Serial Number Description

ENGINE

P  KAWASAKI 31 HP FD851D DFI GAS LC

Notes

• If any component requires replacement, use only original Ventrac replacement parts.
• When ordering new components, be sure to order all required safety decals. All current safety decals must be affixed to the replacement components prior to installation of the component.
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## CONTROLS & LINKAGE

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<td>PTO Belt Tension Linkage</td>
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<td>70.4107 Foot Control Kit</td>
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<td>70.4106 PTO Remote Kit</td>
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<td>70.4120 Horn Kit</td>
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Harness Section Identifier

A = 32.0108 - Harness, Rear
B = 32.0109 - Harness, Dash
C = 32.0110 - Harness, Front
D = 32.0107 - Harness, B&S Engine
E = 32.0105 - Harness, Kawasaki Engine
F = 32.0104 - Harness, Kubota Gas
G = 32.0106 - Harness, Kubota Diesel
H =
I =
J = 32.0114 - Harness, Kit - 12v Front
K = 32.0113 - Harness, Kit - 12v Rear
L = 32.0120 - Harness, Kit - 12v Dual Hydraulic
M = 32.0119 - Harness, Kit - Propane
N = 32.0121 - Harness, Kit - PTO Remote
O = 32.0115 - Harness, Kit - Horn
P = 32.0122 - Harness, Kit - Backup Alarm
Q = 32.0118 - Harness, Kit - Directional
R = 32.0117 - Harness, Kit - Strobe Light
S = 32.0116 - Harness, Kit - Work Light
T = 32.0123 - Harness, Kit - Slope Indicator

*@ = 32.0160 - Harness, Kubota WG972
"^" = 32.0159 - Harness, Kawasaki FD851D Fused

* Actual wires not labeled on tractor harness

Wire Color & Circuit Type

Black = Ground
Dark Blue = Pre-Heat
Lt Blue = Safety Circuit
Brown = Engine Run / Kill
Gray = 12v Aux / Horn power
Green = Start/Speed/Directional
Lt Green = 12 Aux
Orange = Propane / Slope
Pink = Alarm
Purple = PTO
Red = Power
Tan = RPM
White = Power
Yellow = Light/Directional

--- = *Black Wire
--- = White Wire
][= Ground
● = Splice or Connection

* All black wires that are part of the wire harness are part of the ground circuit. However, some components such as lights may be wired where black may be positive.

All other wires colors are as shown

Anything outlined with a blue box is a Standard Feature
Anything outlined with a Green box is a Option

* Actual wires not labeled on tractor harness
This connector (4-pin socket) is designed for use with Ventrac original equipment only. This connector (4-pin socket) is rated for 20 amp maximum current draw. Engine alternator and/or battery capacity determine allowable continuous draw.

30.0219 4-pin female socket is used in the 70.4104 12 Volt Front kit & 70.4105 12 Volt Rear Kit.

30.0219 4-Pin Female Socket

Front View of Socket
Without Cover

Rear View of Socket

<table>
<thead>
<tr>
<th>Terminal Position</th>
<th>Wire Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>White</td>
<td>Positive (On/Off Switched)</td>
</tr>
<tr>
<td>2</td>
<td>Black</td>
<td>Negative (Constant)</td>
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<tr>
<td>3</td>
<td>Red</td>
<td>Positive/Negative (Momentary Switched Reversing)</td>
</tr>
<tr>
<td>4</td>
<td>Green or Brown</td>
<td>Positive/Negative (Momentary Switched Reversing)</td>
</tr>
</tbody>
</table>

30.0219 4-Pin Female Socket

30.0218 4-Pin Male Plug

30.0218 4-pin plug is used on attachments to connect to the 30.0219 socket on the power unit.

