



Thor Motor Coach Recall Repair Instructions

Recall #	18V-705 2018-556		
Description/Title:	MY 2013 Wiper System Recall		
Affected Product Line(s):	Certain Model Year 2013 ACE, Challenger, Daybreak, Hurricane, Outlaw, Palazzo, Tuscany, and Windsport motorhomes		
Service Campaign # :	RC000161	Released Date:	11/16/2018
Failure Code:	Inspect: TMCRC80476Y Repair: TMCRC80476V	Document Date:	11/16/2018
Time Allowed:	Inspect: 0.2 Repair: 0.5	Document Revision:	A

Issue:

It has been decided that the windshield wiper system on certain 2013 model year motorhomes may have been incorrectly installed and secured at the time of manufacture.

NOTE: TAKE CARE WHEN REMOVING AND REINSTALLING ITEMS. TMC WILL NOT COVER ANY DAMAGES INCURRED DURING THE COMPLETION OF THE PROCESS.

Instructions:

Please refer to following pages for the appropriate motorhome inspect/repair instructions:

Page 2: Gas Motorhomes (ACE, Challenger, Hurricane, Outlaw, Windsport)

Page 3: Daybreak, Palazzo Motorhomes

Page 4: Tuscany Motorhomes

THOR MOTOR COACH WEXCO WINDSHIELD WIPER INSPECTION/REPAIR INSTRUCTIONS

APPLIES TO: 2013 MODEL YEAR - ACE, CHALLENGER, HURRICANE, OUTLAW, WINDSPORT

1.) Visually inspect wiper system arm placement. If arms are loose, please follow the torquing requirements. If after torquing, the wiper system is still not functioning properly, follow the steps below for further troubleshooting and repair. If at any time during the repair process, you notice damage to the system, the system must be replaced.

2.) Remove wiper arms per the following instructions:

A. Remove pivot nut for wiper arm and use channellocks or a small 2 jaw puller and attach the "Pulling Fingers" under the bottom side of the wiper arm head and use the center most point of the pivot shaft as the leverage point and remove the wiper arm.

B. Wiper arms may be reused multiple times and reinstalled in any desired position. New splines will be formed by the hard shaft into the softer arm head.



3.) Remove the acorn nut from pivot shaft using a 9/16" socket.

4.) Remove fiber washer and flat washer.



5.) Verify holes in the fiberglass front cap are not interfering with the pivot shaft. (Pivot shaft must not be bound or under pressure) If pivot shafts appear to be interfering with fiberglass cap remove system entirely and redrill with hole saw to eliminate interference and place hole in proper position for the wiper system (DO NOT OVERDRILL). Pivot shaft only needs 1/16" of clearance to edge of hole.



ACCEPTABLE 
NOT ACCEPTABLE 

6.) If pivot shaft alignment does not show any signs of binding with the pivot shaft hole in the front cap, verify that the wiper stringer plate sits flush against the backer laminated into the inside of the front cap. If there is a gap between the face of the stringer plate and the laminated backer, remove system and sand backer with 80 grit sandpaper so that system will sit flush.



BACKER
WIPER STRINGER PLATE

(2) 1/4" x 1" LAG SCREW PER PIVOT SHAFT

7.) Verify all required screws are in place. (2 per pivot shaft) Screw size is 1/4" x 1" lag screw.

8.) Reinstall pivot shaft washers and nuts from steps 3 and 4 on exterior of cap.

9.) Tighten pivot rod nut to fiberglass cap per the torque chart below.

10.) Reinstall driver side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.

11.) Reinstall passenger side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.

12.) Test windshield wiper system at all speeds with a water hose providing ample amounts of water. Wiper blades should not bind nor touch the windshield gasket at any point.

13.) If wipers have too much travel and touch gasket, replace pivot shaft arm.

14.) If wipers have too much travel and touch gasket, replace complete windshield wiper system (as needed).

If complete wiper system is needed, please contact TMC for additional parts and labor. (877) 500-1020

	TORQUE (FT-LBS)	
	WIPER ARM TO PIVOT ROD	PIVOT ROD TO FIBERGLASS CAP
WEXCO	10	15

THOR MOTOR COACH DIESEL EQUIPMENT WINDSHIELD WIPER INSPECTION/REPAIR INSTRUCTIONS

APPLIES TO: 2013 MODEL YEAR - DAYBREAK, PALAZZO

1.) Visually inspect wiper system arm placement. If arms are loose, please follow the torquing requirements. If after torquing, the wiper system is still not functioning properly, follow the steps below for further troubleshooting and repair. If at any time during the repair process, you notice damage to the system, the system must be replaced.


