



1968-1982
C3 Corvette
Installation Guide

WARNING



Please read and understand this manual before installing your EPAS kit.

The installation of this system should be done by a professional mechanic or a very knowledgeable amateur. You will be cutting and splicing your steering column, therefore EPAS Performance will not be held responsible for any malpractice. Caution should be taken when installing the electric motor: no impacts, shocks or hammering should be done to the unit. For aesthetic reason, you may choose to paint the assembly either in black or the color of your steering column to conserve the original look.

For a complete understanding, we strongly suggest to read this owner's manual prior to any installation.

Should you have any questions or concerns feel free to contact us at (941) 893-5427 or visit our website for installation videos.

EPAS Performance wishes you thousands of enjoyable miles with your new Electric Power Steering!



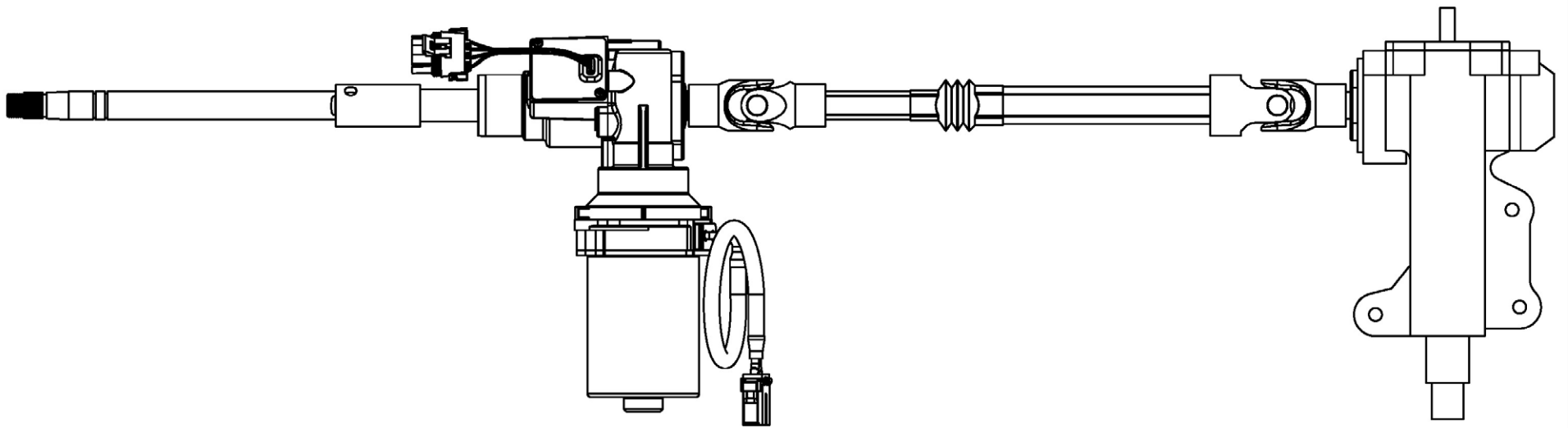
Required tools:

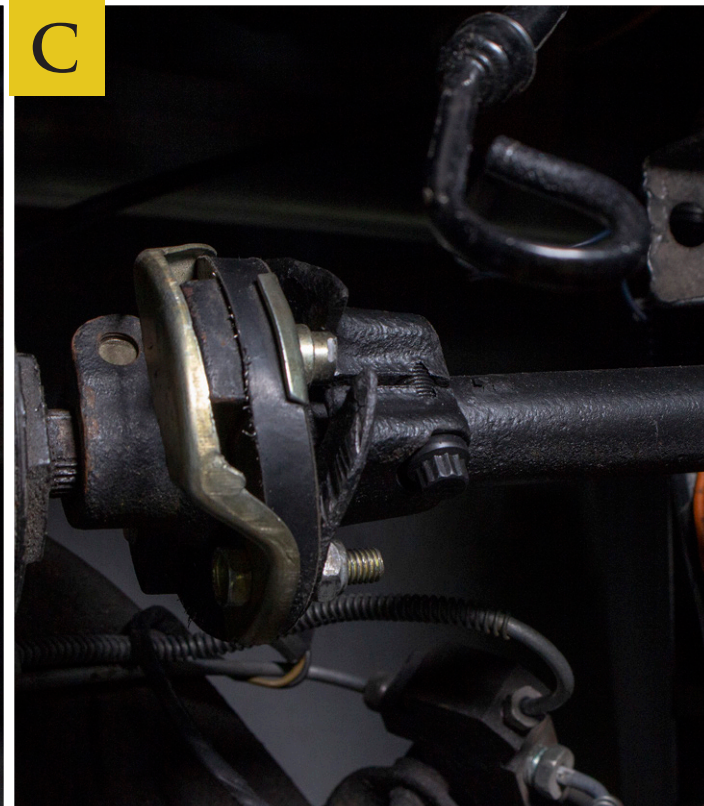
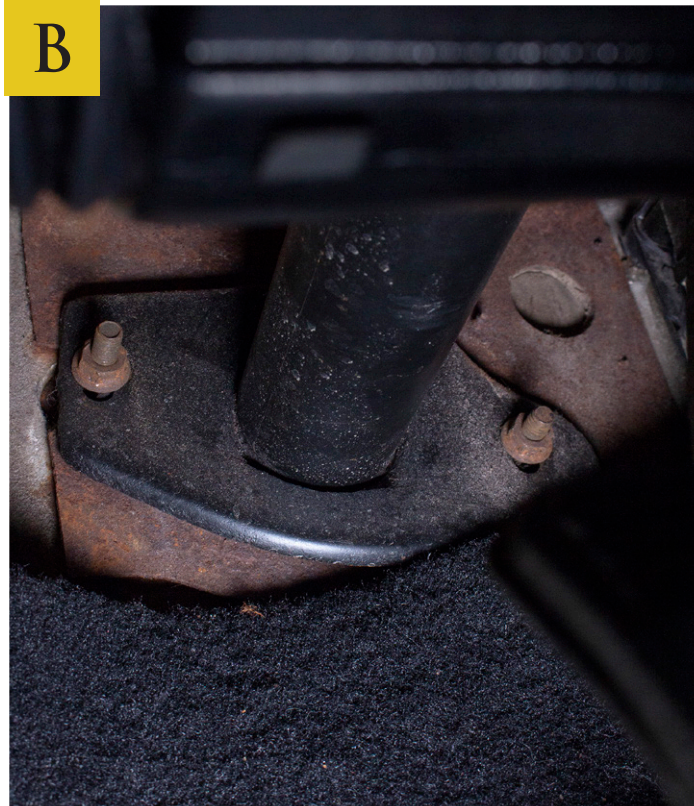
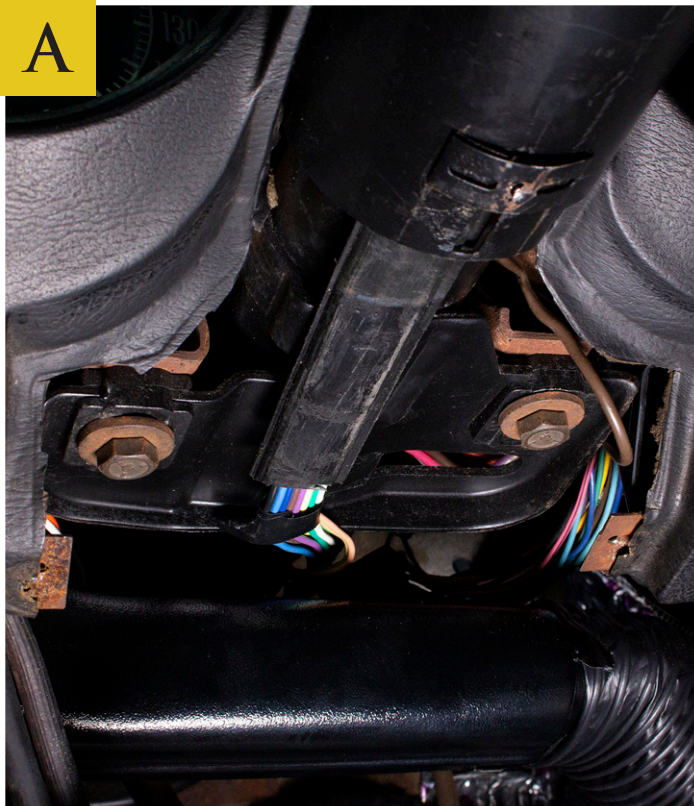
- Drill
- Right angle grinder, with cutting disc
- Eye protection
- Measuring tape
- Steering wheel removal tool
- You will also need hand tools to remove the steering column

