

INSTALLATION INSTRUCTIONS
FOR
REVERSE FLOOR MOUNT
BRAKE/CLUTCH PEDAL ASSEMBLY
WITH BALANCE BAR AND ADJUSTABLE RATIO PEDALS
(5.25:1 - 6.00:1)*

*For additional vehicle compatibility, visit www.wilwood.com

BASE PART NUMBER

340-17803

**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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Tips Section on Our Web Site.

DISC BRAKES
wilwood

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.

FEATURES

- ▶ Pedals have three adjustable ratios ranging from 5.25:1 to 6.00:1
- ▶ Adjustable stainless steel brake and clutch pedal foot pads
- ▶ High strength computer design and lightweight construction
- ▶ Includes brake balance bar and clevises
- ▶ High strength steel master cylinder mounting studs
- ▶ Use with Wilwood compact remote master cylinders
- ▶ Wilwood's own black E-Coat finish
- ▶ Easy mounting location
- ▶ Threaded holes provided for false floor mounting
- ▶ Keeps master cylinders away from heat source



Photo 1.
Reverse Mount Dual Pedal Assembly,
5.25:1 to 6.00:1 Adjustable Ratios, (p/n 340-17803),
shown with master cylinders, not included



Photo 2.
Reverse Mount Dual Pedal Assembly,
5.25:1 to 6.00:1 Adjustable Ratios, (p/n 340-17803),
shown with master cylinders and false floor, not included

Installation Instructions

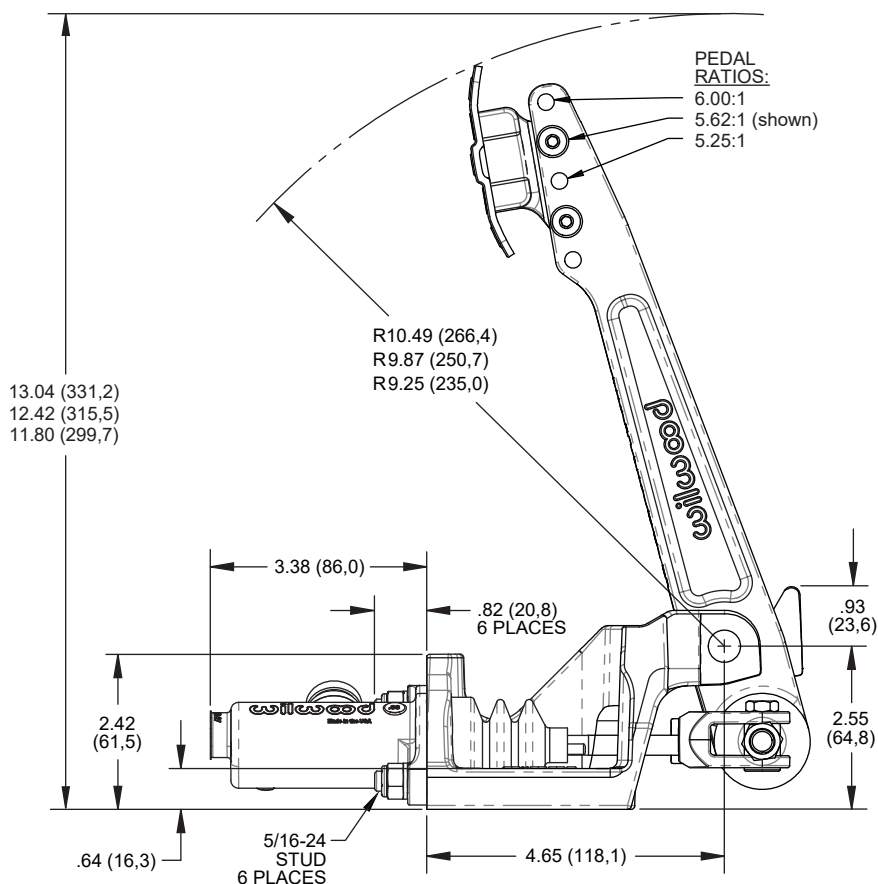
Installation of this component should **ONLY** be performed by persons experienced in the installation and proper operation of disc brake systems. Before assembly begins, familiarize yourself with the following procedure to ensure a trouble-free installation.

- Wilwood's reverse mount dual pedal assembly must be mounted using the six .35" diameter mounting holes as shown in Figure 1b. Attach the pedal assembly to sturdy beams or plates with six 5/16" or 8mm bolts. Pedal assembly must be rigidly attached to frame and not deflect under heavy pedal forces. **NOTE:** Pedal must be free from obstructions over the entire range of motion. Allow enough space so balance bar adjustments can be made and master cylinders are accessible.

