

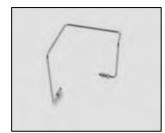
WORK SAFELY! For maximum safety, perform this installation on a clean, level surface and with the engine turned off. Place blocks or wedges in front of and behind both rear wheels to prevent movement in either direction.

CAUTION: To avoid any possibility of bodily injury or damage to vehicle, do not attempt installation until you are confident that the vehicle is safely secured and will not move.

WARNING:

The Hurst Roll Control is designed primarily for high performance race cars to momentarily (maximum of 60 seconds) keep the front brakes engaged while staging for a drag race. It will not safely function as a long term brake holding device. 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. The Hurst Roll Control is recommended for use during closed track events and competitive driving venues **ONLY!**

PARTS



S. Steel Brake Line To Master Cylinder



Solenoid Valve



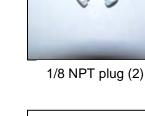
1/4" Lock Washer (2)



S. Steel Brake Line To Front Brake Line

1/4-20 Nut (2)

1/4-20 Nut (2)





1/4 Flat washer (2)



Female Terminal (4)



S. Steel Adapter (2)



S. Steel Bracket



Lit Momentary Switch



Scotchlok™ Connector





Rocker Switch

4A Fuse



18 ga. Wire

5/16" Connectors (3)





Convoluted Cover

Butt Connectors (3)

TOOLS



7/16", 11mm, 13mm, 16mm Wrench

Wire Stripper/Crimper



Ratchet / Extension

Electrical Tape



7/16", 9/16", 13mm Socket

Loctite®

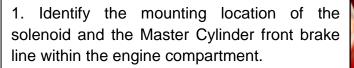


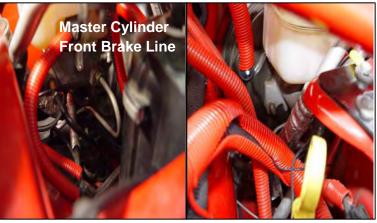




Teflon® Tape

BRAKE LINE INSTALLATION







2. Attach mounting bracket to solenoid as shown in step 2 and 3. Apply a few drops of high-strength thread locker (Permatex red or equivalent) to bolt threads. Place one 1/4-20 bolt, 1/4" flat washer, 1/4" lock washer, and 1/4-20 nut on each hole and fully tighten to 20Nm (15 ft-lbs).

TOOLS: 7/16" Wrench, 7/16" Socket, Ratchet



3. Tighten the provided adapters and plugs to solenoid as shown.

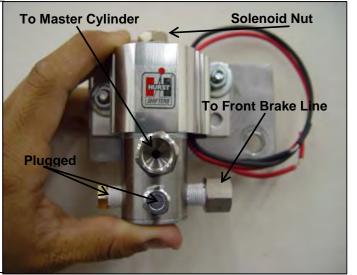
TOOLS: 16mm Wrench, 11mm Wrench

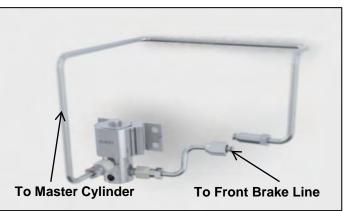
NOTE: Use PTFE thread tape to ensure a leak-proof seal.

CAUTION: Using an excessive amount of thread tape can contaminate the solenoid valve or brake system. Use tape sparingly. If the solenoid body loosens while tightening adapters/plugs, first, make sure ports are correctly aligned and then use a 9/16" socket to re-tighten top solenoid nut.

4. Ensure that the new brake line routing is understood prior to installation. However, DO NOT attach lines to solenoid at this time.

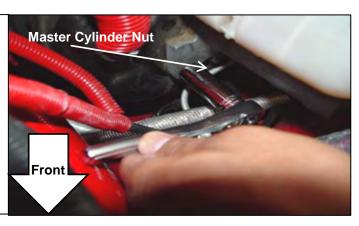
NOTE: Using PTFE thread tape on flare fitting threads is generally not recommended. However, if used do not cover any portion of line opening with tape.





5. Remove left Master Cylinder nut from Master Cylinder.

TOOLS: 13mm Socket, Ratchet, Extension



6. Add clean rags under Master Cylinder in order to keep fluid from spilling on vehicle. Unscrew front brake line (right side, closest to driver). Remove front brake line from brake line clip, located on the side of the strut tower.

TOOLS: 13mm Wrench, Clean rags

NOTE: Avoid spilling brake fluid, especially on painted and/or plastic surfaces. Remove any and all excess brake fluid immediately with a clean rag.

7. Move flex line from under Master Cylinder front brake line so it won't prevent the Master Cylinder front brake line from screwing into the Hurst brake line. Unscrewing Master Cylinder rear brake line might be required to move flex line.



