

INSTALLATION INSTRUCTIONS

PS-P-SPTXP-380W: Power Steering Kit

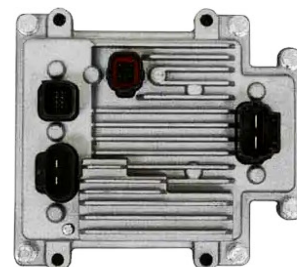
- ⓘ Please look through and read these instructions BEFORE starting so you understand what processes you'll be doing, and possible extra tools you may need.
- ⓘ Do Not discard product packaging until installation is complete and functioning properly.



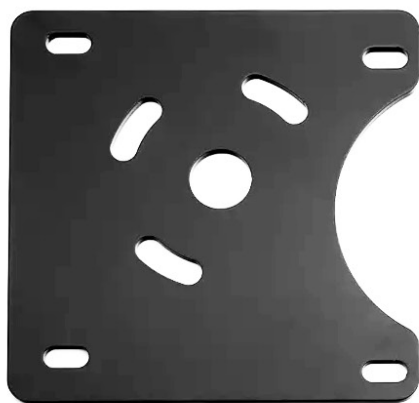
380W Motor



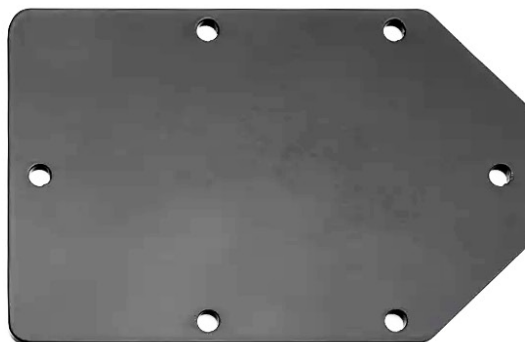
Harness Cables



ECU



Mounting Bracket



Control Mount Bracket



Lower Steering Shaft Assembly



Control Module Pinch Plate



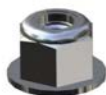
Upper Steering Shaft Assembly



**M10x20
Hex Flange
(4pcs)**



**M8x20
Hex Flange
(8pcs)**



**M8
Nylock Nut
(4pcs)**



**M8x25
Hex Flange
(4pcs)**



Wire Terminal Kit

1.The first thing you need to do is **remove** the **Wheel Well Covers** on both **Driver's** and **Passenger's Sides**. **Fig.1a-b** show the **Passenger's Side**, and **Fig.c-d** the **Driver's Side**.



Fig.1a



Fig.1b



Fig.1c



Fig.1d

2.Next you need to pull the **Hood** cover forward and remove it to gain access for your installation. Remove it by removing the **Torx Screws** holding the tie cables to the vehicle. See **Fig.2a-b**.



Fig.2a



Fig.2b

3. Then, raise the **Retaining Pins** and slide them over to remove them releasing the **Hood** as shown in **Fig.3a-b**.



Fig.3a

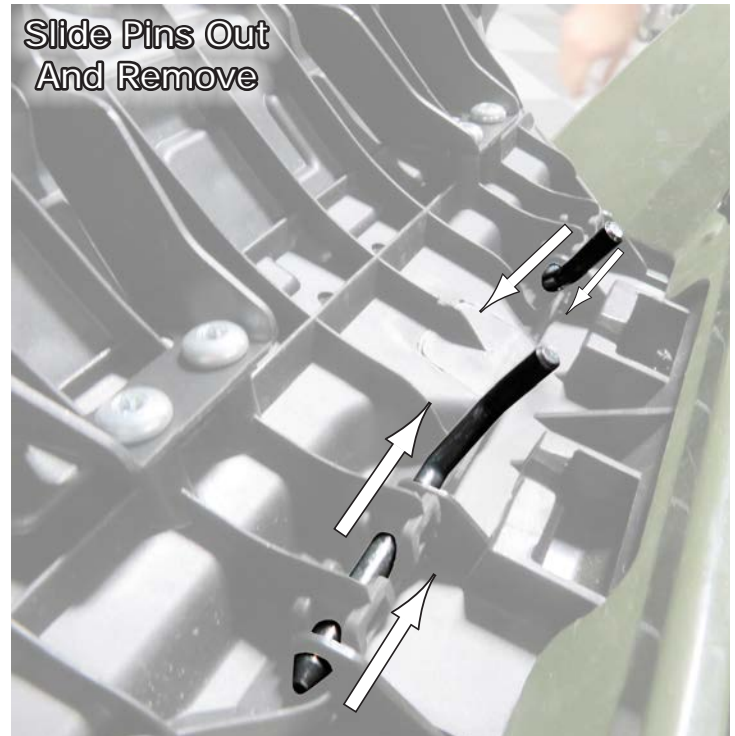


Fig.3b



4. Now remove the **Hood** from the vehicle as shown in **Fig.4a**. **Fig.4b** shows it removed and the next item you will need to remove. See **Fig.4a-b**.



Fig.4a

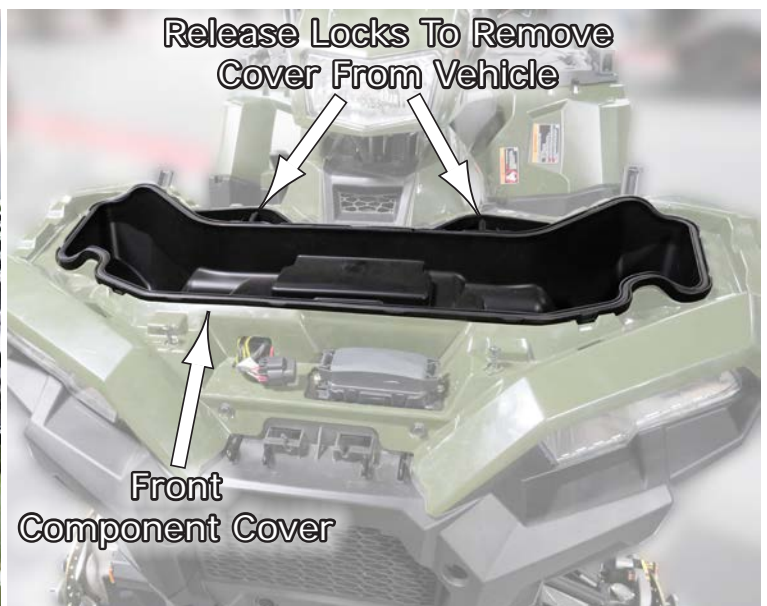


Fig.4b

5. Now you can remove the **Front Components Cover** by releasing the **Locks** that fix it to the machine. There is one on each side, Left & Right, as shown in **Fig.5a**. **Fig.5b** shows the **Cover** removed exposing the components underneath it. See **Fig.5a-b**.



Fig.5a



Fig.5b

6. Next, remove the **Seat** as shown in **Fig.6a**, and set aside. Then remove the two (2) **Push-Pins** on the “**Tank Cover**” as well as loosen the **Center Screw** shown in **Fig.6b**.



Fig.6a



Fig.6b

7. Then remove the “**Tank Cover**” as shown in **Fig.7a** and set aside. **Fig.7b** shows all removed.



Fig.7a



Fig.7b

8. Now you need to remove the **Front Column Cover** by releasing the **Push-Pin** at the top and removing the **Two (2) Screws**, one on each side, as shown in **Fig.8a**. Then remove it and set aside. See **Fig.8a-b**.



Fig.8a

Fig.8b

9. The next thing is to **Remove the Side Panels**. To do this, start by releasing the **Push-Pins** located under the seat on top and then pulling off the **Panel** as shown in **Fig.9a-c**. Repeat for opposite side.

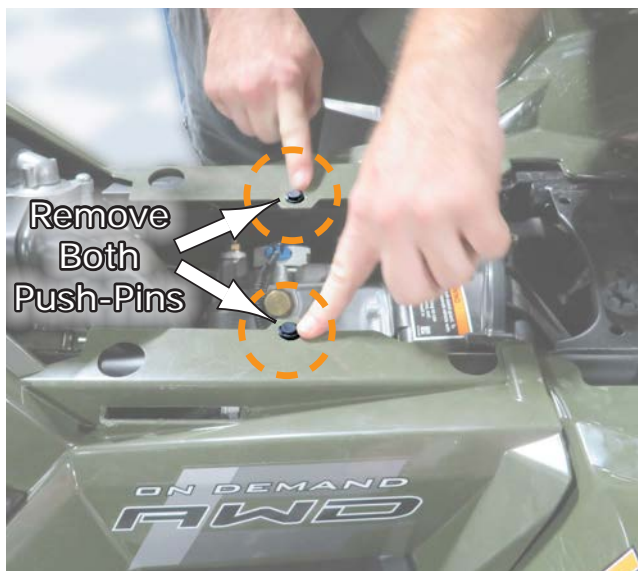


Fig.9a

Fig.9b

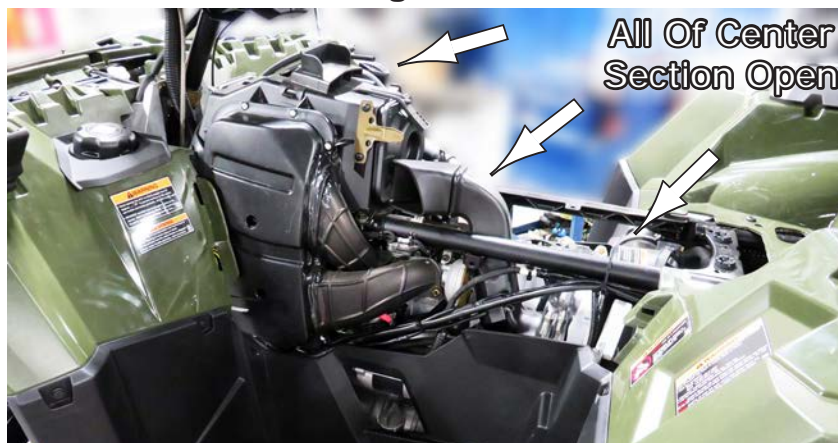


Fig.9c

10. Now you need to remove the **Display Panel Cover** by first removing the screws on the side, one each side, as shown in **Fig.10a**. Then remove the **Two (2) Screws** on the **Display Side** as shown in **Fig.10a-b**.



