



## Mid–Size Mower

### ProLine Pistol Grip Gear 15 HP with 44in Side Discharge Mower

Model No. 30431—2300000001 and Up

## Parts Catalog

### Ordering Replacement Parts

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

### Understanding Reference Numbers

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

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

### Service Assembly Reference Numbers

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

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

Reference numbers of this type appear in illustrations and in part lists.

### Reference Numbers Indicating Quantity

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

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

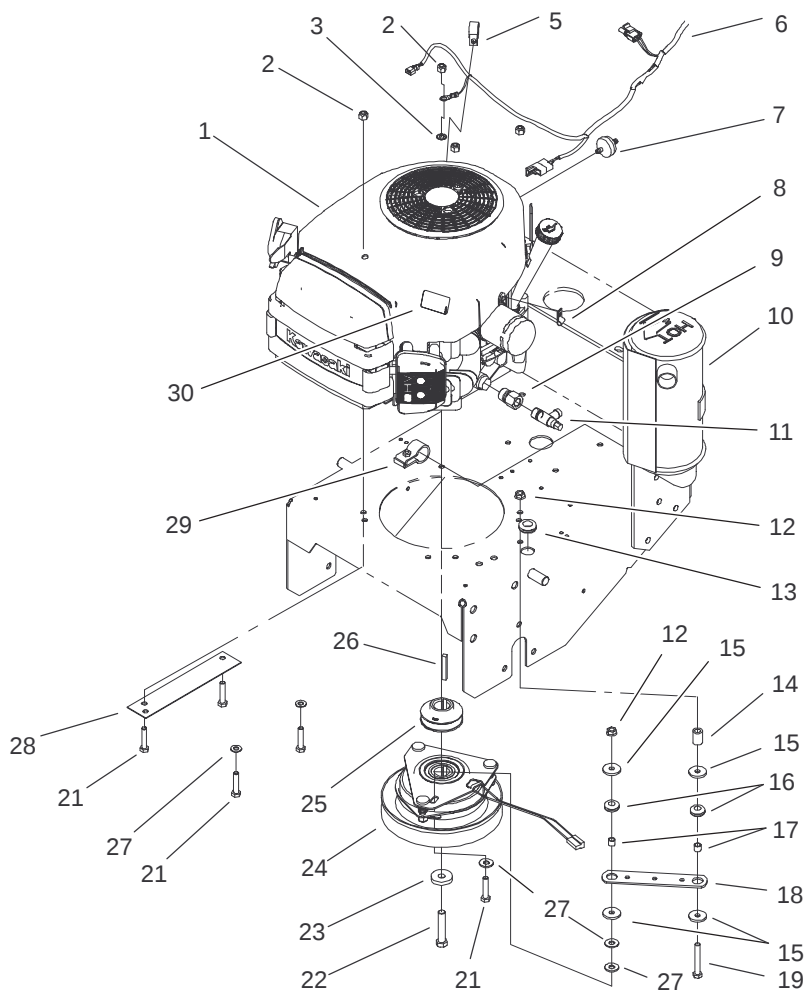
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## Part Description Abbreviations

Part descriptions in this catalog may include the following abbreviations.

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



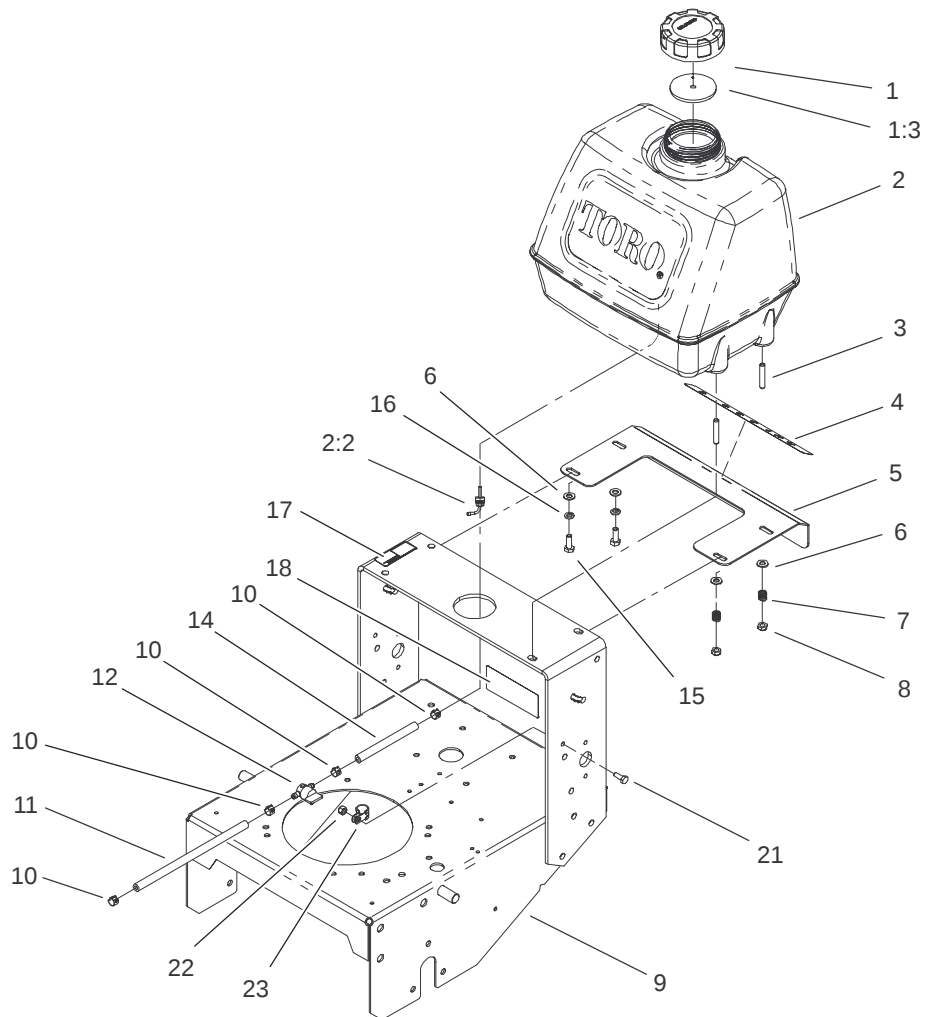
Sheet No.:3

## Engine Installation Assembly

| Ref. No. | Part No.    | Qty. | Description                  | Ref. No. | Part No.   | Qty. | Description                 |
|----------|-------------|------|------------------------------|----------|------------|------|-----------------------------|
| ☆1       |             | 1    | Engine-Kawasaki, Fh451v-As11 | 28       | 94-5847-01 | 1    | Cover-Pulley                |
| 2        | 3296-29     | 4    | Nut-Lock, NI                 | 29       | 100-6468   | 1    | Clamp-Muffler               |
| 3        | 3255-8      | 1    | Washer-Lock                  | 30       | 106-0699   | 1    | Decal-Warning, Hot Surfaces |
| 5        | 2412-87     | 1    | Clamp-Cable                  | *99      | 103-1964   | 1    | Hose-Drain, Oil             |
| 6        | 104-9825    | 1    | Harness-Wire                 |          |            |      |                             |
| 7        | 56-6360     | 1    | Filter-Fuel                  |          |            |      |                             |
| 8        | 2412-72     | 1    | Clip-Closed, Insulated       |          |            |      |                             |
| 9        | 103-1966    | 1    | Adapter                      |          |            |      |                             |
| 10       | 100-6467    | 1    | Muffler                      |          |            |      |                             |
| 11       | 103-1965    | 1    | Valve-Drain, Oil             |          |            |      |                             |
| 12       | 32128-20    | 2    | Nut-HF                       |          |            |      |                             |
| 13       | 237-124     | 1    | Grommet                      |          |            |      |                             |
| 14       | 104-6373    | 1    | Tube-Retainer                |          |            |      |                             |
| 15       | 1-613235    | 4    | Washer                       |          |            |      |                             |
| 16       | 1-633630    | 2    | Grommet-Brake                |          |            |      |                             |
| 17       | 1-633545    | 2    | Spacer-Grommet               |          |            |      |                             |
| 18       | 1-633543-03 | 1    | Strap-Clutch, Brake          |          |            |      |                             |
| 19       | 322-11      | 1    | Screw-HH                     |          |            |      |                             |
| 21       | 322-7       | 5    | Screw-HH                     |          |            |      |                             |
| 22       | 3212-9      | 1    | Screw-HH                     |          |            |      |                             |
| 23       | 112843      | 1    | Washer                       |          |            |      |                             |
| 24       | 105-2635    | 1    | Clutch/Brake                 |          |            |      |                             |
| 25       | 105-0827    | 1    | Pulley-Drive                 |          |            |      |                             |
| 26       | 608006      | 1    | Key-Square                   |          |            |      |                             |
| 27       | 3256-23     | 5    | Washer-Flat                  |          |            |      |                             |

☆ Not serviced separately

\* Not illustrated

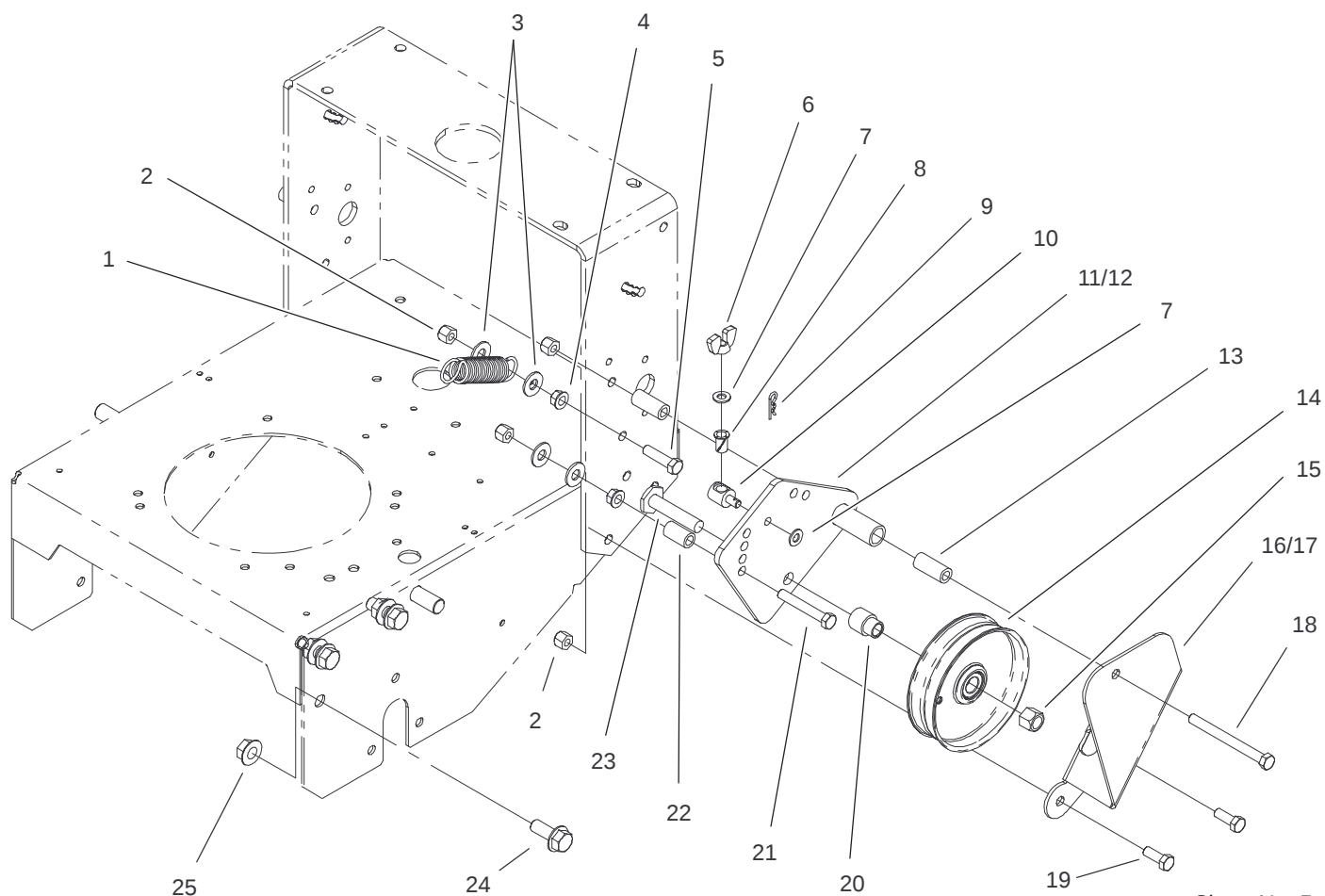


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# Fuel Tank Assembly

| Ref. No. | Part No.    | Qty. | Description            |
|----------|-------------|------|------------------------|
| 1        | 88-3980     | 1    | Gas Cap ASM            |
| 1:3      | 88-4010     | 1    | Gasket-Cap, Gas        |
| 2        | 106-0730    | 1    | Fuel Tank ASM          |
| 2:2      | 103-2605    | 1    | Fitting-Fuel, Bulkhead |
| 3        | 104-8121    | 2    | Stud-Threaded          |
| 4        | 106-5496    | 1    | Decal-Ground Speed     |
| 5        | 104-8102-01 | 1    | Plate-Gate, Shift      |
| 6        | 3256-23     | 4    | Washer-Flat            |
| 7        | 1-633349    | 2    | Spring-Tank, Fuel      |
| 8        | 3296-47     | 2    | Nut-Lock, NI           |
| 9        | 106-0546-01 | 1    | Gear Frame ASM         |
| 10       | 2412-98     | 4    | Clamp                  |
| 11       | 47-2982     | 1    | Hose-Fuel              |
| 12       | 1-603770    | 1    | Valve-Fuel             |
| 14       | 47-2980     | 1    | Hose-Fuel              |
| 15       | 322-4       | 2    | Screw-HH               |
| 16       | 3253-4      | 2    | Washer-Lock            |
| 17       | 95-2814     | 1    | Decal-Shut Off, Fuel   |
| 18       | 98-0776     | 1    | Decal-Caution          |
| 21       | 321-4       | 1    | Screw-HH               |
| 22       | 3296-42     | 1    | Nut-Lock, NI           |
| 23       | 2412-134    | 1    | R-Clamp                |