**C3 Corvette
1968-1982**



Motor Orientation Diagram



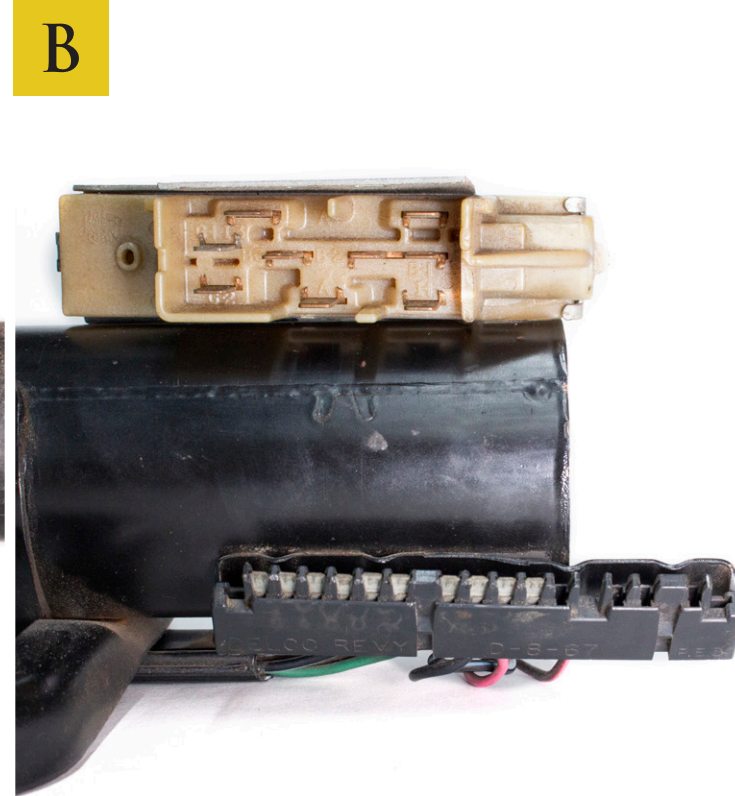
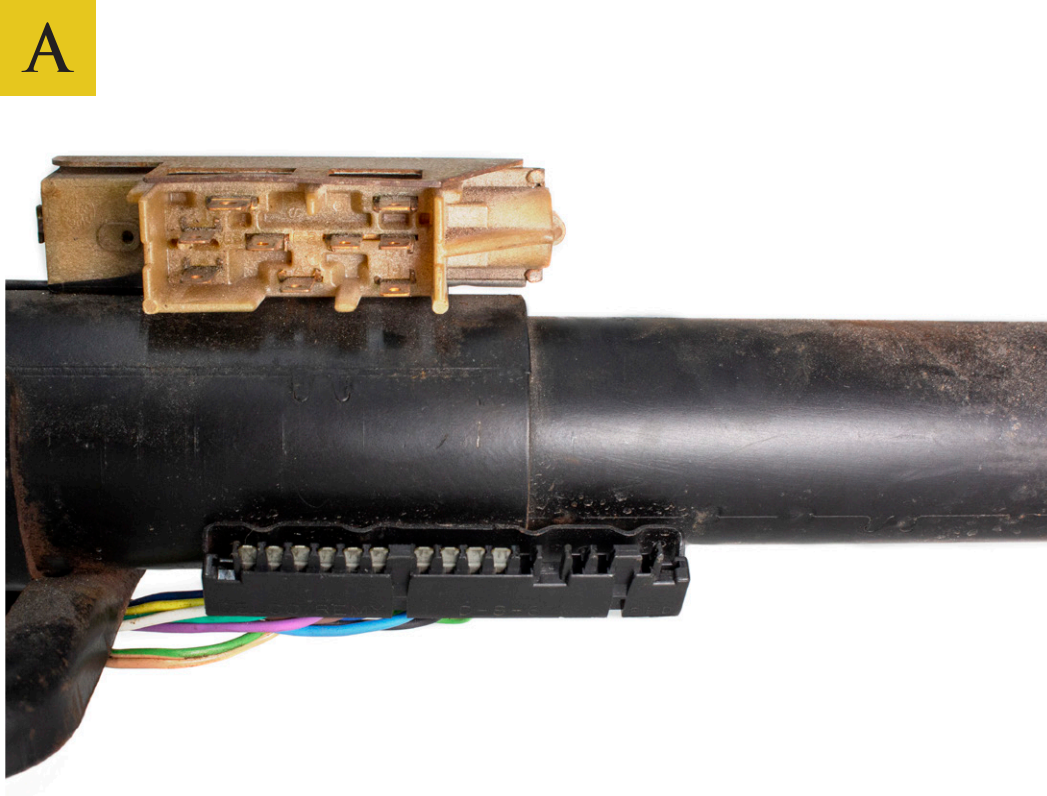


Column Removal:

Disconnect the battery and remove steering wheel and column from the vehicle.

To do this you will need to remove the bolts holding the column in place on the dash mount and the fire wall plate. You will also have to remove the rag joint connecting the steering shaft to the steering box.

You will need to reuse the engine side firewall plate. Do not discard.

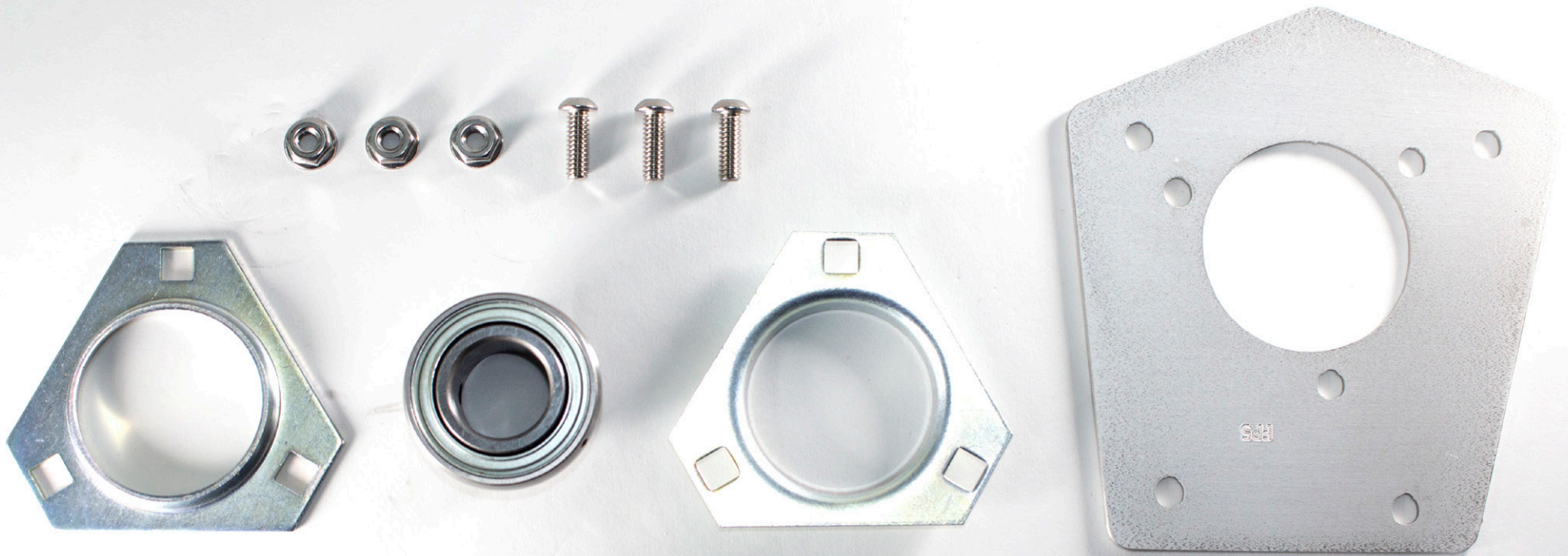


Column & Shaft Modifications:

Measuring from the top of the column bell housing (where the steering wheel mounts) cut the column at 22 3/8"

Remove the steering shaft and cut an additional 3 1/2". The inner tube can then be discarded.

