JPC Racing
301 Serendipity Drive
Millersville, MD 21108
www.JPCracing.com
410 729 0005
customerservice@jpcracing.com
S550 Line Lock Installation Instructions

WARNING:

- *Failure to disconnect negative battery lead could result in damage to your car's electrical system*
- *When raising a car to access the undercarriage, always use a jack stand*
- *Brake fluid can damage your vehicle's painted surfaces*
- *Always check brake lines for leaks*
- *Always test brake system before you road test the car*

Solenoid Assembly

(Pic 1)

1. Before removing any parts from the vehicle, we will begin by assembling the line lock solenoids. Both line lock solenoids will be assembled the same way.

2. Install the supplied *brass* fitting into the **SILVER** side of the line lock solenoid. The fitting uses a 1⁄8 NPT fitting to thread into the solenoid. This will require teflon tape or thread sealant (not included) to allow for a proper seal. When tightening the brass fitting, use two wrenches to ensure the solenoid doesn't spin.

(Pic 2)

3. Install the supplied *steel* 1⁄8 NPT to 3AN fitting into the **BRASS** side of the solenoid. This will also require thread sealant to have a proper seal.

Solenoid Installation

1. Safely jack the vehicle and set the car on jack stands. Disconnect the battery in the vehicle and set the emergency brake prior to beginning the installation.
2. Remove the factory brake lines from the front two wheels of the vehicle.

(Pic 3)

3. Insert the factory hard line into the brass fitting on the top of the solenoid.
4. Mount the line lock solenoid securely to the frame rail using the supplied self-tapping screws.

(Pic 4)

5. Using one of the two supplied 5/16 ring terminals, ground the solenoid using one of the factory brake line bracket bolts as seen in Pic 4.
6. Connect the stainless-steel brake line to the steel fitting on the bottom side of the line lock solenoid.
7. Connect the other side of the stainless-steel brake line to the caliper. This will use the supplied banjo bolts and washers that come with the kit.

(Pic 5)

8. Once all the lines are mounted, they can be tightened into position. Ensure that the stainless-steel brake line is not coming into contact with any of the suspension components during its range of movement with the suspension. This procedure can be used for both sides of the vehicle.

9. To bleed the brakes, the key must be in the run position. Bleed the brakes until the car has a good firm pedal. If you have any questions on how to properly bleed your brakes, we recommend contacting a professional installer for assistance.

10. Check system for leaks.

Wiring Installation (Wiring schematic on last page)

1. For your convenience we have attached a wiring diagram, which is located on the last page of the instructions. Remove the panel to the right side of the steering column which will be housing the switch at the end of this section. This is accomplished by pulling lightly on the panel. If you choose to run your switch in another location, we recommend removing the panel first to allow you to locate all your wires to their destination. For this installation however, we will be referencing the panel to the right of the steering column by the driver's knee.

(Pic 6)

2. Run the main power wire for the line lock kit from the battery junction box. Use the larger 16 gauge wire with the eyelet into the cabin of the car. There is a grommet on the firewall that can be used to route the wire into the cabin. If this grommet is unavailable to you, a new grommet will need to be installed. ALWAYS USE A GROMMET WHEN ACCESSING THE CABIN.
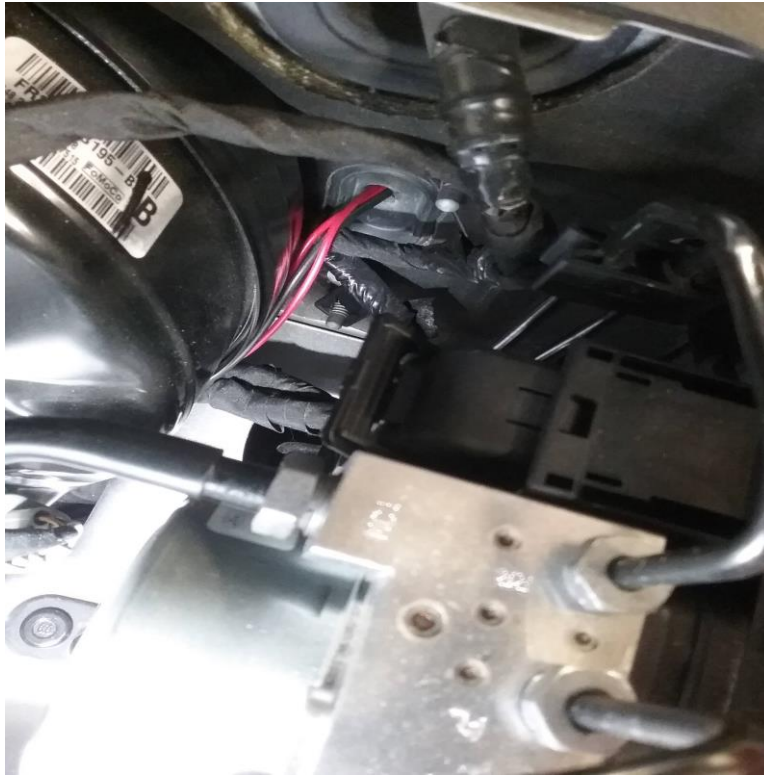
(Pic 7)

3. Using the supplied 16 gauge butt connectors, install the supplied fuse holder inline with the 16 gauge wire in your preferred location.
4. Using the supplied 18 gauge wire, connect to the remaining available wire on the passenger side line lock solenoid. This will use the supplied 18 gauge butt connector. Typically, during this installation, we choose to route the wires along the factory harness in the front bumper area. Your routing may need to differ due to some aftermarket modifications.
5. The wire for the passenger side line lock solenoid will also need to be routed into the cabin of the car using the grommet mentioned earlier.

(Pic 8)

6. The driver's side solenoid will also be connected with the supplied 18 gauge wire using the remaining supplied 18 gauge butt connector. This wire will be routed through the grommet on the firewall as well.

7. Using the supplied diode, we will need to connect to the factory wiring on the brake pedal. The wire we will need to access is a **PURPLE WIRE w/ WHITE STRIPE.** There are two wires on this connector with the same color; either of these can be used for the installation. Connect the **WHITE** side of the diode wire to the **PURPLE WIRE w/ WHITE STRIPE** using the supplied scotch lock.

(Pic 9)

8. Mount the switch to the panel we removed earlier. This switch will require a ½" hole to be fitted properly into the panel.

9. Connect the two 18 gauge wires that are coming from the line lock solenoids and the red side of the diode wire to one side of the switch. This will use a larger eyelet connector.

10. Connect the 16 gauge wire to the remaining side of the switch using the 16 gauge eyelet connector.

11. Install the switch into the panel as seen below. The supplied cover can also be installed for a better looking installation.

OPERATION

The operation of the line lock system is simple, follow the steps below.

1. Disable Advance Track – This can be done holding the brake pedal down and holding the traction control button for 8-10 seconds. This can be done when the car is started.
2. Once Advance Track is disabled, press the brake pedal down firmly.
3. Arm the line lock by activating the switch. When the switch is activated, the brake lights should illuminate.
4. Release the pressure on the brake and initialize your burnout (automatics will just be able to press the gas, stick shift cars will need to drop the clutch).
5. When the burnout is complete, deactivate the line lock switch. Enjoy!

Wiring Diagram
S550 Line Lock

Brake

Purple Wire w/ White Stripe

Scotch Lock

Switch

Red

Diode

White

Red 16g Wire

Firewall

Butt Connector

Fuse Holder

Butt Connector

Fuse Panel

Ground

Red 18 Gauge

Red 18g

Ground

Solenoid

Solenoid