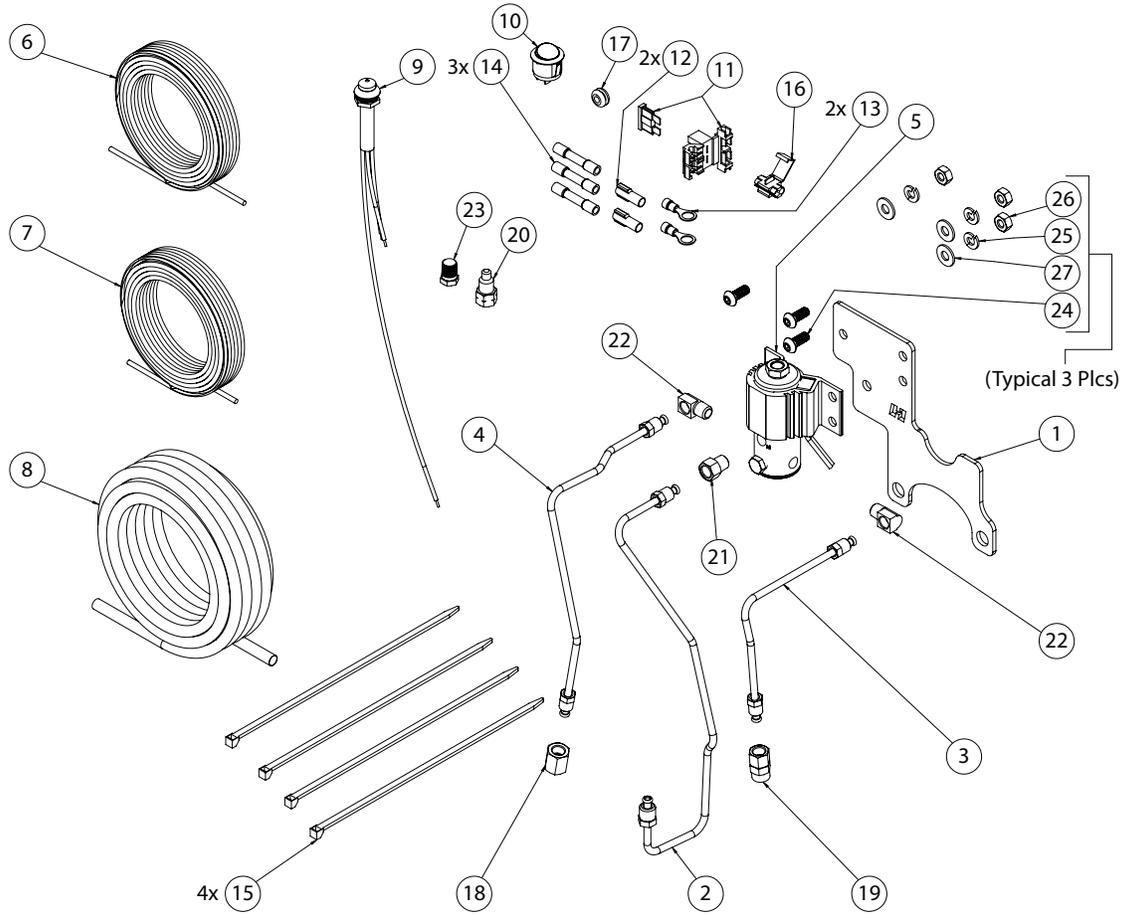




Installation Instructions  
**5671522**  
 ROLL CONTROL  
 1987-93 FORD MUSTANG W/O ABS



ITM #	PART #	DESCRIPTION	QTY.
1	1179522	Bracket	1
2	4460012	Brake Line to Solenoid	1
3	4460013	Front Right Brake Line	1
4	4460014	Front Left Brake Line	1
5	97001789	Valve Solenoid	1
6	5100075	18 Gage Wire (Black)	15
7	5100082	18 Gage Wire (Red)	15
8	4001683	Conv. Split 18 Gage Sleeve	15
N/A	5671522BA-01	Hardware Package #1:	1
9	2482001-40	Lit Momentary Switch	1
10	2482002	On/Off Switch	1
11	97001847	Inline Fuse Holder w/ Fuse	1
12	5000282	18 Gage Terminal	2
13	5000280	Connector 5/16" 18 Ga Eyelet	2
14	5000055	Splice 18 Ga. Connector	3

