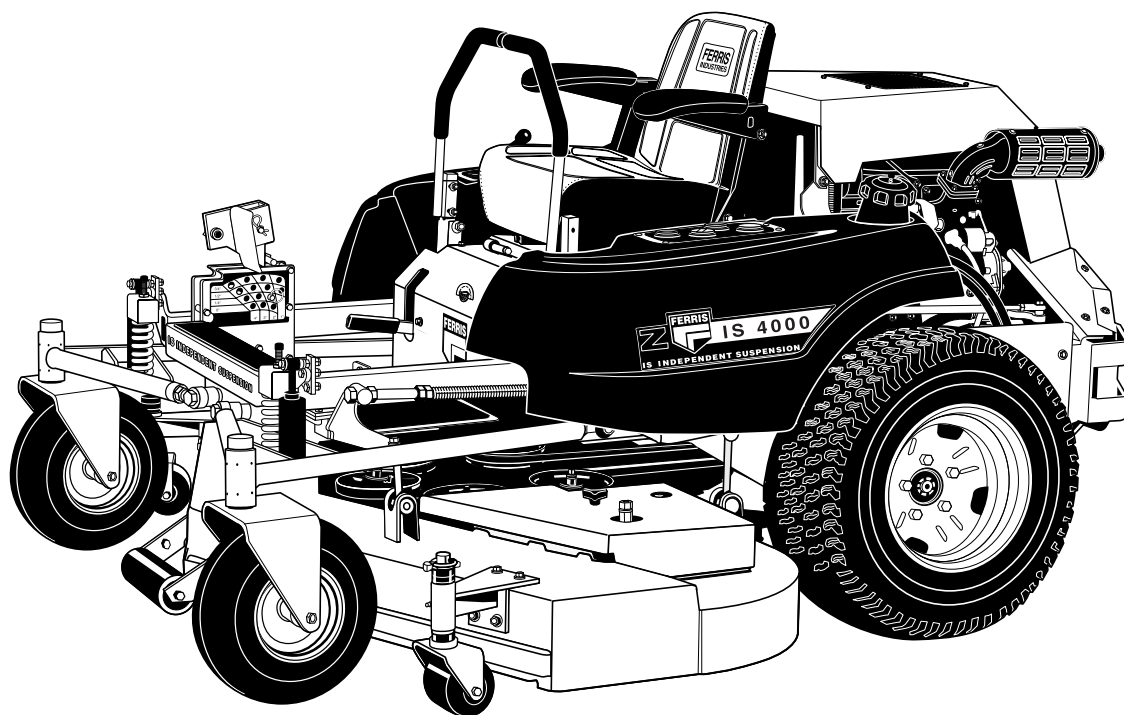




# ***PARTS MANUAL***

## ***IS4000Z Series***

### ***Zero-Turn Riding Mower***



| <b>Tractor:</b> | <b>Mower Deck:</b> |
|-----------------|--------------------|
| <b>Model</b>    | <b>Model</b>       |
| IS4000Z/D31     | 4000/61            |
| IS4000Z/KAV27   | 4000/72            |
| IS4000ZKAV27/61 |                    |

**Ferris Industries**  
5375 North Main Street  
Munnsville, NY 13409  
800-933-6175

**22471**  
Rev. No. 07  
Rev. Date: 9/2003  
TP 400-7003-07-4Z-F



## **Important Note**

Ferris Industries, Inc. has recently completed a voluntary recall of the IS4000Z/D31 tractor and 4000/72 mower deck to upgrade some components to current production standards. The machines involved with this upgrade will need to use different parts groups listed in this manual than what their serial number would designate. There are notations on the parts list pages affected by the upgrade, instructing to use a specific group or parts for replacements.

Below is a complete list of models and serial numbers affected by the upgrade.

### **IS4000Z/D31 Tractors:**

101-110, 112, 114, 115, 117, 118, 120-122, 124-135, 137, 139-166, 168-177, 179-188, 190-241, 244-261, 263-279, 281-306, 308-313, 315-351, 353-367, 369-375

### **4000/72 Mower Decks:**

101-109, 111, 113-115, 117, 120-122, 124-141, 143, 145-148, 150-190, 192-197, 199-218, 220-231, 233-243, 245, 246, 248-256, 258, 259, 261-271, 273-292, 294-298, 300-321, 323-344, 346-351, 353-359, 361-393, 395-398, 400, 402, 403, 405-414, 418, 420-422, 425-433

## **RIDER COMPONENTS**

|                                                                 |       |
|-----------------------------------------------------------------|-------|
| Main Frame and Front Suspension Group .....                     | 2     |
| Floor & Brake Cover Group .....                                 | 4     |
| Seat & Seat Mount Group .....                                   | 6     |
| Fuel Tank & Mount Group .....                                   | 8     |
| Fuel Supply Hose Group .....                                    | 10    |
| Instrument & Control Panel Group .....                          | 12    |
| Engine & Mount Groups .....                                     | 14    |
| Engine Accessories Group .....                                  | 20    |
| Pump Mount & Drive Group .....                                  | 22    |
| PTO Clutch & Anchor Group .....                                 | 28    |
| Gearbox & Mount Group .....                                     | 34    |
| Motion Control Group-Upper .....                                | 38    |
| Motion Control Group-Lower .....                                | 40    |
| Hood, Bumper & Shield Groups .....                              | 42    |
| Hydraulic Groups .....                                          | 46    |
| Parking Brake Group-Upper .....                                 | 50    |
| Parking Brake Group-Lower .....                                 | 52    |
| Rear Suspension Group .....                                     | 54    |
| Reservoir, Filter, Fuel Pump Mount, Battery & Alarm Group ..... | 56    |
| Deck Lift Group .....                                           | 58    |
| Wheels & Tires Group .....                                      | 60    |
| 31 HP Electrical Service Schematics .....                       | 62-66 |
| 27 HP Electrical Service Schematics .....                       | 67-71 |
| Decals - Brand, Model, Safety & Operation .....                 | 72    |

## **MOWER DECK COMPONENTS**

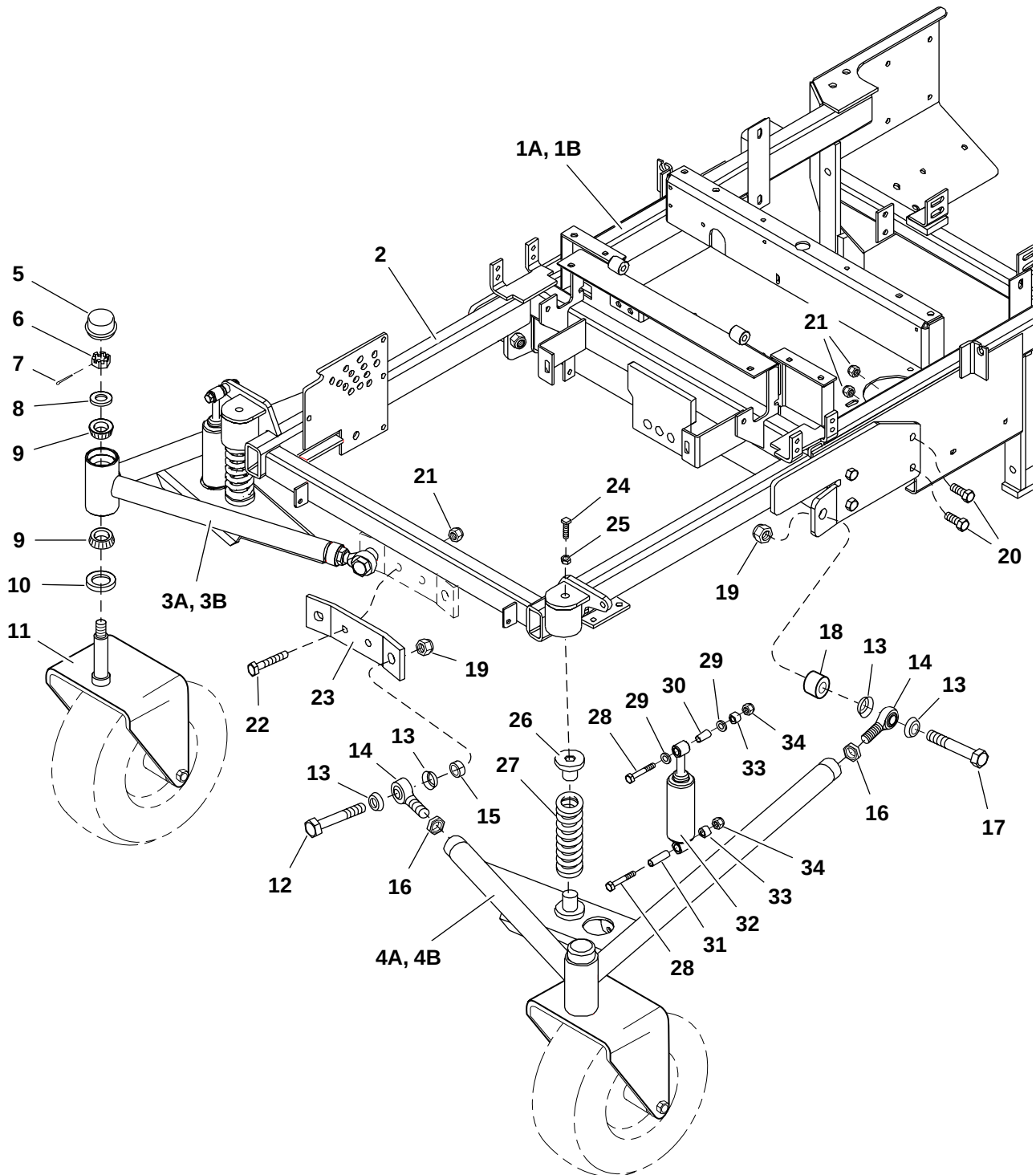
|                                                           |         |
|-----------------------------------------------------------|---------|
| 61" Mower Deck - Housing, Covers, Spindles & Blades ..... | 74 & 76 |
| 61" Mower Deck - Belt, Pulleys & Idler Arm .....          | 78 & 80 |
| 61" Mower Deck - Rollers & Casters .....                  | 82      |
| 72" Mower Deck - Housing, Covers, Spindles & Blades ..... | 84 & 86 |
| 72" Mower Deck - Belt, Pulleys & Idler Arm .....          | 88      |
| 72" Mower Deck - Rollers & Casters .....                  | 90 & 92 |
| 61" & 72" Mower Deck - Rear Mount Bars .....              | 94      |

## **REFERENCE INFORMATION:**

|                                  |                   |
|----------------------------------|-------------------|
| Torque Specification Chart ..... | Inside Back Cover |
|----------------------------------|-------------------|

## Main Frame & Front Suspension Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

## Main Frame & Front Suspension Group

| REF NO. | PART NO.  | QTY. | DESCRIPTION                                                         |
|---------|-----------|------|---------------------------------------------------------------------|
| 1A      | 46280     | 1    | MAIN FRAME (31hp model - serial no. 101-275)                        |
| 1B      | 46531     | 1    | MAIN FRAME (31hp model - serial no. 276 & up)<br>(27hp model - all) |
| 2       | 46366     | 1    | FRONT FRAME                                                         |
| 3A      | 46368     | 1    | SUSPENSION ARM-RH (31hp model - all)<br>(27hp model S/N 321 & up)   |
| 3B      | 46521     | 1    | SUSPENSION ARM-RH (27hp model S/N 101-320)                          |
| 4A      | 46367     | 1    | SUSPENSION ARM-LH (31hp model - all)<br>(27hp model S/N 321 & up)   |
| 4B      | 46520     | 1    | SUSPENSION ARM-LH (27hp model S/N 101-320)                          |
| 5       | 21073     | 2    | CAP                                                                 |
| 6       | 25104     | 2    | NUT, Hex, Slotted, 3/4-16                                           |
| 7       | 25203-10  | 2    | PIN, Cotter                                                         |
| 8       | 25160     | 2    | WASHER, 3/4                                                         |
| 9       | 20884     | 4    | BEARING, Tapered Roller                                             |
| 10      | 21072     | 2    | SEAL, Grease                                                        |
| 11      | 45769     | 2    | YOKE, Caster                                                        |
| 12      | 25265-24  | 2    | CAPSCREW, Hex Hd, 3/4-16 x 3                                        |
| 13      | 22111     | 8    | SEAL, Rod End                                                       |
| 14      | 22039     | 4    | BALL JOINT, 3/4-16                                                  |
| 15      | 46092     | 2    | SPACER, Short                                                       |
| 16      | 25093     | 4    | NUT, Hex, Jam, 3/4-16                                               |
| 17      | 25265-32  | 2    | CAPSCREW, Hex Hd, 3/4-16 x 4                                        |
| 18      | 46093     | 2    | SPACER, Long                                                        |
| 19      | 25284     | 4    | NUT, Hex, Nylon Lock, 3/4-16                                        |
| 20      | 25017-10  | 8    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/4                                    |
| 21      | 25098     | 10   | NUT, Hex, Nylon Lock, 1/2-20                                        |
| 22      | 25018-14  | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-3/4                                    |
| 23      | 46060     | 1    | PLATE, Suspension Arm Support                                       |
| 24      | 25315     | 2    | SET SCREW, Square Hd, 1/2-13 x 2-1/2                                |
| 25      | 25301     | 1    | NUT, Hex, Jam, 1/2-13                                               |
| 26      | 45898     | 2    | SPRING RETAINER                                                     |
| 27      | 22323     | 2    | SPRING, Suspension                                                  |
| 28      | 25013-20  | 4    | CAPSCREW, Hex Hd, 3-8/16 x 2-1/2                                    |
| 29      | 25156     | 4    | WASHER, 3/8                                                         |
| 30      | 44959-009 | 2    | MOUNT, Shock                                                        |
| 31      | 44992-009 | 2    | SPACER, Lift Plate                                                  |
| 32      | 21687     | 2    | DAMPENER                                                            |
| 33      | 44933-009 | 4    | SPACER                                                              |
| 34      | 25100     | 4    | NUT, Hex, Side Lock, 3/8-16                                         |

### Footnotes:

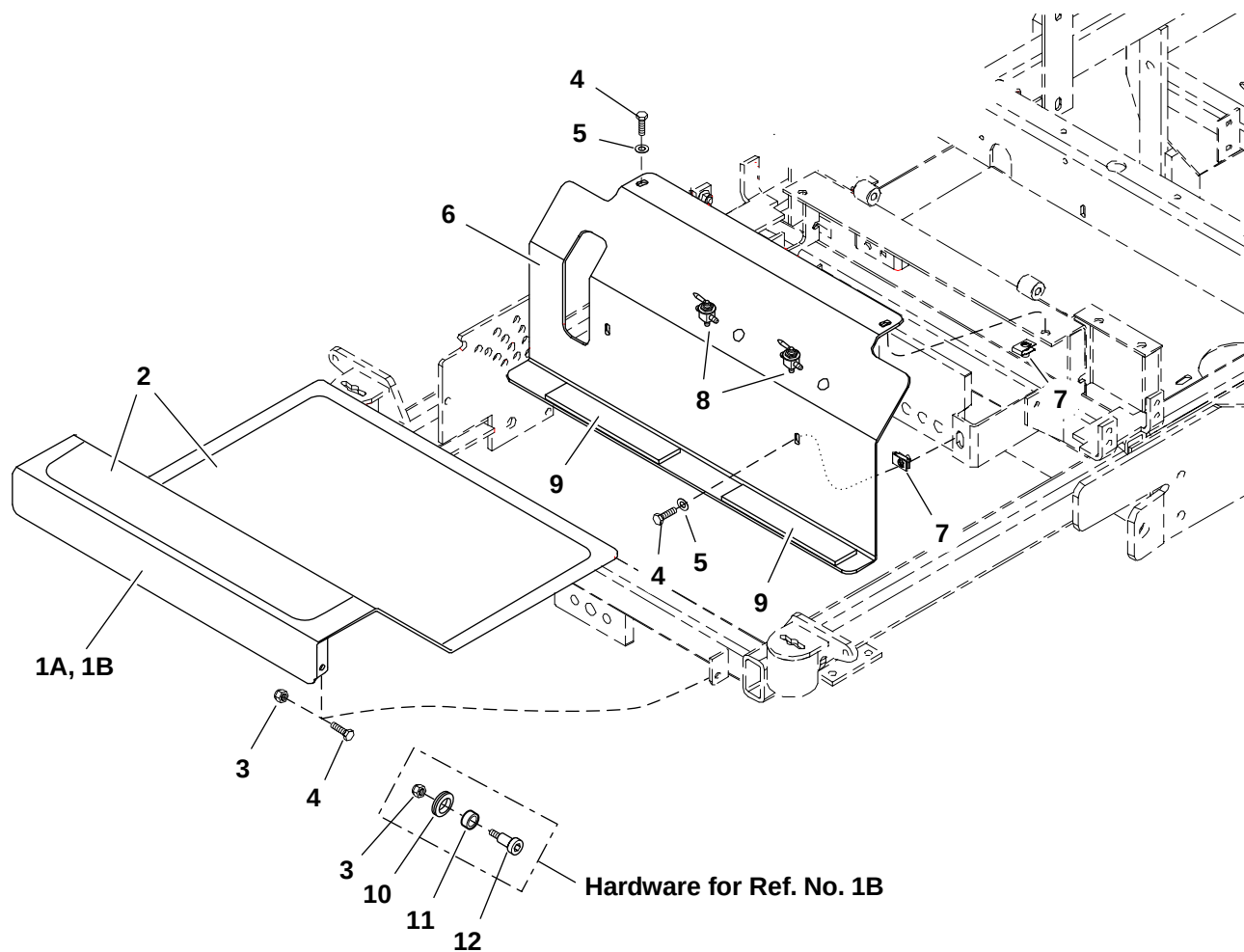
Ref. No. 1B used on all IS4000Z/KAV27

### The above parts group applies to the following Model Nos.:

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Floor & Brake Cover Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider  
ISZ 27 HP Kawasaki Rider

### ***Floor & Brake Cover Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                                                                               |
|---------|----------|------|-------------------------------------------------------------------------------------------|
| 1A      | 46381    | 1    | FLOOR PAN<br>(IS4000Z/D31 - serial no. 101-315)<br>(IS4000Z/KAV27 - serial no. 101-120)   |
| 1B      | 46670    | 1    | FLOOR PAN<br>(IS4000Z/D31 - serial no. 316 & up)<br>(IS4000Z/KAV27 - serial no. 121 & up) |
| 2       | 44873    | 2    | SAFETY WALK                                                                               |
| 3       | 25057    | 2    | NUT, Hex, Nylon Lock, 5/16-18                                                             |
| 4       | 25011-8  | 6    | CAPSCREW, Hex Hd, 5/16-18 x 1                                                             |
| 5       | 25155    | 4    | WASHER, 5/16                                                                              |
| 6       | 46230    | 1    | BRAKE COVER PANEL                                                                         |
| 7       | 22308    | 4    | BODY CLIP, 5/16-18                                                                        |
| 8       | 22030    | 2    | VALVE, Fuel Shut Off                                                                      |
| 9       | 21877    | 2    | RUBBER PAD                                                                                |
| 10      | 22816    | 2    | GROMMET                                                                                   |
| 11      | 41600    | 2    | SPACER                                                                                    |
| 12      | 25340    | 2    | SHOULDER BOLT, 3/8 x 5/8                                                                  |

### **Footnotes:**

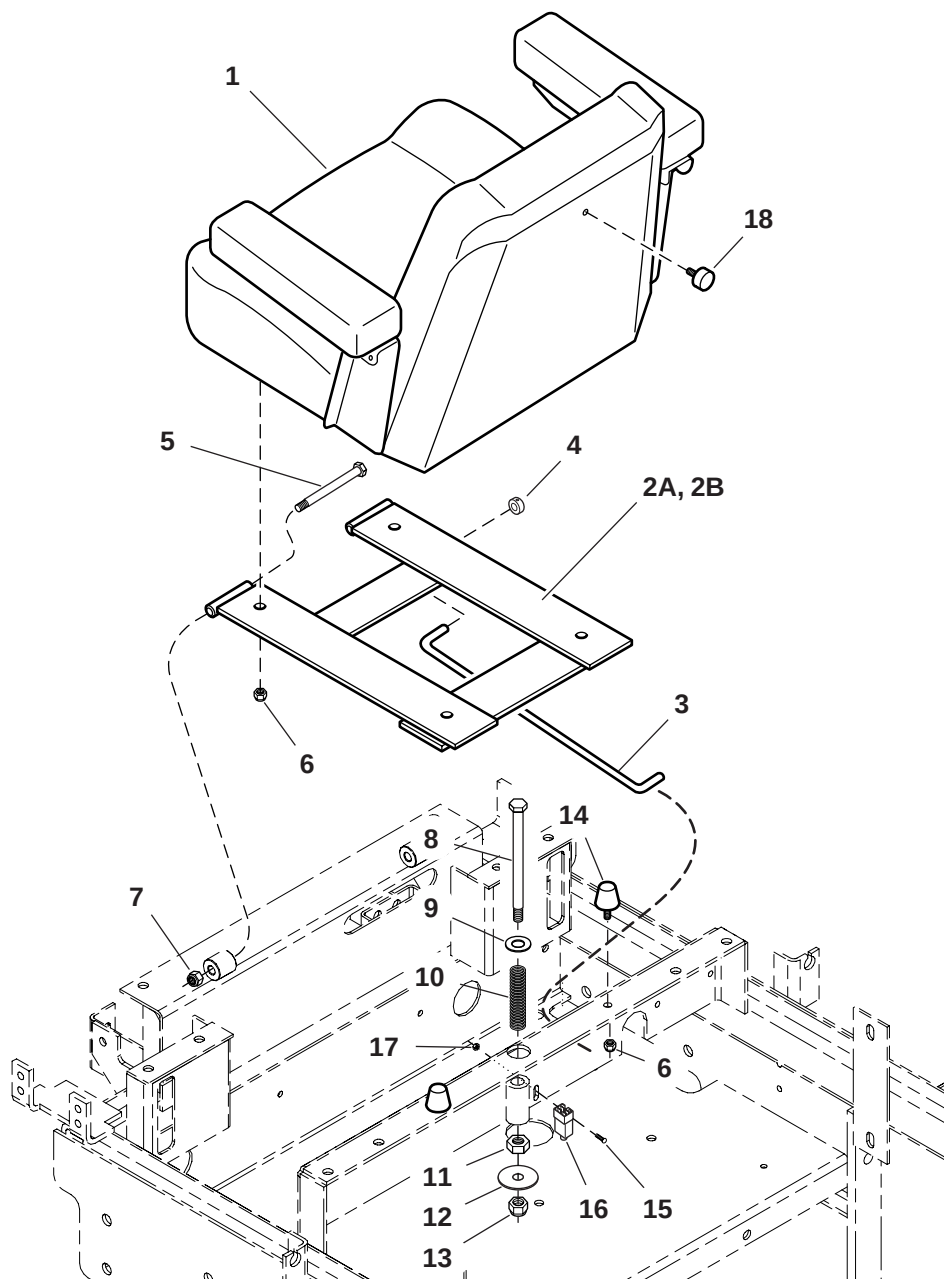
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#### **The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Seat & Seat Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider



### **Seat & Seat Mount Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                         |
|---------|----------|------|-----------------------------------------------------|
| 1       | 22031    | 1    | SEAT, Gray (complete)                               |
| *       | 22031-2  | 1    | CUSHION, Bottom, Gray                               |
| *       | 22031-4  | 1    | CUSHION, Back, Gray                                 |
| *       | 22440    | 2    | ARM REST, Black                                     |
| *       | 20784-3  | 1    | SEAT ADJUSTER RAILS (Set)                           |
| 2A      | 46299    | 1    | SEAT MOUNT (IS4000Z/D31, serial no. 101-175)        |
| 2B      | 46554    | 1    | SEAT MOUNT (IS4000Z/D31, serial no. 175 & up)       |
| 3       | 46557    | 1    | SEAT STOP ROD (IS4000Z/D31, serial no. 276 & up)    |
| 4       | 20047    | 1    | COLLAR, 5/16 Set (IS4000Z/D31, serial no. 276 & up) |
| 5       | 25013-32 | 2    | CAPSCREW, Hex Hd, 3/8-16 x 4                        |
| 6       | 25057    | 6    | NUT, Hex, Nylon Lock, 5/16-18                       |
| 7       | 25096    | 2    | NUT, Hex, Nylon Lock, 3/8-16                        |
| 8       | 25017-52 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 6-1/2                    |
| 9       | 25158    | 1    | WASHER, 1/2                                         |
| 10      | 22597    | 1    | SPRING, Compression                                 |
| 11      | 25301    | 1    | NUT, Hex, Jam, 1/2-13                               |
| 12      | 44677    | 1    | WASHER                                              |
| 13      | 25056    | 1    | NUT, Hex, Nylon Lock, 1/2-13                        |
| 14      | 22612    | 2    | RUBBER BUMPER                                       |
| 15      | 25270    | 2    | SCREW, #10-24 x 1                                   |
| 16      | 22094    | 1    | SWITCH, NO/NO (31hp model ONLY)                     |
| *       | 22095    | 1    | SWITCH, NO/NC (27hp model ONLY)                     |
| 17      | 25029    | 2    | NUT, Hex, #10-24                                    |
| 18      | 22673    | 1    | RUBBER BUMPER                                       |

#### **Footnotes:**

Ref. No. 2B, 3 & 4 used on all IS4000Z/KAV27

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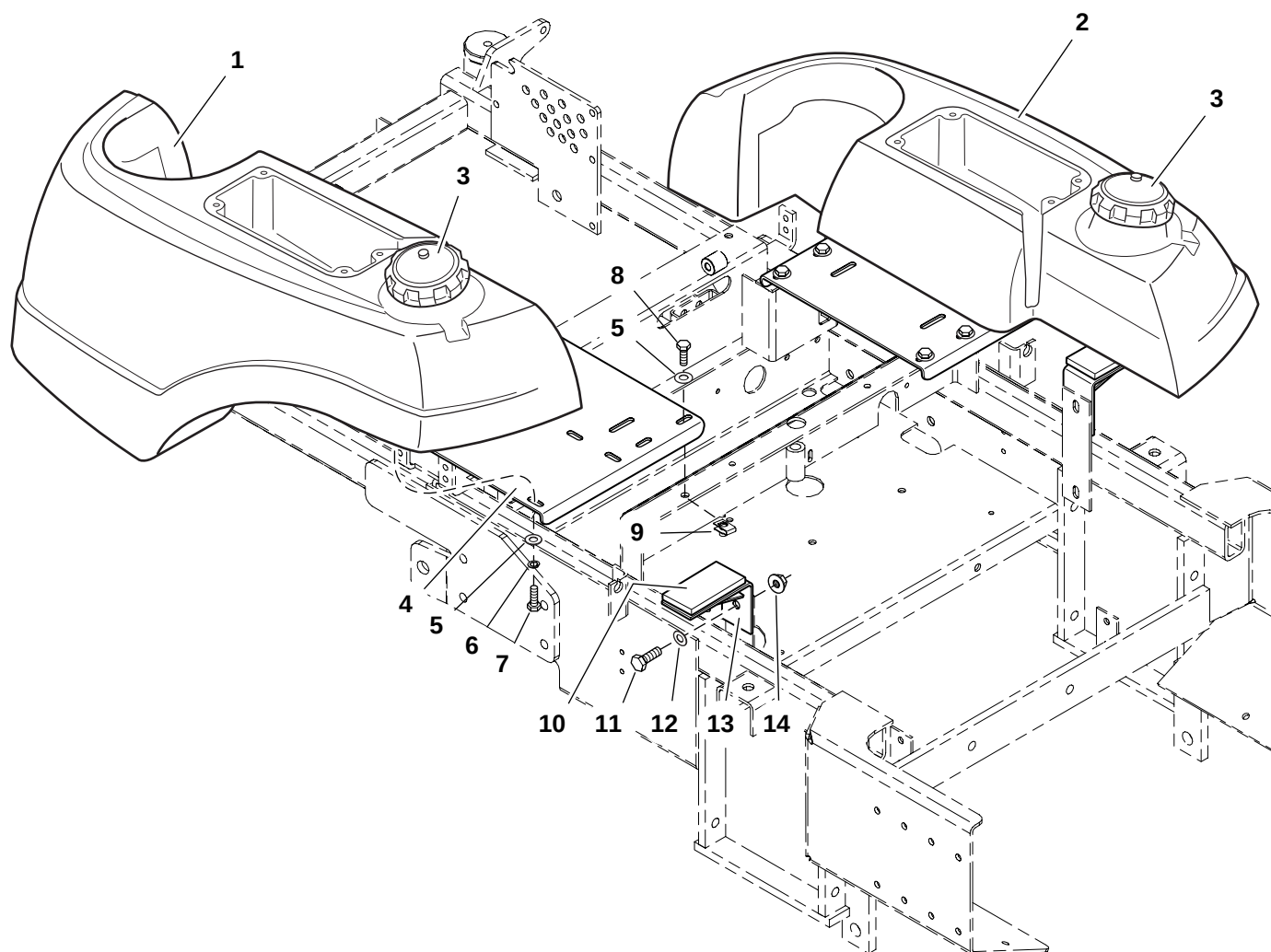
#### **The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Fuel Tank & Mount Group

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NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



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The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

### ***Fuel Tank & Mount Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1       | 46155    | 1    | FUEL TANK, LH                     |
| *       | 46273    | 1    | Filler Neck                       |
| 2       | 46156    | 1    | FUEL TANK, RH                     |
| *       | 46273    | 1    | Filler Neck                       |
| 3       | 22158    | 2    | FUEL TANK CAP                     |
| 4       | 46200    | 2    | PLATE, Fuel Tank Mount            |
| 5       | 25155    | 16   | WASHER, 5/16                      |
| 6       | 25170    | 8    | WASHER, Lock, 5/16                |
| 7       | 25011-6  | 8    | CAPSCREW, Hex Hd, 5/16-18 x 3/4   |
| 8       | 25011-8  | 8    | CAPSCREW, Hex Hd, 5/16-18 x 1     |
| 9       | 25308    | 8    | BODY CLIP, 5/16-18                |
| 10      | 21877    | 2    | RUBBER PAD                        |
| 11      | 25013-8  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1      |
| 12      | 25156    | 2    | WASHER, 3/8                       |
| 13      | 46474    | 2    | SUPPORT, Fuel Tank                |
| 14      | 25128    | 2    | NUT, Hex, Serrated Flange, 3/8-16 |

### **Footnotes:**

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**The above parts group applies to the following Model Nos.:**

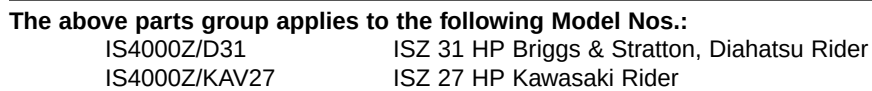
IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**



### ***Fuel Supply Hose Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION              |
|---------|----------|------|--------------------------|
| 1       | 50831-44 | 2    | HOSE, 44"                |
| 2       | 22030    | 2    | VALVE, Fuel Shut Off     |
| 3       | 20835    | 14   | CLAMP, Hose (31hp model) |
| *       | 20835    | 10   | CLAMP, Hose (27hp model) |
| 4       | 50831-8  | 1    | HOSE, 8"                 |
| 5       | 50831-48 | 1    | HOSE, 48"                |
| 6       | 50831-52 | 1    | HOSE, 52"                |
| 7       | 50833-43 | 2    | WIRE LOOM, 43"           |
| 8       | 50833-51 | 1    | WIRE LOOM, 51"           |
| 9       | 50831-47 | 1    | WIRE LOOM, 47"           |
| 10      | *        | 1    | FUEL FILTER              |
| 11      | 50831-2  | 1    | HOSE, 2"                 |
| 12      | *        | 1    | FUEL PUMP                |
| 13      | 50831-24 | 1    | HOSE, 24"                |

#### **Footnotes:**

\* See you local Briggs & Stratton Dealer for service parts.

