

ASSEMBLY INSTRUCTIONS

FOR

WILWOOD INTERNAL PARKING BRAKE CABLE KIT

FOR USE WITH WILWOOD COMBINATION PARKING BRAKE (CPB) KITS

BASE PART NUMBER

330-10993

**DISC BRAKES SHOULD ONLY BE INSTALLED BY SOMEONE
EXPERIENCED AND COMPETENT IN THE INSTALLATION AND
MAINTENANCE OF DISC BRAKES
READ ALL WARNINGS**

WARNING

IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY BRAKE COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS BRAKE COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED BRAKES ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING WILWOOD AT (805) 388-1188, OR VISIT OUR WEB SITE AT WWW.WILWOOD.COM. USE OF WILWOOD TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. **YOU**, OR THE PERSON WHO DOES THE INSTALLATION MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION.

RACING EQUIPMENT AND BRAKES MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR.



Need Additional Information?
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Section on Our Web Site.



WARNING

**DO NOT OPERATE ANY VEHICLE ON UNTESTED BRAKES!
SEE MINIMUM TEST PROCEDURE WITHIN**

ALWAYS UTILIZE SAFETY RESTRAINT SYSTEMS AND ALL OTHER AVAILABLE SAFETY EQUIPMENT WHILE OPERATING THE VEHICLE

IMPORTANT • READ THE DISCLAIMER OF WARRANTY INCLUDED IN THE KIT

NOTE: Some cleaners may stain or remove the finish on brake system components. Test the cleaner on a hidden portion of the component before general use.

Important Notice - Read This First

Before any tear-down or disassembly begins, review the following information:

- Wilwood rear brake kits are not supplied with parking brake cable hardware or adapters.
- Due to OEM production differences and other variations from vehicle to vehicle, the fastener hardware and other components in this kit may not be suitable for a specific application or vehicle.
- It is the responsibility of the purchaser and installer of this kit to verify suitability / fitment of all components and ensure all fasteners and hardware achieve complete and proper engagement. Improper or inadequate engagement can lead to component failure.
- We recommend using an anti-seize lubricant on all aluminum nuts before tightening.

Photographic Tip

Important and highly recommended: Take photos of brake system before disassembly and during the disassembly process. In the event, trouble-shooting photos can be life savers. Many vehicles have undocumented variations, photos will make it much simpler for Wilwood to assist you if you have a problem.

Parts List

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	330-10993	Parking Brake Cable	1
2	300-11637	Cable Clamp	6

General Information

- *Installation of this kit should **ONLY** be performed by individuals experienced in the installation and proper operation of disc brake systems.* Prior to any attempt to install this kit, please check the following to ensure a trouble free installation.
- Inspect the contents of this kit against the parts list to ensure that all components and hardware are included.
- If you have any questions, please call our customer service department at (805) 388-1188 or e-mail for technical assistance to support@wilwood.com.

Installation Instructions

IMPORTANT:

- To ensure maximum performance from your parking brake system, the cables must be routed as straight as possible. Bends in the cable can significantly reduce efficiency and thus reduce pull force at the brake. Tight bends must be avoided with a minimum recommended bend radius of 6" to 8".
- Cables should be properly restrained to prevent "straightening" of bends when tension is applied. Restrain movement of cable by affixing the cable sheath to body or chassis by fitting cable clamps at various points over the length of cable or by using original equipment cable attachments points. The clamping method chosen will require that cable sheath be held tightly without movement, crushing or causing interference to the internal cable.
- Cables must be initially pre-stretched by multiple applications of the brake handle, then re-adjusted to correct tension.

- Install Wilwood CPB brake kit per its instructions
- Uncoil parking brake cable and lay out flat, Figures 1 and 2.
- Starting with either side, remove parking brake cable from cable cover. Grasp ball end and pull cable completely out of the cable cover, Figure 3.
- Set out both cables the length of vehicle. Make sure that cable ends are toward rear of vehicle
- Route the cables forward tracing the OEM cable route exactly. **Carefully route lines to prevent contact with exhaust or moving suspension, brake or wheel components.** Wilwood cable kits are designed for many different vehicle applications and it's the installer's responsibility to properly route and ensure adequate clearance and retention for parking brake cable components. Use OEM cable clamps or included clamps (2) to secure cable to vehicle chassis or frame.

Installation (Continued)



Figure 1

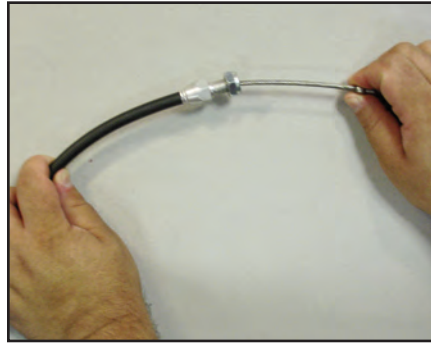


Figure 2

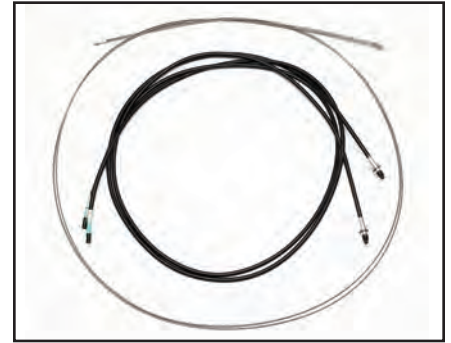


Figure 3

- Repeat the previous steps from the beginning on the other side of the vehicle. Continue with the installation after you have both cables routed forward.