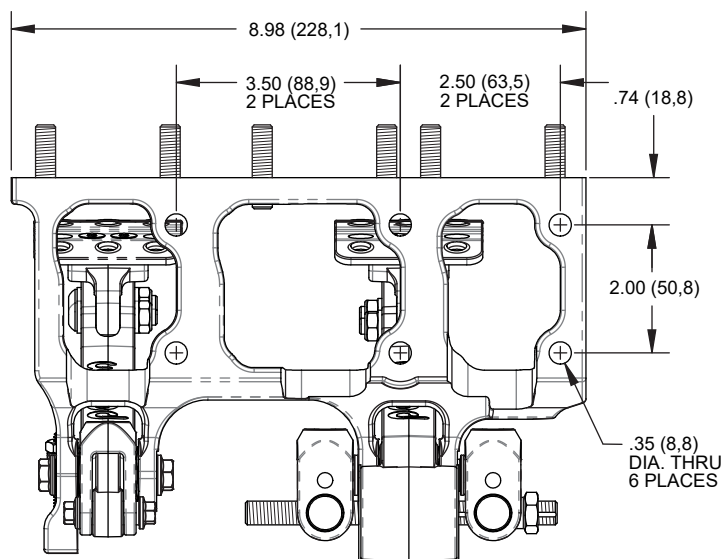
- Attach a false floor utilizing the six 1/4-20 threaded holes in base assembly to protect master cylinders, see Photo 2 for example.

Installation Instructions (Continued)

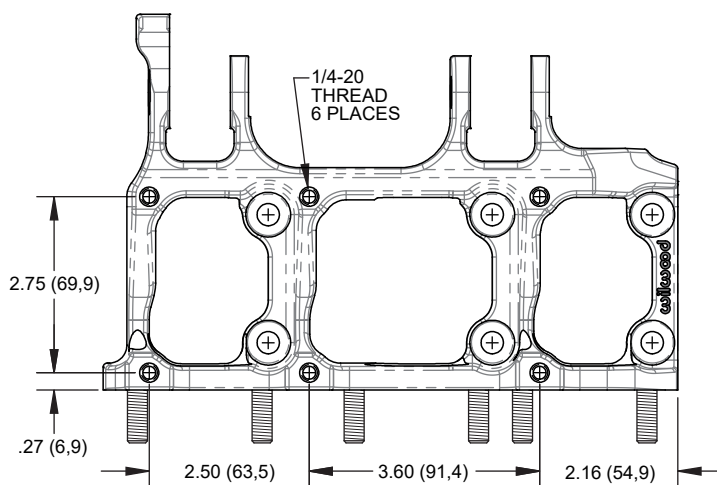
Important and highly recommended: Take photos of brake system before disassembly and during the disassembly process. In the event, trouble-shooting photos can be life savers. Many vehicles have undocumented variations, photos will make it much simpler for Wilwood to assist you if you have a problem.



**Figure 1a. Side View
Reverse Mount Dual Pedal
Assembly, Physical Dimensions,
5.25:1 to 6.00:1 Adjustable Ratios,
(p/n 340-17803), shown with master
cylinders mounted, not included**

