

Kit PN 19059-R – Power Steering Standard Cab

Kit PN 19059-R – Power Steering Crew Cab

19059-R Installation Guide, Power Steering

SPECIAL REQUIREMENTS: This Guide covers Standard Cab and Crew Cab

TOOLS REQUIRED		ESTIMATED INSTALL TIME	RECOMMENDED SKILL LEVEL
½" Wrench	10mm Socket	1 Hour	Intermediate
½" Wrench	7/16" Socket		
17mm Socket	7/16" Wrench		
17mm Wrench	3/16" Allen Wrench		

Before you begin, check the contents of the kit against the parts list below. Immediately contact American Landmaster with any questions or discrepancies. American Landmaster cannot assume responsibility for any damage or injury resulting from incorrect installation of parts. American Landmaster suggests that accessory kits be installed by an authorized American Landmaster dealer or service center.

!! WARNING !!

Serious Injury or death could occur!

- Use proper personal protective equipment during installation of this kit. Use safety glasses.

PARTS LIST FOR AMERICAN LANDMASTER ACCESSORY KIT

- | | | | | |
|--------------------------|-------------------------------|--------------------|-------------|---------|
| (1) Power steering motor | (1) Shaft coupler | (1) Steering Shaft | (1) Harness | (1) ECU |
| (2) ECU bolt | (3) Power Steering Motor Bolt | | | |



Figure 1 –Kit contents – Power Steering

ASSEMBLY INSTRUCTIONS:

Here is the instructional video: In Process

Preliminary Dis-Assembly Instructions:

- 1- Remove the hood. Remove three screws from each front fender and two screws from the front hood using the 4 mm Allen wrench. Lift the hood off and set aside. If the vehicle has turn signals, disconnect the amber lights by depressing the release tab on each turn signal lamp connector and pull apart. Set the hood aside where it will not be damaged.



