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INSTALLATION GUIDE



TCP TWRB-01 Tower Export Brace 64-70 Mustang/Cougar



Description: Tower export brace includes firewall mount, shock tower mounts, and adjustable aluminum rods with rod ends.

Applications: 1964-70 Mustang and 1967-70 Cougar

Note: Product will not fit late model fuel injection plenum.

PARTS LIST

TCP TWRB-01 - Tower Export Brace 1964-70 Mustang

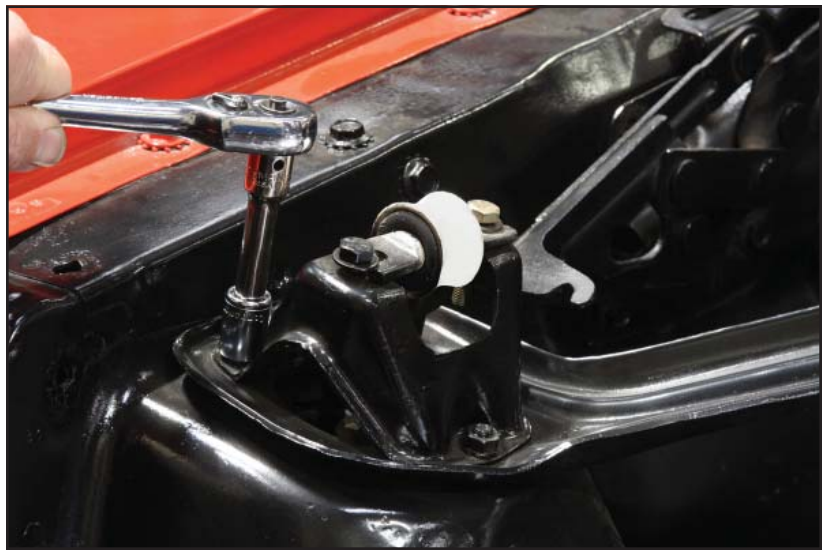
Qty	Part Number	Description
1	7907-001	Export Brace Firewall Bracket 9.56" Long
2	7907-002	Export Brace Shock Tower Plate
1	7907-006	Export Brace Firewall Bracket Support 9.56" Long
2	7907-38-13.25-S	Radius Rod 3/8 Thread x 13.25" Long Aluminum Satin Finish
1	7918-025	Hardware Bag

7918-025 - Hardware Bag

Qty	Part Number	Description
11	3101-038-16C	Locknut 3/8-16 Nylon Insert
2	3102-038-24LY	Jam Nut 3/8-24 LH, yellow zinc plated
2	3102-038-24RC	Jam Nut 3/8-24 RH, clear zinc plated
4	3104-038-C1.00C	3/8-16 x 1" Button Head Cap Screw
5	3104-038C1.25C	3/8-16 x 1-1/4" Button Head Cap Screw
2	3104-038C1.75C	3/8-16 x 1-3/4" Button Head Cap Screw
2	3111-038x038-L	Rod End LH 3/8 thread x 3/8 Bore x 1/2 ball width
2	3111-038x038-R	Rod End RH 3/8 thread x 3/8 Bore x 1/2 ball width
14	3157-038S-C	Washer 3/8 Flat SAE
2	7907-007	Export Brace Tapered Spacer

INSTRUCTIONS

1. Remove the two bolts at the shock crossbar and the three nuts holding the factory shock mount.



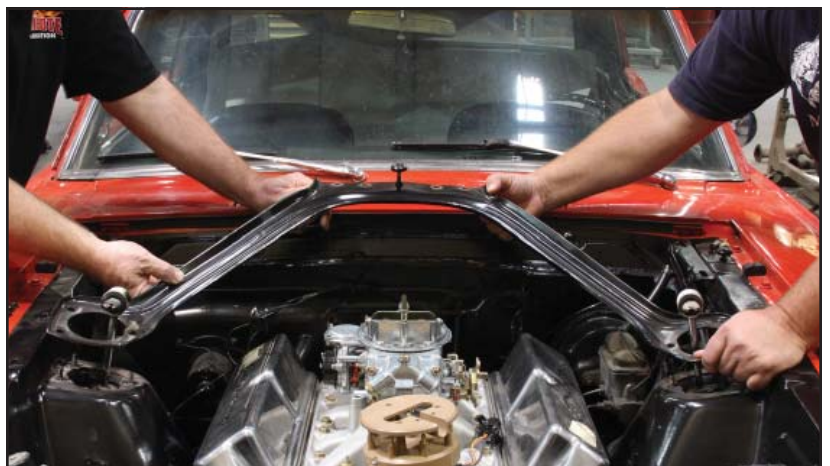
2. Remove the shock mount from the shock tower.



