

# Rear HVAC Vents Blow Hot Air with A/C "ON"

**Service Category** Vehicle Interior

**Section** Heating/Air Conditioning

**Market** USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2008	Camry HV	
2007	Camry	

### TSB SUPERSESSION NOTICE

The information contained in this TSB supersedes TSB No. AC001-08.

- Applicability has been updated to include 2008 model year Camry HV.
- Production Change Information has been updated.
- Warranty Information has been updated.
- Part numbers have been updated in the Parts Information table.
- Repair Applicability and the Repair Procedure have been revised and updated.

TSB No. AC001-08 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this service bulletin before proceeding.

## Introduction

Some customers may experience a condition where the rear center vents blow warmer air than the front center vents. A new HVAC servo motor and A/C amplifier have been designed to correct this concern. Follow the procedures listed in this bulletin to remove and replace the HVAC servo motor and A/C amplifier.

## Production Change Information

This TSB applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	DRIVETRAIN	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Camry XLE	4-cylinder	CBU	JTNBE46K*73109961
	V6		JTNBK46K*73027900
	All	TMMK	4T1B*46K*7U707324

## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Production Change Information (Continued)

MODEL	DRIVETRAIN	PLANT	PRODUCTION CHANGE EFFECTIVE VIN
Camry HV	4-cylinder	CBU	JTNBB46K*83045613
		TMMK	4T1BB46K*8U032497

### Warranty Information

OP CODE	DESCRIPTION	REPAIR PROCEDURE	MODEL CODE	TIME	OFP	T1	T2
870551	R & R Damper Servo Sub-assembly	A	ACV40	6.5	87106-#####	7A	50
			AHV40	6.5			
			GSV40	6.4			
883821	R & R A/C Amplifier Assembly	B	ALL	0.3	88650-#####		
AC8010	R & R A/C Amplifier Assembly and Damper Servo Sub-assembly	A and B	ACV40	6.8	88650-#####		
			AHV40	6.8			
			GSV40	6.7			

#### APPLICABLE WARRANTY

- This repair is covered under the Toyota Comprehensive Warranty. This warranty is in effect for 36 months or 36,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to correction of a problem based upon a customer's specific complaint.

## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PLANT	PART NAME	QTY
87106-33250	87106-33290	CBU	Servo Sub-assembly, Damper	1
87106-07110	87106-06250	TMMK		1
88650-33690	88650-33691	CBU	Amplifier Assembly, Air Conditioner	1
88650-33710	88650-33711			1
88650-33770	88650-06261			1
88650-33771				
88650-06120	88650-06121	TMMK		1
88650-06140	88650-06141			1
88650-06260	88650-06261			1

### Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	QTY
Robinair ROB34200* (or equivalent)	R-134a Refrigerant Recovery/Recycling Machine	1

\* Toyota Approved Dealer Equipment

#### NOTE

Additional refrigerant service equipment may be ordered by calling Toyota Approved Dealer Equipment (ADE) at 1-800-368-6787.

### Repair Applicability

Please refer to the following tables to determine the proper method of repair.

REPAIR DESCRIPTION	REPAIR PROCEDURE
Remove & Replace Damper Servo Sub-assembly	A
Remove & Replace A/C Amplifier	B
Remove & Replace A/C Amplifier and Damper Servo Sub-assembly	A and B

## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Applicability (Continued)

MODEL	PLANT	DRIVETRAIN	VIN RANGE	REPAIR PROCEDURE
Camry XLE	CBU	4-cylinder	Up to JTNBE46K*73108099	A and B
			JTNBE46K*73108099 – JTNBE46K*73109961	B
		V6	Up to JTNBK46K*73027563	A and B
			JTNBK46K*73027563 – JTNBK46K*73027900	B
	TMMK	All	Up to 4T1B*46K*7U686554	A and B
			4T1B*46K*7U686554 – 4T1B*46K*7U707324	A
Camry HV	CBU	All	Up to JTNBB46K*73037524	A and B
			JTNBB46K*73037524 – JTNBB46K*83045613	B
	TMMK		Up to 4T1BB46K*7U024002	A and B
			4T1BB46K*7U024002 – 4T1BB46K*8U032497	B

## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly

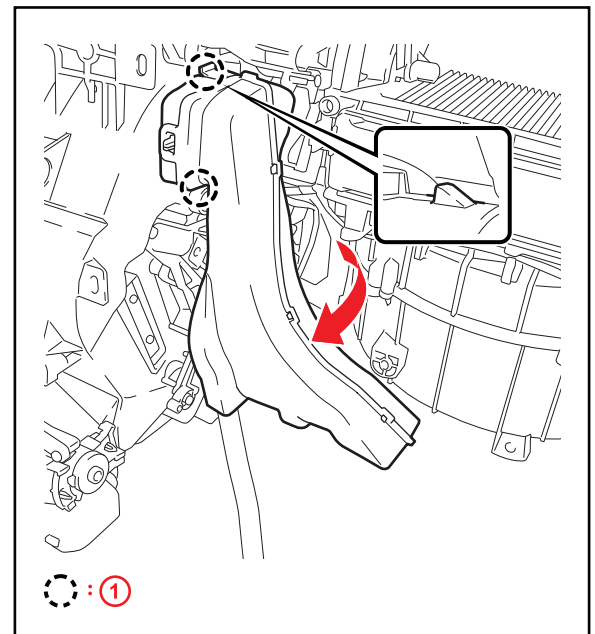
1. Remove the air conditioning unit.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

- [2007](#) model year Camry Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Unit: Removal”*
- 2007 or 2008 model year Camry HV Repair Manual, [\(TMMK\)](#) / [\(TMC\)](#) *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Unit: Removal”*

2. Remove the No. 2 air duct sub-assembly by releasing the 2 claws as shown in Figure 1.

Figure 1.



1	Claw
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3. Remove the blower assembly.

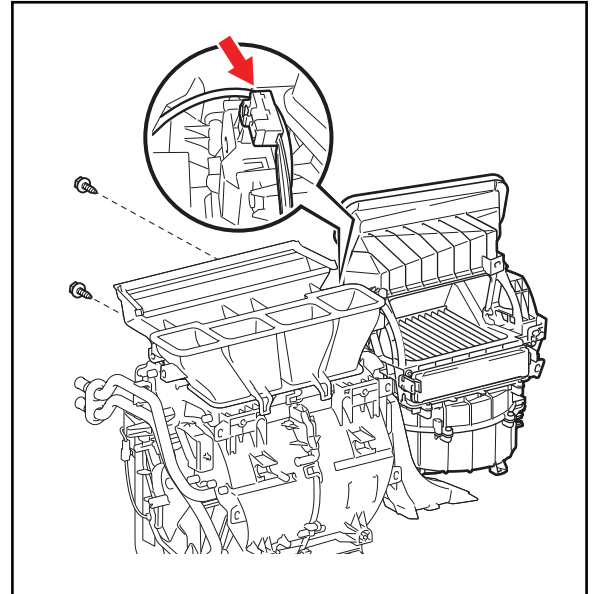
## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

#### A. For TMC-built (CBU) vehicles:

- (1) Disconnect the connector.
- (2) Remove the 2 screws and blower assembly.

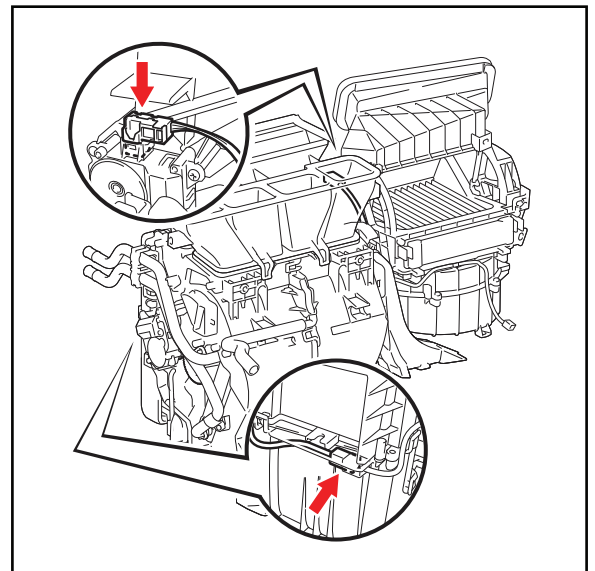
Figure 2.



#### B. For TMMK-built vehicles:

- (1) Using a 4-mm hexagon wrench, remove the 2 hexagon bolts and the cooler expansion valve.
- (2) Remove the connector and clamp, and disconnect the wire harness.

Figure 3.

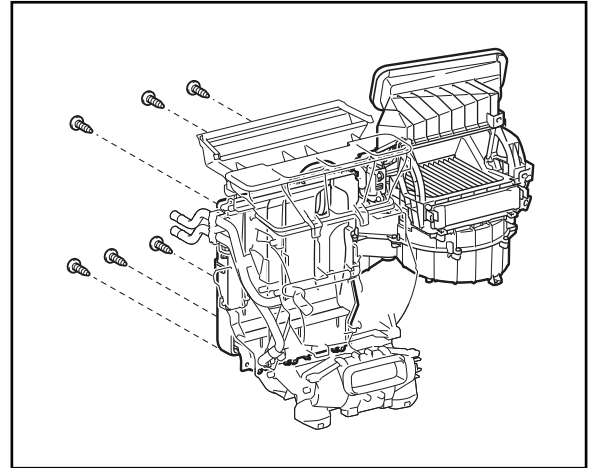


## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

- (3) Remove the 6 screws and then the blower assembly with the cooler-evaporator sub-assembly.