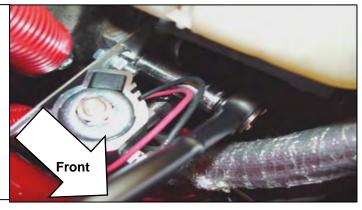


8. **Recommended Installation Method:** Thread the Hurst Roll Control brake line into the OEM front brake line, however do not completely tighten fitting at this time to allow for minor adjustments. Thread the Hurst Roll Control brake line into the adapter, finger tight. Push OEM brake line down to allow mounting bracket hole installation onto the Master Cylinder stud. (Slight adjustment (bending/flexing) of lines may be required for proper alignment). Once line is aligned, tighten all flare fittings.DO NOT OVER TIGHTEN AS THIS WILL CAUSE LEAKS.

TOOLS: 13mm Wrench (Brake Line nut) 16mm Wrench (Adapter)
 Front

9. Thread nut back onto master Cylinder stud, tighten Master Cylinder nut to 25Nm (18 ft-lbs).

TOOLS: 13mm Socket, Ratchet, Extension



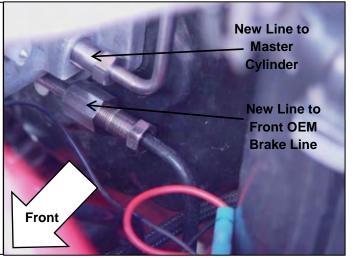
10. **Recommended Installation Method:** Thread the Hurst Roll Control brake line into the Master Cylinder, however do not completely tighten fitting at this time to allow for minor adjustments. Thread Hurst Roll Control brake line into the adapter, finger tight. (Slight adjustment (bending/flexing) of lines may be required for proper alignment). Once line is aligned, tighten all flare fittings. DO NOT OVER TIGHTEN AS THIS WILL CAUSE LEAKS.

TOOLS: 13mm Wrench (Brake Line nut) 16mm Wrench (Adapter)

11. BEFORE OPERATING VEHICLE:

- Bleed **ALL** (back, then front on both sides) brakes by following manufacturer's service manual guidelines (front brakes will usually have the most air).
- Make sure all fittings are fully secured.
- Verify no leaks are present, THERE SHOULD BE NO LEAKAGE. The brake pedal should be firm with a solid feel. If brake pedal slowly compresses to the floor, there is a brake fluid leak and/or air in system. Check and re-bleed if necessary. Do not operate vehicle if leaks and/or air in the lines is present no matter how minor.





WIRING INSTALLATION

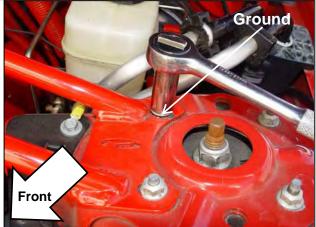
NOTE: The Hurst Roll Control Solenoid Valve is designed for 12V DC operation only. For added safety, two switches (arming and activation) are provided in this kit. Following the wiring recommendation properly will prevent accidental engagement of the Hurst Roll Control system.

Disconnect negative (-) battery terminal. If more wire is needed then what is provided, use insulated 18 AWG automotive wire to assure good electrical connection and conductivity. Wiring should be as neat and direct as possible. DO NOT connect wiring in such a fashion as to apply added stress or excessive stretch to wires. Use convoluted sleeve to protect wires, keep wiring away from sharp edges/corners, hot engine, and exhaust components. Join all splices by using the provided connectors/terminals and wrap each splice/connection with an adequate grade of electrical tape. A fuse holder with a 4-amp fuse is provided (see wiring diagrams for wiring details on pages 8-9) and should be incorporated into the wiring circuit. The fuse can protect the electrical system in the event of a short circuit.

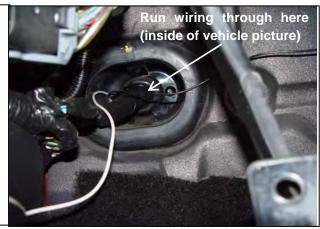
12. Suggested Solenoid Ground: Attach 5/16" eyelet connector to black wire of solenoid and ground wire to bolt on strut tower or another appropriate grounding location.

TOOLS: 13mm Socket, Ratchet, Extension

(See wiring diagrams on pages 8-9.)

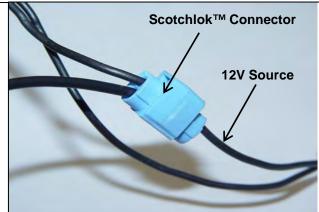


13. Pass wiring through existing access points (one is located on the driver's side firewall) by going through the grommet of the hood latch release cable.



14. Suggested 12V Source: Tap into a 12V accessory/cigarette lighter socket wiring harness connection with provided Scotchlok connector or another appropriate 12V source.

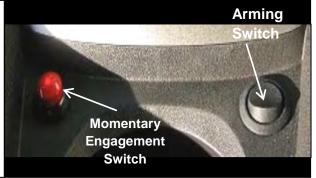
(See wiring diagrams on pages 8-9.)



15. Mount switches in desired location (usually within reach of the driver) and ground momentary switch to an appropriate grounding location with provided 5/16" eyelet.