Fig.10a



Fig.10b



11. After the screws are removed, then pull the **Front Cover** off and set aside. See **Fig.11a-b**.

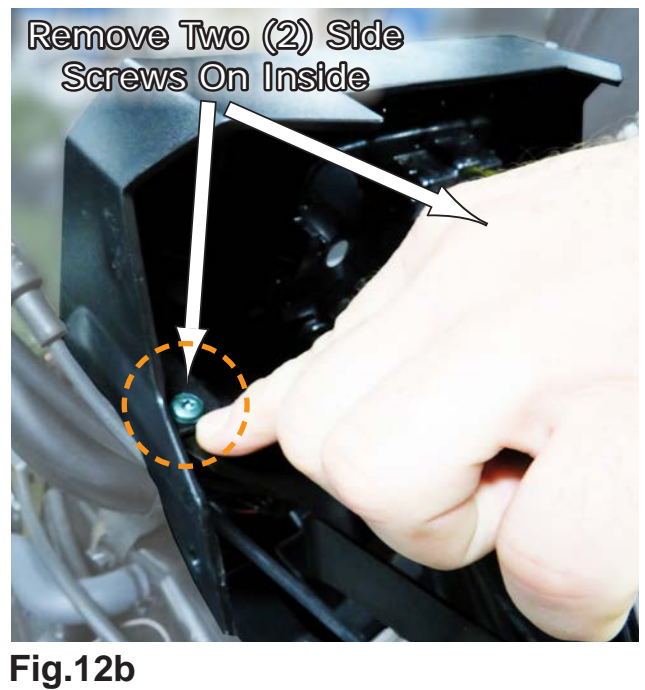


Fig.11a



Fig.11b

12.Next, you will remove the **Display Unit** for the machine by first unscrewing the **Center Screw** as shown in **Fig.12a**. Then remove the **Two (2) Screws** on the **Inside** of the **Display** as shown in **Fig.12b**, one on each side.



13.Then pull the **Display Face** forward and disconnect the **Display Connector** as shown in **Fig.13a-b**.



14.Next, unplug the connector from the **Display** and **Remove the Display** as shown in **Fig.14a-b**.



Fig.14a

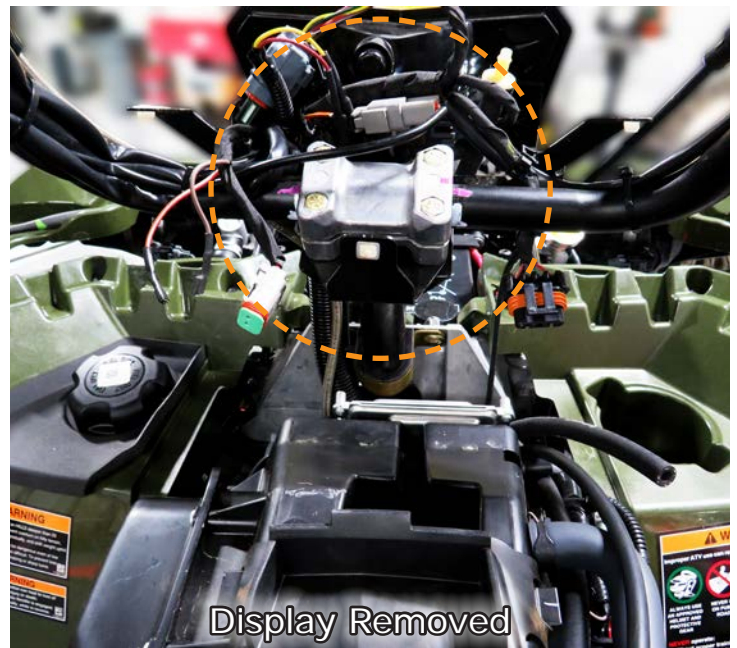


Fig.14b

15.Now remove the screws on the side of the **Head Light** shown in **Fig.15a**. Then remove the **Rubber Bungie Bands** from each side of the light as shown in **Fig15b-c**.



Fig.15a

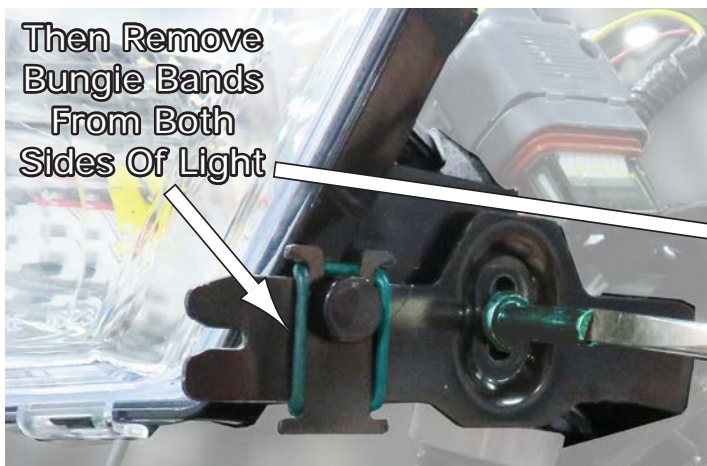


Fig.15b

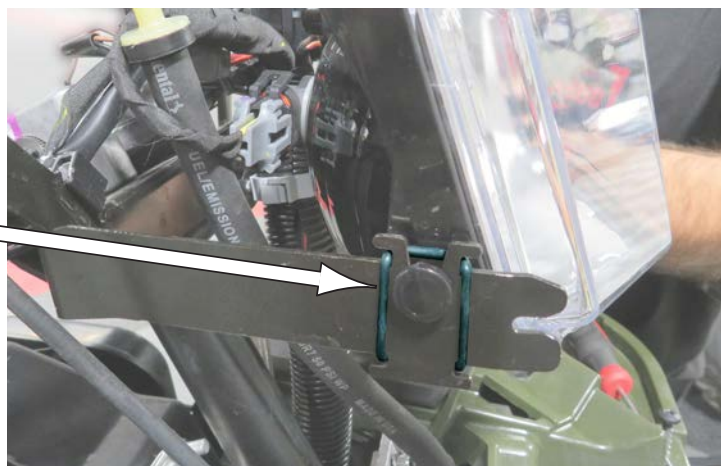


Fig.15c

16. After **Screw** and **Bungie Bands** have been removed, now remove the **Light Bulb Connector** from the back of the light as shown in **Fig.16a-b**. **Fig.16c** shows entire assembly removed.



Fig.16a



Fig.16b



Fig.16c

17. Once the light assembly is removed, now you will need to remove the **Front Top Body Panel** as shown in **Fig.17a**. To do this, remove the two (2) Push-Pins at the top of the **Footwell** on both sides of vehicle. See **Fig.17b**.



Fig.17a

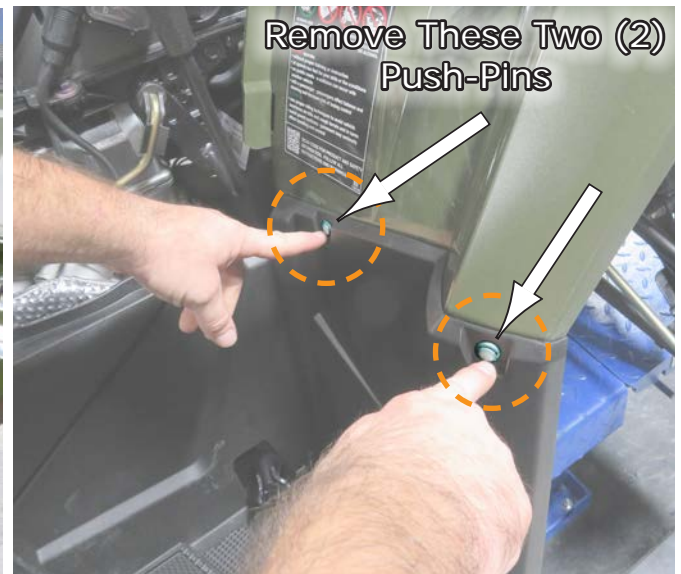


Fig.17b

18. Then remove the two (2) screws in this location, both sides. See **Fig.18a**. Then remove one (1) Torx screw each side as shown in **Fig.18b**.