Figure 4.

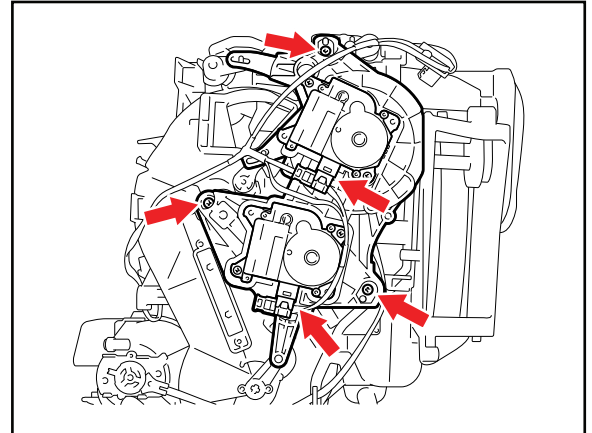


4. Remove the air outlet control servo motor.

#### A. For TMC-built (CBU) vehicles:

- (1) Disconnect the 2 connectors and remove the air conditioner harness.
- (2) Remove the 3 screws and then remove the air outlet control servo motor.

Figure 5.



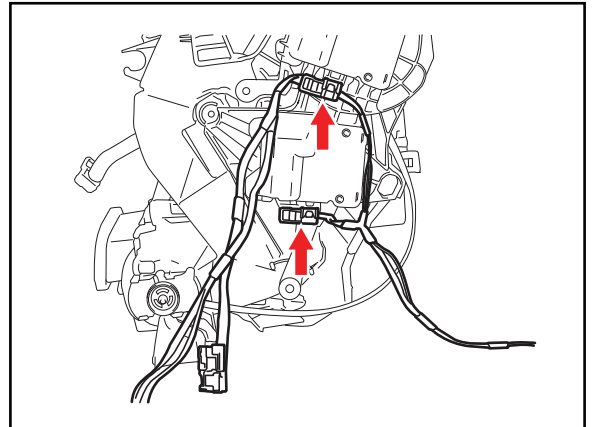
## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

#### B. For TMMK-built vehicles:

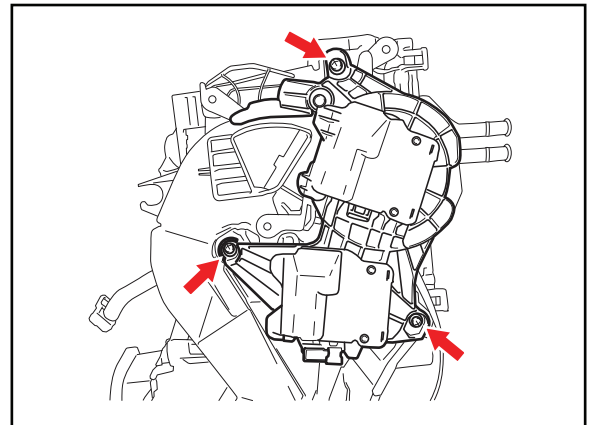
- (1) Disconnect the 2 connectors and remove the air conditioner harness.

Figure 6.



- (2) Remove the 3 screws and then remove the air outlet control servo motor.

Figure 7.