Front View of Plug

Rear View of Plug

<table>
<thead>
<tr>
<th>Terminal Position</th>
<th>Wire Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not Specified*</td>
<td>Positive (On/Off Switched)</td>
</tr>
<tr>
<td>2</td>
<td>Not Specified*</td>
<td>Negative (Constant)</td>
</tr>
<tr>
<td>3</td>
<td>Not Specified*</td>
<td>Positive/Negative (Momentary Switched Reversing)</td>
</tr>
<tr>
<td>4</td>
<td>Not Specified*</td>
<td>Positive/Negative (Momentary Switched Reversing)</td>
</tr>
</tbody>
</table>

* Refer to the part diagram in the attachment’s operator’s manual for specific wire color and terminal position for each model.
ILLUSTRATED DRAWING
Tractor Control Module
### ELECTRICAL

#### Tractor Control Module

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<td>35.0128</td>
<td>MODULE, TRACTOR CONTROL (Serial # 01001-02478)</td>
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<tr>
<td>1</td>
<td>35.0146</td>
<td>MODULE, TRACTOR CONTROL (Serial # 02479-04921)</td>
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<td>1</td>
<td>35.0134</td>
<td>MODULE, TRACTOR CONTROL (Serial # 04922)</td>
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<td>2</td>
<td>64.1690</td>
<td>BRACKET, TCM</td>
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<tr>
<td>3</td>
<td>05.0135</td>
<td>ISOLATOR, 1/4-20 X 1/2 X 1&quot; F/M</td>
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<tr>
<td>4</td>
<td>99.SF04</td>
<td>NUT, SRF 1/4-20 USS</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>95.04</td>
<td>WASHER, FLAT 1/4 SAE</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>90.0408</td>
<td>BOLT, 1/4-20 USS X 1&quot;</td>
<td>2</td>
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To engine ground

Starter and engine ground locations will vary by engine model.

To starter

To power relay module
## ELECTRICAL

### Battery, Power Cables, & Ground Cables

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<td>1</td>
<td>99.G0003</td>
<td>WASHER, STAR-EXTERNAL 5/16</td>
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<tr>
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<td>99.SF05</td>
<td>NUT, SRF 5/16-18 USS</td>
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<tr>
<td>3</td>
<td>95.05</td>
<td>WASHER, FLAT 5/16 SAE</td>
<td>5</td>
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<tr>
<td>4</td>
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<td>99.A05N</td>
<td>LOCKNUT, NYLON 5/16-18 USS</td>
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<td>30.0338</td>
<td>BREAKER, CIRCUIT 150 AMP</td>
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<td>7</td>
<td>60.1117</td>
<td>PANEL, FOOT PLATFORM LEFT</td>
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<td>60.1116</td>
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<td>RETAINER, BATTERY HOLD DOWN</td>
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<td>BATTERY, GROUP 51-60</td>
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<td>11</td>
<td>99.E0046</td>
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<td>12</td>
<td>06.0044</td>
<td>CAP, PLASTIC 1/8 X 1/2 X 7/8</td>
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<td>13</td>
<td>90.0506</td>
<td>BOLT, 5/16-18 USS X 3/4&quot;</td>
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<td>15</td>
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<td>NUT, JAM 5/16-18 USS</td>
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<td>16</td>
<td>05.0122</td>
<td>WASHER, ANTI CORROSION BLACK</td>
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<td>17</td>
<td>05.0121</td>
<td>WASHER, ANTI CORROSION RED</td>
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<td>18</td>
<td>32.0101</td>
<td>CABLE, ASM NEG BATTERY 4GA</td>
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<td>19</td>
<td>32.0100</td>
<td>CABLE, ASM POS BATTERY 4GA</td>
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<td>32.0111</td>
<td>CABLE, ASM POS 6 GA</td>
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<td>CABLE, ASM NEG 4GA</td>
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<td>32.0103</td>
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<td>23</td>
<td>32.0102</td>
<td>CABLE, ASM POS 4GA</td>
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Battery, Power Cables, & Ground Cables
Reference 15 relays are installed in Position 1 - 2 and Position 3 - 4 as referenced by shaded ports. The relays must be oriented with the single center pin down.
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<th>QTY.</th>
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<td>1</td>
<td>30.0334</td>
<td>FUSE, 15 AMP MINI BLUE</td>
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<td>2</td>
<td>30.0332</td>
<td>FUSE, 5 AMP MINI TAN</td>
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</tr>
<tr>
<td>3</td>
<td>30.0332</td>
<td>FUSE, 5 AMP MINI TAN</td>
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<tr>
<td>4</td>
<td>30.0334</td>
<td>FUSE, 15 AMP MINI BLUE</td>
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<tr>
<td>5</td>
<td>30.0333</td>
<td>FUSE, 10 AMP MINI RED</td>
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<tr>
<td>6</td>
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<td>FUSE, 15 AMP MINI BLUE</td>
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<tr>
<td>7</td>
<td>30.0333</td>
<td>FUSE, 10 AMP MINI RED</td>
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<td>8</td>
<td>30.0332</td>
<td>FUSE, 5 AMP MINI TAN</td>
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<td>9</td>
<td>30.0333</td>
<td>FUSE, 10 AMP MINI RED</td>
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<td>FUSE, 15 AMP MINI BLUE</td>
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<tr>
<td>11</td>
<td>64.1648</td>
<td>BRACKET, FUSE PANEL MOUNT</td>
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<td>12</td>
<td>30.0334</td>
<td>FUSE PANEL, MINI NON-BUSSED</td>
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### Ref. # / Position