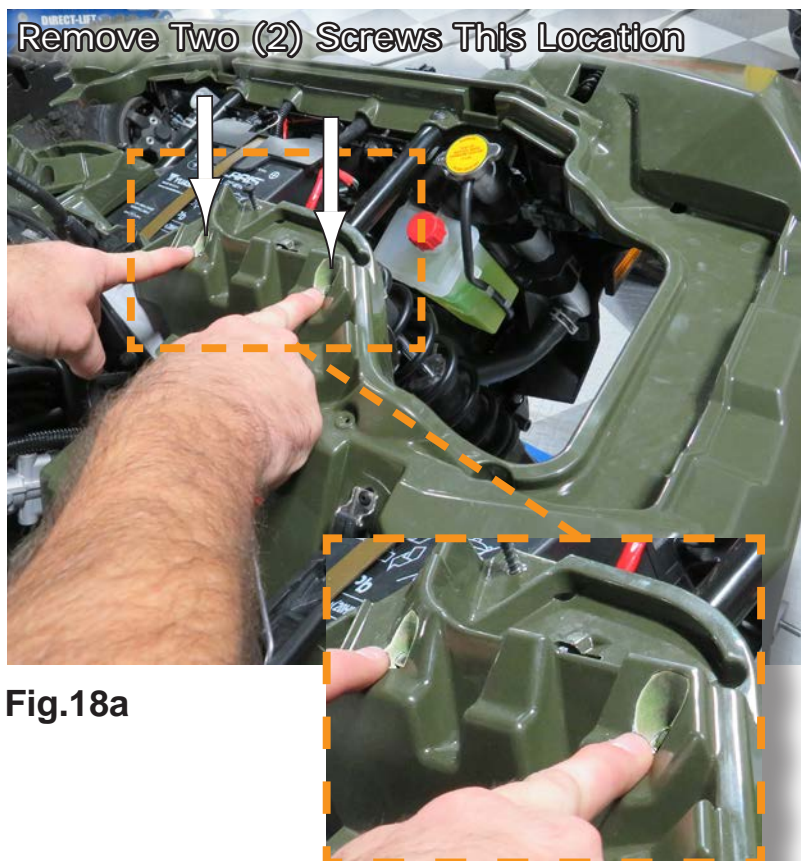


Fig.18a



Fig.18b

19. Remove the screw up under the front fender right by the headlight as shown in **Fig.19a**. Repeat for both sides of vehicle. Then remove the two (2) screws above the grill in the front of the vehicle as shown in **Fig.19b**.



Fig.19a

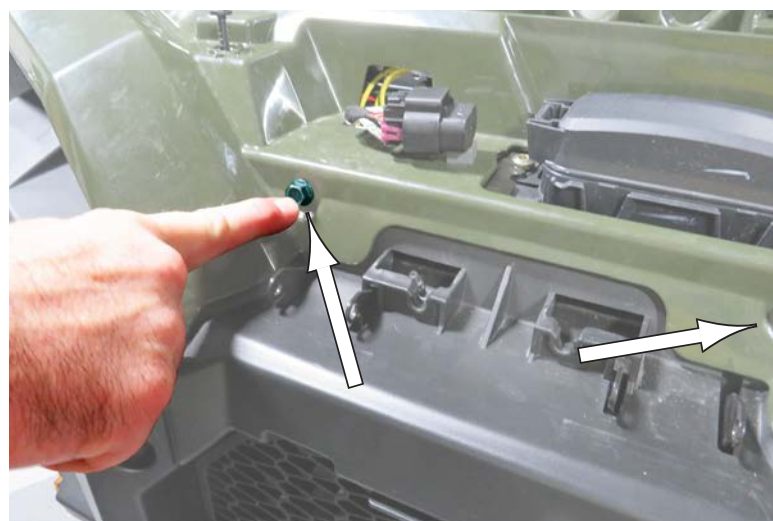


Fig.19b

20. Now remove the **Large Connector Plug** from the front of the vehicle above the grill, as shown in **Fig.20a**, by prying up with a screwdriver. **Fig.20b** shows the connector removed.



Fig.20a



Fig.20b

21. On the side underneath the **Fuel Tank**, you will need to loosen the **Band Clamp** at the Top of the hose as shown in **Fig.21a**. Then you will be able to **lift up** and remove the **Body Panel** free as shown in **Fig.21b**. **Fig.21c** shows the Panel removed.



Fig.21a



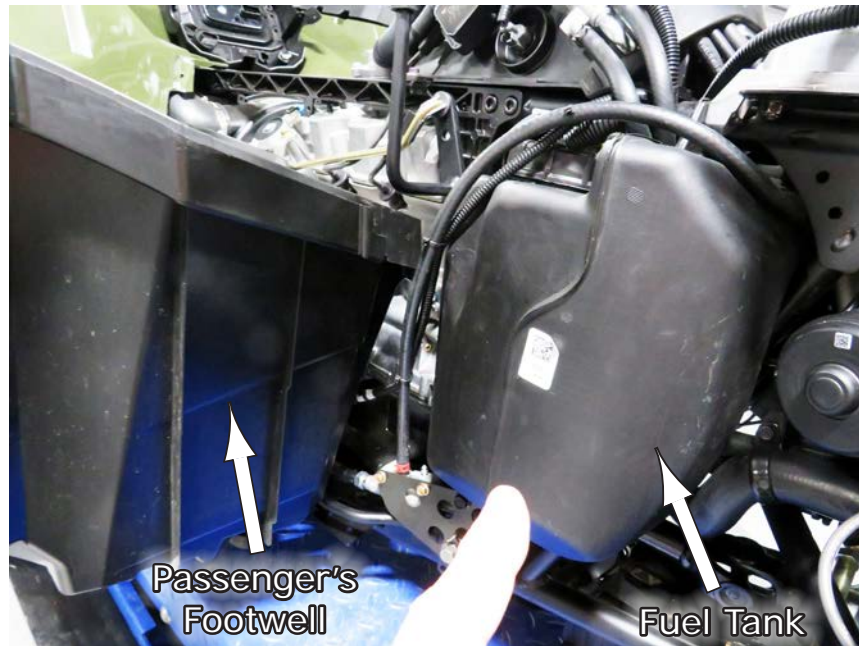
Fig.21b



Fig.21c



NOTE: At this point, if you are upgrading from an **Existing Factory Power Steering Unit** to the **SATV Power Steering Unit**, then you will also need to remove the **Fuel Tank** as well as the **Passenger's Side Footwell** as shown below. This is because the Factory unit sits in a different direction and must be installed **as well as removed** utilizing this necessary space created. If **NO** existing Factory unit is installed, you **DO NOT** have to remove these two (2) items. Continue with the instructions.



22.Next, you will need to remove the battery tie-down **Strap Nuts** to remove the battery as shown in **Fig.22a**. Then remove the battery terminals and remove the battery and set aside.

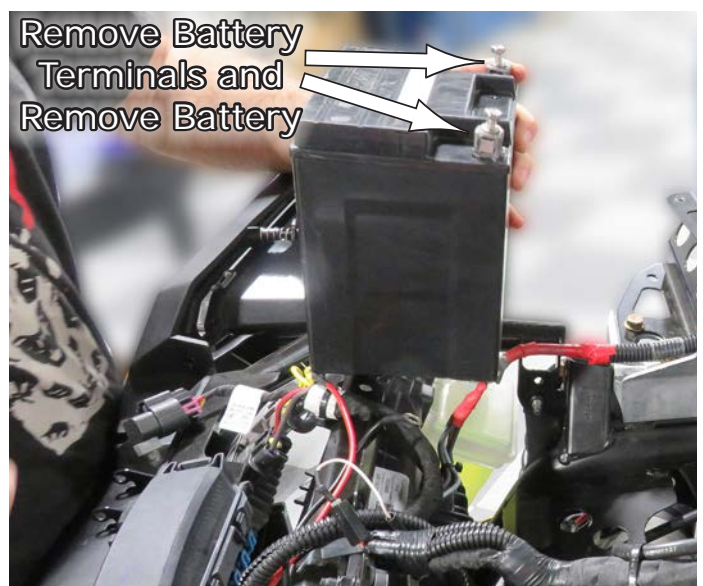


Fig.22a

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Fig.22b

23. Now you need to remove the **Front Shocks** from both left and right sides to gain clearance for your installation. First remove the **Bottom Shock Bolt** and **Nut** as shown in **Fig.23a**. Then remove the **Top Shock Bolt** as shown in **Fig.23b**. Then remove the shock as shown in **Fig.23c**. Repeat the same for the opposite side.