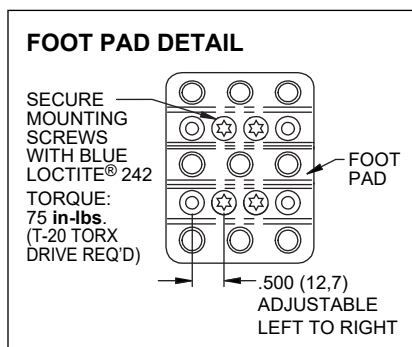


**Figure 1b. Bottom View
Physical Dimensions
(p/n 340-17803)**

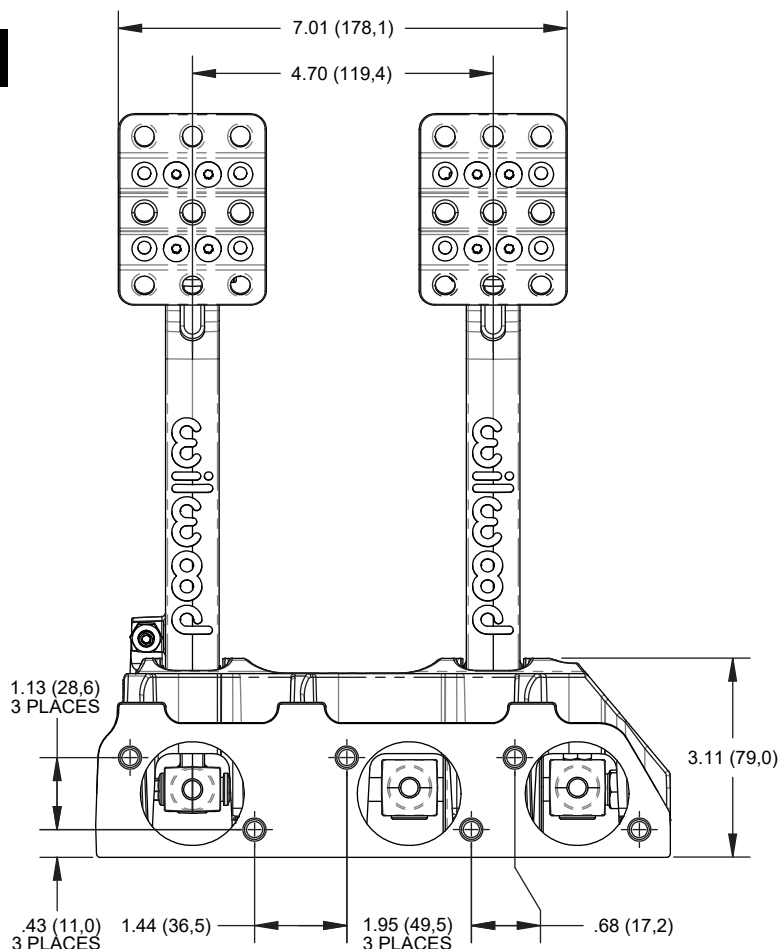


**Figure 1c. Top View
Physical Dimensions
(p/n 340-17803)**

Installation Instructions (Continued)



**Figure 1d. Front View
Physical Dimensions
(p/n 340-17803)**



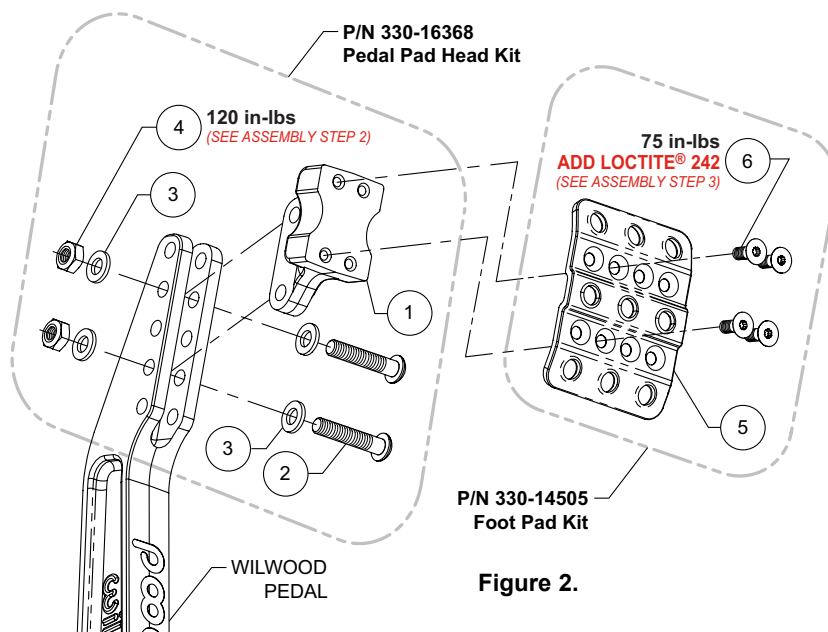
Pedal Assembly Instructions

STEP 1 Install the pedal pad head (1) into the “fork” of the pedal arm in the desired location as shown in Figure 2. Secure in place using bolts (2), washers (3), and locknuts (4).

STEP 2 Torque locknuts (4) to value indicated in Figure 2.

•**NOTE:** The position of the pedal head on the pedal affects the pedal ratio. Ratio may be adjusted from 5.25:1 to 6.00:1.

STEP 3 Orient foot pad (5) as shown in Figure 2. Pad may be installed in three different positions as shown in Foot Pad Detail of Figure 1b. Secure to pedal head (1) using four T-20 drive Torx screws (6). Apply blue *Loctite*® 242 to the threads and torque to value indicated in Figure 2.