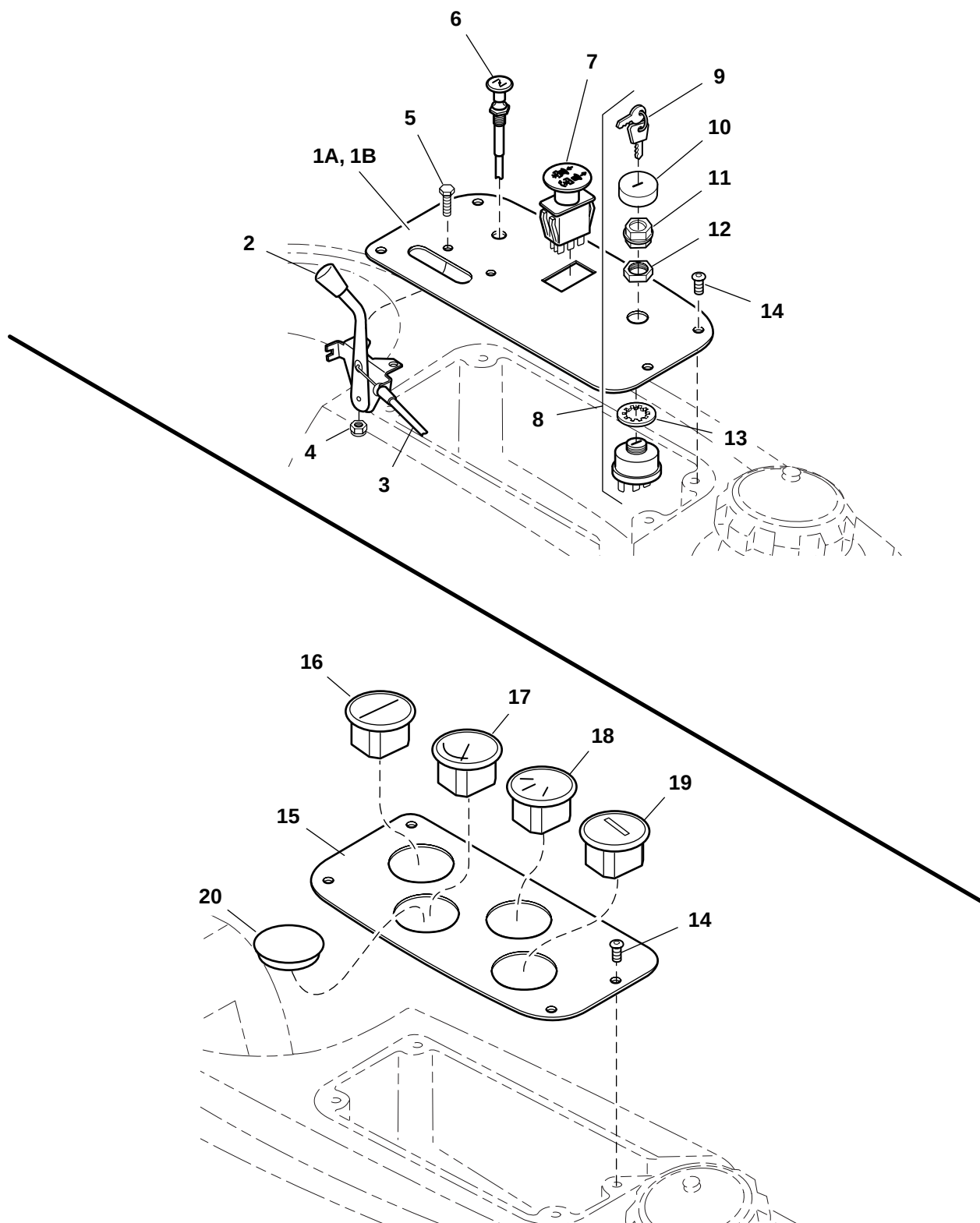
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#### **The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Instrument & Control Panel Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

### ***Instrument & Control Panel Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                                             |
|---------|----------|------|---------------------------------------------------------|
| 1A      | 46600    | 1    | CONTROL PANEL-RH                                        |
| 1B      | 46254    | 1    | CONTROL PANEL-RH (IS4000Z/D31, serial no. 101-275 only) |
| 2       | 46360    | 1    | HANDLE, Throttle Control                                |
| 3       | 46392    | 1    | CABLE, Throttle Control (31hp model)                    |
| *       | 46551    | 1    | CABLE, Throttle Control (27hp model)                    |
| 4       | 25095    | 2    | NUT, Hex, Nylon Lock, 1/4-20                            |
| 5       | 25010-6  | 2    | CAPSCREW, Hex Hd, 1/4-20 x 3/4                          |
| 6       | 46361    | 1    | CABLE, Choke Control (31hp model)                       |
| *       | 46501    | 1    | CABLE, Choke Control (27hp model)                       |
| 7       | 22180    | 1    | SWITCH, PTO                                             |
| 8       | 20927    | 1    | SWITCH, Ignition, complete (includes Ref 9-13)          |
| 9       | 22789    | 1    | KEY, Ignition, Molded (set of 2)                        |
| 10      | 22790    | 1    | COVER                                                   |
| 11      | 22791    | 1    | PLASTIC NUT                                             |
| 12      | 22792    | 1    | STEEL NUT                                               |
| 13      | 22793    | 1    | WASHER                                                  |
| 14      | 25299-4  | 8    | SCREW, Allen Head, 1/4-20 x 1/2                         |
| 15      | 46256    | 1    | GAUGE PANEL                                             |
| 16      | 22593    | 1    | GAUGE, Warning, Oil/Temp                                |
| 17      | 22483    | 1    | GAUGE, Water Temperature (31hp model only)              |
| 18      | 22387    | 1    | GAUGE, Voltmeter                                        |
| 19      | 20060    | 1    | HOURLMETER                                              |
| 20      | 22800    | 1    | HOLE PLUG (27hp model only)                             |

#### **Footnotes:**

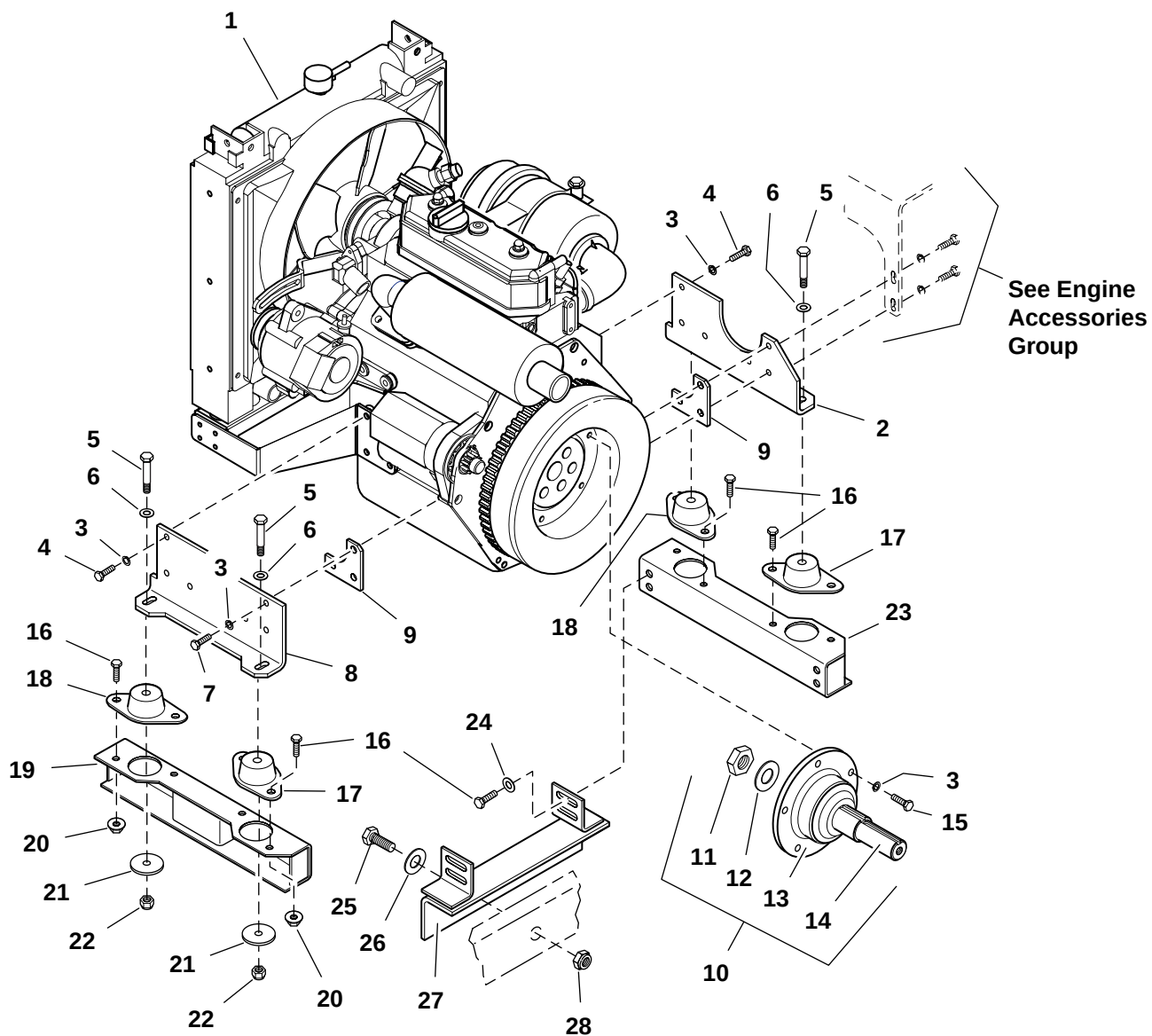
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#### **The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Engine & Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)



## Engine & Mount Group

| REF NO. | PART NO. | QTY. | DESCRIPTION                                         |
|---------|----------|------|-----------------------------------------------------|
| 1       | 22370    | 1    | ENGINE, Briggs & Stratton, Gas, Model 950 G         |
| 2       | 46210    | 1    | ENGINE MOUNT-RH                                     |
| 3       | 25170    | 15   | WASHER, Lock, 5/16                                  |
| 4       | 25245    | 6    | CAPSCREW, Hex Hd, M8 x 30mm                         |
| 5       | 25013-20 | 4    | CAPSCREW, Hex Hd, 3/8-16 x 2-1/2                    |
| 6       | 25156    | 4    | WASHER, 3/8                                         |
| 7       | 25237    | 4    | CAPSCREW, Hex Hd, M8 x 25mm                         |
| 8       | 46209    | 1    | ENGINE MOUNT-LH                                     |
| 9       | 46252    | 2    | SPACER, Engine Mount                                |
| 10      | 46418    | 1    | HUB & SHAFT ASSEMBLY, complete (includes Ref 11-14) |
| 11      | 25093    | 1    | NUT, Hex, Jam, 3/4-16                               |
| 12      | 25160    | 1    | WASHER, 3/4                                         |
| 13      | 45809    | 1    | HUB (serial no. 101-175)                            |
| *       | 46268    | 1    | HUB (serial no. 176 & up)                           |
| 14      | 45808    | 1    | STUB SHAFT                                          |
| 15      | 25249    | 5    | CAPSCREW, Hex Hd, M8 x 20mm                         |
| 16      | 25011-8  | 16   | CAPSCREW, Hex Hd, 5/16-18 x 1                       |
| 17      | 22573    | 2    | ENGINE MOUNT Rubber, #150 (serial no. 101-315)      |
| *       | 22804    | 2    | ENGINE MOUNT Rubber, #215 (serial no. 316 & up)     |
| 18      | 22572    | 2    | ENGINE MOUNT, Rubber, #50 (serial no. 101-315)      |
| *       | 22573    | 2    | ENGINE MOUNT, Rubber, #150 (serial no. 316 & up)    |
| 19      | 46213    | 1    | ENGINE MOUNT RAIL-LH                                |
| 20      | 25127    | 8    | NUT, Hex, Serrated Flange, 5/16-18                  |
| 21      | 22574    | 4    | WASHER, Iso Mount                                   |
| 22      | 25096    | 4    | NUT, Hex, Nylon Lock, 3/8-16                        |
| 23      | 46214    | 1    | ENGINE MOUNT RAIL-RH                                |
| 24      | 25155    | 8    | WASHER, 5/16                                        |
| 25      | 25018-12 | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/2                    |
| 26      | 25158    | 2    | WASHER, 1/2                                         |
| 27      | 46619    | 1    | MOUNT, Engine                                       |
| 28      | 25098    | 2    | NUT, Hex, Nylon Lock, 1/2-20                        |

### IMPORTANT NOTE:

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Engine & Mount Group listed on page 16 & 17. Refer to the serial number list on the inside cover to determine if your machine was affected.

### Footnotes:

Ref. No. 25-28 used on serial no. 176 & up

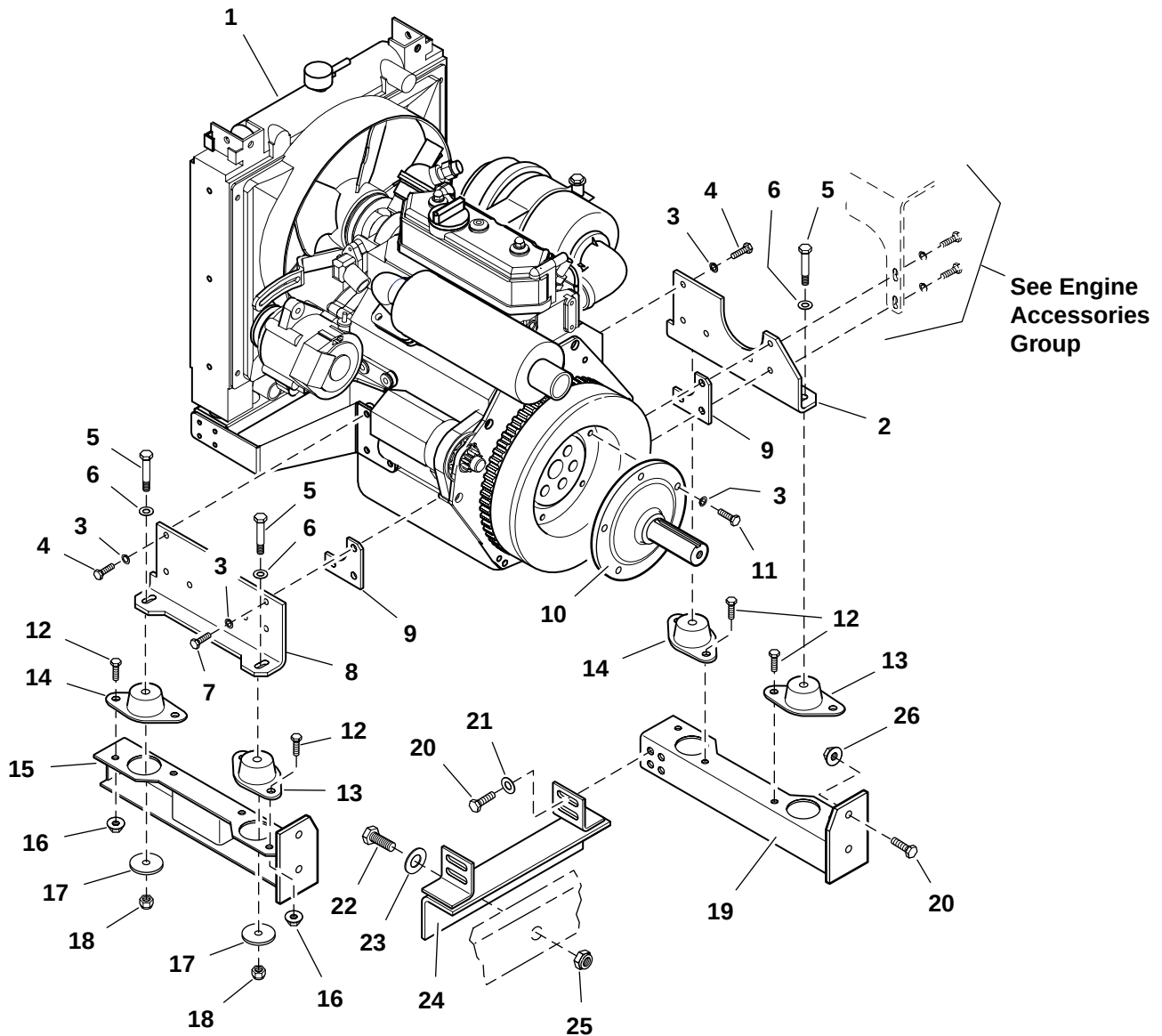
### The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)

## Engine & Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

**Engine & Mount Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                |
|---------|----------|------|--------------------------------------------|
| 1       | 22370    | 1    | ENGINE, Briggs & Stratton Gas, Model 950 G |
| 2       | 46908    | 1    | ENGINE MOUNT-RH                            |
| 3       | 25170    | 15   | WASHER, Lock, 5/16                         |
| 4       | 25245    | 6    | CAPSCREW, Hex Hd, M8 x 30mm                |
| 5       | 25013-20 | 4    | CAPSCREW, Hex Hd, 3/8-16 x 2-1/2           |
| 6       | 25156    | 4    | WASHER, 3/8                                |
| 7       | 25237    | 4    | CAPSCREW, Hex Hd, M8 x 25mm                |
| 8       | 46907    | 1    | ENGINE MOUNT-LH                            |
| 9       | 46252    | 2    | SPACER, Engine Mount                       |
| 10      | 22370-8  | 1    | STUB SHAFT                                 |
| 11      | 25249    | 5    | CAPSCREW, Hex Hd, M8 x 20mm                |
| 12      | 25011-8  | 8    | CAPSCREW, Hex Hd, 5/16-18 x 1              |
| 13      | 22804    | 2    | ENGINE MOUNT Rubber, #215                  |
| 14      | 22573    | 2    | ENGINE MOUNT, Rubber, #150                 |
| 15      | 46913    | 1    | ENGINE MOUNT RAIL-LH                       |
| 16      | 25127    | 8    | NUT, Hex, Serrated Flange, 5/16-18         |
| 17      | 22574    | 4    | WASHER, Iso Mount                          |
| 18      | 25096    | 4    | NUT, Hex, Nylon Lock, 3/8-16               |
| 19      | 46914    | 1    | ENGINE MOUNT RAIL-RH                       |
| 20      | 25013-8  | 8    | CAPSCREW, Hex Hd, 3/8-16 x 1               |
| 21      | 25156    | 4    | WASHER, 3/8                                |
| 22      | 25018-12 | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/2           |
| 23      | 25158    | 2    | WASHER, 1/2                                |
| 24      | 46619    | 1    | MOUNT, Engine                              |
| 25      | 25098    | 2    | NUT, Hex, Nylon Lock, 1/2-20               |
| 26      | 25128    | 4    | NUT, Hex, Serrated Flange, 3/8-16          |

**Footnotes:**

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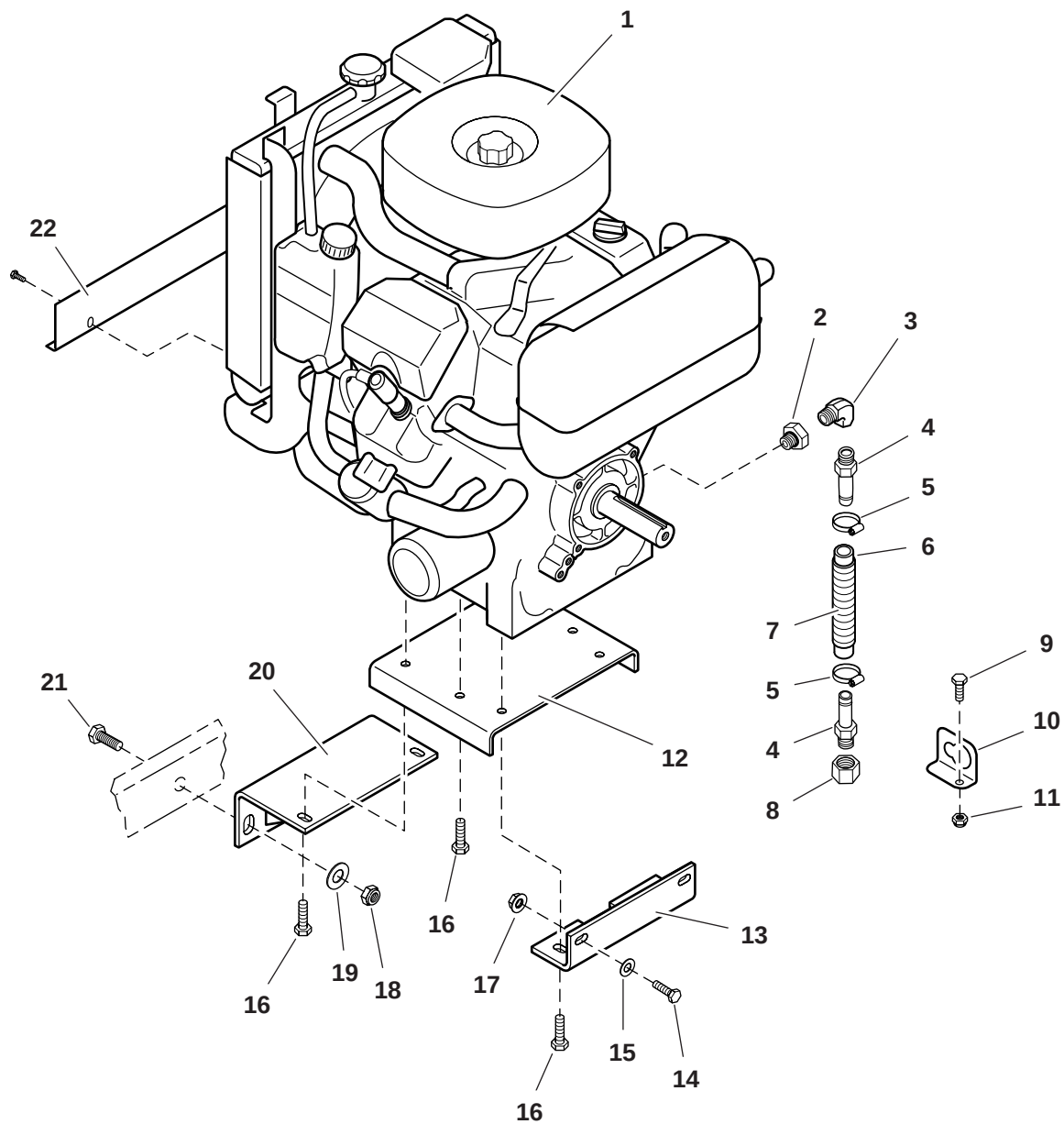
The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

## Engine & Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

## Engine & Mount Group

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1       | 22669    | 1    | ENGINE, Kawasaki Model FD-750V    |
| 2       | 22801    | 1    | FITTING, Oil Drain Adapter        |
| 3       | 22802    | 1    | FITTING, 3/8NPT Elbow             |
| 4       | 21372    | 2    | FITTING, 3/8NPT - 1/2 Str.        |
| 5       | 21392    | 2    | HOSE CLAMP                        |
| 6       | 50857-7  | 1    | HOSE, 7"                          |
| 7       | 50862-6  | 1    | WIRE LOOM, 6"                     |
| 8       | 21466    | 1    | CAP, 3/8NPT                       |
| 9       | 25011-6  | 1    | CAPSCREW, Hex Hd, 5/16-18 x 3/4   |
| 10      | 46166    | 1    | ANCHOR, Oil Drain                 |
| 11      | 25057    | 1    | NUT, Hex, Nylon Lock, 5/16-18     |
| 12      | 46506    | 1    | PLATE, Engine Mount               |
| 13      | 46507    | 1    | SUPPORT, Engine Plate             |
| 14      | 25013-12 | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4  |
| 15      | 25156    | 2    | WASHER, 3/8                       |
| 16      | 25329    | 6    | CAPSCREW, Hex Hd, M10 x 25mm      |
| 17      | 25128    | 2    | NUT, Hex, Serrated Flange, 3/8-16 |
| 18      | 25098    | 2    | NUT, Hex, Nylon Lock, 1/2-20      |
| 19      | 25158    | 2    | WASHER, 1/2                       |
| 20      | 46630    | 1    | MOUNT, Engine Plate               |
| 21      | 25018-12 | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/4  |
| 22      | 46529    | 1    | BAFFLE, Radiator                  |

### Footnotes:

See you local Kawasaki Engine Dealer for service parts.

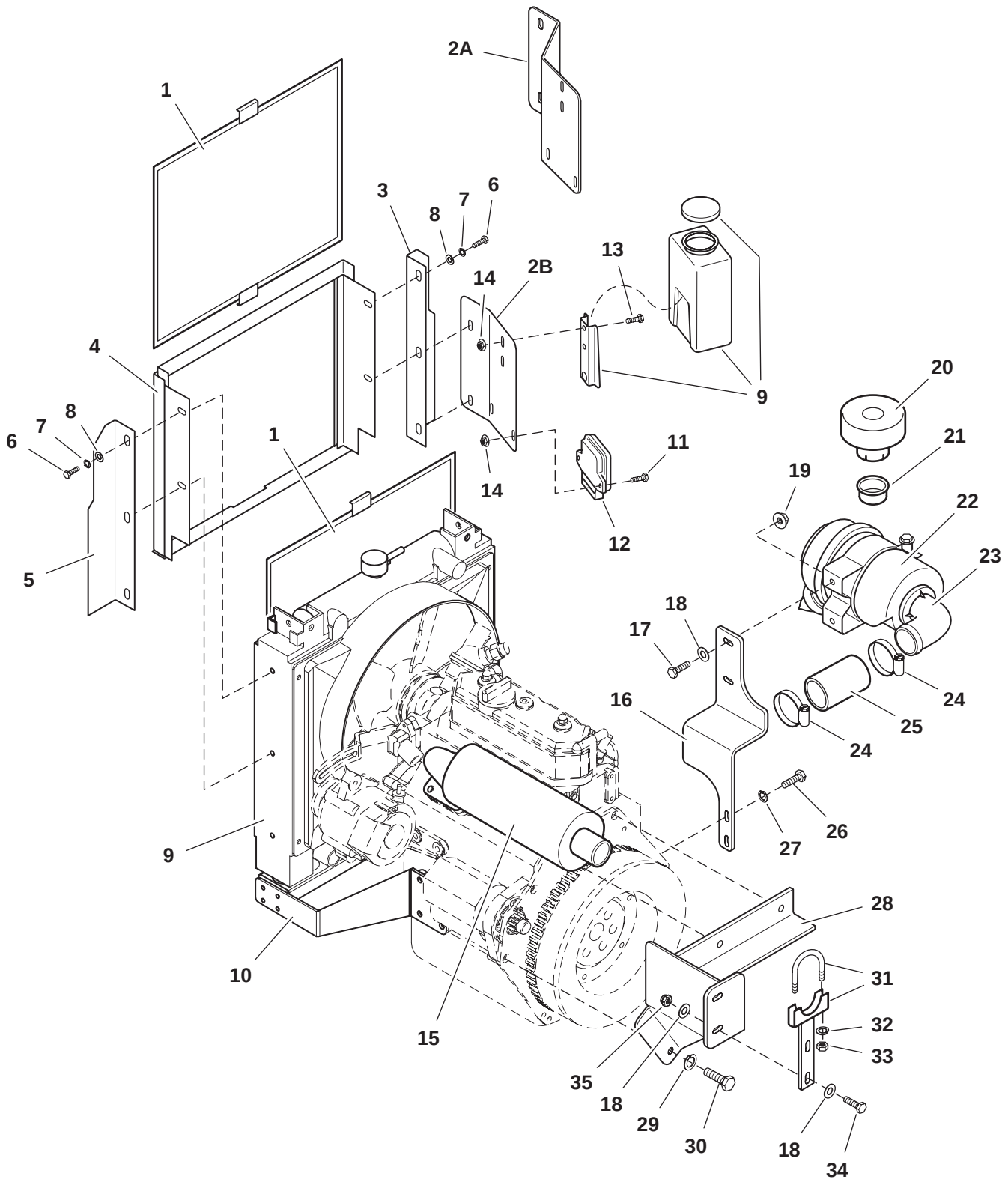
The above parts group applies to the following Model Nos.:

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

## Engine Accessories Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

### Engine Accessories Group

| REF NO. | PART NO. | QTY. | DESCRIPTION                                    |
|---------|----------|------|------------------------------------------------|
| 1       | 22370-6  | 2    | RADIATOR SCREEN                                |
| 2A      | 46515    | 1    | MOUNT, Overflow Bracket (hood support-mounted) |
| 2B      | 46233    | 1    | MOUNT, Overflow Bracket (radiator-mounted)     |
| 3       | 46478    | 1    | AIR BAFFLE-RH                                  |
| 4       | 46234    | 1    | RADIATOR COVER                                 |
| 5       | 46477    | 1    | AIR BAFFLE-LH                                  |
| 6       | *        | 6    | CAPSCREW, Hex Hd, M6 x 15mm                    |
| 7       | 25169    | 6    | WASHER, Lock, 1/4                              |
| 8       | 25154    | 6    | WASHER, 1/4                                    |
| 9       | *        | 1    | RADIATOR & OVERFLOW KIT (835004)               |
| 10      | *        | 1    | RADIATOR SUPPORT KIT (834003)                  |
| 11      | 25010-8  | 2    | CAPSCREW, Hex Hd, 1/4-20 x 1                   |
| 12      | *        | 1    | IGNITION MODULE                                |
| 13      | 25010-6  | 2    | CAPSCREW, Hex Hd, 1/4-20 x 3/4                 |
| 14      | 25126    | 4    | NUT, Hex, Serrated Flange, 1/4-20              |
| 15      | *        | 1    | MUFFLER (835029)                               |
| *       | *        | 1    | ADAPTER (835025)                               |
| 16      | 46389    | 1    | SUPPORT, Air Cleaner                           |
| 17      | 25011-6  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 3/4                |
| 18      | 25155    | 6    | WASHER, 5/16                                   |
| 19      | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18             |
| 20      | 22591    | 1    | PRE-CLEANER                                    |
| 21      | 22592    | 1    | ADAPTER INSERT                                 |
| 22      | *        | 1    | AIR CLEANER MOUNT BRACKET (835009)             |
| 23      | *        | 1    | AIR CLEANER (835008)                           |
| 24      | *        | 2    | HOSE CLAMP                                     |
| 25      | *        | 1    | INLET HOSE (835038)                            |
| 26      | 25335    | 2    | CAPSCREW, Hex Hd, M8 x 35mm                    |
| 27      | 25170    | 2    | WASHER, Lock, 5/16                             |
| 28      | 46585    | 1    | SUPPORT, Muffler                               |
| 29      | 25336    | 3    | WASHER, Lock, 10mm                             |
| 30      | 25333    | 3    | CAPSCREW, Hex Hd, M10 x 30mm                   |
| 31      | 46587    | 1    | MUFFLER CLAMP, complete (includes Ref 30 & 31) |
| 32      | 25169    | 2    | WASHER, Lock, 1/4                              |
| 33      | 25030    | 2    | NUT, Hex, 1/4-20                               |
| 34      | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1                  |
| 35      | 25045    | 2    | NUT, Hex, Nylon Lock, 5/16-18                  |

#### Footnotes:

\* See you local Briggs & Stratton Dealer for service parts.

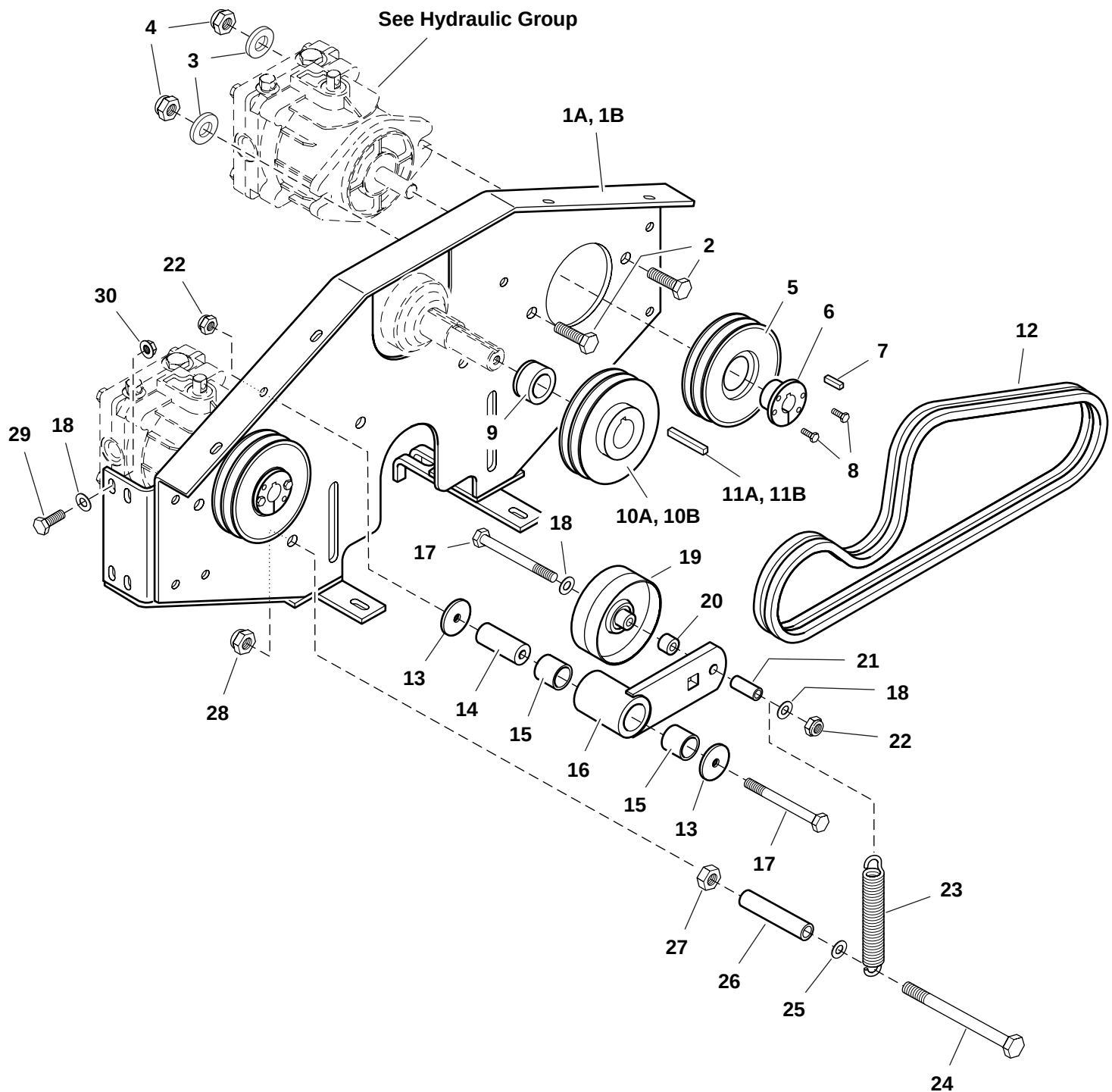
The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## Pump Mount & Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)  
ISZ 27 HP Kawasaki Rider (S/N 101-320)



### ***Pump Mount & Drive Group***

| REF NO. | PART NO.   | QTY. | DESCRIPTION                        |
|---------|------------|------|------------------------------------|
| 1A      | 46243      | 1    | PUMP MOUNT PLATE (31hp model)      |
| 1B      | 46484      | 1    | PUMP MOUNT PLATE (27hp model)      |
| 2       | 25018-14   | 4    | CAPSCREW, Hex Hd, 1/2-20 x 1-3/4   |
| 3       | 44913      | 4    | WASHER, Retaining                  |
| 4       | 25098      | 4    | NUT, Hex, Nylon Lock, 1/2-20       |
| 5       | 22382      | 2    | PULLEY, Pump Drive                 |
| 6       | 22383      | 2    | HUB, Taper Lock                    |
| 7       | 22156      | 2    | KEY, 5mm Sq. x 25mm                |
| 8       | 25010-8    | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1       |
| 9       | 46542      | 1    | SPACER, Pulley (27hp model only)   |
| 10A     | 22381      | 1    | PULLEY, Crankshaft (31hp model)    |
| 10B     | 22380      | 1    | PULLEY, Crankshaft (27hp model)    |
| 11A     | 50404-3    | 1    | KEY, 5/16 Sq. x 1-1/2 (31hp model) |
| 11B     | 50407-2    | 1    | KEY, 1/4 Sq. x 3 (27hp model)      |
| 12      | 22314      | 1    | BELT, Pump Drive (set of 2)        |
| 13      | 45139      | 2    | RETAINER, Idler Arm                |
| 14      | 45135      | 1    | SHAFT, Idler Pivot                 |
| 15      | 22157      | 2    | BUSHING, Brass                     |
| 16      | 46574      | 1    | PUMP DRIVE IDLER ARM               |
| 17      | 25013-32   | 2    | CAPSCREW, Hex Hd, 3/8-16 x 4       |
| 18      | 25156      | 8    | WASHER, 3/8                        |
| 19      | 22373      | 1    | PULLEY, Idler, Flat                |
| 20      | 44960-009  | 1    | SPACER                             |
| 21      | 44959      | 1    | SPACER                             |
| 22      | 25096      | 2    | NUT, Hex, Nylon Lock, 3/8-16       |
| 23      | 21826      | 1    | SPRING, Extension                  |
| 24      | 25017-40   | 1    | CAPSCREW, Hex Hd, 1/2-13 x 5       |
| 25      | 25158      | 1    | WASHER, 1/2                        |
| 26      | 50857-3.25 | 1    | HOSE, 3-1/4                        |
| 27      | 25301      | 1    | NUT, Hex, Jam, 1/2-13              |
| 28      | 25056      | 1    | NUT, Hex, Nylon Lock, 1/2-13       |
| 29      | 25013-8    | 6    | CAPSCREW, Hex Hd, 3/8-16 x 1       |
| 30      | 25128      | 6    | NUT, Hex, Serrated Flange, 3/8-16  |

#### ***IMPORTANT NOTE:***

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Pump Mount & Drive Group listed on page 24 & 25. Refer to the serial number list on the inside cover to determine if your machine was affected.