Reinstall the steering shaft into the column. Place the EPAS motor on to the end of the column. When you are comfortable with the length, you can tighten the set screws on the shaft coupler and lock tight; you can also weld.

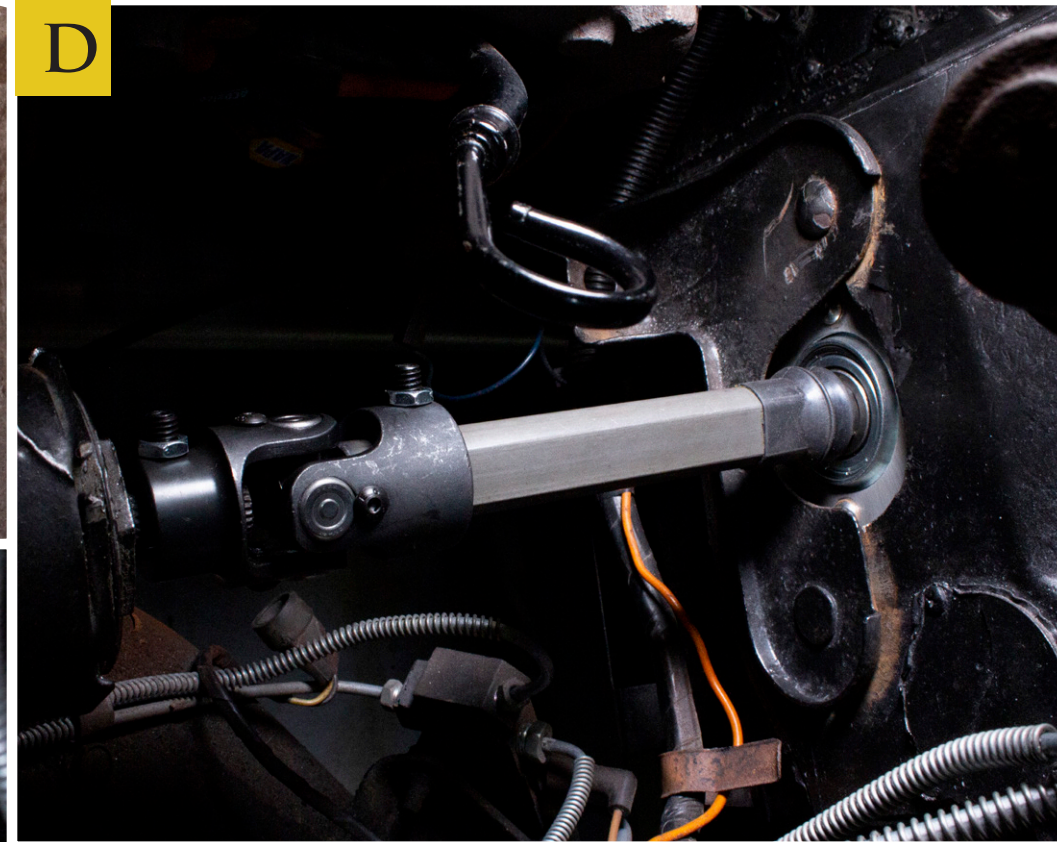
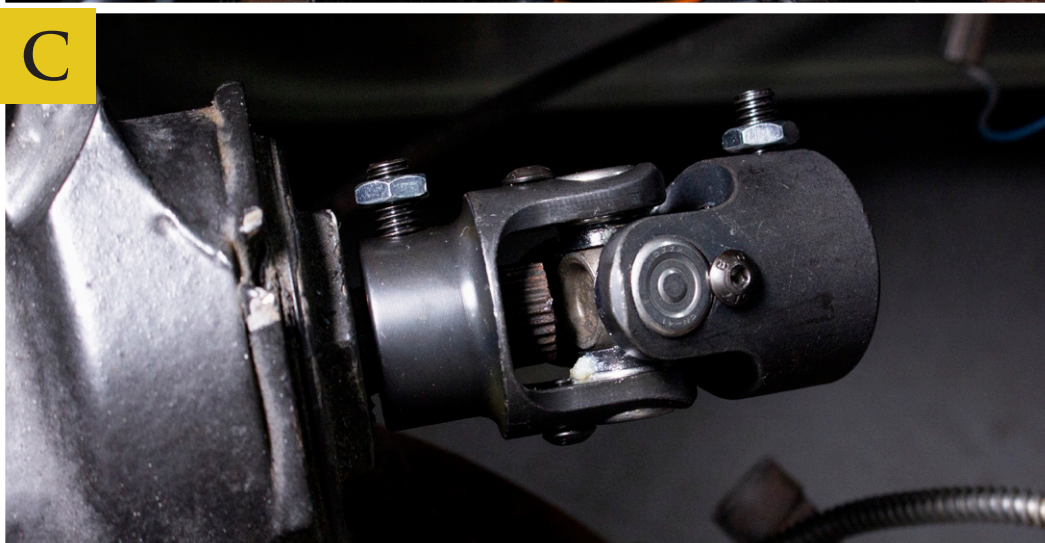


Bearing Plate Assembly:

**Plate style and shape will vary per application*

For kits that include a firewall plate, align them so that they match the images shown. Be sure the bolts holding the bearing in place are loose to allow the bearing to pivot inside of the flanges. This will allow you to achieve the required angle of the collapsible shaft to align with the steering box (mounting flanges may have to be separated for bearing to pivot).

