



Factory Five Racing, Inc.

Part Number: 14792	Revision: <u>C</u>	Effective Date: 07/16/08	By: <u>J.Ingerslev</u>
Document Type (indicate):			
◦ Bill of Material		◦ Drawing (may be attached)	◦ Specification
• Assembly Instructions		◦ Operating Procedure	◦ Other

Wilwood Pedalbox Instructions

I. Parts included in kit

14749	PEDAL COMPONENTS	EA	1.00
14732	5/16"-18 x 1" PRESS IN STUD	EA	1.00
14784	5/16"-18 THIN NYLON LOCK NUT	EA	1.00
14441	BRAKE LIGHT SWITCH	EA	1.00
10520	3/8"-16 x 1" BOLT	EA	1.00
11180	0.25" FEMALE TERMINAL CONNECTOR	EA	2.00
12775	#10-32 x 5/8" BUTTON HEAD SOCKET SCREW	EA	1.00
12768	#10-32 STAINLESS NYLON LOCK NUT	EA	1.00
14451	PEDAL BOX	EA	1.00
14772	MASTER CYLINDER	EA	2.00
14773	RESERVOIR KIT	EA	2.00
12336	1/4"-20 x 1.5" SOCKET HEAD CAP SCREW	EA	2.00
10802	1/4" NYLON LOCK NUT	EA	2.00
14058	SPACER, 0.50"	EA	2.00
11024	5/16"-18 x 1" BOLT	EA	3.00
13963	5/16"-18 NYLON LOCK NUT	EA	3.00
14731	CLUTCH CABLE	EA	1.00
14734	PEDALBOX MOUNT	EA	1.00
14735	PEDALBOX REAR MOUNT	EA	1.00
14783	CLUTCH QUADRANT STOP	EA	1.00
14788	BRAKE LIGHT SWITCH MOUNT	EA	1.00
14736	DRIVER FOOTBOX FRONT WALL - WILWOOD PEDALS	EA	1.00
14737	WILWOOD CLUTCH BLOCKOFF	EA	1.00
14724	CLUTCH QUADRANT ASSEMBLY	EA	1.00
13087	CLUTCH QUADRANT	EA	1.00
13088	THREADED FIREWALL ADJUSTER	EA	1.00
14729	#8-32 x 0.75" SOCKET HEAD SCREW	EA	4.00
25379	#8-32 NYLON LOCKNUT	EA	4.00
14720	QUADRANT SPACER	EA	1.00
14721	3/8"-16 x 3.5" SOCKET HEAD CAP SCREW	EA	1.00
11040	3/8"-16x 1.25" BOLT	EA	1.00
13964	3/8"-16 NYLON LOCK NUT	EA	2.00
14725	3/8"-16 JAM NUT	EA	1.00
14723	CLUTCH PEDAL PIVOT SLEEVE	EA	1.00

II. Tools required

1/2", 9/16" sockets
 3/8", 11/32", 1/2", 9/16" wrenches

Drill

$\frac{3}{16}$ " , $\frac{1}{4}$ " , $\frac{1}{2}$ " Drill bit

$\frac{1}{8}$ " , $\frac{9}{64}$ " , $\frac{3}{16}$ " , $\frac{5}{16}$ " Hex Keys

Hammer

Vise or 2 pieces of 2 x 4

Razor knife or file or grinder

III. Installation Instructions

Note: This pedal box is set-up to use either a hydraulic clutch or a cable clutch. The parts and instructions required for a cable clutch installation are included in this kit.

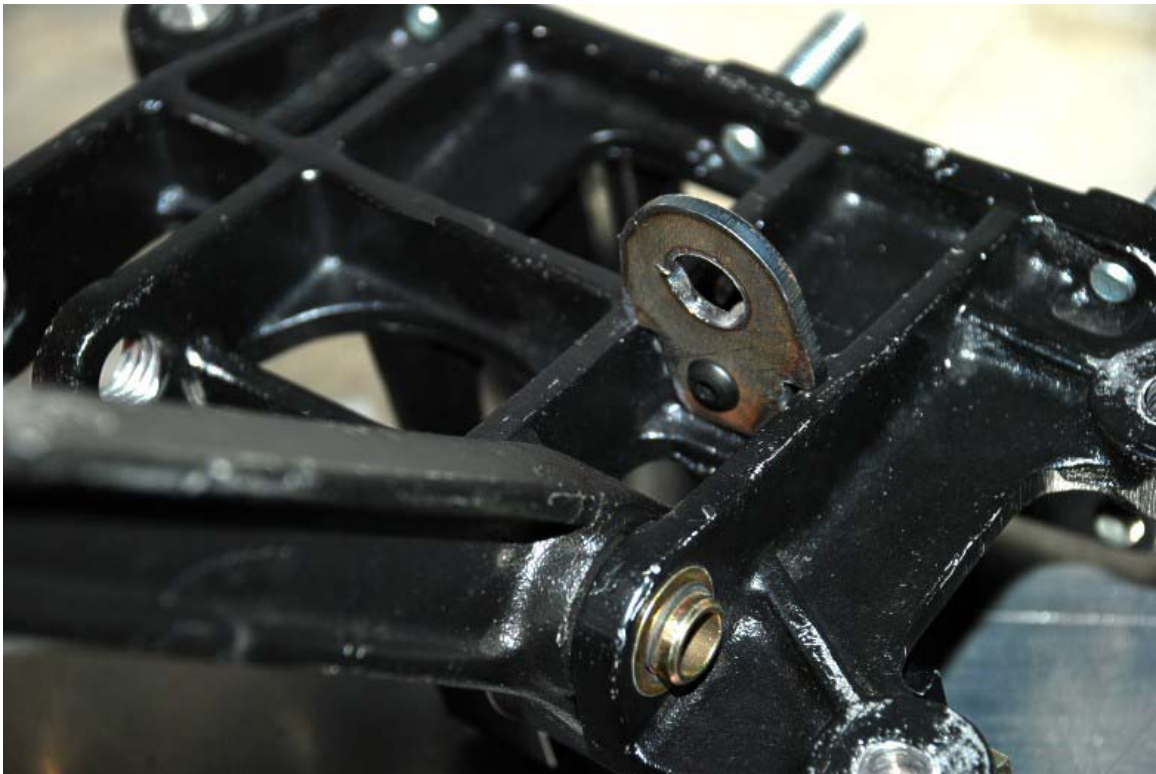
1. Using snap ring pliers, remove one of the retaining clips from the brake pedal pivot sleeve.



