

Section	Section Number
Electric Wipers, Trico . . . . .	82.00



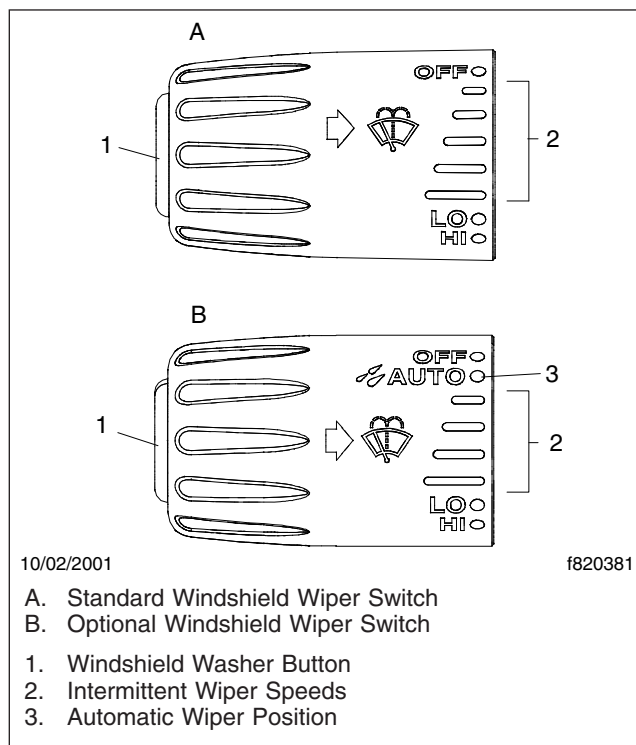
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## General Information

The windshield wipers are operated by a switch at the end of the turn signal lever. See [Fig. 1](#). To turn the windshield wipers on, turn the switch to the low speed, high speed, or any of the intermittent speeds. An optional automatic position will turn the windshield wipers on when rain is detected.

The windshield washer is operated by pressing the windshield washer button on the end of the windshield wiper switch. When the washer button is pressed less than 0.5 of a second, the wiper/washer provides one dry wipe or mist. When the washer button is pressed for 0.5 to 1.0 second, the wiper/washer provides three wipes and a wash. When the washer button is held in, the wash cycle will continue until the washer button is released.



**Fig. 1, Windshield Wiper Switches**



## Unitizing Tube Replacement

## Replacement

1. Turn off the engine, apply the parking brakes, and chock the rear tires.
2. Make sure the wiper blades are parked. If necessary, park them by turning the wipers on and then off.

**WARNING**

**Disconnect the batteries before working on the wiper assembly. This will prevent the windshield wiper motor from cycling. The motor could cycle if the wiper linkage driveshaft is forced out of the parked position, which could result in personal injury.**

3. Disconnect the batteries.

4. Open the hood.

NOTE: The wiper arms are different lengths. Note which wiper arm belongs on the right and left sides.

5. Remove the wiper arms and washer hoses.
6. Remove the fasteners that attach the unitizing tube to the cab. See [Fig. 1](#).
7. Disconnect the wiring harness from the wiper motor.
8. Remove the unitizing tube.
9. Remove the nut and lockwasher that attach the motor lever to the wiper motor. Remove the motor lever.
10. Remove the seals and connecting arms from the pivot levers.
11. Remove the capscrews that attach the wiper motor to the wiper motor bracket. Remove the wiper motor.
12. Using capscrews, attach the wiper motor to the wiper motor bracket on the new unitizing tube.
13. Using a nut and lockwasher, attach the motor lever to the wiper motor. Torque the nut 9 to 12 lbf·ft (12 to 16 N·m).
14. Inspect the seals for wear and damage. Replace if necessary.
15. Attach the seals and connecting arms to the pivot levers.

16. Connect the wiring harness to the wiper motor.
17. Using fasteners, attach the unitizing tube to the cab.
18. Attach the wiper arms to the wiper pivot shafts.
19. Connect the batteries.
20. Lower the hood.
21. Remove the chocks from the tires.