ITM #	PART #	DESCRIPTION	QTY.
15	5000254	8.07" Zip Tie	4
16	5000163	Tap 18 Ga Connector	1
17	3401703	5/16" Rubber Grommet	1
N/A	5671522BA-02	Hardware Package #2:	1
18	1400482	Union 3/16" - 1/4" Fitting	1
19	1400483	Union 3/16" - 10mm Fitting	1
20	1400484	10mm Plug Fitting	1
21	1400485	3/16 x 1/8 Male Fitting	1
22	1400487	3/16 x 1/8 90° Elbow Fitting	2
23	1400490	1/8 Plug Fitting	1
N/A	5671522BA-03	Hardware Package #3:	1
24	3401556	1/4-20 X 3/8" Screw	3
25	3400131	1/4 Split Lock Washer	3
26	3400028	1/4-20 Hex Nut	3
27	3401598	1/4" Flat Washer	3

## OVERVIEW:



### CAUTION:

Carefully read and comprehend all instructions before beginning install. If you are inexperienced performing this type of install, we strongly recommend using a qualified mechanic or shop to complete it.

Congratulations on the purchase of your new HURST Roll Control system, featuring advanced design quality stainless steel valve assembly for resistance to corrosion, greater durability, reliability and more precise positive action.

### WARNINGS:

This system is designed primarily for high performance race cars to momentarily engage front brakes (max 60 seconds) while staging for a drag race. It won't safely function as a long term brake holding device.

It should be used only on specified applications with a standard hydraulic braking system that is in a safe, operable condition.

It should never be used as a temporary brake holding device in place of a parking brake or of a driver depressing the brake pedal.

We do **NOT** recommend installing system on vehicles equipped with anti-lock or split diagonal brake systems.

## INSTALLATION NOTES:

When working on brake system; maintain a clean working area, not allowing dirt or foreign matter to contaminate it which may allow improper operation and failure.

The Roll Control solenoid valve will not interfere with normal brake operation when properly installed in accordance with directions provided.

On any vehicle, rear brake lights must operate when brake system is under pressure. Therefore, a pressure operated switch must be installed if the Roll Control system defeats the purpose or function of factory rear brake light switch.

The Roll Control solenoid valve must be firmly mounted to prevent brake lines from flexing and causing failures. Mount it on fire wall, away from headers, exhaust pipes, steering and suspension components. Use a line fitting wrench on all line fittings while installing brake lines.

### CAUTION:

Using thread seal to excess can contaminate the solenoid valve or brake system. Use sparingly and do **NOT** apply it to starter thread of fittings.

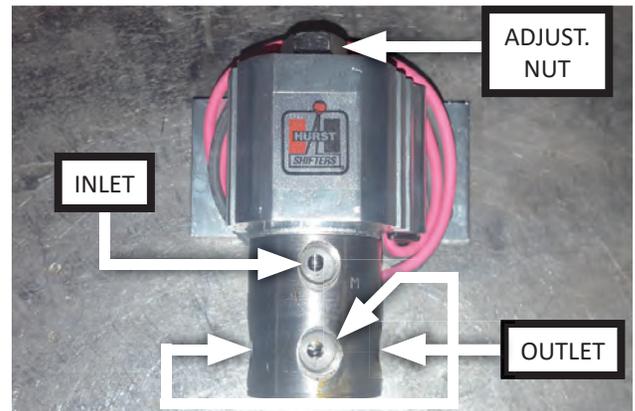
After install, bleed all air out of system following vehicle manufacturers brake bleeding procedures.

### CAUTION:

Be sure to check all connections for leakage under pressure. There must be **NO** leakage.

Use a top quality heavy duty brake fluid that meets DOT 3 or DOT 4 specifications. Most domestic manufactures use five general types of brake systems.

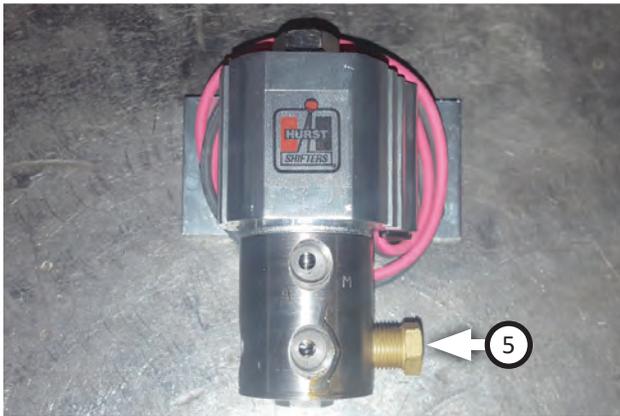
## SOLENOID VALVE:



The solenoid valve features four holes to regulate pressure; the top hole is an inlet, the bottom three are outlets. On top of the valve is an adjustment nut for positioning unit properly.