2. Push the pivot sleeve out and remove the pedal. Note where the washers are located for reinstallation later.
3. Place the brake switch mount between the brake pedal mount tabs on the side closest to the brake pedal pivot holes.
4. Use a $\frac{3}{16}$ " drill bit to drill through the brake switch mount hole and the pedalbox.



5. Attach the brake switch mount to the pedalbox using the black #8 screw and locknut.
6. Reinstall the brake pedal to the pedalbox.



7. Install the brake switch in its mount. Keep the two nuts loose for now. Final adjustment must be made once the pedal height is set after installing the pedals in the car.



8. Using snap ring pliers, remove one of the retaining clips from the clutch pedal pivot sleeve.



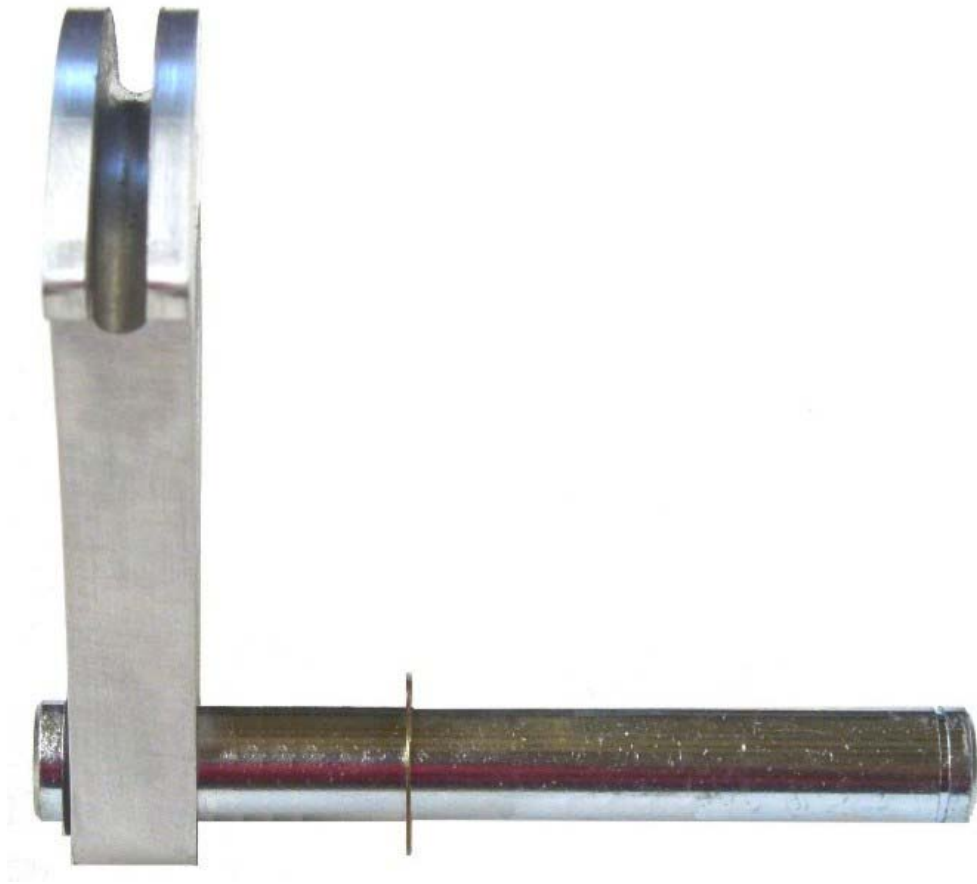
9. Push the pivot sleeve out and remove the pedal. Note where the washers are located for reinstallation later.
10. Remove the second snap ring from the clutch pedal pivot sleeve.
11. Using snap ring pliers, attach one of the snap rings to the new longer pivot sleeve provided.



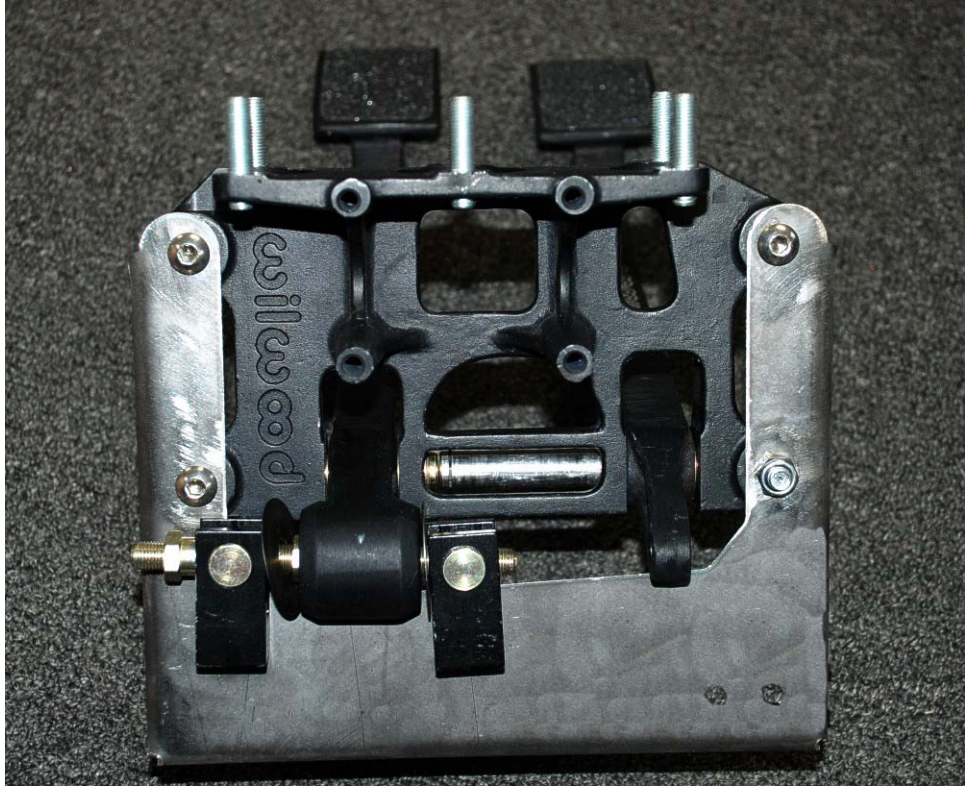
12. Push the pivot sleeve through the clutch quadrant from the left side so the quadrant/pivot sleeve assembly looks like the picture below. If necessary, chase the quadrant hole with a 1/2" drill bit so that the quadrant can slide on the pivot sleeve.



