

1982-93 Mustang Cracked Firewall Reinforcement Kit

Tools Used:

- 1/4" or 3/8" drive cordless ratchet
- 6" extension
- 5/16" socket
- Philips screw driver
- 9/16" socket
- 9/16" wrench
- 5/16" wrench
- 3/8" socket

You will use 1/4" or 3/8" drive cordless or air ratchet with a 6" extension and 5/16" or 8mm socket. This will be needed to drill the self-tapping screw through the firewall.

NOTE: This kit is intended to be used in conjunction with an adjustable clutch cable and a Double-Hook Quadrant

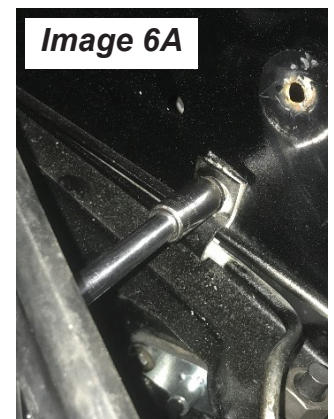
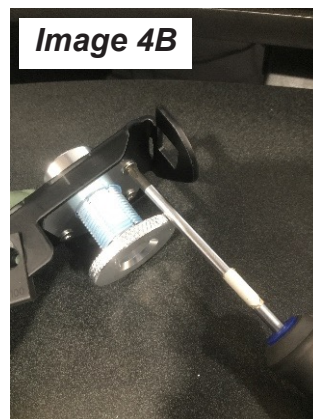
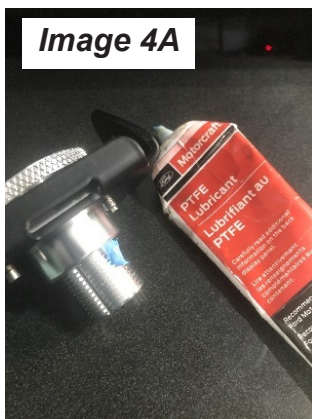
This kit is designed to address the commonly found cracked firewall associated with Manual transmission Fox Body cars. The kit consists of a reinforcement bracket that is used to address the issue of the firewall cracking around the clutch cable opening. We have also included an additional reinforcement bracket for the accelerator cable area also to be used for applications with excessive cracking. Steps 1-10 are for the main clutch cable reinforcement bracket. Once the main bracket is in place you can proceed to the last 4 steps which are for the installation of the accelerator cable reinforcement.

Installation

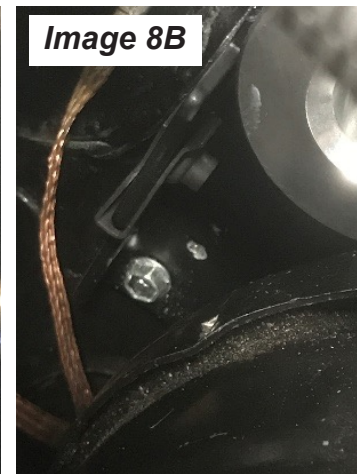
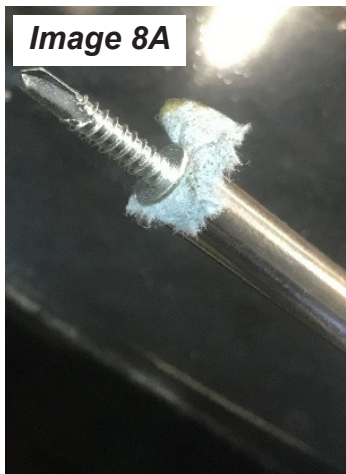
1. To gain access to the firewall location needed for the install, remove the vacuum "T" from the cowl using a 3/8" socket (**Image 1A**) and unplug the vacuum check valve from the brake booster. Remove the brake line retaining screw above the pinch weld. We used a strap to hold the A/C and vacuum lines out of the way. (**Image 1B**) Disconnect the clutch cable from the existing quadrant and pull the cable through the firewall to remove it.
2. At this point, you can create a mock up for alignment of the clutch cable hole in the firewall with the hole in the reinforcement bracket. The bracket should fit flush against the firewall, with the longer bent flange tightly against the pinch weld to the left of the clutch cable opening on the firewall.
3. Next, you will install the new firewall adjuster to the reinforcement bracket using the stainless M5 machine thread screws provided. There may be some powder coat in the threads of the bracket. If this is the case, you can first thread the screws in each of the three mounting holes to clean the threads, or an M5 tap if you have one available.
4. Apply a small amount of PTFE lubricant to the firewall adjuster threads before screwing the adjuster wheel into the bracket. Adjust the wheel so that the end of the threads is flush with back end of the adjuster housing. (**Reference Images 4A and 4B**)
5. Now that the firewall adjuster is secured to the reinforcement bracket, you can position the assembled bracket into place. The firewall adjuster housing will pass through the opening in the firewall and the bracket should fit flush against the firewall. The bolt hole located on the top flange of the reinforcement bracket should align with the round hole in the top firewall pinch weld.

