



1511 Hancel Parkway Mooresville, IN 46158 317-837-2444

# Transmission Crossmember '99~'04 Lightning / Harley Davidson '97~'04 F-150 (2wd) (TCB-FT01)

Designed to be a direct replacement for the flimsy, stamped steel OEM unit, this crossmember is a great addition to your truck! Constructed from high strength DOM steel tubing, the design offers superior stiffness and strength over the OEM version. Engineered with adjustable bolt-in frame brackets makes installation quick and NO MODS required! All of this including a weight savings of six pounds over OEM and works with Stiffeners Chassis Stiffening System too!

### Kit Includes:

- 1 Transmission Crossmember
- 2 Frame Brackets (1 Driver, 1 Pass.)
- 4 1/2-13x4.0 Bolts
- 4 1/2-13 Nyloc Nuts
- 8 1/2 SAE Washers
- 4 3/8-16x1.0 Bolts
- 4 3/8-16 Pinch Nuts
- 8 3/8 SAE Washers
- 2 5/16-18x.75 Bolts
- 2 5/16-18 Pinch Nuts
- 4 5/16 SAE Washers

**Required Tools:** Basic hand tools  
Floor jack  
Jackstands  
Black Tape or Ty-wrap

**Install Time:** Approximately 1 hr.

### Installation:

1. Raise vehicle to allow access for installation; support with jackstands.
2. Support transmission with floor jack, be sure to leave room for removal of the OEM crossmember.
3. Remove the two nuts securing transmission mount to crossmember. Raise the transmission slightly until no longer resting on crossmember.
4. Locate crossmember bolt-plate on driver's side frame (outboard). Remove wireharness from clip as shown in Fig.#1.

5. Remove the three nuts attaching crossmember to frame on driver's side, then remove bolts.
6. Repeat Step 5 on passenger side and remove OEM crossmember.
7. Locate passenger side frame bracket as shown in Fig.#2.
8. Using 1/2" hardware, install bracket as shown in Fig.#3 but **DO NOT TIGHTEN BOLTS**.
9. These brackets are slotted to ensure proper pinion angle when using **Stiffeners Frame Brace (LCB-FT01)**.

**Final tighten bracket into position as noted below.**

**NO BRACE** – Push brackets completely **UP**

**YES BRACE** – Push brackets completely **DOWN**

**NOTE: SEE PAGE #3 IF USING FRAME BRACE**

10. Repeat Step 9 for driver's side.
11. Position crossmember into place and secure with 3/8" hardware (Fig.#4).
12. Lower jack until transmission is fully supported by crossmember, install and tighten retaining nuts.
13. Using 5/16" hardware, secure exhaust heat shields into place (Fig.#5).
14. Reconnect wireharness to clip from Step 4 using black tape or ty-wrap (not supplied).
15. Remove jackstands and lower vehicle.



TCB-FT01

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# STIFFLERS

CHASSIS & SUSPENSION

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Fig.1



Fig.2



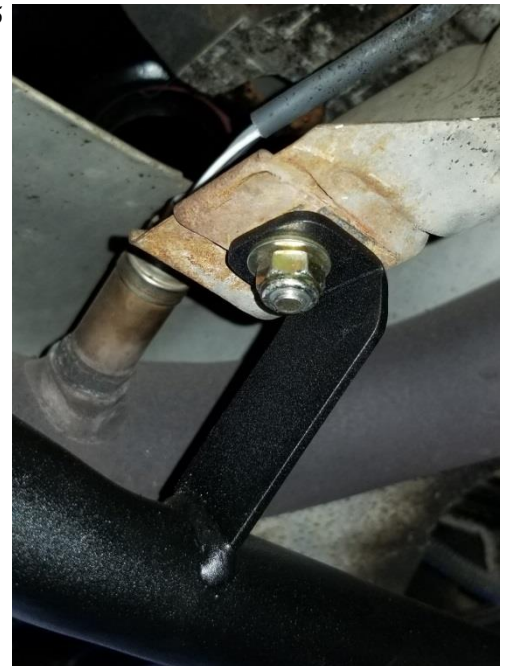
Fig.3



Fig.4



Fig.5







## When using the Stiffeners Frame Brace (LCB-FT01)

Fig.6



Fig.7



Fig.8