13. Put one of the Wilwood pedal washers on the pivot sleeve next to the quadrant.



14. Remove the snap ring holding the master cylinder mount to the clutch pedal, push the pivot sleeve out and remove the master cylinder mount.
15. Attach the Wilwood pedals to the underside of the mounting bracket using three button head screws and locknuts and the stud. The stud should get mounted on the left side next to the clutch pedl pivot sleeve.



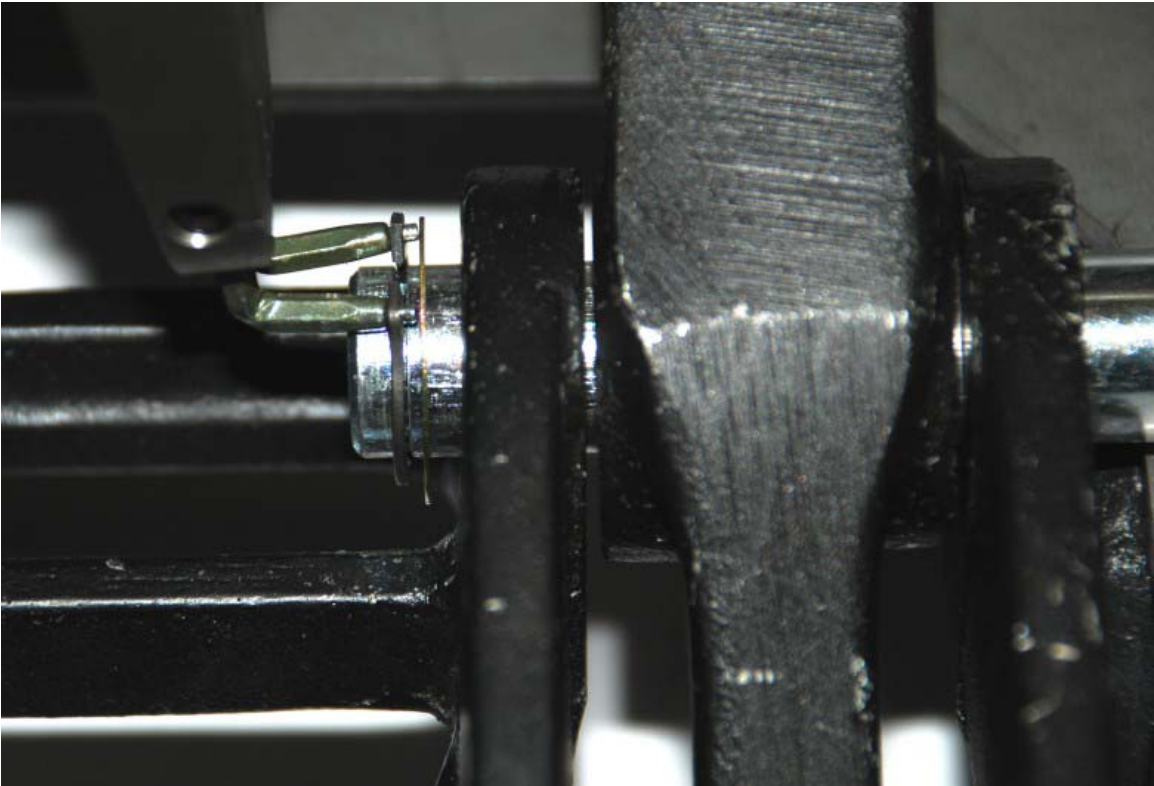
16. Attach the Clutch pedal stop mount to the bottom of the pedalbox using two 1/4" socket head screws, spacers and locknuts.



