



# Z149

## Z-Master<sup>®</sup> with 52in Side Discharge Mower

Model No. 74179—220010043 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.

## Contents

| <b>Description</b>                             | <b>Page</b> | <b>Description</b>                         | <b>Page</b> |
|--|-------------|--|-------------|
| Front Frame Assembly .....                     | 4           | Valve/Camshaft Assembly – Kawasaki         |             |
| Height of Cut Assembly .....                   | 6           | FH601V-AS23 .....                          | 23          |
| Main Frame Assembly .....                      | 7           | Valve/Camshaft Assembly – Kawasaki         |             |
| Fuel System Assembly .....                     | 8           | FH601V-AS23 .....                          | 24          |
| Parking Brake System Assembly .....            | 9           | Cooling Equipment Assembly – Kawasaki      |             |
| Motion Control System Assembly .....           | 10          | FH601V-AS23 .....                          | 25          |
| Hydraulic System Assembly .....                | 11          | Cooling Equipment Assembly – Kawasaki      |             |
| Pump, Idler and Belt Assembly .....            | 12          | FH601V-AS23 .....                          | 26          |
| Engine and Clutch Assembly .....               | 13          | Electric Equipment Assembly – Kawasaki     |             |
| Deck Assembly .....                            | 14          | FH601V-AS23 .....                          | 27          |
| Deck Spindle Assembly .....                    | 15          | Electric Equipment Assembly – Kawasaki     |             |
| Idler, Pulley/Lift Strut, Chain Assembly ..... | 16          | FH601V-AS23 .....                          | 28          |
| Electrical System Assembly .....               | 17          | Control Equipment Assembly – Kawasaki      |             |
| Electrical Schematic .....                     | 18          | FH601V-AS23 .....                          | 29          |
| Piston/Crankshaft Assembly – Kawasaki          |             | Control Equipment Assembly – Kawasaki      |             |
| FH601V-AS23 .....                              | 19          | FH601V-AS23 .....                          | 30          |
| Lubrication Equipment Assembly – Kawasaki      |             | Carburetor Assembly–Kawasaki FH601V-AS23   | 31          |
| FH601V-AS23 .....                              | 20          | Carburetor Assembly–Kawasaki FH601V-AS23   | 32          |
| Cylinder/Crankcase Assembly – Kawasaki         |             | Fuel Tank/Fuel Valve Assembly–Kawasaki     |             |
| FH601V-AS23 .....                              | 21          | FH601V-AS23 .....                          | 33          |
| Cylinder/Crankcase Assembly – Kawasaki         |             | Starter/Decal – Kawasaki FH601V-AS23 ..... | 34          |
| FH601V-AS23 .....                              | 22          |  |             |

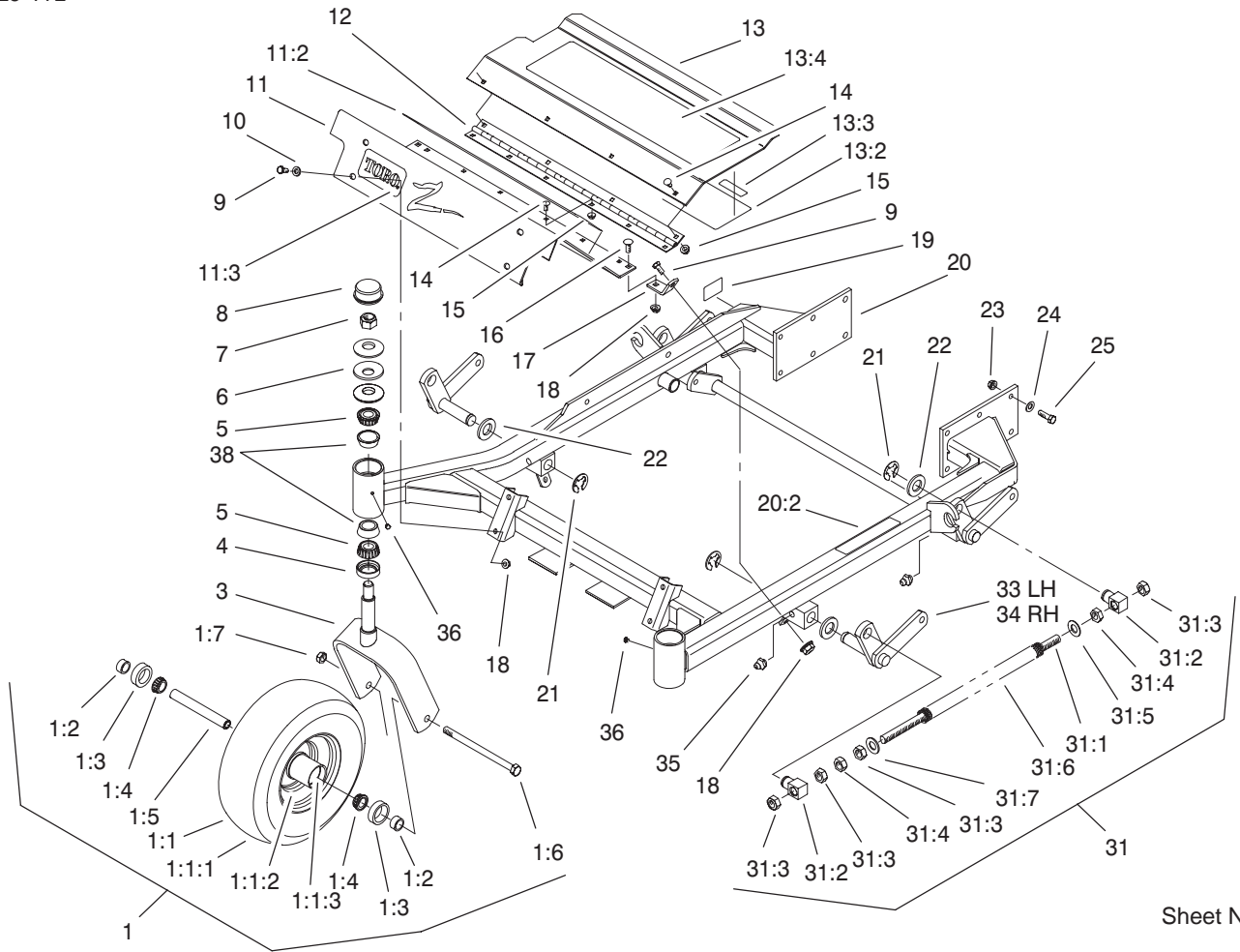
## Accessories

| <b>Description</b>                       | <b>Model / Part No.</b> | <b>Description</b>             | <b>Model / Part No.</b> |
|--|-------------------------|--------------------------------|-------------------------|
| Recycler Kit .....                       | 59225                   | Striping Kit .....             | 30121                   |
| Bahaia Mulch Kit .....                   | 59227                   | High Suspension Seat .....     | 99-8522                 |
| High Sail Blades                         |                         | Z-Stand Kit .....              | 105-1621                |
| (3 required for improved bagging) .....  | 56-2390                 | Muffler Kit .....              | 105-3636                |
| Atomic Blades                            |                         | Hitch Kit .....                | 99-8924                 |
| (3 required for improved mulching) ..... | 104-1301                | Roll-Over-Protection Kit ..... | 79470                   |
| Steel Bagger .....                       | 30107                   |                                |                         |

## Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

| <b>Abbreviation</b> | <b>Meaning</b>                    | <b>Abbreviation</b> | <b>Meaning</b>          |
|---------------------|-----------------------------------|---------------------|-------------------------|
| AR .....            | as required                       | HYD .....           | hydraulic               |
| ASM .....           | assembly                          | INC .....           | incorporated            |
| CARR .....          | carriage                          | LH .....            | left hand               |
| DEG .....           | degrees                           | NI .....            | nylon insert            |
| FH .....            | flat head                         | PPH .....           | Phillips pan head       |
| GA .....            | gauge                             | PTH .....           | Phillips truss head     |
| HF .....            | hex flange                        | PTO .....           | power take off          |
| HH .....            | hex head                          | RH .....            | right hand              |
| HHF .....           | hex head flange                   | SFH .....           | slotted fillister head  |
| HLH .....           | hex lag head                      | SHH .....           | slotted hex head        |
| HJ .....            | hex jam                           | SQH .....           | square head             |
| HOC .....           | height-of-cut                     | SHWH .....          | slotted hex washer head |
| HS .....            | hex socket                        | SPH .....           | slotted pan head        |
| HSBH .....          | hex socket button head            | SRH .....           | slotted round head      |
| HSFH .....          | hex socket flat head              | STD .....           | standard                |
| HSH .....           | hex socket head                   | TAP .....           | self tapping            |
| HWH .....           | hex washer head                   | TTH .....           | Torx truss head         |
| HWHTF .....         | hex washer head<br>thread forming | WH .....            | wing head               |