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

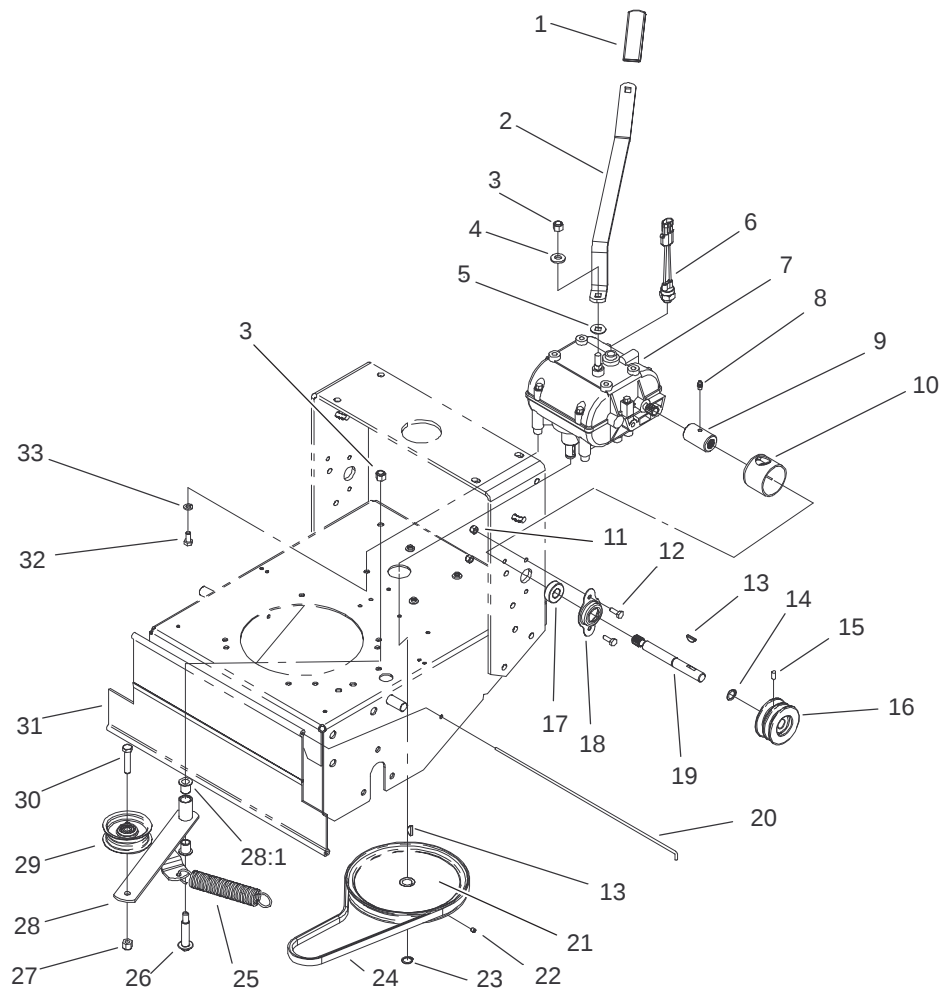


Sheet No.:5

## Lower Control Assembly

| Ref. No. | Part No.    | Qty. | Description          |
|----------|-------------|------|----------------------|
| 1        | 1-603402    | 2    | Spring-Extension     |
| 2        | 3296-39     | 10   | Nut-Lock, NI         |
| 3        | 3256-4      | 8    | Washer-Flat          |
| 4        | 32128-40    | 4    | Nut-Flange           |
| 5        | 323-8       | 2    | Screw-HH             |
| 6        | 32103-25    | 2    | Nut-Wing             |
| 7        | 3256-23     | 4    | Washer-Flat          |
| 8        | 52-2890     | 2    | Bushing-Nylon        |
| 9        | 3290-307    | 2    | Pin-Hair             |
| 10       | 68-9690     | 2    | Fitting-Rod          |
| 11       | 106-0611-01 | 1    | LH Idler Bracket ASM |
| 12       | 106-0612-01 | 1    | RH Idler Bracket ASM |
| 13       | 74-0040     | 4    | Spacer-Pivot, Idler  |
| 14       | 95-2800     | 2    | Pulley-Idler         |
| 15       | 3296-23     | 2    | Nut-Lock, NI         |
| 16       | 67-6380-01  | 1    | Bracket-Support, LH  |
| 17       | 67-6370-01  | 1    | Bracket-Support, RH  |
| 18       | 323-16      | 2    | Screw-HH             |
| 19       | 323-6       | 4    | Screw-HH             |
| 20       | 95-2801     | 2    | Spacer-Pulley        |
| 21       | 323-12      | 2    | Screw-HH             |
| 22       | 106-0564    | 2    | Spacer               |
| 23       | 51-4450     | 2    | Screw-Leveler        |
| 24       | 3234-32     | 6    | Screw-HHF            |
| 25       | 32128-23    | 6    | Nut-HF               |

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

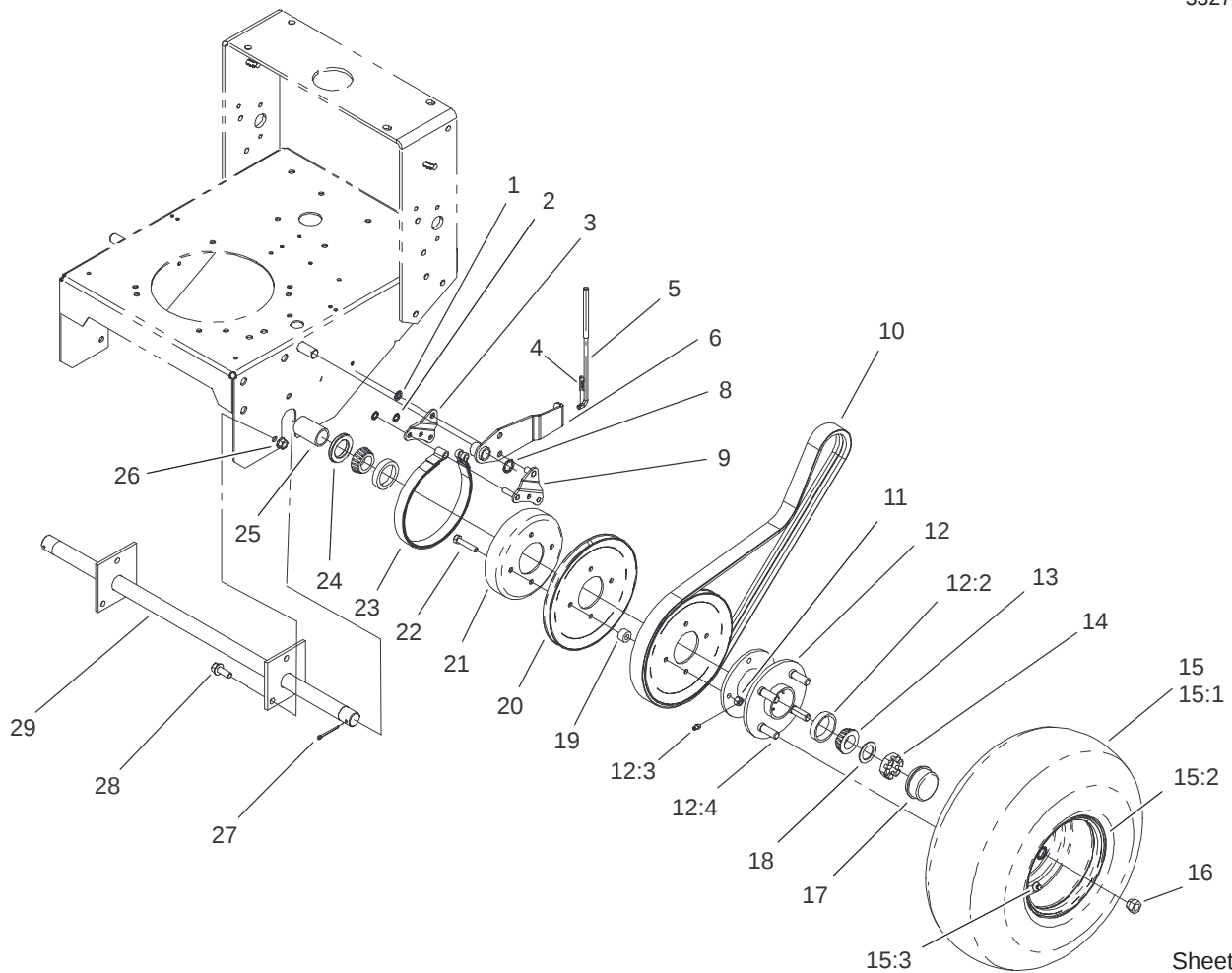


Sheet No.:6

Transmission Drive Assembly

| Ref. No. | Part No.   | Qty. | Description         |
|----------|------------|------|---------------------|
| 1        | 47-1970    | 1    | Grip                |
| 2        | 98-3274-03 | 1    | Lever-Shift         |
| 3        | 3296-6     | 2    | Nut-Lock, NI        |
| 4        | 98-5975    | 1    | Washer-Belleville   |
| 5        | 1-323379   | 1    | Washer              |
| 6        | 72-4320    | 1    | Switch-Ball, N.o.   |
| 7        | 1-323500   | 1    | Transmission        |
| 8        | 302-5      | 2    | Fitting-Grease      |
| 9        | 1-323680   | 2    | Coupler             |
| 10       | 51-4220    | 2    | Guard-Coupler       |
| 11       | 3296-42    | 4    | Nut-Lock, NI        |
| 12       | 321-4      | 4    | Screw-HH            |
| 13       | 3257-5     | 3    | Key-Woodruff        |
| 14       | 32151-62   | 2    | Ring-Retaining      |
| 15       | 3245-9     | 2    | Screw-Set           |
| 16       | 105-2698   | 2    | Pulley-Transmission |
| 17       | 1-323252   | 2    | Bearing-Shaft       |
| 18       | 1-323254   | 2    | Flange-Output       |
| 19       | 104-1102   | 2    | Shaft-Output        |
| 20       | 95-1529    | 1    | Rod-Shield          |
| 21       | 105-5646   | 1    | Pulley-Driven       |
| 22       | 3245-1     | 1    | Screw-Set, HSH      |
| 23       | 32120-64   | 1    | Ring-Snap, External |
| 24       | 105-5668   | 1    | V-Belt              |
| 25       | 68-2190    | 1    | Spring              |
| 26       | 27-6230    | 1    | Bolt-Wheel          |

| Ref. No. | Part No. | Qty. | Description     |
|----------|----------|------|-----------------|
| 27       | 3296-39  | 1    | Nut-Lock, NI    |
| 28       | 16-7509  | 1    | Lever-Idler     |
| 28:1     | 256-155  | 2    | Bushing-Flange  |
| 29       | 62-4540  | 1    | Pulley          |
| 30       | 323-9    | 1    | Screw-HH        |
| 31       | 95-1526  | 1    | Shield-Trailing |
| 32       | 322-2    | 4    | Screw-HH        |
| 33       | 3253-4   | 4    | Washer-Lock     |