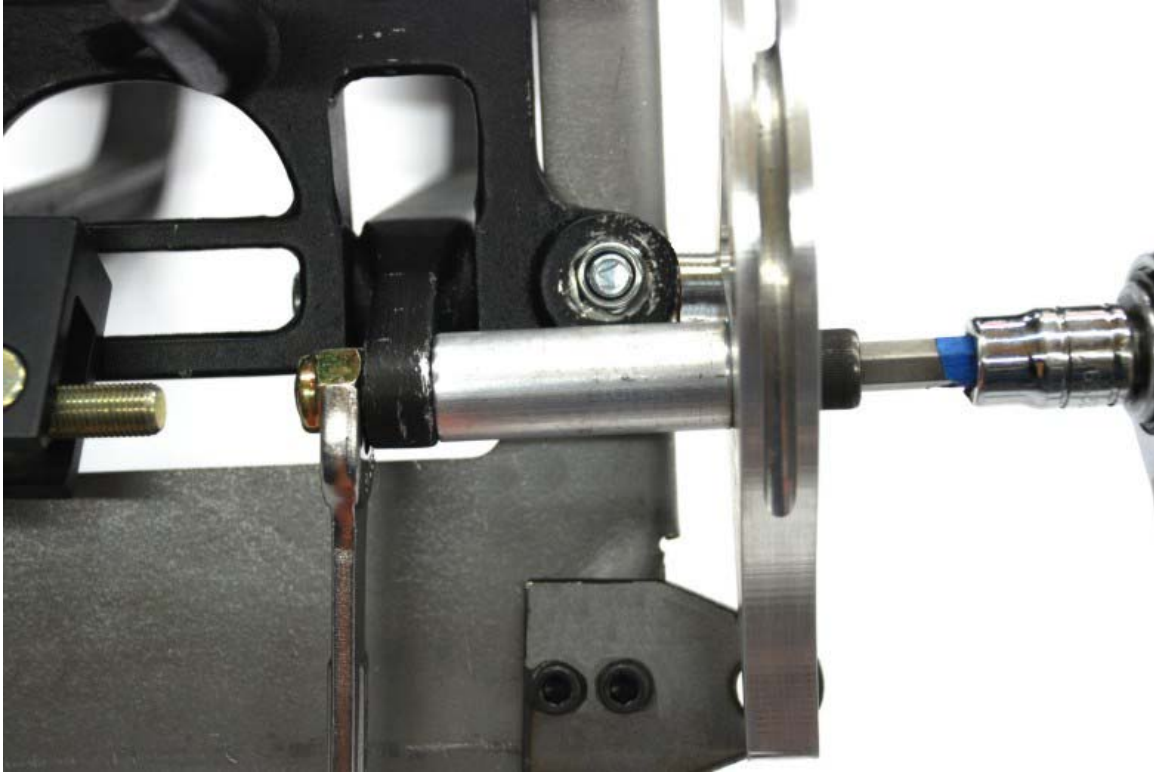
17. Slide the Quadrant and pivot sleeve assembly through the hole in the side of the Wilwood pedal bracket hole for the Clutch pedal.