#### **Footnotes:**

The above parts group applies to the following Model Nos.:

IS4000Z/D31

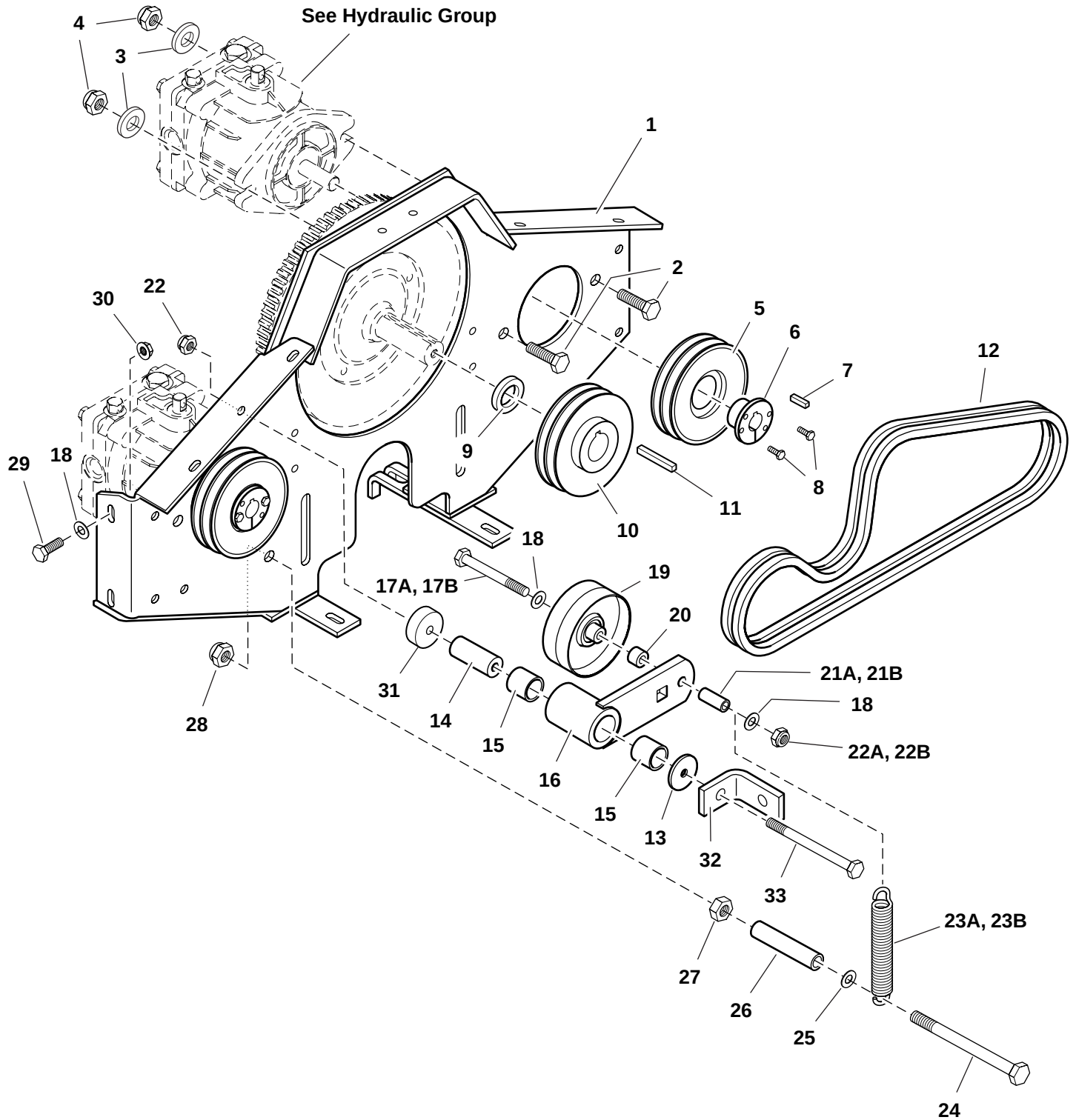
ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 101-320)

## Pump Mount & Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

### ***Pump Mount & Drive Group***

| REF NO. | PART NO.   | QTY. | DESCRIPTION                                     |
|---------|------------|------|-------------------------------------------------|
| 1       | 46915      | 1    | PUMP MOUNT PLATE                                |
| 2       | 25018-14   | 4    | CAPSCREW, Hex Hd, 1/2-20 x 1-3/4                |
| 3       | 44913-009  | 4    | WASHER, Retaining                               |
| 4       | 25098      | 4    | NUT, Hex, Nylon Lock, 1/2-20                    |
| 5       | 22382      | 2    | PULLEY, Pump Drive                              |
| 6       | 22383      | 2    | HUB, Taper Lock                                 |
| 7       | 22156      | 2    | KEY, 5mm Sq. x 25mm                             |
| 8       | 25010-8    | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1                    |
| 9       | 46904      | 1    | SPACER, Stub Shaft (31hp model)                 |
| 10      | 22380      | 1    | PULLEY, Crankshaft                              |
| 11      | 50407-2    | 1    | KEY, 1/4 Sq. x 3                                |
| 12      | 22314      | 1    | BELT, Pump Drive (set of 2)                     |
| 13      | 45139      | 2    | RETAINER, Idler Arm                             |
| 14      | 45135      | 1    | SHAFT, Idler Pivot                              |
| 15      | 22157      | 2    | BUSHING, Brass                                  |
| 16      | 46574      | 1    | PUMP DRIVE IDLER ARM                            |
| 17A     | 25013-32   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 4 (S/N 376-435)      |
| 17B     | 25013-24   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 3 (S/N 436 & up)     |
| 18      | 25156      | 8    | WASHER, 3/8                                     |
| 19      | 22373      | 1    | PULLEY, Idler, Flat                             |
| 20      | 44933-009  | 1    | SPACER                                          |
| 21A     | 44959-009  | 1    | SPACER (S/N 376-435)                            |
| 21B     | 47199      | 1    | SPACER (S/N 436 & up)                           |
| 22      | 25096      | 1    | NUT, Hex, Nylon Lock, 3/8-16                    |
| 22A     | 25096      | 1    | NUT, Hex, Nylon Lock, 3/8-16 (S/N 376-435)      |
| 22B     | 25100      | 1    | NUT, Hex, Side Lock, 3/8-16 (S/N 436 & up)      |
| 23A     | 22818      | 1    | SPRING, Extension (S/N 376 - 455)               |
| 23B     | 22847      | 1    | SPRING, Extension, Swivel End (S/N 456 & up)    |
| 24      | 25017-40   | 1    | CAPSCREW, Hex Hd, 1/2-13 x 5                    |
| 25      | 25158      | 1    | WASHER, 1/2                                     |
| 26      | 50857-3.25 | 1    | HOSE, 3-1/4                                     |
| 27      | 25301      | 1    | NUT, Hex, Jam, 1/2-13                           |
| 28      | 25056      | 1    | NUT, Hex, Nylon Lock, 1/2-13                    |
| 29      | 25013-8    | 6    | CAPSCREW, Hex Hd, 3/8-16 x 1                    |
| 30      | 25128      | 6    | NUT, Hex, Serrated Flange, 3/8-16               |
| 31      | 46905      | 1    | SPACER, Pump Drive Idler                        |
| 32      | 42142      | 1    | SPRING ANCHOR BRACKET (S/N 436 & up)            |
| 33      | 25013-32   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 4 (S/N 376-435)      |
| *       | 25013-36   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 4-1/2 (S/N 436 & up) |

### **Footnotes:**

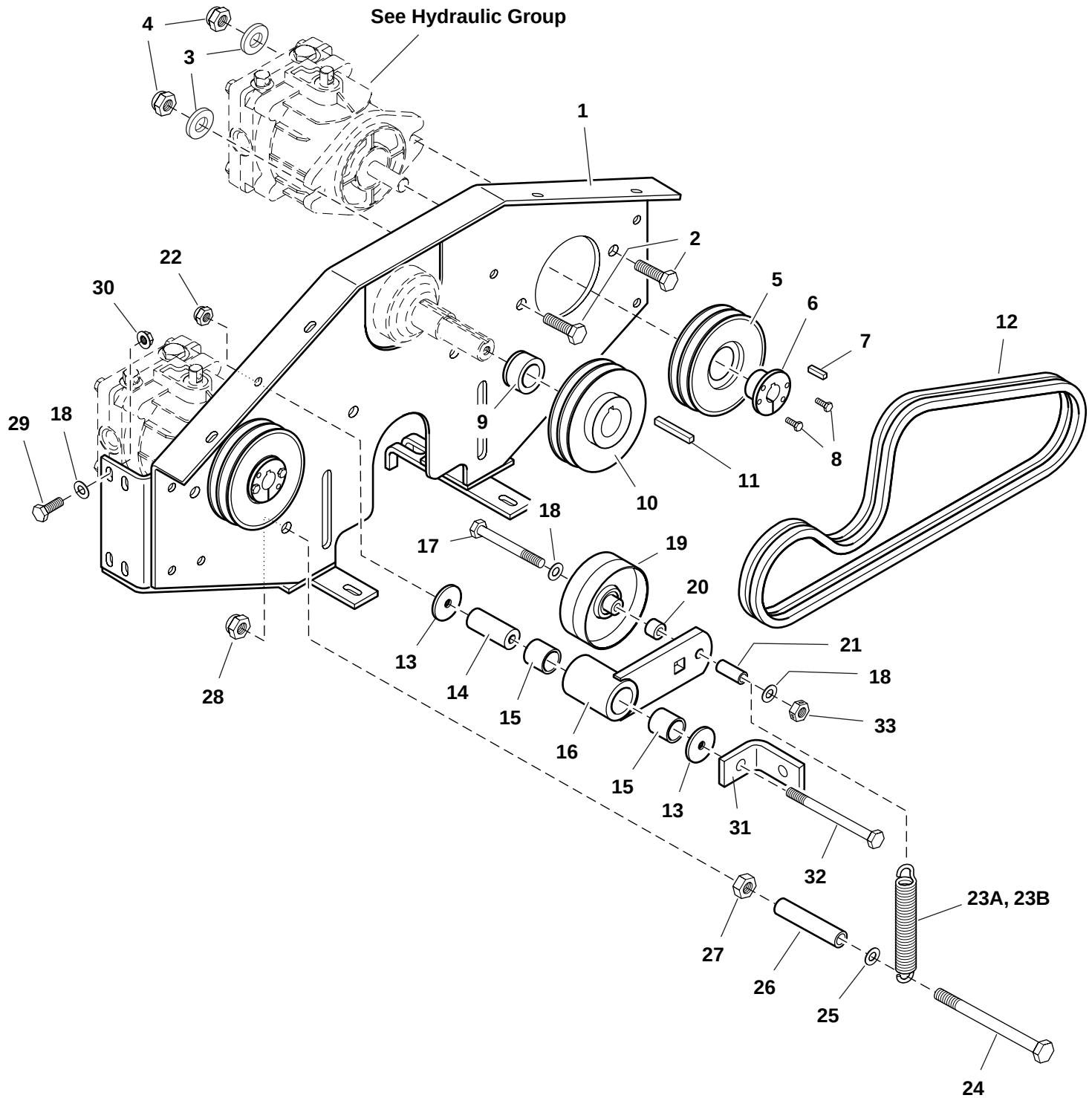
**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

## Pump Mount & Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 321 & up)

## Pump Mount & Drive Group

| REF NO. | PART NO.   | QTY. | DESCRIPTION                                  |
|---------|------------|------|----------------------------------------------|
| 1       | 46484      | 1    | PUMP MOUNT PLATE                             |
| 2       | 25018-14   | 4    | CAPSCREW, Hex Hd, 1/2-20 x 1-3/4             |
| 3       | 44913      | 4    | WASHER, Retaining                            |
| 4       | 25098      | 4    | NUT, Hex, Nylon Lock, 1/2-20                 |
| 5       | 22382      | 2    | PULLEY, Pump Drive                           |
| 6       | 22383      | 2    | HUB, Taper Lock                              |
| 7       | 22156      | 2    | KEY, 5mm Sq. x 25mm                          |
| 8       | 25010-8    | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1                 |
| 9       | 46542      | 1    | SPACER, Pulley                               |
| 10      | 22380      | 1    | PULLEY, Crankshaft                           |
| 11      | 50407-2    | 1    | KEY, 1/4 Sq. x 3                             |
| 12      | 22314      | 1    | BELT, Pump Drive (set of 2)                  |
| 13      | 45139      | 2    | RETAINER, Idler Arm                          |
| 14      | 45135      | 1    | SHAFT, Idler Pivot                           |
| 15      | 22157      | 2    | BUSHING, Brass                               |
| 16      | 46574      | 1    | PUMP DRIVE IDLER ARM                         |
| 17      | 25013-24   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 3                 |
| 18      | 25156      | 8    | WASHER, 3/8                                  |
| 19      | 22373      | 1    | PULLEY, Idler, Flat                          |
| 20      | 44960-009  | 1    | SPACER                                       |
| 21      | 47199      | 1    | SPACER                                       |
| 22      | 25096      | 1    | NUT, Hex, Nylon Lock, 3/8-16                 |
| 23A     | 21826      | 1    | SPRING, Extension (S/N 321 - 370)            |
| 23B     | 22847      | 1    | SPRING, Extension, Swivel End (S/N 371 & up) |
| 24      | 25017-40   | 1    | CAPSCREW, Hex Hd, 1/2-13 x 5                 |
| 25      | 25158      | 1    | WASHER, 1/2                                  |
| 26      | 50857-3.25 | 1    | HOSE, 3-1/4                                  |
| 27      | 25301      | 1    | NUT, Hex, Jam, 1/2-13                        |
| 28      | 25056      | 1    | NUT, Hex, Nylon Lock, 1/2-13                 |
| 29      | 25013-8    | 6    | CAPSCREW, Hex Hd, 3/8-16 x 1                 |
| 30      | 25128      | 6    | NUT, Hex, Serrated Flange, 3/8-16            |
| 31      | 42142      | 1    | SPRING ANCHOR BRACKET                        |
| 32      | 25013-36   | 1    | CAPSCREW, Hex Hd, 3/8-16 x 4-1/2             |
| 33      | 25100      | 1    | NUT, Hex, Side Lock, 3/8-16                  |

### Footnotes:

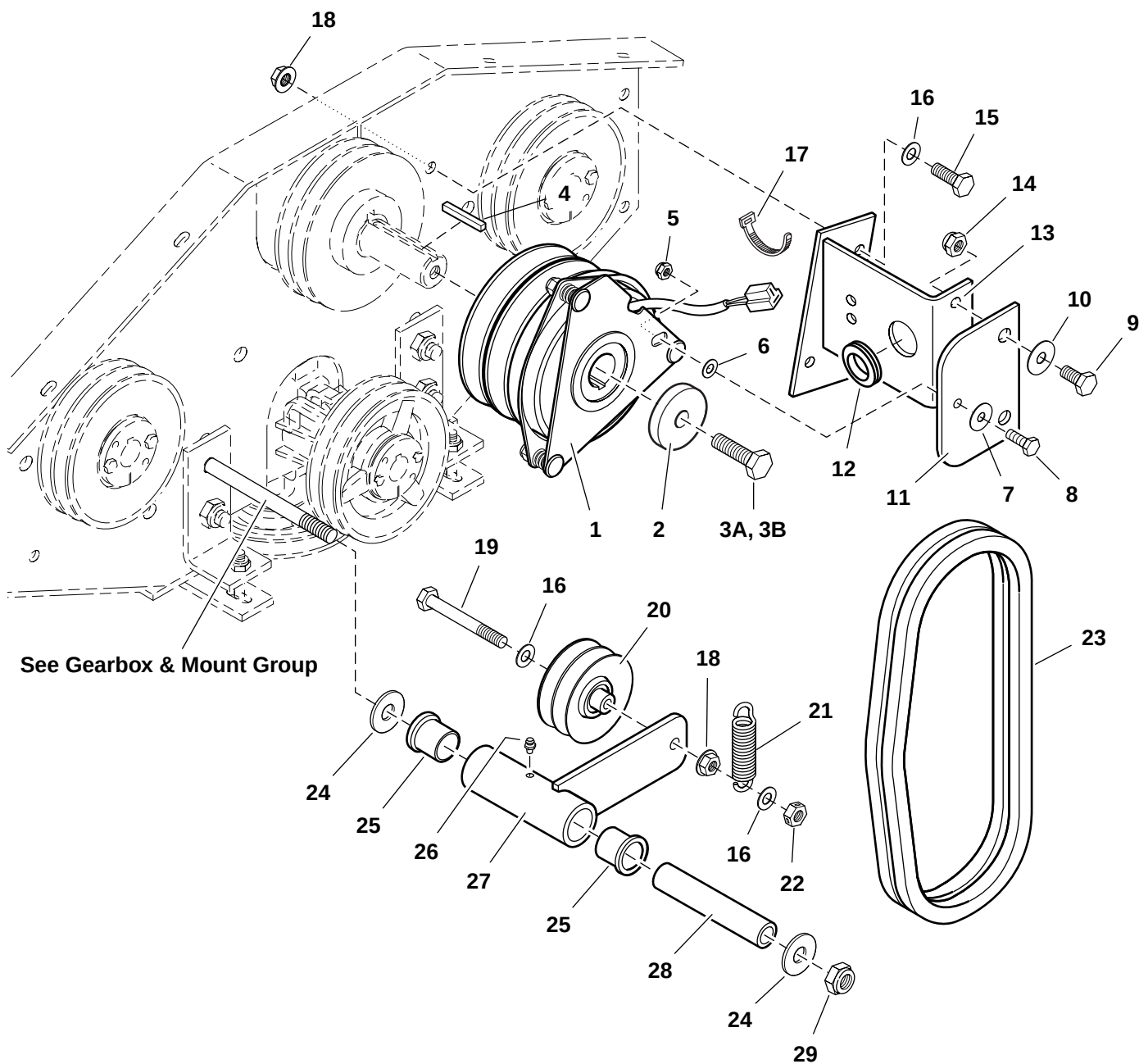
The above parts group applies to the following Model Nos.:

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 321 & up)

## PTO Clutch & Anchor Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)  
ISZ 27 HP Kawasaki Rider (S/N 101-320)

### ***PTO Clutch & Anchor Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                                |
|---------|----------|------|--------------------------------------------|
| 1       | 22330    | 1    | ELECTRIC CLUTCH                            |
| 2       | 45475    | 1    | RETAINER, Clutch                           |
| 3A      | 45473    | 1    | CRANKSHAFT BOLT, 7/16 x 1-1/2 (31hp model) |
| 3B      | 43629    | 1    | CRANKSHAFT BOLT, M10 x 70mm (27hp model)   |
| 4       | 50407-3  | 1    | KEY, 1/4 Sq. x 2 (31hp model only)         |
| 5       | 25045    | 1    | NUT, Hex, Nylon Lock, 5/16-18              |
| 6       | 25155    | 2    | WASHER, 5/16                               |
| 7       | 25164    | 1    | WASHER, Fender, 5/16                       |
| 8       | 25011-8  | 1    | CAPSCREW, Hex Hd, 5/16-18 x 1              |
| 9       | 25013-8  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1               |
| 10      | 25165    | 2    | WASHER, Fender, 3/8                        |
| 11      | 43636    | 1    | PAD, Clutch Anchor                         |
| 12      | 21379    | 1    | GROMMET                                    |
| 13      | 46579    | 1    | CLUTCH ANCHOR                              |
| 14      | 25096    | 2    | NUT, Hex, Nylon Lock, 3/8-16               |
| 15      | 25013-10 | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4           |
| 16      | 25156    | 4    | WASHER, 3/8                                |
| 17      | 21030    | 1    | TIE WRAP                                   |
| 18      | 25128    | 3    | NUT, Hex, Serrated FLange, 3/8-16          |
| 19      | 25013-24 | 1    | CAPSCREW, Hex Hd, 3/8-16 x 3               |
| 20      | 22797    | 1    | PULLEY, Idler                              |
| 21      | 1608395  | 1    | SPRING, Extension                          |
| 22      | 25100    | 1    | NUT, Hex, Side Lock, 3/8-16                |
| 23      | 22575    | 1    | BELT, Clutch Drive (set of 2)              |
| 24      | 25158    | 2    | WASHER, 1/2                                |
| 25      | 22250    | 2    | BUSHING, Flange                            |
| 26      | 20095    | 1    | GREASE FITTING                             |
| 27      | 46565    | 1    | CLUTCH DRIVE IDLER ARM                     |
| 28      | 45305    | 1    | PIVOT SLEEVE                               |
| 29      | 25056    | 1    | NUT, Hex, Nylon Lock, 1/2-13               |

#### ***IMPORTANT NOTE:***

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the PTO Clutch & Anchor Group listed on page 30 & 31. Refer to the serial number list on the inside cover to determine if your machine was affected.

#### **Footnotes:**

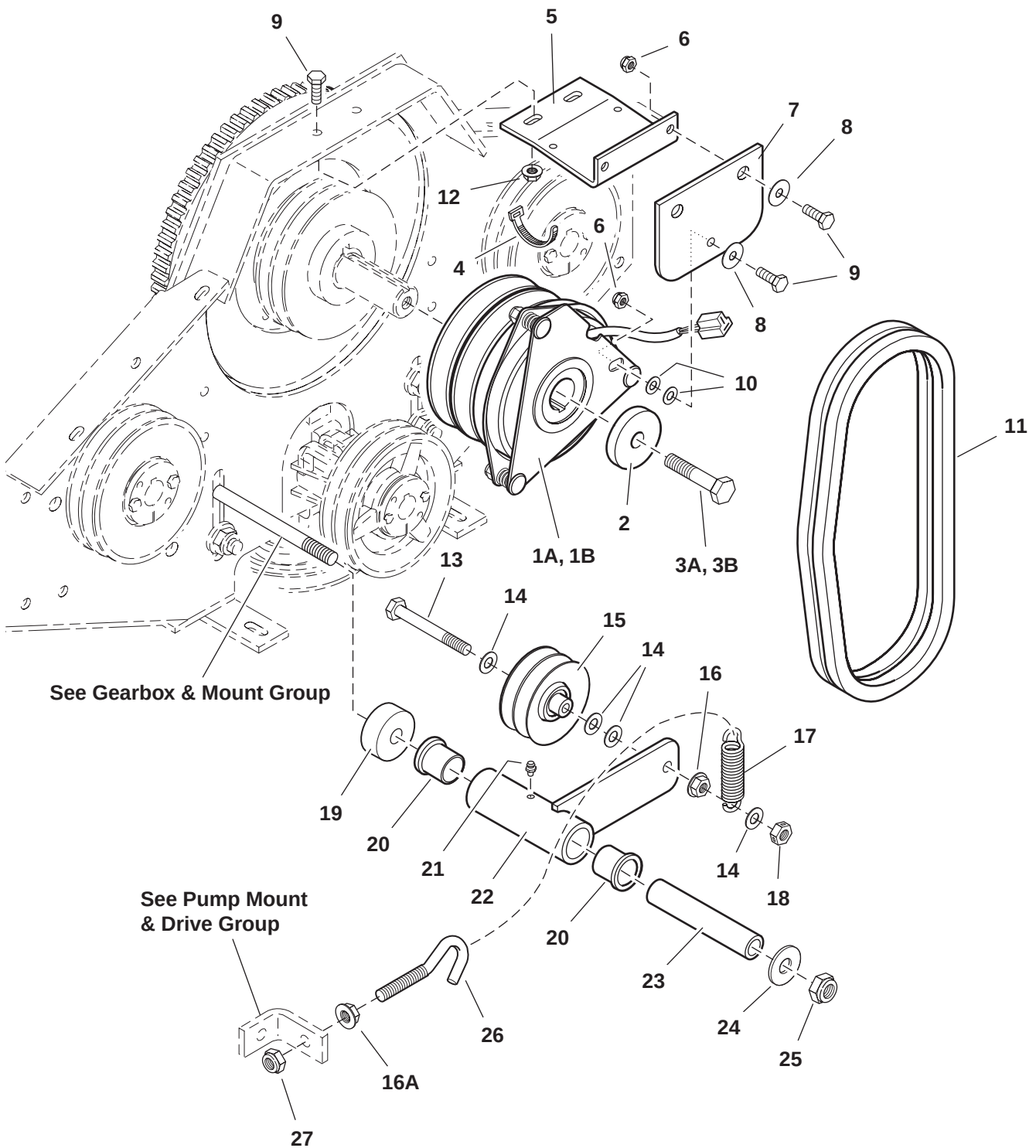
#### **The above parts group applies to the following Model Nos.:**

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)  
ISZ 27 HP Kawasaki Rider (S/N 101-320)

## PTO Clutch & Anchor Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)



**PTO Clutch & Anchor Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                      |
|---------|----------|------|--------------------------------------------------|
| 1A      | 22330    | 1    | ELECTRIC CLUTCH (S/N 376 - 600)                  |
| 1B      | 22873    | 1    | ELECTRIC CLUTCH (S/N 601 & up)                   |
| 2       | 45475    | 1    | RETAINER, Clutch                                 |
| 3A      | 43626    | 1    | CRANKSHAFT BOLT, 7/16 x 3 (S/N 376 - 600)        |
| 3B      | 47342    | 1    | CRANKSHAFT BOLT, 7/16 x 3-1/2 (S/N 601 & up)     |
| 4       | 21030    | 1    | TIE WRAP                                         |
| 5       | 46917    | 1    | CLUTCH ANCHOR                                    |
| 6       | 25045    | 3    | NUT, Hex, Nylon Lock, 5/16-18                    |
| 7       | 43636    | 1    | PAD, Clutch Anchor                               |
| 8       | 25164    | 3    | WASHER, Fender, 5/16                             |
| 9       | 25011-8  | 1    | CAPSCREW, Hex Hd, 5/16-18 x 1                    |
| 10      | 25155    | 2    | WASHER, 5/16                                     |
| 11      | 22575    | 1    | BELT, Clutch Drive (set of 2)                    |
| 12      | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18               |
| 13      | 25013-24 | 1    | CAPSCREW, Hex Hd, 3/8-16 x 3                     |
| 14      | 25156    | 4    | WASHER, 3/8                                      |
| 15      | 22797    | 1    | PULLEY, Idler                                    |
| 16      | 25128    | 1    | NUT, Hex, Serrated FLange, 3/8-16                |
| 16A     | 25128    | 1    | NUT, Hex, Serrated Flange, 3/8-16 (S/N 436 & up) |
| 17      | 1608395  | 1    | SPRING, Extension                                |
| 18      | 25100    | 1    | NUT, Hex, Side Lock, 3/8-16                      |
| 19      | 46916    | 1    | SPACER, Clutch Idler                             |
| 20      | 22250    | 2    | BUSHING, Flange                                  |
| 21      | 20095    | 1    | GREASE FITTING                                   |
| 22      | 46565    | 1    | CLUTCH DRIVE IDLER ARM                           |
| 23      | 45305    | 1    | PIVOT SLEEVE                                     |
| 24      | 25158    | 1    | WASHER, 1/2                                      |
| 25      | 25056    | 1    | NUT, Hex, Nylon Lock, 1/2-13                     |
| 26      | 25321    | 1    | SCREW HOOK, 3/8-16 x 4-1/4 (S/N 436 & up)        |
| 27      | 25096    | 1    | NUT, Hex, Nylon Lock, 3/8-16 (S/N 436 & up)      |

**Footnotes:**

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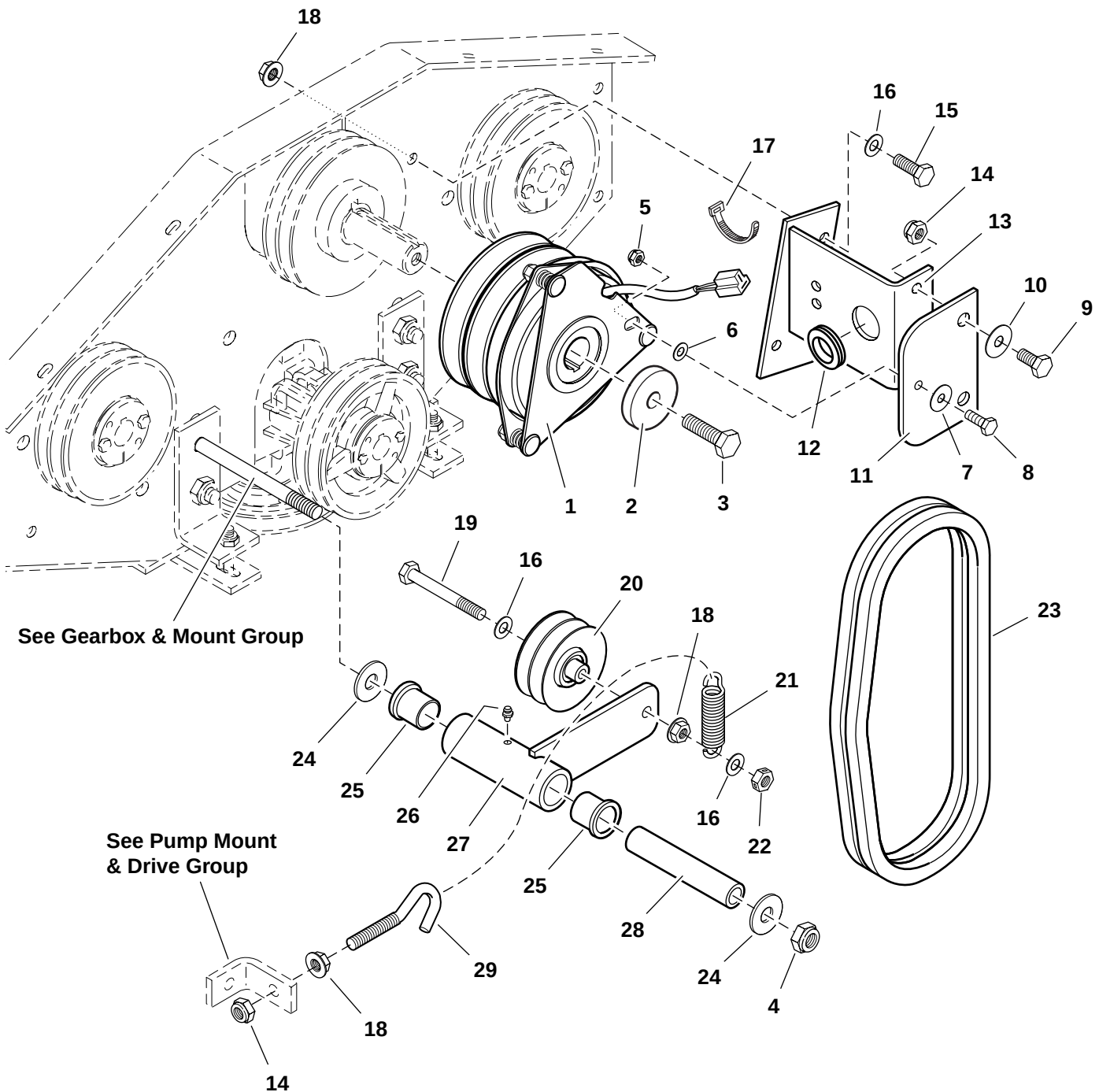
The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

## PTO Clutch & Anchor Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 321 & up)

**PTO Clutch & Anchor Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1       | 22330    | 1    | ELECTRIC CLUTCH                   |
| 2       | 45475    | 1    | RETAINER, Clutch                  |
| 3       | 43629    | 1    | CRANKSHAFT BOLT, M10 x 70mm       |
| 4       | 25056    | 1    | NUT, Hex, Nylon Lock, 1/2-13      |
| 5       | 25045    | 1    | NUT, Hex, Nylon Lock, 5/16-18     |
| 6       | 25155    | 2    | WASHER, 5/16                      |
| 7       | 25164    | 1    | WASHER, Fender, 5/16              |
| 8       | 25011-8  | 1    | CAPSCREW, Hex Hd, 5/16-18 x 1     |
| 9       | 25013-8  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1      |
| 10      | 25165    | 2    | WASHER, Fender, 3/8               |
| 11      | 43636    | 1    | PAD, Clutch Anchor                |
| 12      | 21379    | 1    | GROMMET                           |
| 13      | 46579    | 1    | CLUTCH ANCHOR                     |
| 14      | 25096    | 3    | NUT, Hex, Nylon Lock, 3/8-16      |
| 15      | 25013-10 | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4  |
| 16      | 25156    | 4    | WASHER, 3/8                       |
| 17      | 21030    | 1    | TIE WRAP                          |
| 18      | 25128    | 4    | NUT, Hex, Serrated FLange, 3/8-16 |
| 19      | 25013-24 | 1    | CAPSCREW, Hex Hd, 3/8-16 x 3      |
| 20      | 22797    | 1    | PULLEY, Idler                     |
| 21      | 1608395  | 1    | SPRING, Extension                 |
| 22      | 25100    | 1    | NUT, Hex, Side Lock, 3/8-16       |
| 23      | 22575    | 1    | BELT, Clutch Drive (set of 2)     |
| 24      | 25158    | 2    | WASHER, 1/2                       |
| 25      | 22250    | 2    | BUSHING, Flange                   |
| 26      | 20095    | 1    | GREASE FITTING                    |
| 27      | 46565    | 1    | CLUTCH DRIVE IDLER ARM            |
| 28      | 45305    | 1    | PIVOT SLEEVE                      |
| 29      | 25321    | 1    | SCREW HOOK, 3/8-16 x 4-1/4        |

**Footnotes:**

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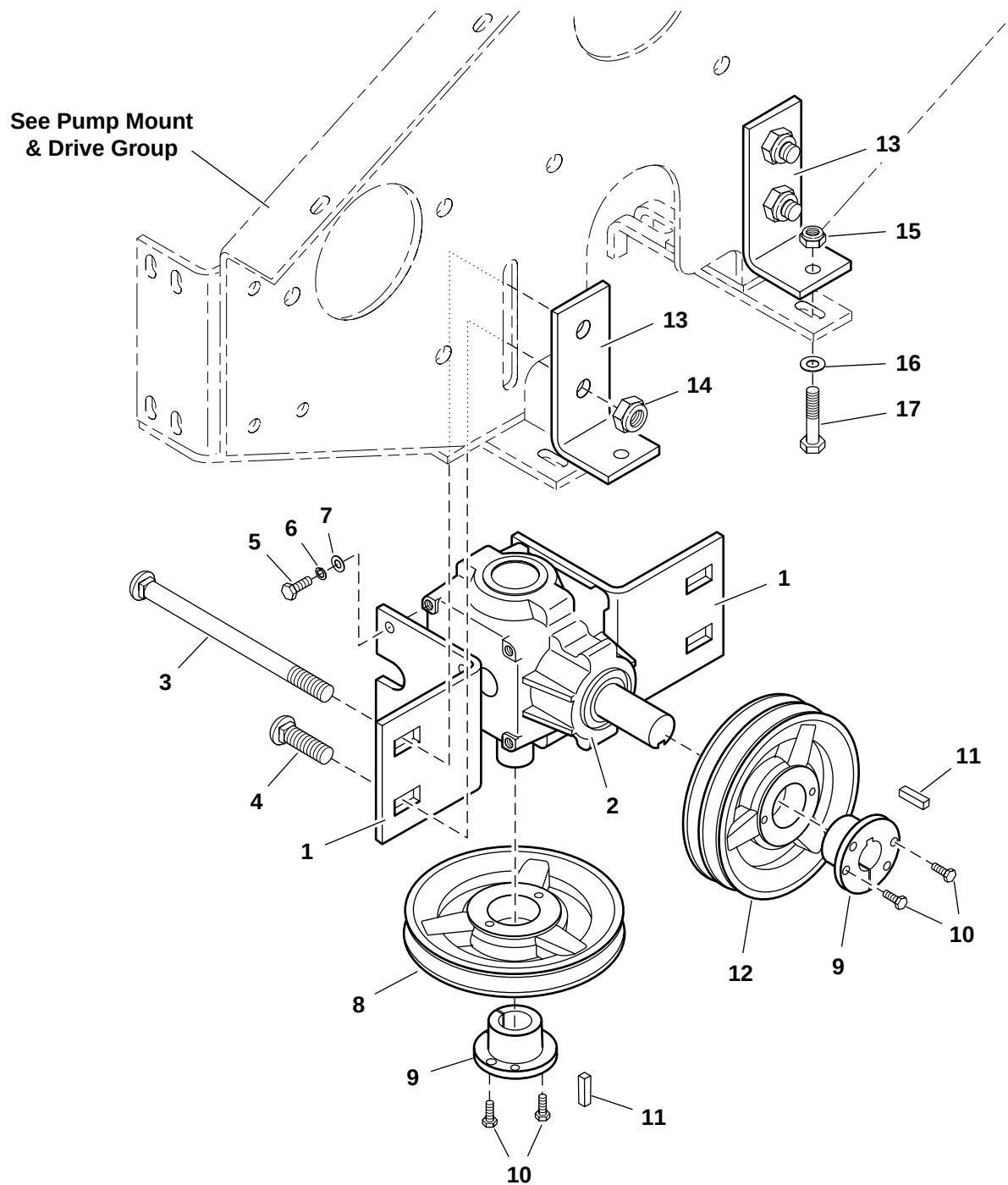
The above parts group applies to the following Model Nos.:

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 321 & up)

## Gearbox & Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)  
ISZ 27 HP Kawasaki Rider (S/N 101-320)

### ***Gearbox & Mount Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                   |
|---------|----------|------|-------------------------------|
| 1       | 46349    | 2    | GEARBOX MOUNT BRACKET         |
| 2       | 22378    | 1    | GEARBOX                       |
| 3       | 25334    | 1    | CARRIAGE BOLT, 1/2-13 x 7     |
| 4       | 25324-16 | 3    | CARRIAGE BOLT, 1/2-13 x 2     |
| 5       | 25011-8  | 8    | CAPSCREW, Hex Hd, 5/16-18 x 1 |
| 6       | 25170    | 8    | WASHER, Lock, 5/16            |
| 7       | 25155    | 8    | WASHER, 5/16                  |
| 8       | 20815    | 1    | PULLEY, Spindle (31hp model)  |
| *       | 22794    | 1    | PULLEY, Spindle (27hp model)  |
| 9       | 50819    | 2    | HUB, Taper Lock               |
| 10      | 25010-8  | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1  |
| 11      | 50407-1  | 2    | KEY, 1/4 x 1                  |
| 12      | 22384    | 1    | PULLEY, Gearbox Input         |
| 13      | 46260    | 2    | TAB, Mount                    |
| 14      | 25038    | 3    | NUT, Hex, Nylon Lock, 1/2-13  |
| 15      | 25096    | 2    | NUT, Hex, Nylon Lock, 3/8-16  |
| 16      | 25156    | 2    | WASHER, 3/8                   |
| 17      | 25013-16 | 2    | CAPSCREW, Hex Hd, 3/8-16 x 2  |

#### ***IMPORTANT NOTE:***

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Gearbox & Mount Group listed on page 36 & 37. Refer to the serial number list on the inside cover to determine if your machine was affected.