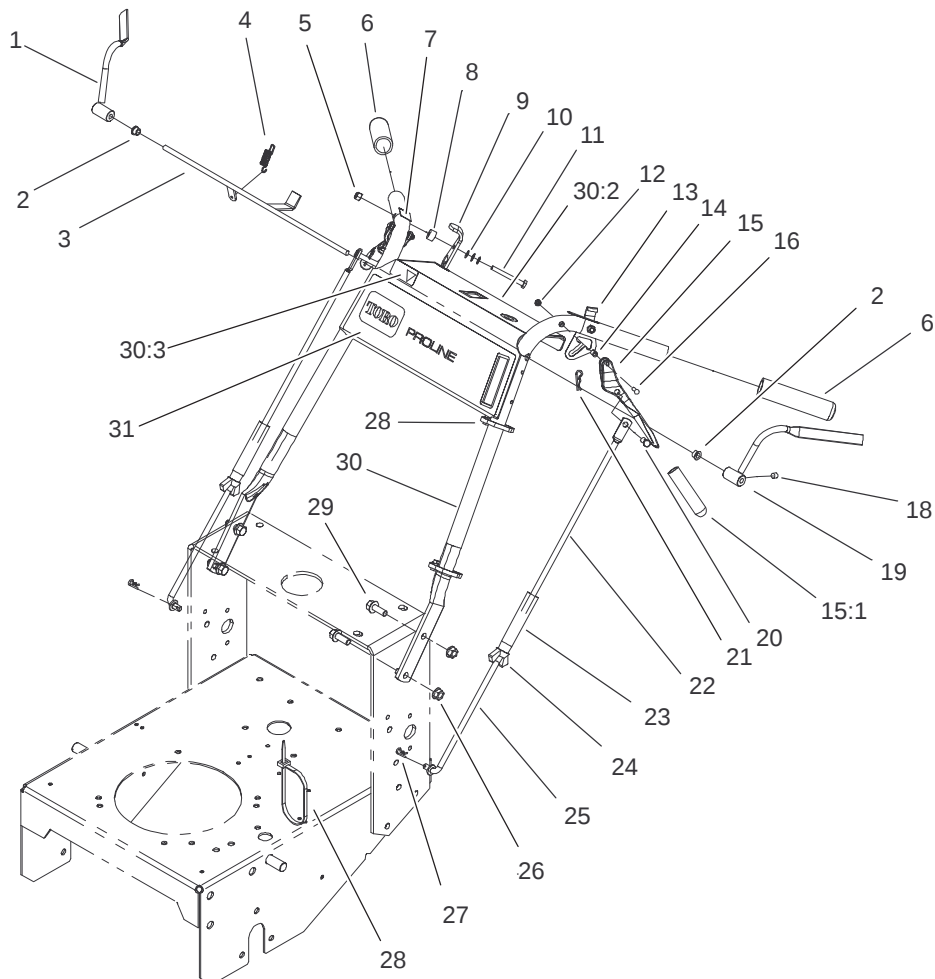


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## Wheel Drive and Brake Assembly

| Ref. No. | Part No.    | Qty. | Description              |
|----------|-------------|------|--------------------------|
| 1        | 32151-56    | 2    | Ring-Retaining, External |
| 2        | 32151-72    | 4    | Ring-Retaining           |
| 3        | 105-4651-01 | 2    | Plate-Link, Brake        |
| 4        | 3290-307    | 2    | Pin-Hair                 |
| 5        | 51-4580     | 2    | Rod-Brake                |
| 6        | 106-5537-01 | 2    | Brake Arm ASM            |
| 8        | 32151-40    | 2    | Ring-Retaining           |
| 9        | 105-4652-01 | 2    | Brake Link ASM           |
| 10       | 51-4290     | 2    | V-Belt                   |
| 11       | 3296-29     | 8    | Nut-Lock, NI             |
| 12       | 1-413333    | 2    | Hub/Wheel ASM            |
| 12:2     | 254-72      | 2    | Bearing-Cup, Tapered     |
| 12:3     | 302-19      | 1    | Fitting-Grease           |
| 12:4     | 1-633926    | 4    | Stud-Wheel               |
| 13       | 254-94      | 4    | Bearing-Cone, Taper      |
| 14       | 1-809082    | 2    | Nut-SHH                  |
| 15       | 104-6321    | 2    | Wheel And Tire ASM       |
| 15:1     | 104-6322    | 1    | Tire                     |
| 15:2     | 104-6323    | 1    | Wheel                    |
| 15:3     | 232-27      | 1    | Stem-Valve               |
| 16       | 242-50      | 8    | Nut-Lug                  |
| 17       | 241-119     | 2    | Cap-Dust                 |
| 18       | 1-523157    | 2    | Washer-Spacer            |
| 19       | 51-4170     | 8    | Spacer-Pulley            |
| 20       | 51-4160-03  | 4    | Pulley-Wheel             |

| Ref. No. | Part No.    | Qty. | Description  |
|----------|-------------|------|--------------|
| 21       | 1-323261    | 2    | Drum-Brake   |
| 22       | 322-8       | 8    | Screw-HH     |
| 23       | 1-323262    | 2    | Band-Brake   |
| 24       | 1-543511    | 2    | Seal-Grease  |
| 25       | 104-1197    | 2    | Spacer-Wheel |
| 26       | 32128-21    | 6    | Nut-HF       |
| 27       | 1-806800    | 2    | Pin-Cotter   |
| 28       | 3234-11     | 6    | Screw-HHF    |
| 29       | 104-1196-01 | 1    | Axle ASM     |

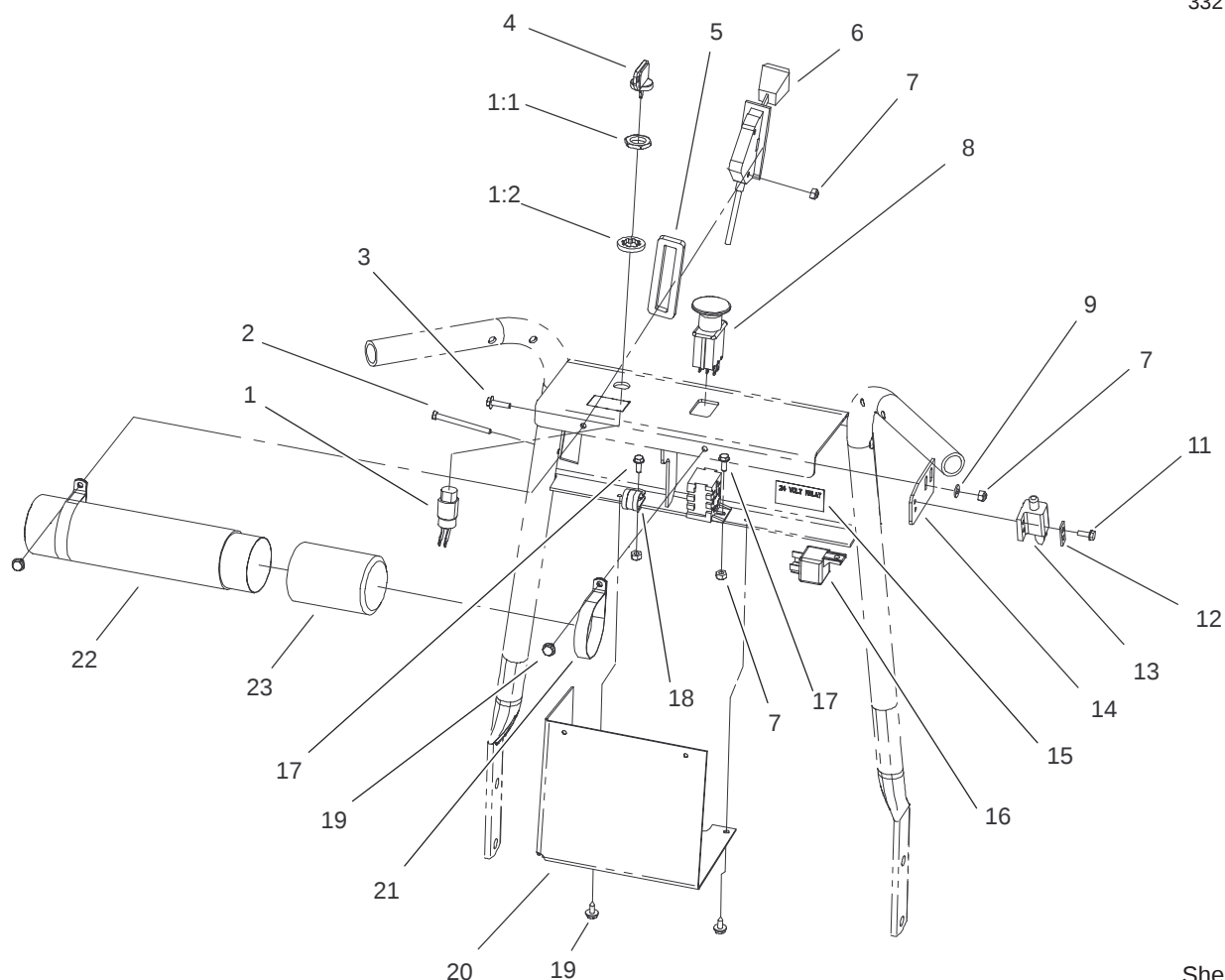


Sheet No.:8

## Upper Handle Assembly

| Ref. No. | Part No. | Qty. | Description          |
|----------|----------|------|----------------------|
| 1        | 106-5486 | 1    | RH Control Lever ASM |
| 2        | 1-303365 | 2    | Bushing-Nylon        |
| 3        | 104-9803 | 1    | Rod ASM              |
| 4        | 1-303363 | 1    | Spring-Extension     |
| 5        | 3296-42  | 2    | Nut-Lock, NI         |
| 6        | 104-9838 | 2    | Grip-Foam            |
| 7        | 105-4111 | 2    | Decal-Lock, Neutral  |
| 8        | 1-323549 | 2    | Spacer               |
| 9        | 106-5521 | 1    | Latch-Thumb, RH      |
| 10       | 1-303435 | 6    | Washer-Spring        |
| 11       | 321-18   | 2    | Screw-HH             |
| 12       | 1-803001 | 2    | Nut                  |
| 13       | 106-5520 | 1    | Latch-Thumb, LH      |
| 14       | 1-806340 | 2    | Pin-Roll             |
| 15       | 1-302006 | 2    | Drive Lever ASM      |
| 15:1     | 1-303021 | 1    | Grip-Lever, Drive    |
| 16       | 1-808250 | 2    | Pin-Clevis           |
| 18       | 1-803322 | 2    | Screw-Set            |
| 19       | 106-5485 | 1    | LH Control Lever ASM |
| 20       | 1-808286 | 2    | Pin-Clevis           |
| 21       | 1-806003 | 2    | Pin-Hair             |
| 22       | 106-0613 | 2    | Linkage-Drive Wheel  |
| 23       | 95-1504  | 2    | Turnbuckle           |
| 24       | 32103-3  | 2    | Nut-Wing             |
| 25       | 95-1506  | 2    | Rod-Control, Lower   |
| 26       | 32128-21 | 4    | Nut-HF               |

| Ref. No. | Part No. | Qty. | Description             |
|----------|----------|------|-------------------------|
| 27       | 3290-307 | 2    | Pin-Hair                |
| 28       | 3290-378 | 3    | Tie-Cable               |
| 29       | 3234-11  | 4    | Screw-HHF               |
| 30       | 105-3174 | 1    | Gear/Pg Handle ASM      |
| 30:2     | 106-5514 | 1    | Decal-Control Panel     |
| 30:3     | 98-4387  | 1    | Decal-Protection, Ear   |
| 31       | 106-5501 | 1    | Decal-Control, Throttle |

