

# Skully Customs – Fast Up Upgrade Instructions

Website: [www.skullycustoms.com](http://www.skullycustoms.com)

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## Overview

If you already have a Skully Standard Air Ride System, these are the additional instructions to upgrade your setup with the **Fast Up Kit**.

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## Parts Included in Your Upgrade Kit

- High Pressure Pump
  - Pressure Switch
  - Relay
  - Up Valve with 2 air fittings:
    - #1 = Air Inlet
    - #2 = Air Outlet)
  - Dump Valve (very small writing on the back)
  - Air Line
  - Tank
  - Year-Specific Tank Mount
  - Brass T and Small T (for tank and pump connection)
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# Installation Instructions

## 1. Preparation

1. Lift the motorcycle so the rear tire is  $\frac{1}{4}$  inch off the ground.
2. Remove saddle bags, side covers, and seat.

## 2. Pump Installation

3. Remove the old pump — it must be replaced. (Old pump may not reach the pressure required to trigger the new pressure switch.)
4. Install the new pump in the same location as the old one.

## 3. Tank Installation by Year

### 1997–2008 & 2014–2025 Models:

5. Mount the tank on the **left saddlebag support**.
  - If there's an antenna mount, remove the quarter-sized tab to avoid contact with the tank.
  - Reinstall the mount or zip-tie unused antenna wires to nearby wiring.

### 2009–2013 Models:

6. If the pump is mounted behind the right side cover, install the new pump in the same location and mount the tank behind the **right saddlebag**.
7. Saddlebag rail types:
  - **Chrome rail**: Use a figure-8 style tank mount.
  - **Black rail**: Use a mount that attaches via a small tab with one hole.

### Alternative Mounting Location:

8. If the tank cannot be mounted behind the saddlebag, it can be mounted under the tank area on the **firewall** using a stainless hose clamp.
    - Use the slot in the firewall for the clamp.
    - Ensure fittings and air line are clear of the exhaust and other heat sources.
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## 4. Wiring & Pneumatics

9. Locate and follow the provided **wiring and pneumatic diagrams** closely.

### Electrical Connections

10. Connect the **red fuse holder wire** to the 12V positive battery terminal.
11. Connect that same red wire to the **relay**, and then to the **blue wire** on your switch (handlebar or toggle, depending on your setup).
12. Mount the **relay** and the new **up valve** in the right side cover.

### Relay Wiring Configuration

- **Red** → Fuse holder
  - **Black** → 12V Negative terminal
  - **White** → Pressure switch terminal
  - **Blue** → Red wire on pump
13. Mount the up valve near the **dump valve** already installed on your bike.
  14. Connect:
    - One black wire → 12V Negative terminal
    - Other black wire →
      - **Orange** wire (handlebar switch) **or**
      - **Red** wire (toggle switch)
  15. Dump valve wiring remains the same as before:
    - One black wire → 12V Negative
    - Other wire → Red (handlebar) or Black (toggle)

### Up Valve Setup

16. Install the brass fitting into the #1 port of the up valve.
  - Attach the pressure switch to the top of this brass fitting.
  - Screw a small fitting into the end of the brass fitting and connect it to a small T-fitting that links to both the **tank** and **pump**.
17. Connect the **yellow wire** from the pressure switch to a **12V accessory (ACC)** wire that has power when the ignition is on.
  - Possible sources: running light, plug near the base of the fuel tank, or the accessory plug in the right side cover.
  - **Important:** Use a 12V test light to confirm before connecting.
18. The #2 port of the up valve should already be plumbed to a small T-fitting that leads to your **shocks** and the **dump valve**.
19. **Double-check** all wiring and hose routing with the included diagrams.

## 5. Fuse Installation

20. Place the **25 amp fuse** in the fuse holder.
    - If your bike currently uses a **20 amp yellow fuse**, replace it with the 25 amp fuse for compatibility with the new pump.
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## Fitment Notes

21. Custom accessories like trailer hitches, fender filler lights, CVO plugs, and LED lights may affect installation.
    - Work slowly and carefully.
    - If needed, contact Skully Customs for placement support.
    - As a last resort, the tank can be installed inside a **saddlebag or tour pack** (though other options are usually available).
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## Maintenance Requirements

- **Monthly:**
  - Check that the pump and tank are secure.
    - These components are close to rotating and moving parts — loose fittings can cause serious problems.
    - Apply **Loctite** to all nuts and bolts.
- **Annually or with Fluid Maintenance:**
  - Clean both the **up valve** and **dump valve**.
  - Use **Windex and a Q-tip**.

## Valve Cleaning Procedure

1. Remove the black dial on top of the valve.
2. Slide off the black magnet (with wires attached).
3. Loosen the brass stem with a **13 mm wrench** — let air escape slowly. Fully remove the stem, then take out the **poppet valve and spring**.
4. Clean each part and the inside of the stem with Windex.
5. Blow out any debris and reassemble the components.