Figure 3: Removing Three Fender Fasteners



Figure 4: Removing Two Hood Fasteners

- 2- Remove upper and lower steering shaft bolts

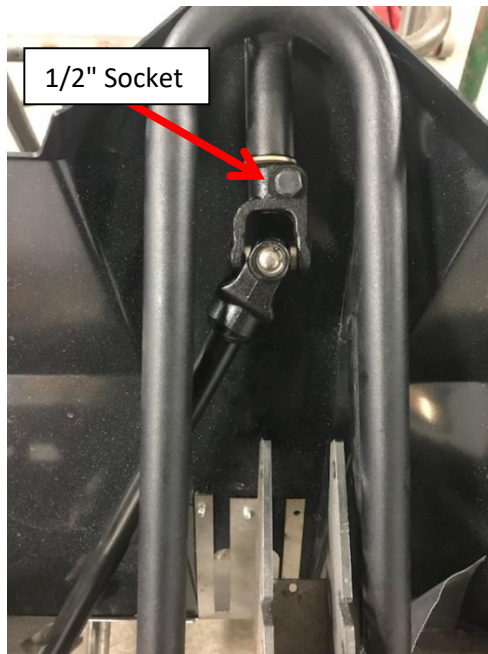


Figure 5: Removing Shaft Bolt

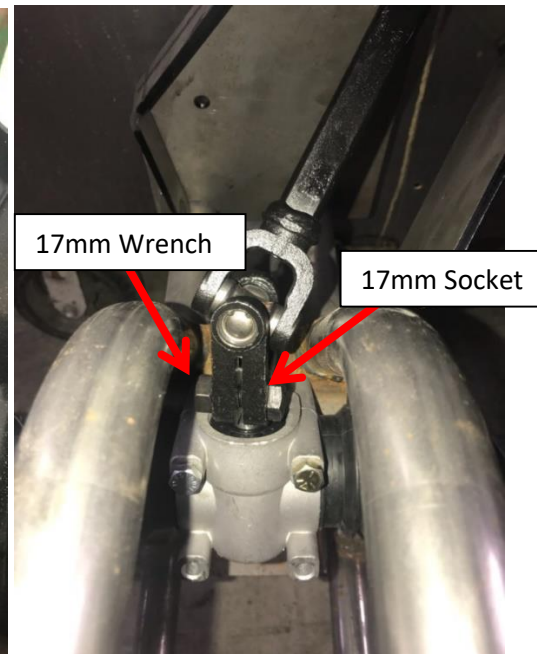


Figure 6: Removing Shaft Bolt



- 3- Remove Non EPS Shaft by sliding shaft out of spline on both ends

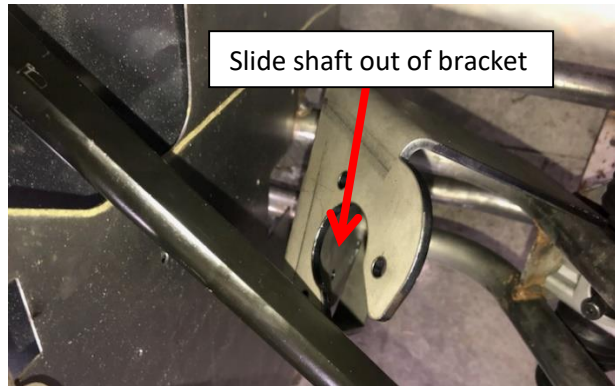


Figure 7: Removing Std. Shaft

XXXXXX Installation:

- 1- Place the control module on the backside of the power steering bracket with connections facing up. Using the holes in the bracket tighten down ECU module (10 mm wrench or Philips screw driver)

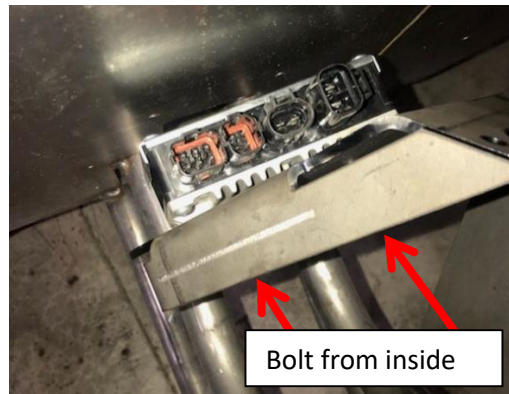


Figure 8: Connecting EPS ECU module

- 2- Insert the power steering unit into the U-joint coupler as far as it will go
- The coupler will only go on in one orientation to the rack and pinion (look for machined flats and align)
 - (DO NOT ADD BOLT)



Figure 9: Installing EPS Coupler



- 3- Pivot the EPS unit into the slot of the bracket with the cylinder towards the passenger side of the vehicle. With the 3 provided bolts tighten down the EPS unit HALF way (10mm wrench)



Figure 10: Lower EPS

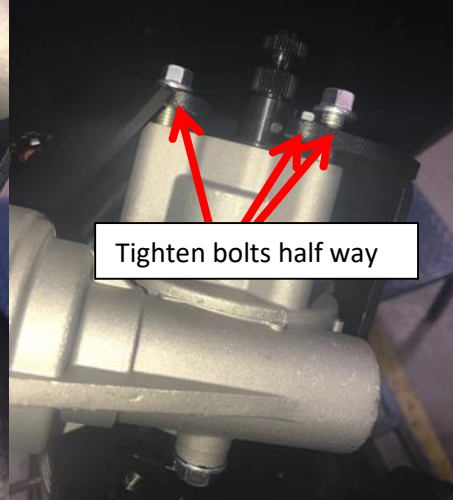


Figure 11: Upper EPS

- 4- Insert and the U-joint coupler bolt on the EPS spline shaft, then tighten the upper EPS 10mm bolts. Finish tightening the coupler to the rack and pinion and the EPS.

- a. (1/2" socket) (17mm wrench & 16mm socket)(10mm socket)



Figure 12: Tight Upper EPS Bolts



Figure 13: EPS Coupler



Figure 14: EPS Coupler

- 5- Take the steering wheel off exposing the spline adjustment bolt
a. (7/16" socket & 3/16" allen)
- 6- Loosen the spline adjustment bolt until the steering shaft spline aligns and insert bolt then tighten on both ends
a. (3/16" allen & 1/2" socket)



- 7- Attach the 4 wire adapters to the control module, push in until you hear a click



Figure 15: ECU Connectors

- 8- Identify EPS connector on Instrument Panel harness. Connect EPS harness to IP harness.



Figure 16: IP Harness



Figure 17: IP Harness- no cap



Figure 18: IP + EPS Harness

- 9- Run wiring for battery terminal ends and attach onto battery. Red for positive & black for negative
a. (7/16" socket & wrench)

Testing the 19059-R:

- 1- Turn the key to the ignition position. On the EPS harness, identify the red LED light. Be sure the light flashes once.
- 2- Rotate the steering wheel, if installed properly, the steering effort will be significantly decreased.

Reassembly:

- 1- Reinstall the hood. Be sure to hook up the front turns signals, if equipped.