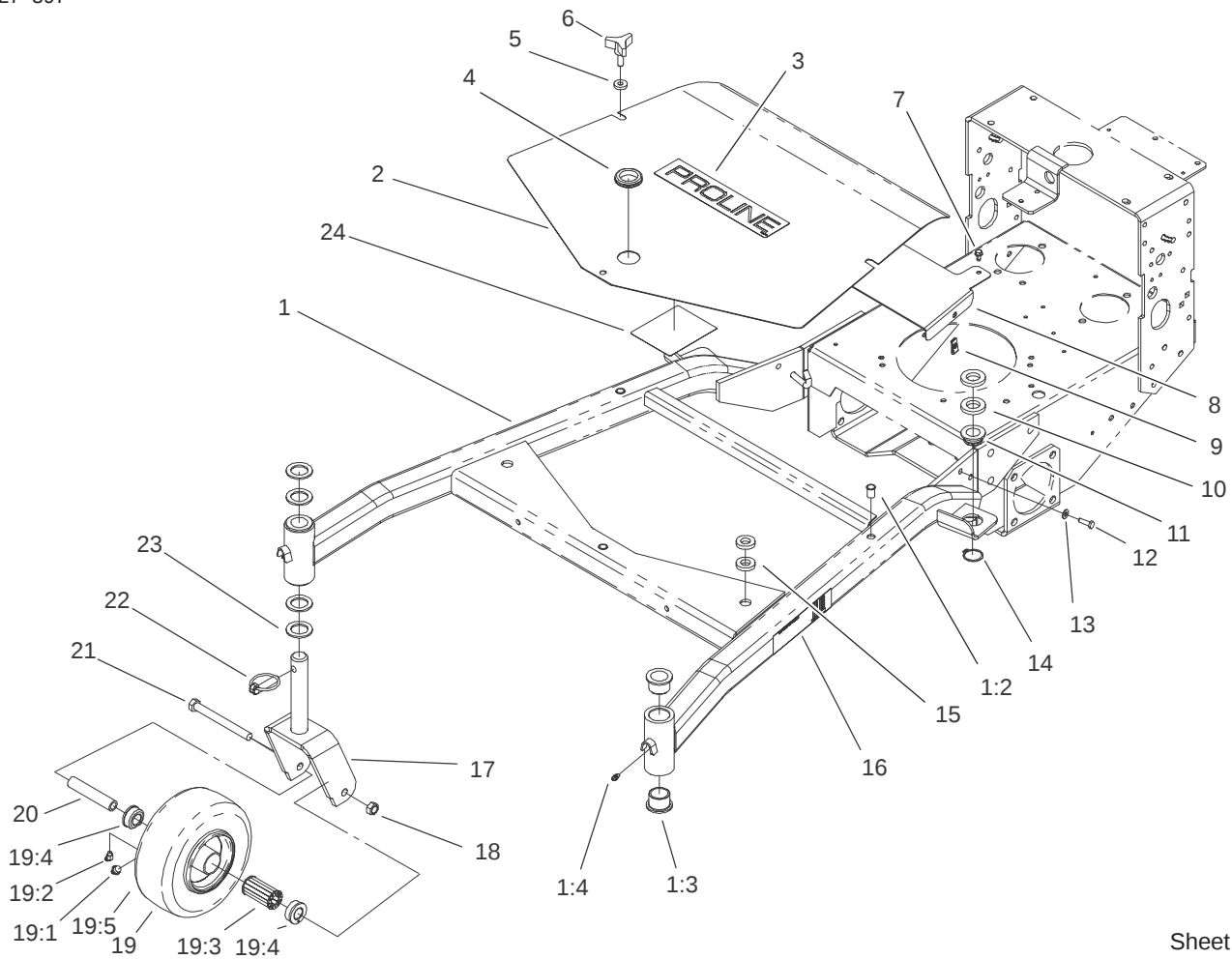


Sheet No.:9

## Control Panel Assembly

| Ref. No. | Part No.    | Qty. | Description               |
|----------|-------------|------|---------------------------|
| 1        | 29-5560     | 1    | Switch-On/Off             |
| 1:1      | 218-461     | 1    | Nut-HH                    |
| 1:2      | 3254-5      | 1    | Washer-Tooth              |
| 2        | 32105-14    | 2    | Screw                     |
| 3        | 32105-13    | 2    | Screw-SHH                 |
| 4        | 63-8360     | 1    | Key-Ignition              |
| 5        | 106-5487    | 1    | Gasket-Throttle           |
| 6        | 105-4113    | 1    | Control-Throttle          |
| 7        | 3296-2      | 6    | Nut-Lock                  |
| 8        | 95-7489     | 1    | Switch-PTO                |
| 9        | 3256-14     | 2    | Washer-Flat               |
| 11       | 32144-1     | 2    | Screw-Taptite             |
| 12       | 82-4570     | 1    | Plate-Switch              |
| 13       | 95-1653     | 1    | Switch-Pole, Single       |
| 14       | 105-4137-03 | 1    | Plate-Mounting,<br>Switch |
| 15       | 105-4146    | 1    | Decal-Relay, 24 Volt      |
| 16       | 105-4145    | 1    | Relay                     |
| 17       | 3290-321    | 2    | Screw-HWH                 |
| 18       | 2412-134    | 1    | R-Clamp                   |
| 19       | 32104-76    | 4    | Screw                     |
| 20       | 105-4112-03 | 1    | Bracket-Cover             |
| 21       | 2412-120    | 2    | R-Clamp                   |
| 22       | 104-7050    | 1    | Housing-Manual            |
| 23       | 104-7048    | 1    | Cap-Housing               |

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

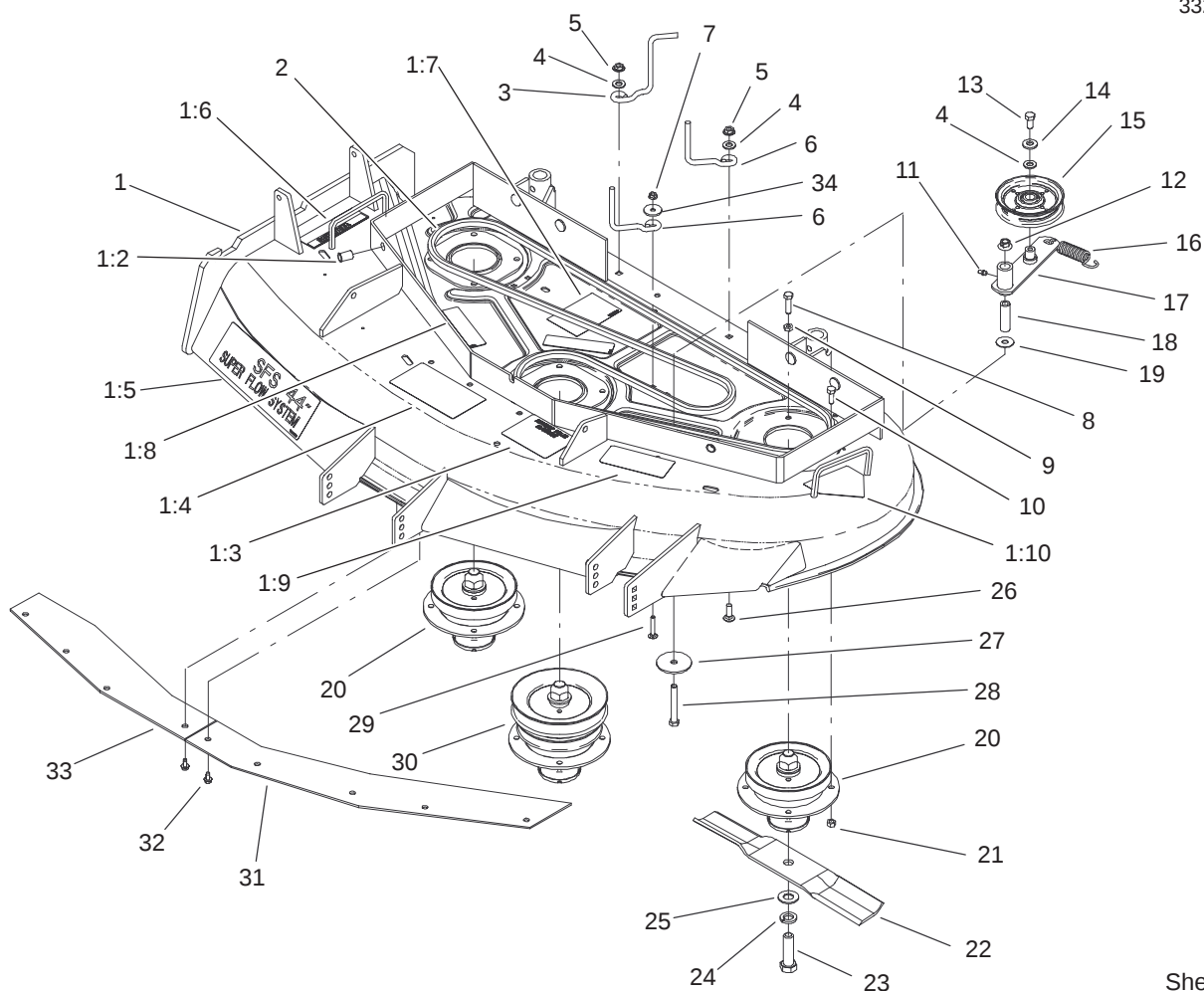


Sheet No.:2

## Carrier Frame Assembly

| Ref. No. | Part No.    | Qty. | Description          |
|----------|-------------|------|----------------------|
| 1        | 106-0707    | 1    | Carrier Frame ASM    |
| 1:2      | 32148-9     | 3    | Insert-Nut           |
| 1:3      | 94-1291     | 4    | Bushing-Special      |
| 1:4      | 302-5       | 2    | Fitting-Grease       |
| 2        | 106-0537-01 | 1    | Cover                |
| 3        | 106-0719    | 1    | Decal                |
| 4        | 240-3       | 1    | Grommet-Rubber       |
| 5        | 106-0565    | 3    | Washer-Rubber        |
| 6        | 104-8587    | 3    | Knob                 |
| 7        | 12-3270     | 2    | Screw                |
| 8        | 105-9389-01 | 1    | Shield-Heat          |
| 9        | 3290-199    | 2    | Nut-Speed            |
| 10       | 104-1105    | 4    | Spacer-Support, Deck |
| 11       | 1-513336    | 2    | Bushing-Deck         |
| 12       | 321-5       | 2    | Screw-HH             |
| 13       | 3256-22     | 2    | Washer-Flat          |
| 14       | 32120-33    | 2    | Ring-Retaining       |
| 15       | 105-0842    | 4    | Spacer               |
| 16       | 106-0635    | 2    | Decal-HOC            |
| 17       | 105-3159-01 | 2    | Castor Fork ASM      |
| 18       | 32153-5     | 2    | Nut-Lock             |
| 19       | 100-6451    | 2    | Castor Wheel ASM     |
| 19:1     | 232-27      | 1    | Stem-Valve           |
| 19:2     | 302-11      | 1    | Fitting-Lube, 45°    |
| 19:3     | 83-4740     | 1    | Bearing              |
| 19:4     | 62-5580     | 2    | Bearing-Outside      |

| Ref. No. | Part No. | Qty. | Description                     |
|----------|----------|------|---------------------------------|
| 19:5     | 100-6452 | 1    | Tire-Tubeless                   |
| 20       | 100-6453 | 2    | Bushing-Spanner                 |
| 21       | 325-19   | 2    | Screw-HH                        |
| 22       | 283-71   | 2    | Pin-Lynch                       |
| 23       | 3-6781   | 8    | Washer-Thrust                   |
| 24       | 106-5511 | 1    | Decal-Service, Gear Pistol Grip |

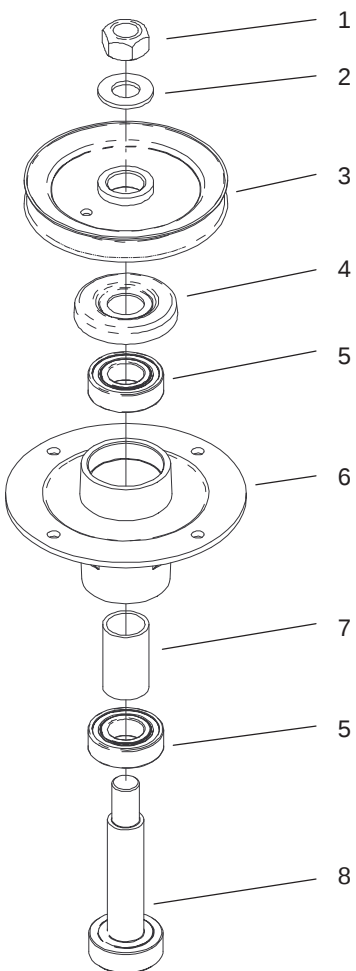


Sheet No.:3

## Spindle, Pulley and Belt Assembly

| Ref. No. | Part No. | Qty. | Description         |
|----------|----------|------|---------------------|
| 1        | 106-0617 | 1    | Deck ASM            |
| 1:2      | 32148-10 | 2    | Insert-Threaded     |
| 1:3      | 106-5532 | 1    | Decal-Anti Scalp    |
| 1:4      | 66-1340  | 1    | Decal-Danger        |
| 1:5      | 106-0704 | 1    | Decal               |
| 1:6      | 104-8569 | 1    | Decal-Warning       |
| 1:7      | 104-8186 | 1    | Decal-Routing, Belt |
| 1:8      | 67-5360  | 3    | Decal-Danger        |
| 1:9      | 68-8340  | 1    | Decal-Torque        |
| 1:10     | 43-8480  | 1    | Decal-Danger        |
| 2        | 27-1160  | 1    | V-Belt              |
| 3        | 106-5488 | 1    | Guide-Belt          |
| 4        | 3256-24  | 3    | Washer-Flat         |
| 5        | 32128-13 | 2    | Nut-HF              |
| 6        | 52-4780  | 2    | Rod-Belt            |
| 7        | 32128-10 | 1    | Locknut-Flange      |
| 8        | 322-6    | 1    | Screw-HH            |
| 9        | 3218-2   | 1    | Nut-Jam             |
| 10       | 322-4    | 11   | Screw-HH            |
| 11       | 302-19   | 1    | Fitting-Grease      |
| 12       | 32128-19 | 1    | Nut-HF              |
| 13       | 323-4    | 1    | Screw-HH            |
| 14       | 98-5975  | 1    | Washer-Belleville   |
| 15       | 65-5940  | 1    | Pulley-Idler        |
| 16       | 54-2730  | 1    | Spring-Extension    |
| 17       | 104-8110 | 1    | Idler Arm ASM       |

| Ref. No. | Part No.    | Qty. | Description             |
|----------|-------------|------|-------------------------|
| 18       | 104-8113    | 1    | Tube-Idler              |
| 19       | 52-2860     | 1    | Washer                  |
| 20       | 106-0786    | 2    | Spindle Housing ASM     |
| 21       | 32152-1     | 12   | Nut-Lock, NI            |
| 22       | 54-0010     | 3    | Blade                   |
| 23       | 51-4060     | 3    | Screw-Blade             |
| 24       | 3253-8      | 3    | Washer-Lock             |
| 25       | 3256-27     | 3    | Washer-Flat             |
| 26       | 3230-2      | 2    | Bolt-CARR               |
| 27       | 20-9530     | 1    | Washer-End              |
| 28       | 323-13      | 1    | Screw-HH                |
| 29       | 3229-4      | 1    | Screw-CARR              |
| 30       | 106-0784    | 1    | Spindle Housing ASM     |
| 31       | 100-3258-03 | 1    | Plate-Blowout, LH       |
| 32       | 12-3270     | 9    | Screw                   |
| 33       | 100-3257-03 | 1    | Plate-Blowout, RH       |
| 34       | 1-503033    | 1    | Washer-Retainer, Pulley |

