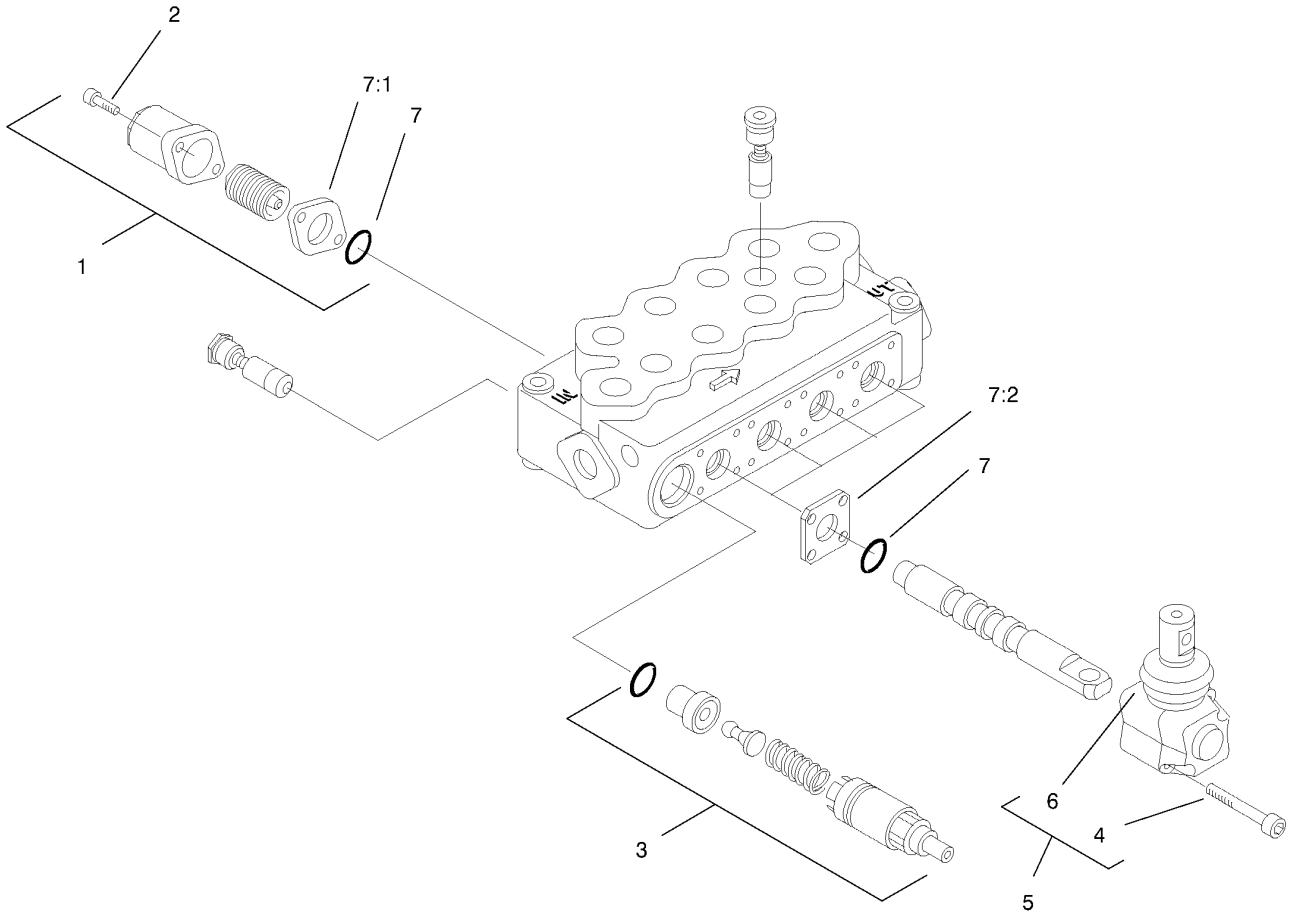
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 104-7050 | 1 | Housing-Manual |
| 2 | 2412-133 | 2 | R-Clamp |
| 3 | 322-2 | 3 | Screw-HH |
| 4 | 3256-23 | 3 | Washer-Flat |
| 5 | 105-7871 | 2 | Spacer-Lower |
| 6 | 105-7870 | 1 | Spacer-Upper |
| 7 | 105-6246 | 1 | Valve-Four Spool, W/ Relief Port |
| 8 | 42-9580 | 6 | Nut-Hex |
| 9 | 105-7869 | 1 | Lever-Control |
| 10 | 104-5733 | 2 | Drive Lever ASM |
| 11 | 92-5696 | 1 | Fitting-Hyd, 90 DEG |
| 11:1 | 237-58 | 1 | O-Ring |
| 11:2 | 237-79 | 1 | O-Ring |
| 12 | 105-7880 | 1 | Line-Tank , HYD |
| 13 | 322-10 | 3 | Screw-HH |
| 14 | 105-7877 | 1 | Line-Hyd, Right B |
| 15 | 105-7876 | 1 | Line-Hyd, Right A |
| 16 | 98-4740 | 1 | Tube-HYD |
| 17 | 98-4741 | 1 | Tube-HYD |
| 18 | 98-4743 | 1 | Tube-HYD |
| 19 | 340-7 | 4 | Adapter |
| 19:1 | 237-65 | 1 | O-Ring |
| 19:2 | 237-80 | 1 | O-Ring |
| 20 | 98-4742 | 1 | Tube-HYD |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 21 | 340-155 | 8 | Fitting-Hyd, Straight |
| 21:1 | 237-79 | 1 | O-Ring |
| 21:2 | 237-151 | 1 | O-Ring |
| 22 | 98-9050 | 2 | Valve-Counterbalance |
| ❶22:1 | 105-4099 | 1 | Seal Kit |
| 22:2 | 99-3271 | 2 | Valve-Cartridge |
| ❶22:2:1 | 105-4099 | 1 | Seal Kit |
| 23 | 340-153 | 4 | Fitting-HYD |
| 23:1 | 237-79 | 1 | O-Ring |
| 23:2 | 237-151 | 1 | O-Ring |
| 24 | 105-7875 | 1 | Line-Hyd, Left A |
| 25 | 105-7874 | 1 | Line-Hyd, Left B |
| 27 | 105-7881 | 1 | Cylinder Lever ASM |
| 28 | 340-98 | 1 | Fitting-Hyd, 90 DEG |
| 28:1 | 237-79 | 1 | O-Ring |
| 28:2 | 237-30 | 1 | O-Ring |
| 29 | 340-109 | 1 | Fitting-Hyd, Tee |
| 29:1 | 237-79 | 1 | O-Ring |
| 29:2 | 237-30 | 2 | O-Ring |
| 30 | 340-2 | 1 | Fitting-Hyd, Straight |
| 30:1 | 237-22 | 1 | O-Ring |
| 30:2 | 237-42 | 1 | O-Ring |
| 31 | 105-7866 | 1 | Line-HYD |
| 32 | 105-7882 | 1 | Relief Valve ASM |