6. There are two brake lines that run across the top firewall pinch weld which are secured to the firewall with a small clamp bracket. This bracket will need to be removed in order for the brake lines to separate, allowing you to install the top bolt used for the reinforcement bracket. **(Reference Image 6A)**
7. After the two brake lines are free, this will allow access for the top bolt and nut to be installed. You will insert the supplied 3/8" bolt through the top flange hole from the bottom side of the bracket flange and up through the hole in the firewall pinch weld. You can now install and loosely snug the supplied 3/8" nut on the bolt. This will hold the bracket into place. Do not fully tighten the nut. **(Reference Image 7A and 7B)**
8. Verify that the reinforcement bracket is in its desired position. Once the bracket is positioned in its desired location, you can use the 5/16" socket, 6" extension, and a cordless ratchet to install the provided self-tapping sheet metal screw. **BE SURE THAT THIS IS WHERE THE BRACKET NEEDS TO BE BEFORE DRILLING THE SUPPLIED SCREW THROUGH THE FIRE WALL.** Do not overtighten the screw. This will strip the hole. We used a small piece of a shop towel to hold the screw in the socket while passing the screw through the bottom hole in the reinforcement bracket. **(Reference Image 8A and 8B)**
9. With the lower screw installed and tightened, verify that the bracket is pulled tightly against the firewall. At this point, you can inspect the gap between the firewall pinch weld and the flange at the top of the reinforcement bracket. Each car will be slightly different and some vehicles may require one or two washers used as shims to help close the gap. We have provided two 7/16" washers to use as shims if needed. If shims are necessary, you will need to remove the 3/8" bolt and nut in order to put the washers in place between the bracket and pinch weld before reinstalling the bolt and nut. Then, you can fully tighten the 3/8" nut.
10. After the firewall reinforcement bracket is installed, you can now reinstall your adjustable clutch cable if you choose not to install the accelerator cable reinforcement. If you choose to install the accelerator cable reinforcement, you can move on to the next section of steps for that. You will want to leave the clutch cable uninstalled for those steps to allow space to work while installing the accelerator cable reinforcement.

NOTE: When installing the clutch cable, the quadrant hook location closest to the firewall will be used. **(Reference Image 10A)** Once installed, make any adjustments needed on your cable.



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Accelerator Cable Reinforcement Installation Steps

1. Loosen and remove the two 5/16" screws retaining the accelerator cable to the firewall.
2. Install the supplied J-clip and attach it to the flange on the clutch reinforcement bracket. Use the supplied M6 bolt to loosely secure the bracket into place
 - **NOTE: Bolt will be installed with the head facing the passenger side of the car.**
3. Slide the accelerator support bracket up between the cable flange and the firewall.
4. Re-install and tighten the accelerator cable screws at the firewall to secure the cable first. Once the cable is secured, then tighten the M6 bolt to secure the brackets to each other.



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