## Unitizing Tube Replacement

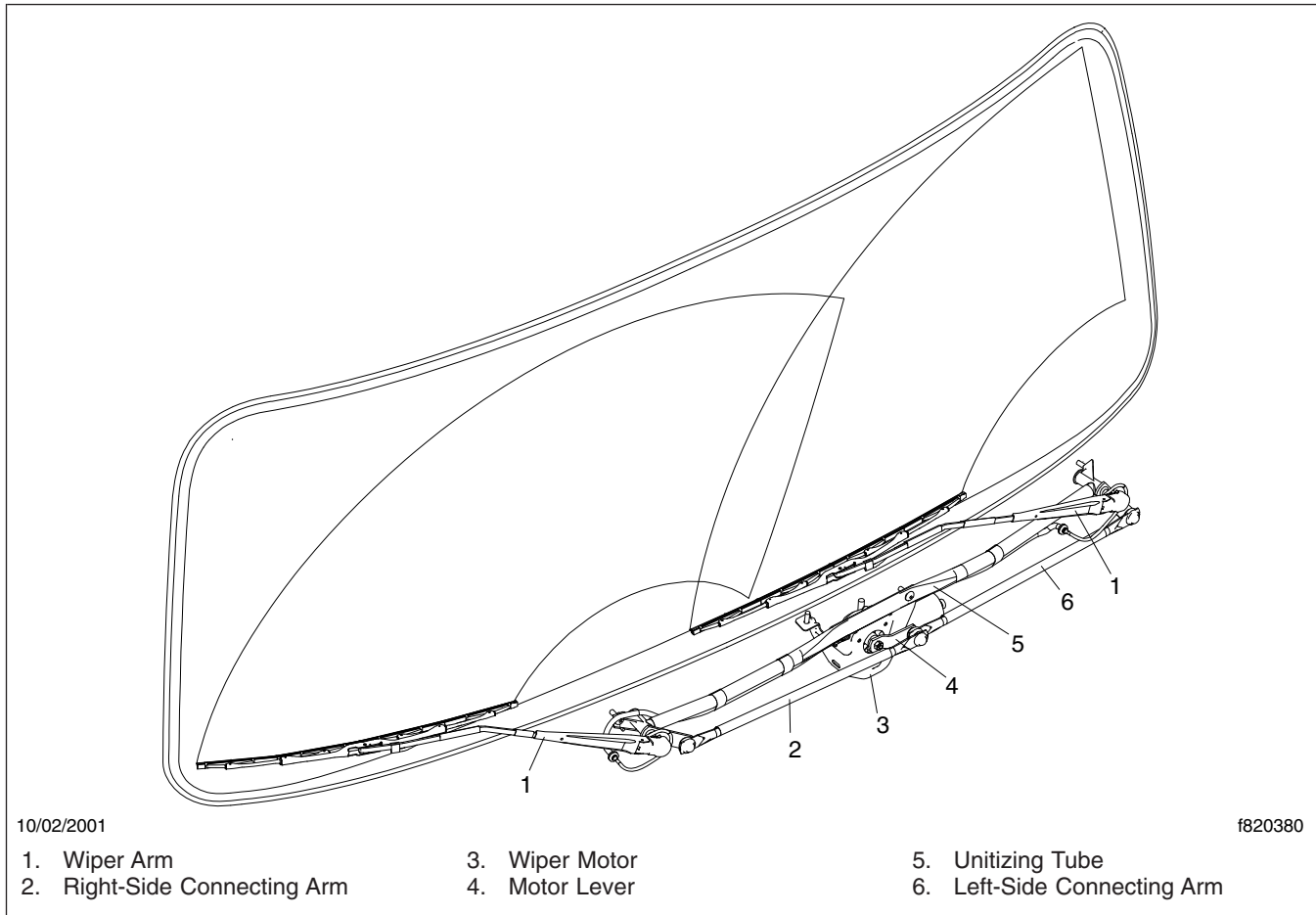


Fig. 1, Wiper Assembly



## Replacement

1. Turn off the engine, apply the parking brakes, and chock the rear tires.



### WARNING

**Disconnect the batteries before working on the wiper assembly. This will prevent the windshield wiper motor from cycling. The motor could cycle if the wiper linkage driveshaft is forced out of the parked position, which could result in personal injury.**