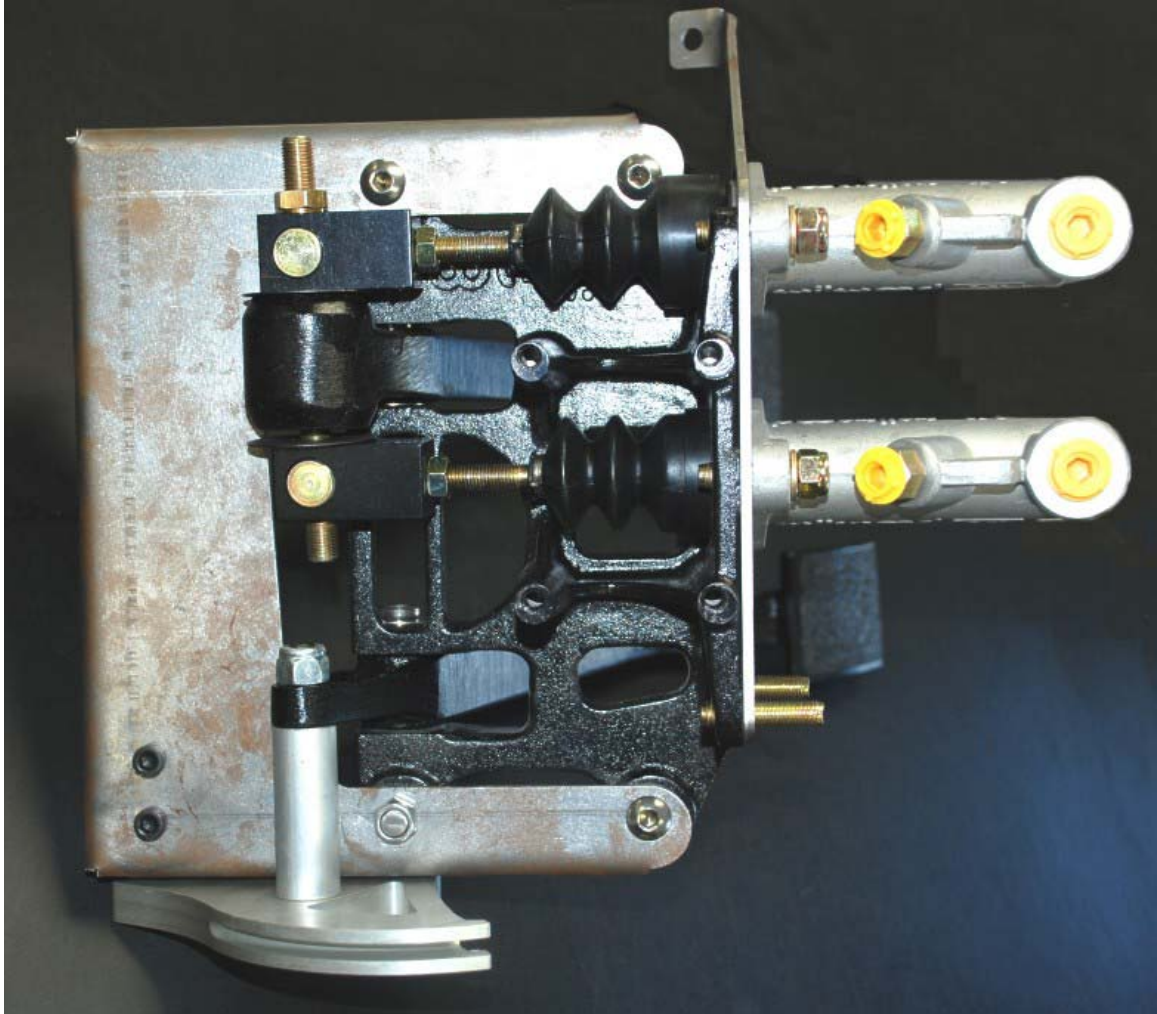


18. Put the remaining thin washer and snap ring on the pivot sleeve.

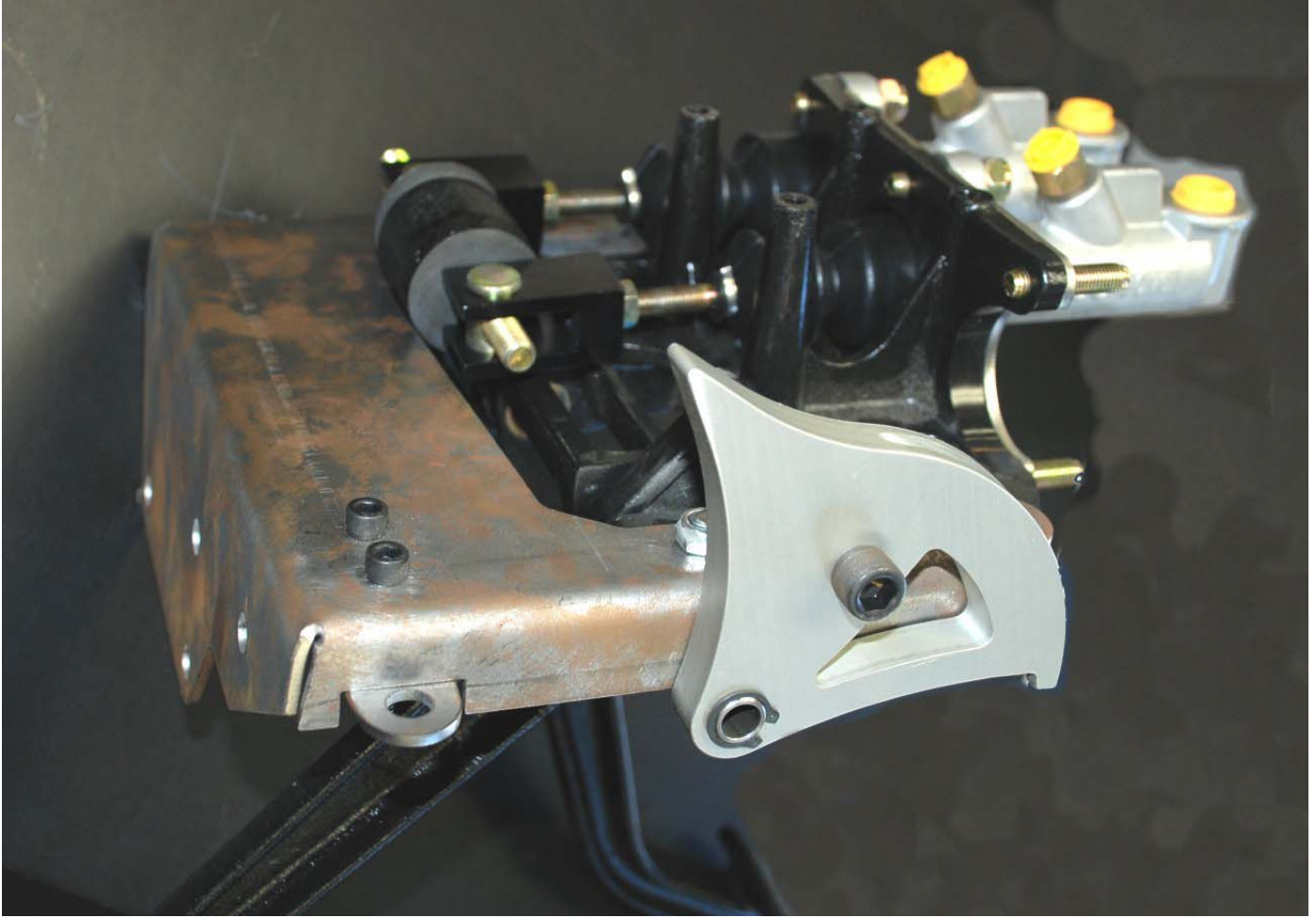


19. Insert the 2" aluminum spacer between the quadrant and the clutch pedal lining up the small hole in the Quadrant and the hole in the clutch pedal.
20. Insert the long $\frac{3}{8}$ " socket head screw from the quadrant side through the small hole in the Quadrant then the spacer and the clutch pedal.
21. Tighten the locknut next to the clutch pedal using a $\frac{5}{16}$ " Hex key and $\frac{9}{16}$ " wrench.