3. Unbolt the factory export brace from the firewall. Some OEM braces may be spot welded to the firewall lip. The spot welds will have to be ground or drilled out to remove the brace.



4. The factory brace can now be removed.
5. Any clean up work or painting in the areas from which the brace was removed must be done at this time.



6. Bolt the firewall bracket to the firewall lip using the existing mounting holes. Secure with 3/8-16 x 1" button head bolts, flat washers and locknuts. Bolts should only be snug to allow the bracket to shift with light force.



7. Using a 3/8" bit, drill through the firewall, using the aluminum bracket as a drill jig.

IMPORTANT: Before drilling, make sure the area behind the hole location is clear of any wiring or insulation. Any obstructions will need to be temporarily moved to complete installation.



8. Secure with 3/8-16 x 1-1/4" button head bolts, flat washers and locknuts. You will need someone on the other side of the firewall to help.



IMAGE: Insulation normally runs up to the top of the firewall and ends at the sheet metal seam. The insulation can be easily pulled down to install the support plate, flat washers, and locknuts.

9. Use flat washers under the bolt head and locknut.
10. Tighten the three bolts that go through the firewall to 30 lb-ft.
11. Tighten the four bolts at the firewall lip to 30 lb-ft.



12. Place the aluminum shock tower plate over the shock and onto the OEM bolts.
13. Place the factory upper shock mount on top of the aluminum shock tower plate.



14. Use OEM hardware to secure the shock mount and shock crossbar.
15. Repeat procedure for opposite side of vehicle.



16. Thread the jam nuts onto the rod ends. The yellow zinc jam nut indicates left-hand threads.
17. Apply a small amount of anti-seize to the threads of each rod end and thread them into the radius rods. The knurled end of radius rod indicates left-hand threads.
18. Leave jam nuts loose.



19. Bolt the radius rod assemblies to the firewall bracket using the 3/8-16 x 1" button head bolts, and locknuts. The rod end mounts below the bracket. Tighten to 30 lb-ft.

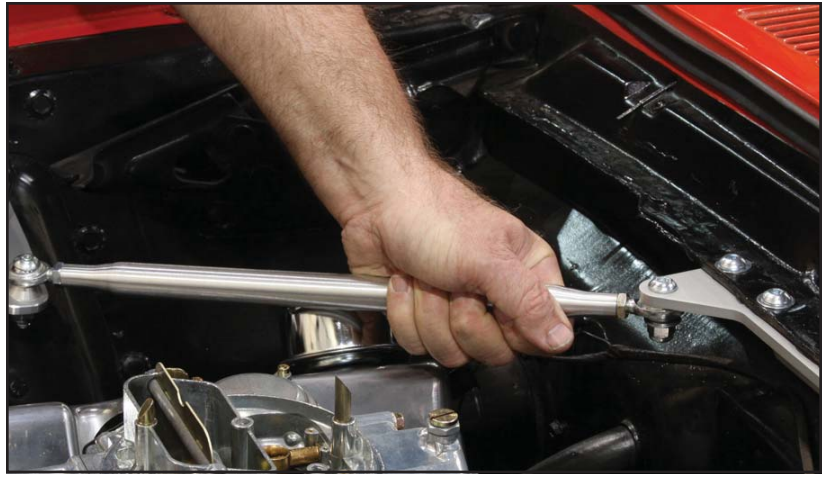
NOTE: The knurled end of each radius rod should be closest to the firewall.



20. To line up the rod end at the shock tower, hold the loose rod and turn the radius rod to adjust the length. Keep the thread engagement of each rod end equal.
21. Place the tapered spacer on the shock tower plate between the rod end and the plate. Secure with 3/8-16 x 1-3/4" button head bolts, and locknut. Tighten to 30 lb-ft.



22. After both rod ends have been mounted, adjust the rod end so that it is not preloaded and can rotate freely.



23. Tighten the jam nuts to 30 lb-ft.

24. Installation is complete.



Ride-Height Variation (Coil-Over Only):

The TCP tower-brace plate can be used with either of the two styles of coil-over suspensions from TCP; bolt-on coil-over or full coil-over conversion. In each style of suspension, the top shock mount directly affects the ride-height.