Sheet No.: 2

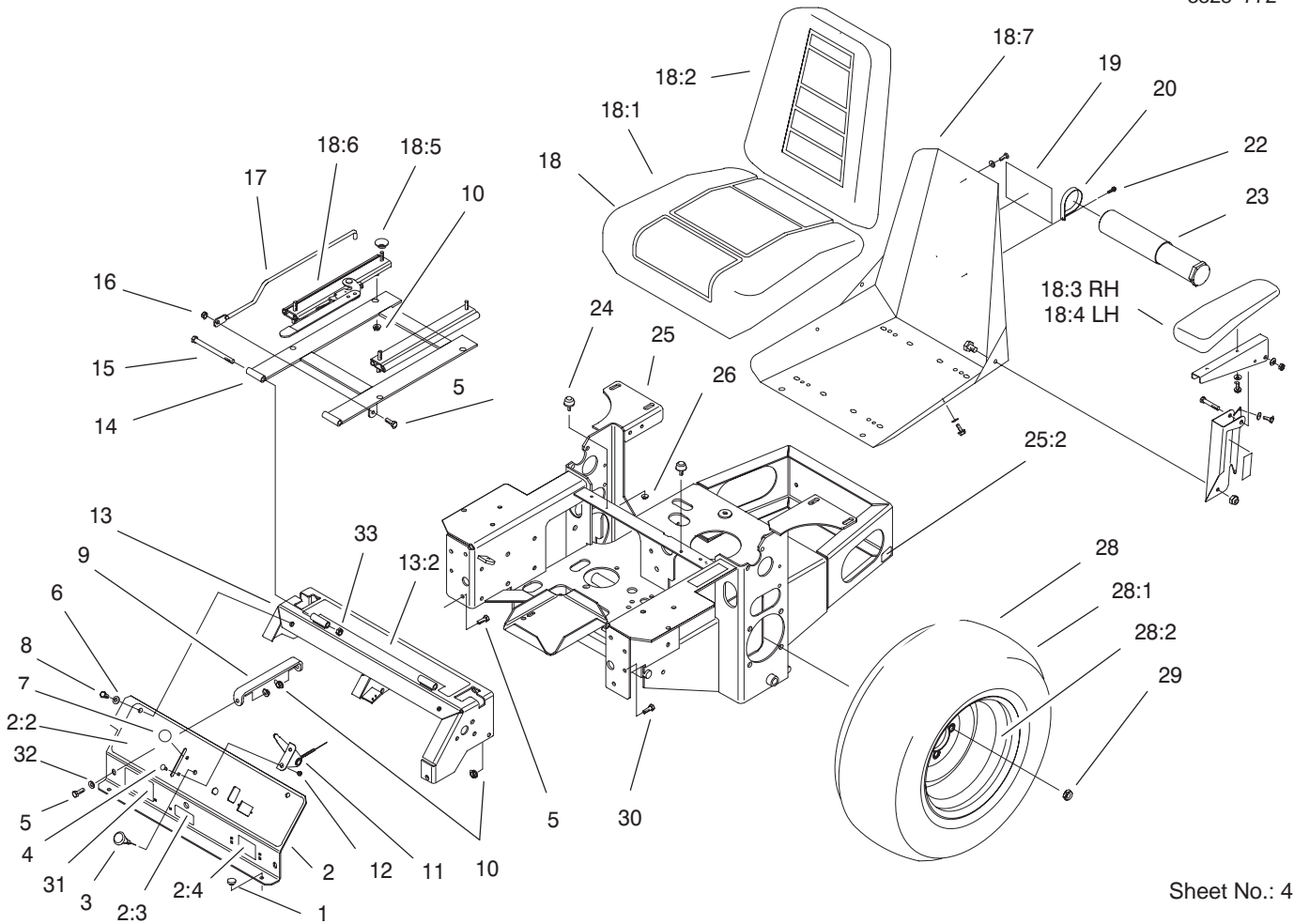
## Front Frame Assembly

| Ref. No. | Part No.    | Qty. | Description          |
|----------|-------------|------|----------------------|
| 1        | 1-634662    | 2    | Caster Wheel ASM     |
| 1:1      | 1-633582    | 1    | Wheel & Tire ASM     |
| 1:1:1    | 1-633002    | 1    | Tire                 |
| 1:1:2    | 1-633583    | 1    | Wheel                |
| 1:1:3    | 1-633584    | 2    | Bearing-Cup          |
| 1:2      | 1-633581    | 2    | Spacer-Bearing       |
| 1:3      | 1-633580    | 2    | Seal-Bearing         |
| 1:4      | 1-633585    | 2    | Bearing-Cone, Taper  |
| 1:5      | 1-633579    | 1    | Spacer-Caster, Front |
| 1:6      | 325-36      | 1    | Screw-HH             |
| 1:7      | 3296-45     | 1    | Nut-Lock, NI         |
| 3        | 1-632511-01 | 2    | Caster               |
| 4        | 1-543511    | 2    | Seal-Grease          |
| 5        | 254-94      | 4    | Bearing-Cone, Taper  |
| 6        | 1-633508    | 6    | Washer-Bellville     |
| 7        | 3296-51     | 2    | Nut-Lock, NI         |
| 8        | 1-543513    | 2    | Cap-Grease           |
| 9        | 322-3       | 6    | Screw-HH             |
| 10       | 3256-23     | 4    | Washer-Flat          |
| 11       | 99-3940     | 1    | Floorpan-Front       |
| 11:2     | 1-633553    | 1    | Pad-Antiskid         |
| 11:3     | 1-633737    | 1    | Decal-Z-Master       |
| 12       | 1-653049    | 1    | Hinge-Floorpan       |
| 13       | 99-3930     | 1    | Footrest ASM         |
| 13:2     | 99-3924     | 1    | Decal-Service        |
| 13:3     | 98-5954     | 1    | Decal-Missing, Cover |

| Ref. No. | Part No.   | Qty. | Description             |
|----------|------------|------|-------------------------|
| 13:4     | 1-633553   | 1    | Pad-Antiskid            |
| 14       | 3229-10    | 10   | Screw-CARR              |
| 15       | 32128-33   | 10   | Nut-HF                  |
| 16       | 3230-1     | 2    | Screw-CARR              |
| 17       | 99-3870-01 | 2    | Bracket-Floorpan        |
| 18       | 32128-20   | 8    | Nut-HF                  |
| 19       | 105-2625   | 1    | Decal-Safety STD        |
| 20       | 99-3931    | 1    | Front Frame ASM         |
| 20:2     | 1-633818   | 1    | Decal-Warning           |
| 21       | 32151-103  | 6    | Ring-Snap               |
| 22       | 3256-29    | 6    | Washer-Flat             |
| 23       | 3290-357   | 12   | Nut-HHF                 |
| 24       | 98-5975    | 12   | Washer-Belleville       |
| 25       | 323-7      | 12   | Screw-HH                |
| 31       | 103-1987   | 2    | Front Spring ASM        |
| 31:1     | 1-653011   | 1    | Rod-Lift, Deck          |
| 31:2     | 1-633441   | 2    | Swivel-Deck Mount, Rear |
| 31:3     | 3217-11    | 4    | Nut-Hex                 |
| 31:4     | 3218-6     | 2    | Nut-Jam                 |
| 31:5     | 1-805517   | 1    | Washer                  |
| 31:6     | 1-653009   | 1    | Spring-Compression      |
| 31:7     | 3256-27    | 1    | Washer-Flat             |
| 33       | 99-3871-01 | 1    | LH Lift Arm ASM         |
| 34       | 99-3872-01 | 1    | RH Lift Arm ASM         |
| 35       | 302-19     | 4    | Fitting-Grease          |







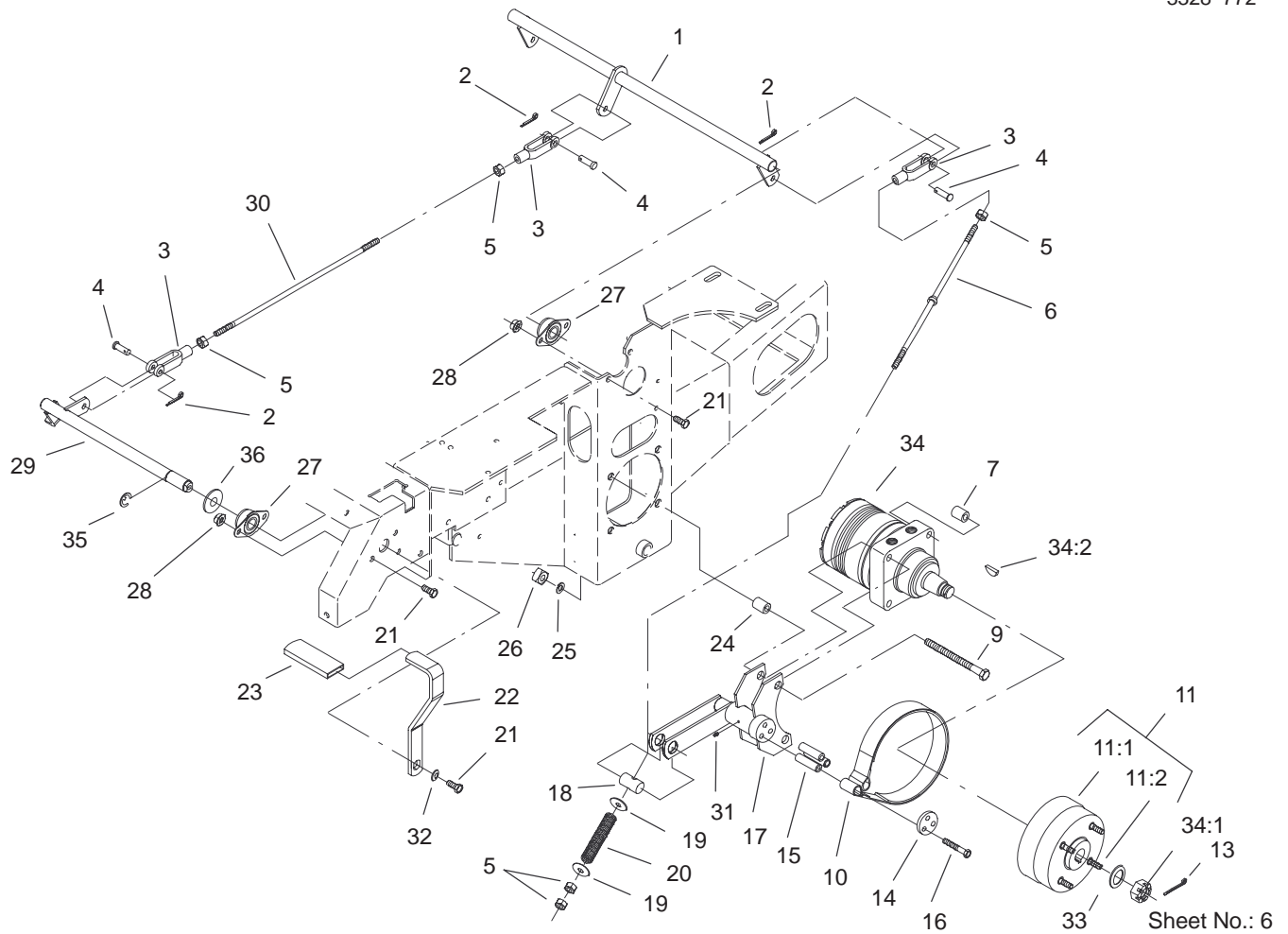
Sheet No.: 4

## Main Frame Assembly

| Ref. No. | Part No.    | Qty. | Description           |
|----------|-------------|------|-----------------------|
| 1        | 1-513658    | 2    | Bumper-Catcher, Grass |
| 2        | 99-3932     | 1    | Control Panel ASM     |
| 2:2      | 99-3942     | 1    | Decal-Panel, Control  |
| 2:3      | 103-0262    | 1    | Decal-Valve, Fuel     |
| 2:4      | 98-4387     | 1    | Decal-Protection, Ear |
| 3        | 1-603336    | 1    | Control-Choke         |
| 4        | 1-807513    | 2    | Bolt-CARR             |
| 5        | 322-5       | 3    | Screw-HH              |
| 6        | 3256-23     | 2    | Washer-Flat           |
| 7        | 1-513592    | 1    | Knob-Ball, Red        |
| 8        | 322-3       | 3    | Screw-HH              |
| 9        | 1-653089-03 | 1    | Bracket               |
| 10       | 32128-20    | 12   | Nut-HF                |
| 11       | 1-633696    | 1    | Cable-Throttle        |
| 12       | 3296-2      | 2    | Nut-Lock              |
| 13       | 105-6123    | 1    | Console ASM           |
| 13:2     | 103-1997    | 1    | Decal-Top Console     |
| 14       | 1-632187-03 | 1    | Frame-Seat            |
| 15       | 323-39      | 2    | Screw-HH              |
| 16       | 3296-29     | 1    | Nut-Lock, NI          |
| 17       | 103-1731    | 1    | Rod-Retainer, Seat    |
| 18       | 1-633705    | 1    | Seat W/Tracks         |
| 18:1     | 103-0290    | 1    | Cushion-Bottom, Seat  |
| 18:2     | 104-7754    | 1    | Cushion-Back, Seat    |
| 18:3     | 1-633710    | 1    | Cushion-Armrest, RH   |

| Ref. No. | Part No. | Qty. | Description         |
|----------|----------|------|---------------------|
| 18:4     | 1-633711 | 1    | Cushion-Armrest, LH |
| 18:5     | 1-543401 | 4    | Spacer-Track        |
| 18:6     | 1-643255 | 1    | Grp-Track, Seat     |
| 18:7     | 1-633859 | 1    | Frame-Seat          |
| 19       | 99-4693  | 1    | Decal-Toro          |
| 20       | 2412-120 | 2    | R-Clamp             |
| 22       | 32104-76 | 2    | Screw               |
| 23       | 74-0720  | 1    | Tube-Manual         |
| 24       | 1-523420 | 2    | Bumper              |
| 25       | 105-6121 | 1    | Main Frame ASM      |
| 25:2     | 65-2690  | 2    | Decal-Surface, Hot  |
| 26       | 3296-42  | 2    | Nut-Lock, NI        |
| 28       | 1-653159 | 2    | ASM, Wheel & Tire   |
| 28:1     | 1-653160 | 1    | Tire                |
| 28:2     | 1-653161 | 1    | Wheel               |
| 29       | 242-50   | 8    | Nut-Lug             |
| 30       | 322-2    | 6    | Screw-HH            |
| 31       | 99-8909  | 1    | Decal-Z149          |
| 32       | 3256-3   | 2    | Washer-Flat         |
| 33       | 3296-39  | 2    | Nut-Lock, NI        |