16. Reconnect battery and turn ignition switch to the "ON" position. While still in park and NOT depressing your brake pedal, activate and engage your Hurst Roll/ Control system (make sure you can hear the clicking of the solenoid) several times and check fuse. If fuse is burned, check all electrical connections for a short and correct any problems immediately.



CAUTION: Before driving vehicle, completely check the brake system for proper operation. Check all connections under pressure for leaks and be sure that you have a good solid brake pedal (bleed brakes again to get a firmer brake pedal). On a flat level surface, Test the Roll Control system several times to be sure that it operates correctly. Be sure that the proper two wheels have the brakes engaged when the Roll Control is actuated and that all four wheels are free when the Roll Control switch is released.

Basic Switch Operation

System Arming: Turn on rocker switch, the momentary switch will light to indicate the Hurst Roll/Control system is ready or "hot".

Solenoid Engagement: Depress and hold momentary switch (Do not hold for more than 60 seconds).

See "Hurst Roll Control Operation" for competition use.

Caution: Holding the solenoid valve closed for more than 60 seconds can cause the fuse to burn-out, permanently damaging the solenoid valve, and/or result in other damage. De-activate (switch off) arming switch when the Hurst Roll Control is not in use to prevent accidental engagement.

17. Before executing a burnout, turn OFF your Traction Control (At a complete stop, press Traction Control button - "TCS OFF" dash light should appear to indicate Traction Control is off.

Note: Turn ON your Traction Control / AdvanceTrac when not using the Hurst Roll Control.

Warning: Performing a burnout without the Traction Control / AdvanceTrac off can damage the vehicle. Also, avoid excessive loading of the clutch, flywheel, and other drivetrain components.



OPERATION INSTRUCTIONS

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

1. With the Traction Control System (TCS) OFF, fully depress and hold the brake pedal.

2. Arm the Hurst Roll Control system by depressing the rocker (arm) switch to the "ON" position (the engage button switch should illuminate).

Complete the next steps within 60 seconds.

3. Hold the illuminated button switch down and keep it held down until step 7 below.

4. Release the brake pedal.

The front brakes will now be locked and the rear wheels un-locked and free to spin.

5. Automatic Vehicles- sharply step on the gas pedal.

Manual Vehicles- raise the engine speed to a moderate level and smoothly but quickly release the clutch.

The rear wheels should now be spinning and the vehicle should be stationary if the above steps have been performed correctly.

6. Modulate the gas pedal to control the amount of wheel spin.

7. Release the illuminated button switch and allow the vehicle to "drive-out" of the burnout.

8. Be prepared to ease off on the gas pedal and press the brake pedal if necessary.

9. Disarm the Hurst Roll Control system by depressing the rocker switch to the "OFF" position (the engage button switch should no longer be illuminated).

10. Press the Traction Control System (TCS) button again and/or restart vehicle to turn on your Traction Control system.

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

1. With the vehicle staged fully, depress and hold the brake pedal.

2. Arm the Hurst Roll Control system by depressing the rocker (arm) switch to the "ON" position (the engage button switch should illuminate).

Complete the next steps within 60 seconds.

3. Hold the illuminated button switch down and keep it held down until step 6 below.

4. Release the brake pedal.

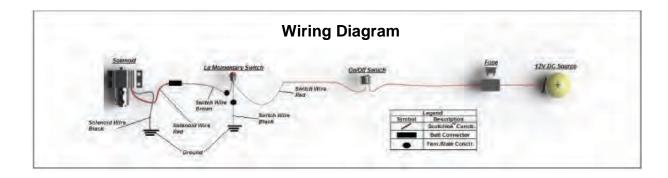
The front brakes will now be locked and the rear wheels un-locked and free to be loaded.

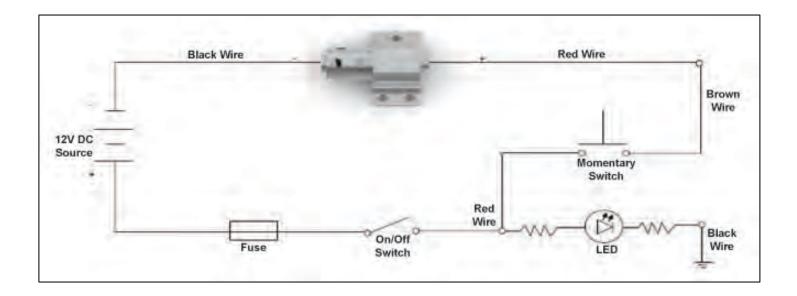
5. Slowly and smoothly step on the gas pedal to load the torque converter and drivetrain just prior to wheel spin (this step may take some practice).

6. GO! - Release the illuminated button switch and modulate the gas pedal as the light turns green/flag drops/etc. to hard launch the vehicle forward.

7. Be prepared to ease off on the gas pedal and press the brake pedal if necessary.

8. Disarm the Hurst Roll Control system by depressing the rocker switch to the "OFF" position (the engage button switch should no longer be illuminated).





IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

Technical Service

Hurst Performance maintains a highly trained technical service department to answer your technical questions, provide additional product information and offer various recommendations.



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