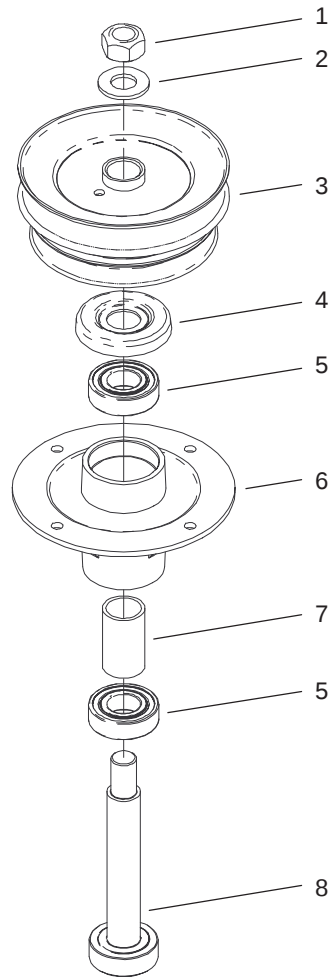


Sheet No.:A1

# Spindle Assembly No. 106-0786

| Ref. No. | Part No. | Qty. | Description     |
|----------|----------|------|-----------------|
| 1        | 3219-7   | 1    | Nut-Hex         |
| 2        | 7-4150   | 1    | Washer          |
| 3        | 104-1181 | 1    | Pulley ASM      |
| 4        | 106-0873 | 1    | Shield-Bearing  |
| 5        | 104-6325 | 2    | Bearing         |
| 6        | 106-0818 | 1    | Housing-Spindle |
| 7        | 106-0794 | 1    | Spacer-Bearing  |
| 8        | 106-0780 | 1    | Shaft-Spindle   |

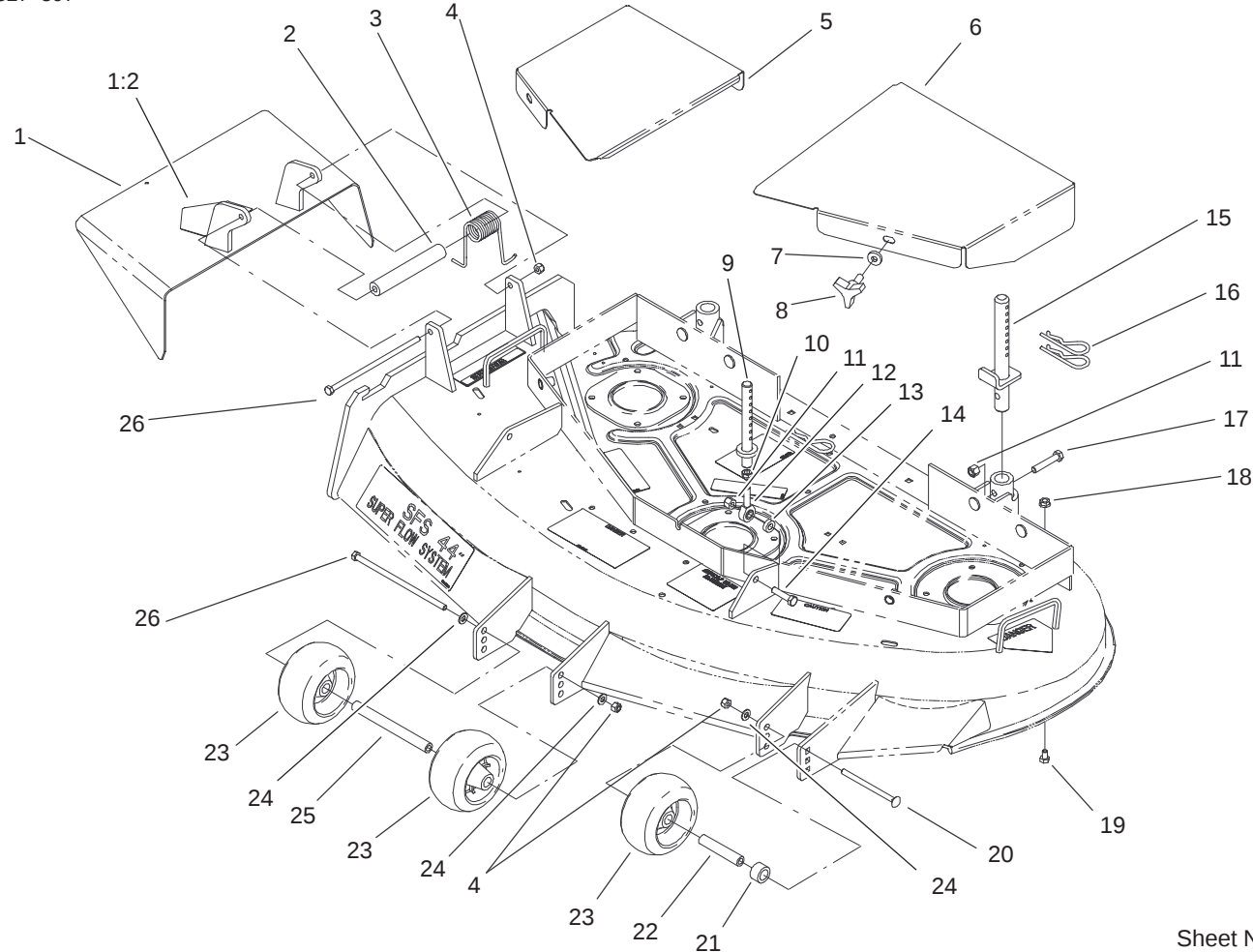
| Ref. No. | Part No. | Qty. | Description |
|----------|----------|------|-------------|
|          |          |      |             |



Sheet No.:A2

# Spindle Assembly No. 106-0784

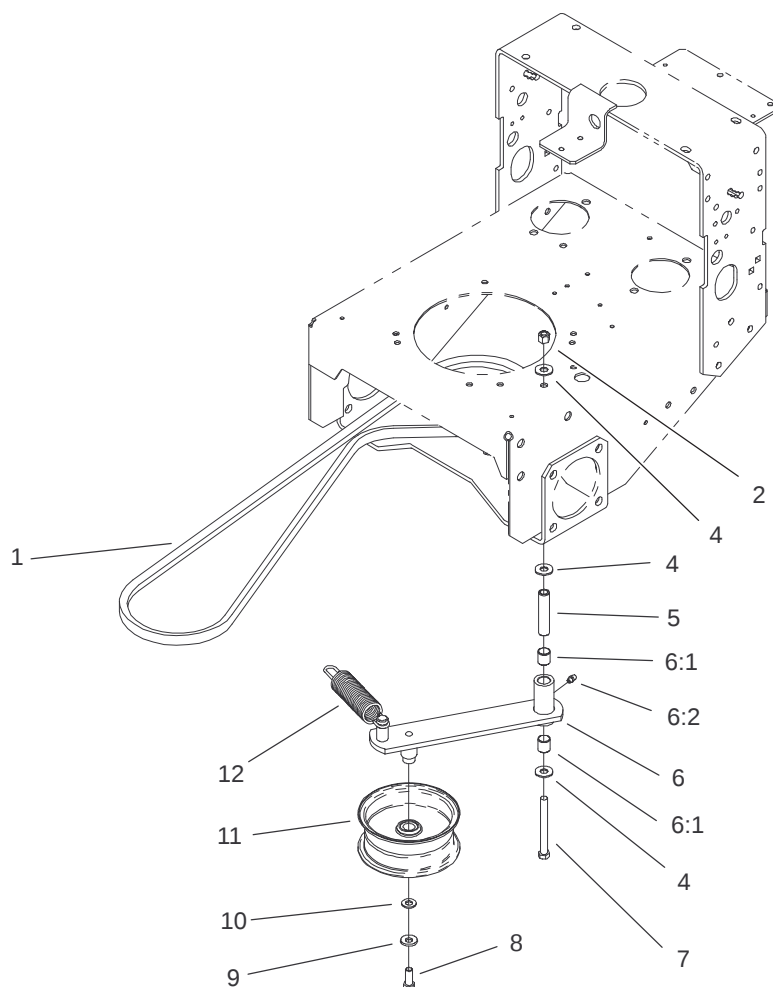
| Ref. No. | Part No. | Qty. | Description        |
|----------|----------|------|--------------------|
| 1        | 3219-7   | 1    | Nut-Hex            |
| 2        | 7-4150   | 1    | Washer             |
| 3        | 104-1116 | 1    | Pulley And Hub ASM |
| 4        | 106-0873 | 1    | Shield-Bearing     |
| 5        | 104-6325 | 2    | Bearing            |
| 6        | 106-0818 | 1    | Housing-Spindle    |
| 7        | 106-0794 | 1    | Spacer-Bearing     |
| 8        | 106-0779 | 1    | Shaft-Spindle      |



Sheet No.:4

Deck Assembly

| Ref. No. | Part No.    | Qty. | Description    | Ref. No. | Part No. | Qty. | Description |
|----------|-------------|------|----------------|----------|----------|------|-------------|
| 1        | 105-4625    | 1    | Deflector ASM  | 25       | 98-5967  | 1    | Spacer      |
| 1:2      | 93-1122     | 1    | Decal-Danger   | 26       | 322-50   | 2    | Screw-HH    |
| 2        | 105-4622    | 1    | Spacer         |          |          |      |             |
| 3        | 104-8554    | 1    | Spring-Torsion |          |          |      |             |
| 4        | 3296-29     | 3    | Nut-Lock, NI   |          |          |      |             |
| 5        | 106-3363-01 | 1    | Cover-Belt, RH |          |          |      |             |
| 6        | 106-3362-01 | 1    | Cover-Belt, LH |          |          |      |             |
| 7        | 106-0565    | 2    | Washer-Rubber  |          |          |      |             |
| 8        | 104-8587    | 2    | Knob           |          |          |      |             |
| 9        | 106-0684    | 2    | Front Pin ASM  |          |          |      |             |
| 10       | 3220-3      | 2    | Nut-Jam        |          |          |      |             |
| 11       | 3296-39     | 4    | Nut-Lock, NI   |          |          |      |             |
| 12       | 1-613204    | 2    | Balljoint      |          |          |      |             |
| 13       | 104-1156    | 2    | Spacer         |          |          |      |             |
| 14       | 323-8       | 2    | Screw-HH       |          |          |      |             |
| 15       | 106-3365    | 2    | Rear Pin ASM   |          |          |      |             |
| 16       | 3290-256    | 6    | Pin-Hair       |          |          |      |             |
| 17       | 323-10      | 2    | Screw-HH       |          |          |      |             |
| 18       | 32128-20    | 4    | Nut-HF         |          |          |      |             |
| 19       | 322-1       | 4    | Screw-HH       |          |          |      |             |
| 20       | 3230-30     | 1    | Screw-CARR     |          |          |      |             |
| 21       | 106-0563    | 1    | Spacer-Wheel   |          |          |      |             |
| 22       | 106-0545    | 1    | Bushing-Roller |          |          |      |             |
| 23       | 68-2730     | 3    | Wheel-Gage     |          |          |      |             |
| 24       | 3256-23     | 3    | Washer-Flat    |          |          |      |             |