Placing the **coil-over mount BELOW** the tower-brace plate is the standard ride-height position.

Placing the **coil-over mount ABOVE** the tower-brace plate lowers the ride height approximately 1/2".



Bolt-On Coil-Over mounted BELOW - standard ride height



Full Coil-Over mounted ABOVE - lowered ride height



Full Coil-Over mounted BELOW - standard ride-height

WARRANTY NOTICE:

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INSTALLATION GUIDE



TCP TWRB-02 Fender Monte Carlo Brace 1964-70 Mustang and 1967-70 Cougar



Description: Fender Monte Carlo brace includes fender mounts and adjustable aluminum rods with rod ends

Applications: 1964-70 Mustang and 1967-70 Cougar

Note: Product will not fit late model fuel injection plenum

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PARTS LIST

TCP TWRB-02 Fender Monte Carlo Brace 1964-70 Mustang

Qty	Part Number	Description
1	7907-050-35.00-S	Radius rod 1/2" thread x 35" long aluminum satin finish
1	7918-026.12	Hardware bag 1
1	7918-026.22	Hardware bag 2

7918-026.12 - Hardware Bag 1

Qty	Part Number	Description
8	3101-038-16C	Locknut 3/8-16 nylon insert
2	3101-050-13C	Locknut 1/2-13 nylon insert
1	3102-050-20LY	Jam nut 1/2-20 LH, yellow zinc plated
1	3102-050-20RC	Jam nut 1/2-20 RH, clear zinc plated
4	3104-038C1.00C	3/8-16 x 1" button head cap screw
4	3104-038C1.25C	3/8-16 x 1-1/4" button head cap screw
2	3104-050C1.75C	1/2-13 x 1-3/4" button head cap screw
1	3111-050X050-L	Rod end LH 1/2" thread x 1/2" bore
1	3111-050X050-R	Rod end RH 1/2" thread x 1/2" bore
16	3157-038S-C	Washer 3/8" flat SAE

7918-026.22 - Hardware Bag 2

2	7907-004	Monte Carlo brace fender bracket
2	7907-005	Monte Carlo brace fender bracket support

INSTRUCTIONS

- Center the fender bracket against the angled section along the passenger-side inner fender just behind the battery tray area; approximately 12-1/2" from the rear edge of the radiator support to center of the 1/2" hole.

The top edge of the bracket must be even with bottom of the corner's radius where it meets the flat sheet metal.

Fore/aft position can be varied for individual clearance issues.



- Using a 1/8" bit, drill a hole through the center of one of the holes in the bracket.
- Place the bent steel support bracket into position on the opposite side of the inner fender to verify that the pilot hole is at the correct height. Make adjustments to the pilot hole as necessary.



- Using a 3/8" bit, drill one of the two holes needed to mount the bracket.



- Bolt the aluminum fender bracket and steel support bracket to the inner fender using a 3/8" button-head bolts, two flat washers, and a locknut.



6. Tighten the hardware to 30 lb-ft.



7. Drill the second hole through the inner fender. Make sure the bracket is square to the top of the inner fender.



8. Install the second set of 3/8" mounting hardware and tighten to 30 lb-ft.



9. Place a piece of masking tape on the inner fender above the bracket to help prevent the paint from lifting or chipping.



10. From underneath the fender, use the support bracket as a guide to drill 3/8" diameter holes through the inner fender.
11. Use very light pressure to prevent damaging the paint on the top surface.



12. Install 3/8" button head bolt, two flat washers, and locknut. Tighten to 30 lb-ft.



13. This is the completed fender bracket install on the passenger side.



14. Repeat the procedure for the driver side inner fender.



15. Thread the jam nuts onto the rods ends. The yellow zinc jam nut indicates left-hand threads.
16. Apply a small amount of anti-seize to the rod-end threads.
17. Thread the rod ends completely into radius rod. Knurled end of radius rod indicates left-hand threads.
18. Leave the jam nuts loose.



19. Bolt the radius-rod assembly to the first fender bracket using a 1/2-13 x 1-3/4" button-head bolt, and locknut.



20. Tighten the fasteners to 40 lb-ft.



21. The length of the radius-rod assembly will have to be adjusted to line up with the second bracket. Hold the loose rod end to prevent it from rotating while adjusting. Thread engagement of each rod end must remain equal.
22. Secure the second end of the radius rod and tighten to 40 lb-ft.