#### **Footnotes:**

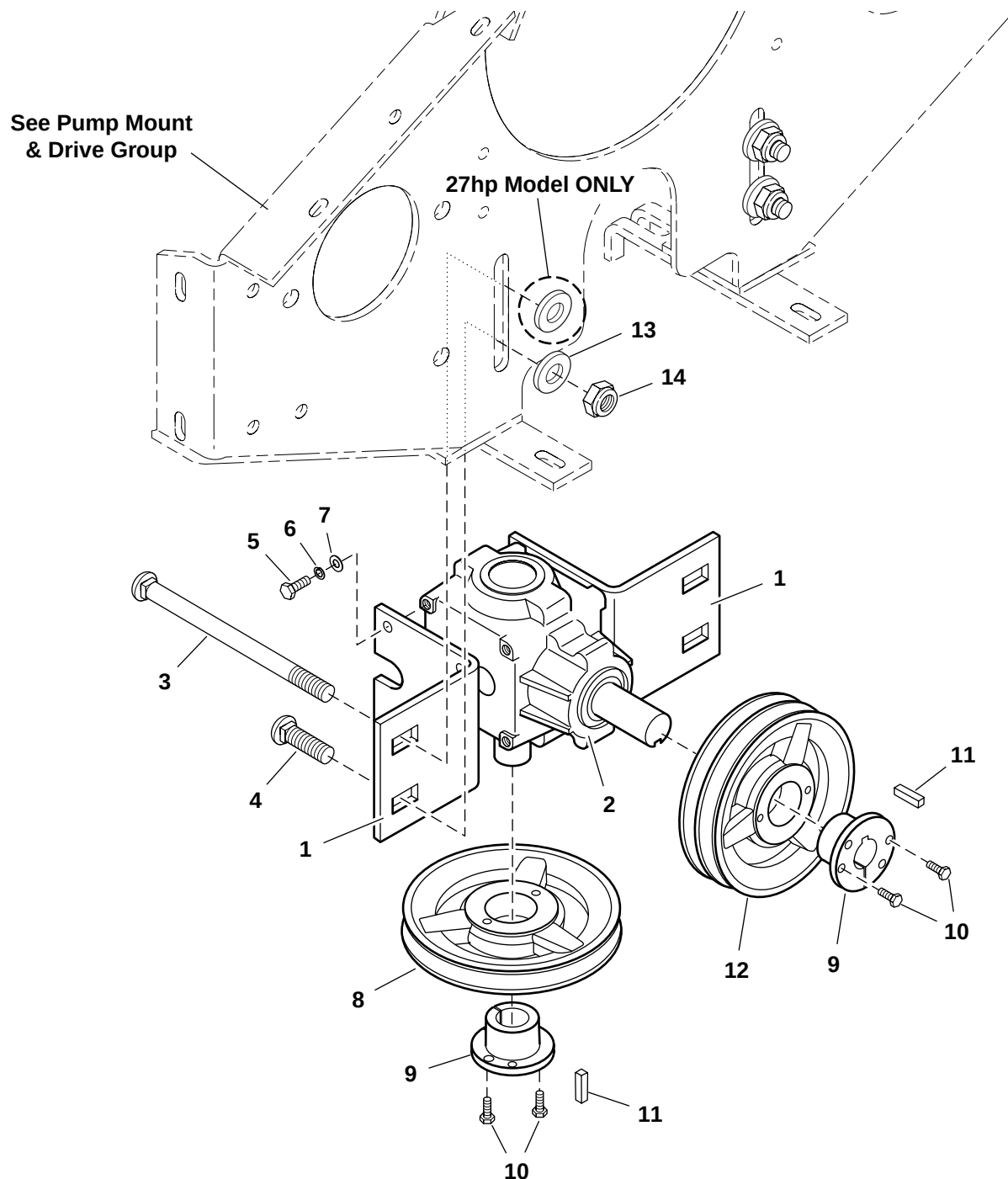
The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 101-375)  
ISZ 27 HP Kawasaki Rider (S/N 101-320)

## Gearbox & Mount Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)  
ISZ 27 HP Kawasaki Rider (S/N 321 & up)

### ***Gearbox & Mount Group***

| REF NO. | PART NO.  | QTY. | DESCRIPTION                    |
|---------|-----------|------|--------------------------------|
| 1       | 46349     | 2    | GEARBOX MOUNT BRACKET          |
| 2       | 22378     | 1    | GEARBOX                        |
| 3       | 25334     | 1    | CARRIAGE BOLT, 1/2-13 x 7      |
| 4       | 25324-16  | 3    | CARRIAGE BOLT, 1/2-13 x 2      |
| 5       | 25011-8   | 8    | CAPSCREW, Hex Hd, 5/16-18 x 1  |
| 6       | 25170     | 8    | WASHER, Lock, 5/16             |
| 7       | 25155     | 8    | WASHER, 5/16                   |
| 8       | 20815     | 1    | PULLEY, Spindle (31hp model)   |
| *       | 22794     | 1    | PULLEY, Spindle (27hp model)   |
| 9       | 50819     | 2    | HUB, Taper Lock                |
| 10      | 25010-8   | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1   |
| 11      | 50407-1   | 2    | KEY, 1/4 x 1                   |
| 12      | 22384     | 1    | PULLEY, Gearbox Input          |
| 13      | 44913-009 | 3    | WASHER, Retaining (31hp model) |
| *       |           | 4    | WASHER, Retaining (27hp model) |
| 14      | 25038     | 3    | NUT, Hex, Nylon Lock, 1/2-13   |

### **Footnotes:**

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**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

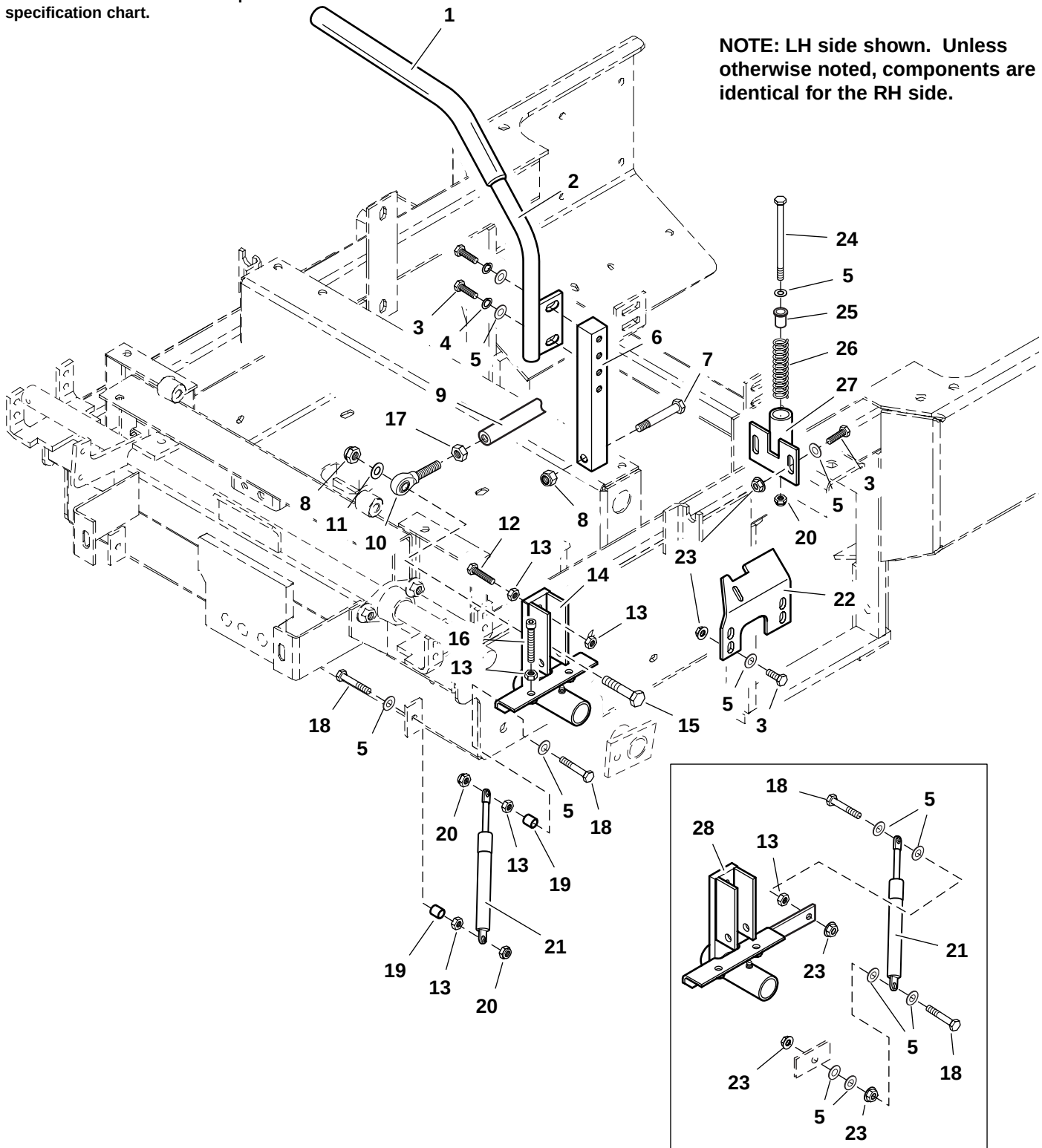
ISZ 31 HP Briggs & Stratton, Diahatsu Rider (S/N 376 & up)

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider (S/N 321 & up)

## Motion Control Group-Upper

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



IS4000Z/D31 - Serial No. 276 & up  
IS4000Z/KAV27 - All

The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider  
ISZ 27 HP Kawasaki Rider



**Motion Control Group-Upper**

| REF NO. | PART NO.  | QTY. | DESCRIPTION                        |
|---------|-----------|------|------------------------------------|
| 1       | 22068     | 2    | GRIP, Foam                         |
| 2       | 46148     | 1    | MOTION CONTROL HANDLE-LH           |
| *       | 46147     | 1    | MOTION CONTROL HANDLE-RH           |
| 3       | 25011-6   | 16   | CAPSCREW, Hex Hd, 5/16-18 x 3/4    |
| 4       | 25170     | 4    | WASHER, Lock, 5/16                 |
| 5       | 25155     | 34   | WASHER, 5/16                       |
| 6       | 46572     | 2    | BASE, Control Handle               |
| 7       | 25013-16  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 2       |
| 8       | 25096     | 4    | NUT, Hex, Nylon Lock, 3/8-16       |
| 9       | 46393     | 2    | CONTROL ROD                        |
| 10      | 21124     | 2    | BALL JOINT, 3/8-24                 |
| 11      | 25156     | 2    | WASHER, 3/8                        |
| 12      | 25011-8   | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1      |
| 13      | 25032     | 14   | NUT, Hex, 5/16-18                  |
| 14      | 46204     | 2    | CONTROL ARM MOUNT                  |
| 15      | 25013-12  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/2   |
| 16      | 25311-16  | 4    | CAPSCREW, Socket Hd, 5/16-18 x 2   |
| 17      | 25035     | 2    | NUT, Hex, 3/8-24                   |
| 18      | 25011-12  | 4    | CAPSCREW, Hex Hd, 5/16-18 x 1-1/2  |
| 19      | 41930-009 | 2    | SLEEVE                             |
| 20      | 25057     | 6    | NUT, Hex, Nylon Lock, 5/16-18      |
| 21      | 22360     | 2    | DAMPENER                           |
| 22      | 46576     | 1    | NEUTRAL LOCK PLATE-LH              |
| *       | 46575     | 1    | NEUTRAL LOCK PLATE-RH              |
| 23      | 25127     | 18   | NUT, Hex, Serrated Flange, 5/16-18 |
| 24      | 25011-48  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 6      |
| 25      | 22290     | 2    | BUSHING, Flange                    |
| 26      | 22421     | 2    | SPRING, Compression                |
| 27      | 46206     | 2    | SPRING RETURN BRACKET              |
| 28      | 46594     | 1    | CONTROL ARM MOUNT-LH               |
| *       | 46593     | 1    | CONTROL ARM MOUNT-RH               |

**Footnotes:**

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The above parts group applies to the following Model Nos.:

IS4000Z/D31

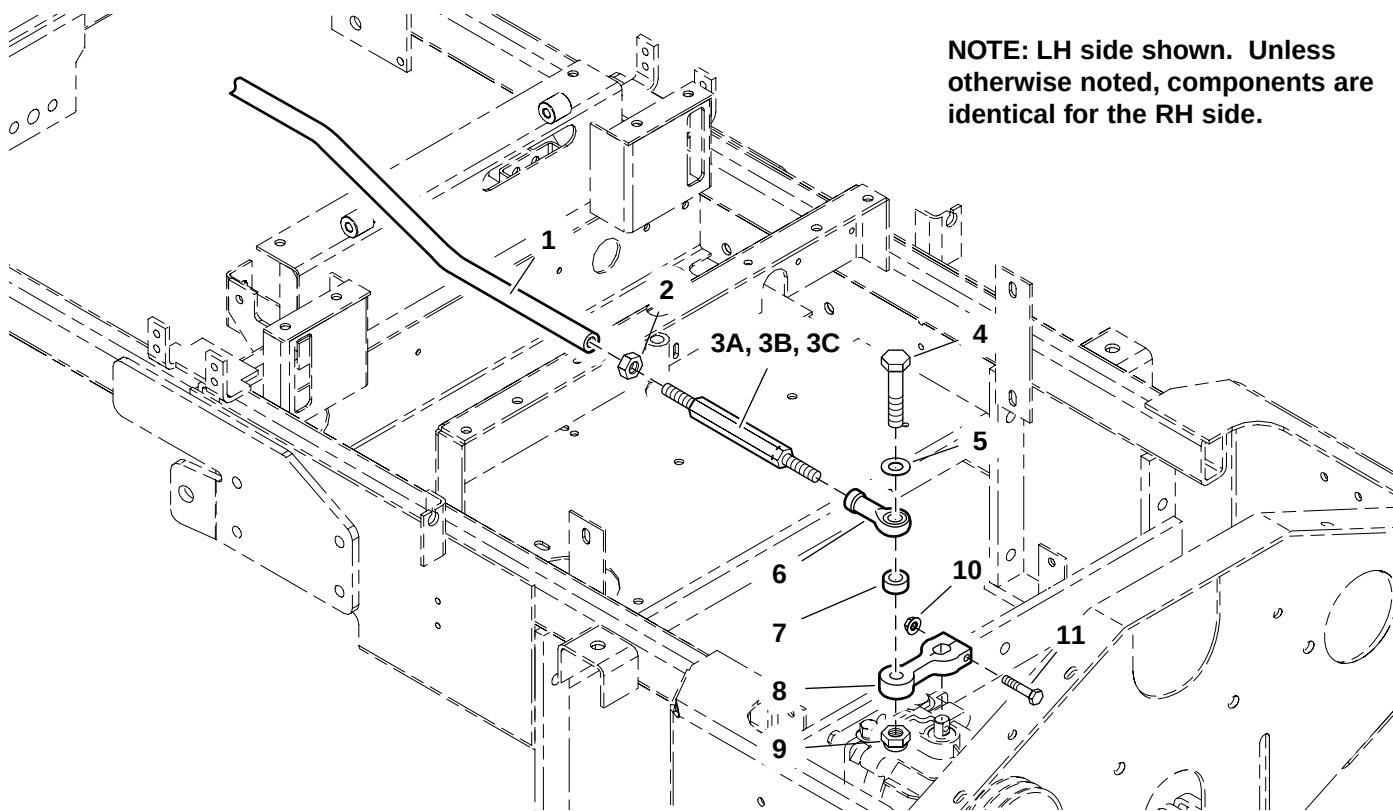
ISZ 31 HP Briggs & Stratton, Diahatsu Rider

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

## Motion Control Group-Lower

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

### ***Motion Control Group-Lower***

| REF NO. | PART NO.  | QTY. | DESCRIPTION                                           |
|---------|-----------|------|-------------------------------------------------------|
| 1       | 46393     | 2    | CONTROL ROD                                           |
| 2       | 25035     | 2    | NUT, Hex, 3/8-24                                      |
| 3A      | 45725     | 2    | LINK, Neutral Adjust-Long (31hp model, S/N 101-375)   |
| 3B      | 46910     | 2    | LINK, Neutral Adjust-Long (31hp model, S/N 376 & up)) |
| 3C      | 46534     | 2    | LINK, Neutral Adjust-Short (27hp model)               |
| 4       | 25013-16  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 2                          |
| 5       | 25156     | 2    | WASHER, 3/8                                           |
| 6       | 22392     | 2    | BALL JOINT, 3/8-24 LH, Female                         |
| 7       | 44933-009 | 2    | SPACER                                                |
| 8       | 45863     | 2    | CONTROL ARM                                           |
| 9       | 25096     | 2    | NUT, Hex, Nylon Lock, 3/8-16                          |
| 10      | 25126     | 2    | NUT, Hex, Serrated Flange, 1/4-20                     |
| 11      | 25010-14  | 2    | CAPSCREW, Hex Hd, 1/4-20 x 1-3/4                      |

***IMPORTANT NOTE:***

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Neutral Adjust Link-Long (46910) for replacement parts. Refer to the serial number list on the inside cover to determine if you machine was affected.

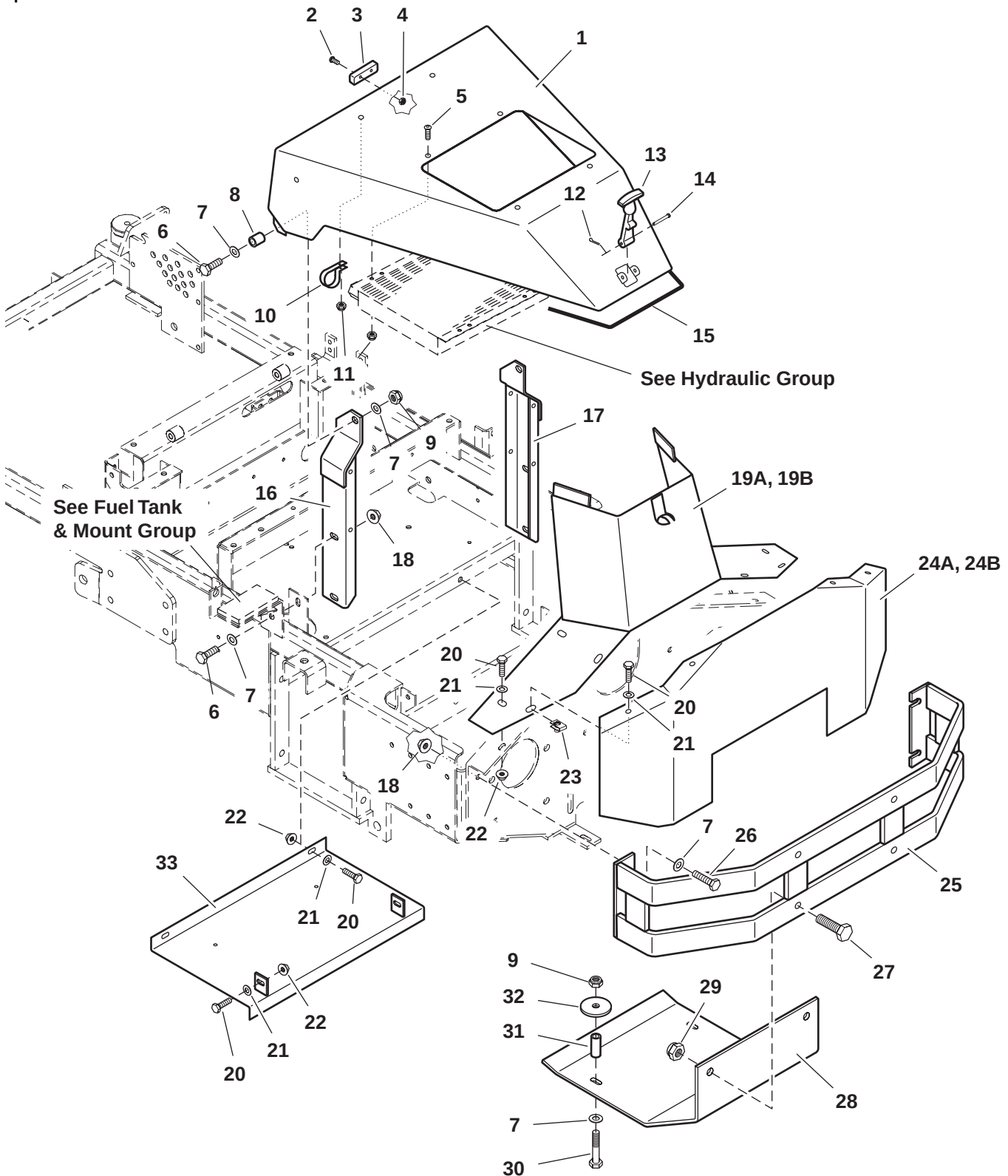
**Footnotes:**

**The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Hood, Bumper & Shield Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## Hood, Bumper & Shield Group

| REF NO. | PART NO.  | QTY. | DESCRIPTION                        |
|---------|-----------|------|------------------------------------|
| 1       | 46126     | 1    | ENGINE HOOD                        |
| 2       | 25338-5   | 2    | SCREW, #8-32 x 5/8                 |
| 3       | 22809     | 1    | RUBBER PAD                         |
| 4       | 25339     | 2    | NUT, Hex, Nylon Lock, #8-32        |
| 5       | 25299-6   | 8    | SCREW, Allen Hd, 1/4-20 x 3/4      |
| 6       | 25013-8   | 6    | CAPSCREW, Hex Hd, 3/8-16 x 1       |
| 7       | 25156     | 14   | WASHER, 3/8                        |
| 8       | 41930-009 | 2    | SLEEVE, Pivot                      |
| 9       | 25196     | 4    | NUT, Hex, Nylon Lock, 3/8-16       |
| 10      | 21500     | 4    | CLAMP, Vinyl                       |
| 11      | 25126     | 8    | NUT, Hex, Nylon Lock, 1/4-20       |
| 12      | 20841-5   | 1    | PIN, Cotter                        |
| 13      | 20841-1   | 1    | RUBBER LATCH                       |
| 14      | 50841-4   | 1    | PIN, Clevis                        |
| 15      | 50853-20  | 1    | BODY MOLDING, 20"                  |
| 16      | 46244     | 1    | HOOD MOUNT-LH                      |
| 17      | 46247     | 1    | HOOD MOUNT-RH                      |
| 18      | 25128     | 8    | NUT, Hex, Serrated Flange, 3/8-16  |
| 19A     | 46127     | 1    | REAR HOOD SUPPORT (S/N 101-375)    |
| 19B     | 46922     | 1    | REAR HOOD SUPPORT (S/N 376 & up)   |
| 20      | 25011-8   | 12   | CAPSCREW, Hex Hd, 5/16-18 x 1      |
| 21      | 25155     | 12   | WASHER, 5/16                       |
| 22      | 25127     | 8    | NUT, Hex, Serrated Flange, 5/16-18 |
| 23      | 22308     | 4    | BODY CLIP, 5/16-18                 |
| 24A     | 45784     | 1    | REAR SHIELD (S/N 101-600)          |
| 24B     | 47305     | 1    | REAR SHIELD (S/N 601 & up)         |
| 25      | 45778     | 1    | BUMPER                             |
| 26      | 25013-10  | 4    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4   |
| 27      | 25018-12  | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/2   |
| 28      | 46259     | 1    | SKID SHIELD                        |
| 29      | 25098     | 2    | NUT, Hex, Nylon Lock, 1/2-20       |
| 30      | 25013-20  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 2-1/2   |
| 31      | 44992-009 | 2    | SPACER                             |
| 32      | 45139     | 2    | RETAINER, Idler Arm                |
| 33      | 46295     | 1    | DEBRIS SHIELD                      |

### IMPORTANT NOTE:

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Rear Hood Support (46922) for replacement parts. Refer to the serial number list on the inside cover to determine if you machine was affected.

### Footnotes:

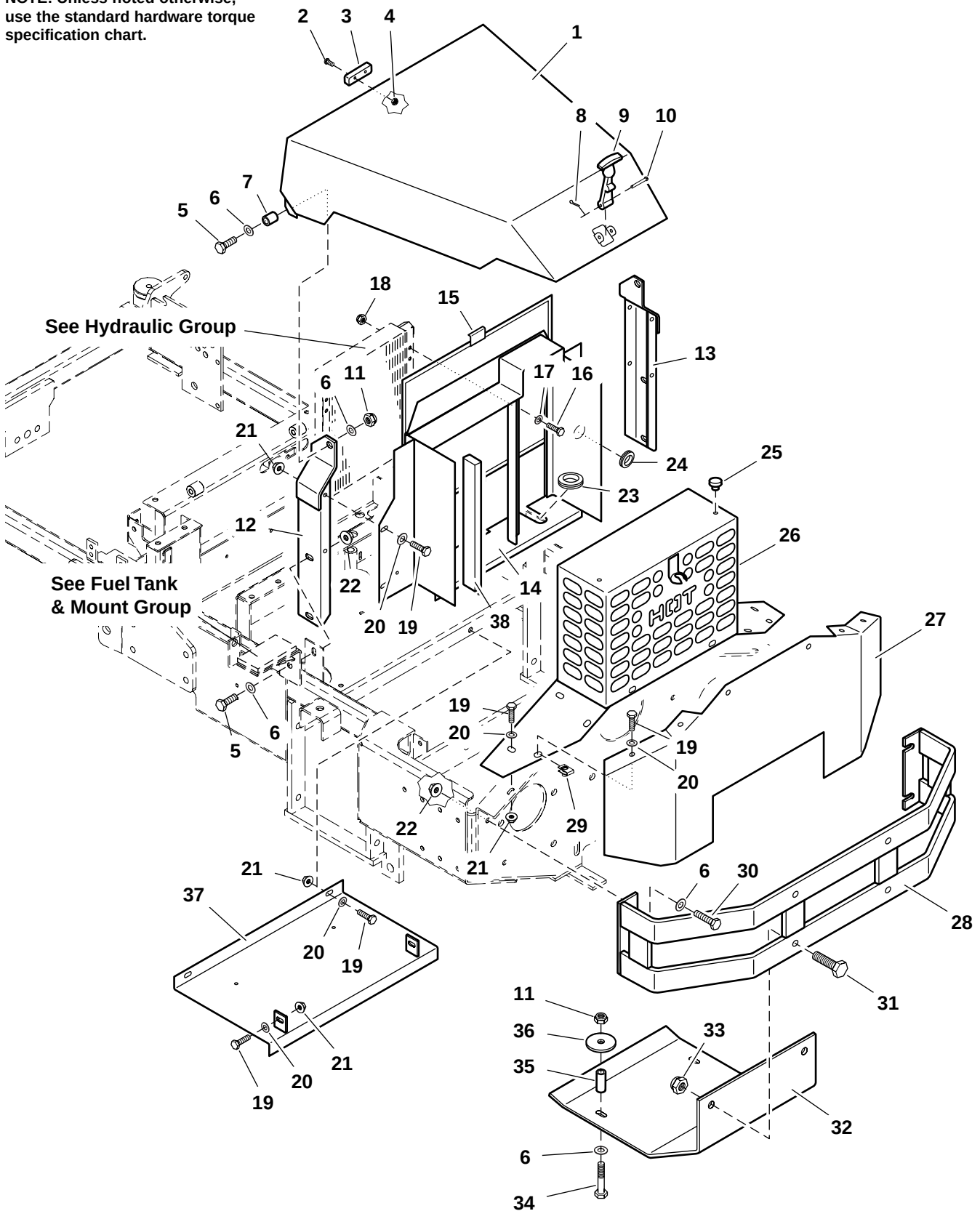
The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## Hood, Bumper, Shroud & Shield Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



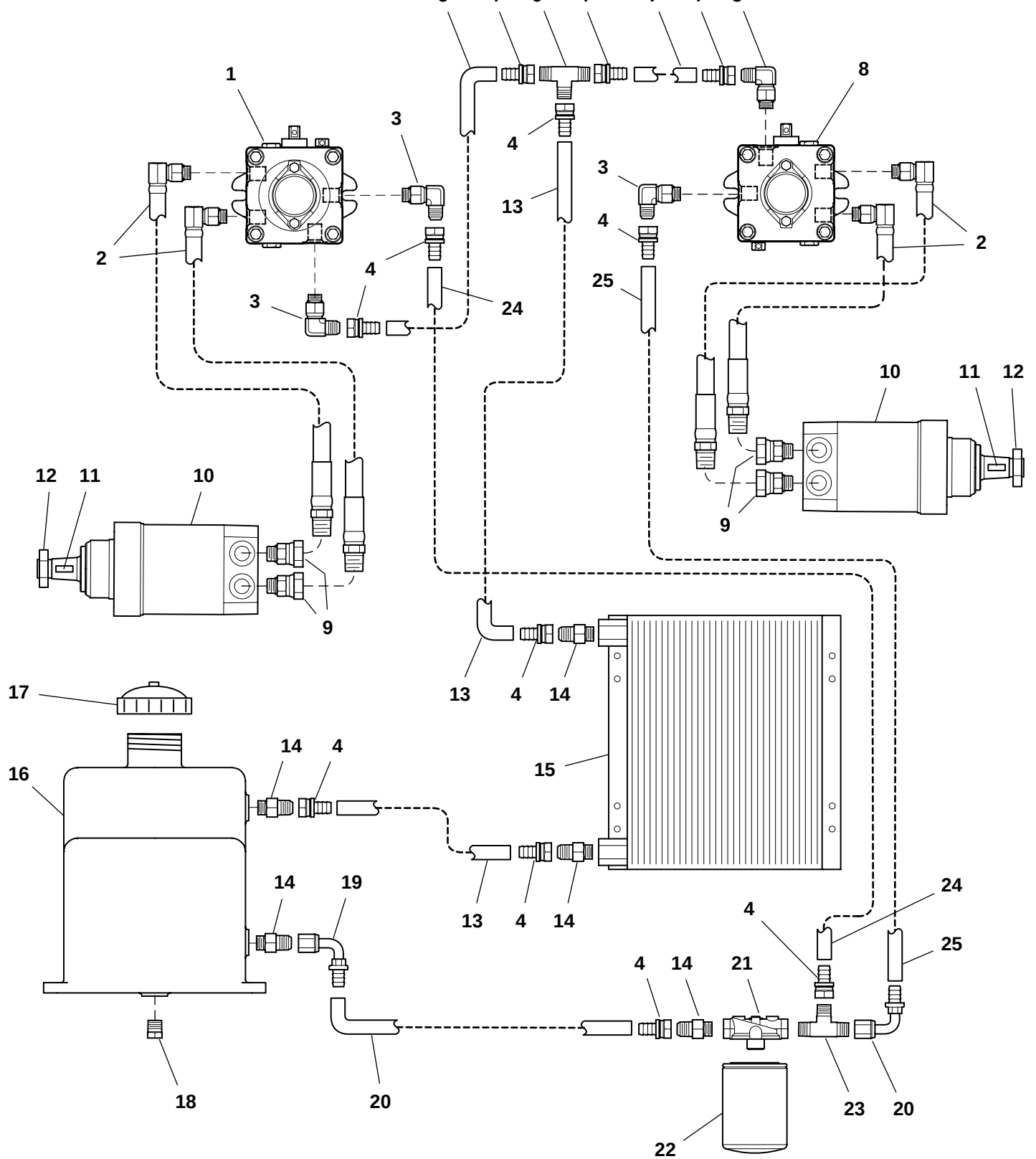
The above parts group applies to the following Model Nos.:  
IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

**Hood, Bumper, Shroud & Shield Group**

| REF NO. | PART NO.  | QTY. | DESCRIPTION                        |
|---------|-----------|------|------------------------------------|
| 1       | 46538     | 1    | ENGINE HOOD                        |
| 2       | 25338-5   | 2    | SCREW, #8-32 x 5/8                 |
| 3       | 22809     | 1    | RUBBER PAD                         |
| 4       | 25339     | 2    | NUT, Hex, Nylon Lock, #8-32        |
| 5       | 25013-8   | 6    | CAPSCREW, Hex Hd, 3/8-16 x 1       |
| 6       | 25156     | 14   | WASHER, 3/8                        |
| 7       | 41930-009 | 2    | SLEEVE, Pivot                      |
| 8       | 20841-5   | 1    | PIN, Cotter                        |
| 9       | 20841-1   | 1    | RUBBER LATCH                       |
| 10      | 50841-4   | 1    | PIN, Clevis                        |
| 11      | 25196     | 4    | NUT, Hex, Nylon Lock, 3/8-16       |
| 12      | 46244     | 1    | HOOD MOUNT-LH                      |
| 13      | 46247     | 1    | HOOD MOUNT-RH                      |
| 14      | 46522     | 1    | RADIATOR SHROUD                    |
| 15      | 22370-6   | 1    | RADIATOR SCREEN                    |
| 16      | 25010-6   | 4    | CAPSCREW, Hex Hd, 1/4-20 x 3/4     |
| 17      | 25154     | 4    | WASHER, 1/4                        |
| 18      | 25095     | 4    | NUT, Hex, Nylon Lock, 1/4-20       |
| 19      | 25011-8   | 18   | CAPSCREW, Hex Hd, 5/16-18          |
| 20      | 25155     | 18   | WASHER, 5/16                       |
| 21      | 25127     | 12   | NUT, Hex, Serrated Flange, 5/16-18 |
| 22      | 25128     | 8    | NUT, Hex, Serrated Flange, 3/8-16  |
| 23      | 21397     | 1    | GROMMET                            |
| 24      | 21379     | 1    | GROMMET                            |
| 25      | 22807     | 2    | RUBBER BUMPER                      |
| 26      | 46537     | 1    | MUFFLER GUARD                      |
| 27      | 46536     | 1    | REAR SHIELD                        |
| 28      | 45778     | 1    | BUMPER                             |
| 29      | 22308     | 6    | BODY CLIP, 5/16-18                 |
| 30      | 25013-10  | 4    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4   |
| 31      | 25018-12  | 2    | CAPSCREW, Hex Hd, 1/2-20 x 1-1/2   |
| 32      | 46259     | 1    | SKID SHIELD                        |
| 33      | 25098     | 2    | NUT, Hex, Nylon Lock, 1/2-20       |
| 34      | 25013-20  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 2-1/2   |
| 35      | 44992-009 | 2    | SPACER                             |
| 36      | 45139     | 2    | RETAINER, Idler Arm                |
| 37      | 46295     | 1    | DEBRIS SHIELD                      |
| 38      | 50913-14  | 2    | FOAM SEAL, 14"                     |

**Footnotes:**

The above parts group applies to the following Model Nos.:  
IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider



**The above parts group applies to the following Model Nos.:**  
IS4000Z/D31                      ISZ 31 HP Briggs & Stratton, Diahatsu Rider



## ***Hydraulic Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                                            |
|---------|----------|------|--------------------------------------------------------|
| 1       | 22376    | 1    | HYDRAULIC PUMP-RH                                      |
| 2       | 22046    | 4    | HYDRAULIC HOSE ASSEMBLY                                |
| 3       | 22599    | 4    | HYDRAULIC FITTING, O-Ring, 90 Deg.                     |
| 4       | 22598    | 12   | FITTING, JIC #8, Straight                              |
| 5       | 50857-40 | 1    | HOSE, Hydraulic, 40"                                   |
| 6       | 22604    | 1    | FITTING, Tee, JIC #8                                   |
| 7       | 50857-15 | 1    | HOSE, Hydraulic, 15"                                   |
| 8       | 22375    | 1    | HYDRAULIC PUMP-LH                                      |
| 9       | 21166    | 4    | HYDRAULIC FITTING, O-Ring Adapter                      |
| 10      | 22368    | 2    | HYDRAULIC WHEEL MOTOR, Complete (includes Ref 11 & 12) |
| 11      | 22042-2  | 2    | KEY                                                    |
| 12      | 22042-3  | 2    | NUT                                                    |
| 13      | 50857-34 | 2    | HOSE, Hydraulic, 34"                                   |
| 14      | 22601    | 5    | FITTING, NPT - JIC #8                                  |
| 15      | 22377    | 1    | OIL COOLER                                             |
| 16      | 45872    | 1    | HYDRAULIC OIL RESERVOIR                                |
| 17      | 22437    | 1    | CAP, Reservoir                                         |
| 18      | 20986    | 1    | PLUG, 1/2 NPT                                          |
| 19      | 22603    | 2    | FITTING, 90 Deg. JIC #8                                |
| 20      | 50857-7  | 1    | HOSE, Hydraulic, 7"                                    |
| 21      | 21356    | 1    | FILTER HEAD                                            |
| 22      | 21357    | 1    | FILTER                                                 |
| 23      | 22602    | 1    | FITTING, Tee, JIC #8, NPT                              |
| 24      | 50857-38 | 1    | HOSE, Hydraulic, 38"                                   |
| 25      | 50857-24 | 1    | HOSE, Hydraulic, 24"                                   |