## BEGIN ASSEMBLY:

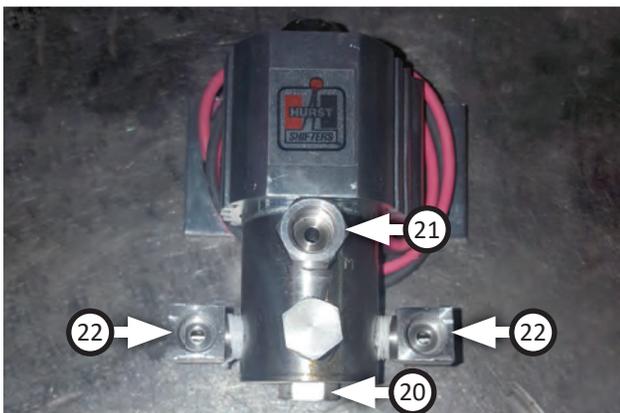
1. To keep brake fluid from leaking, use vacuum bleeder tool to draw it through either front brake calipers until master cylinder is empty.



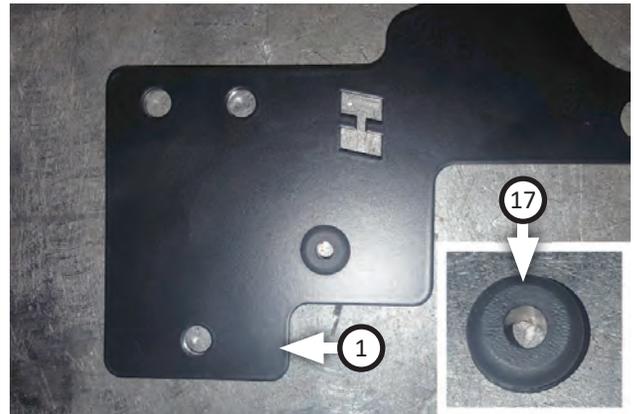
2. Remove brass plug from valve solenoid (5).



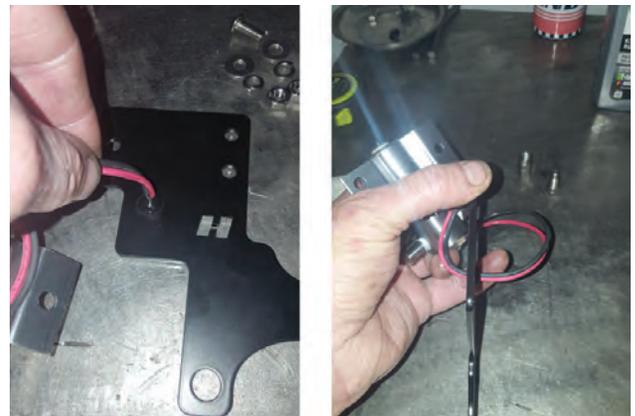
3. Apply teflon tape to all pipe threads.



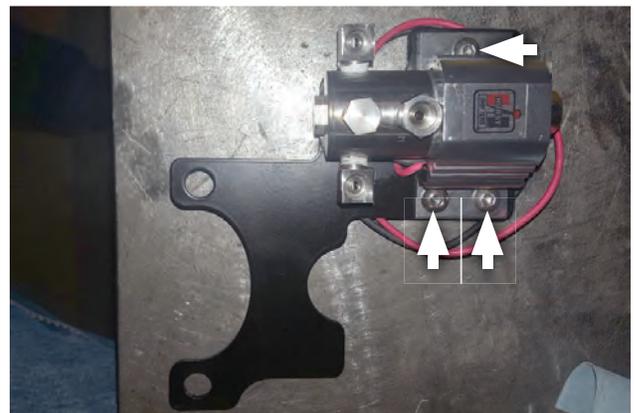
4. Install male fitting (21) and (x2) 90° fittings (22) into solenoid ports as shown. Ensure fittings are tight and sealed properly to prevent leaks.