Make sure to tighten all bolts once all parts are aligned.



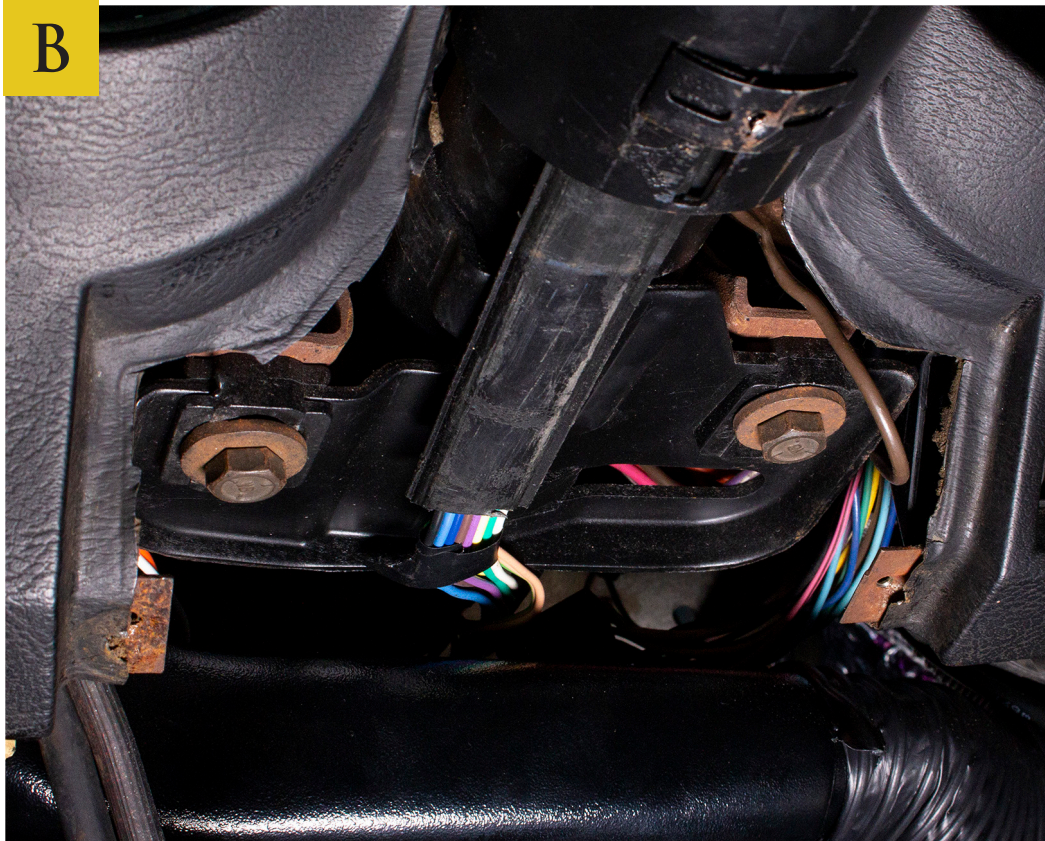
Lower Portion Installation:

Install the new firewall bearing and plates. Leave the bolts loose to allow the bearing to pivot to the required angle (mounting plates may have to be pried apart to allow bearing movement). Reinstall the OEM engine side firewall plate.

Replace OEM rag joint with provided $\frac{3}{4}$ 30 x 1" DD ujoint.

Run the shaft with the coupler welded to it through the firewall bearing and plate, into the 1" DD shaft. Leaving just the welded splined coupler inside the firewall.