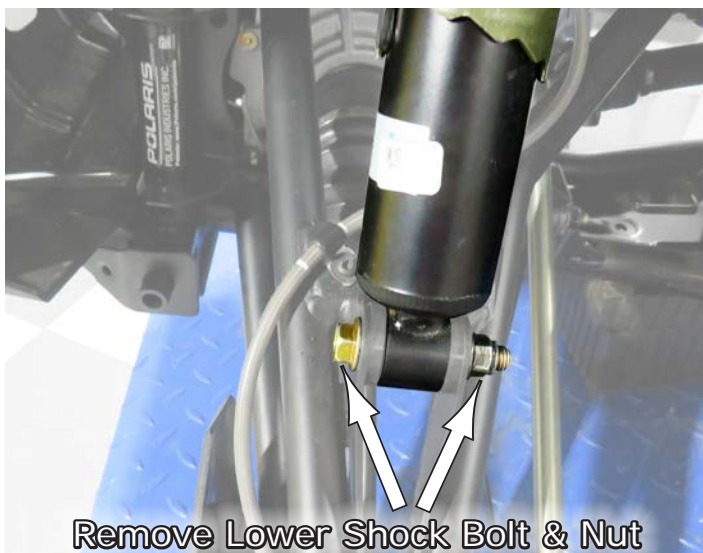


Fig.23a



Fig.23b



Fig.23c



24.Now you can start to take apart the **Factory Steering Column Assembly**. First, loosen up the two (2) Bolts on each side of the lower part of the steering column brackets as shown in **Fig.24a-b**.

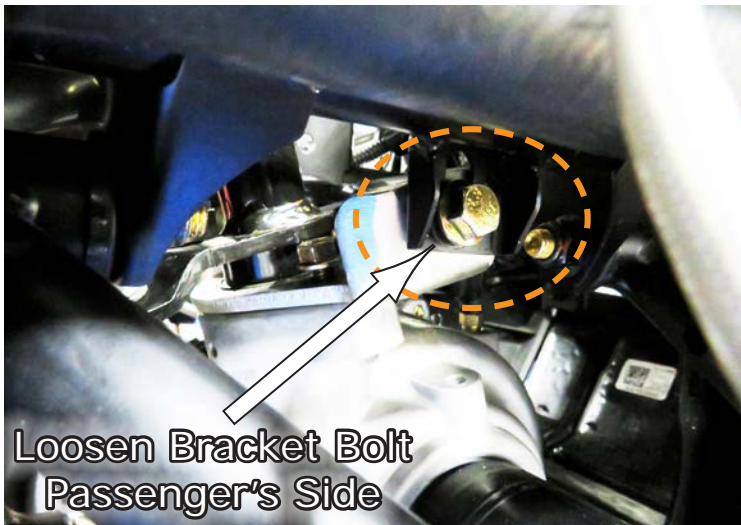


Fig.24a

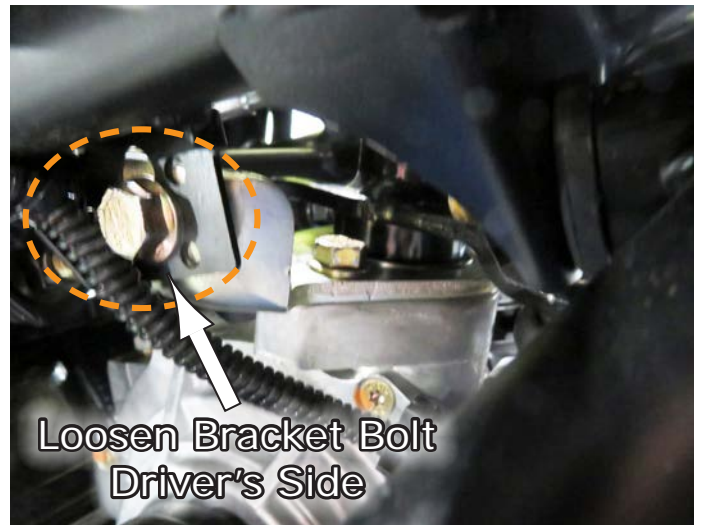


Fig.24b



25.Next, remove the **Bungee Strap** that goes around the **Factory ECU** as shown in **Fig.25a-b**.



Fig.25a



Fig.25b

26.Next, unfasten the **Hose Clamp** in front as shown in **Fig.26a-b**.



Fig.26a

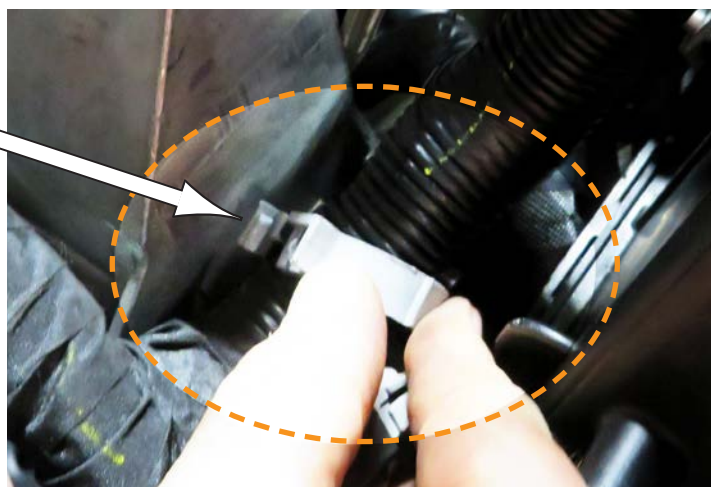


Fig.26b

27.Now you will need to remove the **Factory Steering Column**. To do this, first remove the **Upper Two (2) Bolts** from the retaining collar as shown in **Fig.27a-b**. Pull collar up to dissassemble next.

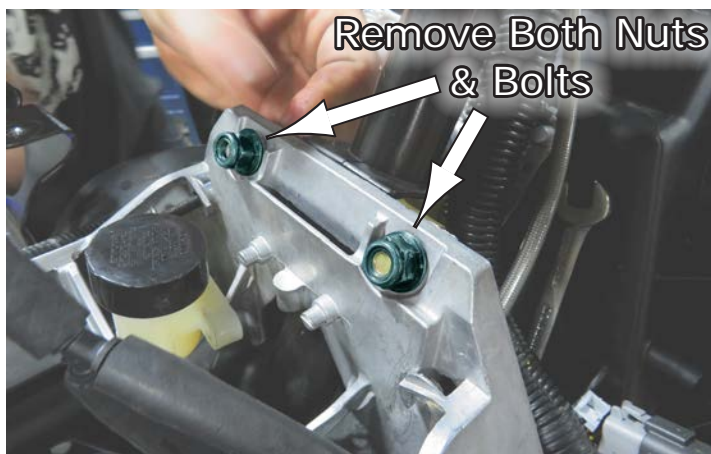


Fig.27a



Fig.27b

28.Now remove the **Metal Bracket** and separate the **Rubber Grip** and set aside. See **Fig.28a-b**.



Fig.28a



Fig.28b

29.Next you will need to remove the **Center Aluminum Mounting Bracket**, by removing all the bolts attaching it to the vehicle in the coming steps. See **Fig.29a**. So the first thing is to remove the **Ground Wire Terminals** connected to it as shown in **Fig.29b-d**. We replaced the Nut back onto the stud to keep from losing. See **Fig.29d**.



Fig.29a



Fig.29b



Fig.29c



Fig.29d



30. Then, you need to remove the **Brake Fluid Reservoir** by removing the bolt shown in **Fig.30a**, and then removing the **Reservoir** shown in **Fig.30b**.



Fig.30a



Fig.30b

31. Now, remove the bolts that attach the **Silver Bracket** onto the vehicle. **Fig.31a-c** show some of the locations the bolts could be at. Be sure to look down low for bolts on the lower extremities of the bracket as shown in **Fig.31b-c**. Then **remove the Silver Bracket** and set aside for now.



