SUMMIT RACING
STAGING LOCK INSTALLATION KIT
Part No. SUM-G3904

Thank you for purchasing the Summit Racing Staging Lock Installation Kit. While this installation kit is designed to work with most brands of roll controls, line lock systems, and launch controls, we highly recommend our Summit Racing Staging Lock System (part number SUM-760000) if you don't currently have a line lock system installed on your vehicle.

Follow the steps outlined in this guide to ensure that your line lock system is installed correctly. This universal installation kit is designed to properly install most brands of line lock systems on most American-made vehicles. Although we have attempted to include all of the fittings and brake lines required for installation, some applications may require additional components to complete the installation.

Please read all of the enclosed information before beginning any work. These instructions contain warnings that must be observed; otherwise, your vehicle may be rendered inoperable. If you have any questions regarding installation, contact the Summit Racing Equipment Technical Department at 1-330-630-0240, Monday through Friday from 9 am to 9 pm EST.

Parts Checklist

You should have received the parts listed here. Please verify the quantities of each component received.

- ☐ (2) 3/16" x 1/8" male inverted flare adapters
- ☐ (2) 3/16" x 1/4" male inverted flare adapters
- ☐ (2) 3/16" x 5/16" male inverted flare adapters
- ☐ (2) 3/16" x 9/16"-18 male inverted flare adapters
- ☐ (2) 3/16" x 9/16"-20 male inverted flare adapters
- ☐ (2) 3/16" unions
- ☐ (1) 3/16" plug
- ☐ (1) 3/16" x 12" steel brake line
- ☐ (2) 3/16" x 20" steel brake lines
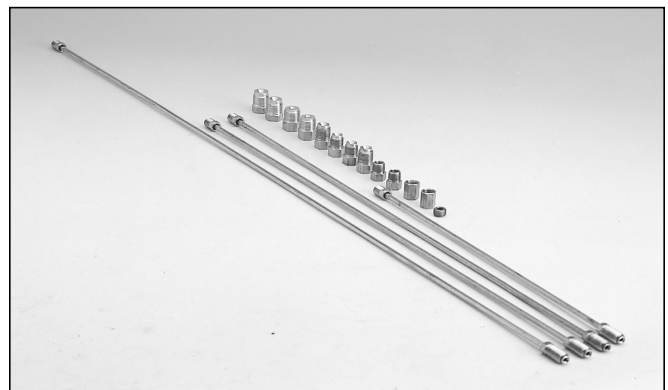- ☐ (1) 3/16" x 30" steel brake line

If you are missing an item or a part was received in error, please contact the Summit Racing Customer Service Department at 1-800-517-1035, 24 hours a day, 7 days a week, before beginning any work.

Installation Notes

- Line lock systems should only be installed on the front braking system and in a manner that does not interfere with normal brake operation.
- A line lock system must be mounted securely to prevent brake line flex and fatigue and away from moving parts and exhaust components.
- Do not use copper tubing under any circumstances! Use only SAE-approved seamless steel tubing with double flare ends of the correct size and length.
- Do not cut brake lines.
- When bending the brake lines, use an appropriate size tubing bender to avoid kinking or crushing the tubing.
- Use thread sealer on all fittings, except inverted flare connections.

  CAUTION: *Use thread sealer sparingly to avoid contaminating the solenoid and/or braking system.*
- Line fitting wrenches are recommended to tighten all brake line fittings.
- Do not allow dirt, moisture, or any other contaminants to get into the lines or fluid.

Recommended Tools

☐ Line fitting wrenches	☐ Tubing bender
☐ Teflon® tape	☐ Thread sealer

Recommended Components

☐ **Summit Racing Staging Lock System** (part number SUM-760000). The Summit Racing Staging Lock System will keep a race car's front brakes engaged to keep your car out of the staging lights until you're ready to launch. Each Staging Lock System comes with a stainless steel solenoid valve, activation switch, indicator light, inline fuse holder, mounting hardware, and complete instructions.

☐ **Tubing Bender** (part number SUM-900675). The Summit Racing tubing bender can accurately bend 1/4", 5/16", and 3/8" tubing from 0-90 degrees and includes calibrated markings for precise left and right hand bends.