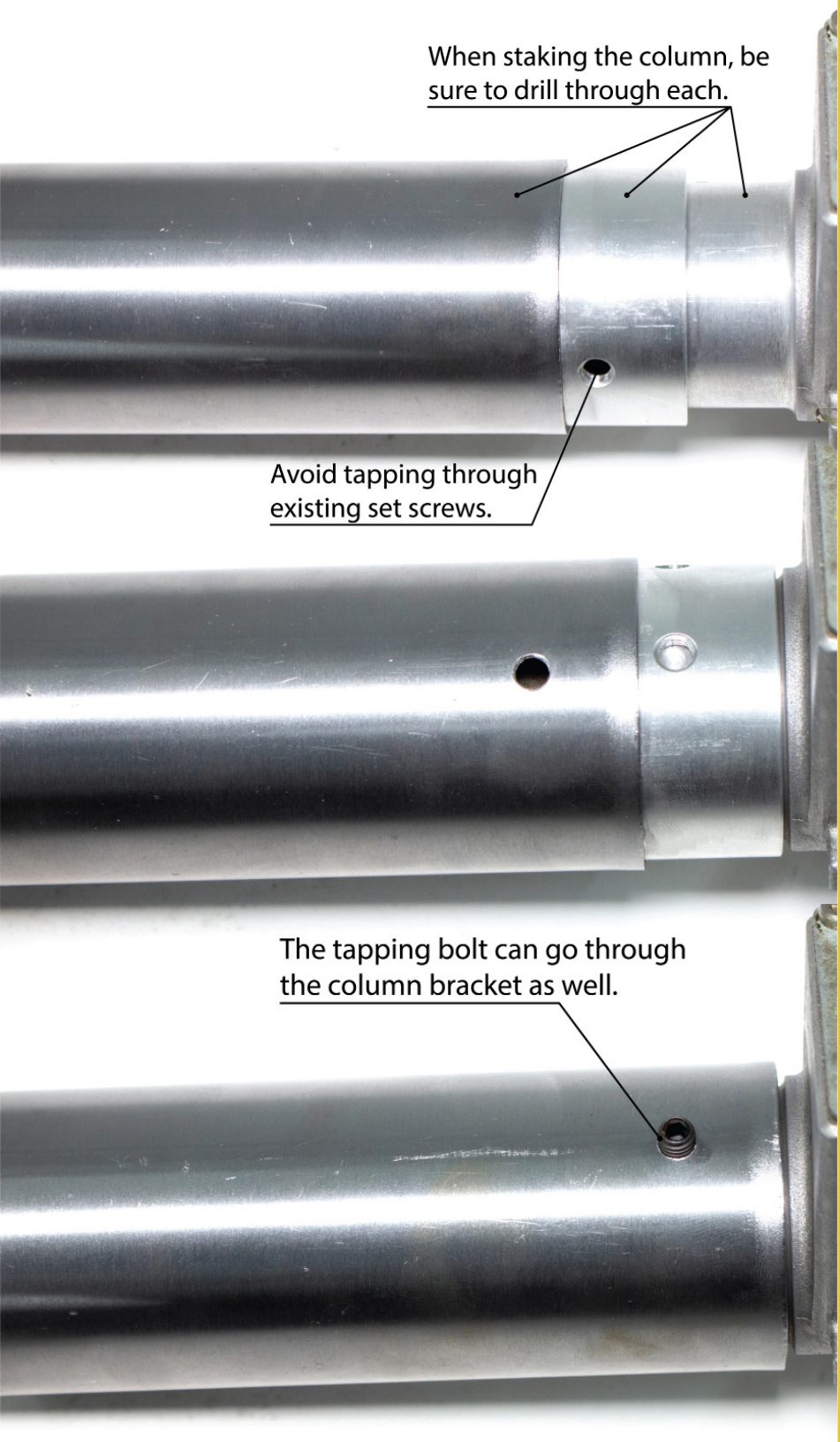
Install the steering box ujoint to the 1" DD shaft. Push or pull to achieve required length to install the ujoint onto the steering shaft.



Column & Shaft Modifications:

Once the lower portion is in place you can reinstall the steering column with the newly attached EPAS system. The EPAS motor should sit at around the 3 O'clock position. Connect the splined end of the EPAS motor into the steel coupler protruding through the firewall plate assembly and tighten the included set screw.

Secure the bolts holding the steering column to the dash.



When staking the column, be sure to drill through each.

Avoid tapping through existing set screws.

The tapping bolt can go through the column bracket as well.

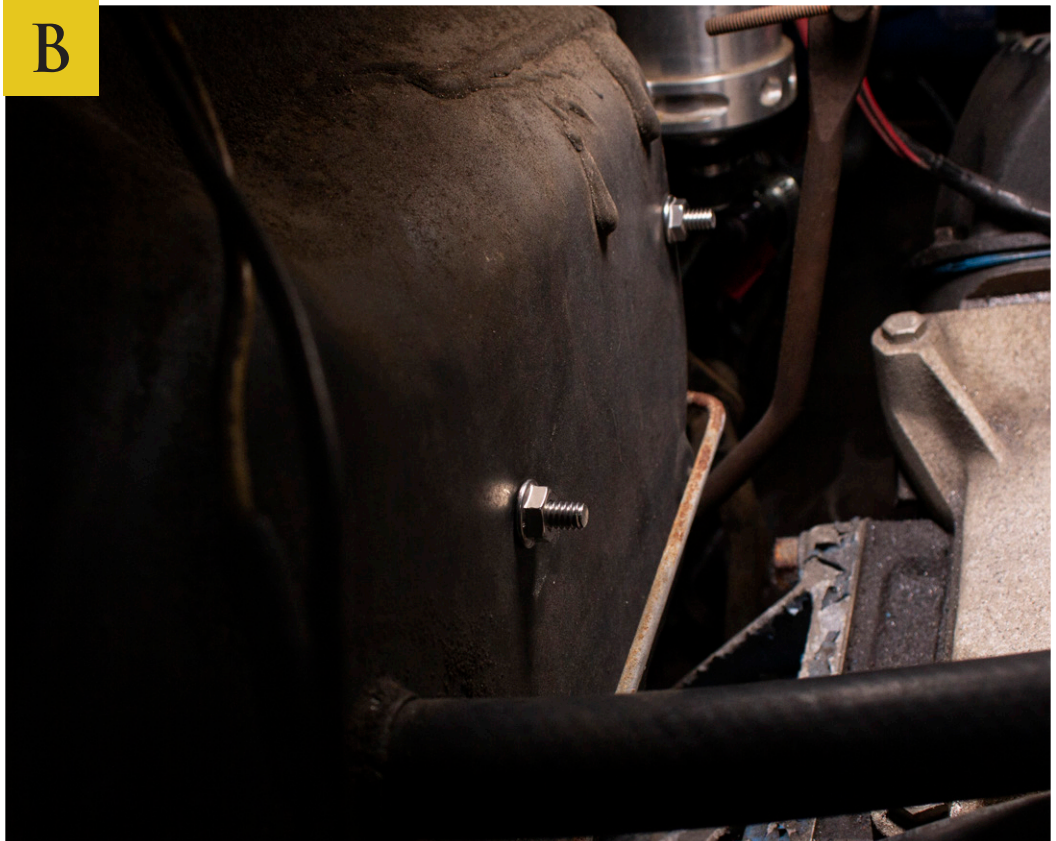
STAKING COLUMN:

For added stability, the column tube and motor housing can be “staked” in place to reduce the possibility of the system spinning in the vehicle. This process is suggested but not required.