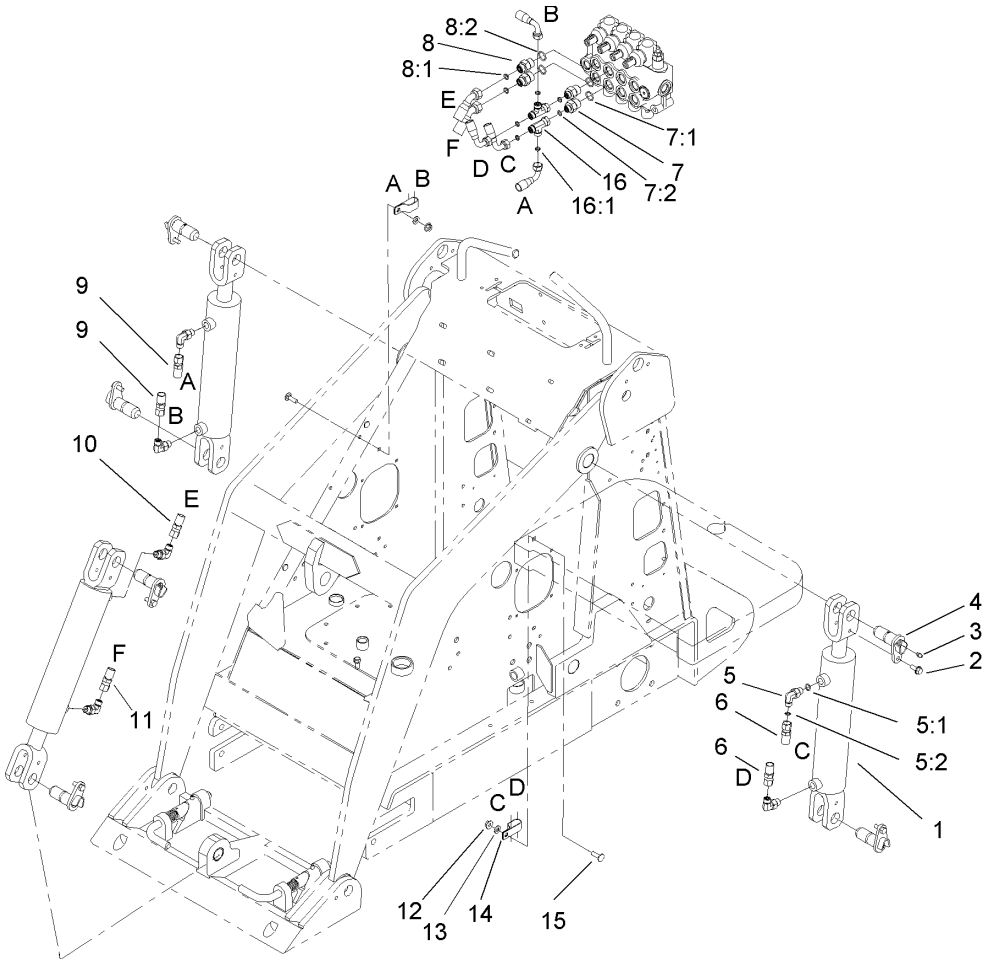

# Hydraulic Traction Assembly (continued)

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 32:1 | 105-8358 | 1 | Relief Valve Cartridge |
| ❶32:2 | 105-8357 | 1 | Seal Kit |
| 33 | 321-5 | 1 | Screw-HH |
| 34 | 3253-3 | 1 | Washer-Lock |
| 35 | 105-4068 | 3 | Screw-Set, HS |
| 36 | 105-8352-03 | 1 | Plate-Cover |
| 37 | 32144-4 | 4 | Screw-HWH |
| 38 | 104-7048 | 1 | Cap-Housing |



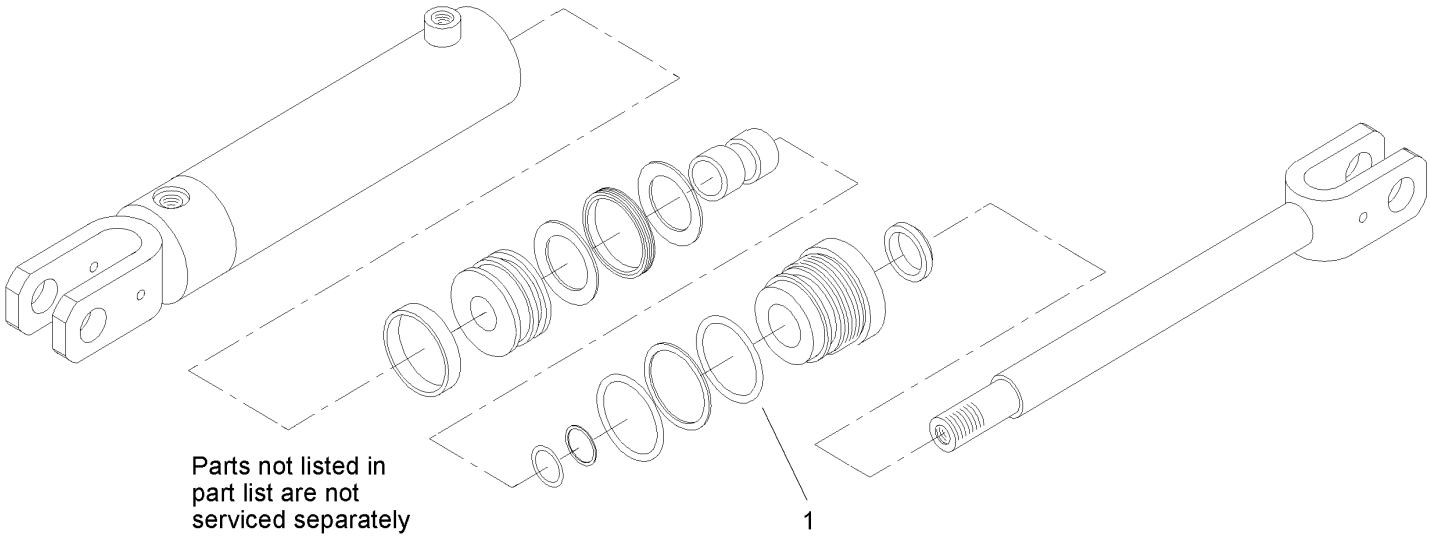

# Hydraulic Valve Assembly No. 105-6246

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 100-8801 | 4 | Kit-Spring, High Force |
| 1 | 100-8800 | 4 | Standard Spring ASM |
| 2 | 100-8802 | 8 | Screw-Cap, End |
| 3 | 100-8805 | 1 | Valve-Relief |
| 4 | 100-8806 | 8 | Screw |
| 5 | 100-8807 | 4 | Operator ASM |
| 6 | 100-8829 | 4 | Boot |
| 7 | 99-4390 | 1 | Seal Kit |
| 7:1 | 99-3074 | 4 | Gasket |
| 7:2 | 99-3075 | 8 | Gasket |