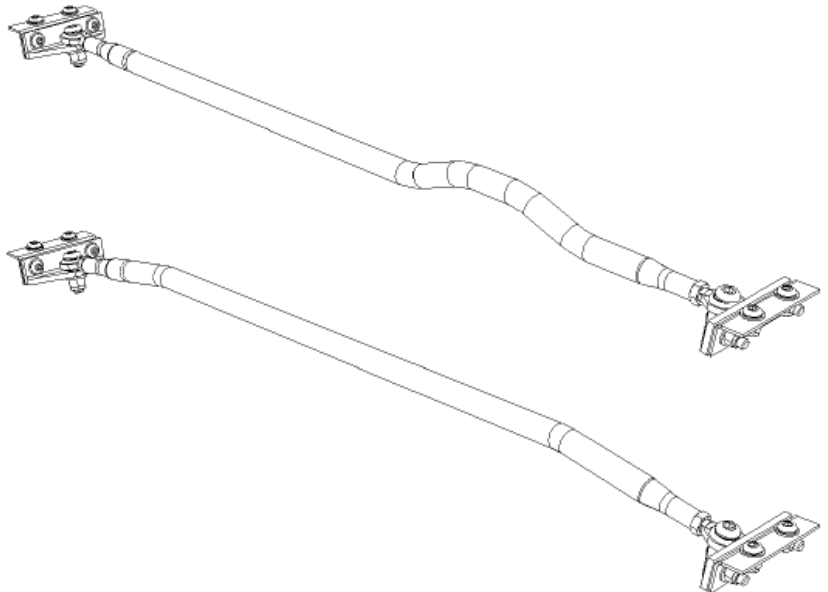
23. Tighten both jam nuts to lock the adjusted length.

24. The install is now complete.



MODIFICATIONS

25. Vehicles equipped with A/C or centrifugal superchargers must bend the radius rod to allow clearance. Performing this modification requires some fabrication skills and the correct dimensions will vary based on application. Overall rod length will shorten as bends are added. Two examples of possible modifications are illustrated.



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INSTALLATION GUIDE



TCP TWRB-03 Tower Truss Support Brace



Description: Truss brace secures shock towers to fender brace straight aluminum tube; includes radius rods; rod ends; & tube clamps.

Applications: Comet '60-'65, Cougar '67-'70, Cyclone '64-'65, Falcon '60-'65, Mustang '64-'70, Ranchero '60-'65; Requires installation of tower export brace (TCP TWRB-01 OR TCP TWRB-04) and fender Monte Carlo brace (TCP TWRB-02 OR TCP TWRB-05)

PARTS LIST

TCP TWRB-03 Tower Truss Brace

Qty	Part Number	Description
2	7907-003	Truss brace 1" tube clamp
2	7907-38-08.00-S	Radius rod 3/8" thread x 8" long aluminum, satin finish
1	7918-027	Hardware bag

7918-027 - Hardware Bag

Qty	Part Number	Description
8	3101-038-16C	Locknut 3/8-16 nylon insert
2	3102-038-24LY	Jam nut 3/8-24 LH, yellow zinc plated
2	3102-038-24RC	Jam nut 3/8-24 RH, clear zinc plated
2	3104-038C1.25C	3/8-16 x 1-1/4" button head cap screw
2	3104-038C1.75C	3/8-16 x 1-3/4" button head cap screw
2	3111-038x038-L	Rod end LH 3/8" thread x 3/8" bore
2	3111-038x038-R	Rod end RH 3/8" thread x 3/8" bore