### **Footnotes:**

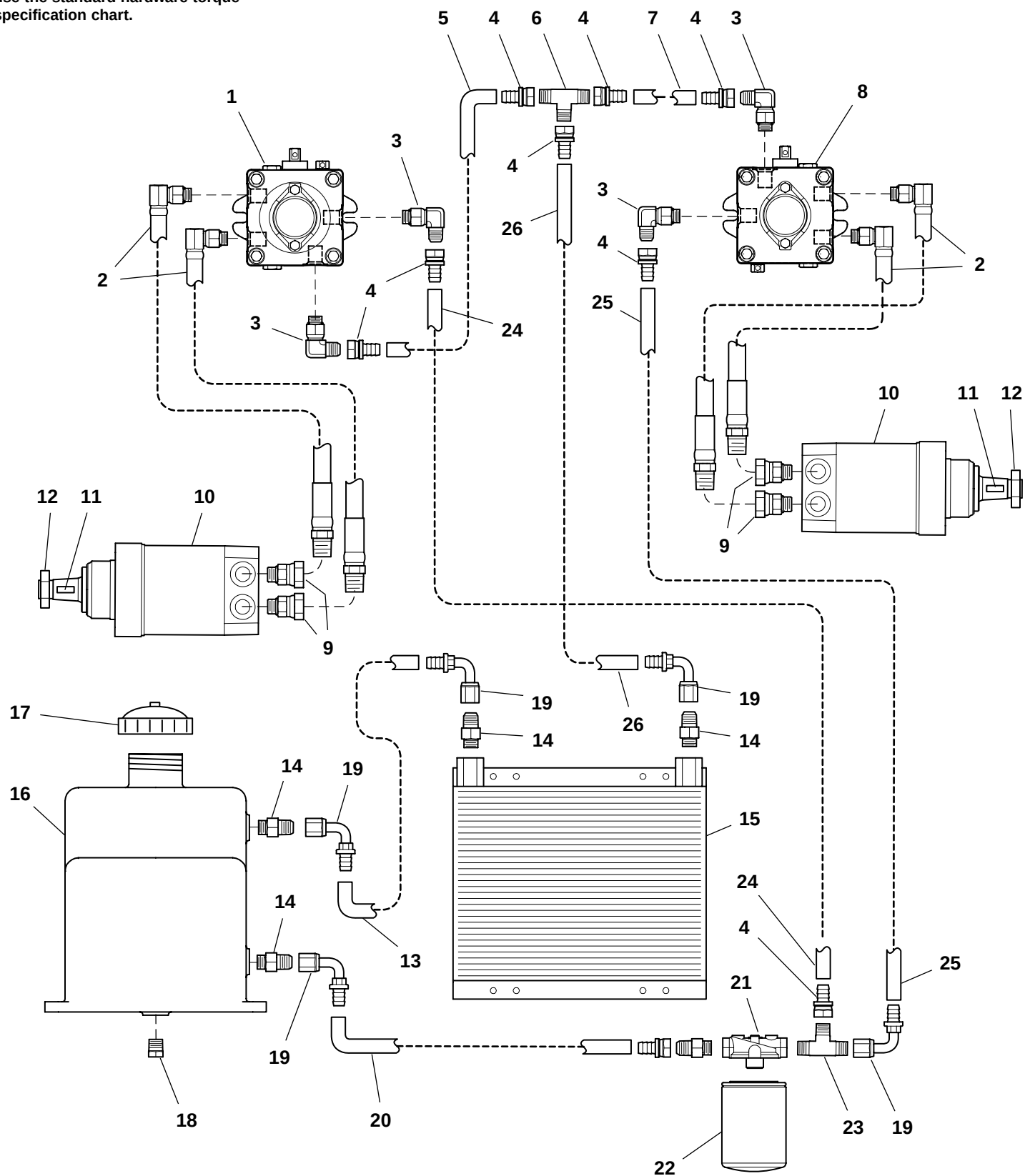
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**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**



**The above parts group applies to the following Model Nos.:**  
IS4000Z/KAV27                      ISZ 27 HP Kawasaki Rider

## Hydraulic Group

| REF NO. | PART NO. | QTY. | DESCRIPTION                                            |
|---------|----------|------|--------------------------------------------------------|
| 1       | 22376    | 1    | HYDRAULIC PUMP-RH                                      |
| 2       | 22046    | 4    | HYDRAULIC HOSE ASSEMBLY                                |
| 3       | 22599    | 4    | HYDRAULIC FITTING, O-Ring, 90 Deg.                     |
| 4       | 22598    | 9    | FITTING, JIC #8, Straight                              |
| 5       | 50857-15 | 1    | HOSE, Hydraulic, 15"                                   |
| 6       | 22604    | 1    | FITTING, Tee, JIC #8                                   |
| 7       | 50857-27 | 1    | HOSE, Hydraulic, 27"                                   |
| 8       | 22375    | 1    | HYDRAULIC PUMP-LH                                      |
| 9       | 21166    | 4    | HYDRAULIC FITTING, O-Ring Adapter                      |
| 10      | 22368    | 2    | HYDRAULIC WHEEL MOTOR, Complete (includes Ref 11 & 12) |
| 11      | 22042-2  | 2    | KEY                                                    |
| 12      | 22042-3  | 2    | NUT                                                    |
| 13      | 50857-16 | 2    | HOSE, Hydraulic, 16"                                   |
| 14      | 22601    | 5    | FITTING, NPT - JIC #8                                  |
| 15      | 22377    | 1    | OIL COOLER                                             |
| 16      | 45872    | 1    | HYDRAULIC OIL RESERVOIR                                |
| 17      | 22437    | 1    | CAP, Reservoir                                         |
| 18      | 20986    | 1    | PLUG, 1/2 NPT                                          |
| 19      | 22603    | 5    | FITTING, 90 Deg. JIC #8                                |
| 20      | 50857-7  | 1    | HOSE, Hydraulic, 7"                                    |
| 21      | 21356    | 1    | FILTER HEAD                                            |
| 22      | 21357    | 1    | FILTER                                                 |
| 23      | 22602    | 1    | FITTING, Tee, JIC #8, NPT                              |
| 24      | 50857-38 | 1    | HOSE, Hydraulic, 38"                                   |
| 25      | 50857-19 | 1    | HOSE, Hydraulic, 19"                                   |
| 26      | 50857-20 | 1    | HOSE, Hydraulic, 20"                                   |

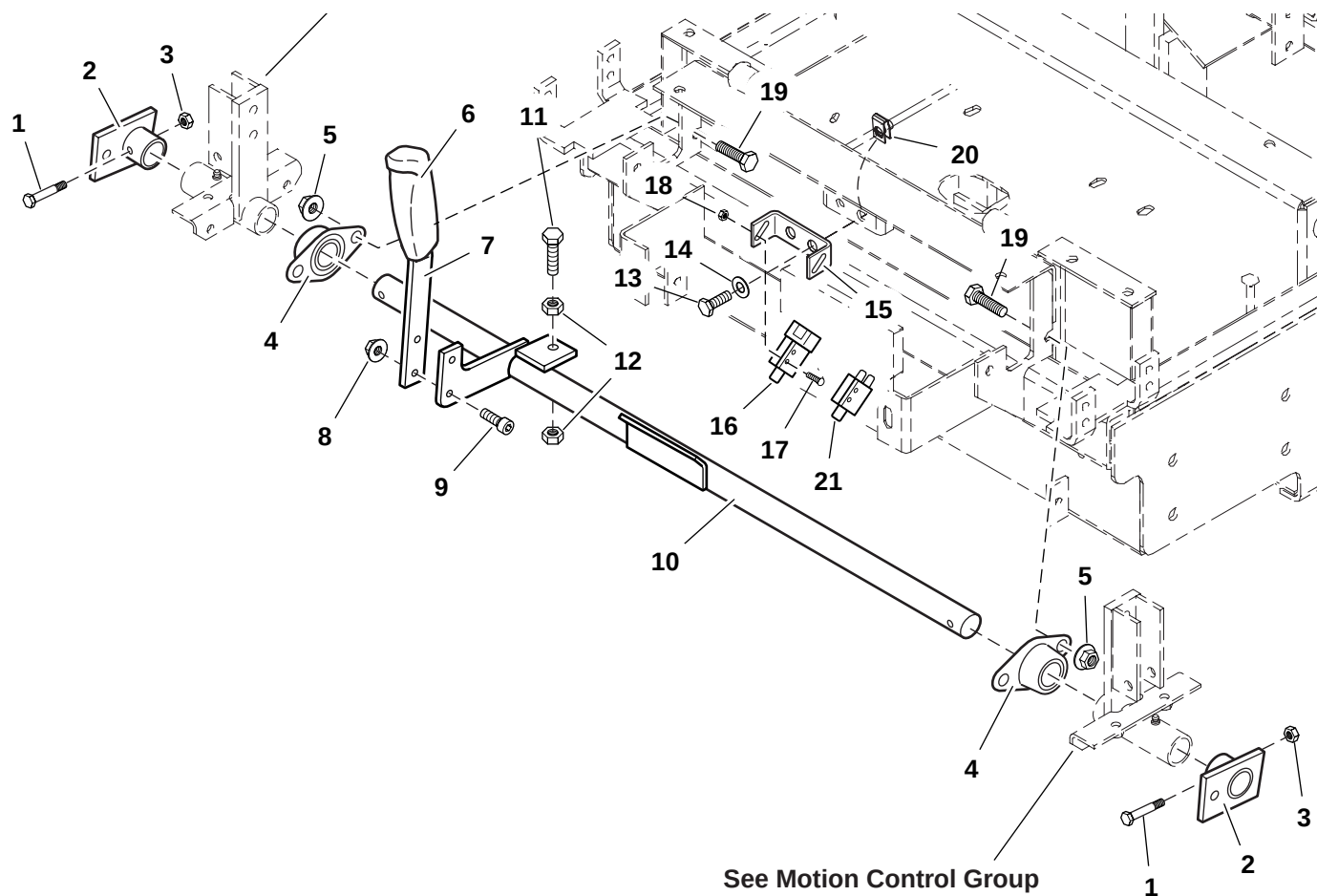
### Footnotes:

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The above parts group applies to the following Model Nos.:  
IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

## Parking Brake Group-Upper

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

### ***Parking Brake Group-Upper***

| REF NO. | PART NO. | QTY. | DESCRIPTION                               |
|---------|----------|------|-------------------------------------------|
| 1       | 25010-12 | 2    | CAPSCREW, Hex Hd, 1/4-20 x 1-1/2          |
| 2       | 45781    | 2    | BRAKE LINKAGE PIVOT                       |
| 3       | 25287    | 2    | NUT, Hex, Side Lock, 1/4-20               |
| 4       | 22379    | 2    | BEARING, Flange                           |
| 5       | 25128    | 4    | NUT, Hex, Serrated Flange, 3/8-16         |
| 6       | 1722302  | 1    | GRIP                                      |
| 7       | 46208    | 1    | BRAKE HANDLE                              |
| 8       | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18        |
| 9       | 25267-6  | 2    | CAPSCREW, Socket Button Hd, 5/16-18 x 3/4 |
| 10      | 45788    | 1    | BRAKE SHAFT                               |
| 11      | 25013-16 | 1    | CAPSCREW, Hex Hd, 3/8-16 x 2              |
| 12      | 25084    | 2    | NUT, Hex, Jam, 3/8-16                     |
| 13      | 25011-6  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 3/4           |
| 14      | 25155    | 2    | WASHER, 5/16                              |
| 15      | 46067    | 1    | BRAKE SWITCH MOUNT                        |
| 16      | 22095    | 1    | SWITCH, NO/NC                             |
| 17      | 25270    | 4    | SCREW, #10-24 x 1                         |
| 18      | 25029    | 4    | NUT, Hex, #10-24                          |
| 19      | 25013-6  | 4    | CAPSCREW, Hex Hd, 3/8-16 x 3/4            |
| 20      | 22308    | 2    | BODY CLIP, 5/16-18                        |
| 21      | 21451    | 1    | SWITCH, NO (31hp model)                   |
| *       | 22095    | 1    | SWITCH, NO/NC (27hp model)                |

### **Footnotes:**

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**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

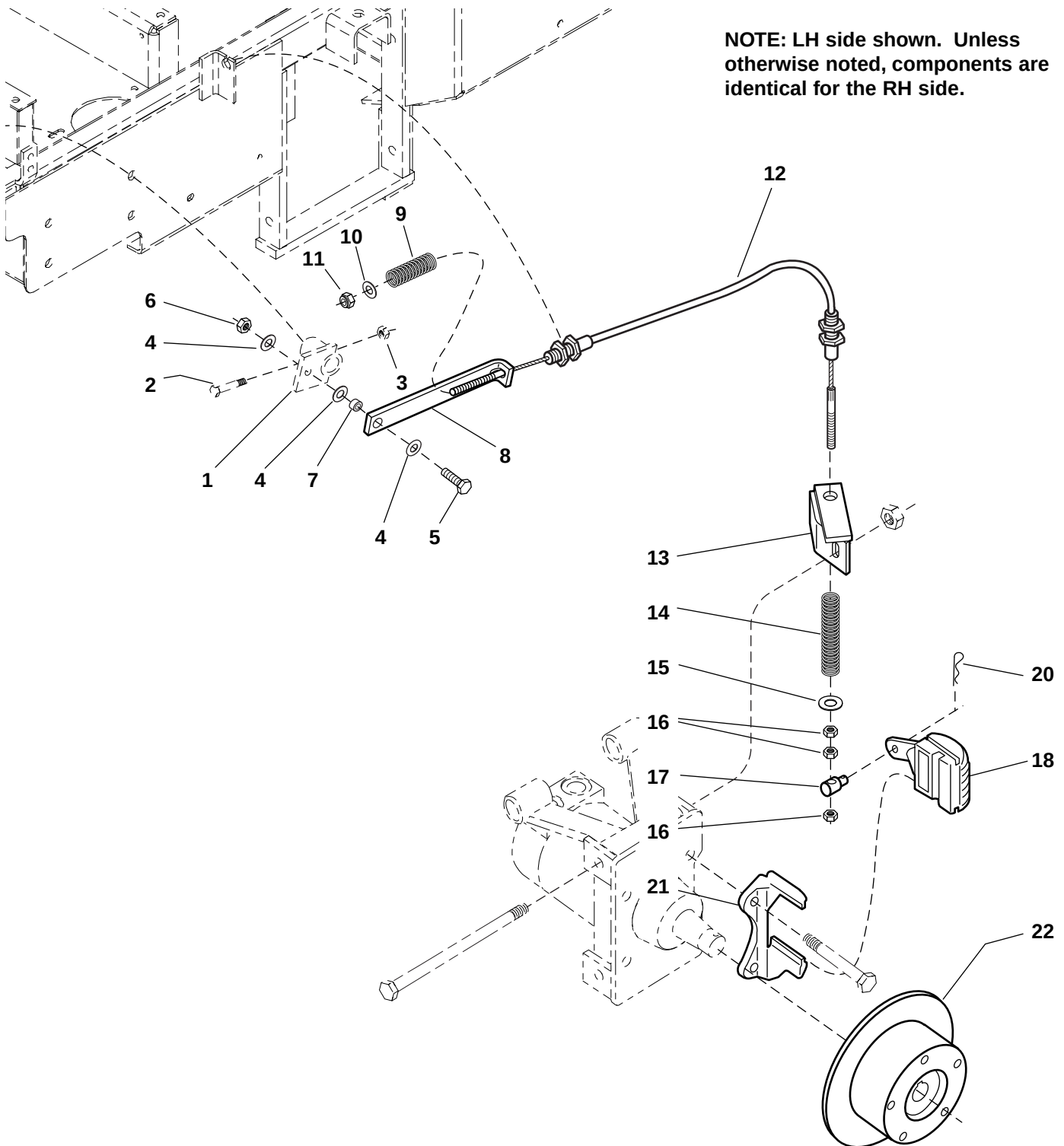
ISZ 31 HP Briggs & Stratton, Diahatsu Rider

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

## Parking Brake Group-Lower

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

**Parking Brake Group-Lower**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                |
|---------|----------|------|--------------------------------------------|
| 1       | *        | 2    | BRAKE LINKAGE PIVOT                        |
| 2       | *        | 2    | CAPSCREW, Hex Hd, 1/4-20 x 1-3/4           |
| 3       | *        | 2    | NUT, Hex, Nylon Lock, 1/4-20               |
| 4       | 25156    | 6    | WASHER, 3/8                                |
| 5       | 25013-8  | 2    | CAPSCREW, Hex Hd, 3/8-16 x 1               |
| 6       | 25100    | 2    | NUT, Hex, Side Lock, 3/8-16                |
| 7       | 41930    | 2    | SPACER, Pivot                              |
| 8       | 45777    | 2    | LINK, Brake Lock                           |
| 9       | 22361    | 2    | SPRING, Compression                        |
| 10      | 25155    | 2    | WASHER, 5/16                               |
| 11      | 25045    | 2    | NUT, Hex, Nylon Lock, 5/16-24              |
| 12      | 22209    | 2    | CABLE, Brake                               |
| 13      | 45604    | 1    | BRACKET, Cable Mount-LH                    |
| 14      | 21494    | 2    | SPRING, Compression                        |
| 15      | 25164    | 2    | WASHER, Fender, 5/16                       |
| 16      | 25033    | 6    | NUT, Hex, 5/16-24                          |
| 17      | 45947    | 2    | ADJUSTER, Brake Linkage                    |
| 18      | 22342    | 1    | BRAKE CALIPER, LH                          |
| 19      | 22341    | 1    | BRAKE CALIPER, RH (not shown)              |
| *       | 22249    |      | Brake Pad Kit (fits both LH & RH calipers) |
| 20      | 25211    | 2    | HAIRPIN CLIP                               |
| 21      | 22340    | 2    | MOUNT, Brake Caliper                       |
| 22      | 22339    | 2    | HUB, 8" Brake Disc                         |
| 23      | 45605    | 1    | BRACKET, Cable Mount-RH (not shown)        |

**Footnotes:**

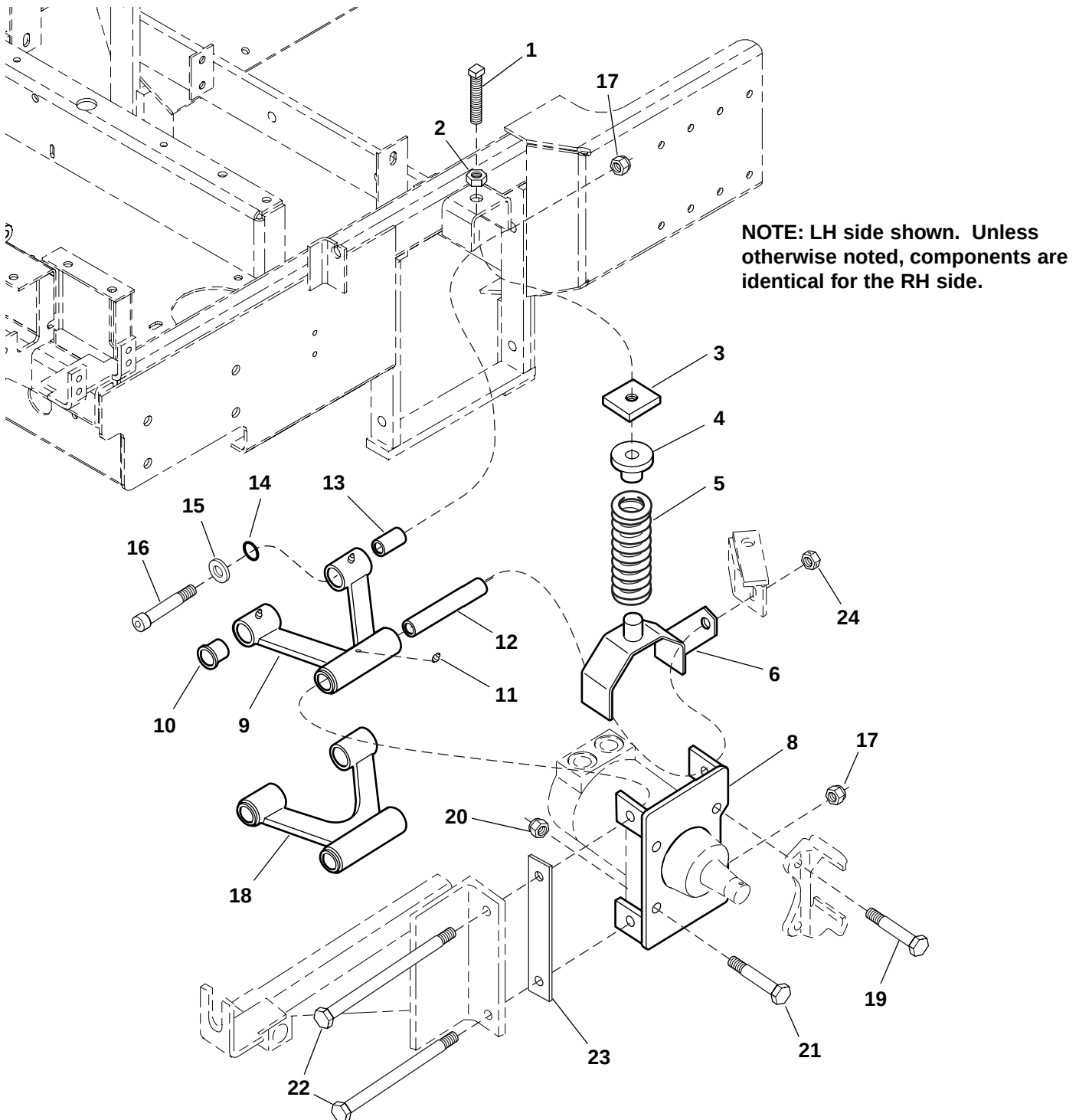
Ref 1-3, see Parking Brake Group-Upper

**The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Rear Suspension Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31  
IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider  
ISZ 27 HP Kawasaki Rider



### **Rear Suspension Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                      |
|---------|----------|------|----------------------------------|
| 1       | 25298    | 2    | SET SCREW, Square Hd, 1/2-13 x 3 |
| 2       | 25301    | 2    | NUT, Hex, Jam, 1/2-13            |
| 3       | 45904    | 2    | SPRING COMPRESSION PLATE         |
| 4       | 45898    | 2    | SPRING RETAINER                  |
| 5       | 22323    | 2    | SPRING, Suspension               |
| 6       | 45601    | 1    | SPRING SADDLE-LH                 |
| 7       | 45602    | 1    | SPRING SADDLE-RH (not shown)     |
| 8       | 45588    | 2    | WHEEL MOTOR MOUNT                |
| 9       | 45304    | 2    | SUSPENSION A-ARM, Upper          |
| 10      | 22250    | 16   | BUSHING, Flange                  |
| 11      | 20095    | 12   | GREASE FITTING                   |
| 12      | 45305    | 4    | PIVOT SLEEVE, Long               |
| 13      | 45306    | 8    | PIVOT SLEEVE, Short              |
| 14      | 22269    | 8    | O-RING                           |
| 15      | 45307    | 8    | WASHER, A-Arm                    |
| 16      | 25294    | 8    | CAPSCREW, Allen Head, 1/2-13 x 3 |
| 17      | 25056    | 10   | NUT, Hex, Nylon Lock, 1/2-13     |
| 18      | 46761    | 2    | SUSPENSION A-ARM, Lower          |
| 19      | 25018-24 | 4    | CAPSCREW, Hex Hd, 1/2-20 x 3     |
| 20      | 25098    | 8    | NUT, Hex, Nylon Lock, 1/2-20     |
| 21      | 25018-20 | 4    | CAPSCREW, Hex Hd, 1/2-20 x 2-1/2 |
| 22      | 25017-52 | 4    | CAPSCREW, Hex Hd, 1/2-13 x 6-1/2 |
| 23      | 46059    | 2    | SPACER PLATE                     |
| 24      | 25332    | 2    | NUT, Hex, Side Lock, 1/2-13      |

### **Footnotes:**

**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

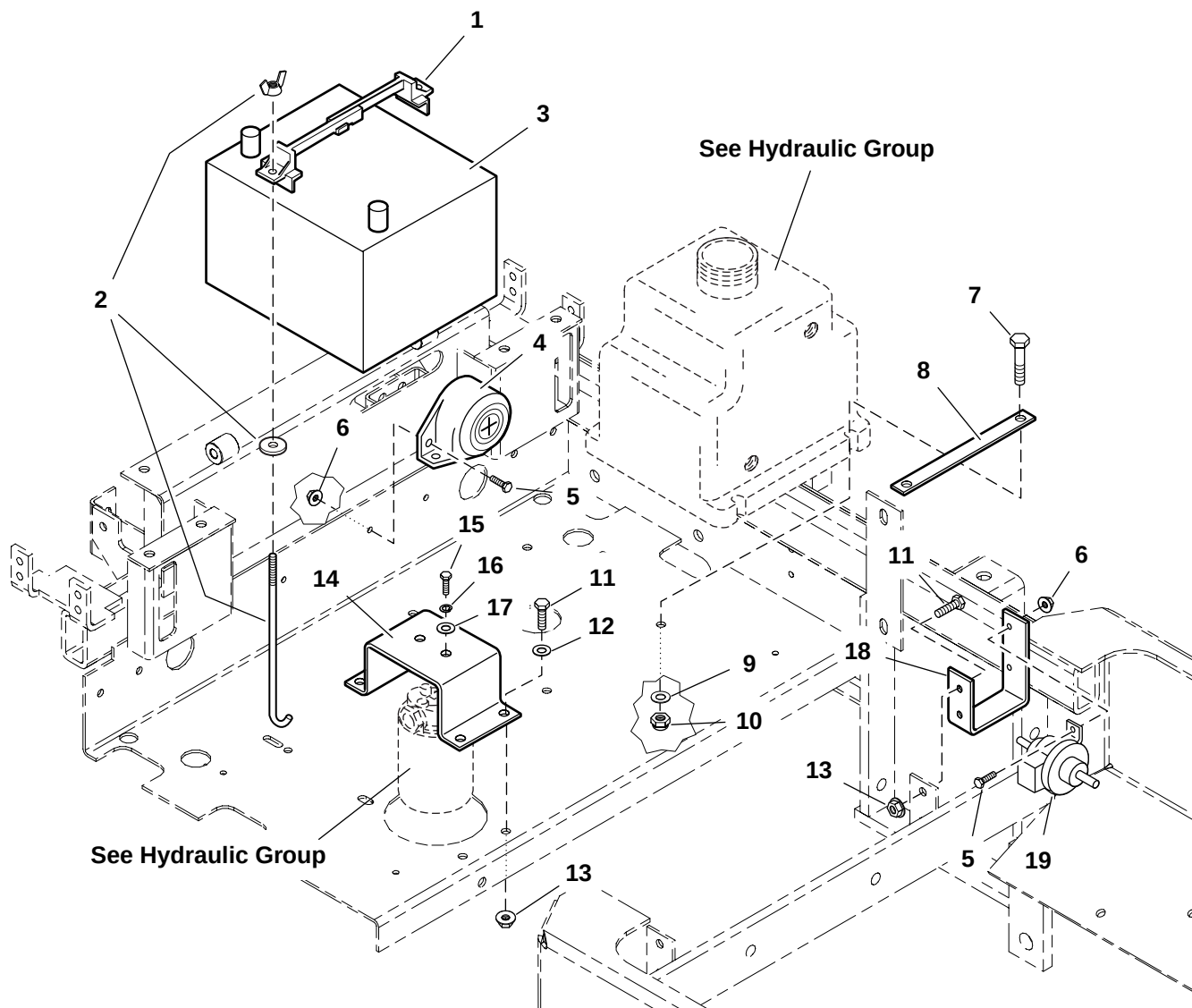
ISZ 31 HP Briggs & Stratton, Diahatsu Rider

IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

## Reservoir, Filter, Fuel Pump Mount, Battery & Alarm Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahsatsu Rider

ISZ 27 HP Kawasaki Rider

**Reservoir, Filter, Fuel Pump Mount, Battery & Alarm Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                        |
|---------|----------|------|------------------------------------|
| 1       | 22595    | 1    | BATTERY HOLD DOWN                  |
| 2       | 22596    | 2    | BATTERY HOLD DOWN BOLT             |
| 3       |          | 1    | BATTERY, 12V                       |
| 4       | 22594    | 1    | ALARM                              |
| 5       | 25010-8  | 4    | CAPSCREW, Hex Hd, 1/4-20 x 1       |
| 6       | 25126    | 4    | NUT, Hex, Serrated Flange, 1/4-20  |
| 7       | 25013-18 | 4    | CAPSCREW, Hex Hd, 3/8-16 x 2-1/4   |
| 8       | 46061    | 2    | PLATE, Hold Down                   |
| 9       | 25156    | 4    | WASHER, 3/8                        |
| 10      | 25096    | 4    | NUT, Hex, Nylon Lock, 3/8-16       |
| 11      | 25011-6  | 6    | CAPSCREW, Hex Hd, 5/16-18 x 3/4    |
| 12      | 25155    | 4    | WASHER, 5/16                       |
| 13      | 25127    | 6    | NUT, Hex, Serrated Flange, 5/16-18 |
| 14      | 46292    | 1    | MOUNT, Oil Filter                  |
| 15      | 25010-6  | 2    | CAPSCREW, Hex Hd, 1/4-20 x 3/4     |
| 16      | 25169    | 2    | WASHER, Lock, 1/4                  |
| 17      | 25154    | 2    | WASHER, 1/4                        |
| 18      | 46058    | 1    | FUEL PUMP MOUNT (31hp model)       |
| 19      | *        | 1    | FUEL PUMP (31hp model)             |

**Footnotes:**

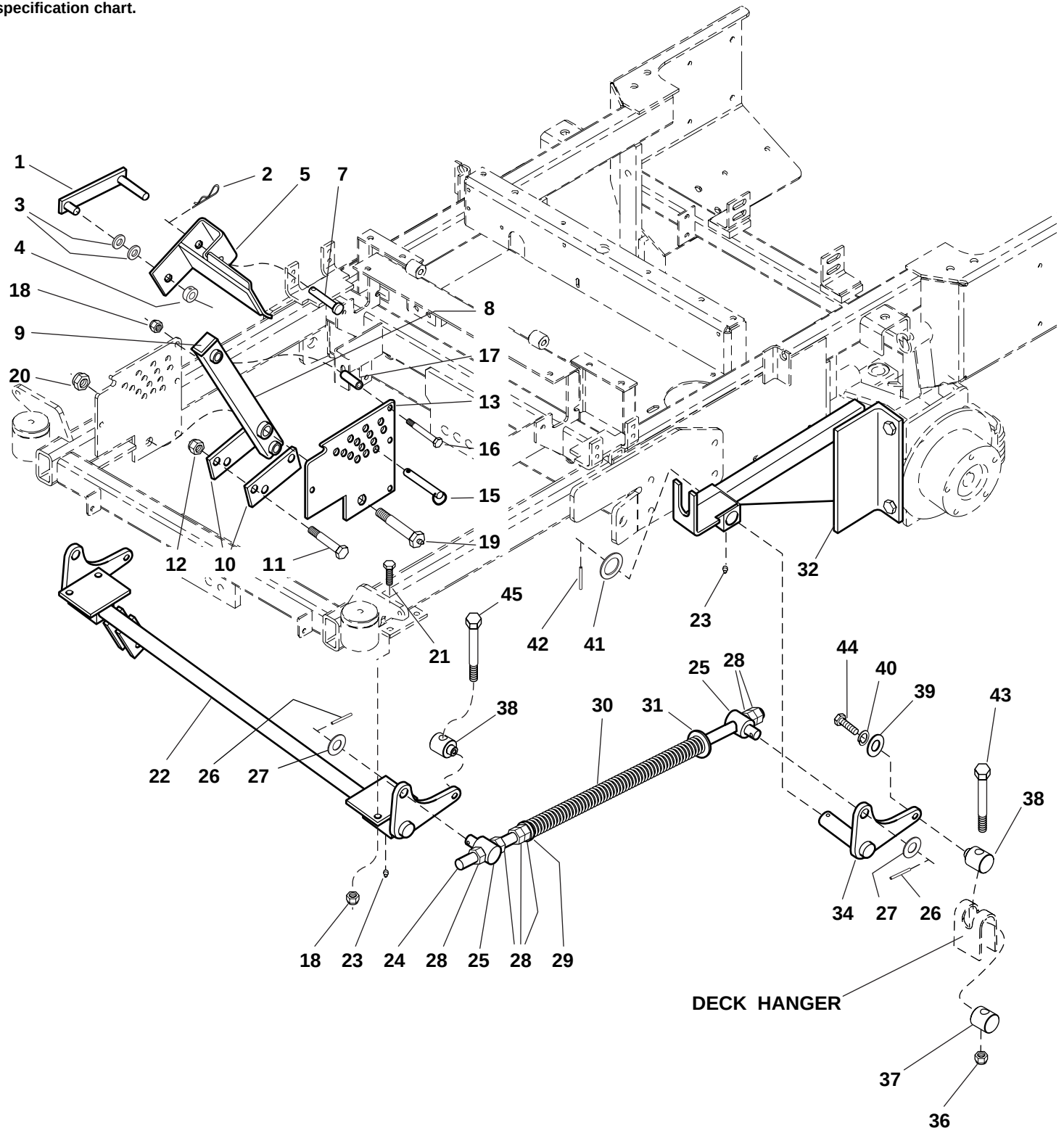
\* See you local Briggs & Stratton Dealer for service parts.