ITEM NO.	PART NO.	DESCRIPTION	QTY	NOTES
1	330-16077	Pedal Pad Head, Adjustable	2	P/N 330-16368 Pedal Pad Head Kit, includes p/n's 230-16369, 230-16370, 240-11240, and 330-16077
2	230-16369	Bolt, 1/4-28 x 1.25" Long, Button Head	4	
3	240-11240	Washer, .265" I.D. x .500" O.D. x .063" Thick	8	
4	230-16370	Nut, 1/4-28, Nylock	4	
5	330-11280	Foot Pad, Adjustable	2	P/N 330-14505 Foot Pad Kit, includes p/n's 230-11300, and 330-11280
6	230-11300	Screw, 10-24 x .50" Long, T-20 Torx Drive	8	

Additional Information and Recommendations

- The pedal assembly only fits Wilwood's compact, remote master cylinders. All master cylinder mounting hardware is included with the pedal assembly. Master cylinder flange should mount flush to pedal assembly and be held in place with enclosed washers and locknuts. The clevis on each pedal has a 5/16-24 thread. Make sure to use a jam nut on the master cylinder pushrod when threaded into clevis and check that pushrod is allowed to fully retract when pedal is released.
- Clutch pedal position adjustment is made by turning the pushrod in and out of the clevis. The hard stop bolt can be adjusted to limit the clutch pedal travel, if desired, and locked in place with the nut.
- Brake pedal position is adjusted via the pushrods in the balance bar clevises. Refer to our data sheet DS-252 (available at www.wilwood.com/PDF/DataSheets/ds252.pdf for proper balance bar adjustment procedure.
- Wilwood Hi-Temp® 570 Racing Brake Fluid (6 pack P/N 290-2210) is recommended for race cars and high performance vehicles where brake temperatures exceed normal operating conditions, or use Wilwood EXP 600 Plus Super Hi-Temp (6 pack P/N 290-8478) for severe conditions. For extreme braking temperatures of endurance racing, use Wilwood XR Race-Only Brake Fluid (4 pack P/N 290-16354, not DOT approved, off-highway use only). Used fluid must be completely flushed from the system to prevent contamination. **NOTE: Silicone DOT 5 brake fluid is NOT recommended for racing or performance driving.**
- If after following the instructions, you still have difficulty in assembling your Wilwood pedal assembly, consult your local chassis builder, or retailer where the component was purchased for further assistance.

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.

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Associated Components

PART NO.	DESCRIPTION
260-10371	Wilwood Compact Remote Master Cylinder, 5/8" bore, 1/8-27 NPT outlet
260-13618	Wilwood Compact Remote Master Cylinder, 5/8" bore, 3/8-24 banjo outlet
260-10372	Wilwood Compact Remote Master Cylinder, 3/4" bore, 1/8-27 NPT outlet
260-13619	Wilwood Compact Remote Master Cylinder, 3/4" bore, 3/8-24 banjo outlet
260-10373	Wilwood Compact Remote Master Cylinder, 13/16" bore, 1/8-27 NPT outlet
260-13620	Wilwood Compact Remote Master Cylinder, 13/16" bore, 3/8-24 banjo outlet
260-10374	Wilwood Compact Remote Master Cylinder, 7/8" bore, 1/8-27 NPT outlet
260-13621	Wilwood Compact Remote Master Cylinder, 7/8" bore, 3/8-24 banjo outlet
260-10375	Wilwood Compact Remote Master Cylinder, 1.00" bore, 1/8-27 NPT outlet
260-13622	Wilwood Compact Remote Master Cylinder, 1.00" bore, 3/8-24 banjo outlet
260-10376	Wilwood Compact Remote Master Cylinder, 1 1/8" bore, 1/8-27 NPT outlet
260-13623	Wilwood Compact Remote Master Cylinder, 1 1/8" bore, 3/8-24 banjo outlet
220-13674	Fitting Kit, Caliper Inlet, Banjo, 3/8-24 x .784" bolt, -3 AN banjo fitting, two crush washers
220-13125	Fitting, Caliper Inlet, 1/8-27 NPT to -3 AN
260-16392	Wilwood Remote Reservoir, aluminum, 4 oz.
250-16874	Wilwood Reservoir Bracket, aluminum, triple reservoir
220-13130	Fitting, Compact Remote M/C, 11/16-20 to -3 AN, O-ring
260-16771	Wilwood Quick Disconnect, No Bleed, -3 AN male to -3 AN male
290-6209	Wilwood Racing Brake Fluid, EXP Super Hi-Temp 600 Plus, (16.9 oz)
290-16353	Wilwood Racing Brake Fluid, XR Race-Only, (16.9 oz)