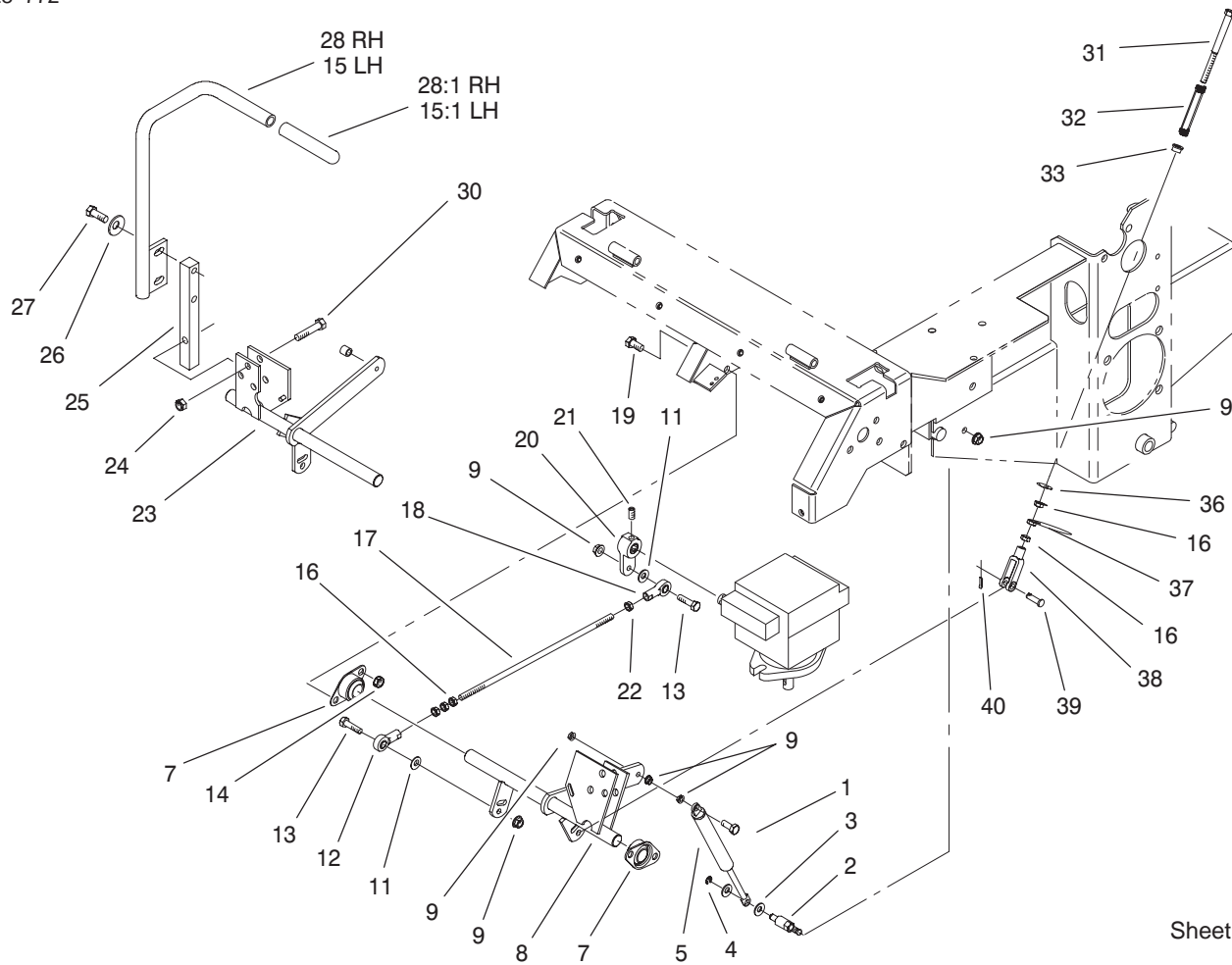




## Parking Brake System Assembly

| Ref. No. | Part No.    | Qty. | Description          | Ref. No. | Part No. | Qty. | Description           |
|----------|-------------|------|----------------------|----------|----------|------|-----------------------|
| 1        | 1-652073-03 | 1    | Crank-Brake, Park    | 27       | 1-633102 | 4    | Bearing-Flange, Side  |
| 2        | 3272-10     | 4    | Pin-Cotter           | 28       | 3290-357 | 8    | Nut-HHF               |
| 3        | 1-633131    | 4    | Yoke-Linkage, Brake  | 29       | 1-652085 | 1    | Shaft-Brake, Parking  |
| 4        | 1-808285    | 4    | Pin-Clevis           | 30       | 1-653061 | 1    | Linkage-Handle, Brake |
| 5        | 3219-3      | 8    | Nut-HH               | 31       | 1481     | 2    | Fitting-Grease        |
| 6        | 103-0356    | 2    | Rod-Brake            | 32       | 98-5975  | 2    | Washer-Belleville     |
| 7        | 1-653068    | 4    | Spacer-Wheel         | 33       | 1-523157 | 2    | Washer-Spacer         |
| 9        | 325-13      | 8    | Screw-HH             | 34       | 1-523328 | 2    | Motor-Wheel           |
| 10       | 103-0355    | 2    | Band-Brake           | 34:1     | 1-809036 | 1    | Nut-HH                |
| 11       | 103-0590    | 2    | Hub-Wheel W/Studs    | 34:2     | 3257-42  | 1    | Key-Woodruff          |
| 11:1     | 103-0589    | 1    | Hub-Wheel            | *34:99   | 1-000099 | 1    | Kit-Seal              |
| 11:2     | 1-633926    | 4    | Stud-Wheel           | *34:99   | 1-000139 | 1    | Kit-Bearing           |
| 13       | 1-806800    | 2    | Pin-Cotter           | 35       | 32151-48 | 1    | E-Ring                |
| 14       | 103-0374    | 2    | Retainer-Band, Brake | 36       | 3256-28  | 1    | Washer-Flat           |
| 15       | 103-0384    | 6    | Spacer               |          |          |      |                       |
| 16       | 322-9       | 6    | Screw-HH             |          |          |      |                       |
| 17       | 103-0352-03 | 2    | Bracket-Brake        |          |          |      |                       |
| 18       | 1-633144    | 2    | Pin-Trunion          |          |          |      |                       |
| 19       | 3256-4      | 4    | Washer-Flat          |          |          |      |                       |
| 20       | 1-633454    | 2    | Spring-Brake         |          |          |      |                       |
| 21       | 323-4       | 9    | Screw-HH             |          |          |      |                       |
| 22       | 1-653074-03 | 1    | Handle-Brake, Park   |          |          |      |                       |
| 23       | 1-633268    | 1    | Grip-Lever, Brake    |          |          |      |                       |
| 24       | 1-653069    | 4    | Spacer-Wheel         |          |          |      |                       |
| 25       | 3253-7      | 8    | Washer-Lock          |          |          |      |                       |
| 26       | 103-0131    | 8    | Nut-Square           |          |          |      |                       |

\* Not illustrated

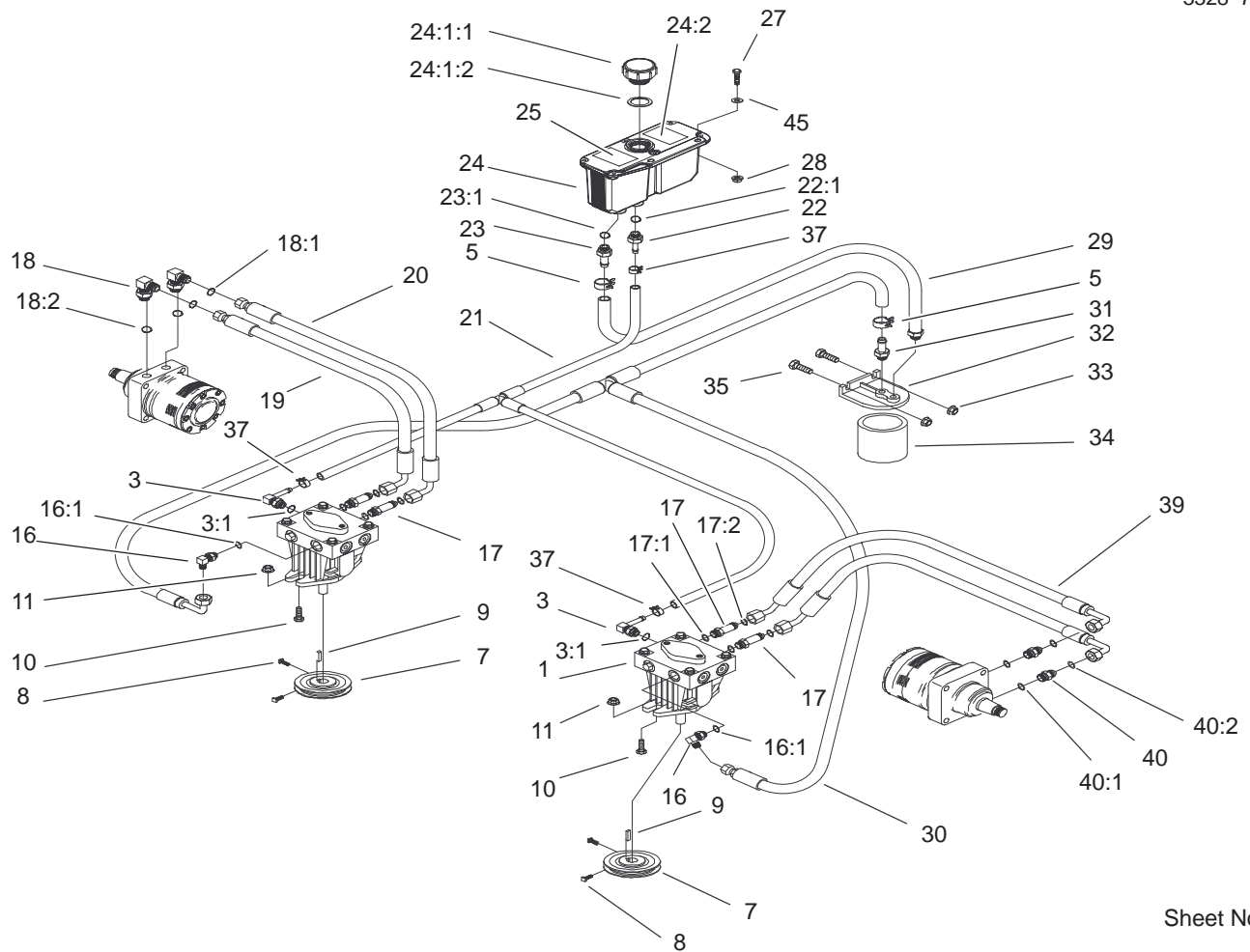


Sheet No.: 7

## Motion Control System Assembly

| Ref. No. | Part No. | Qty. | Description              |
|----------|----------|------|--------------------------|
| 1        | 1-403180 | 2    | Screw-HH                 |
| 2        | 1-653316 | 2    | Pin-Damper               |
| 3        | 3256-23  | 4    | Washer-Flat              |
| 4        | 32120-35 | 2    | E-Ring                   |
| 5        | 1-523027 | 2    | Damper-Control           |
| 7        | 1-633102 | 4    | Bearing-Flange, Side     |
| 8        | 103-2199 | 1    | LH Motion Control<br>ASM |
| 9        | 32128-20 | 12   | Nut-HF                   |
| 11       | 3256-3   | 4    | Washer-Flat              |
| 12       | 1-543017 | 2    | Balljoint-RH             |
| 13       | 322-6    | 4    | Screw-HH                 |
| 14       | 3290-357 | 8    | Nut-HHF                  |
| 15       | 103-0631 | 1    | LH Lever ASM             |
| 15:1     | 1-633257 | 1    | Grip-Control, Motion     |
| 16       | 3219-2   | 10   | Nut-Hex                  |
| 17       | 1-653046 | 2    | Linkage-Pump/Lever       |
| 18       | 1-633152 | 2    | Balljoint-Thread, LH     |
| 19       | 323-4    | 8    | Screw-HH                 |
| 20       | 1-653092 | 2    | Arm-Control, Pump        |
| 21       | 1-803022 | 2    | Screw                    |
| 22       | 1-804524 | 2    | Nut                      |
| 23       | 103-2200 | 1    | RH Motion Control<br>ASM |
| 24       | 3296-39  | 6    | Nut-Lock, NI             |
| 25       | 103-0407 | 2    | Arm-Shaft, Control       |

| Ref. No. | Part No. | Qty. | Description               |
|----------|----------|------|---------------------------|
| 26       | 98-5975  | 4    | Washer-Belleville         |
| 27       | 323-6    | 4    | Screw-HH                  |
| 28       | 103-0632 | 1    | RH Lever ASM              |
| 28:1     | 1-633257 | 1    | Grip-Control, Motion      |
| 30       | 323-9    | 6    | Screw-HH                  |
| 31       | 1-603737 | 2    | Bolt-Return, Neutral      |
| 32       | 1-603807 | 2    | Spring-Return,<br>Neutral |
| 33       | 1-603735 | 2    | Bushing-Flanged           |
| 36       | 3256-2   | 2    | Washer-Flat               |
| 37       | 3220-2   | 2    | Nut                       |
| 38       | 1-303105 | 2    | Yoke-Adjustable           |
| 39       | 1-808280 | 2    | Pin-Clevis                |
| 40       | 3272-5   | 2    | Pin-Cotter                |