Sheet No.:5

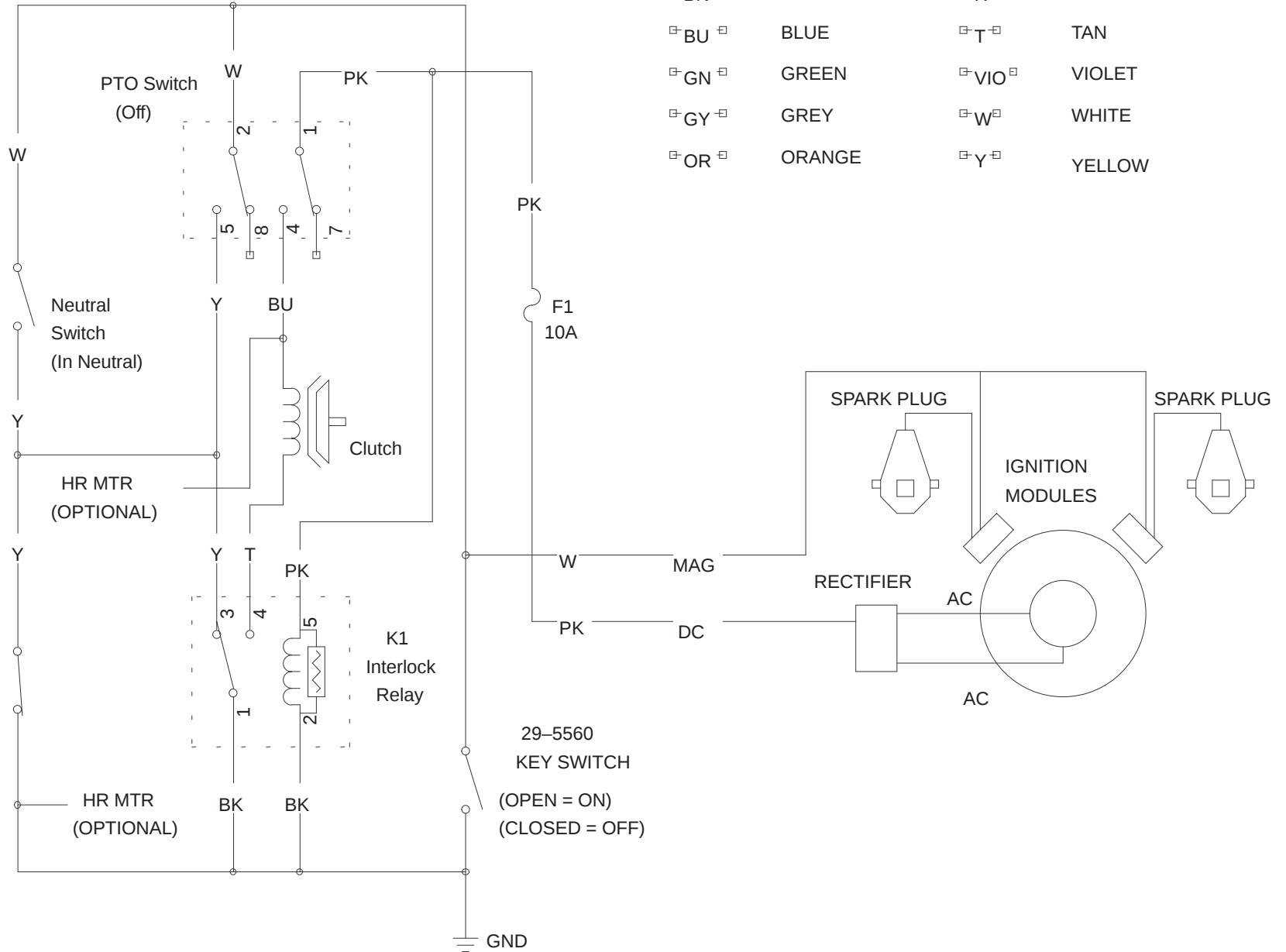
## Drive Belt and Tensioner Assembly

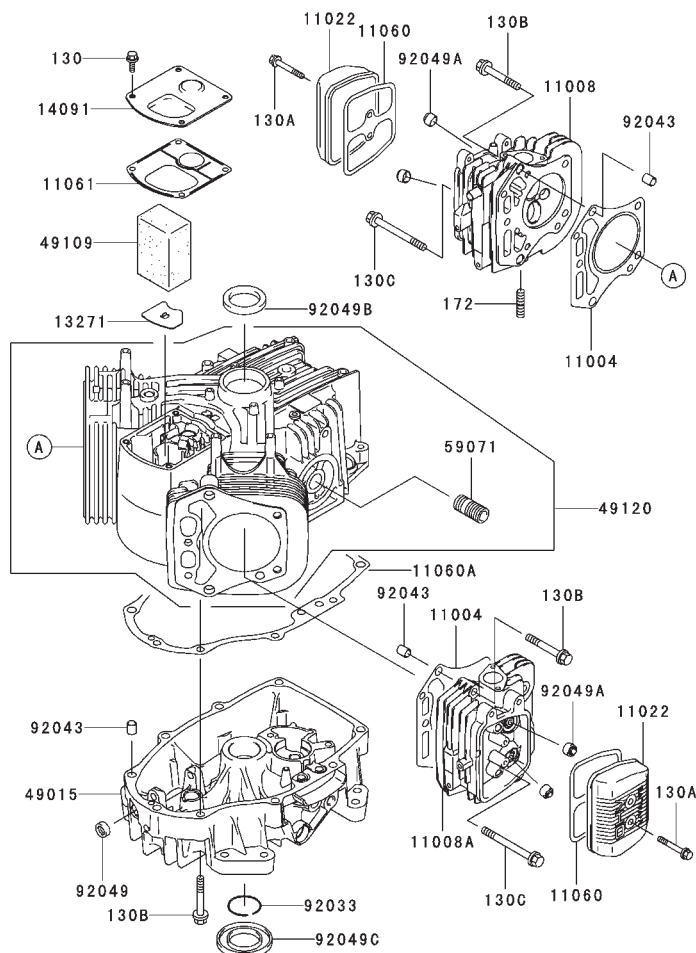
| Ref. No. | Part No. | Qty. | Description       |
|----------|----------|------|-------------------|
| 1        | 104-8120 | 1    | V-Belt, PTO       |
| 2        | 3296-39  | 1    | Nut-Lock, NI      |
| 4        | 1-809107 | 3    | Washer-Hardened   |
| 5        | 104-6377 | 1    | Tube-Idler        |
| 6        | 106-0734 | 1    | Idler Arm ASM     |
| 6:1      | 1-513034 | 2    | Sleeve-Bearing    |
| 6:2      | 302-5    | 1    | Fitting-Grease    |
| 7        | 323-42   | 1    | Screw-HH          |
| 8        | 323-6    | 1    | Screw-HH          |
| 9        | 98-5975  | 1    | Washer-Belleville |
| 10       | 3256-24  | 1    | Washer-Flat       |
| 11       | 1-413099 | 1    | Pulley-Idler      |
| 12       | 105-8443 | 1    | Spring-Extension  |

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

# Electrical Schematic

Operator  
Presence  
Switch  
(No Operator)

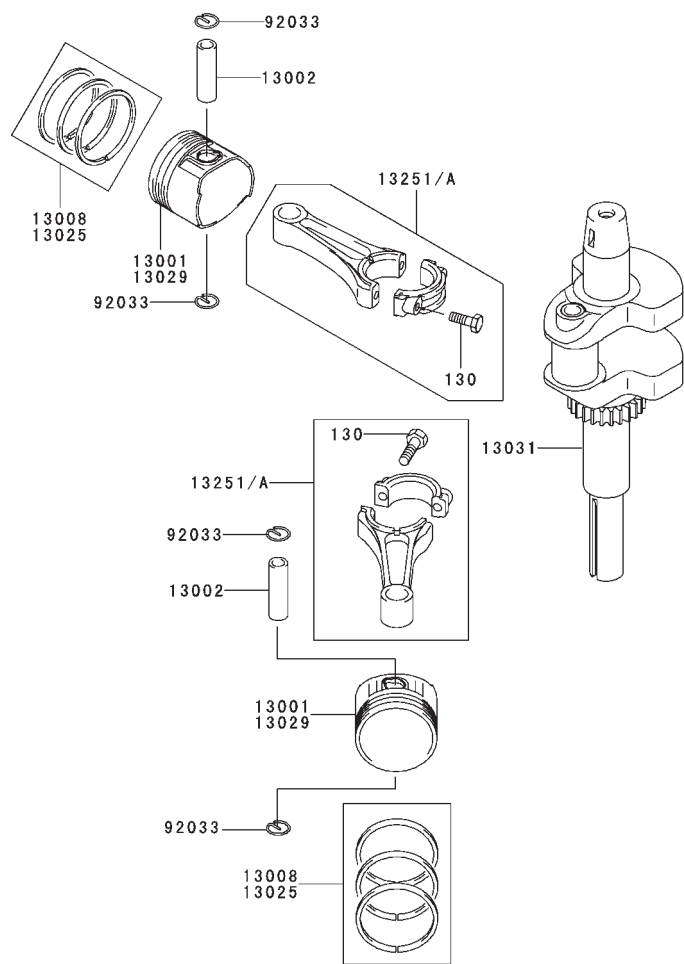




## Cylinder/Crankcase Assembly Kawasaki FH451V-AS11

| Ref. No. | Part No.   | Qty. | Description            | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|------------------------|----------|----------|------|-------------|
| 11004    | 11004-7005 | 2    | Gasket-Head            | 172      | 172G0818 | 4    | Bolt-Stud   |
| 11008    | 11008-6042 | 1    | Head-Comp-Cylinder     |          |          |      |             |
| 11008A   | 11008-7009 | 1    | Head-Comp-Cylinder     |          |          |      |             |
| 11022    | 11022-7003 | 2    | Case-Rocker            |          |          |      |             |
| 11060    | 11060-7001 | 2    | Gasket,Rocker Case     |          |          |      |             |
| 11060A   | 11060-7008 | 1    | Gasket,Crankcase Cover |          |          |      |             |
| 11061    | 11061-7001 | 1    | Gasket,Breather        |          |          |      |             |
| 13271    | 13271-7016 | 1    | Plate                  |          |          |      |             |
| 14091    | 14091-7006 | 1    | Cover                  |          |          |      |             |
| 49015    | 49015-6254 | 1    | Cover-Crankcase        |          |          |      |             |
| 49109    | 49109-7002 | 1    | Element-Breather       |          |          |      |             |
| 49120    | 49120-7021 | 1    | Crankcase-Comp         |          |          |      |             |
| 59071    | 59071-2079 | 1    | Joint                  |          |          |      |             |
| 92033    | 92033-7003 | 1    | Ring-Snap              |          |          |      |             |
| 92043    | 92043-7001 | 6    | Pin                    |          |          |      |             |
| 92049    | 92049-7005 | 4    | Seal-Oil               |          |          |      |             |
| 92049A   | 92049-7009 | 1    | Seal-Oil               |          |          |      |             |
| 92049B   | 92049-7010 | 1    | Seal-Oil               |          |          |      |             |
| 92049C   | 92049-7011 | 1    | Seal-Oil               |          |          |      |             |
| 130      | 130B0612   | 4    | Bolt-Flanged           |          |          |      |             |
| 130A     | 130B0640   | 4    | Bolt-Flanged           |          |          |      |             |
| 130B     | 130T0850   | 17   | Bolt-Flanged           |          |          |      |             |
| 130C     | 130T0875   | 2    | Bolt-Flanged           |          |          |      |             |

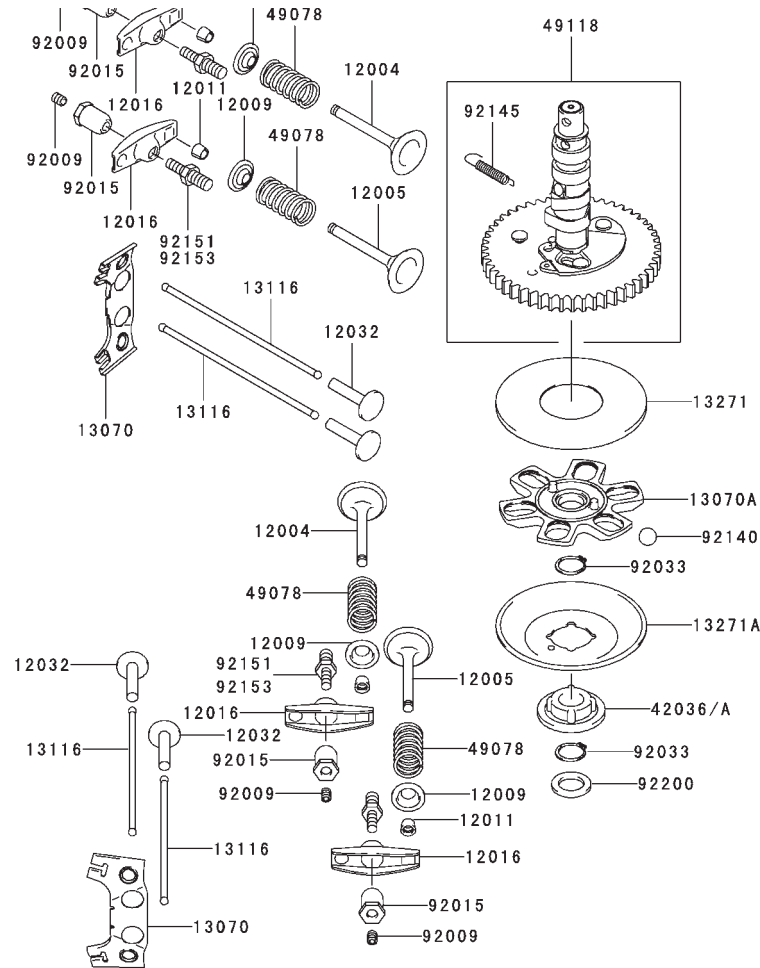
Obtain Parts from Kawasaki



**Piston/Crankshaft Assembly**  
**Kawasaki FH451V-AS11**

| Ref. No. | Part No.   | Qty. | Description                      | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|----------------------------------|----------|----------|------|-------------|
| 13001    | 13001-7008 | 2    | Piston-Engine                    |          |          |      |             |
| 13002    | 13002-7001 | 2    | Pin-Piston                       |          |          |      |             |
| 13008    | 13008-6055 | 2    | Ring-Set-Piston                  |          |          |      |             |
| 13025    | 13025-7001 | AR   | Ring-Set-Piston<br>L,0.50        |          |          |      |             |
| 13029    | 13029-7004 | AR   | Piston-Engine L,0.50             |          |          |      |             |
| 13031    | 13031-7001 | 1    | Crankshaft-Comp                  |          |          |      |             |
| 13251    | 13251-7003 | AR   | Rod-Assy-Connecting,<br>U/S=0.50 |          |          |      |             |
| 13251A   | 13251-7004 | 2    | Rod-Assy-Connecting              |          |          |      |             |
| 92033    | 92033-7005 | 4    | Ring-Snap                        |          |          |      |             |
| 130      | 130G0630   | 4    | Bolt-Flanged                     |          |          |      |             |