- Slide the Housing End Adjuster over the two inner cables, until it bottoms out against the cable covers, Figure 5. Remove tape from cable covers and slide ferrules into the Housing End Adjuster, Figure 6 and 7. **NOTE:** Put a little red Loctite® 271 on ferrule before inserting to help hold it in position.

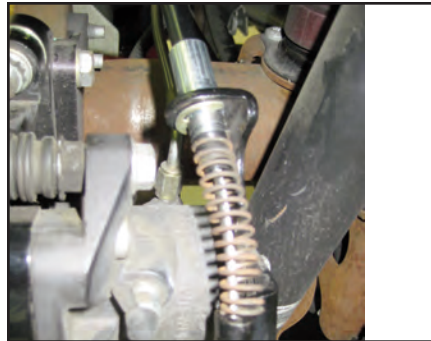


Figure 4

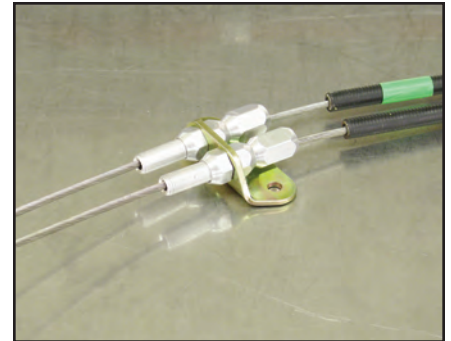


Figure 5

- Loosen all four setscrews on the top of the Cable Block assembly enough to allow the inner cable to slide through, Figure 8. Slide both inner cables through cable block and snug down setscrews, Figure 9.

- Attach Cable Block to equalizer or hand brake handle by sliding Cable Block clevis over either the equalizer or the handle attachment point. Push clevis pin completely through the holes in the clevis. Slide washer over the clevis pin and insert cotter pin, but do not bend over, Figure 10.

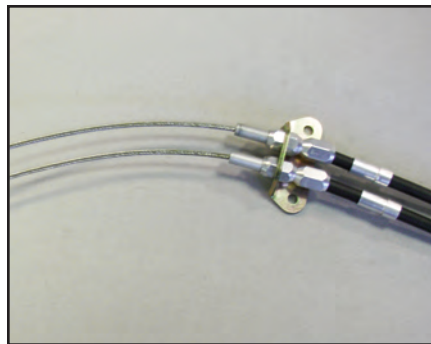


Figure 6

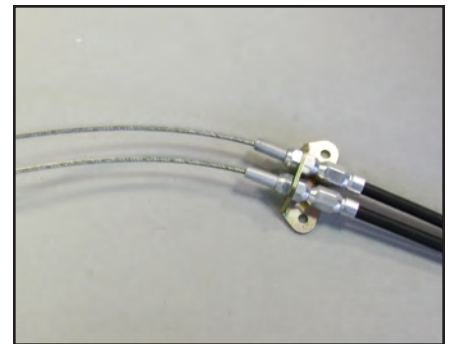


Figure 7

- Remove slack from inner cable by loosening setscrews, pulling the inner cables through the block with pliers and tightening setscrews, Figure 11.

- Final adjustments are performed at the threaded portion of the block assembly. The housing end adjuster can also provide additional tension adjustments.

- Setting the parking brake. The CPB caliper is a self-adjusting unit, it will require the installer to do the initial adjustment as outlined below.

- From inside the vehicle; Apply light to moderate pressure on the brake pedal and hold. Cycle the parking brake lever on and off until the caliper adjusts to the rotor until it no longer gets tighter.

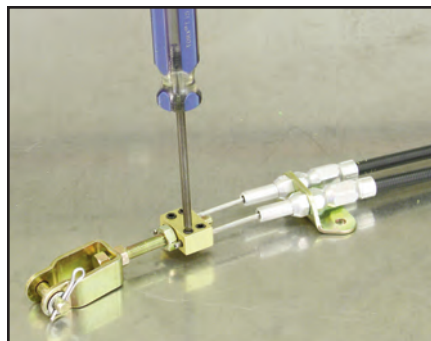


Figure 8

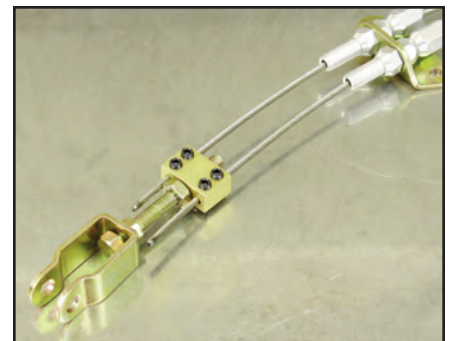


Figure 9

Installation (Continued)

- After bleeding and bedding the brakes per the brake kit installation instructions, carefully test the holding power of the parking brakes. Test parking brake in a safe area, first on a flat surface by pushing on the vehicle, then on a slight incline by applying and releasing the handle multiple times. Please reference the minimum test procedure below. If further adjustments are necessary, please repeat the above referenced procedure and test again.