**The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## Deck Lift Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

**Deck Lift Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                              |
|---------|----------|------|------------------------------------------|
| 1       | 44999    | 1    | DECK LIFT LOCK                           |
| 2       | 25210    | 1    | HAIRPIN CLIP                             |
| 3       | 25158    | 2    | WASHER, 1/2                              |
| 4       | 10580    | 1    | COLLAR, 1/2 Set                          |
| 5       | 45058    | 1    | DECK LIFT PEDAL                          |
| 6       | 44875    | 1    | SAFETY WALK, Deck Lift Pedal (not shown) |
| 7       | 22044    | 1    | PIN, Clevis, 1/2 x 2-1/2                 |
| 8       | 44987    | 1    | ARM, Deck Lift Pivot                     |
| 9       | 22097    | 1    | CAP                                      |
| 10      | 44994    | 2    | LINK, Deck Lift                          |
| 11      | 25018-24 | 2    | CAPSCREW, Hex Hd, 1/2-20 x 3             |
| 12      | 25098    | 2    | NUT, Hex, Nylon Lock, 1/2-20             |
| 13      | 45379    | 1    | DECK HEIGHT PLATE                        |
| 14      | 22063    | 1    | DECAL, Deck Height (not shown)           |
| 15      | 22045    | 1    | PIN, 1/2 x 3                             |
| 16      | 25013-22 | 4    | CAPSCREW, Hex Hd, 3/8-16 x 2-3/4         |
| 17      | 44992    | 4    | SPACER, Lift Plate                       |
| 18      | 25096    | 8    | NUT, Hex, Nylon Lock, 3/8-16             |
| 19      | 44993    | 1    | LIFT PIVOT BOLT                          |
| 20      | 25282    | 1    | NUT, Hex Jam, Nylon Lock, 5/8-11         |
| 21      | 25013-10 | 4    | CAPSCREW, Hex Hd, 3/8-16 x 1-1/4         |
| 22      | 45743    | 1    | DECK LIFT SHAFT & MOUNT ASSEMBLY         |
| 23      | 20095    | 4    | GREASE FITTING                           |
| 24      | 22393    | 2    | SPRING ROD                               |
| 25      | 45856    | 4    | SPRING ROD PIVOT                         |
| 26      | 22366    | 4    | PIN, Spring, 3/16 x 1-1/4                |
| 27      | 25281    | 4    | WASHER, 5/8                              |
| 28      | 25040    | 12   | NUT, Hex, 5/8-11                         |
| 29      | 41477    | 2    | SPACER                                   |
| 30      | 22333    | 2    | SPRING, Deck Lift                        |
| 31      | 25159    | 2    | WASHER, USS, 5/8                         |
| 32      | 45684    | 1    | REAR DECK LIFT FRAME-LH                  |
| 33      | 45685    | 1    | REAR DECK LIFT FRAME-RH (not shown)      |
| 34      | 45767    | 1    | DECK LIFT PIVOT-LH                       |
| 35      | 46766    | 1    | DECK LIFT PIVOT-RH (not shown)           |
| 36      | 25056    | 4    | NUT, Hex, Nylon lock, 1/2-13             |
| 37      | 45857    | 4    | DECK PIVOT Bushing                       |
| 38      | 45855    | 4    | LIFT BOLT PIVOT                          |
| 39      | 25155    | 4    | WASHER, 5/16                             |
| 40      | 25170    | 4    | WASHER, Lock, 5/16                       |
| 41      | 21253    | 2    | SHIM                                     |
| 42      | 25516    | 2    | PIN, Roll, 3/16 x 1-1/2                  |
| 43      | 25017-48 | 2    | CAPSCREW, Hex Hd 1/2-13 x 6              |
| 44      | 25012-6  | 4    | CAPSCREW, Hex Hd 5/16-20 x 3/4           |
| 45      | 25017-48 | 2    | CAPSCREW, Hex Hd, 1/2-13 x 6             |
|         |          |      | (72" mower deck, S/N 101-435)            |
| *       | 25017-64 | 2    | CAPSCREW, Hex Hd, 1/2-13 x 8             |
|         |          |      | (All 61" mower decks)                    |
|         |          |      | (72" mower deck, S/N 436 & up)           |

**Footnotes:**


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The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs &amp; Stratton, Diahatsu Rider

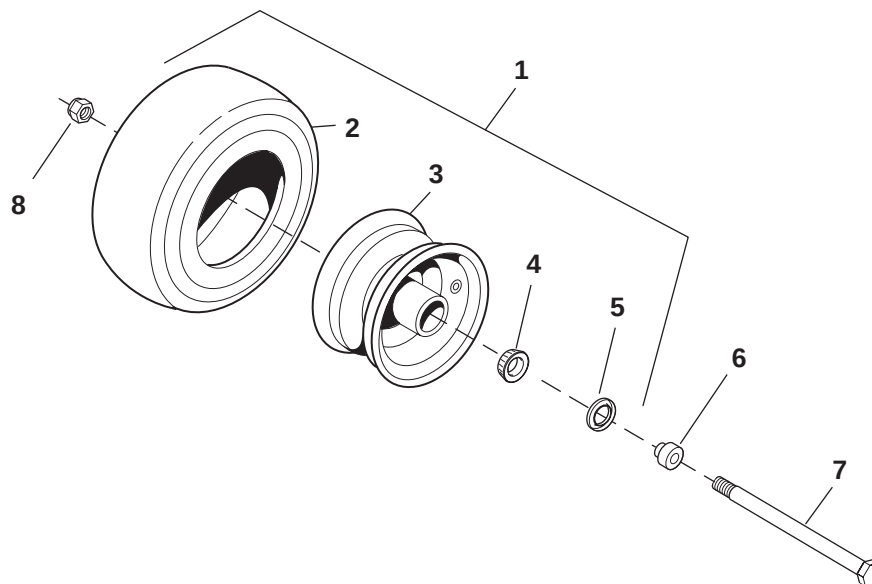
IS4000Z/KAV27

ISZ 27 HP Kawasaki Rider

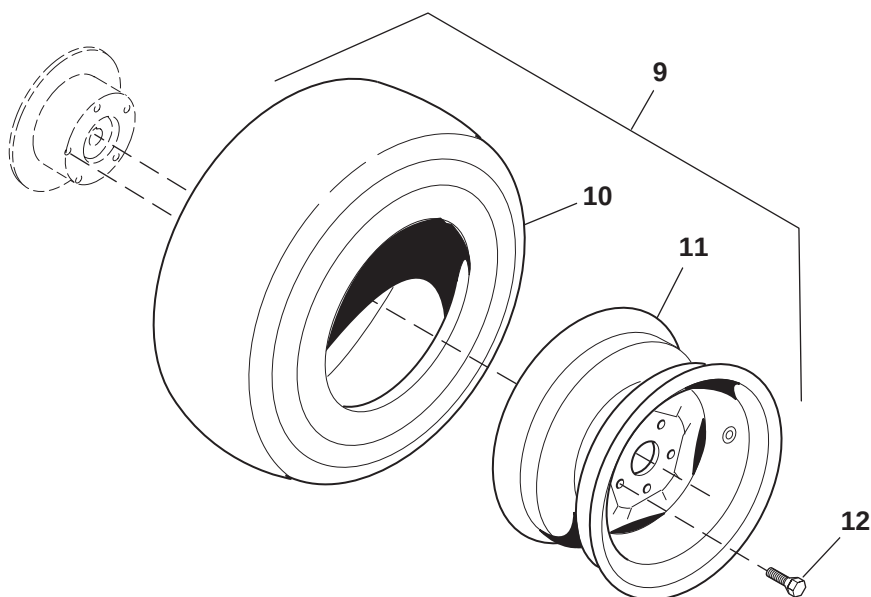
## Wheels & Tires Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

### Front Wheels & Tires



### Rear Wheels & Tires



The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

### ***Wheels & Tires Group***

| REF NO. | PART NO. | QTY. | DESCRIPTION                                                                 |
|---------|----------|------|-----------------------------------------------------------------------------|
| 1       | 23136    | 2    | WHEEL & TIRE ASSEMBLY, Front, 13 x 6.5 x 6, Complete (includes Ref 2-5)     |
| 2       | 22577    | 2    | TIRE, Front, 13 x 6.5 x 6                                                   |
| 3       | 23136-1  | 2    | WHEEL ASSEMBLY, Front, Complete (includes Ref 4 & 5)                        |
| 4       | 22631S-2 | 4    | BEARING, Taper Roller (2 per tire)                                          |
| 5       | 22631S-3 | 4    | GREASE SEAL (2 per tire)                                                    |
| 6       | 47103    | 4    | ADAPTER, Caster Wheel (2 per tire)r                                         |
| 7       | 25017-68 | 2    | CAPSCREW, Hex Head, 1/2-13 x 8-1/2                                          |
| 8       | 25056    | 2    | NUT, Hex Nylon Lock, 1/2-13                                                 |
| 9       | 22372S   | 2    | WHEEL & TIRE ASSEMBLY, Rear, 24 x 12 x 12, Complete, (includes Ref 10 & 11) |
| 10      | 22582    | 2    | TIRE, Rear, 24 x 12 x 12                                                    |
| 11      | 22583S   | 2    | WHEEL ASSEMBLY, Rear, for 24 x 12 x 12 Tires                                |
| 12      | 22215    | 10   | WHEEL LUG, 1/2 x 1-5/8                                                      |

### **Footnotes:**

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#### **The above parts group applies to the following Model Nos.:**

IS4000Z/D31  
IS4000Z/KAV27

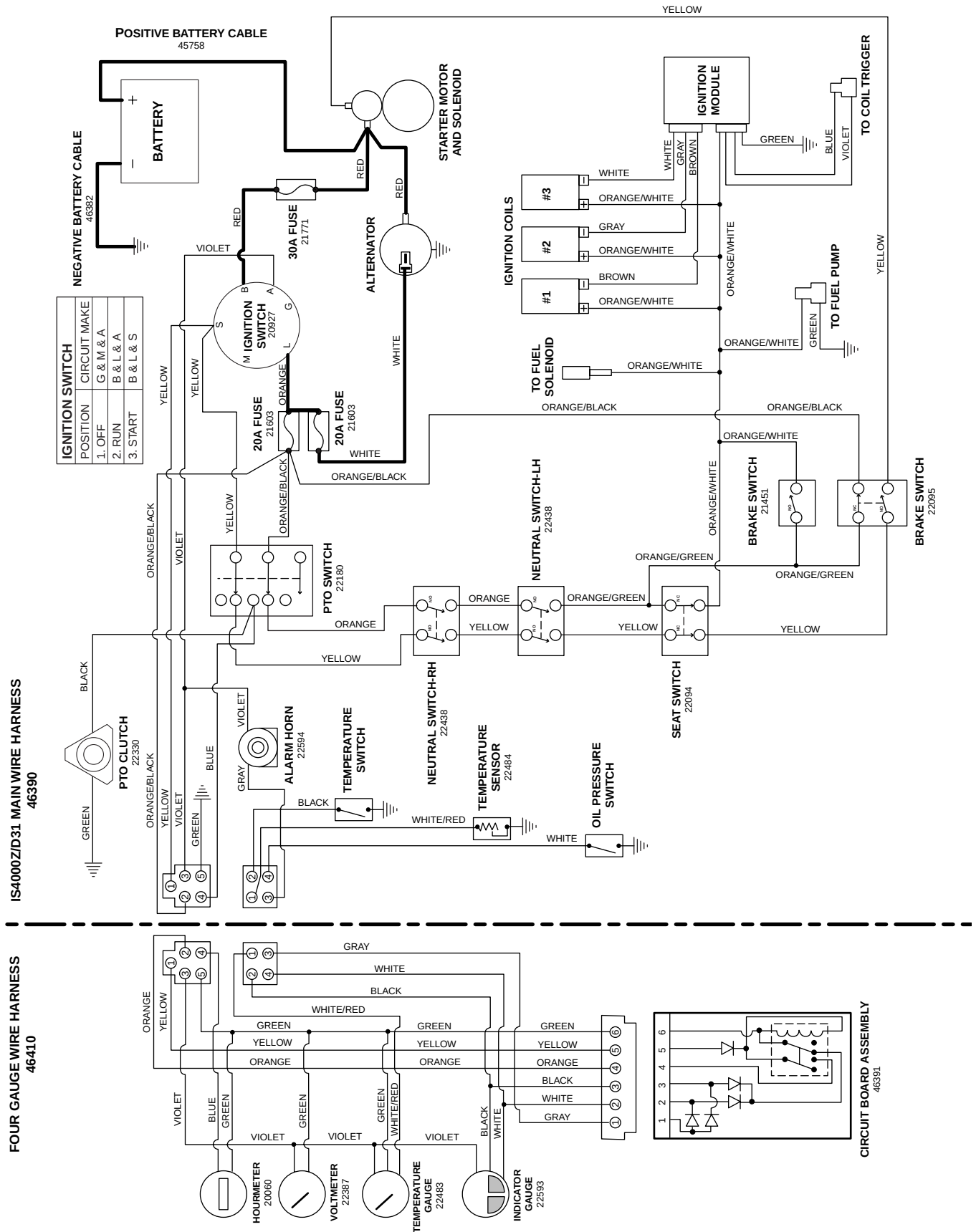
ISZ 31 HP Briggs & Stratton, Diahatsu Rider  
ISZ 27 HP Kawasaki Rider



IS4000Z/D31



## Charging Circuit

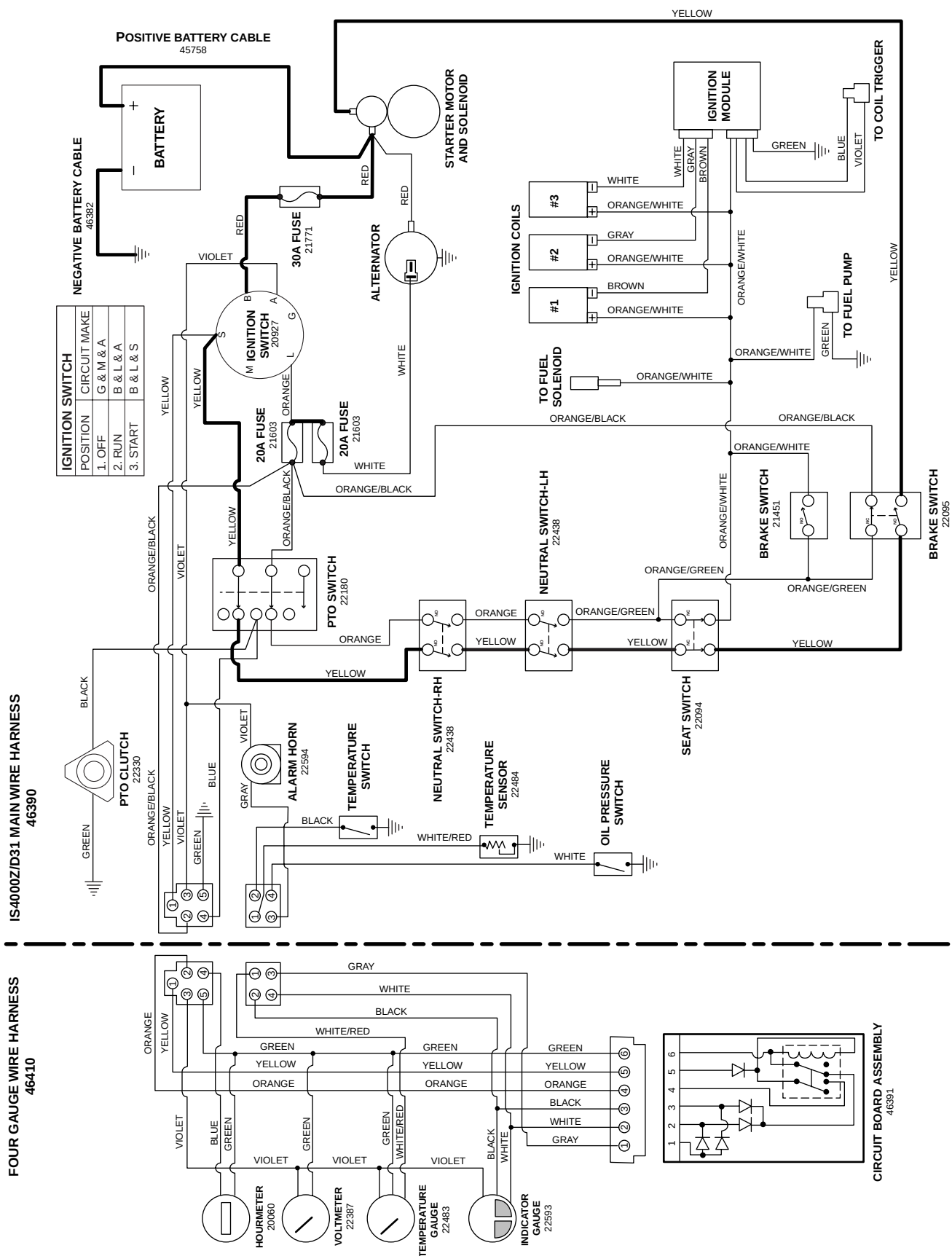


The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

# Cranking Circuit

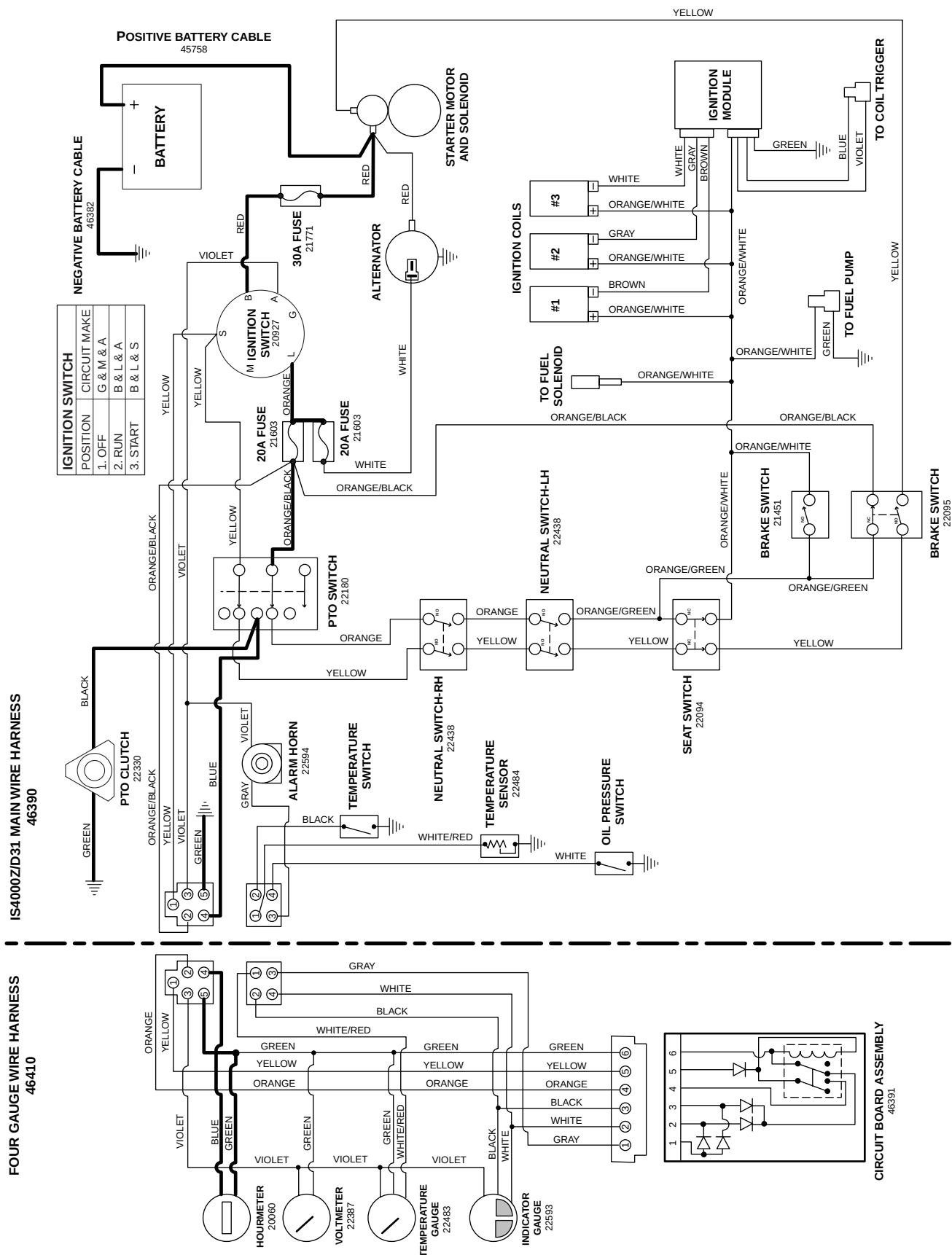


The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## PTO Clutch & Hourmeter Circuit

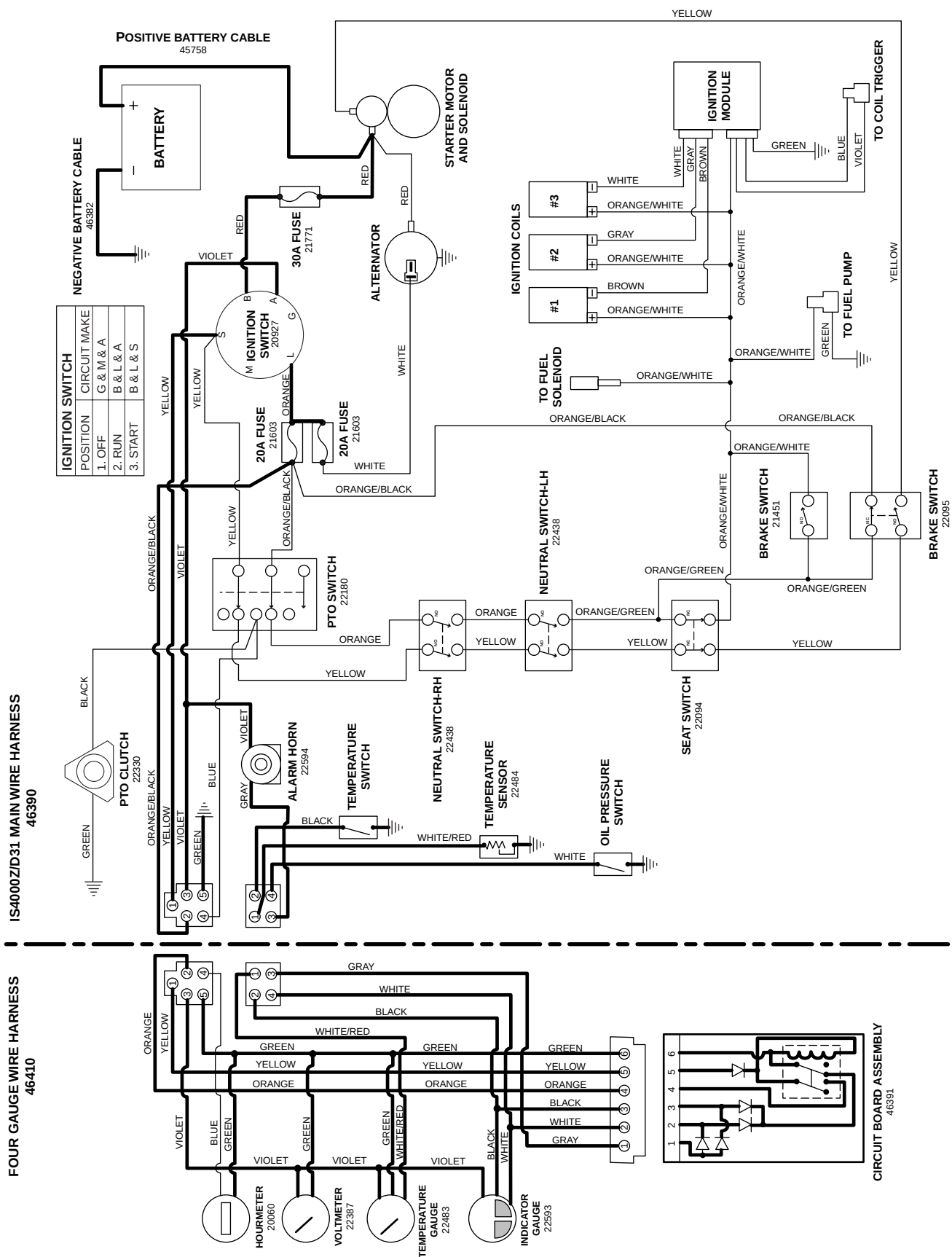


The above parts group applies to the following Model Nos.:

IS4000Z/D31

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## Gauges & Alarm Circuit

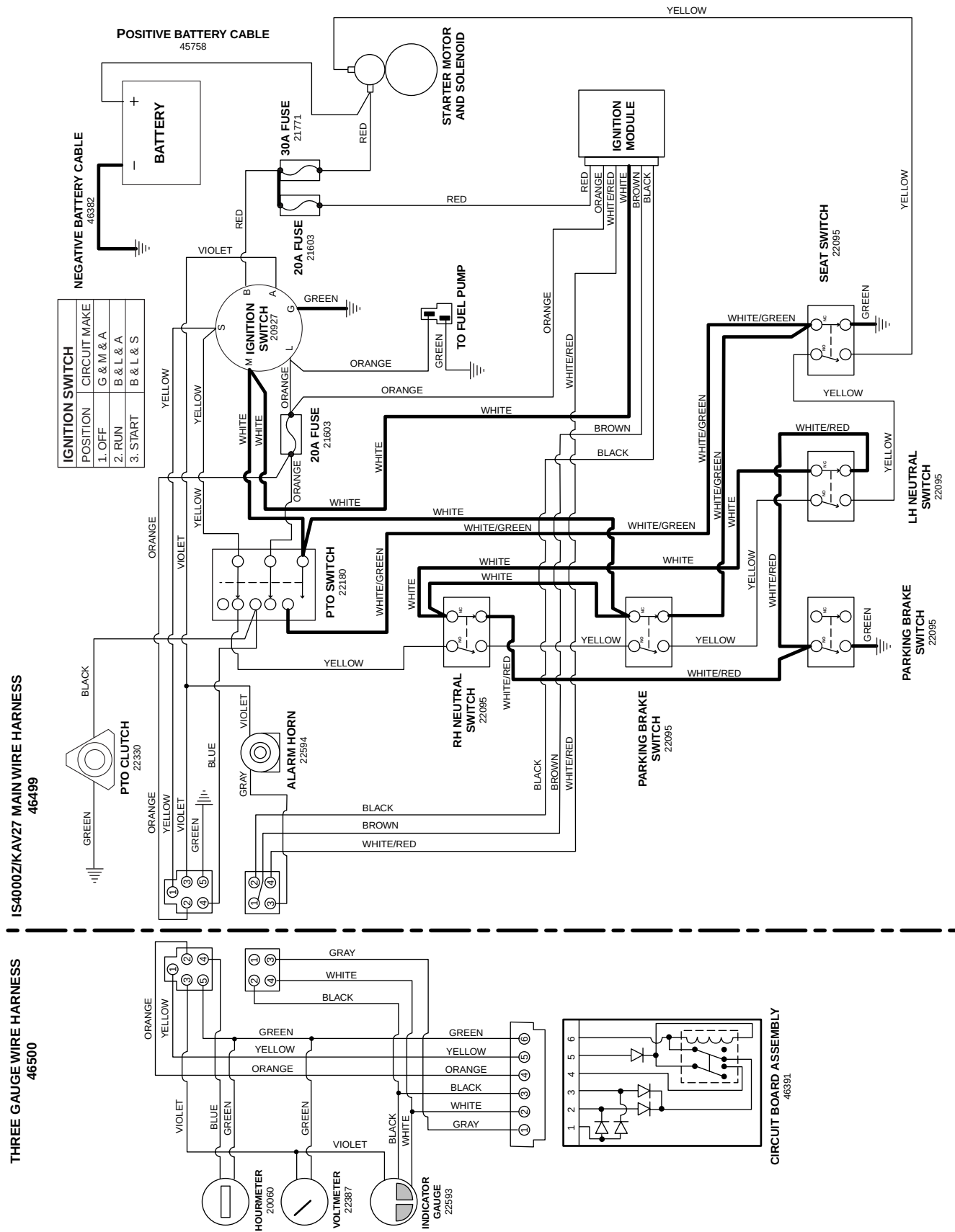


**The above parts group applies to the following Model Nos.:**

IS4000Z/D31

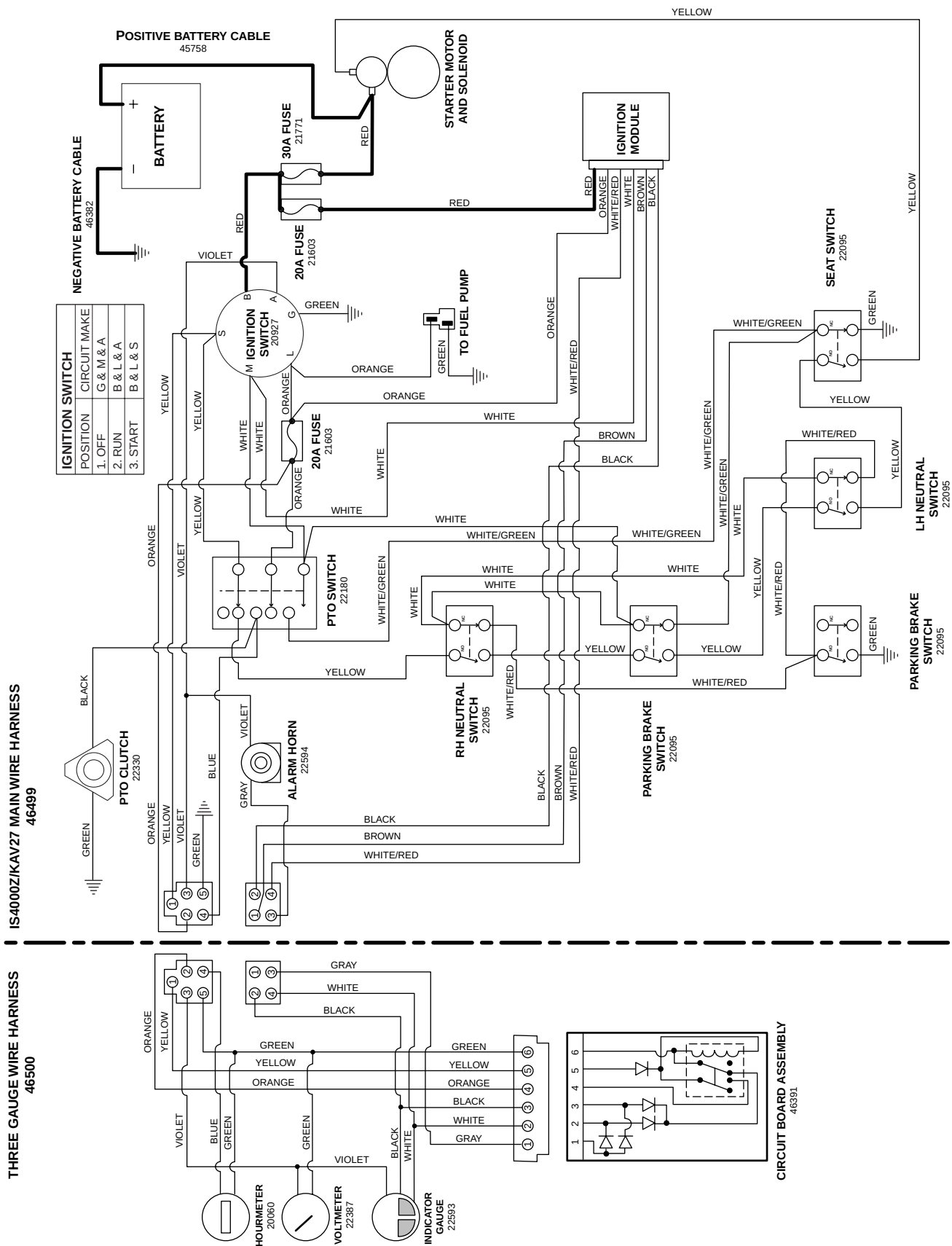
ISZ 31 HP Briggs & Stratton, Diahatsu Rider

## Ignition Grounding Circuit/Operator Presence



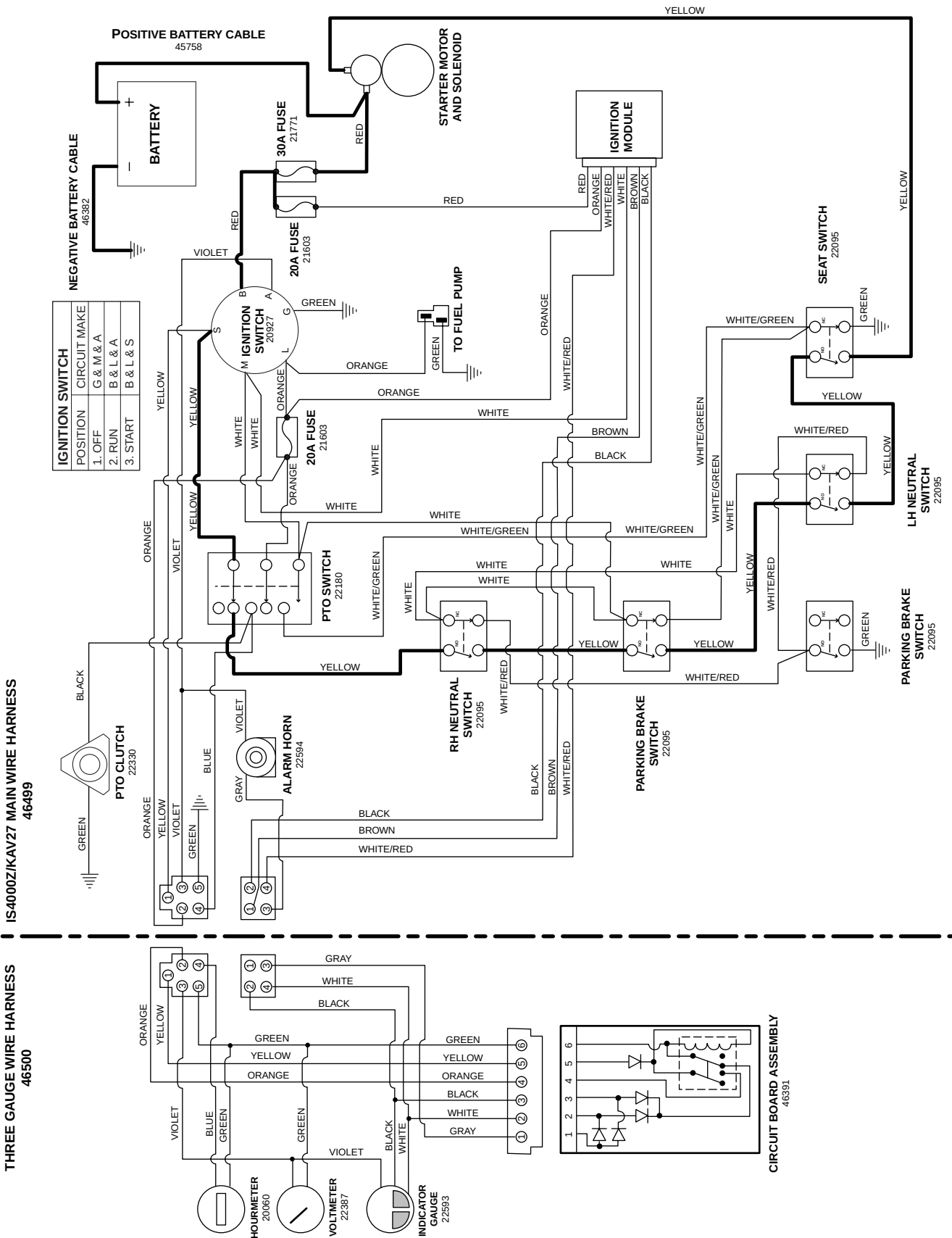
The above parts group applies to the following Model Nos.:  
 IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

## Charging Circuit



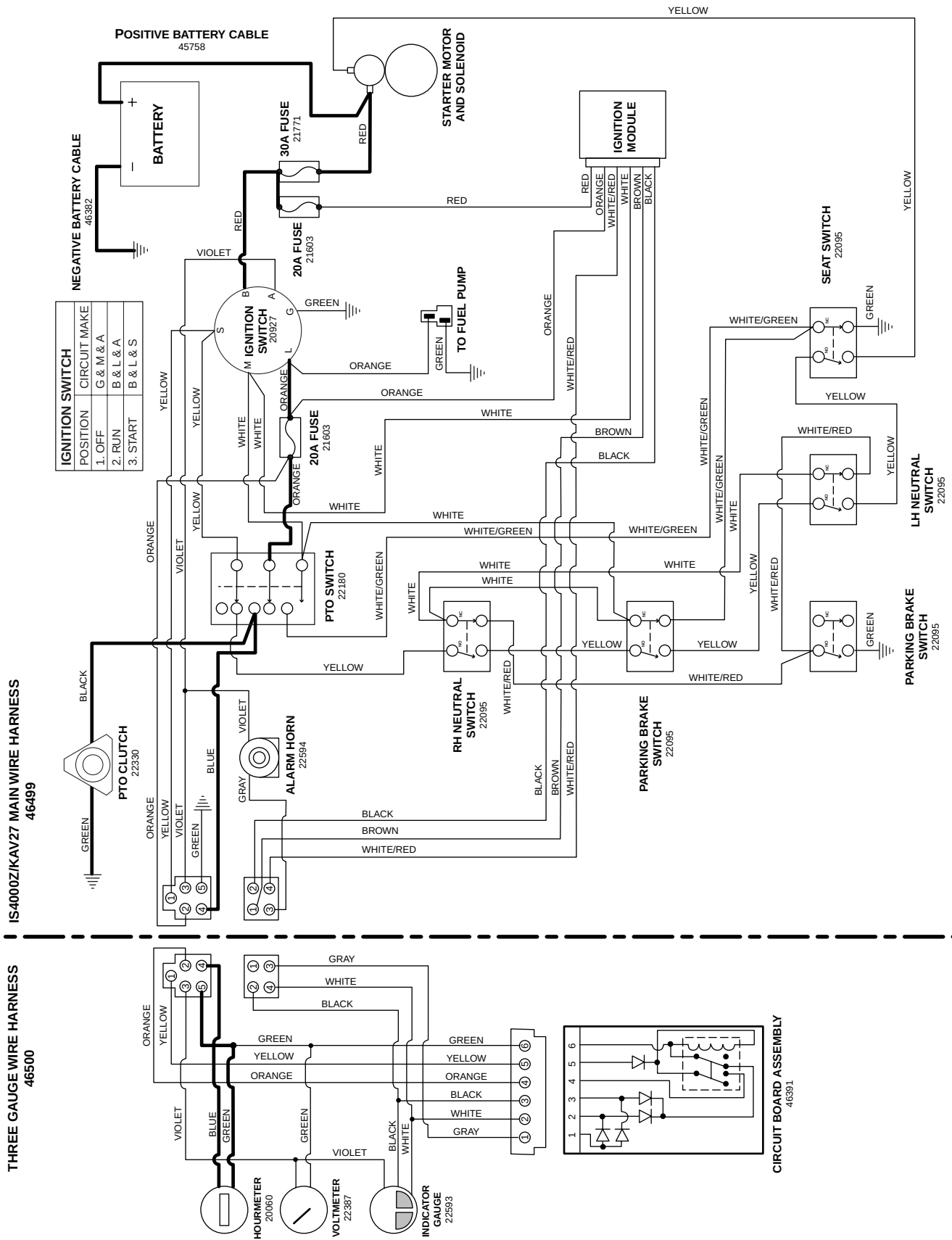
The above parts group applies to the following Model Nos.:  
 IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

# Cranking Circuit



The above parts group applies to the following Model Nos.:  
 IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