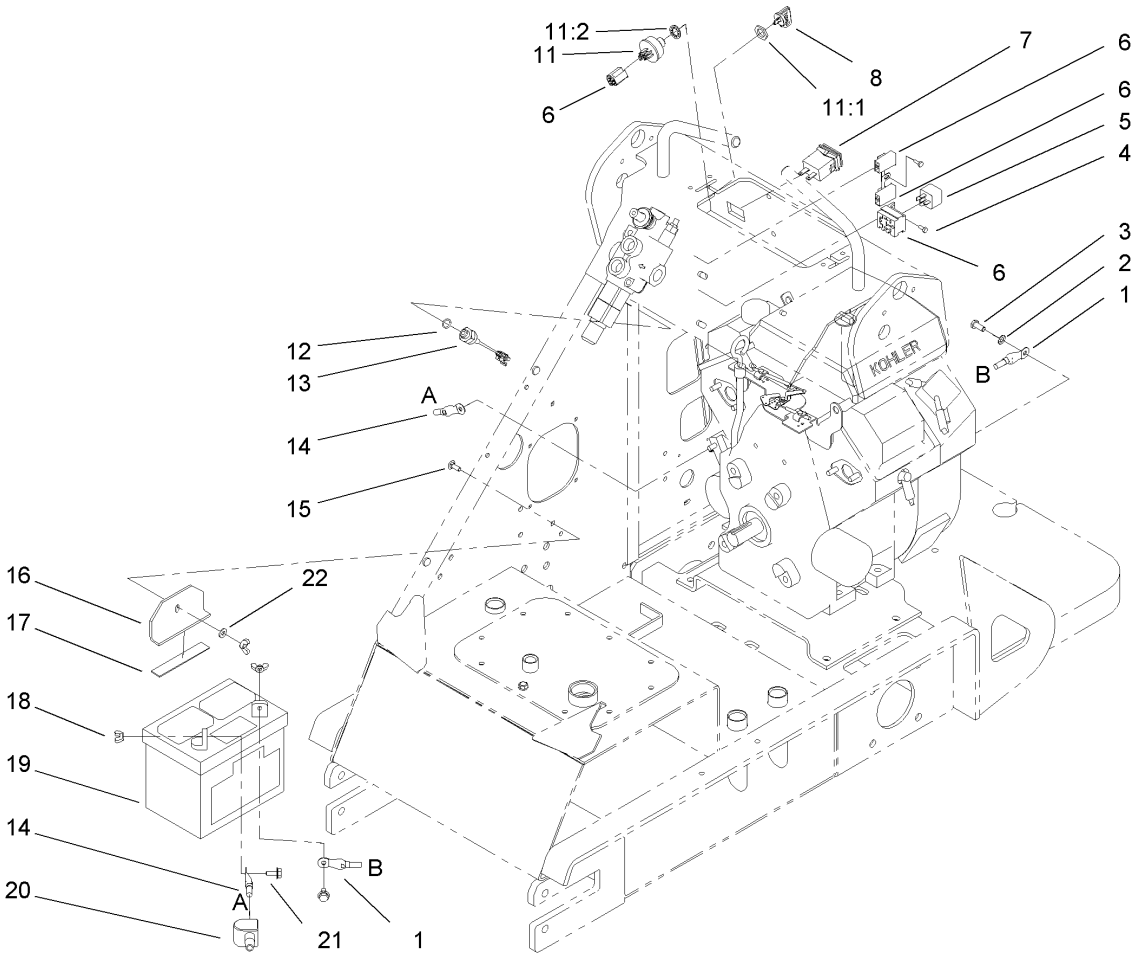

# Hydraulic Cylinder Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-7867 | 3 | Cylinder-Hydraulic |
| 2 | 99-5105 | 6 | Bolt-Shoulder |
| 3 | 302-5 | 6 | Fitting-Grease |
| 4 | 99-1414 | 6 | Pin-Pivot |
| 5 | 340-82 | 6 | Adapter |
| 5:1 | 237-42 | 1 | O-Ring |
| 5:2 | 237-21 | 1 | O-Ring |
| 6 | 98-4748 | 2 | HYD Hose ASM |
| 7 | 340-133 | 2 | Adapter |
| 7:1 | 237-79 | 1 | O-Ring |
| 7:2 | 237-21 | 1 | O-Ring |
| 8 | 340-3 | 2 | Adapter |
| 8:1 | 237-22 | 1 | O-Ring |
| 8:2 | 237-79 | 1 | O-Ring |
| 9 | 98-4725 | 2 | HYD Hose ASM |
| 10 | 98-4727 | 1 | Hose-HYD |
| 11 | 98-4726 | 1 | Hose-HYD |
| 12 | 3296-29 | 2 | Nut-Lock, NI |
| 13 | 3256-23 | 2 | Washer-Flat |
| 14 | 2412-137 | 2 | Clamp-Tube |
| 15 | 3230-2 | 2 | Bolt-CARR |
| 16 | 340-151 | 2 | Fitting |
| 16:1 | 237-21 | 3 | O-Ring |



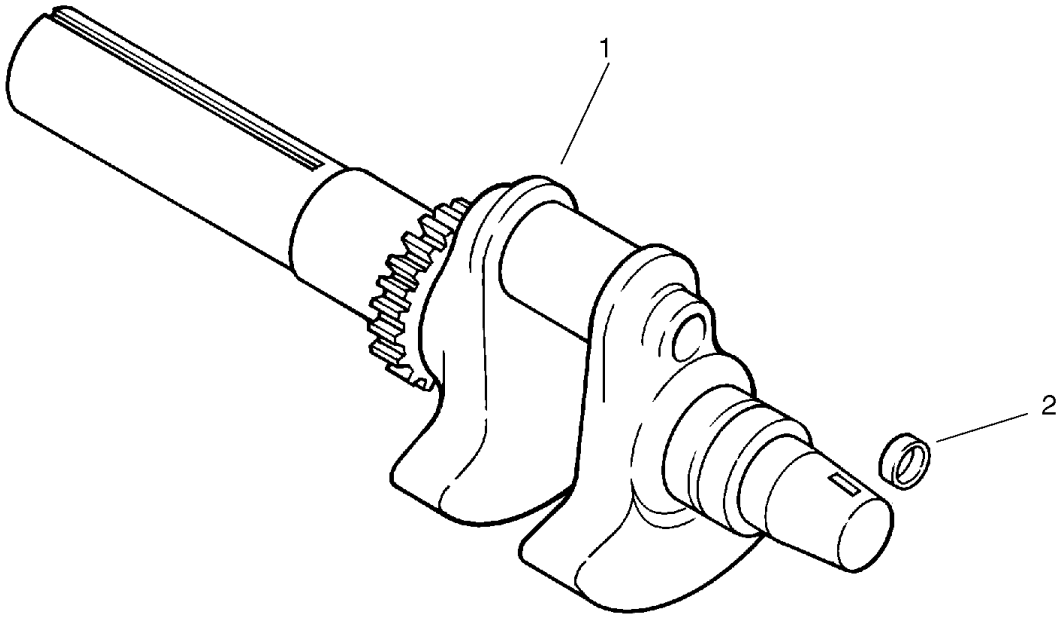

# Hydraulic Cylinder Assembly No. 105-7867

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 105-8356 | 1 | Seal Kit-Cylinder, HYD |