Obtain Parts from Kawasaki



## Valve/Camshaft Assembly Kawasaki FH451V-AS11

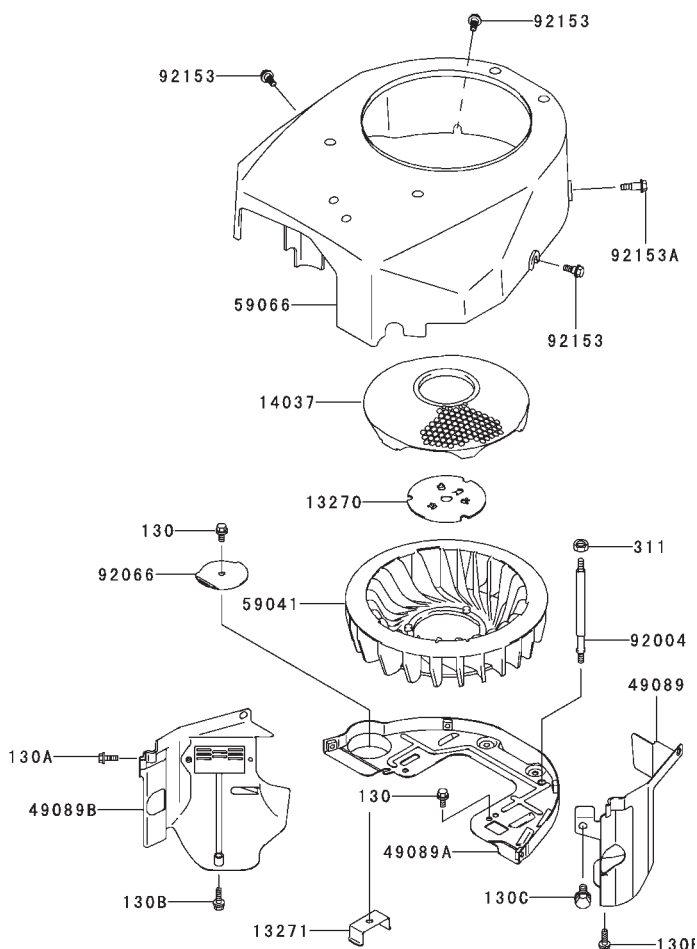
| Ref. No. | Part No.   | Qty. | Description           |
|----------|------------|------|-----------------------|
| 12004    | 12004-7003 | 2    | Valve-Intake          |
| 12005    | 12005-7003 | 2    | Valve-Exhaust         |
| 12009    | 12009-7001 | 4    | Retainer-Valve Spring |
| 12011    | 12011-2056 | 8    | Collet                |
| 12016    | 12016-7001 | 4    | Arm-Rocker            |
| 12032    | 12032-7001 | 4    | Tappet                |
| 13070    | 13070-7001 | 2    | Guide                 |
| 13070A   | 13070-7004 | 1    | Guide                 |
| 13116    | 13116-2057 | 4    | Rod-Push              |
| 13271    | 13271-7007 | 1    | Plate                 |
| 13271A   | 13271-7021 | 1    | Plate, Governor       |
| 42036    | 42036-7001 | 1    | Sleeve                |
| 42036A   | 42036-7009 | 1    | Sleeve                |
| 49078    | 49078-7001 | 4    | Spring-Engine Valve   |
| 49118    | 49118-7002 | 1    | Camshaft-Comp         |
| 92009    | 92009-2341 | 4    | Screw                 |
| 92015    | 92015-2253 | 4    | Nut                   |
| 92033    | 92033-7001 | 2    | Ring-Snap             |
| 92140    | 92140-7002 | 6    | Ball                  |
| 92145    | 92145-7001 | 1    | Spring                |
| 92151A   | 92151-7019 | 4    | Bolt                  |
| 92153A   | 92153-7019 | 4    | Bolt                  |
| 92200    | 92200-7001 | 1    | Washer                |

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

Obtain Parts from Kawasaki

| Ref. No. | Part No.   | Qty. | Description    |
|----------|------------|------|----------------|
| 13107    | 13107-7009 | 1    | Shaft          |
| 13271    | 13271-7017 | 1    | Plate          |
| 14075    | 14075-7009 | 1    | Cap-Assy       |
| 16154    | 16154-2053 | 1    | Rotor-Pump,In  |
| 16154A   | 16154-2054 | 1    | Rotor-Pump,Out |
| 49065    | 49065-2078 | 1    | Filter-Oil     |
| 49065A   | 49065-7004 | 1    | Filter-Oil     |
| 59051    | 59051-7011 | 1    | Gear-Spur      |
| 59231    | 59231-7005 | 1    | Filler         |
| 92043    | 92043-7003 | 1    | Pin            |
| 92066    | 92066-7003 | 2    | Plug           |
| 92140    | 92140-7003 | 1    | Ball           |
| 92145    | 92145-7002 | 1    | Spring         |
| 130      | 130B0612   | 3    | Bolt-Flanged   |
| 670      | 670D2016   | 4    | O Ring,16mm    |

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# Cooling Equipment Assembly Kawasaki FH451V-AS11

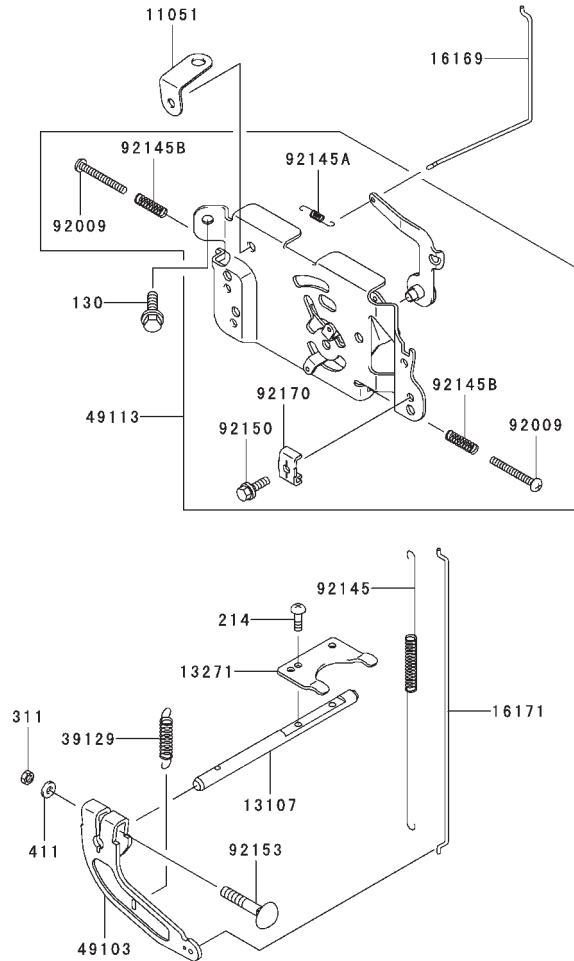
| Ref. No. | Part No.      | Qty. | Description         |
|----------|---------------|------|---------------------|
| 13270    | 13270-7007    | 1    | Plate               |
| 13271    | 13271-7002    | 1    | Plate               |
| 14037    | 14037-7015-9H | 1    | Screen              |
| 49089    | 49089-7002    | 1    | Shroud-Engine       |
| 49089A   | 49089-7032    | 1    | Shroud-Engine       |
| 49089B   | 49089-7034    | 1    | Shroud-Engine       |
| 59041    | 59041-7001    | 1    | Fan                 |
| 59066    | 59066-7002    | 1    | Housing-Fan         |
| 92004    | 92004-7006    | 2    | Stud                |
| 92009    | 92009-2308    | 2    | Screw               |
| 92026    | 92026-7001    | 3    | Spacer,6.2x7.9x5    |
| 92026A   | 92026-7003    | 1    | Spacer,6.5x7.9x10.5 |
| 92066    | 92066-7004    | 1    | Plug                |
| 92153    | 92153-7007    | 3    | Bolt                |
| 92153A   | 92153-7008    | 1    | Bolt                |
| 130      | 130B0612      | 3    | Bolt-Flanged        |
| 130A     | 130B0616      | 2    | Bolt-Flanged        |
| 130B     | 130B0625      | 2    | Bolt-Flanged        |
| 130C     | 130B0816      | 2    | Bolt-Flanged        |
| 311      | 311B0600      | 2    | Nut-Hex             |

## Obtain Parts from Kawasaki



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

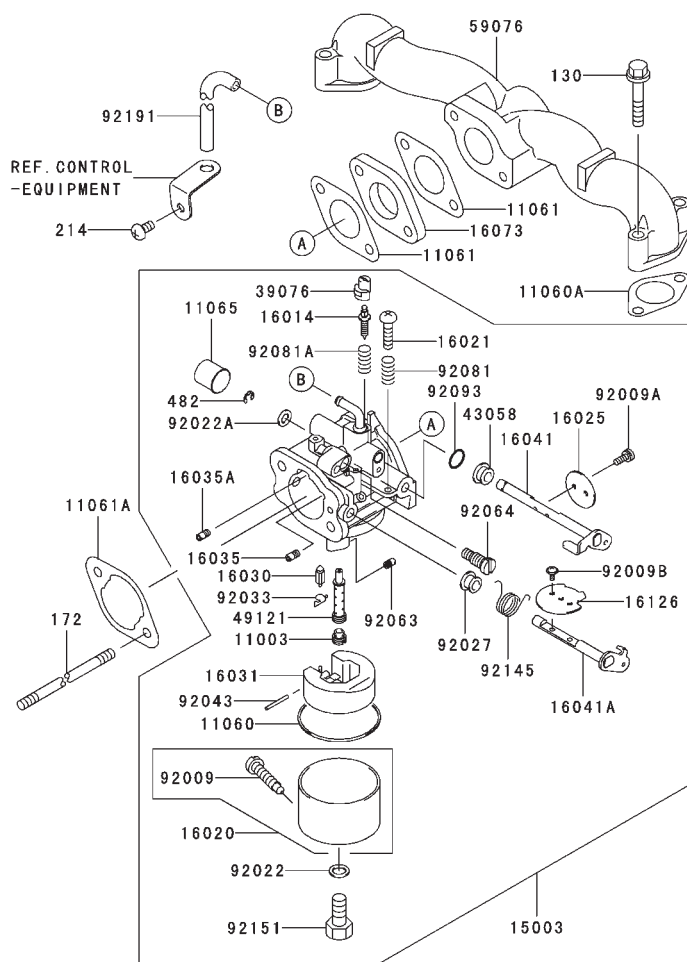
## Obtain Parts from Kawasaki



# Control Equipment Assembly Kawasaki FH451V-AS11

| Ref. No. | Part No.   | Qty. | Description        | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|--------------------|----------|----------|------|-------------|
| 11051    | 11051-7008 | 1    | Bracket            |          |          |      |             |
| 13107    | 13107-7010 | 1    | Shaft              |          |          |      |             |
| 13271    | 13271-7018 | 1    | Plate              |          |          |      |             |
| 16169    | 16169-7010 | 1    | Link-Choke         |          |          |      |             |
| 16171    | 16171-7001 | 1    | Link               |          |          |      |             |
| 39129    | 39129-7003 | 1    | Spring-Governor    |          |          |      |             |
| 49103    | 49103-7004 | 1    | Arm-Governor       |          |          |      |             |
| 49113    | 49113-7027 | 1    | Panel-Comp-Control |          |          |      |             |
| 92009    | 92009-7007 | 1    | Screw,4x35         |          |          |      |             |
| 92145    | 92145-7003 | 1    | Spring             |          |          |      |             |
| 92145A   | 92145-7004 | 1    | Spring             |          |          |      |             |
| 92145B   | 92145-7005 | 1    | Spring             |          |          |      |             |
| 92150    | 92150-2182 | 2    | Bolt,5x18          |          |          |      |             |
| 92153    | 92153-7005 | 1    | Bolt,6x35          |          |          |      |             |
| 92170    | 92170-7001 | 2    | Clamp              |          |          |      |             |
| 130      | 130B0612   | 2    | Bolt-Flanged       |          |          |      |             |
| 214      | 214B0408   | 2    | Screw-Pan+-        |          |          |      |             |
| 311      | 311B0600   | 1    | Nut-Hex            |          |          |      |             |
| 411      | 411B0600   | 1    | Washer-Plain       |          |          |      |             |

Obtain Parts from Kawasaki

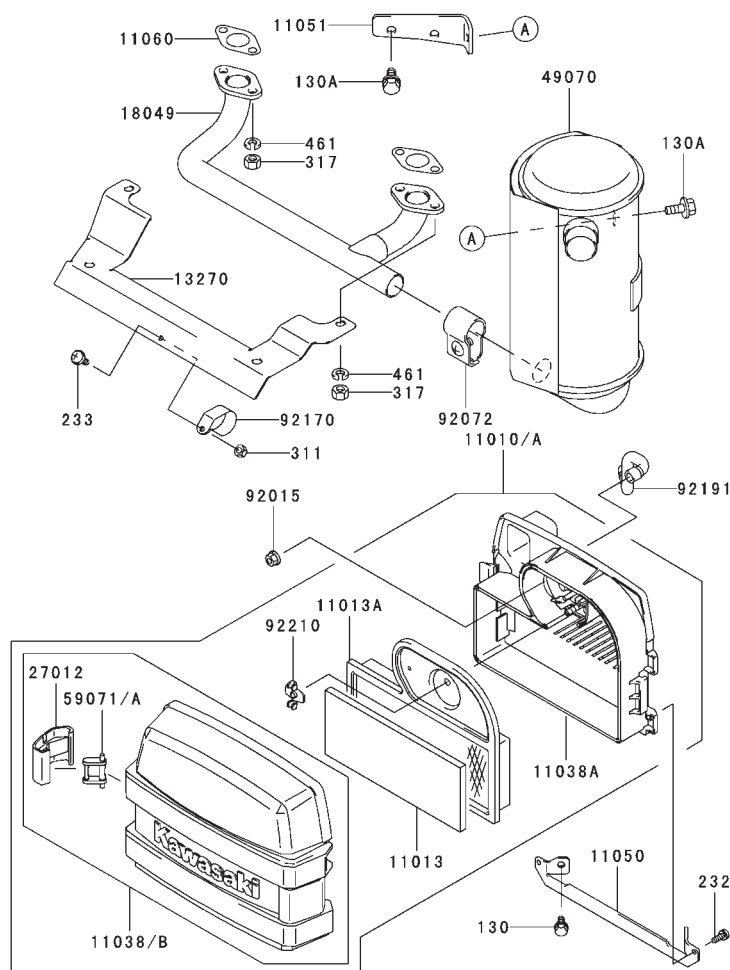


## Carburetor Assembly Kawasaki FH451V-AS11

| Ref. No. | Part No.   | Qty. | Description         |
|----------|------------|------|---------------------|
|          | 11003      | 1    | Seat-Valve          |
|          | 11060      | 1    | Gasket              |
| 11060A   | 11060-7005 | 2    | Gasket,Manifold     |
|          | 11061      | 2    | Gasket,Insulator    |
| 11061A   | 11061-7018 | 2    | Gasket,Air Cleaner  |
|          | 11065      | 1    | Cap                 |
|          | 15003      | 1    | Carburetor-Assy     |
|          | 16014      | 1    | Screw-Pilot Air     |
|          | 16020      | 1    | Chamber-Float       |
|          | 16021      | 1    | Screw-Throttle Stop |
|          | 16025      | 1    | Valve-Throttle,#130 |
|          | 16030      | 1    | Valve-Float         |
|          | 16031      | 1    | Float               |
|          | 16035      | 1    | Jet-Air,#1.7        |
| 16035A   | 16035-2061 | 1    | Jet-Air,#1.2        |
|          | 16041      | 1    | Shaft-Carburetor    |
| 16041A   | 16041-7006 | 1    | Shaft-Carburetor    |
|          | 16073      | 1    | Insulator           |
|          | 16126      | 1    | Valve               |
|          | 39076      | 1    | Limiter             |
|          | 43058      | 1    | Ring                |
|          | 49121      | 1    | Nozzle-Main,#113a   |
|          | 59076      | 1    | Manifold-Intake     |
|          | 92009      | 1    | Screw               |