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<td>3*</td>
<td>Spreader Vibrator</td>
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<td>4*</td>
<td>12 Volt Rear</td>
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<tr>
<td>5*</td>
<td>Slope Indicator</td>
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<td>12 Volt Front 1</td>
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<td>12 Volt Front 2</td>
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<td>8*</td>
<td>Hydraulic Auxiliary</td>
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<td>10</td>
<td>Hydraulic Oil Cooler Fan</td>
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*Optional Accessory

Reference 14 relay is installed in Position 1 - 2 as referenced by shaded ports. The relay must be oriented with the single center pin down.
## Rear Fuse Panel

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**Notes:**
- **ELECTRICAL**
- **Rear Fuse Panel**
## Power Relay Module

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<td>FUSE, 50A J-CASE ORANGE</td>
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# ELECTRICAL

## RPM Sensor

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<td>BOLT, SMF 1/4-20 X 5/8</td>
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<td>3</td>
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<td>WASHER, FLAT 3/8 SAE</td>
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<td>BRACKET, RPM SENSOR MOUNT</td>
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<td>64.1655</td>
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<td>TRIGGER, IGNITION</td>
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### Speedometer Sensor

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Any part of the closed loop hydrostatic drive circuit (pump, front drive motor, rear drive motor, or any of the three 1/2" hydraulic lines connecting them together) is serviced or replaced, the Ventrac closed loop drive circuit filtration procedure must be performed. This procedure requires a special Ventrac remote filtering tool (kit # 70.0122) and must be performed by a Ventrac authorized technician. Failure to perform this filtering procedure following a repair can result in component and/or complete system failure and may void warranty.
<table>
<thead>
<tr>
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<th>PART NO.</th>
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<th>QTY.</th>
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<td>HOSE, 1/2X74.50 SS BRAID PTFE</td>
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<td>HOSE, 1/2X18.38 SS BRAID PTFE</td>
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<td>HOSE, 3/8X56.00 SAE 100R17 AR</td>
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**When replacing the front motor, the shaft seal must be removed.
When replacing the rear motor, the shaft seal MUST NOT be removed.
**O-Ring Chart**

### Straight Thread O-Ring Boss - O-Ring Replacement Part Numbers

<table>
<thead>
<tr>
<th>SAE Fitting Size</th>
<th>Thread Size</th>
<th>VPI Part #</th>
<th>ID</th>
<th>OD</th>
<th>Width</th>
<th>AS568A Dash #</th>
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<tbody>
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<td>0.495&quot;</td>
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<td>0.078&quot;</td>
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<tr>
<td>-08</td>
<td>3/4-16</td>
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<td>0.644&quot;</td>
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### O-Ring Face Seal Hose - O-Ring Replacement Part Numbers

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<th>VPI Part #</th>
<th>ID</th>
<th>OD</th>
<th>Width</th>
<th>AS568A Dash #</th>
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<td>1.066&quot;</td>
<td>0.070&quot;</td>
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**Fitting Chart**