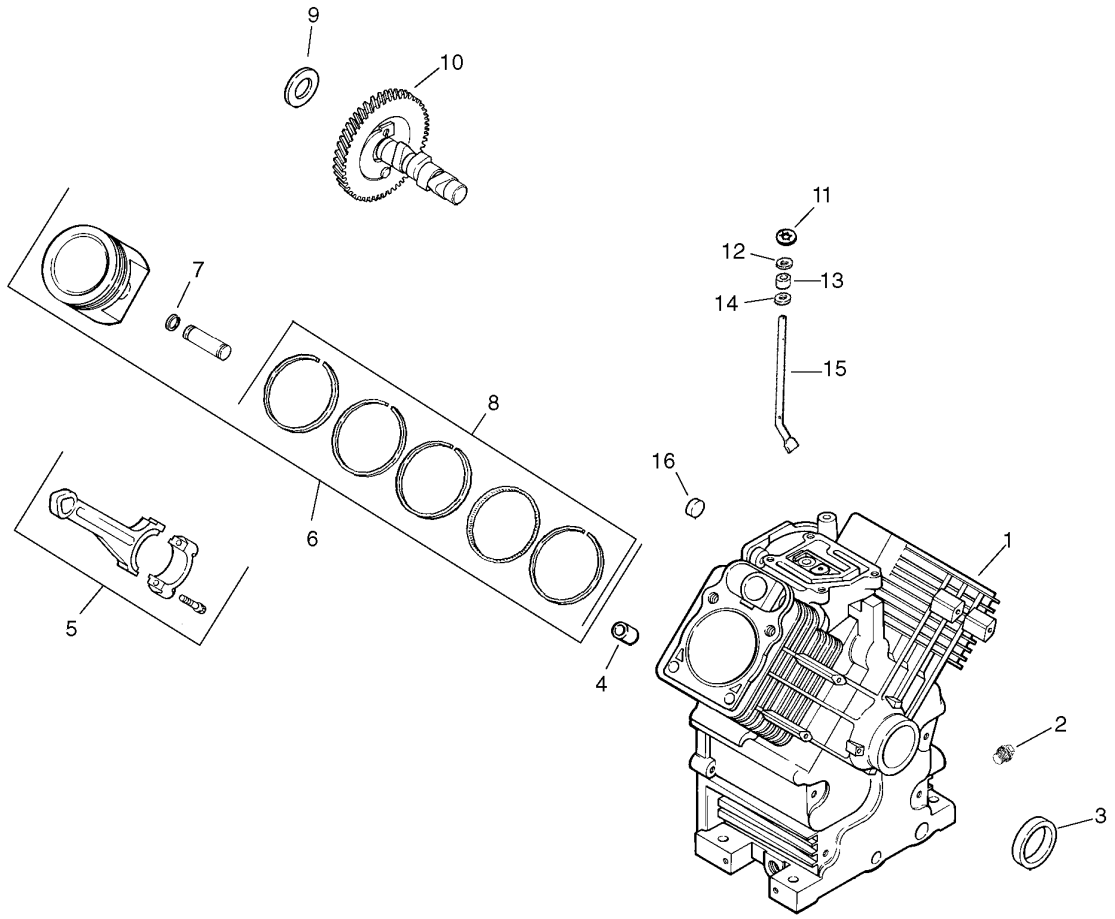

# Electrical Assembly

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 111074 | 1 | Cable-Black |
| 2 | 3255-8 | 1 | Washer-Lock |
| 3 | 33114-020 | 1 | Screw-HH |
| 4 | 32144-87 | 2 | Screw-Forming, Thread |
| 5 | 98-7249 | 1 | Relay |
| 6 | 98-4650 | 1 | Harness-Electrical |
| 7 | 94-4208 | 1 | Hourmeter |
| 8 | 63-8360 | 2 | Key-Ignition |
| 11 | 116338 | 1 | Key Switch ASM |
| 11:1 | 101884 | 1 | Nut |
| 11:2 | 9201604 | 1 | Washer-Lock, Internal |
| 12 | 237-42 | 1 | O-Ring |
| 13 | 72-4310 | 1 | Switch-Ball |
| 14 | 92-6989 | 1 | Wire |
| 15 | 3229-2 | 1 | Screw-CARR |
| 16 | 105-8401-03 | 1 | Clamp-Battery |
| 17 | 94-9566 | 1 | Pad-Footrest |
| 18 | 32103-22 | 3 | Nut-Wing |
| 19 | 104-2492 | 1 | Battery |
| 20 | 77-0981 | 1 | Boot-Terminal, Red |
| 21 | 3234-4 | 2 | Screw-HHF |
| 22 | 3256-22 | 1 | Washer-Flat |




# Group 1-Crankshaft Assembly
# Kohler CH20S-64667

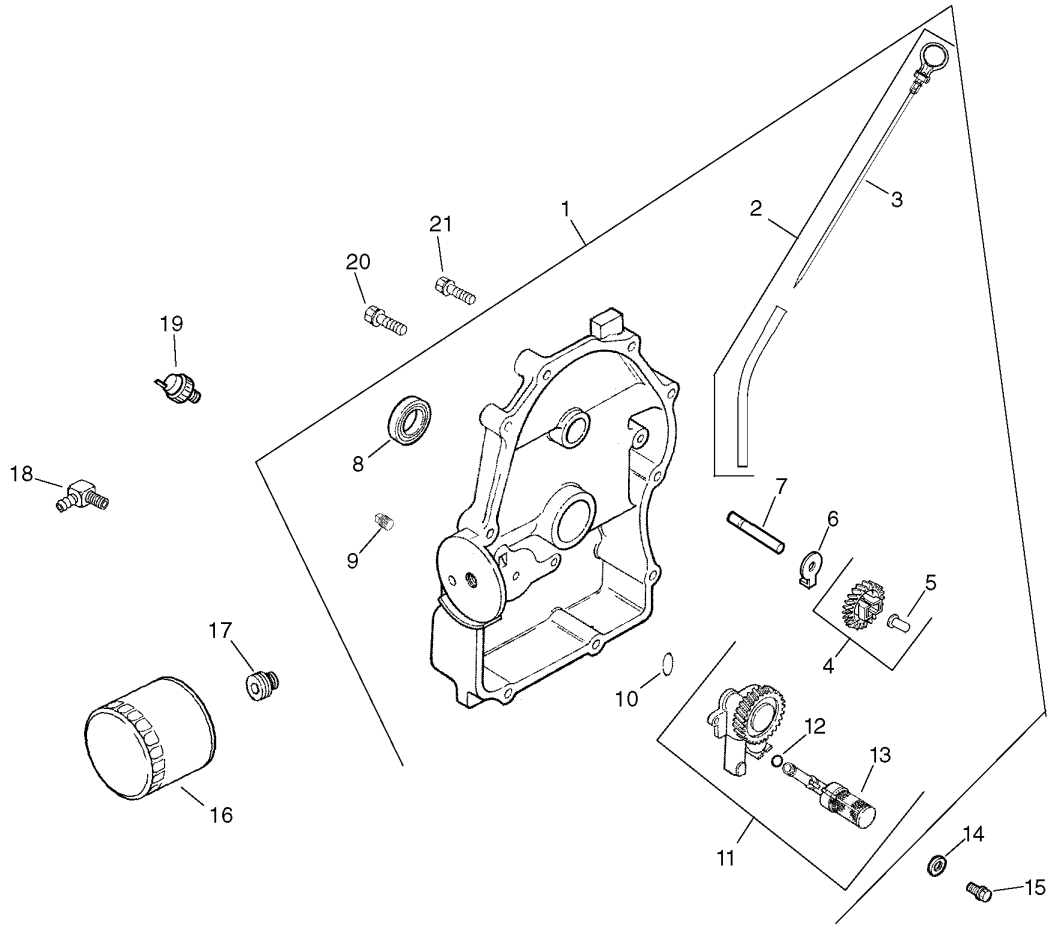
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 24 014 90-S | 1 | Crankshaft ASM (Includes 2) |
| ❸2 | 52 139 09-S | 1 | Plug-Cup |