5. Install rubber grommet (17) into hole on bracket (1) as shown.



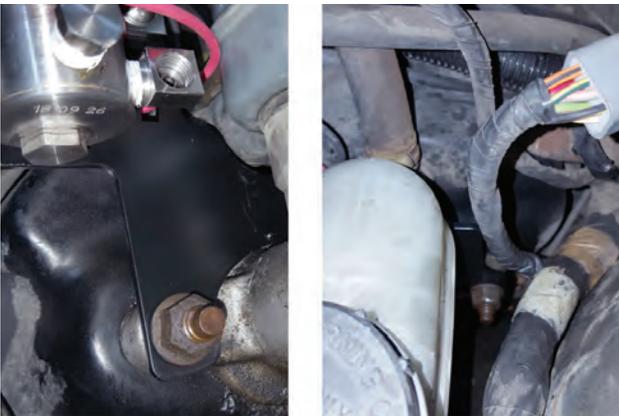
6. Route (x2) solenoid wires through grommet.



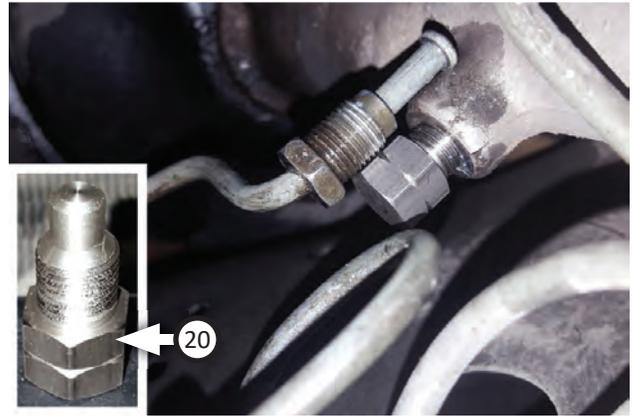
7. Mount solenoid to mounting bracket with (x3 ea.) screws (24), flat washers (27), split lock washers (25) and nuts (26).



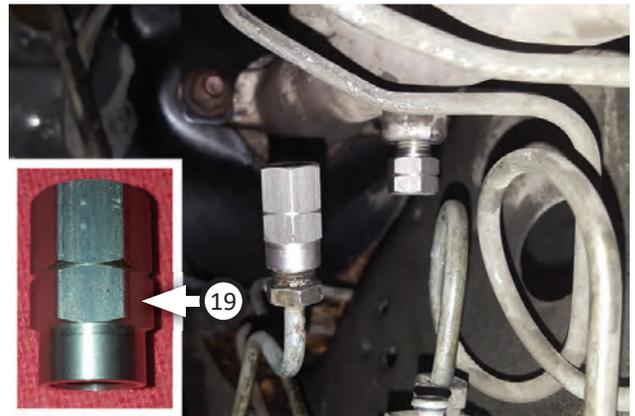
8. Remove (x2) nuts that mount master cylinder to brake booster. Do NOT remove master cylinder.