### 25.6400-(xx)-(xx) Fitting

<table>
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<th>VPI Part #</th>
<th>ID</th>
<th>OD</th>
<th>Width</th>
<th>AS568A Dash #</th>
<th>Fitting End A</th>
<th>O-Ring</th>
<th>Fitting End B</th>
<th>O-Ring</th>
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<tbody>
<tr>
<td>-04</td>
<td>7/16-20</td>
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# HYDRAULICS, AXLES, & WHEELS

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HYDRAULICS, AXLES, & WHEELS

ILLUSTRATED DRAWING

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ILLUSTRATED DRAWING
Front Hitch Hydraulic Lift

HYDRAULICS, AXLES, & WHEELS
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HYDRAULICS, AXLES, & WHEELS

ILLUSTRATED DRAWING
Auxiliary Hydraulic Quick Couplers
# Auxiliary Hydraulic Quick Couplers

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*When replacing the front motor, the shaft seal MUST be removed.
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Rear Hydraulic Motor Mount & Fittings
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*When replacing the rear motor, the shaft seal MUST NOT be removed.
If either Ref. 1 or Ref. 2 fittings need replacement, Ventrac recommends removing both Ref. 1 and Ref. 2 fittings and replacing both with a Ref. 3 fitting.
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## HYDRAULICS, AXLES, & WHEELS

### Hydraulic Oil Cooler & Fan

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If either Ref. 1 or Ref. 2 fittings need replacement, Ventrac recommends removing both Ref. 1 and Ref. 2 fittings and replacing both with a Ref. 3 fitting.
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*When replacing the front motor, the shaft seal MUST be removed.
When replacing the rear motor, the shaft seal MUST NOT be removed.
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Pump Supply Line & Main Hydraulic Filter
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HYDRAULICS, AXLES, & WHEELS

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Use only original Ventrac replacement parts.
### HYDRAULICS, AXLES, & WHEELS

**Front Transaxle & Wheels**

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**HYDRAULICS, AXLES, & WHEELS**

Model 2600 Transaxle (51.0020/51.0087)

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Listed items are stocked. Check for availability of unlisted parts.

*Ref. 2 brake shaft bearing must be ordered separately.*
ILLUSTRATED DRAWING
Model 15 Hydraulic Motor (21.0081)
### Model 15 Hydraulic Motor (21.0081)

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Listed items are stocked. Check for availability of unlisted parts.
Note: Item 200 includes items 202, 203 and 204

NOTE: Items 76, 24, & 60 are removed in this application.
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ENGINES

ILLUSTRATED DRAWING
4500P Kawasaki Engine
## ENGINES

### 4500P Kawasaki Engine

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## 4500P Kawasaki PTO Clutch

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ILLUSTRATED DRAWING
4500P Kawasaki Muffler

Serial # 03403 - 08787
# ENGINES

## 4500P Kawasaki Muffler

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ENGINES

ILLUSTRATED DRAWING
4500P Kawasaki Air Intake
## 4500P Kawasaki Air Intake

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## 4500P Kawasaki Fuel System