Sheet No.: 8

## Hydraulic System Assembly

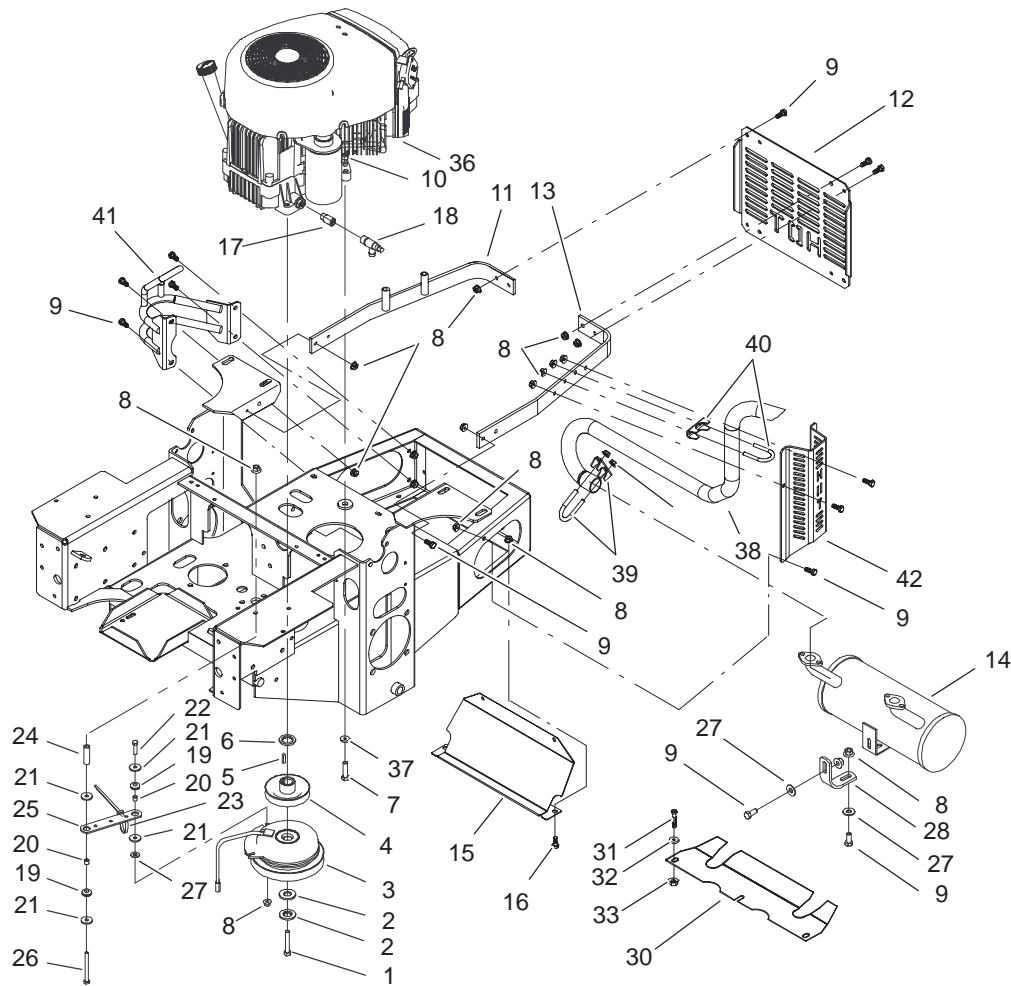
| Ref. No. | Part No. | Qty. | Description             |
|----------|----------|------|-------------------------|
| 1        | 103-1942 | 2    | Pump-Hydraulic          |
| *1:1     | 105-6184 | 1    | Kit - Overhaul, Seal    |
| *1:2     | 105-6185 | 1    | Plate - Valve           |
| *1:8     | 103-2664 | 1    | Kit, Input Shaft 10a    |
| *1:9     | 103-2665 | 1    | Kit, Thrust Bearing 10a |
| *1:10    | 103-2666 | 1    | Kit, Cylinder Block 10a |
| 3        | 103-1799 | 2    | Elbow-90°               |
| 3:1      | 237-42   | 1    | O-Ring                  |
| 5        | 103-1988 | 2    | Clamp-Hose              |
| 7        | 1-653156 | 2    | Sheave                  |
| 8        | 1-803050 | 4    | Screw-Set               |
| 9        | 1-807272 | 2    | Key-Machine             |
| 10       | 323-7    | 4    | Screw-HH                |
| 11       | 3290-357 | 4    | Nut-HHF                 |
| 16       | 103-1802 | 2    | Elbow-90°               |
| 16:1     | 237-42   | 1    | O-Ring                  |
| 17       | 103-1940 | 4    | Adapter, Straight       |
| 17:1     | 237-79   | 1    | O-Ring                  |
| 17:2     | 1-603992 | 1    | O-Ring                  |
| 18       | 1-633605 | 2    | Fitting-Connector       |
| 18:1     | 1-603992 | 1    | O-Ring                  |
| 18:2     | 237-80   | 1    | O-Ring                  |
| 19       | 1-653186 | 1    | Hose, Front             |
| 20       | 1-653187 | 1    | Hose, RH Rear           |
| 21       | 103-1800 | 1    | HYD Hose ASM            |
| 22       | 103-1801 | 1    | Adapter-Straight        |

| Ref. No. | Part No. | Qty. | Description             |
|----------|----------|------|-------------------------|
| 22:1     | 237-42   | 1    | O-Ring                  |
| 23       | 103-1912 | 1    | Adapter, Straight       |
| 23:1     | 237-42   | 1    | O-Ring                  |
| 24       | 103-1947 | 1    | HYD Reservoir ASM       |
| ☆24:1    | 103-1948 | 1    | HYD Reservoir ASM       |
| 24:1:1   | 103-1948 | 1    | Cap-Hydraulic Reservoir |
| 24:1:2   | 103-1949 | 1    | Gasket-Cap              |
| 24:2     | 1-523552 | 1    | Decal-Tank, Hydraulic   |
| 25       | 103-2644 | 1    | Decal-Exhaust           |
| 27       | 321-14   | 2    | Screw-HH                |
| 28       | 32128-33 | 2    | Nut-HF                  |
| 29       | 103-1805 | 1    | HYD Hose ASM            |
| 30       | 103-1803 | 1    | HYD Hose ASM            |
| 31       | 103-1804 | 1    | Adapter-Straight        |
| 32       | 1-603720 | 1    | Head-Filter             |
| 33       | 32128-20 | 2    | Nut-HF                  |
| 34       | 1-633750 | 1    | Filter-HYD              |
| 34       | 1-633752 | 1    | Filter-HYD, Winter      |
| 35       | 322-5    | 2    | Screw-HH                |
| 37       | 103-1716 | 3    | Clamp-Hose              |
| 39       | 103-1680 | 2    | Hose-LH                 |
| 40       | 1-603991 | 2    | Fitting-Straight        |
| 40:1     | 237-80   | 1    | O-Ring                  |
| 40:2     | 1-603992 | 1    | O-Ring                  |
| 45       | 3256-22  | 2    | Washer-Flat             |

\* Not illustrated

☆ Not serviced separately



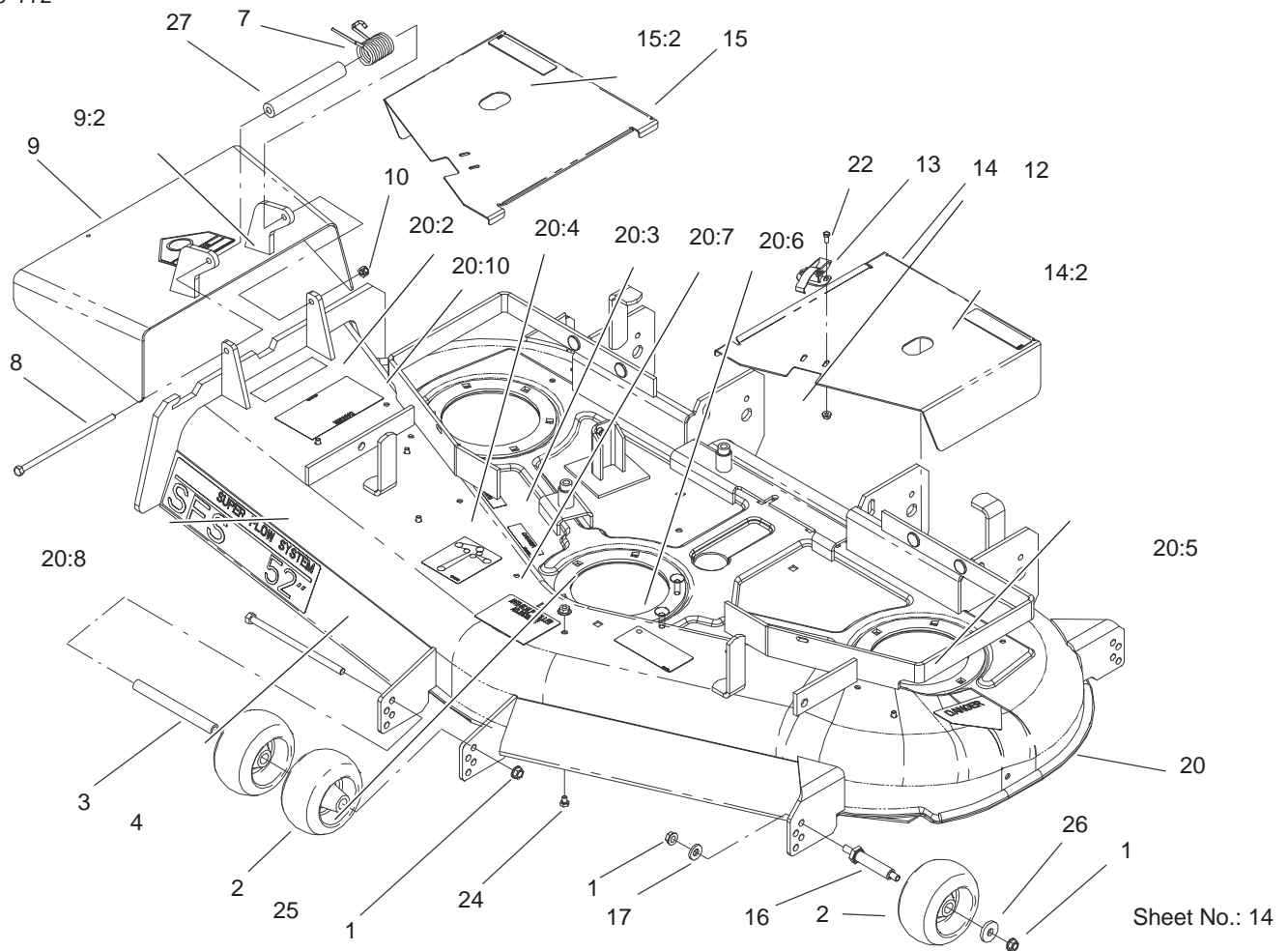


Sheet No.: 10

## Engine and Clutch Assembly

| Ref. No. | Part No.    | Qty. | Description                   | Ref. No. | Part No.    | Qty. | Description                     |
|----------|-------------|------|-------------------------------|----------|-------------|------|---------------------------------|
| 1        | 3212-12     | 1    | Screw-HH                      | 26       | 322-22      | 1    | Screw-HH                        |
| 2        | 1-603610    | 2    | Washer-Spring                 | 27       | 3256-3      | 3    | Washer-Flat                     |
| 3        | 1-653048    | 1    | Clutch-Stop                   | 28       | 1-653196    | 1    | Bracket-Support,<br>Muffler     |
| 4        | 1-653035    | 1    | Sheave W/Hub                  | 30       | 1-653539-03 | 1    | Shield,Heat                     |
| 5        | 1-807259    | 1    | Key                           | 31       | 3230-1      | 3    | Screw-CARR                      |
| 6        | 103-2308    | 1    | Spacer-Crankshaft             | 32       | 3256-23     | 3    | Washer-Flat                     |
| 7        | 322-9       | 4    | Screw-HH                      | 33       | 3296-29     | 3    | Nut-Lock, NI                    |
| 8        | 32128-20    | 27   | Nut-HF                        | ☆36      |             | 1    | Engine-Kawasaki,<br>FH601V-AS23 |
| 9        | 322-3       | 21   | Screw-HH                      | 37       | 1-303334    | 2    | Washer-Spring                   |
| 10       | 3296-29     | 4    | Nut-Lock, NI                  | 38       | 103-2599    | 1    | Wld,Tailpipe                    |
| 11       | 1-652146-03 | 1    | Strap-Guard, Engine           | 39       | 103-2630    | 1    | Clamp,1.25"                     |
| 12       | 1-653095-03 | 1    | Shield-Engine                 | 40       | 103-2631    | 1    | Clamp,1.125"                    |
| 13       | 103-2751-03 | 1    | Strap,Eng Guard LH<br>Exhaust | 41       | 103-2564-03 | 1    | RH Exhaust Guard<br>ASM         |
| 14       | 103-1322    | 1    | Muffler                       | 42       | 103-2566-03 | 1    | LH Exhaust Guard<br>ASM         |
| 15       | 103-2560-03 | 1    | Shield-Heat                   |          |             |      |                                 |
| 16       | 322-2       | 4    | Screw-HH                      |          |             |      |                                 |
| 17       | 103-1966    | 1    | Adapter                       |          |             |      |                                 |
| 18       | 103-1965    | 1    | Valve-Drain, Oil              |          |             |      |                                 |
| 19       | 1-633630    | 2    | Grommet-Brake                 |          |             |      |                                 |
| 20       | 1-633545    | 2    | Spacer-Grommet                |          |             |      |                                 |
| 21       | 1-613235    | 4    | Washer                        |          |             |      |                                 |
| 22       | 322-6       | 1    | Screw-HH                      |          |             |      |                                 |
| 23       | 1-303335    | 2    | Tie-Plastic                   |          |             |      |                                 |
| 24       | 1-523406    | 1    | Bushing-Mount, Seat           |          |             |      |                                 |
| 25       | 1-633543-03 | 1    | Strap-Clutch, Brake           |          |             |      |                                 |