2. Disconnect the batteries.
3. Open the hood.
4. Remove the seals and connecting arm from the pivot lever and motor lever. See [Fig. 1](#).
5. Inspect the seals for wear and damage. Replace if necessary.
6. Use grease to lubricate the inner diameter of the open socket on the connecting arm. See [Fig. 2](#).
7. Fill the ball stud and socket interface with grease.
8. Attach the connecting arm to the pivot lever and motor lever.
9. Lower the hood.
10. Connect the batteries.
11. Remove the chocks from the tires.

## Connecting Arm Replacement

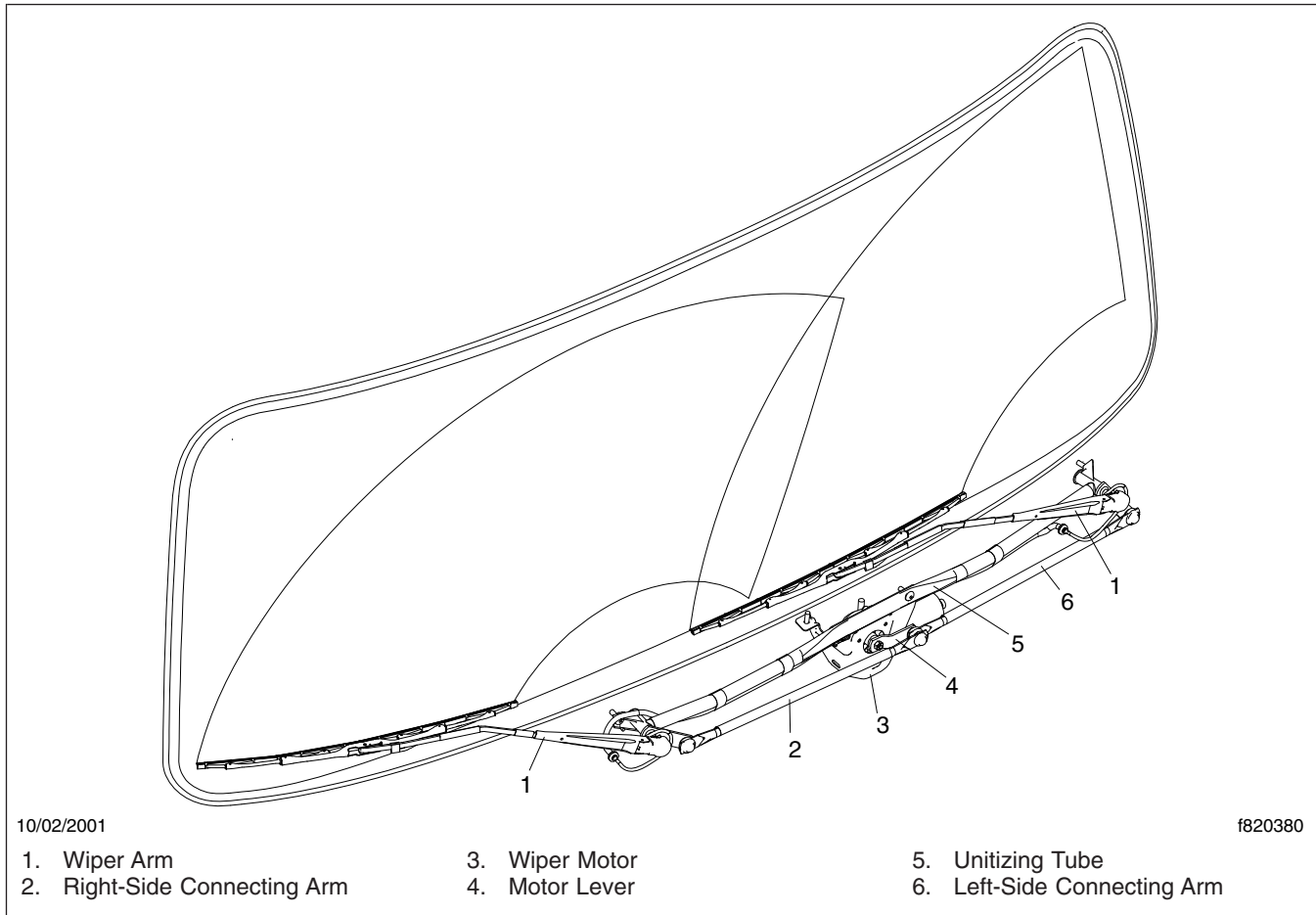
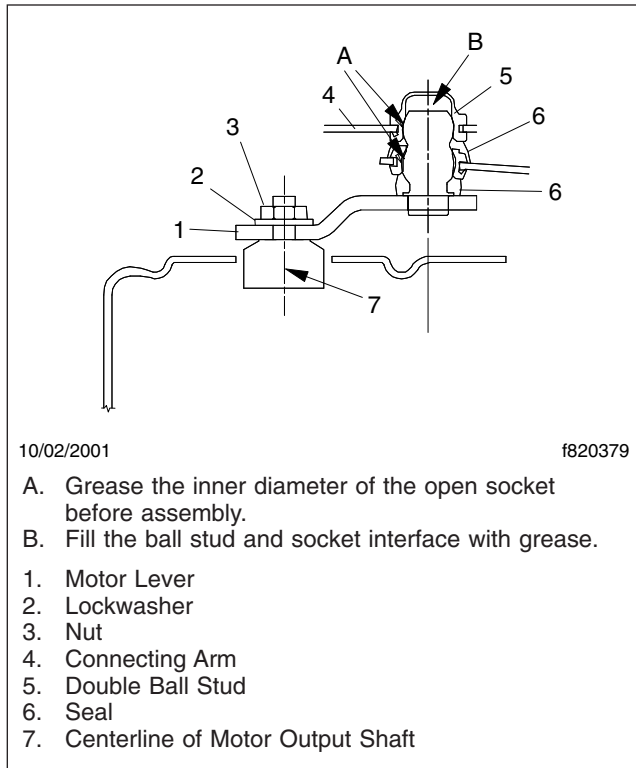