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1 | 99.SF0404-1 | BOLT, SMF 1/4-20 X 1/2 | 2
2 | 99.E0049 | NUT, WASHER #10-32 (STAR NUT) | 1
3 | 00.0332 | DECAL, GASOLINE ONLY | 1
4 | 27.F05-1-26IN | HOSE, FUEL LINE 5/16" LOW PERM X 26" | 1
5 | 47.0314-2 | TANK, ASM 4500 GAS W/ RETURN (Serial # 01001-04349) | 1
6 | 27.F05-1-7IN | HOSE, FUEL LINE 5/16" LOW PERM X 7" | 1
7 | 11.0048 | CLAMP, HOSE BAND 9/16" OD HOSE | 6
8 | 11.0032 | CLAMP, HOSE S/S 7/16-25/32 | 2
9 | 99.K0067 | MACHINE SCREW, #10-32 X 1-1/2 | 2
10 | 99.B0051 | WASHER, FLAT #10 | 2
11 | 99.A1032N | LOCKNUT, NYLON 10-32 STAINLESS | 2
12 | 27.F05-1-7IN | HOSE, FUEL LINE 5/16" LOW PERM X 7" | 1
13 | 27.F03-103IN | HOSE, FUEL LINE X 3/16" X 103" | 1
14 | 27.F04-1-114IN | HOSE, FUEL LINE 1/4" LOW PERM X 114" | 1
15 | 11.0049 | CLAMP, HOSE BAND 1/2" OD HOSE | 2
16 | 11.0038 | CLAMP, HOSES S/S 7/32 - 5/8. | 2
17 | 11.0073 | CLAMP, HOSE BAND 7/16" OD HOSE | 1
18 | N/A | TANK, FUEL 4500 GASOLINE | 1
19 | 05.0134 | GROMMET, TANK FUEL SENDER | 1
20 | 05.0128 | GROMMET, FUEL TANK VENT VALVE | 1
21 | 29.0094 | VENT, FUEL TANK BREATHER | 1
22 | 05.0133 | GROMMET, TANK FITTING | 1
23 | 29.0096 | FITTING, 1/4" TANK RETURN | 1
24 | 29.0097 | FITTING, TANK 5/16 WITHDRAW | 1
25 | 35.0120 | SENDING UNIT, FUEL | 1
26 | 47.0309 | CAP, FUEL 3-1/2" UNVENTED | 1
27 | 29.0100 | VALVE, FUEL VENT | 1
28 | 05.0133 | GROMMET, TANK FITTING | 1
29 | 29.0096 | FITTING, 1/4" TANK RETURN | 1
30 | 29.0097 | FITTING, TANK 5/16 WITHDRAW | 1
31 | 35.0120 | SENDING UNIT, FUEL | 1
32 | 47.0309 | CAP, FUEL 3-1/2" UNVENTED | 1
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Left Seat Box Panels
## Left Seat Box Panels

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Rear Fenders & Battery Compartment

FRAMES / SHEET METAL
# Standard Seat Assembly

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FRAMES / SHEET METAL

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Front Fenders & Foot Pegs
# Front Fenders & Foot Pegs

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**FRAMES / SHEET METAL**
ILLUSTRATED DRAWING
Center Pivot & Connector Link

FRAMES / SHEET METAL
# FRAMES / SHEET METAL

## Center Pivot & Connector Link

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# FRAMES / SHEET METAL

Dash, Dash Brackets, Decals, & Switches

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# CONTROLS & LINKAGE

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### CONTROLS & LINKAGE

#### Neutral Assist Lever & Neutral Switch

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CONTROLS & LINKAGE

ILLUSTRATED DRAWING
Parking Brake Handle, Brake Rod, & Shields
# CONTROLS & LINKAGE

Parking Brake Handle, Brake Rod, & Shields

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CONTROLS & LINKAGE

ILLUSTRATED DRAWING
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**High/Low Range Shift Linkage Controls & Linkage**

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CONTROLS & LINKAGE

ILLUSTRATED DRAWING
PTO Belt Tension Linkage

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CONTROLS & LINKAGE

ILLUSTRATED DRAWING

Weight Transfer
### Controls & Linkage

#### Weight Transfer

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*Weight transfer spring cannot be replaced separately. Order kit # 70.4115 and follow the kit instructions to replace with pre-assembled components.
OPTIONS

ILLUSTRATED DRAWING
3 Point Hitch Frame (Kit #70.4100)
## OPTIONS

### 3 Point Hitch Frame (Kit #70.4100)

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OPTIONS

ILLUSTRATED DRAWING
3 Point Hitch Hydraulic Diagram (Kit #70.4100)

- 2 Spool Valve (Under Seat)
- 3 Spool Valve
- 3-Point Lift Cylinder
- Hydraulic Oil Cooler
- Left Quick Coupler Bracket
- Right Quick Coupler Bracket

Existing Hose From 2 Spool Valve To Oil Cooler

Original Hose Route
### OPTIONS

3 Point Hitch Hydraulic Diagram (Kit #70.4100)

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Hose relocated to 3 spool valve from the hydraulic cooler.
## OPTIONS

### Rear Hydraulic Valve (Kit # 70.4126)

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## OPTIONS

### Rear Hydraulic Valve Diagram (Kit # 70.4126)

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OPTIONS

ILLUSTRATED DRAWING
Dual Wheels

Field Trax Dual Wheel Kit - # 70.4067
Turf Master Dual Wheel Kit - # 70.4068
Bar Tire Dual Wheel Kit - # 70.4069