☆ Not serviced separately



Sheet No.: 14

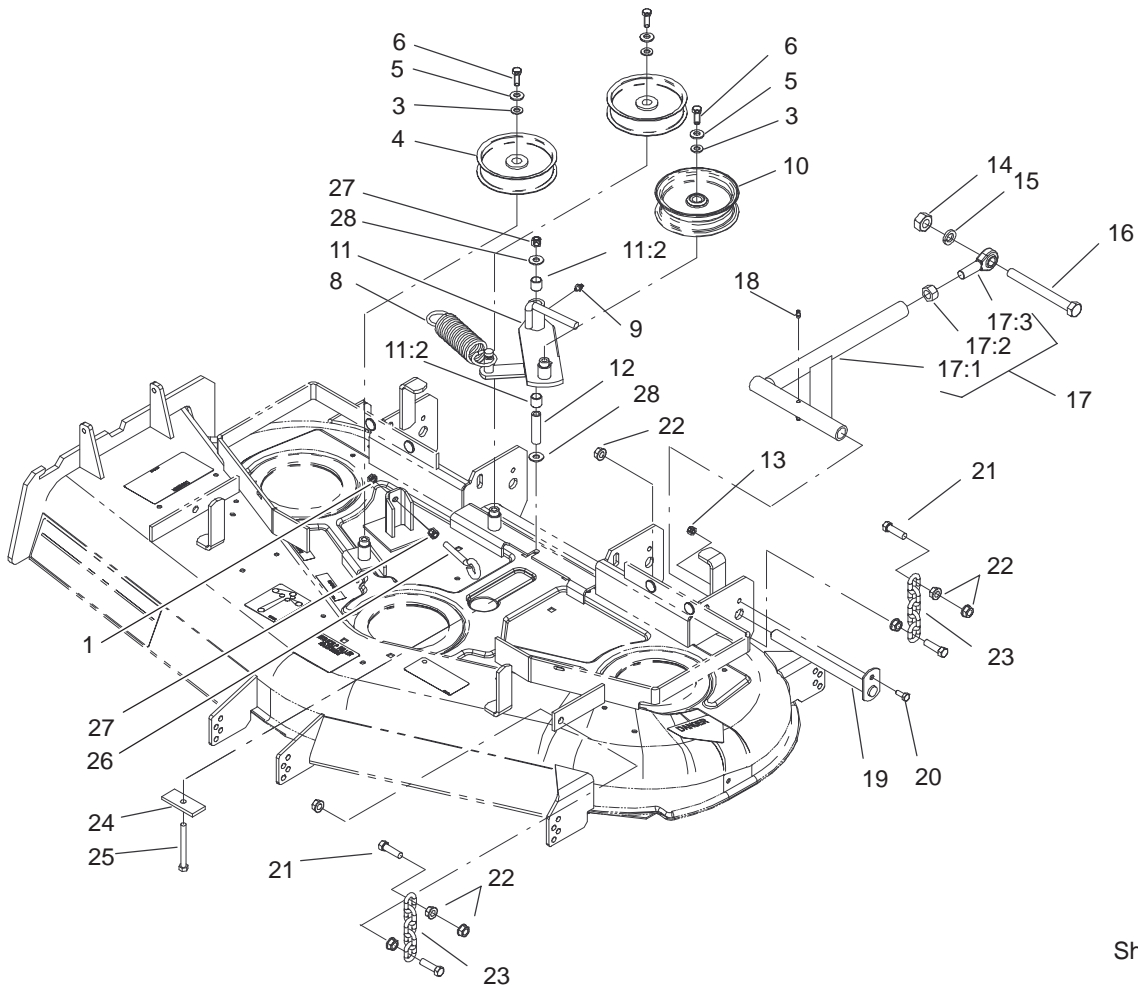
## Deck Assembly

| Ref. No. | Part No. | Qty. | Description                          |
|----------|----------|------|--------------------------------------|
| 1        | 3290-357 | 9    | Nut-HHF                              |
| 2        | 68-2730  | 6    | Wheel-Gage                           |
| 3        | 98-5967  | 1    | Spacer-Wheel                         |
| 4        | 323-28   | 1    | Screw-HH                             |
| 7        | 104-8554 | 1    | Spring-Torsion                       |
| 8        | 322-50   | 1    | Screw-Cap                            |
| 9        | 105-4623 | 1    | Deflector ASM                        |
| 9:2      | 54-9220  | 1    | Decal-Danger                         |
| 10       | 3296-29  | 1    | Nut-Lock, NI                         |
| 12       | 32128-17 | 4    | Nut-Lock, Flange                     |
| 13       | 249-21   | 2    | Clamp-Slotted                        |
| 14       | 99-3896  | 1    | LH Cover ASM                         |
| 14:2     | 67-5360  | 1    | Decal-Danger                         |
| 15       | 99-3895  | 1    | RH Cover ASM                         |
| 15:2     | 67-5360  | 1    | Decal-Danger                         |
| 16       | 99-2842  | 4    | Spacer-Wheel                         |
| 17       | 98-5975  | 4    | Washer-Belleville                    |
| 20       | 105-1695 | 1    | Deck Service ASM<br>(52, 100 Series) |
| ☆20      |          | 1    | Deck ASM W/ Decals                   |
| 20:2     | 104-8569 | 1    | Decal-Warning,<br>Deflector          |
| 20:3     | 98-5954  | 3    | Decal-Missing, Cover                 |
| 20:4     | 99-3943  | 1    | Decal-Routing, Belt                  |
| 20:5     | 43-8480  | 1    | Decal-Danger                         |

| Ref. No. | Part No. | Qty. | Description                     |
|----------|----------|------|---------------------------------|
| 20:6     | 93-7818  | 1    | Decal-Torque, Blade<br>Bolt     |
| 20:7     | 98-3798  | 1    | Decal-Wheel, Gage               |
| 20:8     | 98-5953  | 1    | Decal-Sfs                       |
| 20:10    | 66-1340  | 1    | Decal-Danger                    |
| 22       | 3290-321 | 4    | Screw-HWH                       |
| 24       | 321-1    | 6    | Screw-HH                        |
| 25       | 32128-33 | 6    | Nut-HF                          |
| 26       | 1-373034 | 4    | Washer-Swivel                   |
| 27       | 105-4622 | 1    | Spacer - Mounting,<br>Deflector |

☆ Not serviced separately



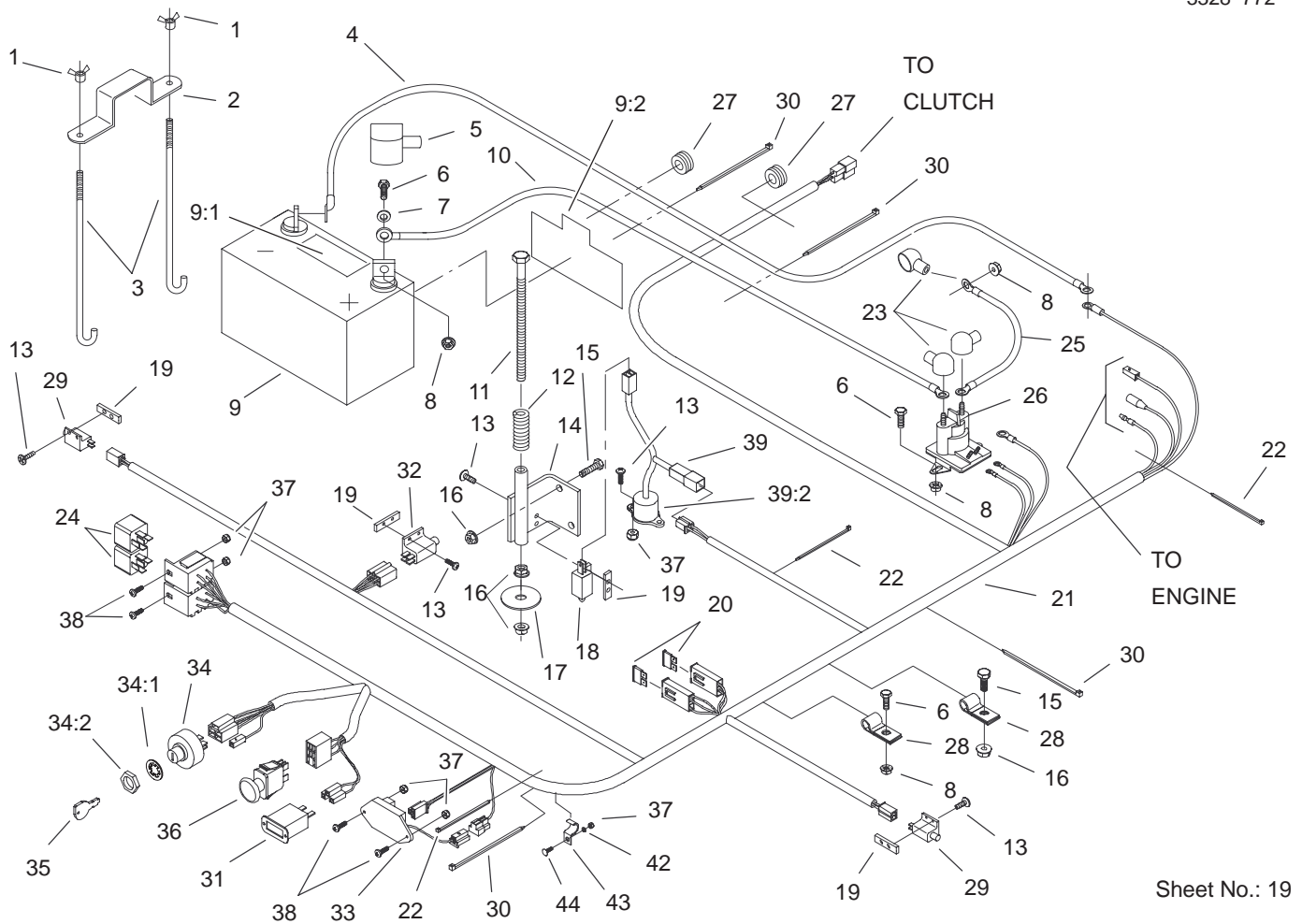


Sheet No.: 16

## Idler, Pulley/Lift Strut, Chain Assembly

| Ref. No. | Part No.    | Qty. | Description          |
|----------|-------------|------|----------------------|
| 1        | 3217-7      | 1    | Nut-Hex              |
| 3        | 3256-24     | 3    | Washer-Flat          |
| 4        | 1-613098    | 2    | Pulley-Idler         |
| 5        | 98-5975     | 3    | Washer-Belleville    |
| 6        | 323-6       | 3    | Screw-HH             |
| 8        | 1-633151    | 1    | Spring-Extension     |
| 9        | 302-40      | 1    | Fitting-Grease       |
| 10       | 1-413099    | 1    | Pulley-Idler         |
| 11       | 99-3879     | 1    | Idler Arm ASM        |
| 11:2     | 1-513034    | 2    | Sleeve-Bearing       |
| 12       | 1-603384    | 1    | Bushing-Pivot, Idler |
| 13       | 3296-29     | 2    | Nut-Lock, NI         |
| 14       | 3217-11     | 2    | Nut-Hex              |
| 15       | 3253-8      | 2    | Washer-Lock          |
| 16       | 1-800344    | 2    | Screw                |
| 17       | 103-1081    | 2    | Strut ASM            |
| 17:1     | 103-1072-01 | 1    | Strut-Deck           |
| 17:2     | 3219-6      | 1    | Nut-Hex              |
| 17:3     | 1-633029    | 1    | Balljoint-Spherical  |
| 18       | 302-19      | 4    | Fitting-Grease       |
| 19       | 1-632199-01 | 2    | Pin-Strut, Deck      |
| 20       | 322-3       | 2    | Screw-HH             |
| 21       | 1-800811    | 8    | Screw-Cap, HH        |
| 22       | 32128-37    | 16   | Nut-HF               |
| 23       | 1-633447    | 4    | Chain-Lift, Deck     |
| 24       | 99-3946-01  | 1    | Plate-Retainer, Bolt |

| Ref. No. | Part No. | Qty. | Description     |
|----------|----------|------|-----------------|
| 25       | 1-800805 | 1    | Screw-HH        |
| 26       | 94-2547  | 1    | Bolt-Eye        |
| 27       | 3296-39  | 2    | Nut-Lock, NI    |
| 28       | 1-809107 | 2    | Washer-Hardened |