# Group 2-Crankcase Assembly
# Kohler CH20S-64667

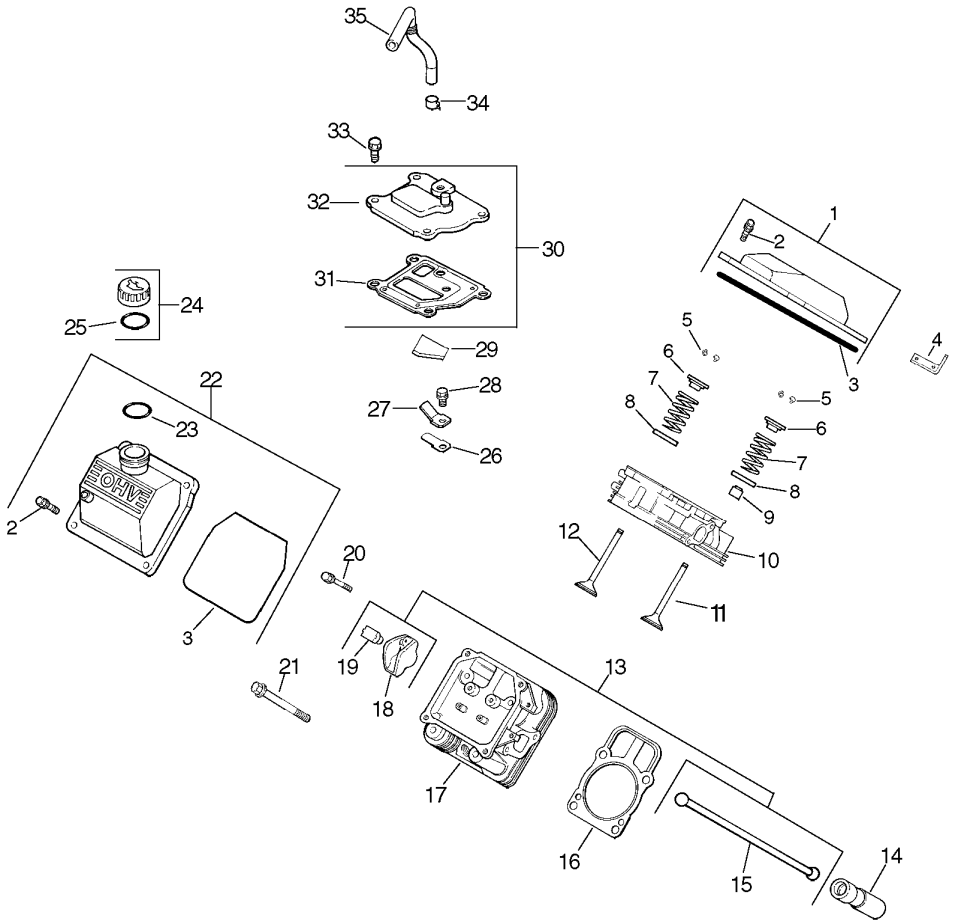
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | | 1 | Crankcase(Use: Miniblock 24 782 15) |
| ❸2 | 52 139 02-S | 2 | Plug, Pipe |
| ❸3 | 24 032 01-S | 1 | Seal-Oil |
| ❸4 | 24 380 13-S | 6 | Pin-Locating |
| ❸5 | 24 067 13-S | 2 | Rod-Connecting (Std) |
| ❸ | 24 067 14-S | 2 | Rod-Connecting (.25 |
| ❸6 | 24 874 17-S | 2 | Piston W/ring Set(Std.)(Includes 7, 8) |
| ❸ | 24 874 18-S | 2 | Set-Piston W/ring(.25) |
| ❸ | 24 874 19-S | 2 | Set-Piston W/ring(.50) |
| ❸ | 24 874 14-S | 2 | Piston W/ring (.08) |
| ❸7 | 24 018 01-S | 4 | Retainer-Piston Pin |
| ❸8 | 24 108 11-S | 2 | Ring Set (Std.) |
| ❸ | 24 108 12-S | 2 | Ring Set (.25) |
| ❸ | 24 108 13-S | 2 | Set-Ring (.50) |
| ❸9 | 12 422 09-S | 0 | Shim-Camshaft |
| ❸ | 12 422 13-S | 0 | Shim-Camshaft |
| ❸ | 12 422 07-S | 0 | Shim-Camshaft |
| ❸ | 12 422 08-S | 0 | Shim-Camshaft |
| ❸ | 12 422 10-S | 1 | Shim-Camshaft |
| ❸ | 12 422 11-S | 0 | Shim-Camshaft |
| ❸ | 12 422 12-S | 0 | Shim-Camshaft |
| ❸10 | 24 012 10-S | 1 | Camshaft |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸11 | 24 018 09-S | 1 | Retainer-Ring |
| ❸12 | M-931010-S | 1 | Washer-Flat |
| ❸13 | 28 032 09-S | 1 | Seal-Governor Cross |
| ❸14 | 24 468 15-S | 1 | Washer |
| ❸15 | 24 144 33-S | 1 | Shaft-Governor Shaft |
| ❸16 | 52 139 09-S | 1 | Plug-Cup |




# Group 3-Oil Pan/Lubrication Assembly
# Kohler CH20S-64667

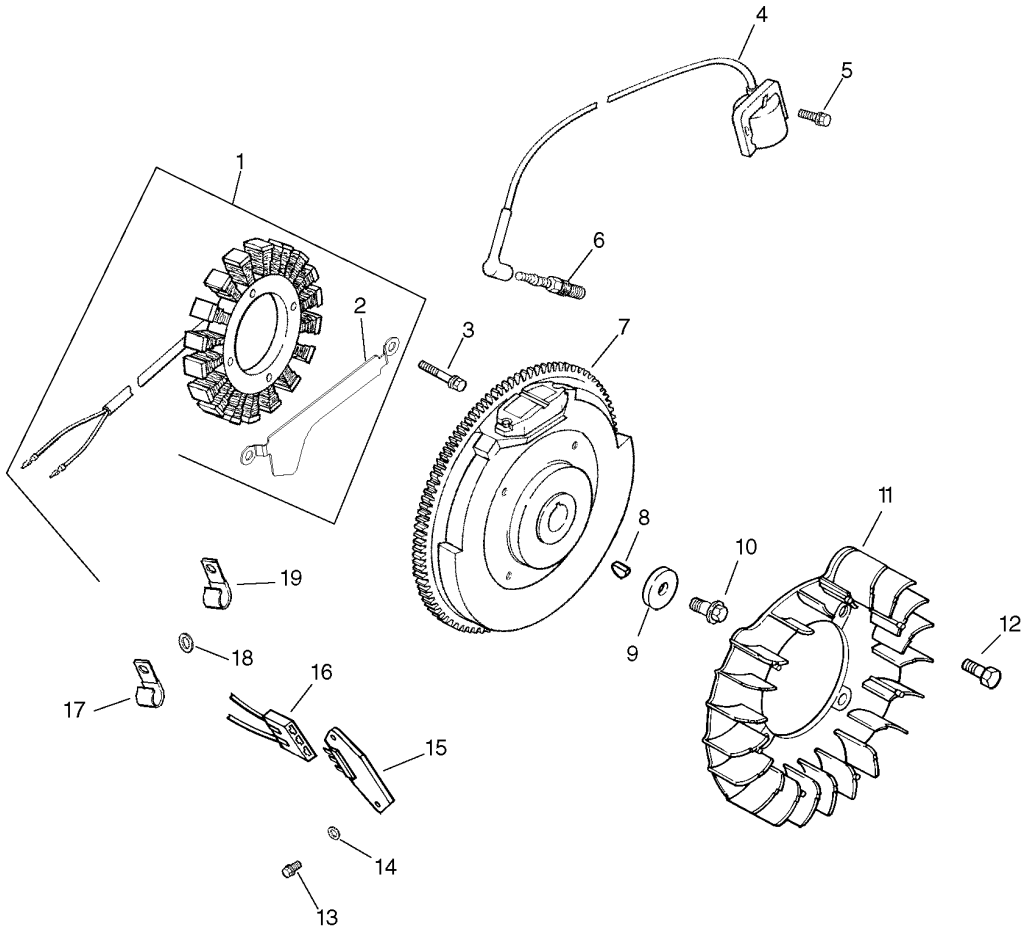
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 24 009 82-S | 1 | Kit, Closure Plate (Includes 2-13) |
| ❸2 | 24 755 121-S | 1 | Kit, Dipstick & Tube (Includes 3) |
| ❸3 | 24 038 10-S | 1 | Dipstick |
| ❸4 | 24 043 12-S | 1 | Kit, Governor Gearw/pin (Includes 5) |
| ❸5 | 12 380 01-S | 1 | Pin, Gvrn. Regulating |
| ❸6 | 52 448 02-S | 1 | Tab-Locking |
| ❸7 | 12 144 02-S | 1 | Shaft-Governor Gear |
| ❸8 | 52 032 08-S | 1 | Seal-Oil |
| ❸9 | 25 139 60-S | 2 | Plug-Allen Head |
| ❸10 | 24 153 08-S | 1 | O-Ring |
| ❸11 | 24 393 10-S | 1 | Oil Pump Assembly (Includes 12, 13) |
| ❸12 | 24 153 01-S | 1 | "o"ring |
| ❸13 | 24 381 04-S | 1 | Pick-Up-Oil |
| ❸14 | M-631005-S | 2 | Washer-Flat |
| ❸15 | M-645025-S | 2 | Screw-HF |
| ❸16 | 52 050 02-S | 1 | Filter-Oil |
| ❸17 | 24 136 01-S | 1 | Nipple,oil Filter |
| ❸18 | 25 155 02-S | 1 | Connector |
| ❸19 | 24 099 03-S | 1 | Switch-Pressure |
| ❸20 | 24 086 16-S | 9 | Screw |
| ❸21 | 24 086 17-S | 1 | Screw-HF |