To begin the staking process you will first need to clock the motor to the correct position and mark the column. Once the steering column is in place, the motor should sit at the 3 O’clock position. The motor has 360° clockability to allow for an adjustable fit if the suggested position does not work.

Drill a hole through the column tube and the aluminum collar (attached to the motor) tapping the motor housing. (“Tapping” the motor housing is making a dent in the housing to ensure the bolt being used will rest in the dent) Stake the column in place using ¼-20 bolt to “sandwich” all three together.

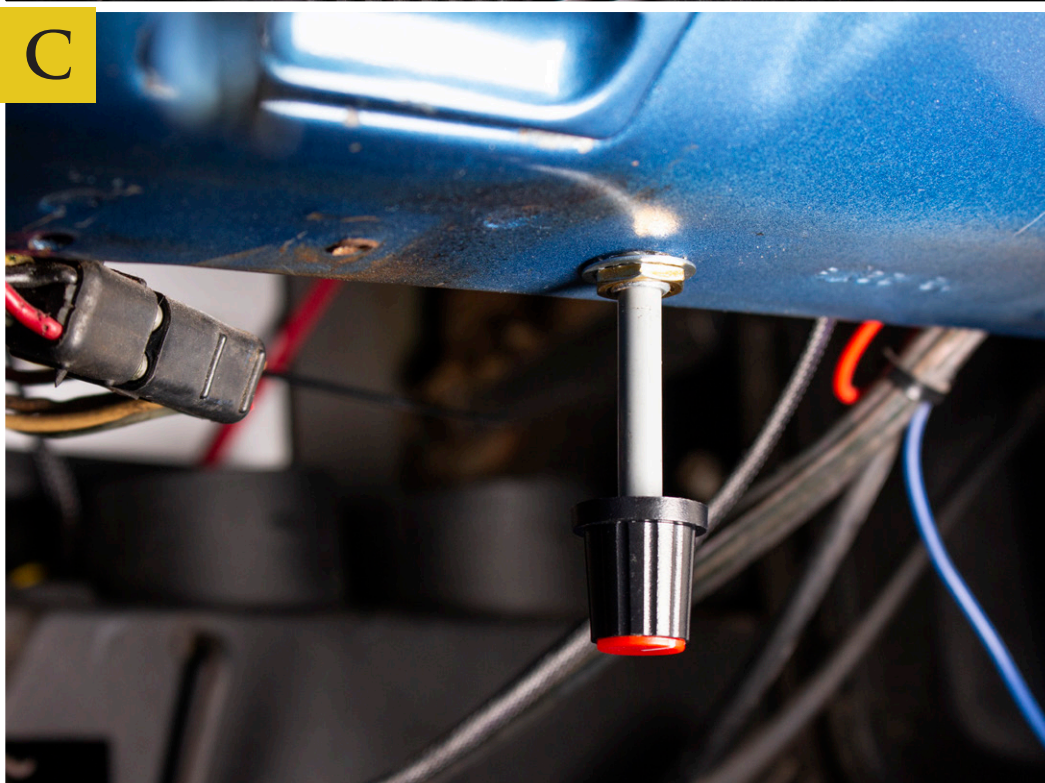
Ensure the screw length is no more than 10mm, if it is too long it can bind the shaft. You can drill through the motor housing for additional security (**BE SURE NOT TO DRILL OR TAP INTO THE MOTOR SHAFT**).



Control Module Installation:

Install the pre-wired control module and its wiring. Ensure both ground wires are properly connected to the module plate before mounting. Our suggested location is under the center console.

Connect the plug from the motor (**Blue Connector**) to the module. Connect the plug for the torque sensor (**4way**) to the module.