Original Wheel & Axle - DO NOT Remove Lug Nuts when installing Dual Wheel Hub

Optional Inner Tube
53.0077, 53.0101, & 53.0137
## Dual Wheels

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### 70.4154 Suspension Seat Kit

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## OPTIONS

### 70.0098 Canopy Kit

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## OPTIONS

### 70.4114 Strobe Light Kit

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ILLUSTRATED DRAWING
70.4155 Strobe Light Kit
### OPTIONS

#### 70.4155 Strobe Light Kit

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ILLUSTRATED DRAWING
70.4119 Directional / Hazard Light Kit
## 70.4119 Directional / Hazard Light Kit

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### 70.4156 Directional / Hazard ECE Light Kit

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<td>33</td>
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OPTIONS

ILLUSTRATED DRAWING
70.4098 Wheel Extension Kit
## 70.4098 Wheel Extension Kit

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ILLUSTRATED DRAWING
70.4107 Foot Control Kit
## 70.4107 Foot Control Kit

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## 70.4108 Raised Platform Kit

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ILLUSTRATED DRAWING
70.4101 Backup Alarm Kit
## OPTIONS

### 70.4101 Backup Alarm Kit

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ILLUSTRATED DRAWING
70.4121 Front Hitch Lock Valve Kit
## 70.4121 Front Hitch Lock Valve Kit

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ILLUSTRATED DRAWING
70.4104 12 Volt Front Plug Kit
## OPTIONS

### 70.4104 12 Volt Front Plug Kit

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<td>BOLT, SMF 1/4-20 X 1/2</td>
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ILLUSTRATED DRAWING
70.4105 12 Volt Rear Plug Kit
# OPTIONS

## 70.4105 12 Volt Rear Plug Kit

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## OPTIONS

### 70.4106 PTO Remote Kit

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### OPTIONS

#### 70.4120 Horn Kit

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OPTIONS

ILLUSTRATED DRAWING
70.4135 Slope Indicator Kit
## OPTIONS

### 70.4135 Slope Indicator Kit

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OPTIONS

ILLUSTRATED DRAWING
70.4109 Dual Front Hydraulic Auxiliary Kit
## OPTIONS

### 70.4109 Dual Front Hydraulic Auxiliary Kit

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## OPTIONS

**Dual Front Hydraulic Auxiliary Diagram**

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OPTIONS

ILLUSTRATED DRAWING
70.4140 Slope Indicator Kit
### OPTIONS

#### 70.4140 Slope Indicator Kit

<table>
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<tr>
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<th>PART NO.</th>
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<tr>
<td>1</td>
<td>30.0332</td>
<td>Fuse, 5 Amp Mini Tan</td>
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<td>Plug, 5/16&quot; Hole, Nylon Black</td>
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<td>Tyton Tie, #50 .18 X 8 Black</td>
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<td>Gauge, Slope Indicator</td>
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<td>Harness, Wire Slope Indicator</td>
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## OPTIONS

**39.56114 3N1 Hitch**

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<td>PIN, SECURE WEIGHTS 5/8 X 24&quot;L.</td>
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<td>99.A05</td>
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<td>90.0526</td>
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<td>BOLT, 5/16-18 USS X 3</td>
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<td>DECAL, V-DECAL DIE CUT BLUE</td>
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# OPTIONS

**39.56116 Rear Counterweight Bar**

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OPTIONS

ILLUSTRATED DRAWING
70.4137 Mid Weight Bar 4500 Kit
### OPTIONS

**70.4137 Mid Weight Bar 4500 Kit**

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OPTIONS

ILLUSTRATED DRAWING
70.4144 Rear Weight Bar Kit
## 70.4144 Rear Weight Bar Kit

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OPTIONS

ILLUSTRATED DRAWING
70.4133 LED Work Light Kit
## OPTIONS

### 70.4133 LED Work Light Kit

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<td>CLIP, MP280 CONNECTOR 2 POS</td>
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<td>16</td>
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### OPTIONS

#### 70.2016 Trailer Mover Hitch

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