# Group 4-Head/Valve/Breather Assembly Kohler CH20S-64667

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 24 755 74-S | 1 | Kit, Valve Cover-Plain (Includes 2, 3) |
| ❸2 | 24 086 32-S | 4 | Screw-Shoulder |
| ❸3 | 24 153 16-S | 1 | O-Ring |
| ❸4 | 24 445 01-S | 1 | Strap-Lifting |
| ❸5 | 12 755 03-S | 4 | Kit-Retainer |
| ❸6 | 12 173 01-S | 4 | Cap-Valve Spring |
| ❸7 | 24 089 02-S | 4 | Spring-Valve |
| ❸8 | 235011-S | 4 | Retainer-Spring |
| ❸9 | 66 032 05-S | 2 | Seal-Valve Stem |
| ❸10 | 24 318 09-S | 1 | #1 Cylinder Head ASM |
| ❸11 | 24 017 01-S | 2 | Valve-Intake (Std) |
| ❸ | 24 017 02-S | 2 | Valve-Intake (.25) |
| ❸12 | 24 016 01-S | 2 | Valve-Exhaust (Std) |
| ❸ | 24 016 02-S | 2 | Valve-Exhaust (.25) |
| ❸13 | 24 755 66-S | 1 | Kit, Valve Train (Includes 15, 18, 19) |
| ❸14 | 25 351 01-S | 4 | Lifter-Valve |
| ❸15 | 24 411 05-S | 4 | Rod-Push |
| ❸16 | 24 041 08-S | 2 | Gasket-Cylinder Head |
| ❸17 | 24 318 10-S | 1 | #2 Cylinder Head ASM |
| ❸18 | 25 186 01-S | 4 | Arm-Rocker |
| ❸19 | 24 599 01-S | 4 | Pivot-Rocker Arm |
| ❸20 | M-640034-S | 4 | Screw-HF |

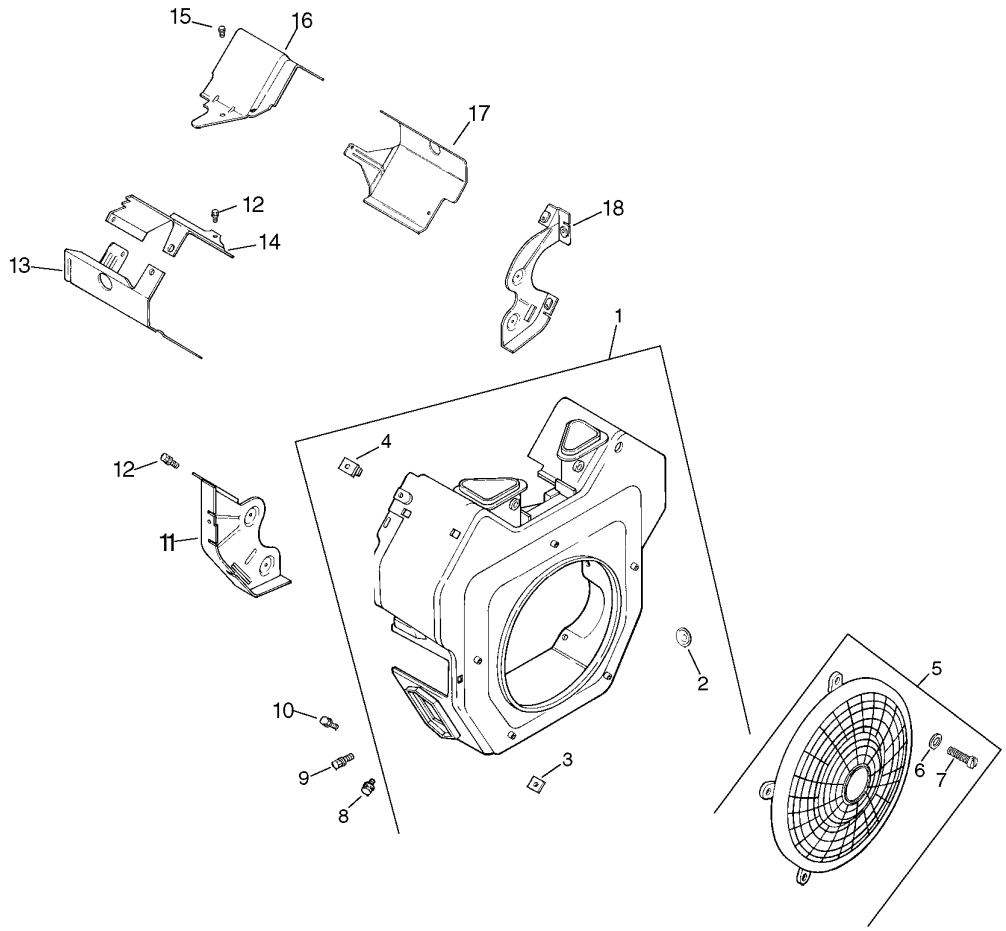
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸21 | 12 086 16-S | 8 | Screw |
| ❸22 | 24 755 75-S | 1 | Kit, Valve Cover-Oil Fill (Includes 2, 3, 23) |
| ❸23 | 24 153 09-S | 1 | O-Ring |
| ❸24 | 24 755 46-S | 1 | Kit, Oil Fill Cap (Includes 25) |
| ❸25 | 12 153 03-S | 1 | O-Ring |
| ❸26 | 24 402 03-S | 1 | Reed |
| ❸27 | 12 018 01-S | 1 | Retainer-Reed |
| ❸28 | M-545010-S | 1 | Nut-HF |
| ❸29 | 24 050 01-S | 1 | Filter-Breather |
| ❸30 | 24 033 01-S | 1 | Kit, Breather (Includes 31, 32) |
| ❸31 | 24 041 23-S | 1 | Gasket-Breather |
| ❸32 | 24 096 58-S | 1 | Cover-Breather |
| ❸33 | M-645020-S | 4 | Screw-HF |
| ❸34 | 25 237 14-S | 1 | Clamp-Hose |
| ❸35 | 24 326 26-S | 1 | Hose-Breather |




# Group 5-Ignition/Electrical Assembly
# Kohler CH20S-64667

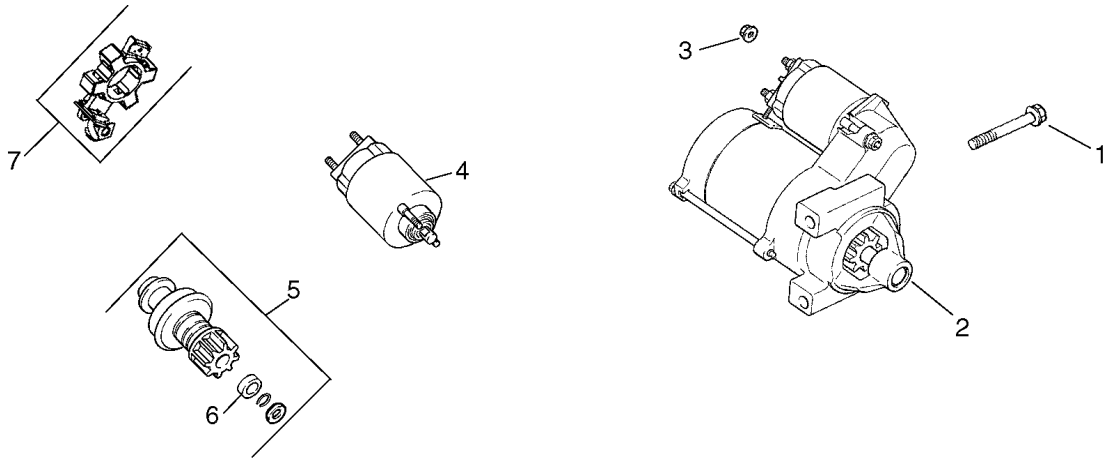
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 54 755 09-S | 1 | Kit, 15 Amp Stator (Includes 2) |
| ❸2 | 24 126 71-S | 1 | Bracket-Stator Wire |
| ❸3 | M-548025-S | 2 | Screw-Hex Cap |
| ❸4 | 24 584 01-S | 2 | Module-Ignition |
| ❸5 | M-545020-S | 4 | Screw-HF |
| ❸6 | 12 132 06-S | 2 | Plug-Spark |
| ❸7 | 24 025 04-S | 1 | Flywheel |
| ❸8 | X-42-15-S | 1 | Key |
| ❸9 | 12 468 03-S | 1 | Washer |
| ❸10 | 12 086 14-S | 1 | Screw |
| ❸11 | 24 157 03-S | 1 | Fan |
| ❸12 | 25 086 47-S | 4 | Bolt-Shoulder |
| ❸13 | 24 086 18-S | 2 | Screw |
| ❸14 | X-25-92-S | 2 | Washer |
| ❸15 | 25 403 03-S | 1 | Rectifier-Regulator |
| ❸16 | 236602-S | 1 | Connector |
| ❸17 | 235173-S | 1 | Clip-Cable |
| ❸18 | X-25-63-S | 1 | Washer |
| ❸19 | 48 154 02-S | 1 | Clip-Cable |
| ❶❸ | 24 176 08-S | 1 | Harness, Wiring |
| ❶❸ | 24 518 12-S | 1 | Lead-Black |
| ❶❸ | 25 454 03-S | 2 | Tie |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❶❸ | 25 086 91-S | 2 | Screw, Sems Hex Cap (Used To Mount Terminal On Wiring Harness To Baffle |
| ❶❸ | X-22-11-S | 1 | Washer-Lock |