Fig. 1, Wiper Assembly

## Connecting Arm Replacement

**Fig. 2, Wiper Motor Output Shaft Detail**



## Wiper Motor Replacement

## Replacement

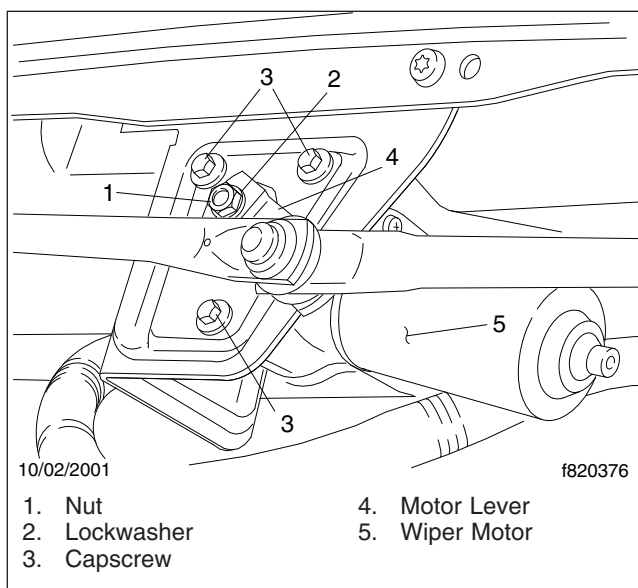
1. Turn off the engine, apply the parking brakes, and chock the rear tires.
2. Make sure the wiper blades are parked. If necessary, park them by turning the wipers on and then off.

**⚠ WARNING**

**Disconnect the batteries before working on the wiper assembly. This will prevent the windshield wiper motor from cycling. The motor could cycle if the wiper linkage driveshaft is forced out of the parked position, which could result in personal injury.**

3. Disconnect the batteries.
4. Open the hood.
5. Remove the nut and lockwasher that attach the motor lever to the wiper motor. See [Fig. 1](#). Remove the motor lever.

