



Complete Brake Line Installation Instructions

Part #: RT31051 – RT31056

NOTE: Ensure that all components in kit are accounted for.

Important: Prior to beginning, it is critical to observe all applicable safety precautions, including but not limited to raising & supporting the vehicle and the wearing of appropriate eye and hand protection. Brake fluid can irritate eyes and skin. When replacing brake system hydraulic components, use great caution to avoid contaminants from entering the system. Always use fresh brake fluid from an unopened container. Gather all necessary tools and vehicle-specific reference materials prior to beginning work. In some anti-lock brake (ABS) equipped vehicles, a scan tool may be required to bleed air from the system following brake line replacement. We also suggest protecting any painted surfaces near the brake lines as the brake fluid will corrode the paint or clear coat if it comes in contact.

The EZ-FIT® brake lines in this kit will appear different than the OE lines on your vehicle. The EZ-FIT® lines are engineered to match the length, flare style, and hardware size of the factory brake lines. The NiCOPP® (nickel-copper alloy) construction allows the lines to be easily and quickly formed by hand for fast installation while being corrosion-proof. The fittings are black-oxide coated, providing 2x the corrosion protection of OE fittings. Some OE lines may use flexible hose sections instead of solid lines. The lines in this kit will use solid lines instead of flexible hose.

Each line in this kit includes a tag with a part number that corresponds to its location on the vehicle. Use the guide on the back of this sheet to provide the location of each part number. Due to the similarity of the brake fittings, it is imperative to identify the individual brake line locations prior to disconnection.

Before removing the existing lines from the master cylinder, ABS module, and the proportioning valve, identify and clean the port locations. It is imperative that the brake lines are installed in the correct port. Improper installation will result in a poor or non-functioning hydraulic system. We suggest replacing one line at a time whenever possible to avoid any confusion. Once the lines are removed, cover the hole(s) with tape until the replacement line is ready for final installation.

To avoid needing to bench bleed the master cylinder we suggest the reservoir be full and the cap be tightened. This will slow any fluid that may drip out of the holes and give you more time to install the replacement lines before the reservoir drains completely. If the reservoir empties, bench bleeding the master cylinder is required.

Route each EZ-FIT® brake line identical to the factory lines, snapping them to any clips the factory lines were snapped into. Take care to not kink the brake lines and ensure they don't make contact with the chassis or hot/moving parts. Bend the brake lines as few times as possible when forming them to the proper shape. Excessive bending will result in the brake lines becoming brittle and prone to failure. Thread the fittings in by hand and tighten to 18 ft. lbs.

Use your service manual's bleeding procedure to bleed the hydraulic brake system. Check each fitting for signs of leakage after installation is complete.

Rt Off-Road is a brand of Crown Automotive Sales Co., Inc. While every attempt is made to ensure that the information contained in these instructions are correct, no liability can be accepted by the authors for loss, damage or injury caused by any errors in, or omissions from the information given. All service should be performed by qualified mechanics. Crown Automotive Sales Co., Inc. cannot be held responsible for any mechanical work performed. Standard and accepted safety precautions and equipment should be used in every procedure.

RT Off-Road Kit Number	Master Cylinder Front Port to Prop. Valve	Master Cylinder Rear Port to Prop. Valve	Prop. Valve to Left Front Brake Hose	Prop. Valve to Right Front Brake Hose	Prop. Valve to Rear Axle Brake Hose	Left Rear Brake Line on Rear Axle	Right Rear Brake Line on Rear Axle
RT31051	6977280S	2977290S	6977450S	6977700S	6977660S	6977430S	6977480S
RT31052	6977280S	2977290S	6977450S	6977700S	6977660S	6977400C	6977490C
RT31053	6978770C	6977810C	6977360C	Upper Section: 6977200C Union: BLU-3 Lower Section: 6977950C	Front Section: 6977730C Union: BLU-8 Rear Section: 6978740C	6978760C	6978750C
RT31054	6977920C	6977870C	6978780C	6978160C	6977780C	6977430C	6978690C
RT31055	6977880C	6977880C	6978050C	Upper Section: 6977430C Union: BLU-3 Lower Section: 6978080C	Front Section: 6977980C Union: BLU-3 Rear Section: 6978110C (Long Fitting Should Thread into Rear Brake Hose)	6977360S	6978690C
RT31056	6977290S	6977280S	6978790C (Long Fitting Should Thread into Brake Hose)	6978170C (Long Fitting Should Thread into Brake Hose)	6979860C	6978710C	6978700C