Top view of pedalbox

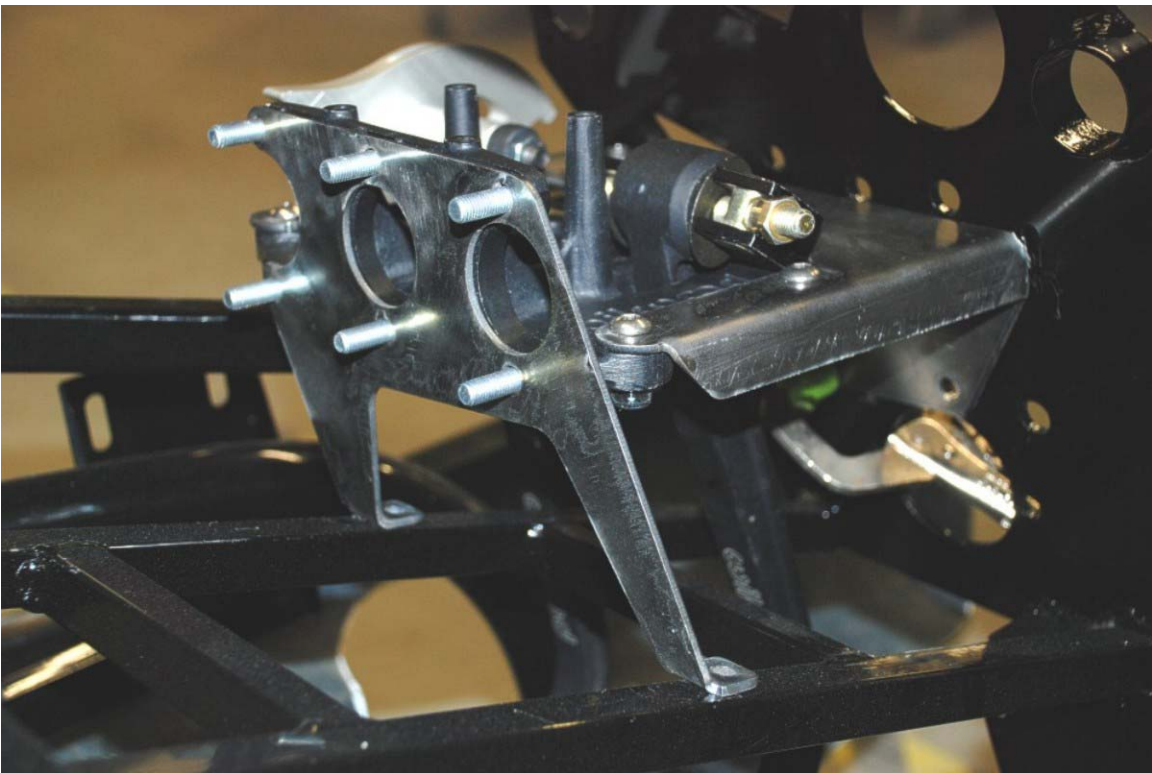


Side view of Pedalbox.

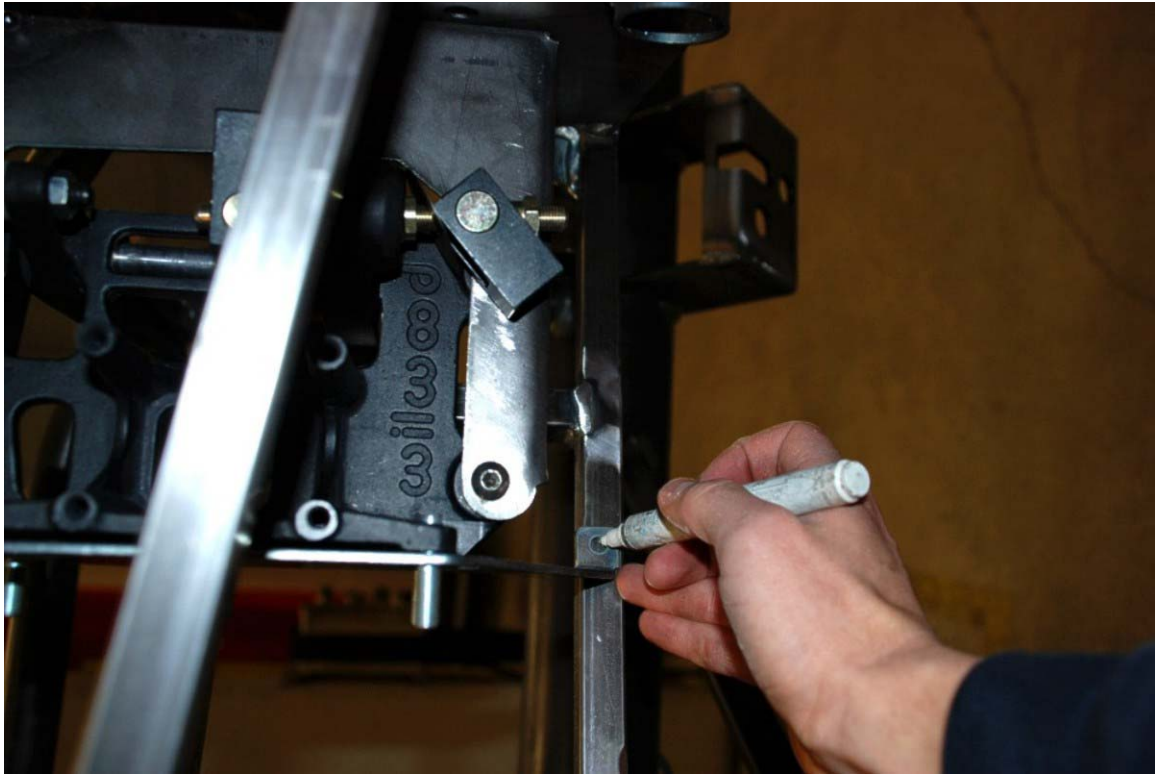
22. Place the pedalbox assembly in the drivers footbox. Make sure that the brake pedal goes in front of the $\frac{3}{4}$ " cross tube on the frame.
23. Insert three $\frac{3}{8}$ " x 1" socket head screws from the pedalbox hardware assembly in the kit and the one included in this pedal assembly through the front of the Pedalbox and the pedalbox mount.



24. Attach the $\frac{3}{8}$ " locknuts hand tight on the screws.
25. Push the rear pedalbox mount onto the master cylinder mount studs and use a few of the jam nuts from the Wilwood pedal assembly to temporarily hold the rear mount in place.



26. Tighten the front $\frac{3}{8}$ " screws with a $\frac{5}{16}$ " hex key and $\frac{9}{16}$ " wrench.
27. Use a marker to mark the locations of the rear mount holes on the $\frac{3}{4}$ " tubes.