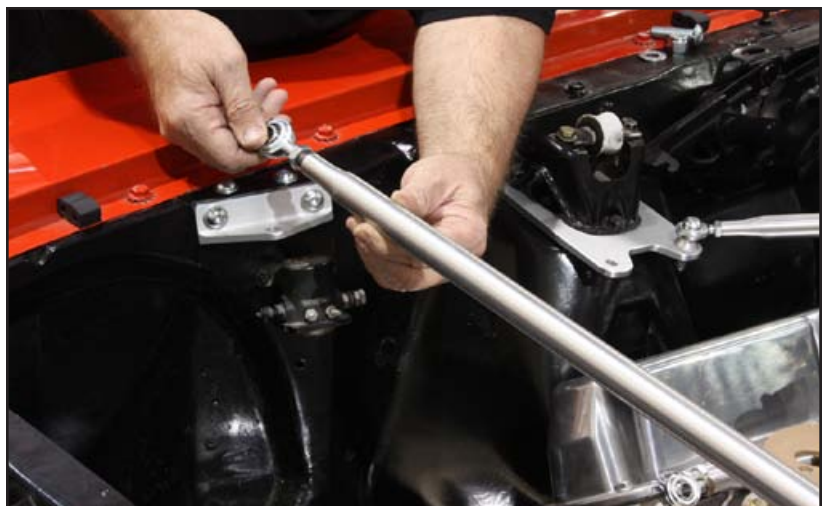
OPTION: TCP TWRB-06 - Tower Brace Tapered Spacer Set (provides additional engine clearance)

2	3104-0381.75	Button head 3/8-16 x 1-3/4" cap screw
2	7907-007	Export brace tapered spacer

INSTRUCTIONS

Installation of the truss brace clamps requires one end of the Monte Carlo brace to be disassembled.

1. Make note of how many threads are visible before the jam nut, so the radius rod can be reassembled to the same length.
2. Unbolt one end of the Monte Carlo brace from the fender bracket.
3. Loosen the jam nut and unscrew the rod end from the radius rod.



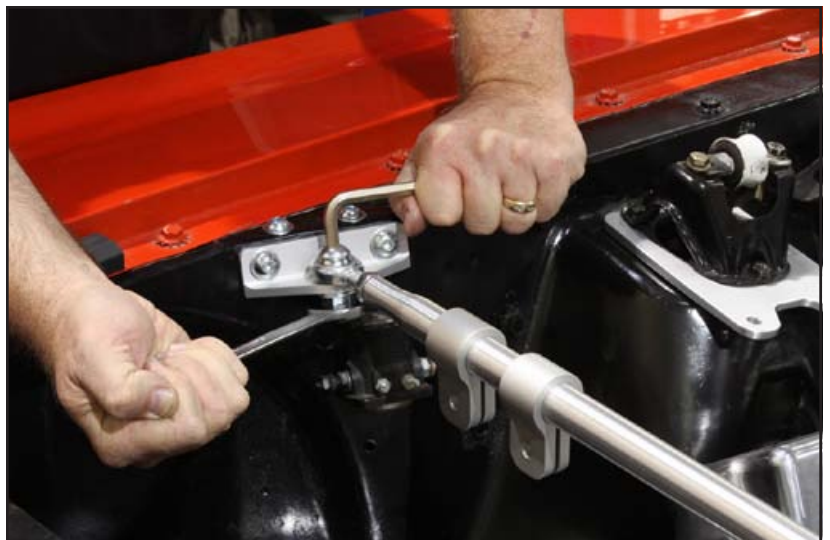
- Slide both tube clamps over the end of the Monte Carlo brace.



- Screw in the rod end to the previous length.



- Bolt the rod end back onto the fender bracket. Tighten to 40 lb-ft.
- Tighten the jam nut.



8. Thread the jam nuts onto the rod ends. The yellow zinc jam nut indicates left-hand thread.
9. Apply a small amount of anti-seize to the rod end threads.
10. Thread the rod ends completely into the radius rods. Knurled end of radius rod indicates left-hand threads. Jam nuts will be tightened after the radius rod assemblies are installed onto the vehicle.



11. Bolt the right-hand threaded end of the radius rod assembly (clear-zinc jam nut end) to the shock tower plate. Use a 3/8-16 x 1" button head bolt and locknut.
12. Tighten to 30 lb-ft.



If you need additional clearance for the valve covers or other accessories the TWRB-06 misalignment kit can be installed. Use a 3/8-16 x 1-3/4" button head bolt, supplied in the kit, and locknut.

Tighten to 30 lb-ft.



13. Bolt the opposite end of the rod to the bottom of the tube clamp, using a 3/8-16 x 1-3/4" button head bolt and locknut.



14. Tighten to 30 lb-ft.



15. Tighten jam nuts.
16. Repeat procedure for the opposite side of the vehicle.



17. The install is complete.



Here the install is complete with the optional misalignment spacer kit TWRB-06.



18. This shows the complete tower brace package installed.



NOTES:

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