9. Slide roll control unit over studs and reinstall nuts that were removed.



10. Remove left front brake line from bottom of master cylinder and install **plug fitting (20)**.

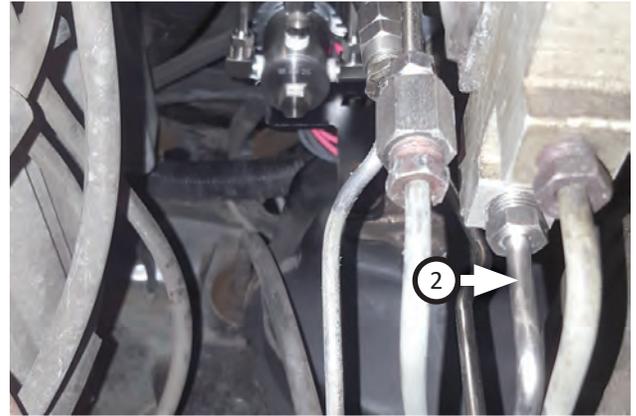


**NOTE:** It is critical to orient this adapter properly.

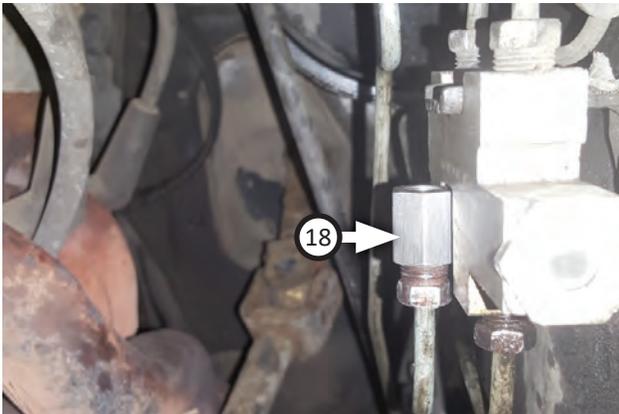
11. Install **union fitting (19)** to brake line that was removed from master cylinder.



12. Remove right front brake line from proportioning valve. This should be brake line closest to firewall.



14. Install **brake line (2)** to male fitting on solenoid and proportioning valve.



13. Install **union fitting (18)**; one side of adapter is  $\frac{3}{8}$ " thread and other side is  $\frac{7}{16}$ " thread. Factory brake line is  $\frac{7}{16}$ ".

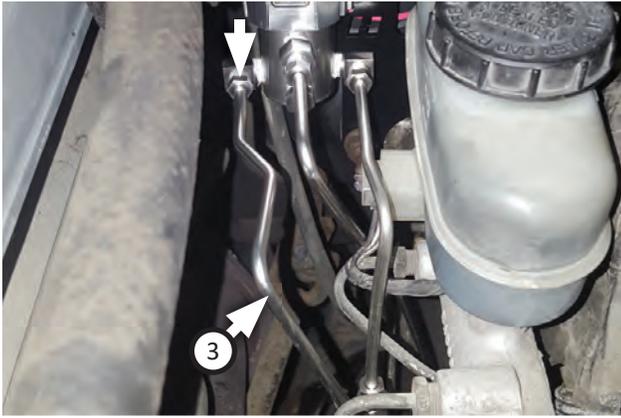


15. Install **brake line (4)**; left front brake line to left side of solenoid and union on factory left side brake line.



**NOTE:** Solenoid can swivel by loosening nut on top. Only hand tighten lines until they are all installed.

**Step instructions under following image.**



16. Install **brake line (3)**; right front brake line to right side of solenoid and union on factory right side brake line.

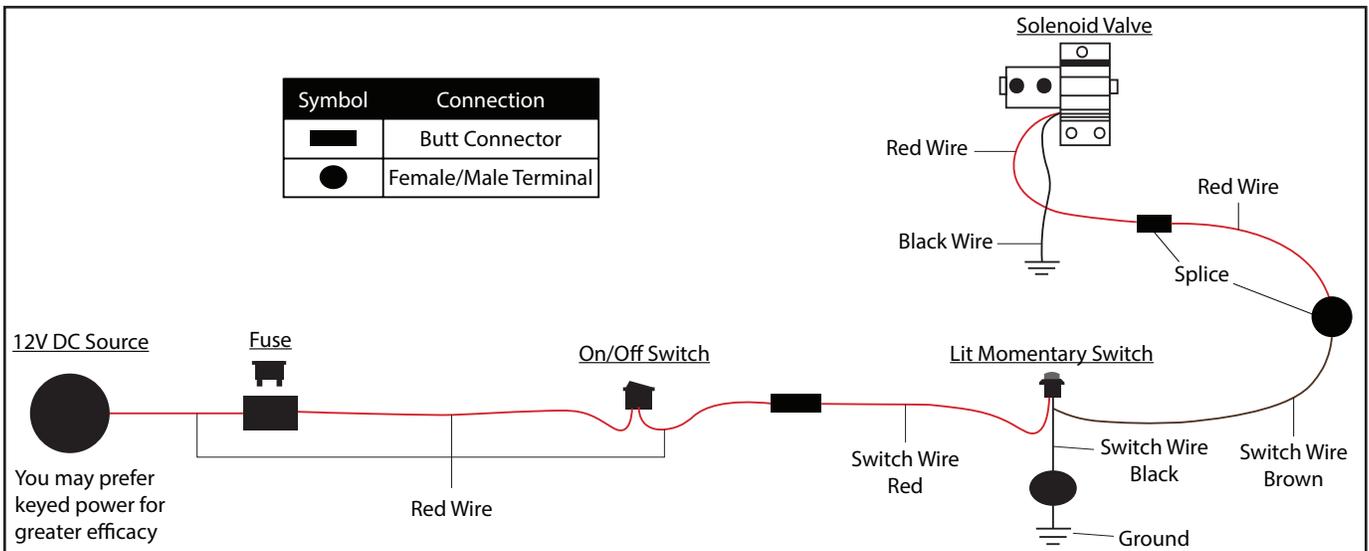
17. Once all lines have been installed, go back and tighten all connections with a flare nut wrench. Brake lines must be as tight as possible to prevent leaks. You may use two wrenches for leverage.

