Read instructions and view illustrations before beginning.

Need help with your installation?

sales@superatv.com  www.superatv.com
1-812-574-7777

8:00am - 9:00pm EST M-Th
8:00am - 7:00pm EST Friday
9:00am - 2:00pm EST Saturday

Item Description
B ECU Bracket
F Lower Shaft
G Upper Shaft
H Mounting Bracket
M Wiring Connectors Kit

Thank You For Choosing

Power Steering Kit:
for Suzuki KingQuad

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**Connections**

- Before installing, ensure that all Gaskets in electrical connections are properly seated.
- If Gaskets are not seated use a Flathead Screwdriver to seat.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>J</td>
<td>ECU</td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>Wiring Harness</td>
<td></td>
</tr>
</tbody>
</table>
Power Steering will provide multiple improvements to your machine. After installation, it is highly recommend to take time and learn your machines new handling characteristics and feel.

Key Recommendations:
1. Power Steering Benefits will be noticed as soon as machine is moving.
2. Handlebar will have more noticeable deflection while at rest. As a result of speed sensitive operation, this is normal.
3. Check steering sensitivity at multiple speeds to best understand new handling characteristics and feel.
4. Without Throttle input, turning Handlebar back and forth unnecessarily is not recommended. This action is very hard on remaining stock steering components, Tie Rod Ends, and Power Steering unit.

Like all SuperATV products, Power Steering kits were designed with riders in mind.

For reference, photographing of removal process is highly recommended due to amount of components being removed from machine.

**Removal:** Keep all components removed from machine.
1. Raise front of machine, secure with jack stands and remove Wheels. *Removing Front Left Shock may help.*
2. Remove Seat and Side Panels. See Fig. 1.
3. Remove Handlebar Cover and Speedometer. See Fig. 2.
4. Remove Carrier and Fender. See Fig. 3.
5. Remove Steering Shaft Holder (including Dust Shields), and Hose Guide from Frame. See Fig. 4.
6. Remove Tie Rods from Steering Shaft. See Figs. 5 - 5a.
7. Remove Cotter Pin, Nut, and Nut from Steering Shaft. See Figs. 5 - 5a.
8. Unbolt Handlebar and lay out of way.
9. Remove Steering Shaft. See Fig. 6.

*removal illustrations on following page*
Remove Side Covers (Right and Left)

Remove Seat

Fig. 1

Remove Handle Cover and Speedometer

Fig. 2

Remove Carrier

Remove Fender

Fig. 3

Remove (Front)

Fig. 4

Remove (Left Side)

Fig. 5

Remove (Left Side)

Fig. 5a

Remove Pin, Nut, and Washer

Steering Shaft

Front

Fig. 6

Remove Steering Shaft

Front

(Left Side)
**Installation:** Do not tighten hardware unless noted.

1. Install Lower Shaft (F) to stock location. Secure with stock hardware. See Figs. 1 - 1b.
2. Reinstall Tie Rods with stock hardware. See Fig. 1b.
3. Install Mounting Bracket (H) to Motor (K) with M8-1.25 x 20mm Lg. FHCS. See Fig. 3.
   - Locate (2) holes in Frame; secure Mounting Bracket (H) with M8-1.25 x 25mm Lg. HHCS, M8 Flat Washers, and M8-1.25 Nylock Nuts. See Fig. 3.
4. From top of machine, install Upper Shaft (G) to Motor (K) and secure with provided hardware. See Fig. 4.
   - Install Upper Shaft (G), stock Steering Shaft Holder (including Dust Shields), and Hose Guide to Frame with stock hardware. See Fig. 4a.
5. Use stock hardware to reinstall Handlebar to Upper Shaft (G). See Fig. 5.
6. Install ECU Bracket (B) to Frame with M6-1.0 x 20mm Lg. HHCS, M6 Flat Washers, and M6-1.0 Nylock Nut. See Fig. 6.
7. Install ECU (J) to ECU Bracket (B) with M6-1.0 x 16mm Lg. HHCS. See Fig. 6. Plug in Wire Harness (L) but do not wire.
9. Tighten all hardware completely.
10. Reverse steps taken during “Removal” and reinstall necessary components.

Handlebar should be inline with Tie Rods before tightening hardware. Lift Handlebar up and off of Motor (K) and realign if not.
Motor Shafts Detail

To Upper Shaft

To Lower Shaft

Fig. 2

(Right Side)

3x M8 x 20mm

Front

(Left Side)

provided hardware
Mounting Bracket (H), Fig. 3

2x M8 x 25mm
2x M8 Washer
2x M8 Nut
**PARTS REFERENCE**

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>B</td>
<td>ECU Bracket</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Lower Shaft</td>
<td>1</td>
</tr>
<tr>
<td>G</td>
<td>Upper Shaft</td>
<td>1</td>
</tr>
<tr>
<td>H</td>
<td>Mounting Bracket</td>
<td>1</td>
</tr>
<tr>
<td>M</td>
<td>Wiring Connectors Kit</td>
<td>1</td>
</tr>
</tbody>
</table>

*Fig. 4a (Left Side)*

- Apply grease when reinstalling

*Fig. 5 (Left Side)*

- Stock Components

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Left Side
Control Module Mounting, Fig. 6

Mounting Location

- **B**: M6 x 16mm x 2
- **J**: M6 x 20mm x 2
- **M6 Nut**: 2x
- **M6 Washer**: 2x

Front (Left Side)
### Wiring Details

#### Plug Function

<table>
<thead>
<tr>
<th>Plug</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Torque Sensor</td>
</tr>
<tr>
<td>B</td>
<td>Switched 12V Source</td>
</tr>
<tr>
<td>C</td>
<td>Power</td>
</tr>
<tr>
<td>D</td>
<td>Motor</td>
</tr>
</tbody>
</table>

When activated, Diagnostic Light will flash (1) time for about (1) second before turning off indicating proper function. Should different patterns occur, contact SuperATV.

**Secure Diagnostic Light in a visible location.**

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**Switched 12V Source Connection Details**

1. Locate Orange Wire from Wire Harness shown in Fig. A.
2. Connect White Wire from Wire Harness (L) to Orange Wire. Scotch Lock, Bullet Connector, or solder. See Fig. B.

Soldering connection is recommended however, installer may use other forms of connecting.
Wiring Details, continued

Battery Connections

Route Wire Harness (L) along Frame and secure with Wire Ties (not included)

Front
(Right)

Black - To Negative (-)
Red - To Positive (+)