2.) If visually acceptable, remove wiper arms per the following instructions:

A. Remove pivot nut for wiper arm and use channellocks or a small 2 jaw puller and attach the "Pulling Fingers" under the bottom side of the wiper arm head and use the center most point of the pivot shaft as the leverage point and remove the wiper arm.


B. It is not recommended that the wiper arm be reused after removal. Due to the design of the wiper arm head and the taper tolerance in the wiper arm head will be at maximum tolerance after the initial installation.


3.) Remove the nut from pivot shaft using a socket wrench.


4.) Remove washers.




5.) Verify holes in the fiberglass front cap are not interfering with the pivot shaft. (Pivot shaft must not be bound or under pressure) If pivot shafts appear to be interfering with fiberglass cap remove system entirely and redrill with hole saw to eliminate interference and place hole in proper position for the wiper system (DO NOT OVERDRILL). Pivot shaft only needs 1/16" of clearance to edge of hole.



ACCEPTABLE 

NOT ACCEPTABLE 

6.) If pivot shaft alignment does not show any signs of binding with the pivot shaft hole in the front cap, verify that the wiper stringer plate sits flush against the backer laminated into the inside of the front cap. If there is a gap between the face of the stringer plate and the laminated backer, remove system and sand backer with 80 grit sandpaper so that system will sit flush.



BACKER
WIPER STRINGER PLATE

7.) Reinstall pivot shaft washers and nuts from steps 3 and 4 on exterior of cap.

8.) Tighten pivot rod nut to fiberglass cap per the torque chart below.

9.) Reinstall driver side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.

10.) Reinstall passenger side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.

11.) Test windshield wiper system at all speeds with a water hose providing ample amounts of water. Wiper blades should not bind nor touch the windshield gasket at any point.

12.) If wipers have too much travel and touch gasket, replace complete windshield wiper system (as needed). If complete wiper system is needed, please contact TMC for additional parts and labor. (877) 500-1020

TORQUE (FT-LBS)	
WIPER ARM TO PIVOT ROD	PIVOT ROD TO FIBERGLASS CAP
DIESEL EQPT	25

THOR MOTOR COACH AM EQUIPMENT WINDSHIELD WIPER INSPECTION/REPAIR INSTRUCTIONS

APPLIES TO: 2013 MODEL YEAR TUSCANY



- 1.) Visually inspect wiper system arm placement. If arms are loose, please follow the torquing requirements. If after torquing, the wiper system is still not functioning properly, follow the steps below for further troubleshooting and repair. If at any time during the repair process, you notice damage to the system, the system must be replaced.
- 2.) If visually acceptable, remove wiper arms per the following instructions:
 - A. Remove pivot nut for wiper arm and use channellocks or a small 2 jaw puller and attach the "Pulling Fingers" under the bottom side of the wiper arm head and use the center most point of the pivot shaft as the leverage point and remove the wiper arm.
 - B. Wiper arms can be reinstalled after removal.

- 3.) Remove the hex head cap nut from pivot shaft.
- 4.) Remove washers.



- 5.) Verify holes in the fiberglass front cap are not interfering with the pivot shaft. (Pivot shaft must not be bound or under pressure) If pivot shafts appear to be interfering with fiberglass cap remove system entirely and redrill with hole saw to eliminate interference and place hole in proper position for the wiper system (DO NOT OVERDRILL). Pivot shaft only needs 1/16" of clearance to edge of hole.



ACCEPTABLE 
 NOT ACCEPTABLE 

- 6.) If pivot shaft alignment does not show any signs of binding with the pivot shaft hole in the front cap, verify that the wiper stringer plate sits flush against the backer laminated into the inside of the front cap. If there is a gap between the face of the stringer plate and the laminated backer, remove system and sand backer with 80 grit sandpaper so that system will sit flush.



BACKER
WIPER STRINGER PLATE

- 7.) Tighten pivot rod nut to fiberglass cap per the torque chart below
- 8.) Reinstall driver side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.
- 9.) Reinstall passenger side wiper arm so that blade is horizontal. Torque wiper arm nut to pivot shaft per the torque chart below.
- 10.) Test windshield wiper system at all speeds with a water hose providing ample amounts of water. Wiper blades should not bind nor touch the windshield gasket at any point.
- 12.) If wipers have too much travel and touch gasket, replace complete windshield wiper system (as needed). If complete wiper system is needed, please contact TMC for additional parts and labor. (877) 500-1020

TORQUE (FT-LBS)	
	PIVOT ROD TO FIBERGLASS CAP
AM Equipment	20
	WIPER ARM TO PIVOT ROD
	10