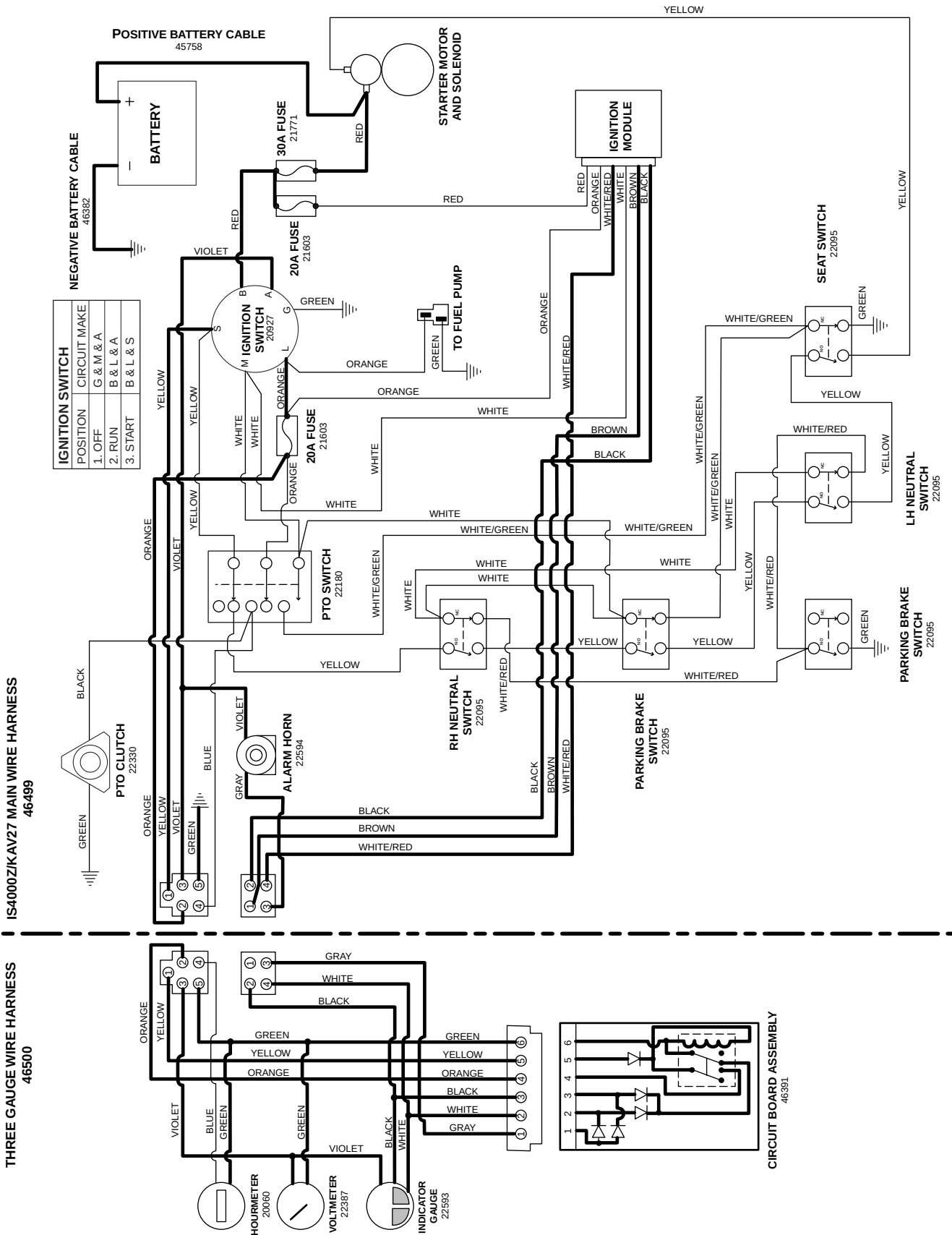
## PTO Clutch & Hourmeter Circuit



The above parts group applies to the following Model Nos.:  
 IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider



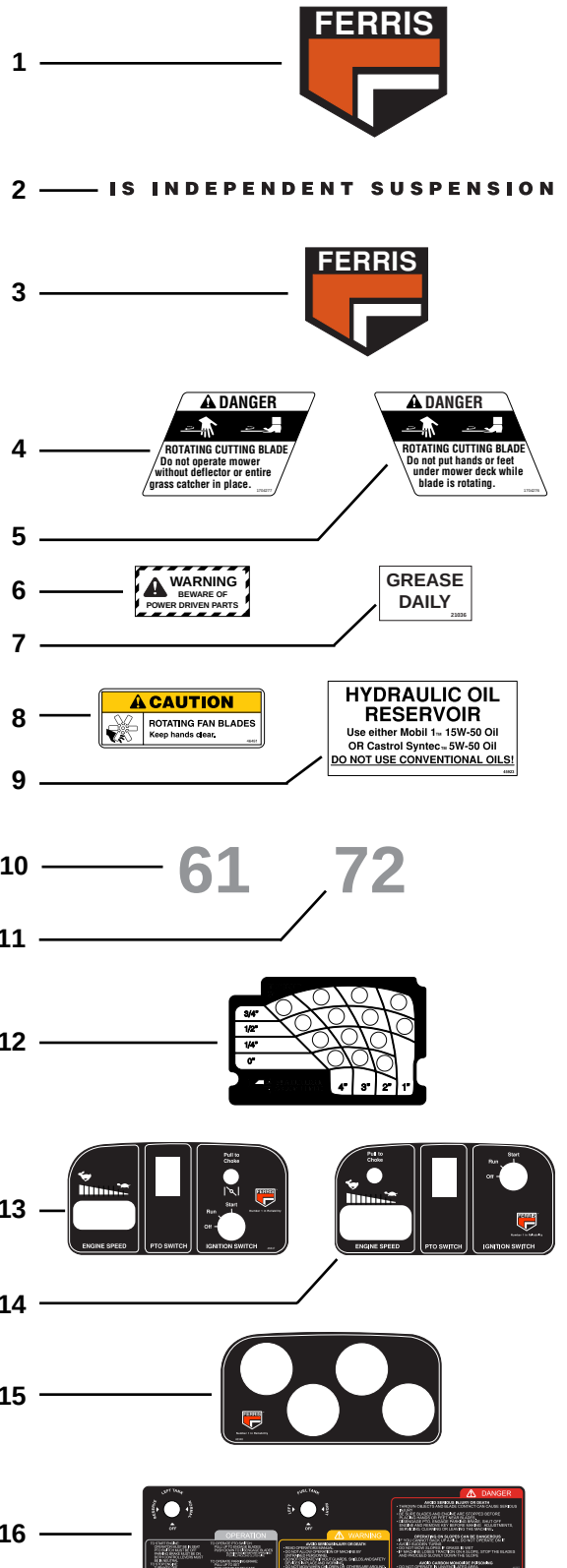
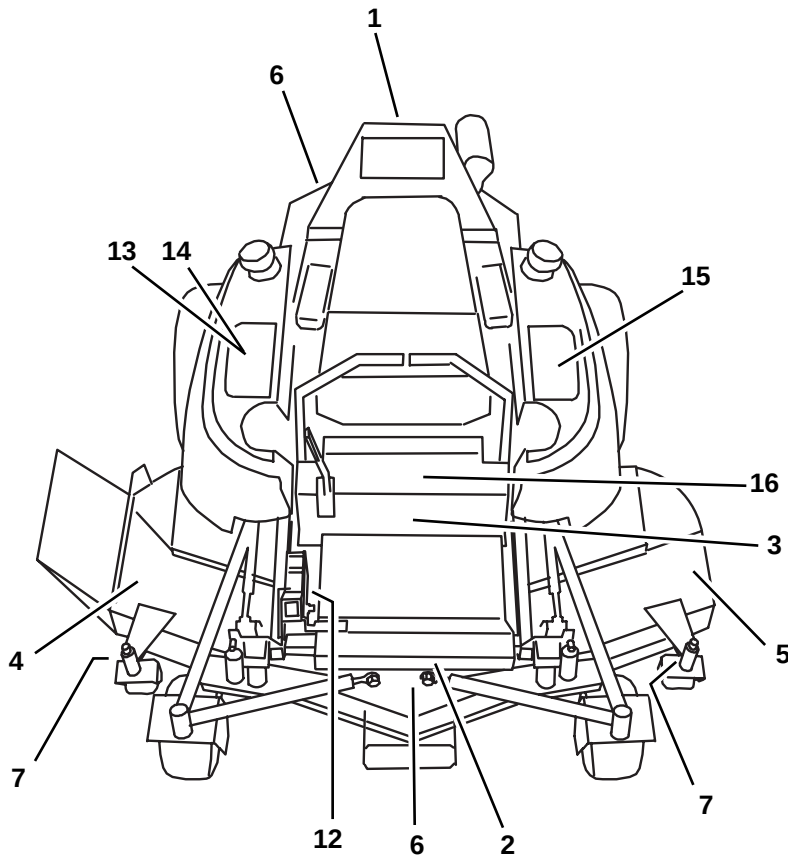
## Gauges & Alarm Circuit



The above parts group applies to the following Model Nos.:  
 IS4000Z/KAV27      ISZ 27 HP Kawasaki Rider

## Decals - Brand, Model, Safety & Operation

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



NOTE: Decals are NOT shown to scale.

The above parts group applies to the following Model Nos.:

IS4000Z/D31

IS4000Z/KAV27

ISZ 31 HP Briggs & Stratton, Diahatsu Rider

ISZ 27 HP Kawasaki Rider

**Decals - Brand, Model, Safety & Operation**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                                                          |
|---------|----------|------|--------------------------------------------------------------------------------------|
| 1       | 22227    | 1    | DECAL, Ferris Logo                                                                   |
| 2       | 22555    | 1    | DECAL, IS Independent Suspension                                                     |
| 3       | 22556    | 1    | DECAL, Ferris Logo                                                                   |
| 4       | 1704277  | 1    | DECAL, Danger (Chute In Place)                                                       |
| 5       | 1704276  | 1    | DECAL, Danger (Hand Under Deck)                                                      |
| 6       | 20337    | 2    | DECAL, Warning                                                                       |
| 7       | 21036    | 2    | DECAL, Grease Daily                                                                  |
| 8       | 46481    | 1    | DECAL, Caution Fan (located on radiator fan shroud)                                  |
| 9       | 45923    | 1    | DECAL, Oil Reservoir (located under seat)                                            |
| 10      | 22813    | 1    | DECAL, 61                                                                            |
| 11      | 22814    | 1    | DECAL, 72                                                                            |
| 12      | 22063    | 1    | DECAL, Lift Plate                                                                    |
| 13      | 46347    | 1    | DECAL, Control Panel<br>(IS4000Z/D31 - serial no. 101-275)                           |
| 14      | 46601    | 1    | DECAL, Control Panel<br>(IS4000Z/D31 - serial no. 276 & up)<br>(IS4000Z/KAV27 - all) |
| 15      | 46348    | 1    | DECAL, Gauge Panel                                                                   |
| 16      | 46387    | 1    | DECAL, Safety/Instruction                                                            |

**Footnotes:**

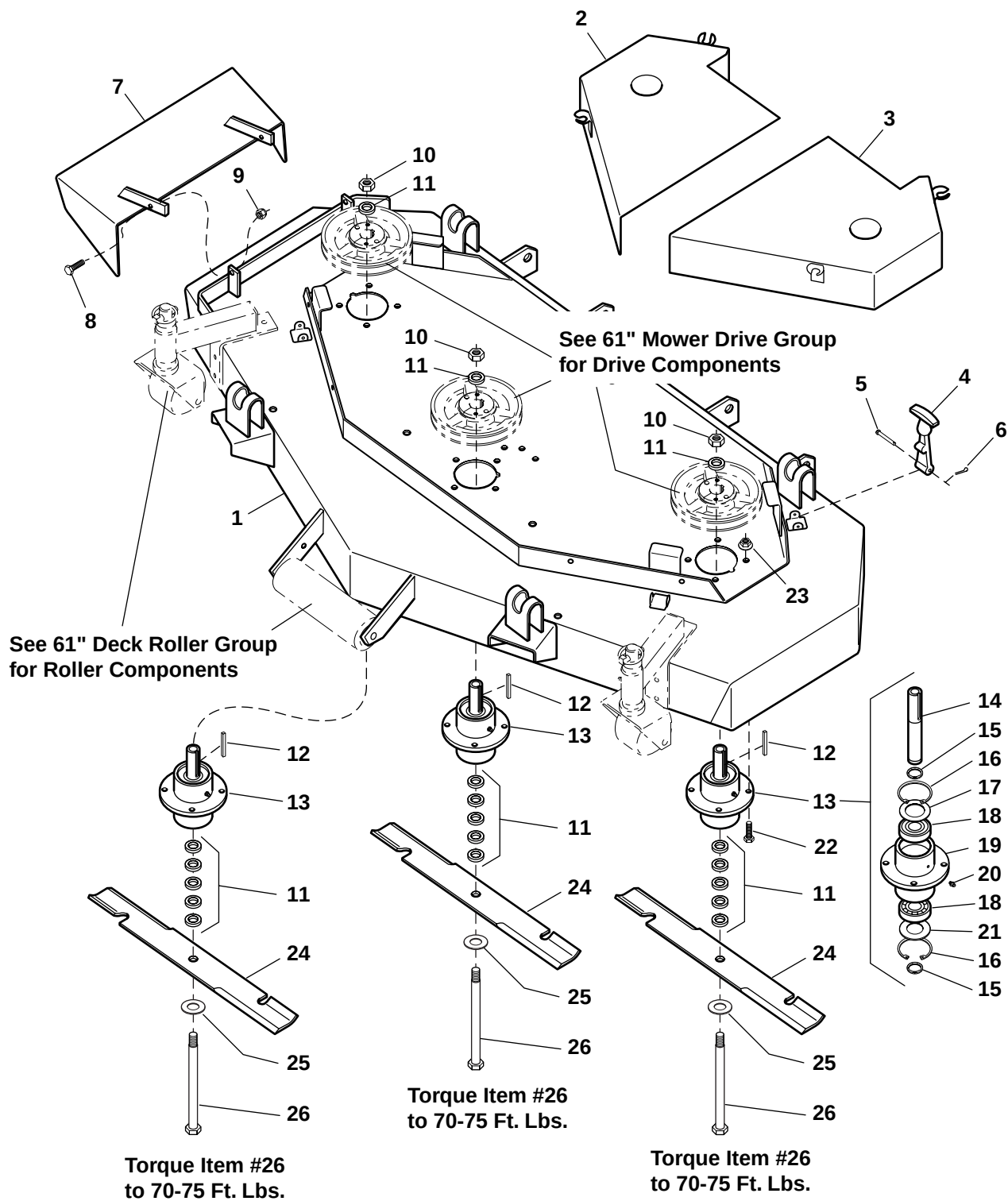
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**The above parts group applies to the following Model Nos.:**

|               |                                             |
|---------------|---------------------------------------------|
| IS4000Z/D31   | ISZ 31 HP Briggs & Stratton, Diahatsu Rider |
| IS4000Z/KAV27 | ISZ 27 HP Kawasaki Rider                    |

## 61" Mower Housing, Cover, Spindle & Blade Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

4000/61

IS4000Z 61" Mower Deck - serial no. 101-120 only

**61" Mower Housing, Cover, Spindle & Blade Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                     |
|---------|----------|------|-------------------------------------------------|
| 1       | 45801    | 1    | 61" MOWER HOUSING                               |
| 2       | 46642    | 1    | SPINDLE COVER-LH                                |
| 3       | 46643    | 1    | SPINDLE COVER-RH                                |
| 4       | 20841-1  | 4    | RUBBER LATCH                                    |
| 5       | 20841-4  | 4    | CLEVIS PIN                                      |
| 6       | 20841-5  | 4    | COTTER PIN                                      |
| 7       | 46445    | 1    | DISCHARGE CHUTE                                 |
| 8       | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1                   |
| 9       | 25057    | 2    | NUT, Hex, Nylon Lock, 5/16-18                   |
| 10      | 25040    | 3    | NUT, Hex, 5/8-11                                |
| 11      | 41477    | 18   | SPACER, Blade                                   |
| 12      | 50407-9  | 3    | KEY, 1/4 x 2-1/2                                |
| 13      | 30301    | 3    | SPINDLE ASSEMBLY, Complete (includes Ref 14-21) |
| 14      | 41480    | 3    | SPINDLE SHAFT                                   |
| 15      | 20864    | 6    | SNAP RING, External                             |
| 16      | 20866    | 6    | SNAP RING, Internal                             |
| 17      | 41653    | 3    | SPINDLE WASHER, Top                             |
| 18      | 20828    | 6    | BEARING                                         |
| 19      | 30293    | 3    | SPINDLE HOUSING                                 |
| 20      | 20095    | 3    | GREASE FITTING                                  |
| 21      | 41672    | 3    | SPINDLE WASHER, Bottom                          |
| 22      | 25011-10 | 12   | CAPSCREW, Hex Hd, 5/16-18 x 1-1/4               |
| 23      | 25139    | 12   | NUT, Hex, Serrated Flange, 5/16-18              |
| 24      | 20842    | 3    | MOWER BLADE                                     |
| 25      | 25159    | 3    | WASHER, USS, 5/8                                |
| 26      | 25019-76 | 3    | CAPSCREW, Hex Hd, 5/8-11 x 9-1/2                |

**Footnotes:**

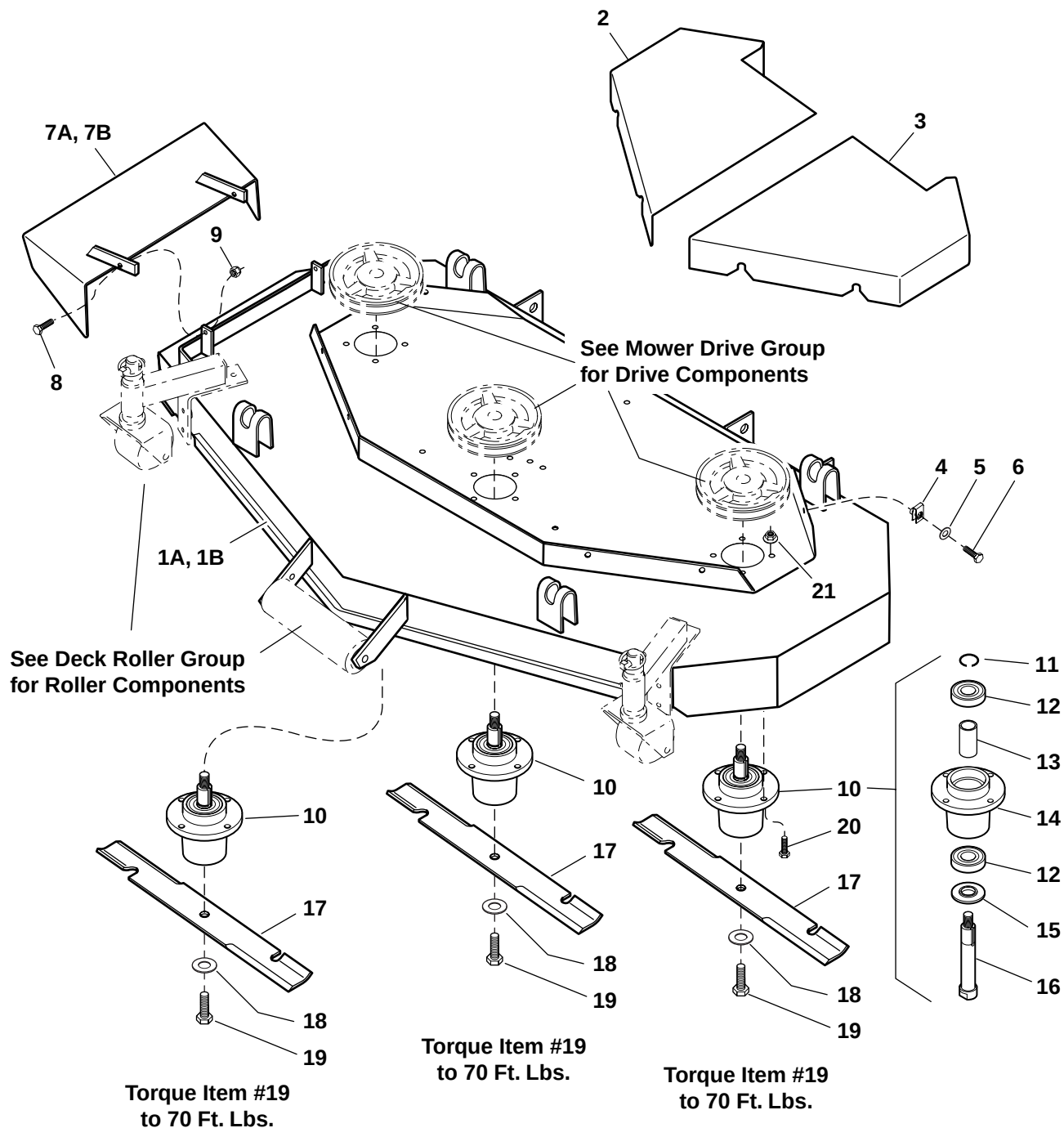
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The above parts group applies to the following Model Nos.:

4000/61      IS4000Z 61" Mower Deck - serial no. 101-120 only

## 61" Mower Housing, Cover, Spindle & Blade Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
4000/61 IS4000Z 61" Mower Deck - serial no. 121 & up

**61" Mower Housing, Cover, Spindle & Blade Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                     |
|---------|----------|------|-------------------------------------------------|
| 1A      | 46664    | 1    | 61" MOWER HOUSING (S/N 130-320)                 |
| 1B      | 47491    | 1    | 61" MOWER HOUSING (S/N 321 & up)                |
| 2       | 46440    | 1    | SPINDLE COVER-RH                                |
| 3       | 46441    | 1    | SPINDLE COVER-LH                                |
| 4       | 22308    | 6    | BODY CLIP, 5/16-18                              |
| 5       | 25155    | 6    | WASHER, 5/16                                    |
| 6       | 25011-6  | 6    | CAPSCREW, Hex Hd, 5/16-18 x 3/4                 |
| 7A      | 46445    | 1    | DISCHARGE CHUTE (S/N 121-320)                   |
| 7B      | 46985    | 1    | DISCHARGE CHUTE (S/N 321 & up)                  |
| 8       | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1                   |
| 9       | 25057    | 2    | NUT, Hex, Nylon Lock, 5/16-18                   |
| 10      | 46363    | 3    | SPINDLE ASSEMBLY, Complete (includes Ref 11-16) |
| 11      | 46363-6  | 3    | RING, Retaining                                 |
| 12      | 46363-5  | 6    | BEARING, Roller                                 |
| 13      | 46363-4  | 3    | SPACER, Bearing                                 |
| 14      | 46363-1  | 3    | SPINDLE HOUSING                                 |
| 15      | 46363-3  | 3    | TRASH SHIELD                                    |
| 16      | 46363-2  | 3    | SPINDLE SHAFT                                   |
| 17      | 20842    | 3    | MOWER BLADE                                     |
| 18      | 25159    | 3    | WASHER, USS, 5/8                                |
| 19      | 25320-14 | 3    | CAPSCREW, Hex Hd, 5/8-11 x 1-3/4                |
| 20      | 25011-9  | 12   | CAPSCREW, Hex Hd, 5/16-18 x 1-1/8               |
| 21      | 25139    | 12   | NUT, Hex, Serrated Flange, 5/16-18              |

**Footnotes:**

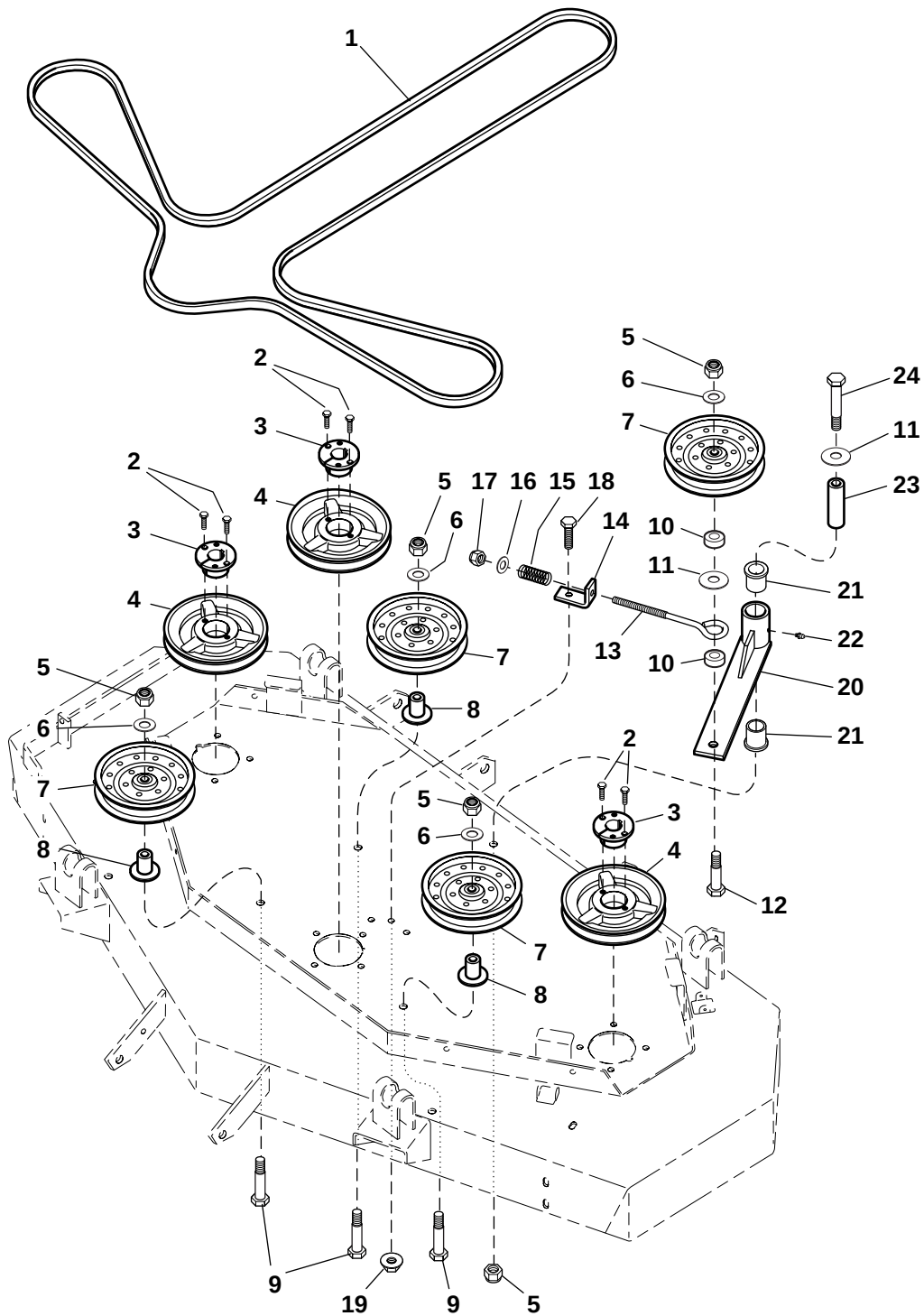
Serial No. 121-129, use Ref Nos. 1 thru 6 on page 63

**The above parts group applies to the following Model Nos.:**

4000/61 IS4000Z 61" Mower Deck - serial no. 121 & up

## 61" Mower Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

4000/61

IS4000Z 61" Mower Deck - serial no. 101-120 only



**61" Mower Drive Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1       | 22399    | 1    | BELT, 61" Deck                    |
| 2       | 25010-8  | 6    | CAPSCREW, Hex Hd, 1/4-20 x 1      |
| 3       | 20819    | 3    | HUB, Taper Lock                   |
| 4       | 20815    | 3    | PULLEY, Spindle                   |
| 5       | 25056    | 5    | NUT, Hex, Nylon Lock, 1/2-13      |
| 6       | 25158    | 4    | WASHER, 1/2                       |
| 7       | 21976    | 4    | PULLEY, Idler                     |
| 8       | 45024    | 3    | IDLER PULLEY MOUNT                |
| 9       | 25017-28 | 3    | CAPSCREW, Hex Hd, 1/2-13 x 3-1/2  |
| 10      | 45023    | 2    | IDLER SPACER                      |
| 11      | 25150    | 2    | WASHER, USS, 1/2                  |
| 12      | 25017-24 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 3      |
| 13      | 21811    | 1    | EYEBOLT                           |
| 14      | 42142    | 1    | SPRING ANCHOR                     |
| 15      | 21680    | 1    | SPRING, Compression               |
| 16      | 25156    | 1    | WASHER, 3/8                       |
| 17      | 25096    | 1    | NUT, Hex, Nylon Lock, 3/8-16      |
| 18      | 25013-8  | 1    | CAPSCREW, Hex Hd, 3/8-16 x 1      |
| 19      | 25128    | 1    | NUT, Hex, Serrated Flange, 3/8-16 |
| 20      | 45019    | 1    | IDLER ARM                         |
| 21      | 21541    | 2    | BUSHING, Flange                   |
| 22      | 20095    | 1    | GREASE FITTING                    |
| 23      | 45022    | 1    | IDLER ARM PIVOT SHAFT             |
| 24      | 25017-36 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 4-1/2  |

**Footnotes:**

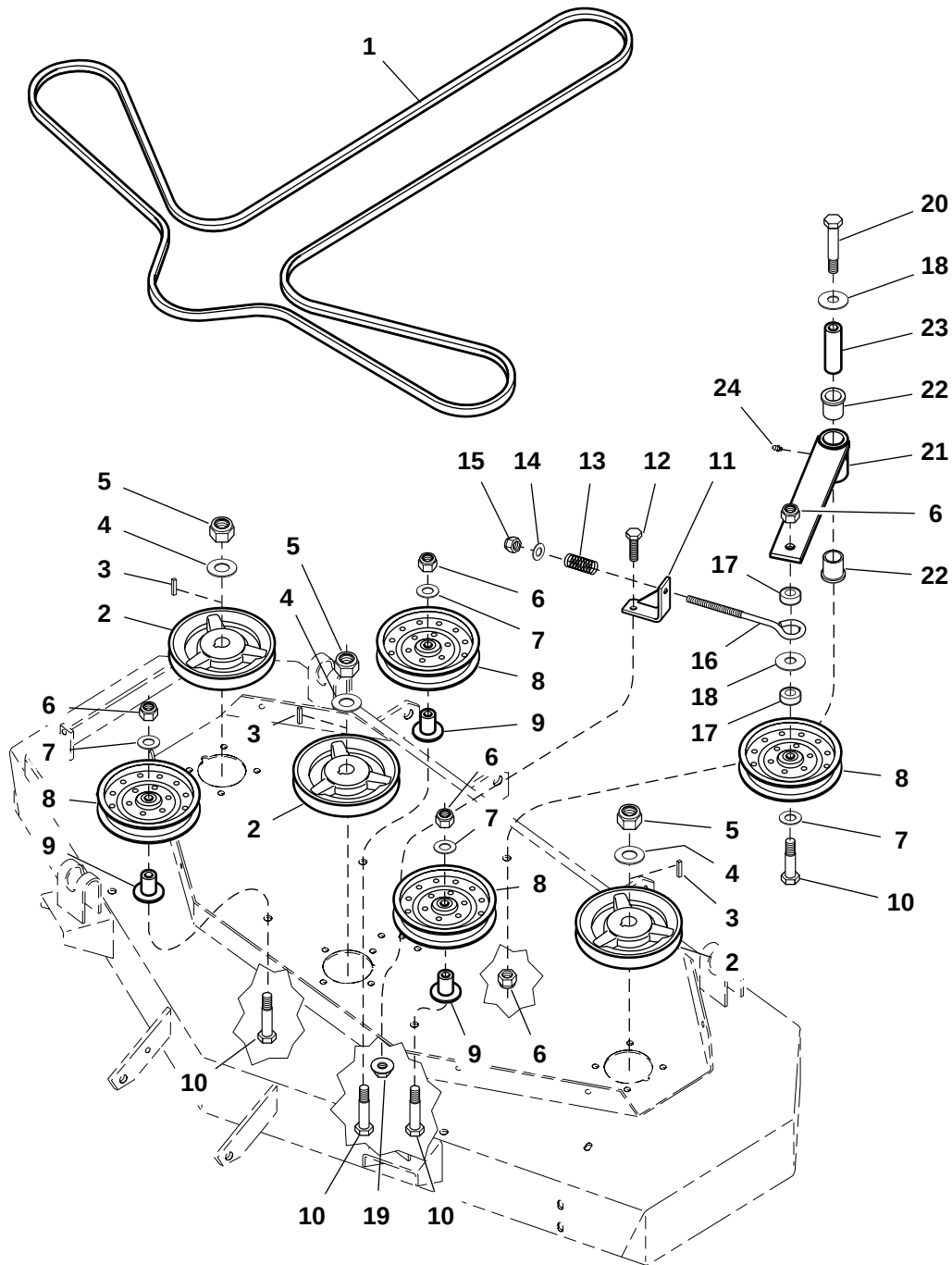
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The above parts group applies to the following Model Nos.:

4000/61      IS4000Z 61" Mower Deck - serial no. 101-120 only

## 61" Mower Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
4000/61      IS4000Z 61" Mower Deck - serial no. 121 & up

**61" Mower Drive Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1       | 22399    | 1    | BELT, 61" Deck                    |
| 2       | 46466    | 3    | SPINDLE PULLEY                    |
| 3       | 50407-5  | 3    | KEY, 1/4 x 1-1/4                  |
| 4       | 25318    | 3    | WASHER, Spring                    |
| 5       | 25319    | 3    | NUT, Hex, Nylon Lock, 5/8-18      |
| 6       | 25056    | 5    | NUT, Hex, Nylon Lock, 1/2-13      |
| 7       | 25158    | 4    | WASHER, 1/2                       |
| 8       | 21976    | 4    | PULLEY, Idler                     |
| 9       | 46434    | 3    | IDLER PULLEY MOUNT                |
| 10      | 25017-24 | 4    | CAPSCREW, Hex Hd, 1/2-13 x 3      |
| 11      | 46432    | 1    | SPRING ANCHOR                     |
| 12      | 25013-8  | 1    | CAPSCREW, Hex Hd, 3/8-16 x 1      |
| 13      | 22788    | 1    | SPRING, Compression               |
| 14      | 25156    | 1    | WASHER, 3/8                       |
| 15      | 25096    | 1    | NUT, Hex, Nylon Lock, 3/8-16      |
| 16      | 21811    | 1    | EYEBOLT                           |
| 17      | 45023    | 2    | IDLER SPACER                      |
| 18      | 25150    | 2    | WASHER, USS, 1/2                  |
| 19      | 25128    | 1    | NUT, Hex, Serrated Flange, 3/8-16 |
| 20      | 25017-36 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 4-1/2  |
| 21      | 45019    | 1    | IDLER ARM                         |
| 22      | 21541    | 2    | BUSHING, Flange                   |
| 23      | 45022    | 1    | IDLER ARM PIVOT SHAFT             |
| 24      | 20095    | 1    | GREASE FITTING                    |

**Footnotes:**

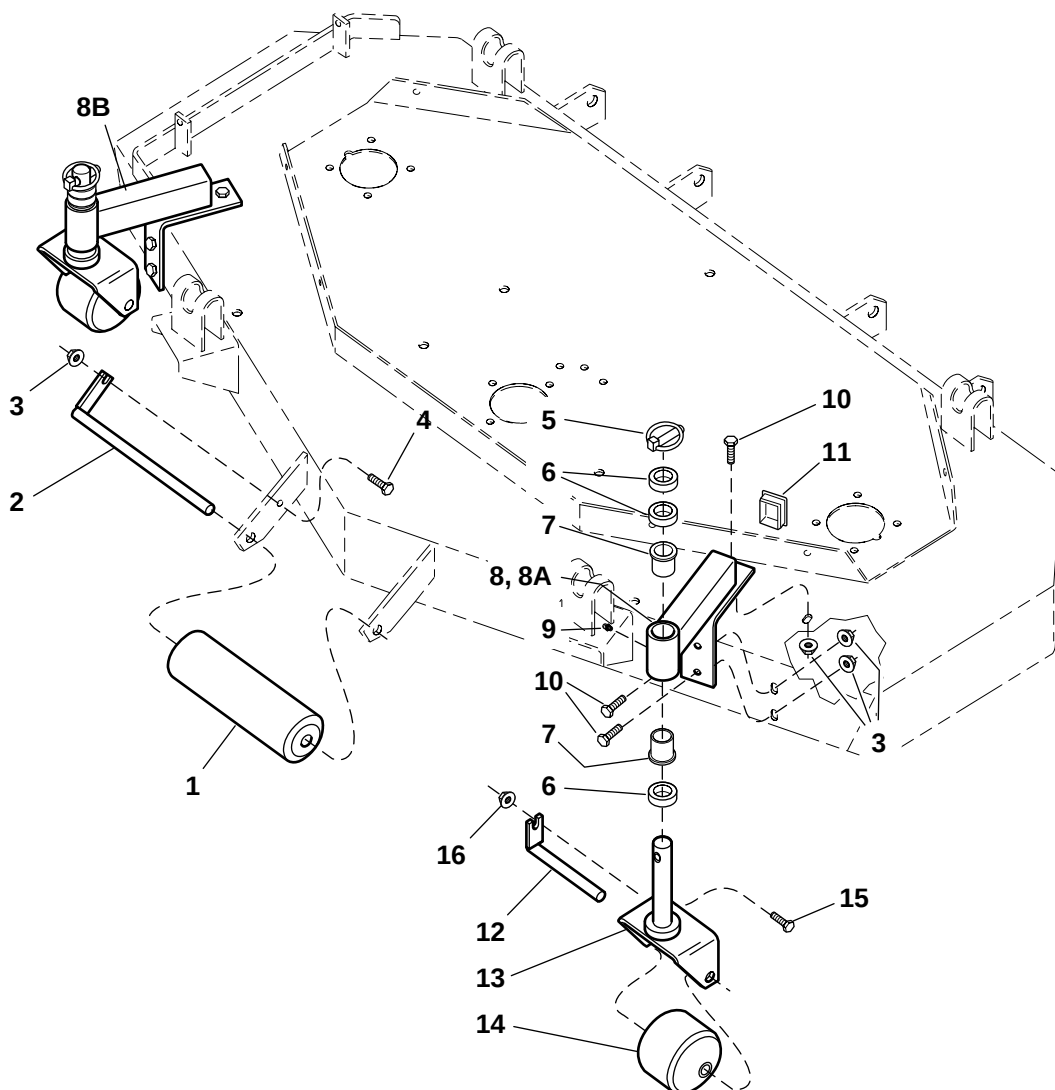
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The above parts group applies to the following Model Nos.:

4000/61      IS4000Z 61" Mower Deck - serial no. 121 & up

## 61" Deck Roller Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:

4000/61

IS4000Z 61" Mower Deck

**61" Deck Roller Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                        |
|---------|----------|------|------------------------------------|
| 1       | 20785    | 1    | ROLLER, Nose                       |
| 2       | 41655    | 1    | ROLLER PIN                         |
| 3       | 25128    | 7    | NUT, Hex, Serrated Flange, 3/8-16  |
| 4       | 25013-8  | 1    | CAPSCREW, Hex Hd, 3/8-16 x 1       |
| 5       | 20655    | 2    | LYNCH PIN                          |
| 6       | 41476    | 6    | SPACER, Caster                     |
| 7       | 21541    | 4    | BUSHING, Flange                    |
| 8       | 45185    | 2    | CASTER MOUNT ARM (S/N 101-320)     |
| 8A      | 47501    | 1    | CASTER MOUNT ARM-LH (S/N 321 & up) |
| 8B      | 47502    | 1    | CASTER MOUNT ARM-RH (S/N 321 & up) |
| 9       | 20095    | 2    | GREASE FITTING                     |
| 10      | 25013-6  | 6    | CAPSCREW, Hex Hd, 3/8-16 x 3/4     |
| 11      | 22098    | 2    | CAP, Plastic                       |
| 12      | 45034    | 2    | CASTER ROLLER PIN                  |
| 13      | 45188    | 2    | CASTER YOKE                        |
| 14      | 22060    | 2    | ROLLER, Caster                     |
| 15      | 25011-6  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 3/4    |
| 16      | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18 |

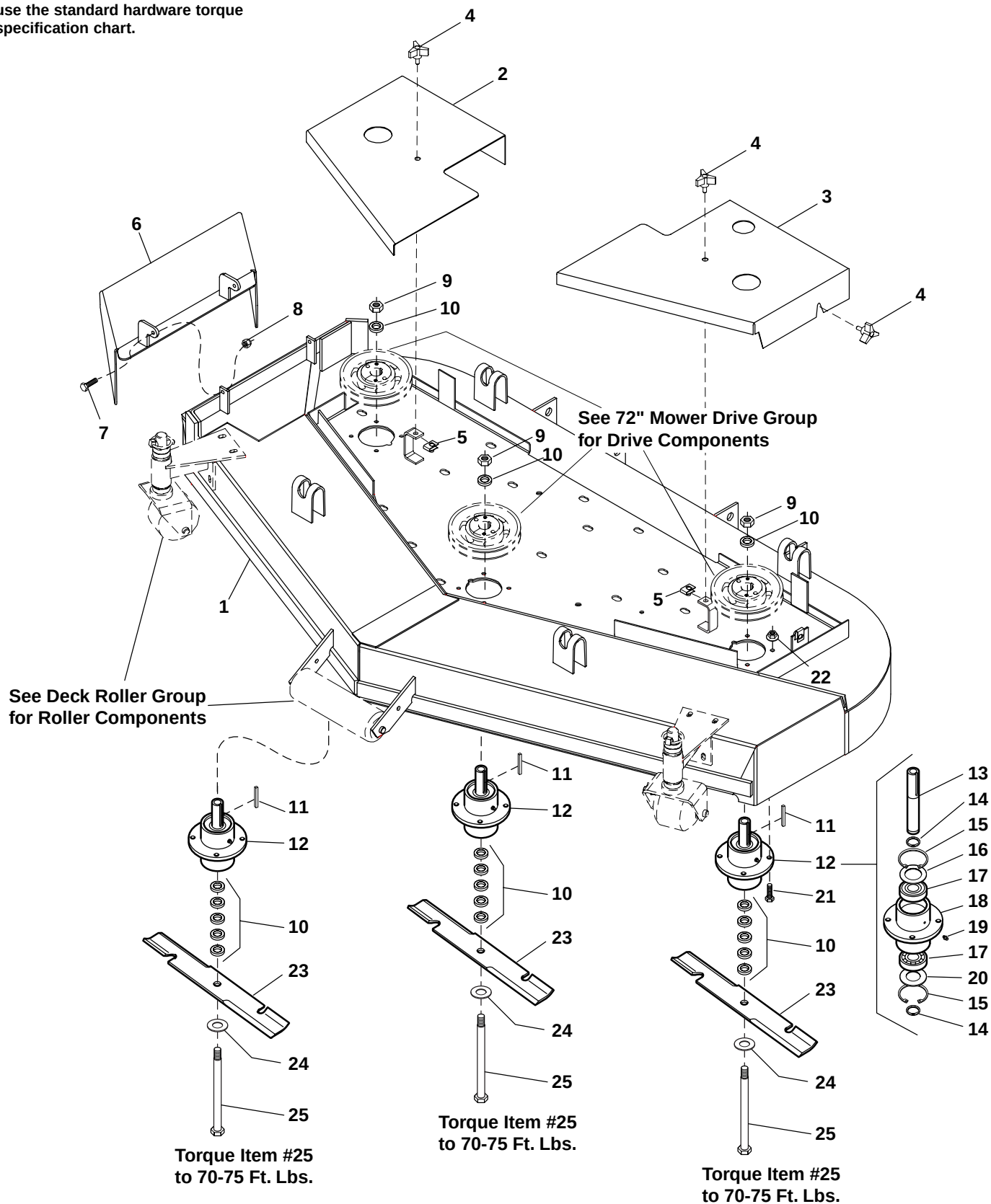
**Footnotes:**

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The above parts group applies to the following Model Nos.:  
4000/61 IS4000Z 61" Mower Deck

## 72" Mower Housing, Cover, Spindle & Blade Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Model Nos.:  
 4000/72 IS4000Z 72" Mower Deck (S/N 101-435)

### **72" Mower Housing, Cover, Spindle & Blade Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                     |
|---------|----------|------|-------------------------------------------------|
| 1       | 46338    | 1    | 72" MOWER HOUSING                               |
| 2       | 46063    | 1    | SPINDLE COVER-LH                                |
| 3       | 46064    | 1    | SPINDLE COVER-RH                                |
| 4       | 22319    | 6    | PLASTIC KNOB                                    |
| 5       | 22308    | 6    | BODY CLIP, 5/16-18                              |
| 6       | 46097    | 1    | DISCHARGE CHUTE                                 |
| 7       | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1                   |
| 8       | 25057    | 2    | NUT, Hex, Nylon Lock, 5/16-18                   |
| 9       | 25040    | 3    | NUT, Hex, 5/8-11                                |
| 10      | 41477    | 18   | SPACER, Blade                                   |
| 11      | 50407-9  | 3    | KEY, 1/4 x 2-1/2                                |
| 12      | 30301    | 3    | SPINDLE ASSEMBLY, Complete (includes Ref 13-20) |
| 13      | 41480    | 3    | SPINDLE SHAFT                                   |
| 14      | 20864    | 6    | SNAP RING, External                             |
| 15      | 20866    | 6    | SNAP RING, Internal                             |
| 16      | 41653    | 3    | SPINDLE WASHER, Top                             |
| 17      | 20828    | 6    | BEARING                                         |
| 18      | 30293    | 3    | SPINDLE HOUSING                                 |
| 19      | 20095    | 3    | GREASE FITTING                                  |
| 20      | 41672    | 3    | SPINDLE WASHER, Bottom                          |
| 21      | 25011-10 | 12   | CAPSCREW, Hex Hd, 5/16-18 x 1-1/4               |
| 22      | 25139    | 12   | NUT, Hex, Serrated Flange, 5/16-18              |
| 23      | 22476    | 3    | MOWER BLADE                                     |
| 24      | 25159    | 3    | WASHER, USS, 5/8                                |
| 25      | 25019-76 | 3    | CAPSCREW, Hex Hd, 5/8-11 x 9-1/2                |

#### **IMPORTANT NOTE:**

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the 72" Mower Housing, Cover, Spindle & Blade Group listed on page 86 & 87. Refer to the serial number list on the inside cover to determine if your machine was affected.

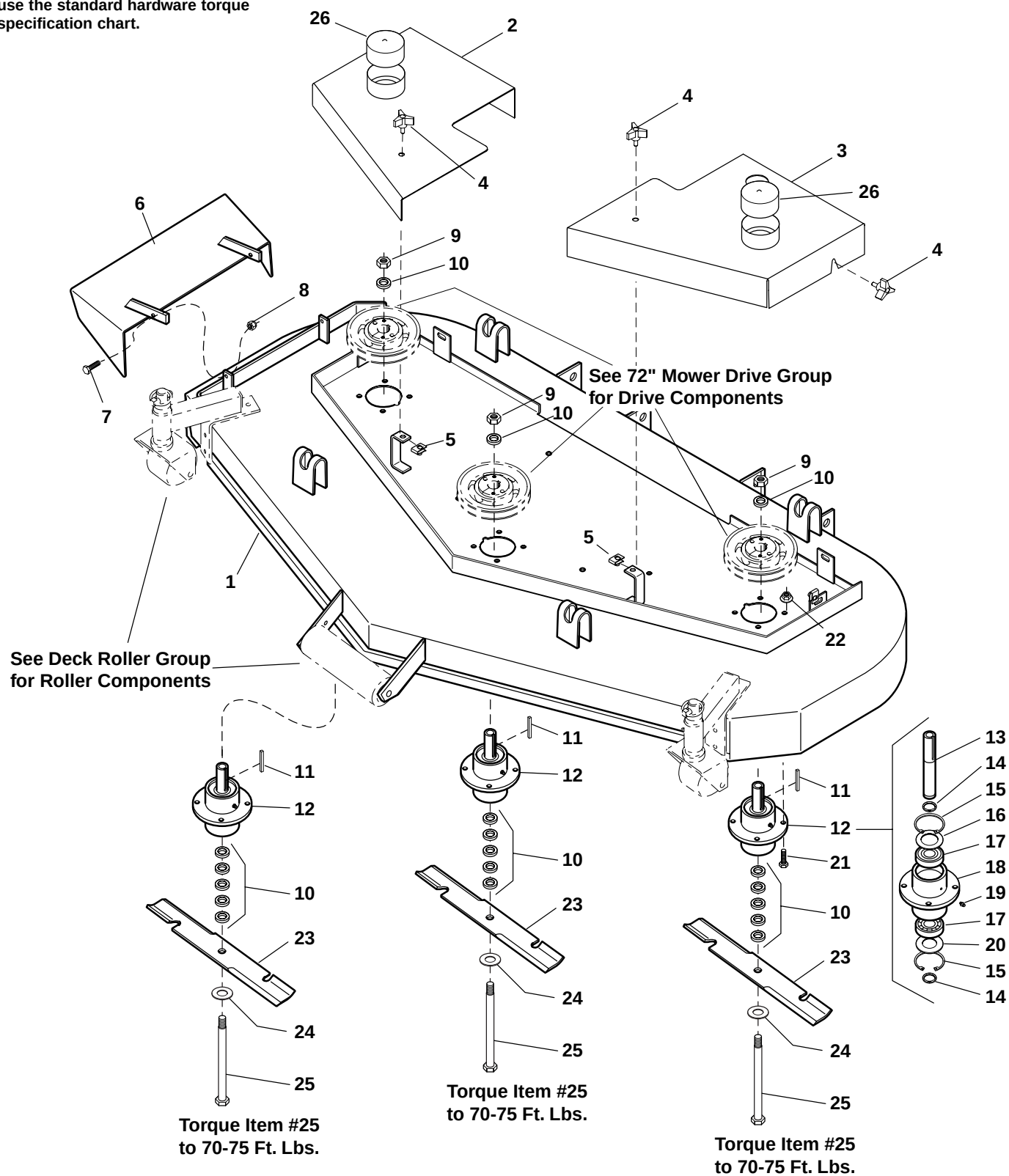
#### **Footnotes:**

The above parts group applies to the following Model Nos.:

4000/72      IS4000Z 72" Mower Deck (S/N 101-435)

## 72" Mower Housing, Cover, Spindle & Blade Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Model Nos.:  
 4000/72 IS4000Z 72" Mower Deck (S/N 436 & up)



**72" Mower Housing, Cover, Spindle & Blade Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                                     |
|---------|----------|------|-------------------------------------------------|
| 1       | 46756    | 1    | 72" MOWER HOUSING                               |
| 2       | 47222    | 1    | SPINDLE COVER-RH                                |
| 3       | 47221    | 1    | SPINDLE COVER-LH                                |
| 4       | 22319    | 6    | PLASTIC KNOB                                    |
| 5       | 22308    | 6    | BODY CLIP, 5/16-18                              |
| 6       | 47233    | 1    | DISCHARGE CHUTE                                 |
| 7       | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1                   |
| 8       | 25057    | 2    | NUT, Hex, Nylon Lock, 5/16-18                   |
| 9       | 25040    | 3    | NUT, Hex, 5/8-11                                |
| 10      | 41477    | 18   | SPACER, Blade                                   |
| 11      | 50407-9  | 3    | KEY, 1/4 x 2-1/2                                |
| 12      | 30301    | 3    | SPINDLE ASSEMBLY, Complete (includes Ref 13-20) |
| 13      | 41480    | 3    | SPINDLE SHAFT                                   |
| 14      | 20864    | 6    | SNAP RING, External                             |
| 15      | 20866    | 6    | SNAP RING, Internal                             |
| 16      | 41653    | 3    | SPINDLE WASHER, Top                             |
| 17      | 20828    | 6    | BEARING                                         |
| 18      | 30293    | 3    | SPINDLE HOUSING                                 |
| 19      | 20095    | 3    | GREASE FITTING                                  |
| 20      | 41672    | 3    | SPINDLE WASHER, Bottom                          |
| 21      | 25011-10 | 12   | CAPSCREW, Hex Hd, 5/16-18 x 1-1/4               |
| 22      | 25139    | 12   | NUT, Hex, Serrated Flange, 5/16-18              |
| 23      | 22476    | 3    | MOWER BLADE                                     |
| 24      | 25159    | 3    | WASHER, USS, 5/8                                |
| 25      | 25019-76 | 3    | CAPSCREW, Hex Hd, 5/8-11 x 9-1/2                |
| 26      | 21674    | 2    | CAP                                             |

**Footnotes:**

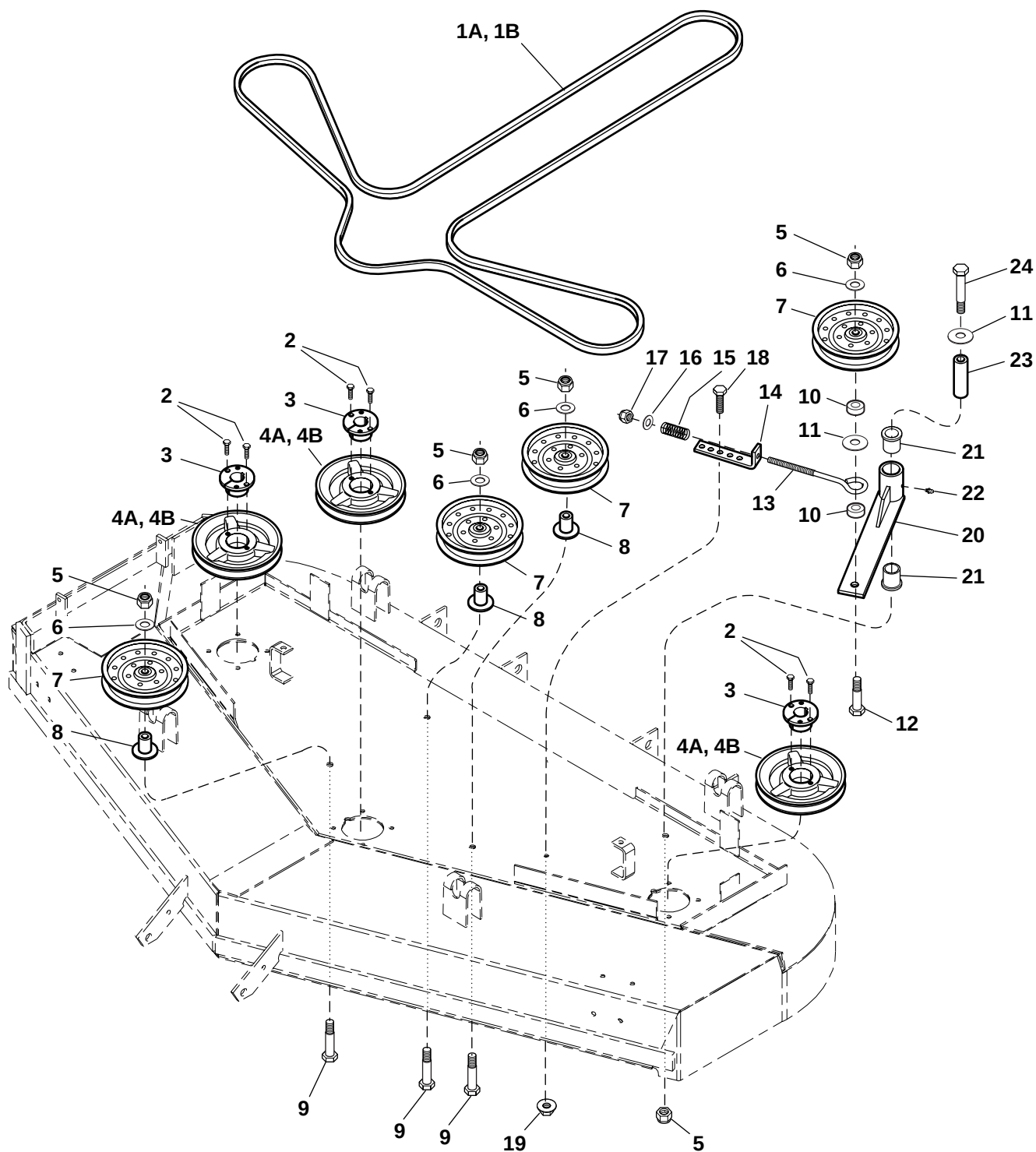
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The above parts group applies to the following Model Nos.:

4000/72      IS4000Z 72" Mower Deck (S/N 436 & up)

## 72" Mower Drive Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
4000/72 IS4000Z 72" Mower Deck

## 72" Mower Drive Group

| REF NO. | PART NO. | QTY. | DESCRIPTION                       |
|---------|----------|------|-----------------------------------|
| 1A      | 22439    | 1    | BELT, 72" Deck (S/N 101-375)      |
| 1B      | 22854    | 1    | BELT, 72" Deck (S/N 376 & up)     |
| 2       | 25010-8  | 6    | CAPSCREW, Hex Hd, 1/4-20 x 1      |
| 3       | 20819    | 3    | HUB, Taper Lock                   |
| 4A      | 20815    | 3    | PULLEY, Spindle (S/N 101-435)     |
| 4B      | 22794    | 3    | PULLEY, Spindle (S/N 436 & up)    |
| 5       | 25056    | 5    | NUT, Hex, Nylon Lock, 1/2-13      |
| 6       | 25158    | 4    | WASHER, 1/2                       |
| 7       | 21976    | 4    | PULLEY, Idler                     |
| 8       | 45024    | 3    | IDLER PULLEY MOUNT                |
| 9       | 25017-28 | 3    | CAPSCREW, Hex Hd, 1/2-13 x 3-1/2  |
| 10      | 45023    | 2    | IDLER SPACER                      |
| 11      | 25150    | 2    | WASHER, USS, 1/2                  |
| 12      | 25017-24 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 3      |
| 13      | 21811    | 1    | EYEBOLT                           |
| 14      | 46556    | 1    | SPRING ANCHOR                     |
| 15      | 22788    | 1    | SPRING, Compression               |
| 16      | 25156    | 1    | WASHER, 3/8                       |
| 17      | 25096    | 1    | NUT, Hex, Nylon Lock, 3/8-16      |
| 18      | 25013-8  | 1    | CAPSCREW, Hex Hd, 3/8-16 x 1      |
| 19      | 25128    | 1    | NUT, Hex, Serrated Flange, 3/8-16 |
| 20      | 45019    | 1    | IDLER ARM                         |
| 21      | 21541    | 2    | BUSHING, Flange                   |
| 22      | 20095    | 1    | GREASE FITTING                    |
| 23      | 45022    | 1    | IDLER ARM PIVOT SHAFT             |
| 24      | 25017-32 | 1    | CAPSCREW, Hex Hd, 1/2-13 x 4      |

### **IMPORTANT NOTE:**

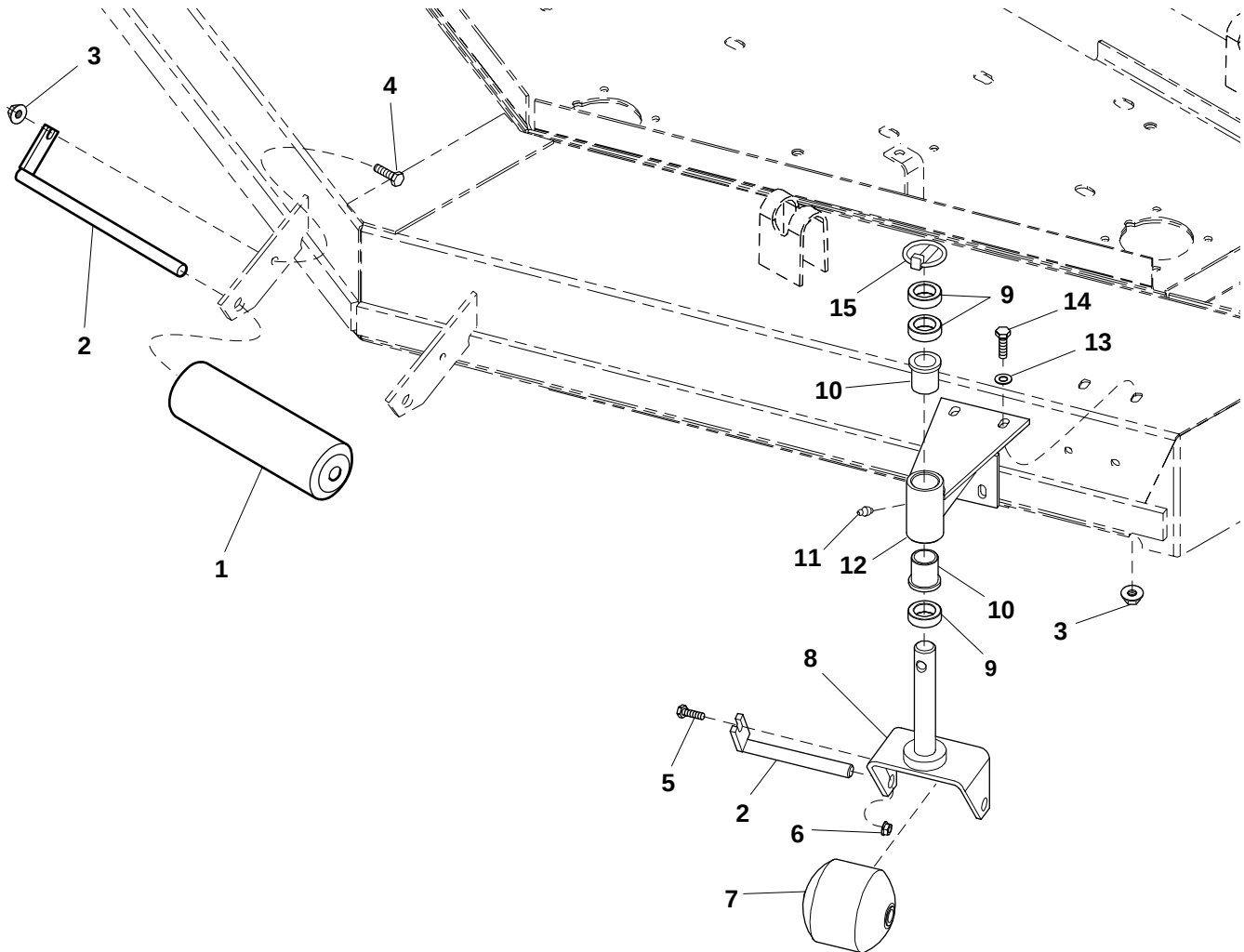
**If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the Belt (22854) and Spindle Pulley (22794) for replacement parts. Refer to the serial number list on the inside cover to determine if your machine was affected.**

### Footnotes:

The above parts group applies to the following Model Nos.:  
4000/72      IS4000Z 72" Mower Deck

## 72" Deck Roller Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
4000/72      IS4000Z 72" Mower Deck (S/N 101-435)

### **72" Deck Roller Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                           |
|---------|----------|------|---------------------------------------|
| 1       | 20785    | 1    | ROLLER, Nose                          |
| 2       | 41655    | 1    | ROLLER, Pin                           |
| 3       | 25128    | 9    | NUT, Hex, Serrated Flange, 3/8-16 x 1 |
| 4       | 25013-8  | 1    | CAPSCREW, Hex Head, 3/8-16 x 1        |
| 5       | 25011-6  | 2    | CAPSCREW, Hex Head, 5/16-18 x 3/4     |
| 6       | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18    |
| 7       | 22060    | 2    | ROLLER, Caster                        |
| 8       | 45188    | 2    | CASTER YOKE                           |
| 9       | 41476    | 6    | SPACER, Caster                        |
| 10      | 21541    | 4    | BUSHING, Flange                       |
| 11      | 20095    | 2    | GREASE FITTING                        |
| 12      | 46342    | 2    | CASTER MOUNT ARM                      |
| 13      | 25156    | 8    | WASHER, 3/8                           |
| 14      | 25013-6  | 8    | CAPSCREW, Hex Head, 3/8-16 x 3/4      |
| 15      | 20655    | 2    | LYNCH PIN                             |

**IMPORTANT NOTE:**

If your IS4000Z/D31 with the 72" mower deck was part of the Ferris Industries update project, you must use the 72" Deck Roller Group listed on page 92 & 93. Refer to the serial number list on the inside cover to determine if your machine was affected.

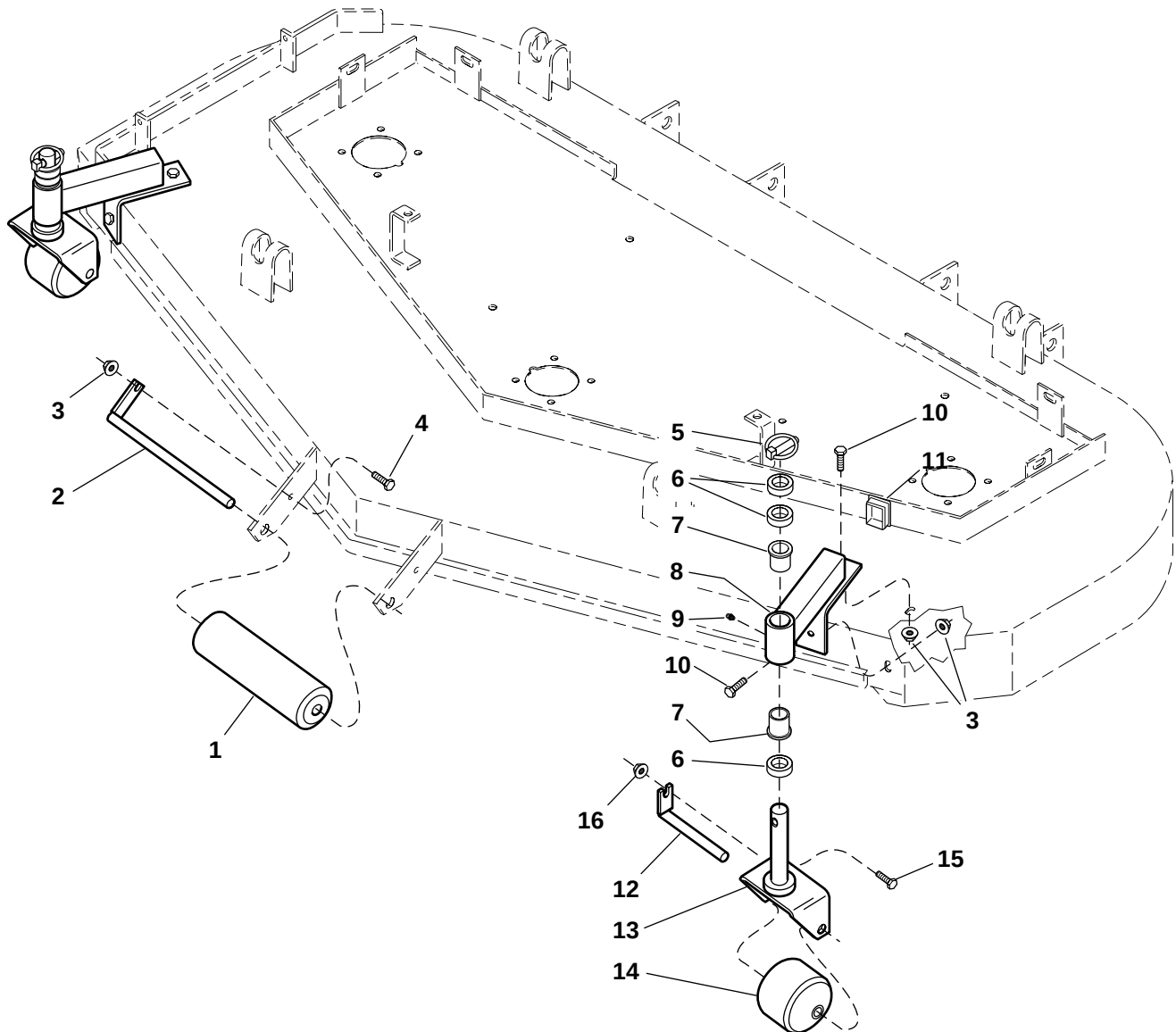
**Footnotes:**

The above parts group applies to the following Model Nos.:

4000/72      IS4000Z 72" Mower Deck (S/N 101-435)

## 72" Deck Roller Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Model Nos.:  
4000/72      IS4000Z 72" Mower Deck (S/N 436 & up)

### **72" Deck Roller Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                        |
|---------|----------|------|------------------------------------|
| 1       | 20785    | 1    | ROLLER, Nose                       |
| 2       | 41655    | 1    | ROLLER PIN                         |
| 3       | 25128    | 5    | NUT, Hex, Serrated Flange, 3/8-16  |
| 4       | 25013-8  | 1    | CAPSCREW, Hex Hd, 3/8-16 x 1       |
| 5       | 20655    | 2    | LYNCH PIN                          |
| 6       | 41476    | 6    | SPACER, Caster                     |
| 7       | 21541    | 4    | BUSHING, Flange                    |
| 8       | 46965    | 2    | CASTER MOUNT ARM                   |
| 9       | 20095    | 2    | GREASE FITTING                     |
| 10      | 25013-6  | 4    | CAPSCREW, Hex Hd, 3/8-16 x 3/4     |
| 11      | 22098    | 2    | CAP, Plastic                       |
| 12      | 45034    | 2    | CASTER ROLLER PIN                  |
| 13      | 45188    | 2    | CASTER YOKE                        |
| 14      | 22060    | 2    | ROLLER, Caster                     |
| 15      | 25011-6  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 3/4    |
| 16      | 25127    | 2    | NUT, Hex, Serrated Flange, 5/16-18 |

#### **Footnotes:**

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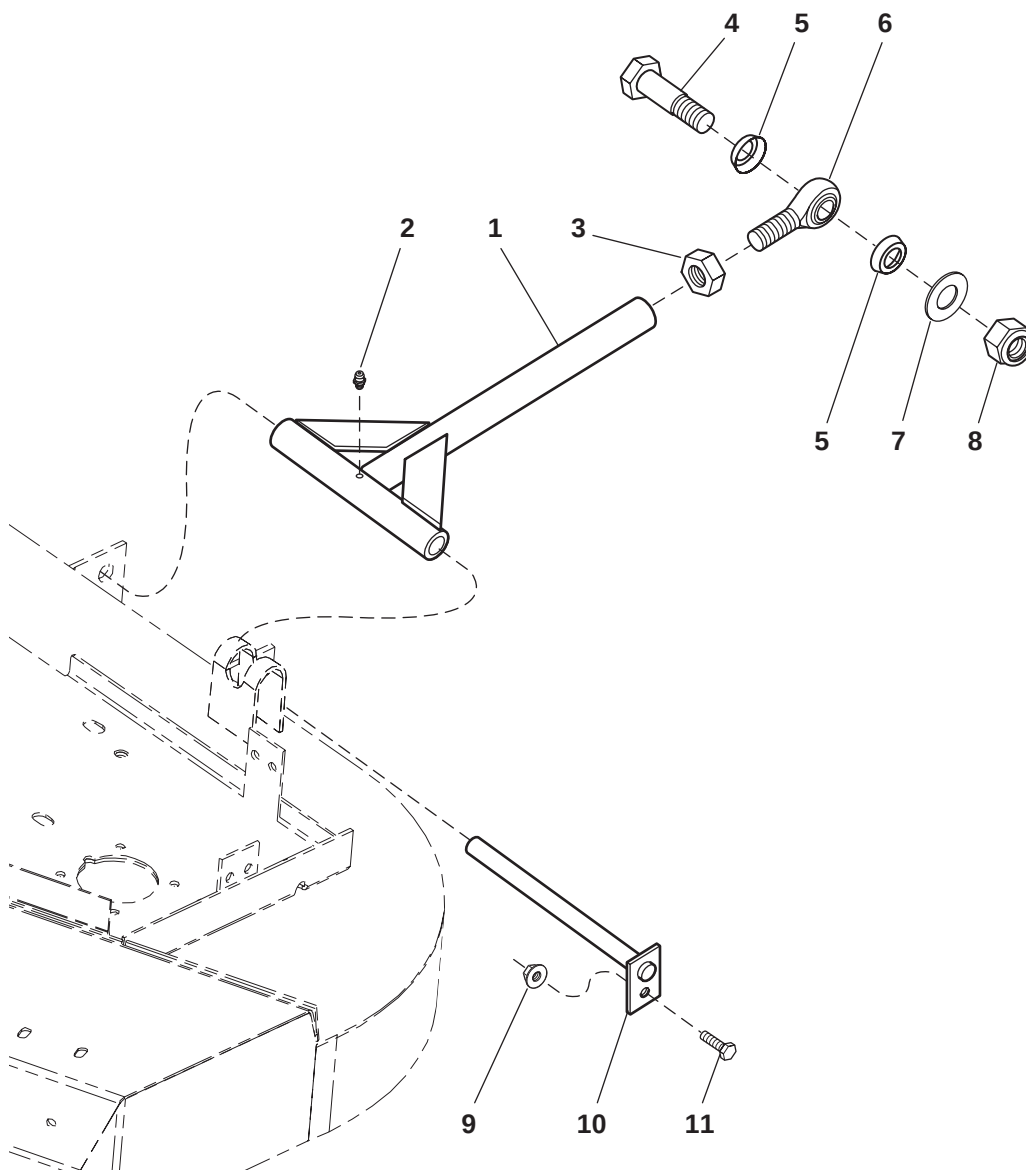
**The above parts group applies to the following Model Nos.:**

4000/72      IS4000Z 72" Mower Deck (S/N 436 & up)

## Mower Rear Mount Group

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NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



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The above parts group applies to the following Model Nos.:

|         |                        |
|---------|------------------------|
| 4000/61 | IS4000Z 61" Mower Deck |
| 4000/72 | IS4000Z 72" Mower Deck |



**Mower Rear Mount Group**

| REF NO. | PART NO. | QTY. | DESCRIPTION                        |
|---------|----------|------|------------------------------------|
| 1       | 45009    | 2    | DECK PUSHER BAR                    |
| 2       | 20095    | 2    | GREASE FITTING                     |
| 3       | 25093    | 2    | NUT, Hex, Jam, 3/4-16              |
| 4       | 25265-24 | 2    | CAPSCREW, Hex Hd, 3/4-16 x 3       |
| 5       | 22111    | 4    | SEAL, Rod End                      |
| 6       | 22039    | 2    | BALL JOINT, 3/4-16                 |
| 7       | 25160    | 2    | WASHER, 3/4                        |
| 8       | 25284    | 2    | NUT, Hex, Nylon Lock, 3/4-16       |
| 9       | 25139    | 2    | NUT, Hex, Serrated Flange, 5/16-18 |
| 10      | 45037    | 2    | PUSHER BAR MOUNT PIN               |
| 11      | 25011-8  | 2    | CAPSCREW, Hex Hd, 5/16-18 x 1      |

**Footnotes:**

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The above parts group applies to the following Model Nos.:

|         |                        |
|---------|------------------------|
| 4000/61 | IS4000Z 61" Mower Deck |
| 4000/72 | IS4000Z 72" Mower Deck |