8. Connect the wiring harness to the new wiper motor.
9. Using capscrews, attach the wiper motor to the mounting bracket.
10. Using a nut and lockwasher, attach the motor lever to the wiper motor. Torque the nut 9 to 12 lbf-ft (12 to 16 N·m).
11. Connect the batteries.
12. Lower the hood.
13. Remove the chocks from the tires.



**Fig. 1, Wiper Motor Assembly**

6. Remove the capscrews that attach the wiper motor to the mounting bracket.
7. Disconnect the wiring harness from the wiper motor. Remove the wiper motor.



## Washer Reservoir Replacement

## Replacement

1. Turn off the engine, apply the parking brakes, and chock the rear tires.
2. Disconnect the batteries.
3. Open the hood.
4. Remove the washer reservoir cap.
5. Remove the Torx® fasteners that attach the washer reservoir cover to the right side of the cab. See **Fig. 1**. Remove the cover.

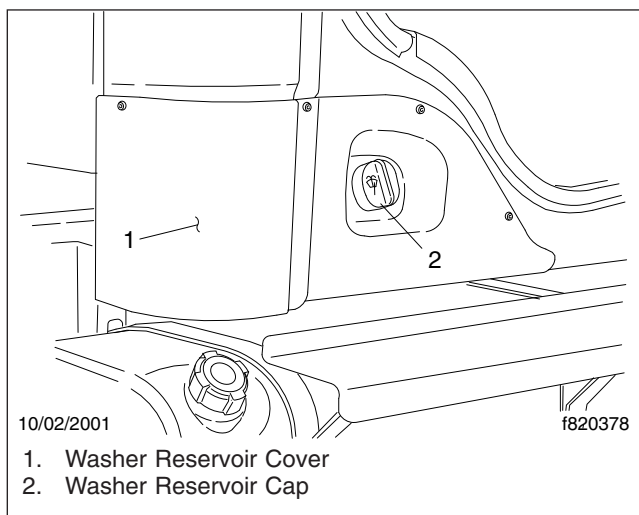


Fig. 1, Washer Reservoir Cover

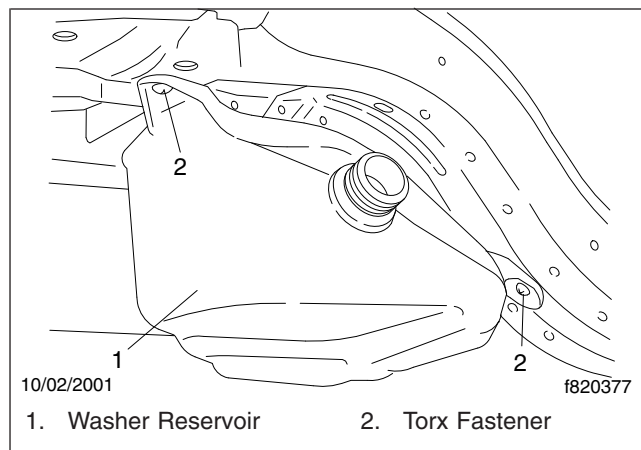


Fig. 2, Washer Reservoir

13. Attach the wiring harness to the pump.
  14. Using Torx fasteners and a nut, attach the washer reservoir to the cab.
  15. Fill the washer reservoir with washer fluid if necessary. If the washer hose was removed, connect the short washer hose to the pump.
  16. Using Torx fasteners, attach the washer reservoir cover to the right side of the cab.
  17. Lower the hood.
  18. Remove the chocks from the tires.
6. Drain the washer reservoir if necessary.
    - 6.1 Place a container under the washer reservoir.
    - 6.2 Remove the washer hose from the pump and attach a hose long enough to reach the container.
  7. Remove the wiring harness from the washer reservoir pump.
  8. Remove the washer fluid line from the washer reservoir.
  9. Remove the nut and Torx fasteners that attach the washer reservoir to the cab. See **Fig. 2**
  10. Remove the pump from the washer reservoir.
  11. Attach the pump to the new washer reservoir.
  12. Attach the washer fluid line to the washer reservoir.