Fig.31a

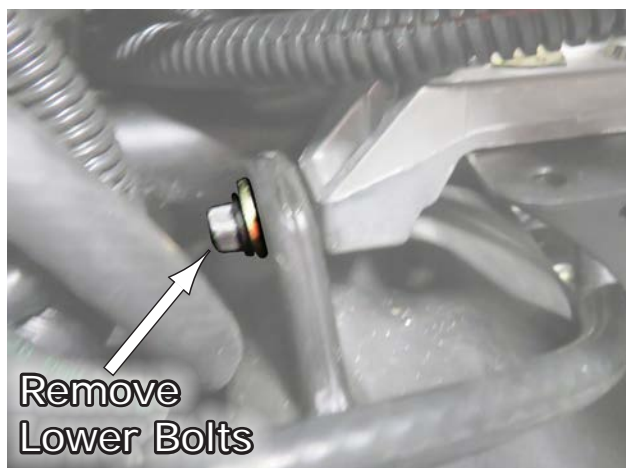


Fig.31b

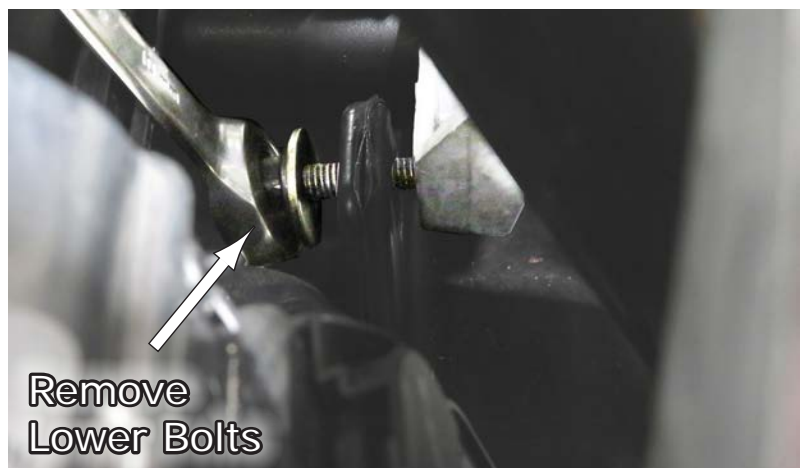


Fig.31c

32.Next you can **disconnect** the **Tie Rods** from the machine. To do this, remove the **Cotter Pin** from the **Tie Rod Threaded Post** and remove the **Nut**. Repeat for both Tie Rods. See **Fig.32a-b**.



Fig.32a



Fig.32b

33.After the tie rods have been disconnected, you now need to remove the **Factory Steering Shaft** from the machine. Start this by removing the bolts from the brackets that hold it onto the machine. This is at the bottom of the shaft right above the tie rods. **Fig.33a-e** shows the bolts and nuts to remove, viewing each side of the bracket. Repeat for both sides of bracket.



Fig.33a

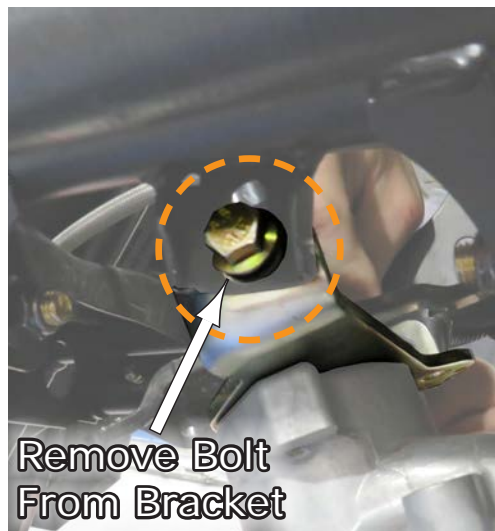


Fig.33b



Fig.33c

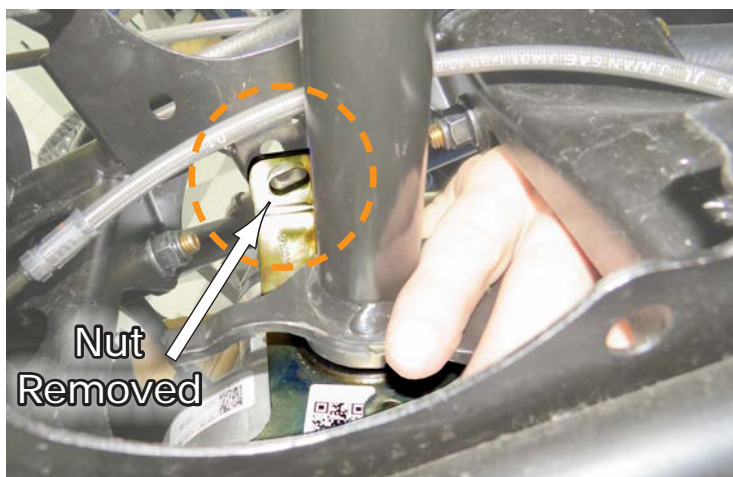


Fig.33d

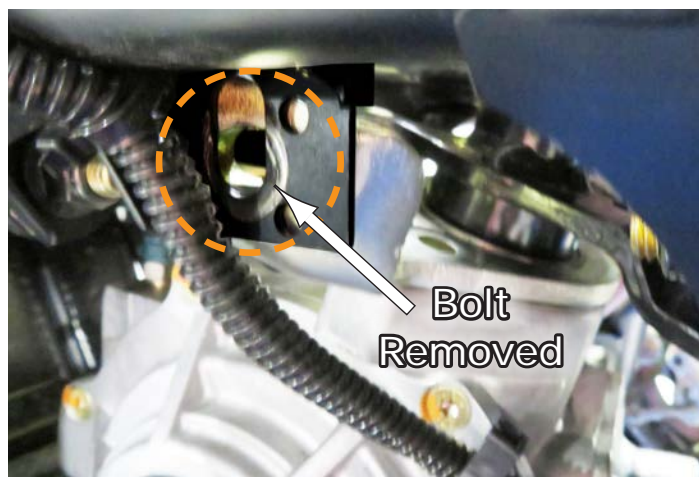


Fig.33e

34. Once the bolts are removed, then remove the shaft by sliding it up and out as shown in Fig.34a-c, and set aside.



Fig.34b



Fig.34a



Fig.34c

35. Now you can start to install the parts to the new kit. So find the **Lower Steering Shaft Assembly** in your kit. It looks like the one in Fig.35a. It may have come in your kit already assembled as shown in Fig.35a, but in case it was not, Fig.35b shows how the parts assemble together to make the complete assembly should you have to put any of it together yourself. See Fig.35a-b.



Fig.35a

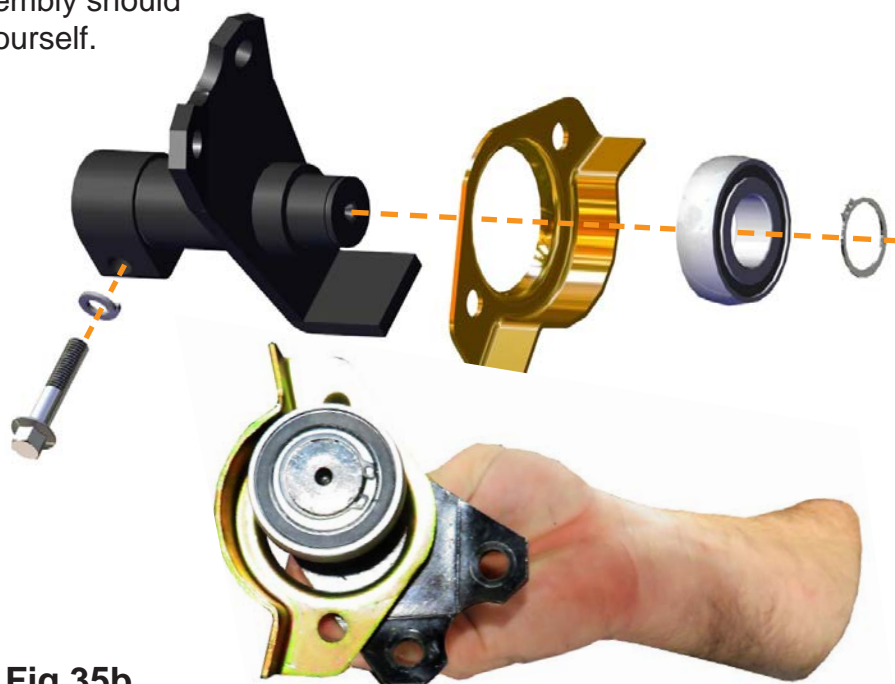


Fig.35b

36. Once you have located the **Lower Shaft Assembly**, you can now install it onto the vehicle as shown in **Fig.36a-c** using the **Two (2) Bolts** removed from **Fig.33c**, and tighten secure. See **Fig.36a-c**.



Fig.36a



Fig.36b



Fig.36c

37. After the new **Steering Shaft Assembly** is installed, you can now reinstall the **Tie Rods** onto the **Steering Shaft Bracket** as shown in **Fig.37a-c** using your factory nuts. Be sure to use a new cotter pin for the Tie Rods when reinstalling.