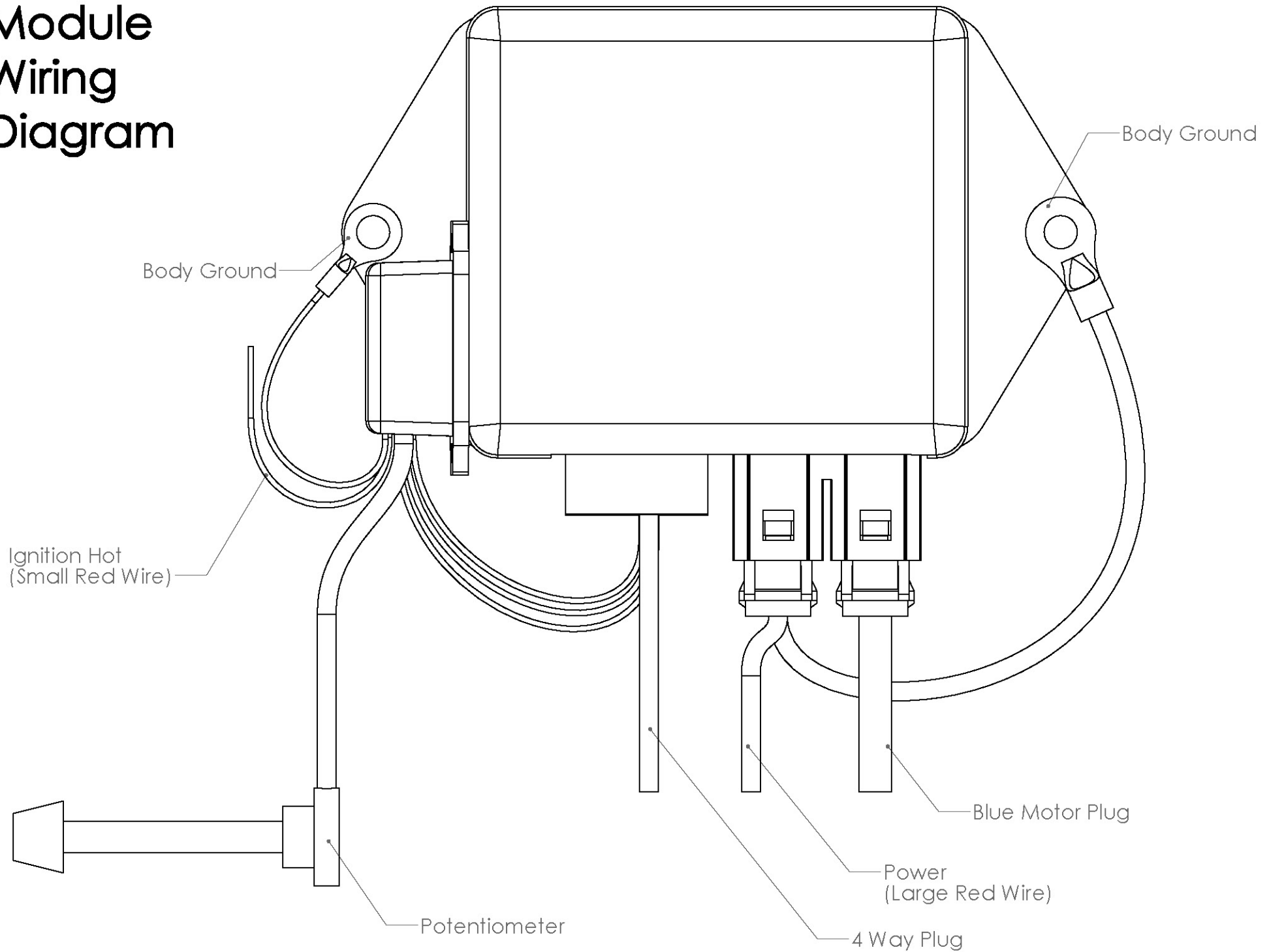
Power Wires & Potentiometer Installation:

Hook up the small red wire to a hot in run and the #10 red wire directly to your battery or a direct power source.

Install potentiometer in an accessible location.

This potentiometer allows you to adjust the strength of the assistance provided by the system. When turned fully clockwise the system will be set to maximum. Turning the dial counter clockwise will reduce the amount of assistance until none is being provided. Your steering will have returned to its original resistance (the system will not be completely powered down until the vehicle itself is turned off).

Module Wiring Diagram



TERMS AND CONDITIONS

LIABILITY LIMITATION AND RELEASE

We are pleased you have chosen to purchase one of our automotive specialty equipment items. Our products are carefully designed to combine performance, durability and safety, and to work in concert with the vehicle's original equipment. As they are specialty products, however, and as both performance and safety are paramount concerns, we urge our customers to consider having the products professionally installed.

We caution the purchaser that the enhancement provided by the specialty equipment item may change the handling characteristics of the vehicle. We urge the purchaser to carefully familiarize him/herself with the vehicle's performance characteristics with the new equipment. This should be done in a safe environment and in a safe manner.

We have no control over the quality or correctness of equipment installations performed by others, nor can we control the uses (in manner or environment) products are subjected to. Accordingly, liability on the part of EPAS Performance LLC is limited to the terms of its Express Limited Warranty.

A decision by the purchaser to retain and install the item purchased will be deemed acceptance of the specific terms of this Liability Limitation and Release.

The purchaser expressly releases and waives any claim against us for any consequential damages or injury that may arise from the use, or any malfunction, of its product. This Liability Limitation and Release binds the original purchaser, all successors in interest, and all persons to whom the product may subsequently be transferred; and the purchaser agrees to make this limitation known to all such persons. This Liability Limitation and Release is part of the consideration for the sale of the product.

This Liability Limitation and Release is governed by the laws of the State of Florida, United States of America. Any dispute regarding its terms or application is subject to arbitration in the State of Florida at the request of either party to the sale.

WARRANTY

This warranty is limited to the repair or replacement of the defective part only; the warranty specifically excludes labor or consequential damages or injury. The decision as to whether the defective part will be repaired or replaced will rest solely with the manufacturer. The warranty period begins on the date the product is shipped to you.

Full 5-year warranty nontransferable.

This warranty is void if the product is or was improperly installed, abused in any manner. Road or accident damage is not covered.

To make a claim under this warranty, call EPAS Performance to return the defective product, shipping or postage prepaid. Please include a copy of the original purchase invoice and a note describing the circumstances of the failure or malfunction.

This warranty is governed by the laws of the State of Florida, United States of America. Any dispute regarding the coverage of this warranty, its application or terms is subject to arbitration in the State of Florida.

If the purchaser disagrees with any of the terms of this warranty, please return the purchased item within three (3) business days of receipt. A decision by the purchaser to retain and install the item purchased will be deemed acceptance of the specific terms of this warranty.

1/16/2020

**Thank you for purchasing the EPAS Performance electric power system.
We do hope you enjoy your vehicle for many miles to come.**