| Ref. No. | Part No.   | Qty. | Description        |
|----------|------------|------|--------------------|
| 92009A   | 92009-2024 | 2    | Screw              |
| 92009B   | 92009-2081 | 2    | Screw              |
|          | 92022      | 1    | Washer             |
| 92022A   | 92022-2239 | 1    | Washer             |
|          | 92027      | 1    | Collar             |
|          | 92033      | 1    | Ring-Snap          |
|          | 92043      | 1    | Pin                |
|          | 92063      | 1    | Jet-Main,#125      |
|          | 92064      | 1    | Jet-Pilot,#48.8    |
|          | 92081      | 1    | Spring             |
| 92081A   | 92081-2256 | 1    | Spring             |
|          | 92093      | 1    | Seal               |
|          | 92145      | 1    | Spring             |
|          | 92151      | 1    | Bolt               |
| 92191    | 92191-7016 | 1    | Tube,4.76x7.94x225 |
|          | 130        | 4    | Bolt-Flanged       |
|          | 172        | 2    | Bolt-Stud          |
|          | 214        | 1    | Screw-Pan+-        |
|          | 482        | 1    | Circlip-Type-E     |

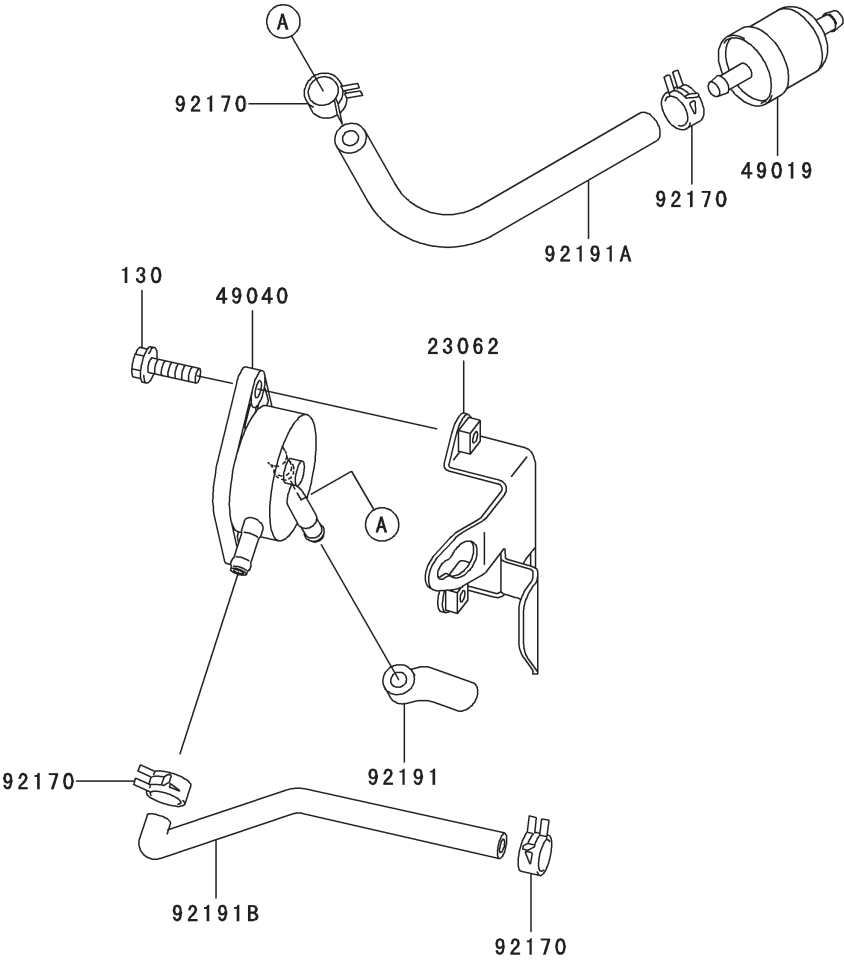
Obtain Parts from Kawasaki



## Air Filter/Muffler Assembly Kawasaki FH451V-AS11

| Ref. No. | Part No.      | Qty. | Description          | Ref. No. | Part No. | Qty. | Description    |
|----------|---------------|------|----------------------|----------|----------|------|----------------|
| 11010    | 11010-7007    | 1    | Filter-Assy-Air      | 233      | 233B0416 | 1    | Screw-Pan-WP+- |
| 11010A   | 11010-7012    | 1    | Filter-Assy-Air      | 311      | 311B0400 | 1    | Nut-Hex        |
| 11013    | 11013-7001    | 1    | Element-Air Filter   | 317      | 317R0800 | 4    | Nut-Hex-Small  |
| 11013A   | 11013-7002    | 1    | Element-Air Filter   | 461      | 461F0800 | 4    | Washer-Spring  |
| 11038    | 11038-7001    | 1    | Case-Assy-Air Filter |          |          |      |                |
| 11038A   | 11038-7006    | 1    | Case-Assy-Air Filter |          |          |      |                |
| 11038B   | 11038-7009    | 1    | Case-Assy-Air Filter |          |          |      |                |
| 11050    | 11050-7006    | 1    | Bracket              |          |          |      |                |
| 11051    | 11051-7005-9H | 1    | Bracket              |          |          |      |                |
| 11060    | 11060-7021    | 2    | Gasket,Muffler       |          |          |      |                |
| 13270    | 13270-7008    | 1    | Plate                |          |          |      |                |
| 18049    | 18049-7001    | 1    | Pipe-Exhaust         |          |          |      |                |
| 27012    | 27012-7001    | 2    | Hook,Air Filter      |          |          |      |                |
| 49070    | 49070-7002    | 1    | Muffler-Comp         |          |          |      |                |
| 59071    | 59071-7001    | 2    | Joint                |          |          |      |                |
| 59071A   | 59071-7013    | 2    | Joint                |          |          |      |                |
| 92015    | 92015-1193    | 2    | Nut                  |          |          |      |                |
| 92072    | 92072-7008    | 1    | Band                 |          |          |      |                |
| 92170    | 92170-7002    | 1    | Clamp                |          |          |      |                |
| 92191    | 92191-7001    | 1    | Tube                 |          |          |      |                |
| 92210    | 92210-7004    | 1    | Nut                  |          |          |      |                |
| 130      | 130B0612      | 2    | Bolt-Flanged         |          |          |      |                |
| 130A     | 130B0816      | 2    | Bolt-Flanged         |          |          |      |                |
| 232      | 232B0514      | 2    | Screw-Pan-WS+-       |          |          |      |                |

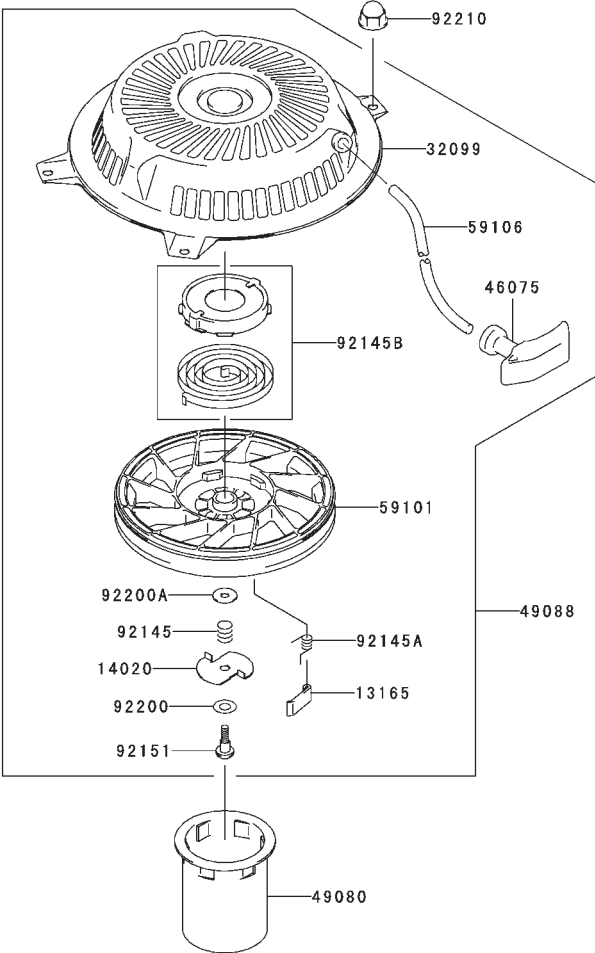
Obtain Parts from Kawasaki



**Fuel Tank/Fuel Valve Assembly**  
**Kawasaki FH451V-AS11**

| Ref. No. | Part No.      | Qty. | Description        | Ref. No. | Part No. | Qty. | Description |
|----------|---------------|------|--------------------|----------|----------|------|-------------|
| 23062    | 23062-7004-9H | 1    | Bracket-Comp       |          |          |      |             |
| 49019    | 49019-7001    | 1    | Filter-Fuel        |          |          |      |             |
| 49040    | 49040-7001    | 1    | Pump-Fuel          |          |          |      |             |
| 92170    | 92170-2088    | 4    | Clamp              |          |          |      |             |
| 92191    | 92191-7002    | 1    | Tube               |          |          |      |             |
| 92191A   | 92191-7003    | 1    | Tube,6.35x12.7x160 |          |          |      |             |
| 92191B   | 92191-7004    | 1    | Tube               |          |          |      |             |
| 130      | 130B0620      | 2    | Bolt-Flanged       |          |          |      |             |

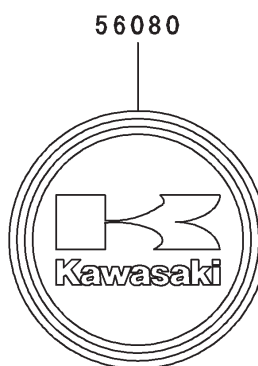
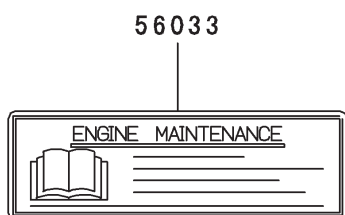
Obtain Parts from Kawasaki



# **Starter Assembly** **Kawasaki FH451V-AS11**

| Ref. No. | Part No.   | Qty. | Description         | Ref. No. | Part No. | Qty. | Description |
|----------|------------|------|---------------------|----------|----------|------|-------------|
| 13165    | 13165-7001 | 2    | Pawl,Recoil Starter |          |          |      |             |
| 14020    | 14020-7001 | 1    | Retainer            |          |          |      |             |
| 32099    | 32099-7001 | 1    | Case,Recoil Starter |          |          |      |             |
| 46075    | 46075-7001 | 1    | Grip,Recoil Starter |          |          |      |             |
| 49080    | 49080-7001 | 1    | Pulley-Starting     |          |          |      |             |
| 49088    | 49088-7001 | 1    | Starter-Recoil      |          |          |      |             |
| 59101    | 59101-7001 | 1    | Reel,Recoil Starter |          |          |      |             |
| 59106    | 59106-7001 | 1    | Rope                |          |          |      |             |
| 92145    | 92145-7006 | 1    | Spring              |          |          |      |             |
| 92145A   | 92145-7007 | 2    | Spring              |          |          |      |             |
| 92145B   | 92145-7008 | 1    | Spring              |          |          |      |             |
| 92151    | 92151-7008 | 1    | Bolt                |          |          |      |             |
| 92200    | 92200-7004 | 1    | Washer              |          |          |      |             |
| 92200A   | 92200-7005 | 1    | Washer              |          |          |      |             |
| 92210    | 92210-0003 | 4    | Nut                 |          |          |      |             |

Obtain Parts from Kawasaki



# Label Assembly Kawasaki FH451V-AS11

| Ref. No. | Part No.   | Qty. | Description  |
|----------|------------|------|--------------|
| 56033    | 56033-7001 | 1    | Label-Manual |
| 56080    | 56080-2077 | 1    | Label-Brand  |
| 56080A   | 56080-7010 | 1    | Label-Brand  |

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

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## Maintenance Record

[illegible]

## Maintenance Record

[illegible]

## Maintenance Record

[illegible]