Sheet No.: 19

## Electrical System Assembly

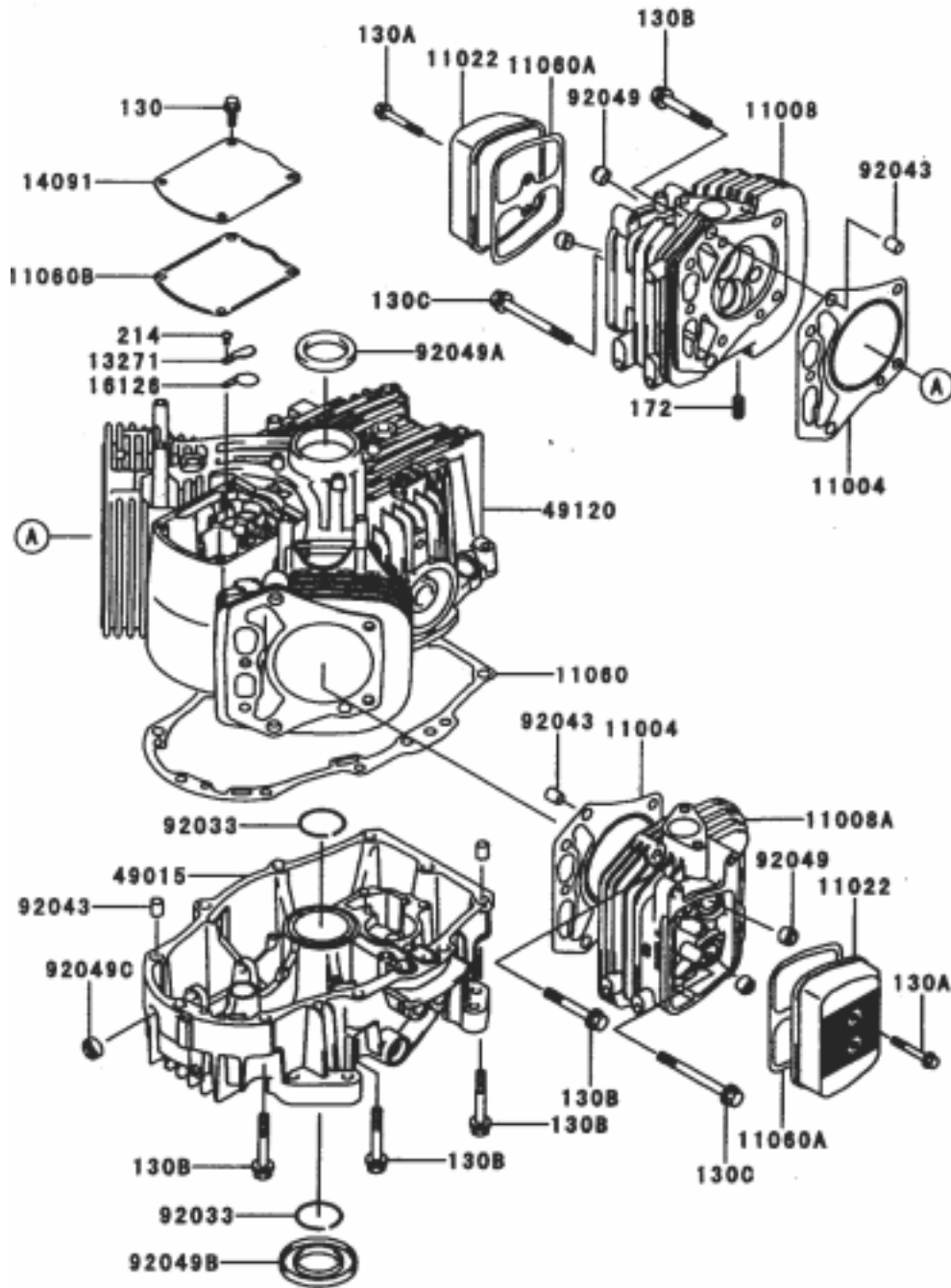
| Ref. No. | Part No.    | Qty. | Description             |
|----------|-------------|------|-------------------------|
| 1        | 1-543792    | 2    | Wingnut                 |
| 2        | 1-633652-03 | 1    | Strap-Holddown, Battery |
| 3        | 1-633651    | 2    | Bolt-Holddown           |
| 4        | 103-0705    | 1    | Cable-Ground, Negative  |
| 5        | 1-543391    | 1    | Insulator-Battery       |
| 6        | 321-4       | 5    | Screw-HH                |
| 7        | 3256-2      | 2    | Washer-Flat             |
| 8        | 32128-33    | 6    | Nut-HF                  |
| 9        | 105-1692    | 1    | Battery - 230 Cca       |
| 9:1      | 104-4163    | 1    | Decal-Battery           |
| 9:2      | 104-4164    | 1    | Decal-Battery           |
| 10       | 103-0707    | 1    | Cable-Battery, Pos.     |
| 11       | 1-800282    | 1    | Screw-HH                |
| 12       | 1-523415    | 1    | Spring-Switch, Seat     |
| 13       | 3290-500    | 10   | Screw-PPH               |
| 14       | 1-652072-03 | 1    | Bracket-Switch, Seat    |
| 15       | 322-3       | 3    | Screw-HH                |
| 16       | 32128-20    | 5    | Nut-HF                  |
| 17       | 1-653036    | 1    | Washer                  |
| 18       | 1-513152    | 1    | Switch-Closed, Normally |
| 19       | 1-633181    | 4    | Plate-Tapped            |
| 20       | 1-816001    | 2    | Fuse-Type, Blade        |
| 21       | 103-0623    | 1    | Harness-Wire            |

| Ref. No. | Part No. | Qty. | Description           |
|----------|----------|------|-----------------------|
| 22       | 1-303287 | 3    | Tie-Plastic           |
| 23       | 1-543393 | 3    | Insulator-Solenoid    |
| 24       | 1-643275 | 2    | Relay                 |
| 25       | 1-633306 | 1    | Wire-Starter          |
| 26       | 1-513075 | 1    | Switch-Solenoid       |
| 27       | 1-543286 | 2    | Grommet               |
| 28       | 1-633396 | 2    | Clip-Loom             |
| 29       | 1-513051 | 2    | Switch-Open, Normally |
| 30       | 1-303335 | 4    | Tie-Plastic           |
| 31       | 1-513374 | 1    | Meter-Hour            |
| 32       | 1-633111 | 1    | Switch                |
| 33       | 100-6186 | 1    | Module-Delay, Seat    |
| 34       | 88-9830  | 1    | Key Switch ASM        |
| 34:1     | 3254-5   | 1    | Washer-Lock, Internal |
| 34:2     | 218-461  | 1    | Nut-HH                |
| 35       | 63-8360  | 2    | Key-Ignition          |
| 36       | 1-633673 | 1    | Switch-Delta          |
| 37       | 3296-2   | 7    | Nut-Lock              |
| 38       | 1-807513 | 4    | Bolt-CARR             |
| 39       | 1-644427 | 1    | Tilt Switch ASM       |
| 39:2     | 1-643401 | 1    | Decal-Switch, Mercury |
| 42       | 3256-14  | 1    | Washer-Flat           |
| 43       | 103-1193 | 1    | Clip-Half, Loom       |
| 44       | 1-807533 | 1    | Bolt-CARR             |





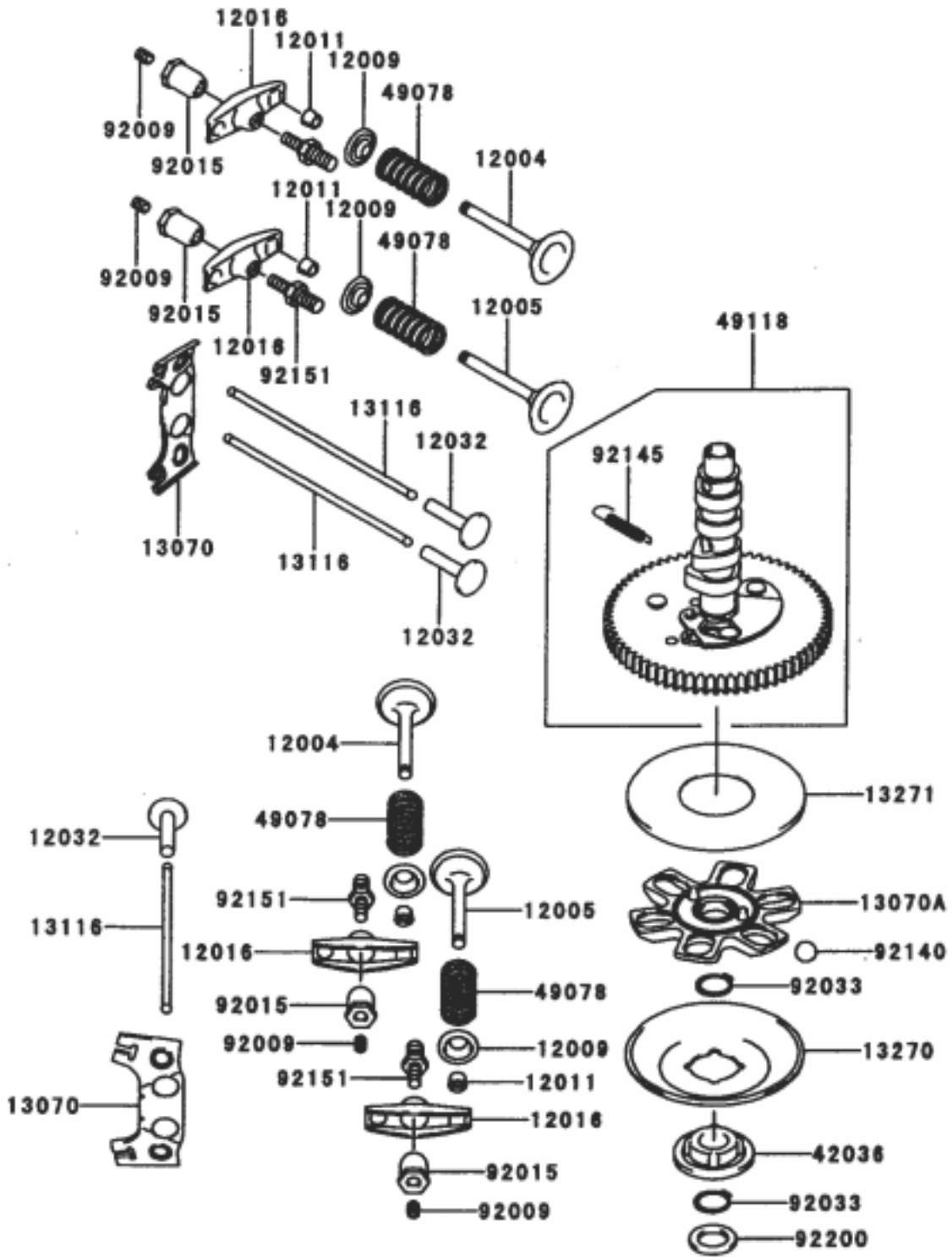
# Cylinder/Crankcase Assembly – Kawasaki FH601V-AS23