18. Perform factory recommended brake bleeding procedure.

The **Wiring Diagram** below illustrates how this kit is connected together. Steps 19-28 show one way to install Roll Control kit.

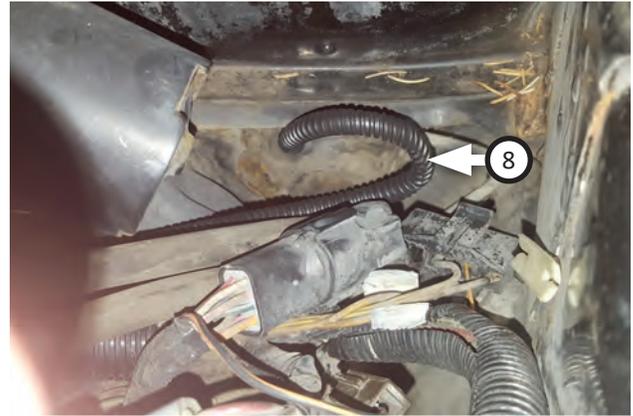
You may install kit differently on your vehicle according to your preference or build, just as long as your wiring matches diagram below, avoids any tangles, avoids heated and/or moving parts and you have easy access to switches once complete.

**WIRING DIAGRAM:**





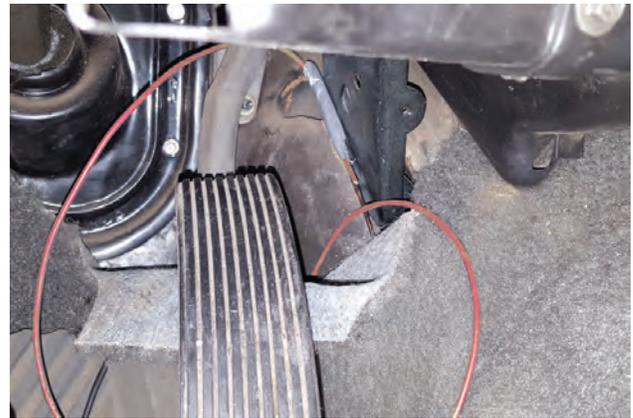
19. Ground solenoid to bracket using eyelet (13).



21. Make a small hole in rubber boot at firewall then draw power wire through it to inside of vehicle. Encase power wire with split sleeve (8).



20. Connect red wire (7) to power wire with splice connector (14) and trim just enough red wire to reach from solenoid to vehicle interior.



Step instructions under following image.