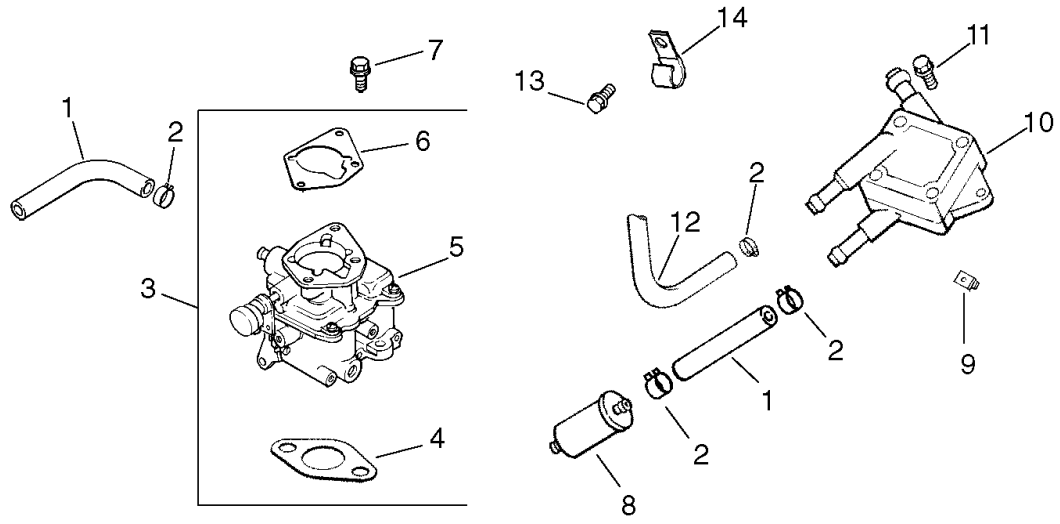

# Group 6-Blower Housing Assembly
# Kohler CH20S-64667

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 24 027 39-S | 1 | Housing, Blower ASM (Includes 2-4, And Insert 24 332 01-Sqty. 5) |
| ❸2 | 25 139 16-S | 1 | Plug-Button |
| ❸3 | 24 100 01-S | 2 | Nut |
| ❸4 | 24 100 02-S | 2 | Nut-Plastic |
| ❸5 | 24 755 81-S | 1 | Kit, Fixed Guard (Includes 6, 7, And Insert 24 332 01-Sqty. 5 |
| ❸6 | 24 468 10-S | 5 | Washer-Plain |
| ❸7 | 24 086 35-S | 5 | Screw-Head, Pan |
| ❸8 | M-551016-S | 1 | Screw-HF |
| ❸9 | M-545016-S | 3 | Screw-HF |
| ❸10 | M-545020-S | 4 | Screw-HF |
| ❸11 | 24 146 16-S | 1 | Plate-Backing, #2 Side |
| ❸12 | M-645016-S | 6 | Screw-HF |
| ❸13 | 24 063 20-S | 1 | Baffle-Cylinder Barrel, #2 Side |
| ❸14 | 24 063 17-S | 1 | Baffle-Valley #2 Side |
| ❸15 | M-545010-S | 2 | Nut-HF |
| ❸16 | 24 063 24-S | 1 | Baffle, Valley 1 Side |
| ❸17 | 24 063 58-S | 1 | Baffle-Cylinder, #2 Side |
| ❸18 | 24 146 20-S | 1 | Plate-Backing, #1 Side |
| ❶❸ | 25 113 24-S | 1 | Decal, Small Round |
| ❶❸ | 24 113 95-S | 1 | Decal-Hp |



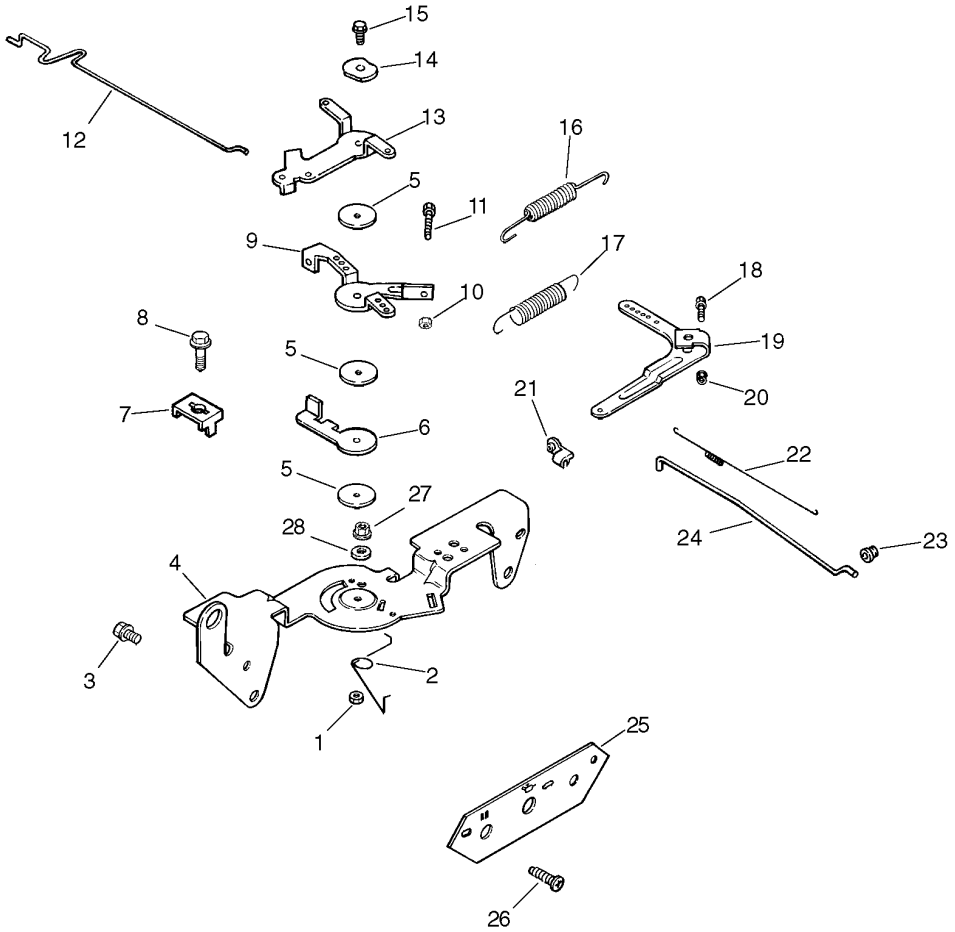

# Group 7-Starter Assembly
# Kohler CH20S-64667

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | M-839080-S | 2 | Screw-HF |
| ❸2 | 25 098 08-S | 1 | Starter, Solenoid Shift ASM (Includes 4-7) |
| ❸3 | M-841080-S | 1 | Nut-HF |
| ❸4 | 25 435 04-S | 1 | Kit-Solenoid |
| ❸5 | 25 755 33-S | 1 | Kit, Pinion Drive (Includes 6) |
| ❸6 | 25 141 05-S | 1 | Ring |
| ❸7 | 25 221 01-S | 1 | Brush Kit |