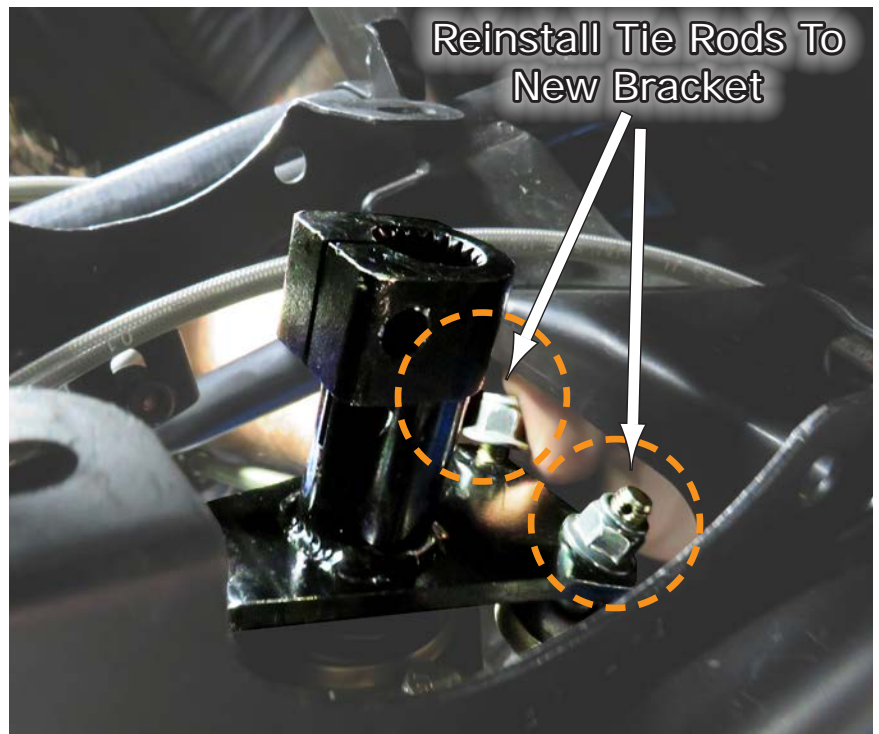


Fig.37a



Fig.37b



Fig.37c



38.Next, you need to locate the **Mounting Bracket** from your kit. This is what you will mount the **Power Steering Motor** to. **Fig.38a** shows the view from the **Passenger's Side** of the vehicle holding the **Mounting Bracket**. *"Notice the position of the Bracket, Holes and Slots"* as you will need to install it into your vehicle in the same position facing the same way as we show you here.

For easier installation, you will need to First only install the **Rear Passenger's Side Screw** as shown in **Fig.38a-b**, and leave slightly loose as you will be using this as a pivot point to rotate the motor on the bracket during the install. Install using the M8 bolts and Nylock Nuts in your kit. *(Your bolts may be Torx Head as shown in Fig.38b or may be M8 Hex Head depending on kit)*



Fig.38a



Fig.38b

39. Now find the **Steering Motor**. You will install it from the Passenger's side in the position shown in **Fig.39a-b**. When inserting it into position, pivot the **Mounting Bracket** to align the center hole in the bracket with the **Spline** on the bottom of the motor, then align the holes in the **Mounting Bracket** to the frame holes of the vehicle. The **Spline** should then slide into the **Lower Steering Shaft Assembly**. Then install the rest of the bolts securing the **Mounting Bracket** to the vehicle.



Fig.39a



Fig.39b



Fig.39c

40. Then make sure the spline of the motor is seated down into the spline of the **Lower Steering Shaft Assembly** as you will need to install the bolts that hold the **Motor** to the **Mounting Bracket**. **Fig.40a** shows the location of the holes to align the motor holes to. And **Fig.40b** shows these bolts being installed. Install using the hardware provided in your kit.



Fig.40a

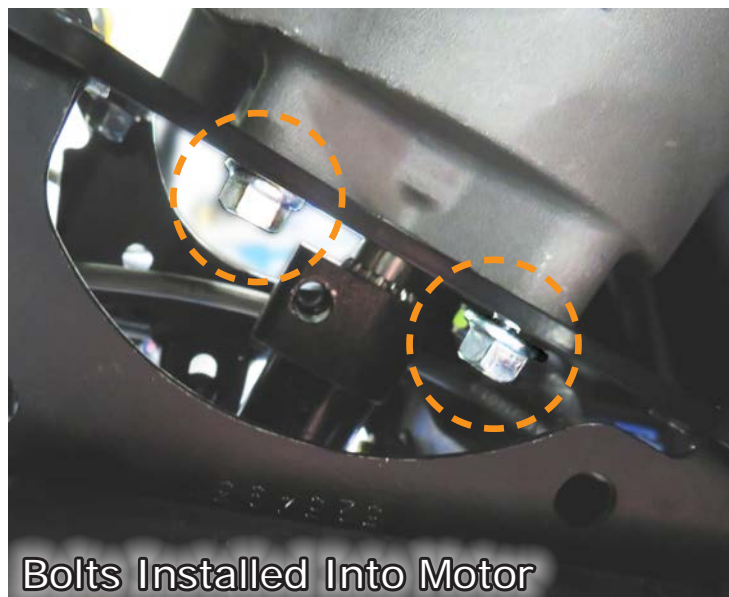


Fig.40b

41. Next, install the **Pinch Bolt** into the **Lower Steering Shaft Assembly** to secure the spline shaft in place. See **Fig.41**.

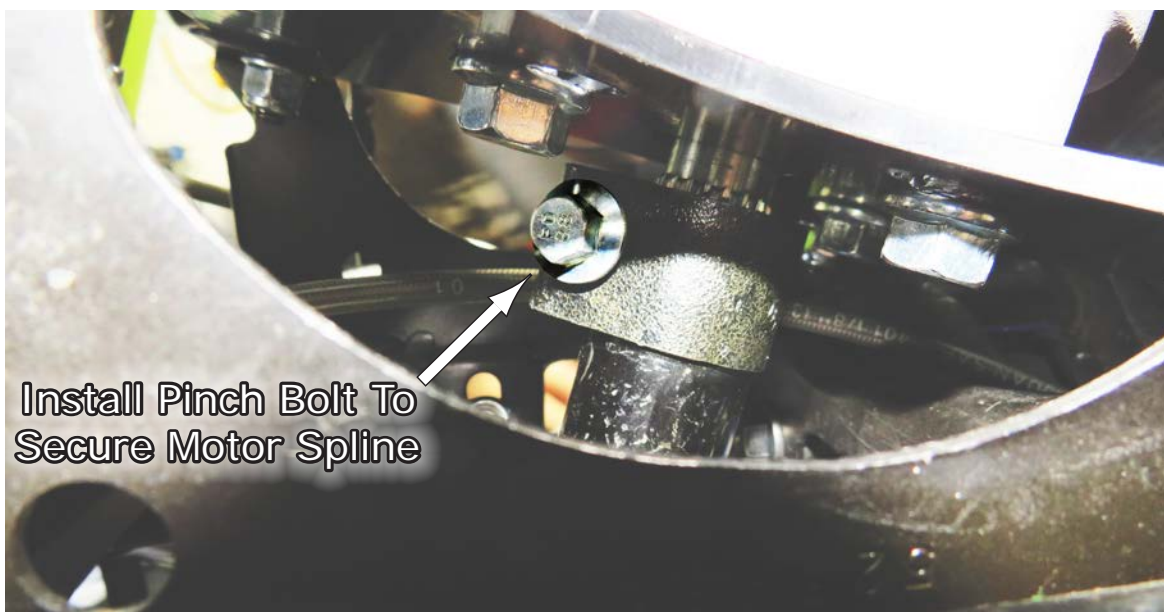


Fig.41

42. Now find the new **New Steering Shaft** as shown in **Fig.42a-b** and feed it down through the opening you removed the **Factory Rod** out of. Then continue on down until you are able to slide the shaft onto the **Motor Spline** as shown in **Fig.42c**. Then install the **Pinch Bolt** into the shaft to secure it to the **Steering Motor** as shown in **Fig.42d**.



Fig.42a

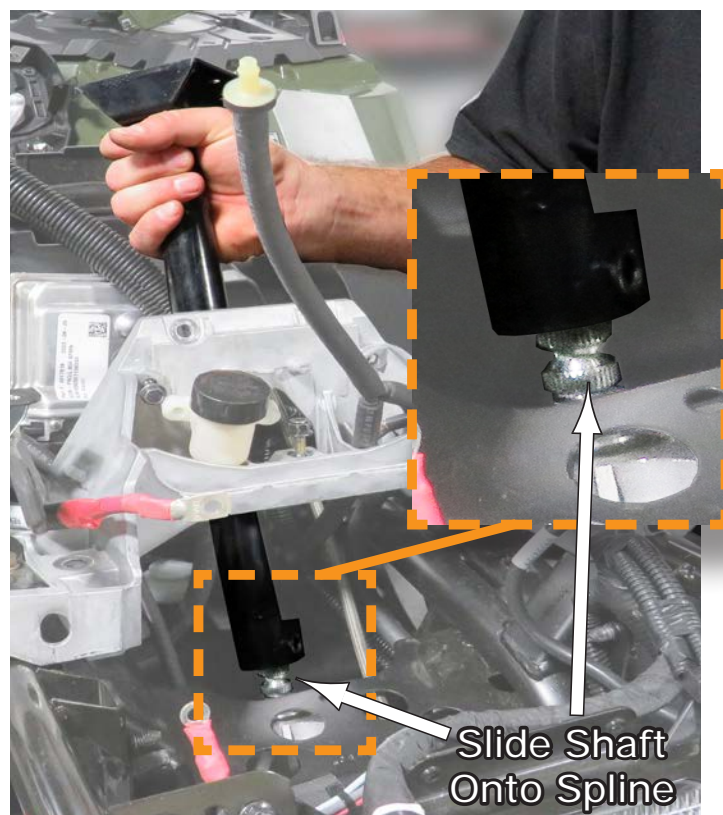


Fig.42b



Fig.42c



Fig.42d

43. After the Steering Shaft is installed onto the motor, now you can install the **ECU**. First find the **ECU** and the **Control Mount Bracket** provided in your kit. You will attach the **ECU** to the **Bracket** using the hardware provided in your kit. **Fig.43a-d** shows how the **ECU** goes on the **Bracket** installed and ready to install in your vehicle in the next steps.