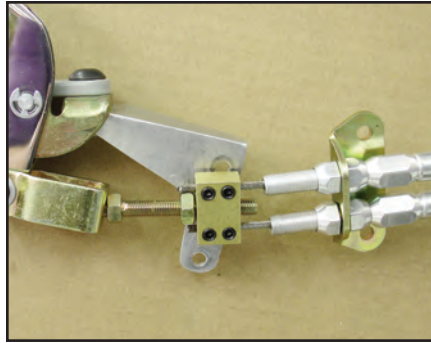


Figure 10

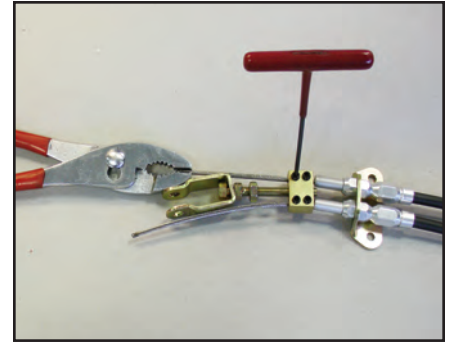


Figure 11

- For the best results always put pressure on the brake pedal as you set the parking brake.

- If you still are having problems with the installation, contact your Wilwood retailer where the product was purchased. Additional technical support is available by calling Wilwood Sales and Technical department at (805) 388-1188.

Brake Testing

**WARNING • DO NOT DRIVE ON UNTESTED BRAKES
BRAKES MUST BE TESTED AFTER INSTALLATION OR MAINTENANCE
MINIMUM TEST PROCEDURE**

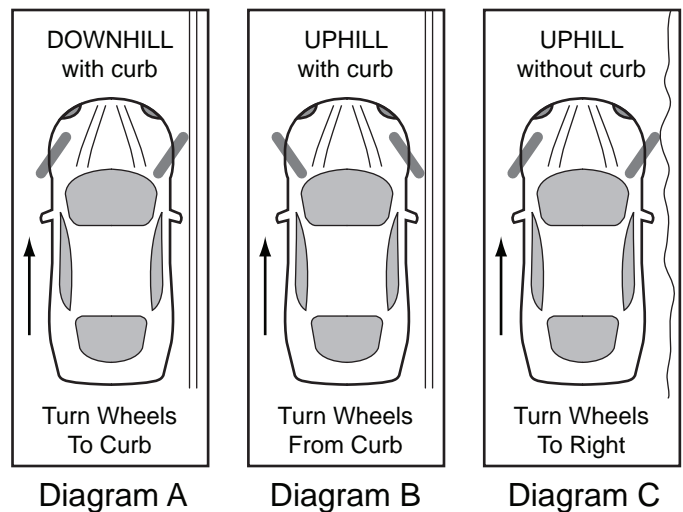
- Make sure pedal is firm: Hold firm pressure on pedal for several minutes, it should remain in position without sinking. If pedal sinks toward floor, check system for fluid leaks. DO NOT drive vehicle if pedal does not stay firm or can be pushed to the floor with normal pressure.
- At very low speed (2-5 mph) apply brakes hard several times while turning steering from full left to full right, repeat several times. Remove the wheels and check that components are not touching, rubbing, or leaking.
- Carefully examine all brake components, brake lines, and fittings for leaks and interference.
- Make sure there is no interference with wheels or suspension components.
- Drive vehicle at low speed (15-20 mph) making moderate and hard stops. Brakes should feel normal and positive. Again check for leaks and interference.
- Always test vehicle in a safe place where there is no danger to (or from) other people or vehicles.
- Always wear seat belts and make use of all safety equipment.

Parking Brake

WARNING • PARKING BRAKE

- Parking brake must be properly adjusted before use and must be manually readjusted for wear if parking brake handle or foot lever travel becomes excessive.
- The holding ability of the brake should be tested by stopping on a sloping surface and applying the parking brake while holding car with the hydraulic foot brake. This should be accomplished both facing up and down hill.
- Do not rely exclusively on the parking brake to hold the car; Curb wheels as recommended by the applicable diagram and put gear selector in park, or shift into first gear or reverse with a manual transmission.

- Diagram A - When parking facing downhill, turn front wheels towards the curb or right shoulder. This will keep from rolling into traffic if the brakes become disengaged.
- Diagram B - Turn the steering wheel to the left so the wheels are turned towards the road if you are facing uphill with a curb. The tires will catch the curb if the car rolls backward.
- Diagram C - When facing uphill without a curb, turn the wheels sharply to the right. If the vehicle rolls, it will go off the road rather than into traffic.
- When parking on a hill, always set the parking brake and move the gear selector into park, or shift into first or reverse gear if your vehicle has a manual transmission.



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