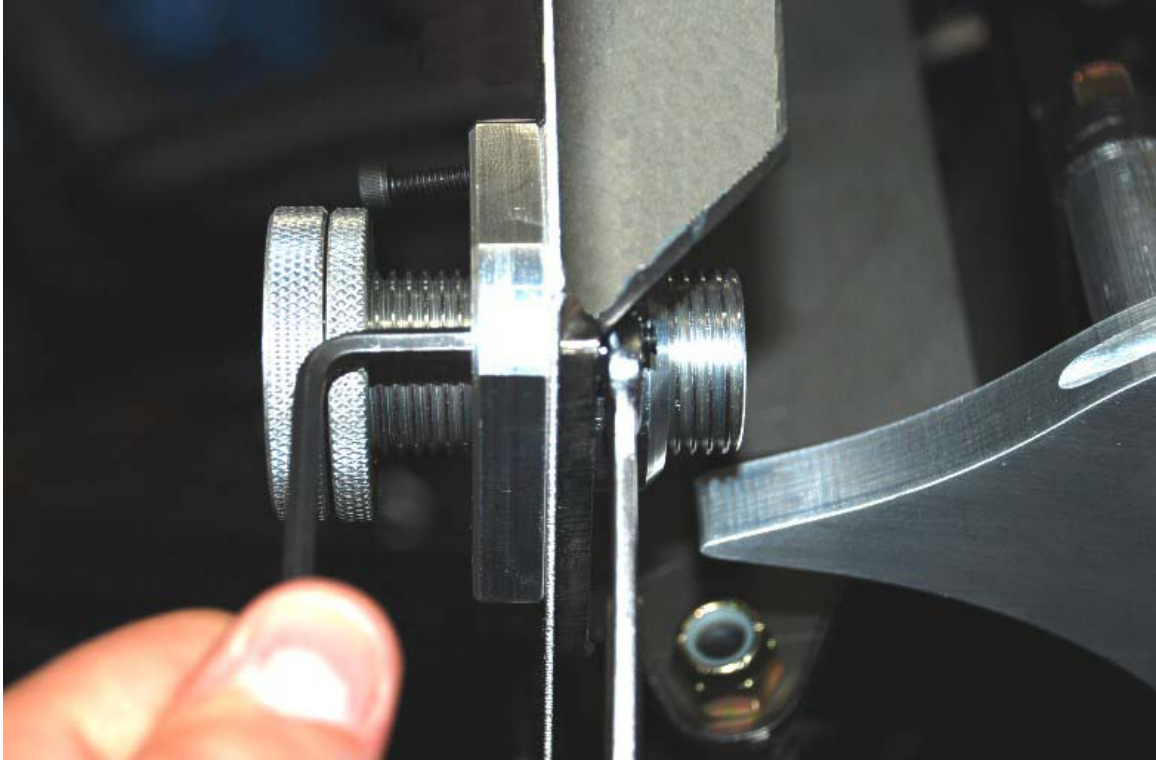
28. Remove the $\frac{3}{8}$ " screws from the front mount plate.
29. Remove the rear pedalbox mount.
30. Remove the pedalbox assembly from the footbox
31. Use a $\frac{1}{4}$ " drill bit and drill to drill through the $\frac{3}{4}$ " tubes at the locations marked for the rear mount.
32. Reinstall the pedalbox assembly in the driver's footbox leaving the front $\frac{3}{8}$ " locknuts hand tight.
33. Using the kit pedal components fasteners, install the long $\frac{1}{4}$ " screws from the underside up with a fender washer next to the head. Leave the locknuts hand tight.



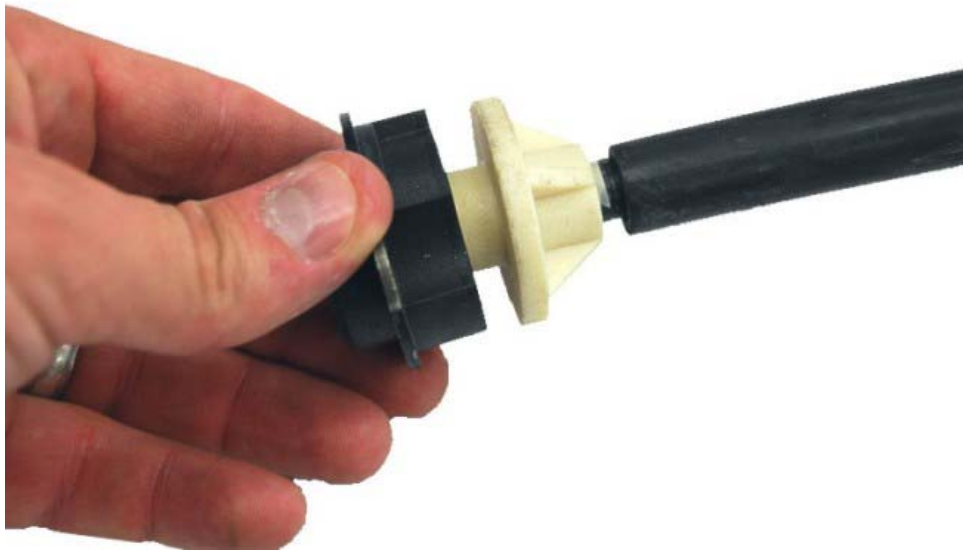
34. Place a jam nut from the Wilwood pedals onto each of the master cylinder threaded shafts.
35. Put one of the master cylinders onto one of the brake master cylinder mounts and turn the threaded shaft into the threaded mount on the brake pedal. As a starting point, thread the shaft in until you can see it is flush on the other side of the mount.
36. Attach and tighten the locknuts holding the master cylinder to the pedalbox.



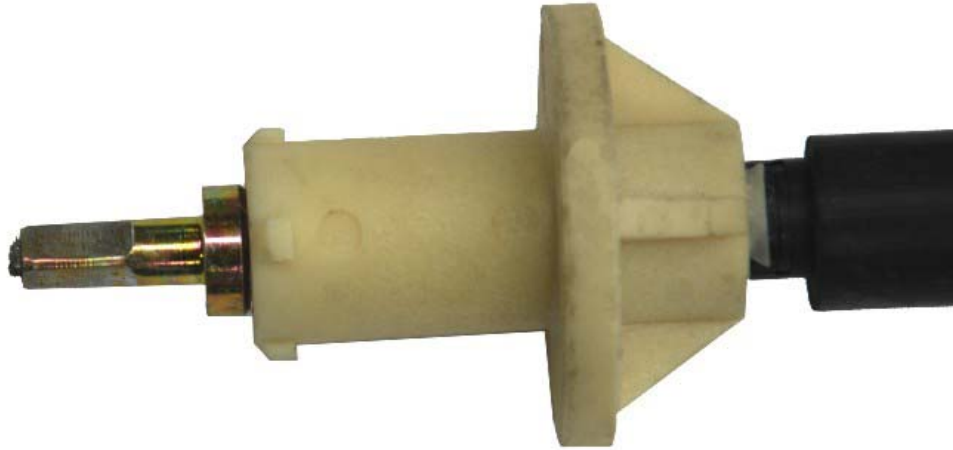
37. Repeat for the other master cylinder.
38. Tighten the $\frac{1}{4}$ " locknuts holding the rear mount to the frame.
39. Tighten the front $\frac{3}{8}$ " locknuts.
40. Thread the jam nut onto the $1\frac{1}{4}$ " screw provided in the quadrant box.
41. From the underside, push the screw through the quadrant pedal stop mount plate and hand tighten the locknut on the screw.
42. Push the firewall adjuster into the front of the footbox.
43. Attach the firewall adjuster to the front of the pedalbox using the screws provided and a $\frac{9}{64}$ " Hex key and $\frac{11}{32}$ " wrench.