# Cylinder/Crankcase Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.   | Qty. | Description                 | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|-----------------------------|----------|----------|------|-------------|
| 11004    | 11004-7004 | 2    | Gasket-Head                 |          |          |      |             |
| 11008    | 11008-7003 | 1    | Head-Comp-Cylinder<br>No. 1 |          |          |      |             |
| 11008A   | 11008-7004 | 1    | Head-Comp-Cylinder<br>No. 2 |          |          |      |             |
| 11022    | 11022-7002 | 2    | Case-Rocker                 |          |          |      |             |
| 11060    | 11060-7012 | 1    | Gasket, CrankCase<br>Cover  |          |          |      |             |
| 11060A   | 11060-7013 | 2    | Gasket, Rocker Case         |          |          |      |             |
| 11060B   | 11060-7014 | 1    | Gasket, Breather            |          |          |      |             |
| 13271    | 13271-7006 | 1    | Plate                       |          |          |      |             |
| 14090    | 14091-7004 | 1    | Cover                       |          |          |      |             |
| 16126    | 16126-7001 | 1    | Valve                       |          |          |      |             |
| 49015    | 49015-6220 | 1    | Cover-Crankcase             |          |          |      |             |
| 49120    | 49120-6122 | 1    | Crankcase-Comp              |          |          |      |             |
| 92033    | 92033-7004 | 2    | Ring-Snap                   |          |          |      |             |
| 92043    | 92043-7001 | 6    | Pin                         |          |          |      |             |
| 92049    | 92049-7001 | 4    | Seal-Oil                    |          |          |      |             |
| 92049A   | 92049-7002 | 1    | Seal-Oil                    |          |          |      |             |
| 92049B   | 92049-7004 | 1    | Seal-Oil                    |          |          |      |             |
| 92049C   | 92049-7005 | 1    | Seal-Oil                    |          |          |      |             |
| 130      | 130B0612   | 4    | Bolt-Flanged                |          |          |      |             |
| 130A     | 130B0640   | 4    | Bolt-Flanged                |          |          |      |             |
| 130B     | 130T0850   | 18   | Bolt-Flanged                |          |          |      |             |
| 130C     | 130T0875   | 2    | Bolt-Flanged                |          |          |      |             |
| 172      | 172G0818   | 4    | Bolt-Stud                   |          |          |      |             |
| 214      | 214B0408   | 1    | Screw-Pan                   |          |          |      |             |

# Valve/Camshaft Assembly – Kawasaki FH601V-AS23



# Valve/Camshaft Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.   | Qty. | Description           |
|----------|------------|------|-----------------------|
| 12004    | 12004-7002 | 2    | Valve-Intake          |
| 12005    | 12005-7002 | 2    | Valve-Exhaust         |
| 12009    | 12009-7001 | 4    | Retainer-Valve Spring |
| 12011    | 12011-2056 | 8    | Collet                |
| 12016    | 12016-7002 | 4    | Arm-Rocker            |
| 12032    | 12032-7001 | 4    | Tappet                |
| 13070    | 13070-7003 | 2    | Guide                 |
| 13070A   | 13070-7004 | 1    | Guide                 |
| 13116    | 13116-7001 | 4    | Rod-Push              |
| 13270    | 13270-7002 | 1    | Plate                 |
| 13271    | 13271-7007 | 1    | Plate                 |
| 42036    | 42036-7001 | 1    | Sleeve                |
| 49078    | 49078-7002 | 4    | Spring-Engine Valve   |
| 49118    | 49118-7003 | 1    | Camshaft-Comp         |
| 92009    | 92009-2341 | 4    | Screw                 |
| 92015    | 92015-2253 | 4    | Nut                   |
| 92033    | 92033-7001 | 2    | Ring-Snap             |
| 92140    | 92140-7002 | 6    | Ball                  |
| 92145    | 92145-7001 | 1    | Spring                |
| 92151    | 92151-7001 | 4    | Bolt                  |
| 92200    | 92200-7001 | 1    | Washer                |

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

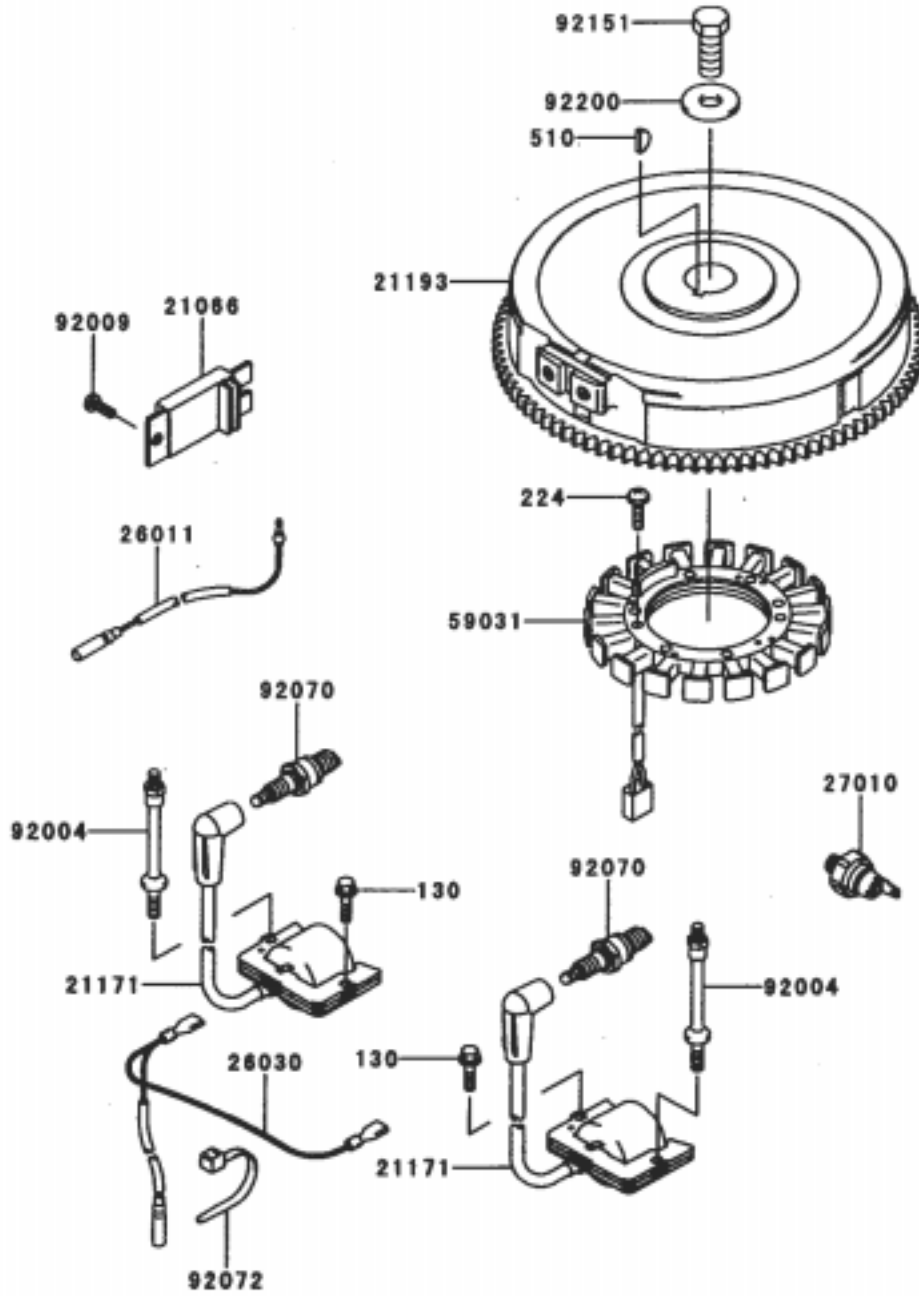


# Cooling Equipment Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.      | Qty. | Description          |
|----------|---------------|------|----------------------|
| 13270    | 13270-7007    | 1    | Plate                |
| 14037    | 14037-7008-9H | 1    | Screen               |
| 14091    | 14091-7002    | 1    | Cover                |
| 23062    | 23062-7005    | 1    | Bracket-Comp         |
| 49089    | 49089-7004    | 1    | Shroud-Engine        |
| 49089A   | 49089-7005    | 1    | Shroud-Engine        |
| 49089B   | 49089-7006    | 1    | Shroud-Engine        |
| 55020    | 55020-7002    | 1    | Guard                |
| 59041    | 59041-7003    | 1    | Fan                  |
| 59066    | 59066-7004    | 1    | Housing-Fan          |
| 92004    | 92004-2148    | 2    | Stud                 |
| 92015    | 92015-1170    | 4    | Nut                  |
| 92026    | 92026-7001    | 3    | Spacer, 6.2x7.9x5    |
| 92026A   | 92026-7003    | 1    | Spacer, 6.5x7.9x10.5 |
| 92026B   | 92026-7007    | 1    | Spacer               |
| 92151    | 92151-7009    | 3    | Bolt, 6x10           |
| 130      | 130B0612      | 5    | Bolt-Flanged         |
| 130A     | 130B0620      | 2    | Bolt-Flanged         |
| 130B     | 130B0816      | 1    | Bolt-Flanged         |

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

# Electric Equipment Assembly – Kawasaki FH601V-AS23

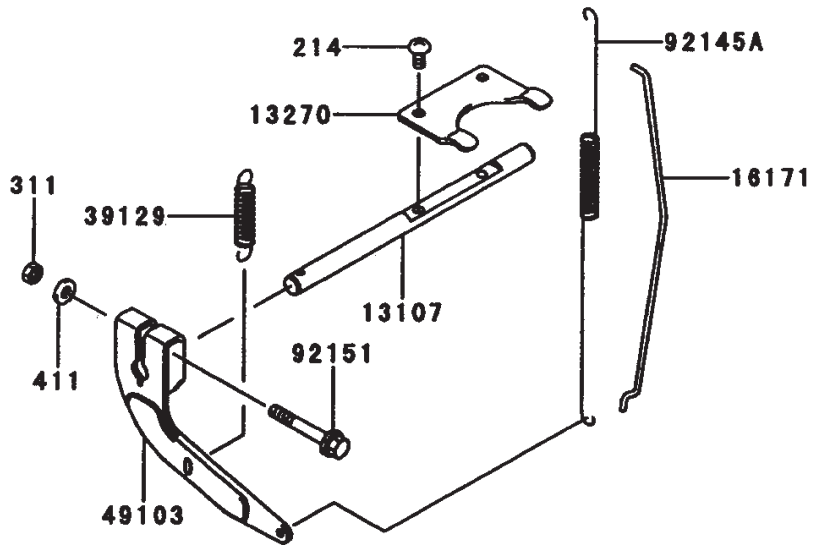
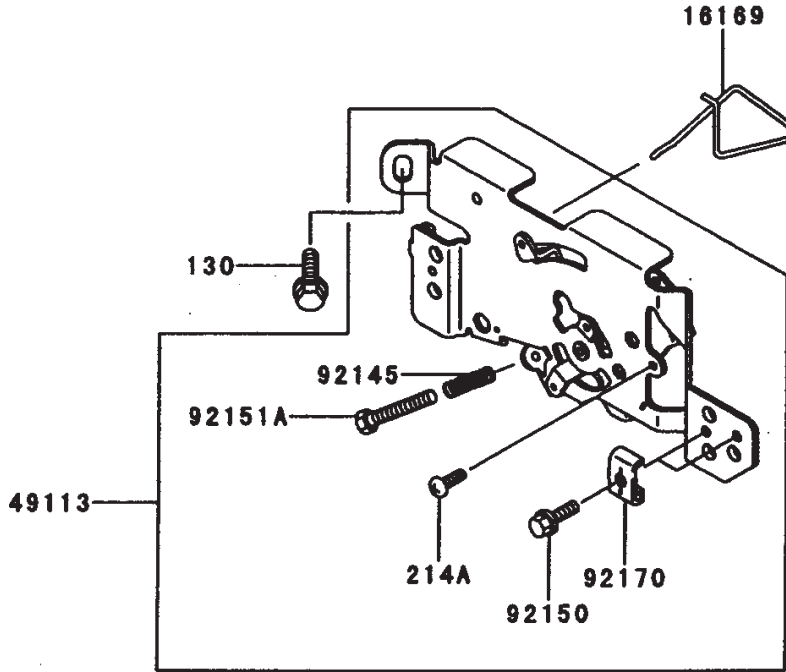