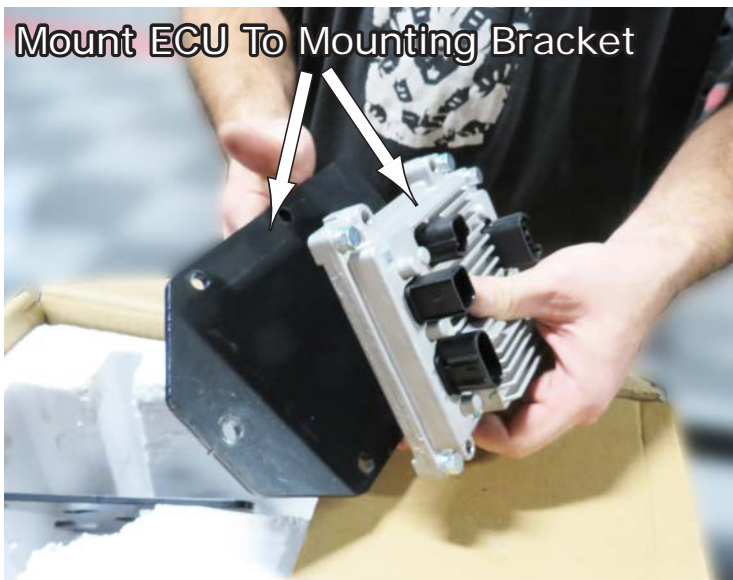


Fig.43c



Fig.43d

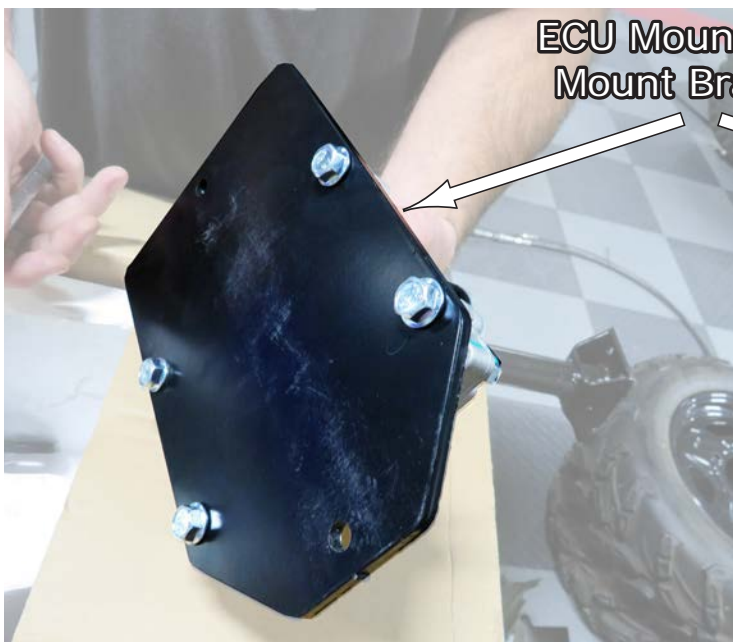


Fig.43c



Fig.43d



44. Now find your Wiring Harness and plug in the connector plugs into the **ECU** as shown in **Fig.44a-b**. These connectors will only plug into the correct plugs of the ECU, but we have provided a completed ECU for you to compare the wire colors and connectors for your reference. See **Fig.44b**.

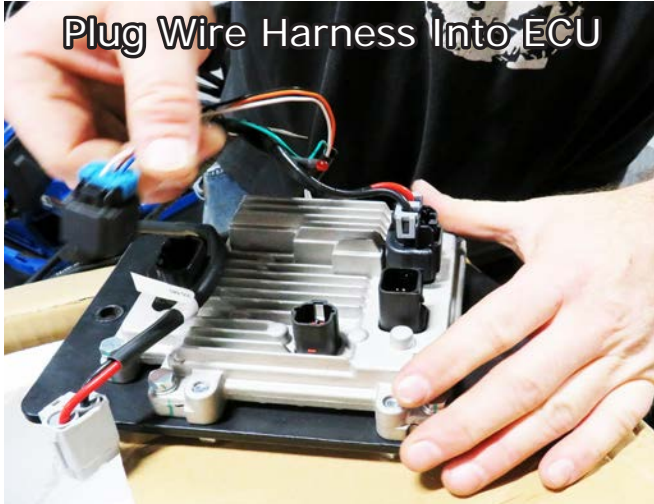


Fig.44a

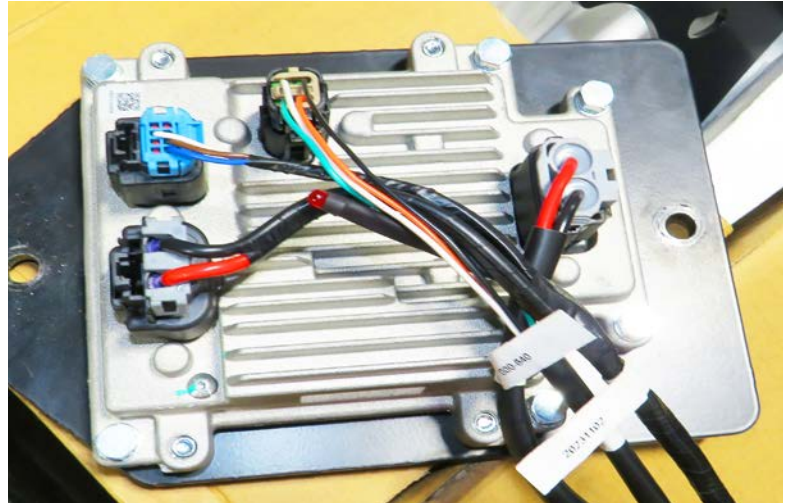


Fig.44b



45. Next you will be mounting the **ECU** onto the vehicle on the **Cross Bar** up underneath in the front as shown in **Fig.45a**, and it will mount to the bar using the hardware in your kit onto the top face of the bar as shown in **Fig.45b**.



Fig.45a



Fig.45b

46. However, before mounting it on the bar, first find the **Control Module Pinch Plate** included in your kit. This will be used to mount inside the **Cross Bar** threading the bolts from the **ECU** into the **Pinch Plate** (holes are threaded). **Slide the Pinch Plate** all the way in the **Cross Bar**, **Fig.46a**, and install the first bolt of the **ECU** in the location at the end of the Cross Bar as shown in **Fig.46b**. (**NOTE:** Cross Bar Location is between the rear wheels under the rear deck)

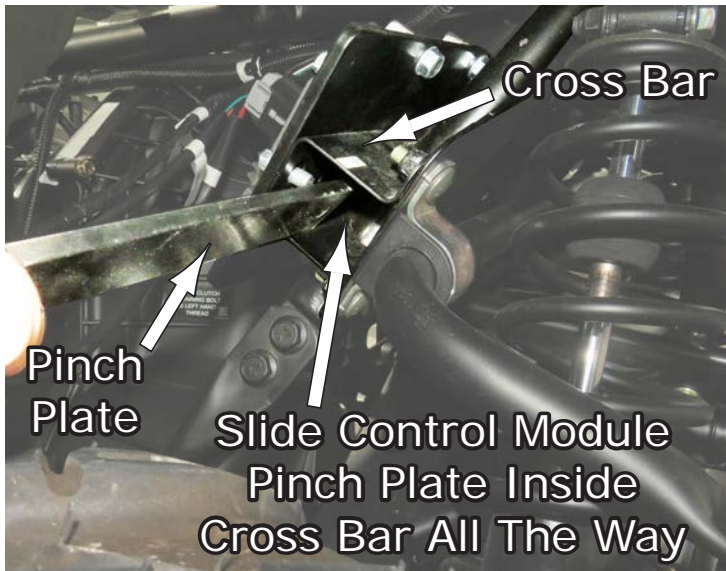


Fig.46a



Fig.46b



47. Then screw the **First Bolt** into the **Pinch Plate** as shown in **Fig.47a**, but do not tighten it down until the other bolt is threaded in place. See **Fig.47b**.



Fig.47a



Fig.47b

48. Now install the **2nd Bolt** of the **ECU** from the top, as shown in **Fig.48a**. You will probably need a socket extension to reach the location. Once it's threaded in, go ahead and tighten this one down, and then go back and tighten the first one down as well. See **Fig.48a-c**.