Brake Line Installation

Refer to Diagram

Step One:

Install the proper size male fittings from the Staging Lock Installation Kit into the inlet port and selected outlet ports of the line lock solenoid valve. Elbow fittings may be substituted where necessary (not included). Seal any unused outlet ports with plugs before continuing.

NOTE: Choose which outlet ports to use after you decide where to install the solenoid valve. Mount the solenoid valve in an easily accessible area so installing the brake lines will not be difficult.

CAUTION: Do not clamp the Staging Lock solenoid valve in a vise; using a vise may damage the solenoid valve. Do not over-tighten fittings.

Step Two:

After mounting the line lock solenoid valve as close to the brake lines as possible and away from headers and exhaust manifolds, exhaust pipes, and steering and suspension components, follow the brake lines from the front wheels all the way back to the master cylinder to determine which line is used for the front braking system. Remove the front brake line between the proportioning valve and the front brake distribution block.

Step Three:

Install a new steel brake line between the proportioning valve and the line lock solenoid valve, and then connect the vehicle's original front brake line to the outlet port of the solenoid. Use the appropriate-sized brake lines and fittings to make the connections.

Step Four:

On some applications it may be necessary to permanently remove one brake line from the proportioning valve. If this is required, plug the line with the proper size inverted flare plug.
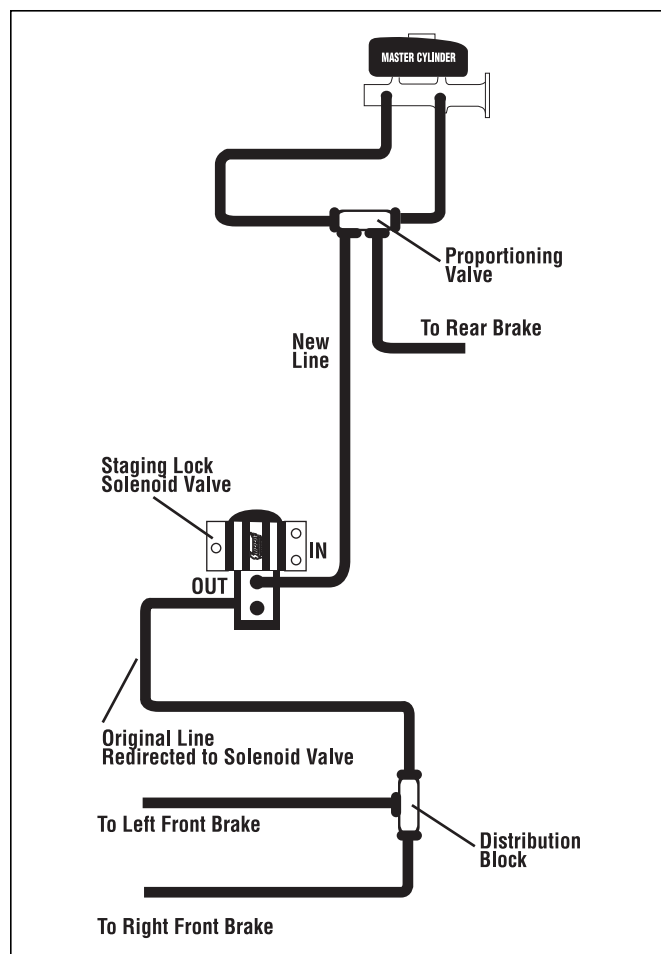
CAUTION: Be sure to use an inverted flare plug only. Use of an NPT pipe plug will cause thread damage, leakage, and improper operation of the vehicle braking system and the line lock system.

Step Five:

When the installation of the line lock system is complete, follow the vehicle manufacturer's recommended procedure for bleeding the brakes. Be sure to check all connections for leakage under pressure; all leaks must be eliminated before continuing. Before driving the vehicle, verify the brake system is operating correctly and that the brake pedal is solid.

Step Six:

Using the line lock manufacturer's operating instructions, test the line lock system several times to ensure that it is functioning correctly. Verify that the correct wheels have the brakes engaged when the line lock system is engaged and that all four wheels rotate freely when the system is disengaged.