# Electric Equipment Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.   | Qty. | Description        |
|----------|------------|------|--------------------|
| 21066    | 21066-7003 | 1    | Regulator-Voltage  |
| 21171    | 21171-7001 | 2    | Coil-Assy-Ignition |
| 21193    | 21193-7002 | 1    | Flywheel-Assy      |
| 26011    | 26011-7008 | 1    | Wire-Lead          |
| 26030    | 26030-7002 | 1    | Harness            |
| 27010    | 27010-7001 | 1    | Switch             |
| 59031    | 59031-7001 | 1    | Coil-Charging      |
| 92004    | 92004-2147 | 2    | Stud               |
| 92009    | 92009-2308 | 1    | Screw              |
| 92070    | 92070-2088 | 2    | Plug-Spark,BPR5ES  |
| 92072    | 92072-7003 | 2    | Band               |
| 92151    | 92151-2097 | 1    | Bolt, 12x30        |
| 92220    | 92220-7002 | 1    | Washer             |
| 130      | 130B0620   | 1    | Bolt-Flanged       |
| 224      | 224B0520   | 4    | Screw-Pan-WP-Cros  |
| 510      | 510A5100   | 1    | Key-Woodruff       |

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

# Control Equipment Assembly – Kawasaki FH601V-AS23

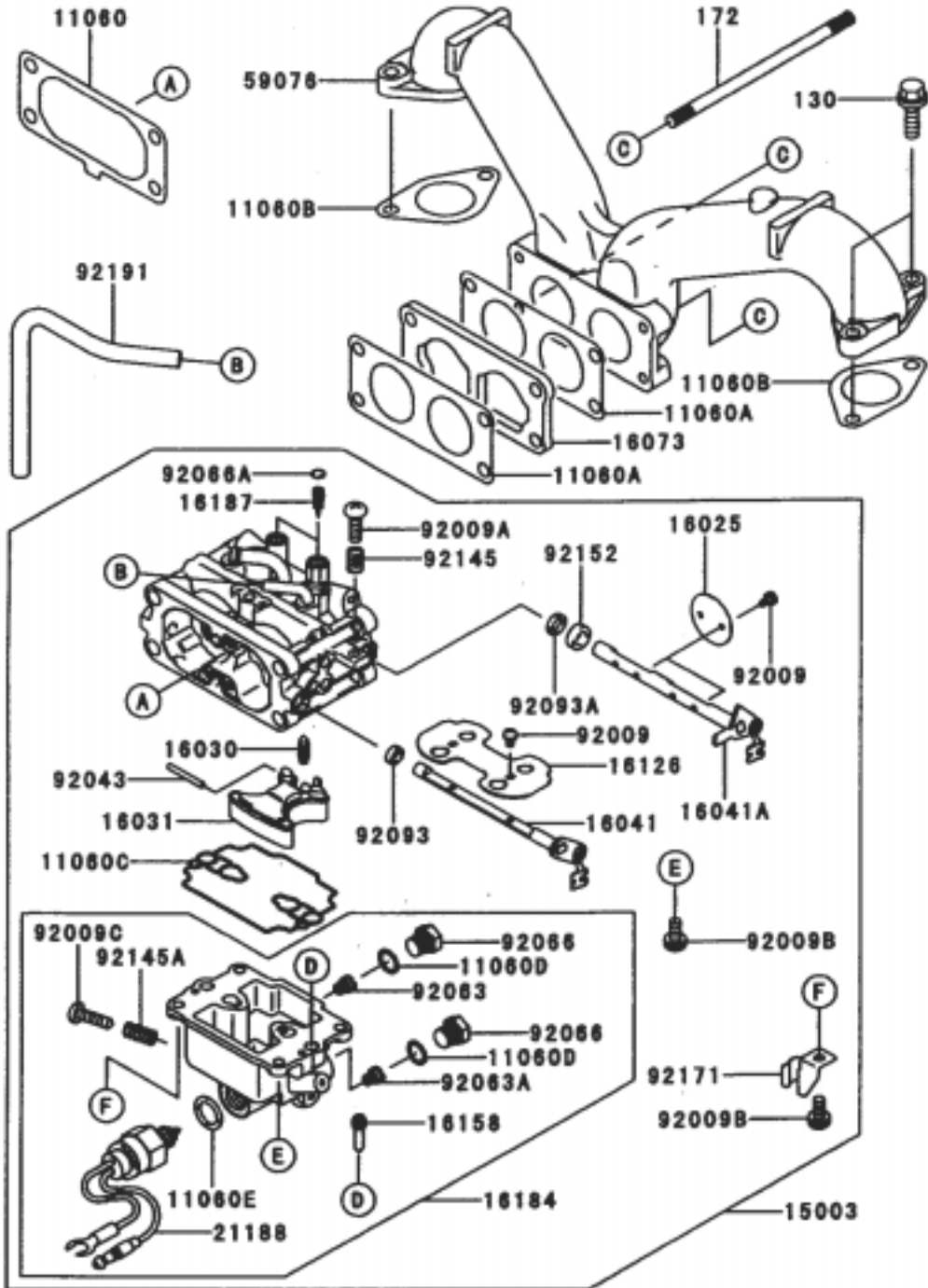


# Control Equipment Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.   | Qty. | Description        |
|----------|------------|------|--------------------|
| 13107    | 13107-7004 | 1    | Shaft              |
| 13270    | 13270-7006 | 1    | Plate              |
| 16169    | 16169-7003 | 1    | Link-Choke         |
| 16171    | 16171-7004 | 1    | Link               |
| 39129    | 39129-7004 | 1    | Spring-Governor    |
| 49103    | 49103-7001 | 1    | Arm-Governor       |
| 49113    | 49113-7007 | 1    | Panel-Comp-Control |
| 92145    | 92145-7005 | 1    | Spring             |
| 92145A   | 92145-7009 | 1    | Spring             |
| 92150    | 92150-2182 | 2    | Bolt, 5x18         |
| 92151    | 92151-7006 | 1    | Bolt, 6x30         |
| 92151A   | 92151-7014 | 1    | Bolt, 5x30         |
| 92170    | 92170-7001 | 2    | Clamp              |
| 130      | 130B0612   | 2    | Bolt-Flanged       |
| 214      | 214B0408   | 2    | Screw-Pan          |
| 214A     | 214B0412   | 1    | Screw-Pan          |
| 311      | 311B0600   | 1    | Nut-Hex            |
| 411      | 411B0600   | 1    | Washer-Plain       |

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

# Carburetor Assembly – Kawasaki FH601V-AS23

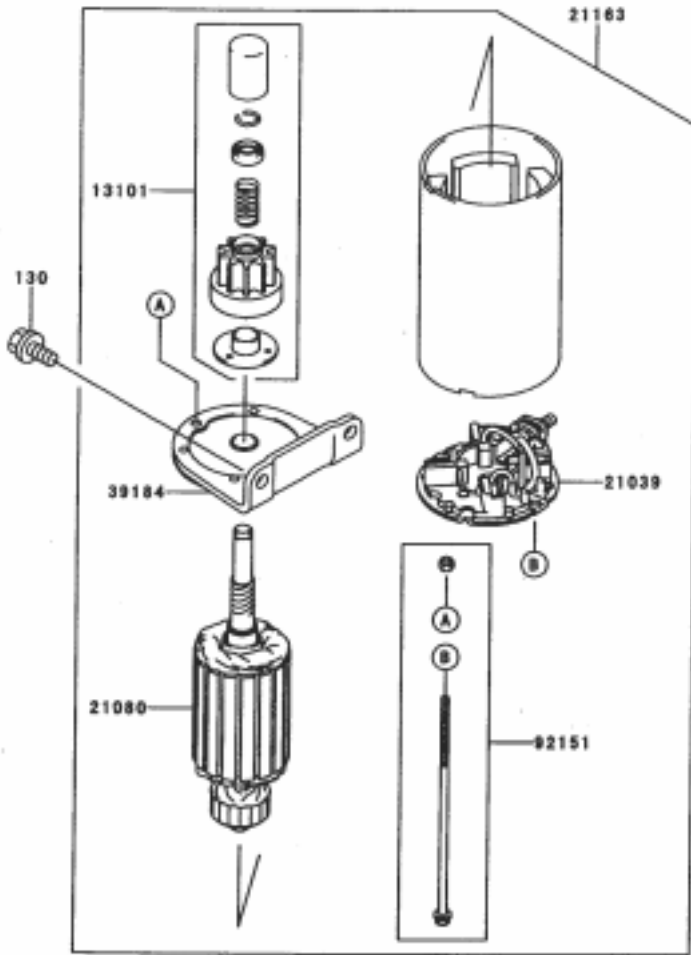


## Carburetor Assembly – Kawasaki FH601V–AS23

| Ref. No. | Part No.   | Qty. | Description                  | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|------------------------------|----------|----------|------|-------------|
| 11060    | 11060-7009 | 1    | Gasket, Air Filter           |          |          |      |             |
| 11060A   | 11060-7010 | 2    | Gasket, Carburetor           |          |          |      |             |
| 11060B   | 11060-7011 | 2    | Gasket                       |          |          |      |             |
| 11060C   | 11060-7018 | 1    | Gasket, Float Chamber        |          |          |      |             |
| 11060D   | 11060-7019 | 2    | Gasket, Main Plug            |          |          |      |             |
| 11060E   | 11060-7020 | 1    | Gasket, Solenoid             |          |          |      |             |
| 15003    | 15003-7001 | 1    | Carburetor-Assy              |          |          |      |             |
| 16025    | 16025-7001 | 2    | Valve-Throttle               |          |          |      |             |
| 16030    | 16030-7002 | 1    | Valve-Float                  |          |          |      |             |
| 16031    | 16031-7001 | 1    | Float                        |          |          |      |             |
| 16041    | 16041-7001 | 1    | Shaft-Carburetor,<br>Choke   |          |          |      |             |
| 16041A   | 16041-7002 | 1    | Shaft-Carburetor<br>Throttle |          |          |      |             |
| 16073    | 16073-7003 | 1    | Insulator                    |          |          |      |             |
| 16126    | 16126-7004 | 1    | Valve, Choke                 |          |          |      |             |
| 16158    | 16158-7002 | 2    | Jet-Slow, #60                |          |          |      |             |
| 16184    | 16184-7001 | 1    | Chamber-Assy-Float           |          |          |      |             |
| 16187    | 16187-7002 | 2    | Needle-Jet                   |          |          |      |             |
| 21188    | 21188-7001 | 1    | Solenoid                     |          |          |      |             |
| 59076    | 59076-7002 | 1    | Manifold-Intake              |          |          |      |             |
| 92009    | 92009-7003 | 6    | Screw                        |          |          |      |             |
| 92009A   | 92009-7004 | 1    | Screw                        |          |          |      |             |
| 92009B   | 92009-7005 | 4    | Screw                        |          |          |      |             |
| 92009C   | 92009-7006 | 1    | Screw, Drain                 |          |          |      |             |
| 92043    | 92043-7004 | 1    | Pin-Float                    |          |          |      |             |
| 92063    | 92063-7001 | 1    | Jet-Main, #104               |          |          |      |             |
| 92063A   | 92063-7002 | 1    | Jet-Main, #106               |          |          |      |             |
| 92066    | 92066-7008 | 2    | Plug, Main Jet               |          |          |      |             |
| 92066A   | 92066-7009 | 2    | Plug, Extension              |          |          |      |             |
| 92093    | 92093-7001 | 1    | Seal                         |          |          |      |             |
| 92093A   | 92093-7002 | 2    | Seal                         |          |          |      |             |
| 92145    | 92145-7010 | 1    | Spring                       |          |          |      |             |
| 92145A   | 92145-7011 | 1    | Spring                       |          |          |      |             |
| 92152    | 92152-7001 | 1    | Collar                       |          |          |      |             |
| 92171    | 92171-7001 | 1    | Clamp                        |          |          |      |             |
| 92191    | 92191-7010 | 1    | Tube                         |          |          |      |             |
| 130      | 130B0620   | 4    | Bolt-Flanged                 |          |          |      |             |
| 172      | 172G0105   | 2    | Bolt-Stud                    |          |          |      |             |







### Starter/Decal – Kawasaki FH601V-AS23

| Ref. No. | Part No.   | Qty. | Description      |
|----------|------------|------|------------------|
| 13101    | 13101-7001 | 1    | Gear-Assy        |
| 21039    | 21039-7001 | 1    | Brush            |
| 21080    | 21080-7001 | 1    | Armature         |
| 21163    | 21163-7001 | 1    | Starter-Electric |
| 39184    | 39184-7001 | 1    | Bracket-Assy     |
| 92151    | 92151-7013 | 1    | Bolt             |
| 130      | 130B0816   | 1    | Bolt-Flanged     |
| 56033    | 56033-7001 | 1    | Decal-Manual     |
| 56080    | 56080-7006 | 1    | Decal-Brand      |

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