

ASSEMBLY INSTRUCTIONS

FOR

WILWOOD INTERNAL PARKING BRAKE CABLE KIT FOR USE WITH WILWOOD BRAKE KIT 140-10310

2000 - 2005 HONDA S2000

PART NUMBER GROUP

330-10805

**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.



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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:

- 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.

Parts List

| <u>ITEM NO.</u> | <u>PART NO.</u> | <u>DESCRIPTION</u> | <u>QTY</u> |
|-----------------|-----------------|---------------------|------------|
| 1 | 330-10777 | Parking Brake Cable | 2 |

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.

Disassembly Instructions

From inside the vehicle:

- Remove the center console to expose the access hole behind the parking brake hand lever.
- Through the access hole, with the hand lever released (off), disconnect the lever rod at the balance bar.

From underneath the vehicle:

- Remove the cable plate assembly where it enters the car (in the drive shaft tunnel).
- Unbolt and save the brackets holding the original cables to the chassis. They will be reused on the new cables.
- Remove the cables from the original brake calipers and remove them from the vehicle. Make note of the original cable routing from the cable plate to the trailing arms.
- Remove the original cables from the balance bar and cable plate assembly.

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.

Installation (Continued)

From underneath the vehicle:

- Install the new Wilwood rear brake kit per its instructions.
- Install the new cables (same for both right and left) into the original cable plate and balance bar, reusing the original dust boots (no c-clip needed on this cable end).
- Install the cable plate assembly back into the tunnel of the car.
- Route the cables in the same location, using the original brackets, from the tunnel to the rear axle trailing arms.
- Route the cables (figure 1) to the new Wilwood brake calipers. **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 plastic or metal line clamps (not supplied with kit) to secure cable to vehicle chassis or frame.

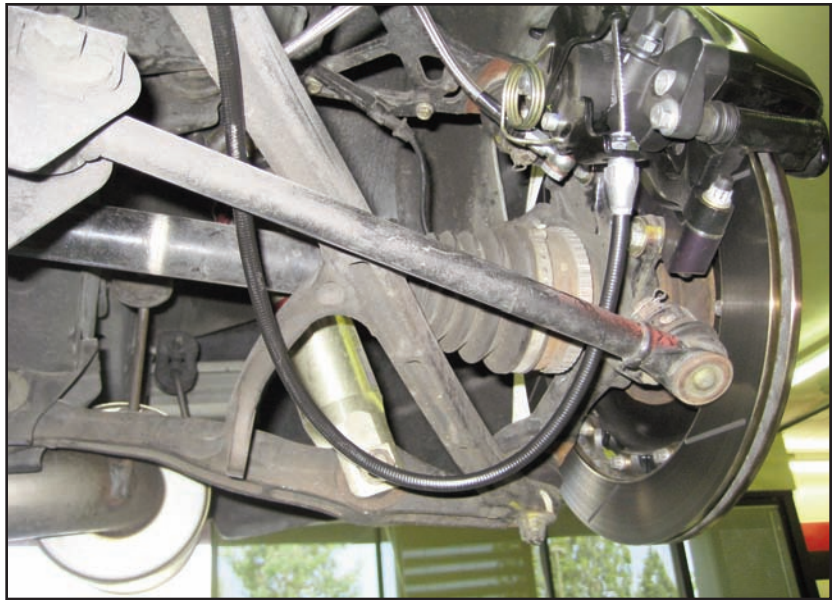


Figure 1. Installation of cable to Wilwood caliper. Photo showing rear brake setup on the left side of vehicle looking toward the rear of vehicle.

- Install cable ends to the caliper using the c-clip provided. Be certain that the cables do no kink or pinch or rub against any rotating components (wheels).

From inside the vehicle:

- Through the access hole, with the hand lever released (off), reconnect the lever rod at the balance bar and adjust it so that the parking brake mechanism, at the calipers, barely starts to move.
- While depressing and holding the brake pedal, pull and release the parking brake hand lever several times. This will self-adjust the parking brake mechanism in the calipers.
- Test the parking brake actuation. Be sure that:
 - Both calipers are working and balanced.
 - The hand lever is firm without running out of travel
 - The parking brake mechanism. at the calipers releases fully.
- Readjust the lever rod as necessary to achieve the function as outlined in the second bullet point above.
- 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 handle multiple times. Please reference the minimum test procedure on the last page of this document.

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.