44. Pull the rubber mount off the end of the clutch cable.



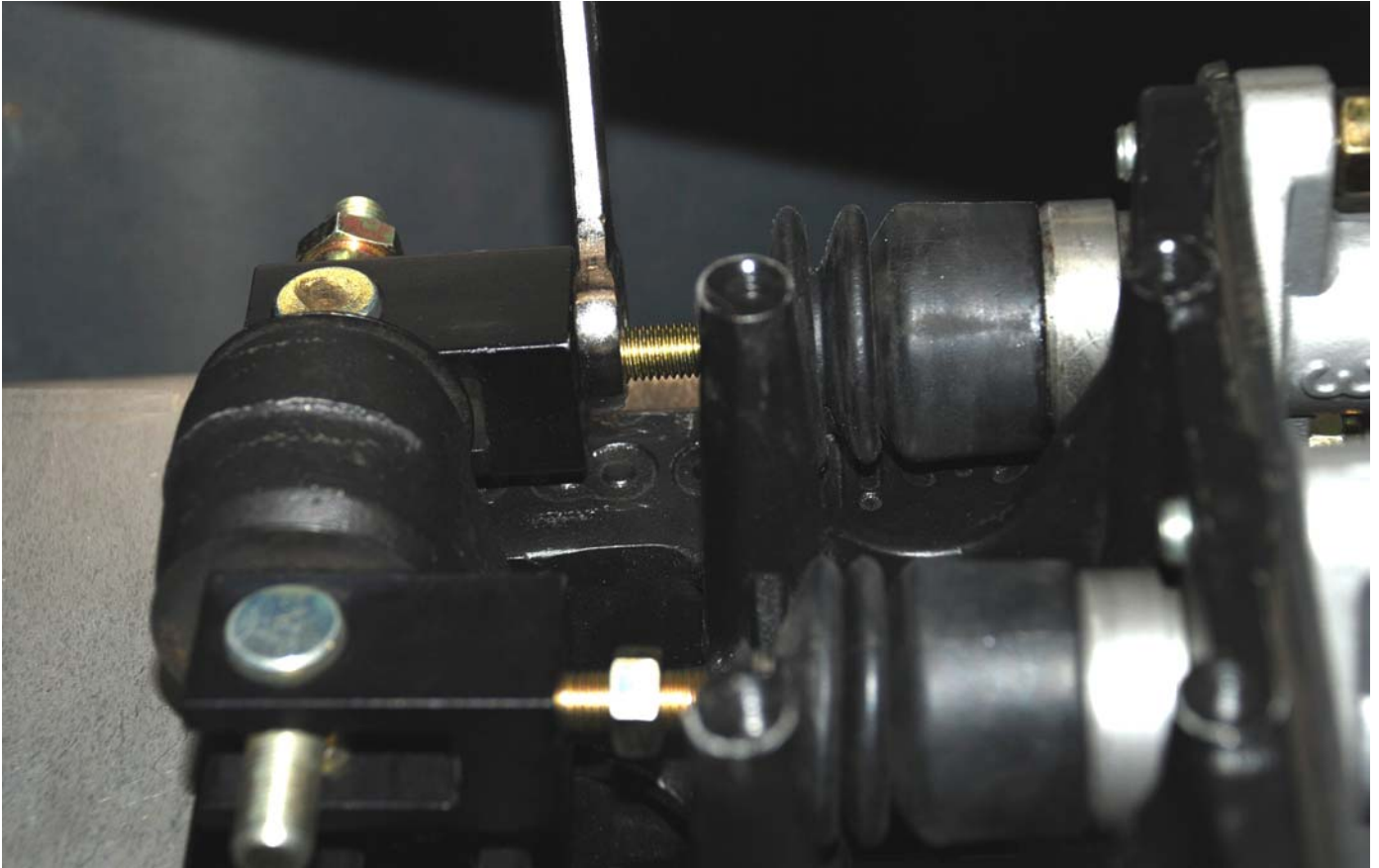
45. Use a razor knife, file or grinder to remove the plastic barbs from the plastic shaft.



46. Pull the cable slightly out of the firewall end of the cable and pass it through the firewall adjuster.



- 47. Push the clutch cable plastic mount into the firewall adjuster and place the cable end over the end of the quadrant.
- 48. Sit in the car and check the height of the brake pedal. Adjust the height of the brake pedal by threading the shafts of the master cylinders in or out.
- 49. Tighten the jam nuts on the master cylinders.



50. Push the quadrant back so that it sits on the pedal stop screw.
51. Adjust the height of the clutch pedal so that it is the same height or slightly higher than the brake pedal by screwing the pedal stop screw up or down.
52. Tighten the jam nut on the pedal stop screw.
53. After the engine has been installed, attach the other end of the clutch cable to the clutch fork. If necessary screw the firewall adjuster in so that the cable is tight but there is no pull on it without depressing the clutch pedal.
54. Adjust the brake bias and balance bar according to the Wilwood Engineering instructions included with the Willwood pedal assembly.
55. After the wiring harness and lights have been installed, attach the brake light switch to the harness and adjust the location of the brake light switch so that it will turn the lights on when the brake pedal is depressed roughly $\frac{1}{8}$ ".