



Replacing the Steering Arm on Meritor FF-930 WX-39, -40, -41, -42 or -43 Series Front Axle Assemblies Using Meritor KIT 1440

For Motor Coach Industries (MCI) Coach Models MC-5, MC-7, MC-8, MC-9 Models With Serial Numbers Less Than 41089, and 96A3 Models With Serial Numbers Less Than 41079

How to Identify FF-930 Series Front Axles

Refer to the identification plate mounted on the front center of the axle beam. The following model numbers designate FF-930 series front axles.

- FF-930 WX-39
- FF-930 WX-40
- FF-930 WX-41
- FF-930 WX-42
- FF-930 WX-43

Some MCI coaches also come equipped with 17100 series front axles. 17100 series front axles are not affected by the steering arm replacement program.

Meritor KIT 1440

Use only Meritor KIT 1440 when you replace the steering arm on MCI coaches. Do not use other kits, including Meritor KIT 1429, when you replace the steering arm on MCI coaches.

Refer to the following table for the list of components included in Meritor KIT 1440.

Part Description	Part Number
Replacement Steering Arm	3133-L-7786
7/8-Inch x 1-1/4-Inch – 12 UNF Castellated Nut	1227-C-419
1/8-Inch Washer	1229-U-801
Woodruff Key	16 x 1035
Cotter Pin	K2616
Publication No. TP-2008	—

Verify That the Replacement Steering Arm Will Fit the Vehicle

Steering arms can be damaged when removed from a vehicle. Before you remove the installed steering arm, check the length and up and down offsets to ensure that the replacement steering arm will fit the vehicle. Only remove the installed steering arm after you verify that the replacement arm will fit the vehicle.

Remove the Steering Arm

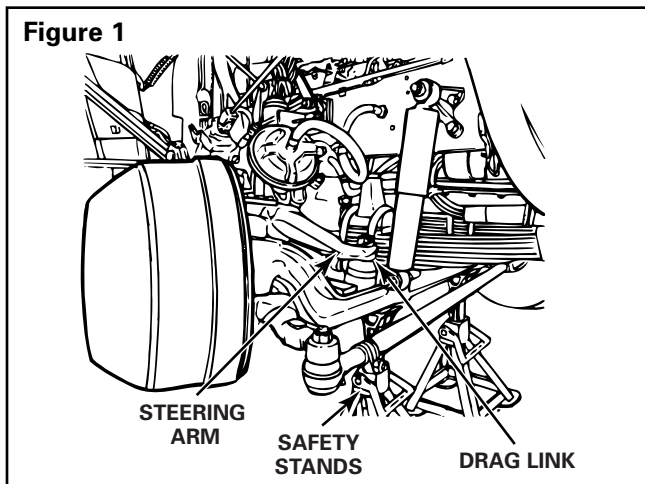


WARNING
To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury can result.

1. Park the vehicle on a level surface. Place blocks in front and behind all wheels to prevent the vehicle from moving.
2. Raise the vehicle, so that the area you will service is off of the ground. Support the vehicle with safety stands. Refer to the vehicle manufacturer's instructions to raise the vehicle.

3. Remove the cotter pin and nut that fasten the steering arm to the drag link. Disconnect the steering arm from the drag link. **Figure 1.**



4. Remove the cotter pin and nut that fasten the steering arm to the knuckle.

WARNING

Do not apply heat to the axle when you remove the steering arm. Applying heat to the axle can weaken the axle beam. Serious personal injury and damage to components can result.

Use a brass or leather mallet for assembly and disassembly procedures. Do not hit steel parts with a steel hammer. Pieces of a part can break off and cause serious personal injury.

5. Remove the steering arm from the knuckle. If necessary, tap on the end of the arm with a leather or plastic mallet to separate the arm from the knuckle.

NOTE: During production a square key was installed to align the steering arm. You must remove and replace the square key with a new woodruff-style key before you install the replacement steering arm.

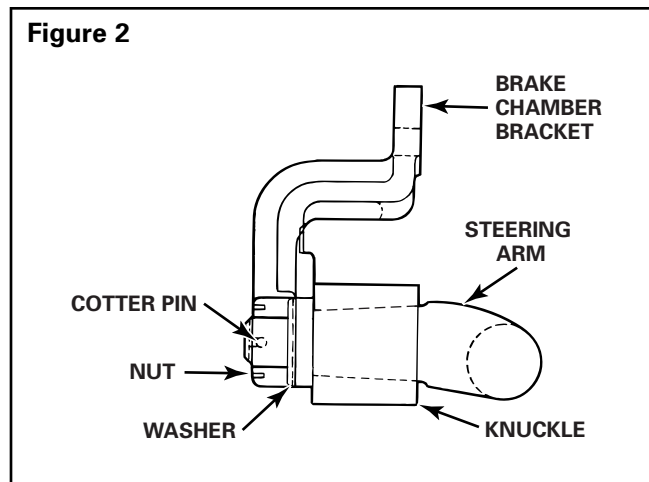
6. Remove and discard the steering arm and square key.

Replace the Steering Arm

1. Install the woodruff key into the slot in the new steering arm. The key is included in Meritor KIT 1440.
2. Install the steering arm into the knuckle. **Figure 2.**

NOTE: The steering arm also retains the brake chamber bracket and requires a flat washer and castellated nut as specified in Step 3 below.

3. Install the brake chamber bracket, a 1/8-inch washer (part number 1229-C-801) and 7/8-inch x 1.125-inch-12 UNF castellated nut (part number 1227-C-419) included in Meritor KIT 1440. **Figure 2.**
4. Use a torque wrench to tighten the 7/8-inch x 1.125-inch-12 UNF castellated nut to 550 lb-ft (746 N•m). **T**
5. When you reach 550 lb-ft (746 N•m), continue to tighten the nut until the castellations align with the first available cotter pin hole. Do not exceed 1025 lb-ft (1389 N•m) when you tighten the nut. **T**
6. Install the cotter pin. Bend the ends of the pin over the hex nut. Check that the cotter pin is positioned in the slots of the hex nut. **Figure 2.**



7. Refer to the vehicle manufacturer's instructions to install the drag link.
8. Check that the steering arm operates correctly.
9. Remove the safety stands. Lower the vehicle.



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