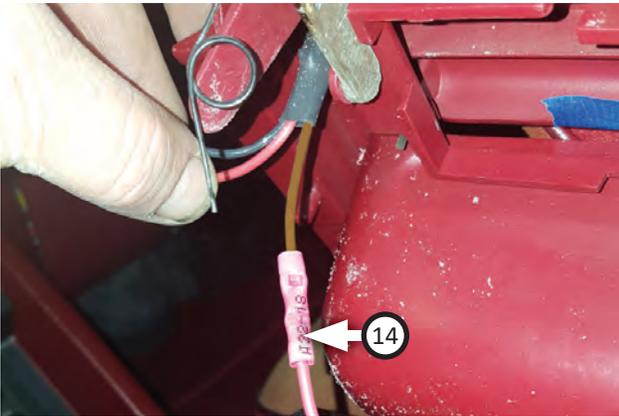


22. To mount switches on center console, pull carpet back then draw power wire through to center console as shown.



23. Drill and mount **On/Off switch (10)** and **lit momentary switch (9)** to center console as shown.

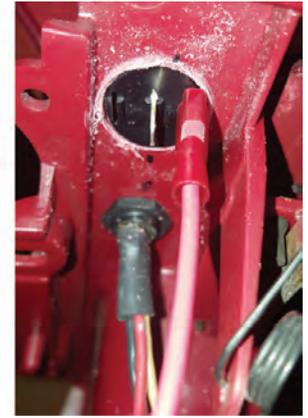
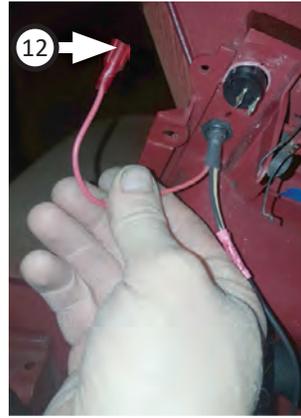
**NOTE:** This step is completed most efficiently using a step drill bit so you can check fitment at each "step" until hole is the correct size.



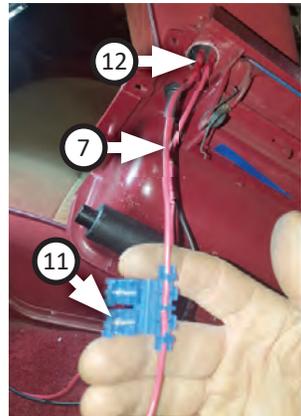
24. Use **splice (14)** to connect solenoid power wire (that was routed through firewall to center console) to brown wire on lit momentary switch.



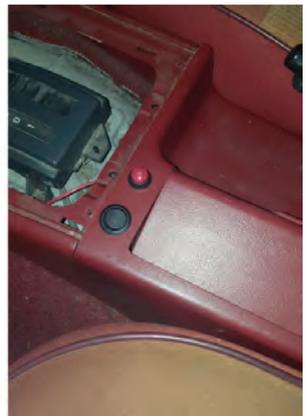
25. Extend momentary switch black ground wire with **splice connector (14)**, **black wire (6)** and **eyelet (13)**. Ground this wire to chassis (this kit was grounded at shifter).



26. Install **terminal (12)** on momentary switch red wire then plug it into On/Off switch.



27. Install **terminal (12)** to **red wire (7)** then plug it into on/off switch remaining post. Install **fuse holder (11)**.



28. Attach red wire to a power source using **tap connector (16)** if necessary.

## OPERATION INSTRUCTIONS:

### To actuate the Hurst Roll/Control system (BURNOUT):

29. With Traction Control/ESP OFF, fully depress and hold brake pedal.
30. Arm Hurst Roll Control system by depressing ON/OFF (arm) switch to "ON" position (Lit Momentary Switch should illuminate).

Complete next steps within 60 seconds.

31. Hold momentary switch down and keep it held down until step 37 below.
32. Release brake pedal. Front brakes will now be locked and rear wheels unlocked and free to spin.
33. Automatic Vehicles- sharply step on gas pedal.
34. Manual Vehicles- raise engine speed to a moderate level and smoothly but quickly release clutch.
35. Rear wheels should now be spinning while vehicle is stationary if preceding steps have been performed correctly.
36. Modulate gas pedal to control amount of wheel spin.
37. Release momentary switch and allow vehicle to "drive out" of burnout.
38. Be prepared to ease off on gas pedal and press brake pedal if necessary.
39. Disarm Hurst Roll Control system by depressing On/Off switch to "OFF" position (momentary switch should no longer be illuminated).

### To actuate Hurst Roll/Control system (LAUNCH CONTROL – Automatic Vehicles Only):

40. With vehicle staged fully, depress and hold brake pedal.
41. Arm Hurst Roll Control system by depressing On/Off (arm) switch to "ON" position (momentary switch should illuminate).

Complete next steps within 60 seconds.

42. Hold momentary switch down and keep it held down until step 45 below.
43. Release brake pedal. The front brakes will now be locked and rear wheels un-locked, free to be loaded.
44. Slowly and smoothly step on gas pedal to load torque converter and drivetrain just prior to wheel spin (this step may take some practice).
45. GO! Release momentary switch and modulate gas pedal as light turns green/flag drops/etc. to hard launch vehicle forward.
46. Be prepared to ease off on gas pedal and press brake pedal if necessary.
47. Disarm Hurst Roll Control system by depressing On/Off to "OFF" position (momentary switch should no longer be illuminated).

Congratulations, the installation of your **HURST Roll Control** is now complete!