# Group 8-Fuel System Assembly
# Kohler CH20S-64667

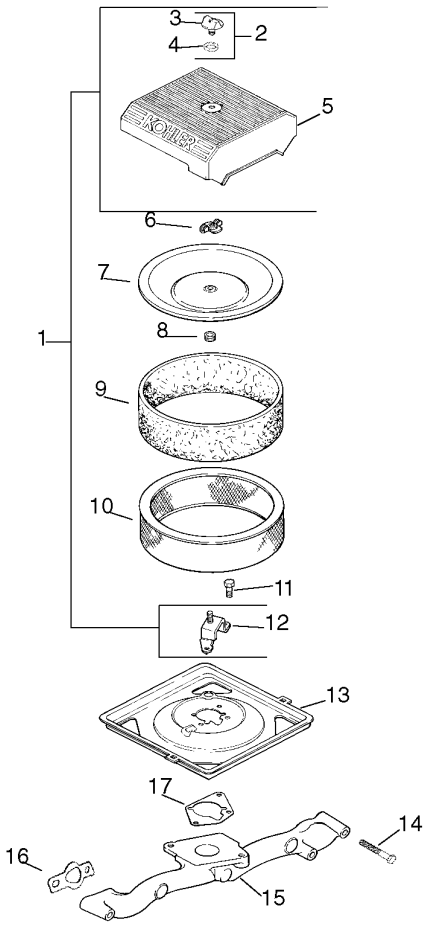
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 25 353 32-S | 2 | Line-Fuel |
| ❸2 | 25 237 14-S | 6 | Clamp-Hose |
| ❸3 | 24 853 43-S | 1 | Kit, Carburetor W/gasket (Includes 4-6) |
| ❸4 | 24 041 17-S | 1 | Gasket-Carburetor |
| ❸5 | 24 053 43 | 1 | Carburetor Assembly |
| ❸6 | 24 041 06-S | 1 | Gasket-Air Cleaner |
| ❸7 | M-651030-S | 2 | Screw-HF |
| ❸8 | 24 050 02-S | 1 | Filter-Fuel |
| ❸9 | 24 100 01-S | 2 | Nut |
| ❸10 | 24 393 16-S | 1 | Pump-Fuel |
| ❸11 | 24 086 12-S | 2 | Screw |
| ❸12 | 24 353 02-S | 1 | Line-Fuel |
| ❸13 | M-650012-S | 1 | Screw-HF |
| ❸14 | 47 154 01-S | 1 | Clip-Cable |
| ❶❸ | 24 757 01-S | 1 | Soleniod Kit |
| ❶❸ | 24 757 02-S | 1 | Float Kit |
| ❶❸ | 24 757 03-S | 1 | Carburetor Repair Kit |
| ❶❸ | 24 757 07-S | 1 | Choke Repair Kit |




# Group 9-Engine Control Assembly
# Kohler CH20S-64667

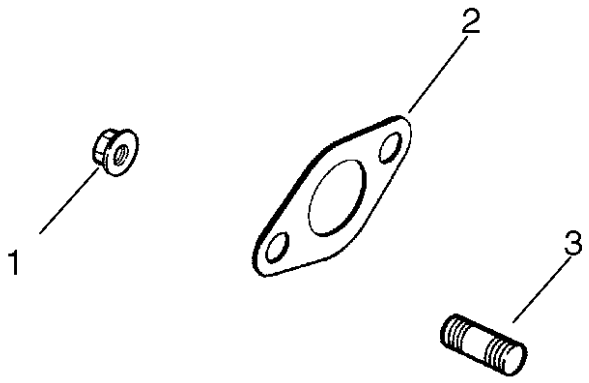
| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | M-547050-S | 1 | Nut-Hex |
| ❸2 | 24 089 03-S | 1 | Spring-Choke Return |
| ❸3 | M-645016-S | 4 | Screw-HF |
| ❸4 | 24 126 56-S | 1 | Bracket-Control |
| ❸5 | 24 468 01-S | 3 | Washer |
| ❸6 | 24 090 07-S | 1 | Lever-Actuator,throttle |
| ❸7 | 12 237 01-S | 2 | Clamp-Cable |
| ❸8 | M-545016-S | 3 | Screw-HF |
| ❸9 | 24 090 03-S | 1 | Lever-Throttle Control |
| ❸10 | M-446030-S | 1 | Nut-HF |
| ❸11 | M-401030-S | 1 | Screw |
| ❸12 | 24 079 02-S | 1 | Linkage-Choke |
| ❸13 | 24 090 05-S | 1 | Lever-Choke |
| ❸14 | 41 468 03-S | 1 | Washer-Wave |
| ❸15 | M-545020-S | 1 | Screw-HF |
| ❸16 | 24 089 51-S | 1 | Spring, Governor |
| ❸17 | 24 089 46-S | 1 | Spring-Governor |
| ❸18 | 24 211 03-S | 1 | Bolt |
| ❸19 | 24 090 33-S | 1 | Lever-Governor |
| ❸20 | M-641060-S | 1 | Nut-HF |
| ❸21 | 25 158 11-S | 1 | Bushing |
| ❸22 | 24 089 01-S | 1 | Spring-Linkage |
| ❸23 | 25 158 08-S | 1 | Bushing |
| ❸24 | 24 079 01-S | 1 | Linkage-Throttle |

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸25 | 24 378 01-S | 1 | Panel, Control |
| ❸26 | 24 086 06-S | 1 | Screw |
| ❸27 | M-541050-S | 1 | Nut |
| ❸28 | X-20-1-S | 1 | Washer-Lock |




# Group 10-Air Intake/Filtration Assembly
# Kohler CH20S-64667

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | 24 743 06-S | 1 | Kit, Air Cleaner Cover (Includes 2-5, 12) |
| ❸2 | 54 755 01-S | 1 | Kit, Knob W/seal (Includes 3, 4) |
| ❸3 | 25 341 03-S | 1 | Knob-Cover |
| ❸4 | 24 153 20-S | 1 | O-Ring |
| ❸5 | 24 096 26-S | 1 | Cover, Air Cleaner |
| ❸6 | 12 100 01-S | 1 | Nut-Wing |
| ❸7 | 24 096 01-S | 1 | Cover-Inner Air Cleaner |
| ❸8 | 24 032 03-S | 1 | Seal-Breather |
| ❸9 | 24 083 02-S | 1 | Element-Precleaner |
| ❸10 | 47 083 03-S | 1 | Element-Air Cleaner |
| ❸11 | M-639016-S | 3 | Screw-HF |
| ❸12 | 24 126 21-S | 1 | Bracket-Air Cleaner |
| ❸13 | 24 094 03-S | 1 | Base-Air Cleaner |
| ❸14 | 25 086 84-S | 4 | Screw-Hfh |
| ❸15 | 24 164 14-S | 1 | Manifold |
| ❸16 | 24 041 01-S | 2 | Gasket-Intake Manifold |
| ❸17 | 24 041 06-S | 1 | Gasket-Air Cleaner |




# Group 11-Exhaust Assembly
# Kohler CH20S-64667

| Ref | Part No. | Qty. | Description |
|---|---|---|---|
| ❸1 | M-841080-S | 4 | Nut-HF |
| ❸2 | 24 041 02-S | 2 | Gasket-Exhaust |
| ❸3 | 25 072 04-S | 4 | Stud |
| ❶❸ | 24 522 181 | 1 | Short Block |
| ❶❸ | 24 782 15 | 1 | Miniblock |
| ❶❸ | 24 755 107-S | 1 | Gasket Set |

# NOTES

# NOTES


TORO®