Fig.48a

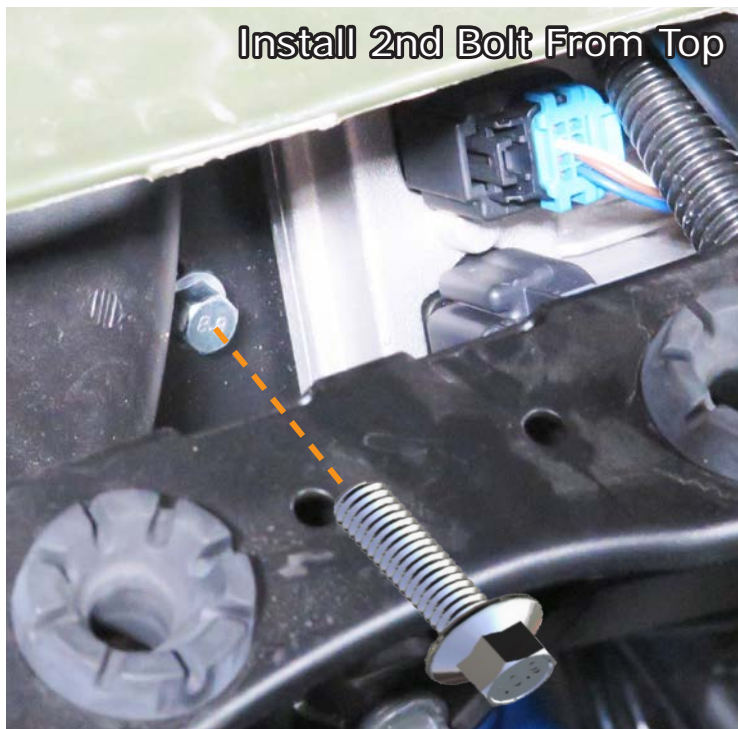


Fig.48b

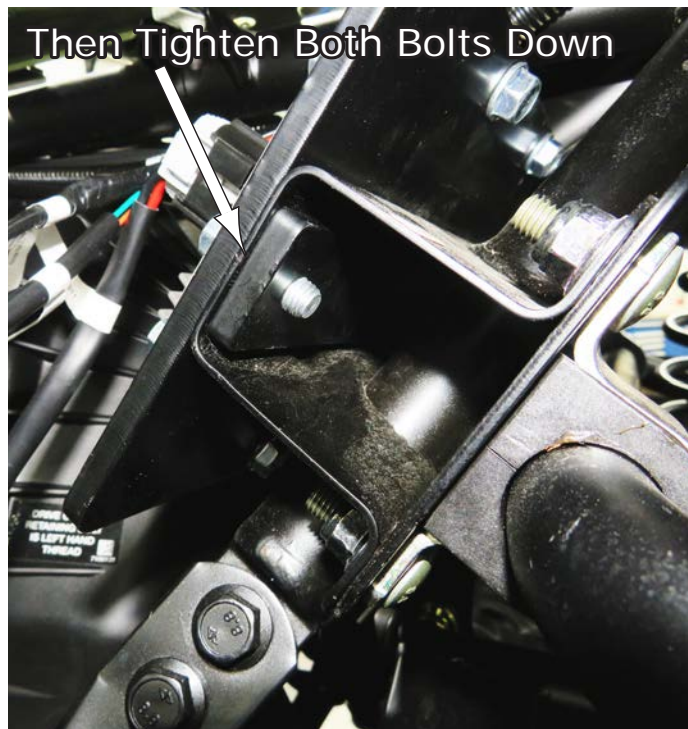


Fig.48c

49. Now you can run the **Harness forward** from the ECU through the frame and towards the front and out as shown in **Fig.49a-b**.

Feed Harness Forward Through Frame Towards The Front



Fig.49a

Then Out



Fig.49b

50. Then continue to feed **Harness** towards the front towards the **Power Steering Motor** as shown in **Fig.50a**. Then connect the **Harness Connector** to the **Steering Motor Connector** as shown in **Fig.50b-c**.



Then Through To The Front Again

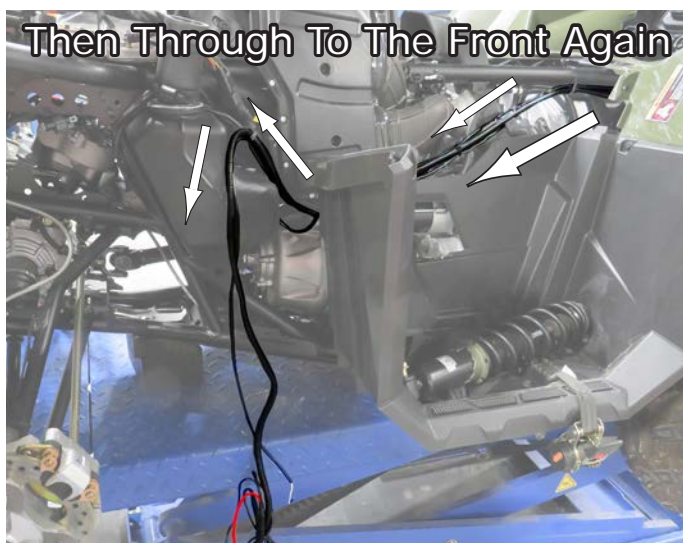


Fig.50a

Connect Harness To Motor Connector



Fig.50b

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Harness Connected To Motor



Fig.50c

51. Now connect the **Smaller Harness Connector** to the **Steering Motor** as shown in **Fig.51a-b**.



Fig.51a



Fig.51b

52. Connect any remaining Harness Connectors as shown in **Fig.51a**, then connect the **Spade Terminals** to vehicle connector as shown in **Fig.52b**, and connect the **Battery Power Ring Terminals** to the battery supply and secure, **Fig.52c**.

NOTE: The **BLUE WIRE** that is with the **Power Harness** is **NOT USED** in this installation, but the **WHITE WIRE** with the Spade Terminal is. This is the one shown in **Fig.52b** that you plug in at this location.



Fig.52a



Fig.52b

NOTE: After the power is connected, then replace app panels, shocks, handle bars, Display etc. by reversing these in structions if needed, and be sure to tighten all screws and bolts secure. Also be sure to Zip-Tie all cables and Harness wires up out of the way before replacing the body panels etc.



Fig.52c



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SuperATV's® products are designed to best fit user's ATV/UTV under stock conditions. Adding, modifying, or fabricating any factory or aftermarket parts will void any warranty provided by SuperATV® and is not recommended. SuperATV's® products could interfere with other aftermarket accessories. If user has aftermarket products on machine, contact SuperATV® to verify that they will work together.

Although SuperATV® has thousands of satisfied customers, user should be aware that installing lift kits, long travel, or suspension kits, tires, etc. will change the ride of machine and may increase maintenance and part wear. Operating any off-road machine while, or after, consuming alcohol and/or drugs increases risk of bodily harm or death. No warranty or representation is made as to this product's ability to protect user from severe injury or death. SuperATV® urges operators and occupants to wear a helmet and appropriate riding gear at all times.

By purchasing and installing SuperATV® products, user agrees that should damages occur, SuperATV® will not be held responsible for loss of time, use, labor fees, replacement parts, or freight charges. SuperATV®, nor any 3rd party, will not be held responsible for any direct, indirect, incidental, special, or consequential damages that result from any product purchased from SuperATV®. The total liability of seller to user for all damages, losses, and causes of action, if any, shall not exceed the total purchase price paid for the product that gave rise to the claim.

SuperATV® will warranty only parts provided by SuperATV®. Any damage or problems with OEM housings, bearings, seals, or other manufacturers' products will not be covered by SuperATV®. SuperATV® parts and products are not warranted if item was not installed properly, misused, or modified.

Installing, adding, modifying, or fabricating any factory or aftermarket product to your ATV/UTV may violate certain local, state, and federal laws. Be advised that laws vary depending on town, city, county, state, etc. Use of certain products on public streets, roads, or highways may be in violation law. The Buyer is solely and exclusively legally and personally responsible for any violation of the law by the installation or use of the product. You must abide by all local, state, and federal laws, including but not limited to vehicle safety, traffic laws, and ordinances. It is your responsibility to know the laws and how they apply to you.

The Buyer is responsible to fully understand the capability and limitations of his/her vehicle according to manufacturer specifications, warnings and instructions and agrees to hold SuperATV® harmless from any damage resulting from failure to adhere to such specifications, warnings and/ or instructions. The Buyer is also responsible to obey all applicable federal, state, and local laws and ordinances when operating his/her vehicle while using this product, and the Buyer agrees to hold SuperATV® harmless from any violation thereof.

If you have any problems/questions on this kit, contact us by email at [Superatv.com](mailto:sales@superatv.com).

Need help with your installation?



sales@superatv.com



www.superatv.com



1-855-743-3427



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

*Thank You
For Choosing*



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