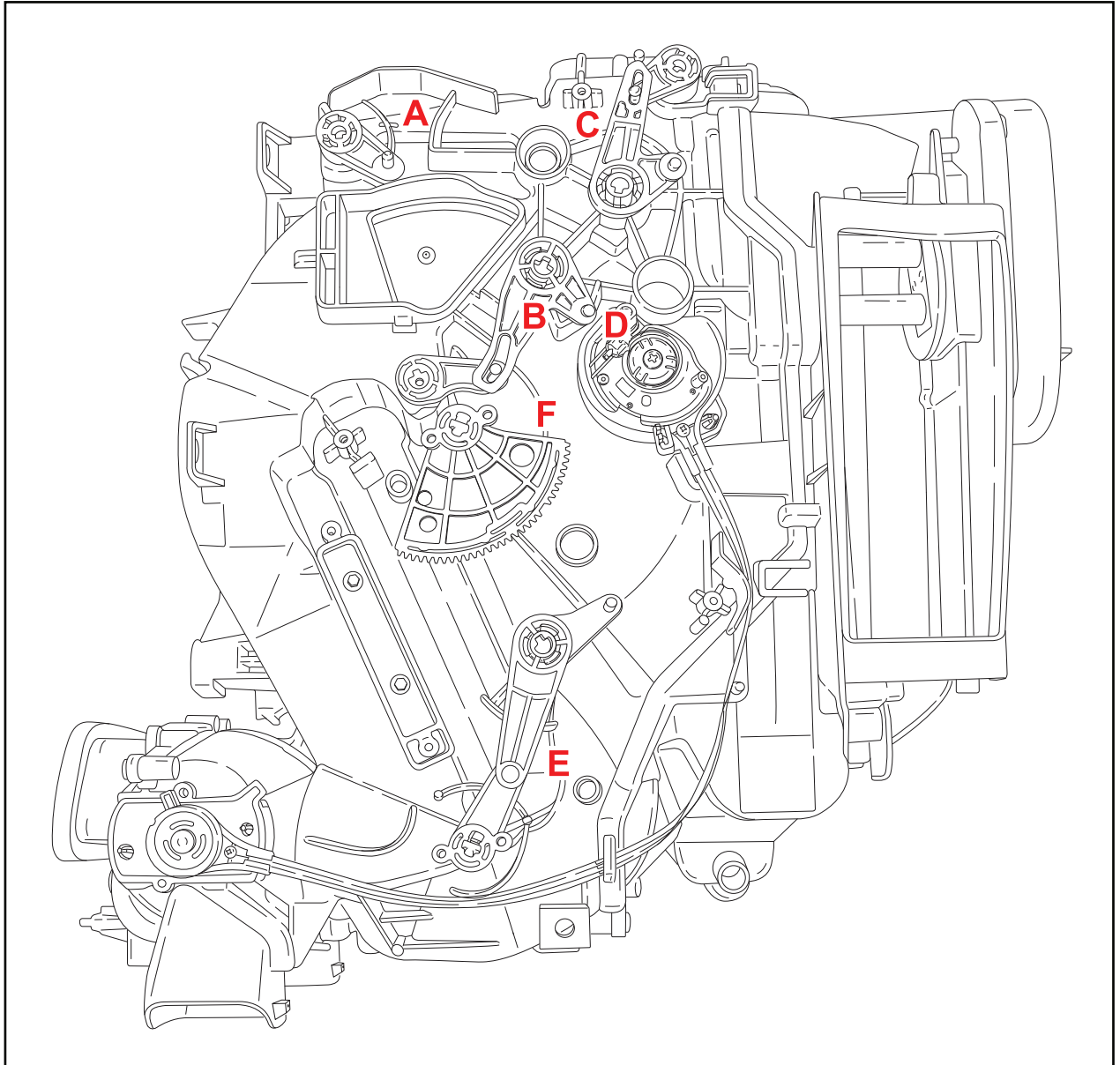
## Rear HVAC Vents Blow Hot Air with A/C "ON"

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### Repair Procedure A: Damper Servo Sub-assembly (Continued)

5. Install the NEW air outlet control servo motor.
  - A. Align the air conditioning unit servo arms and gears.

Figure 8.

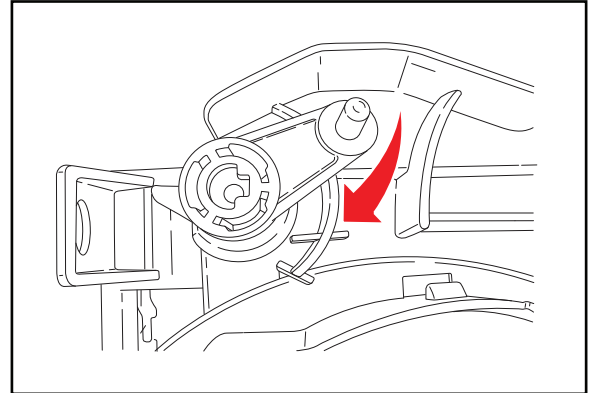


## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

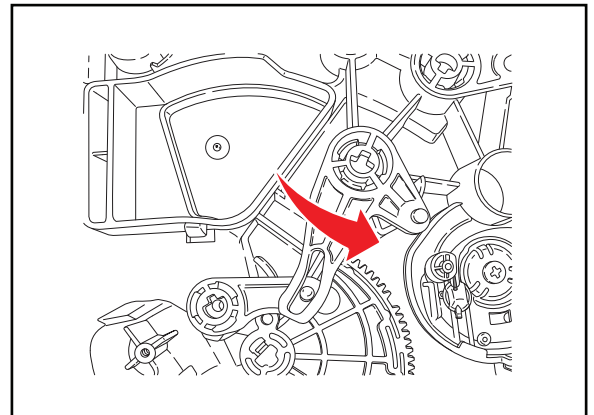
- (1) Rotate arm "A" clockwise until the end of travel.

Figure 9. Arm "A"



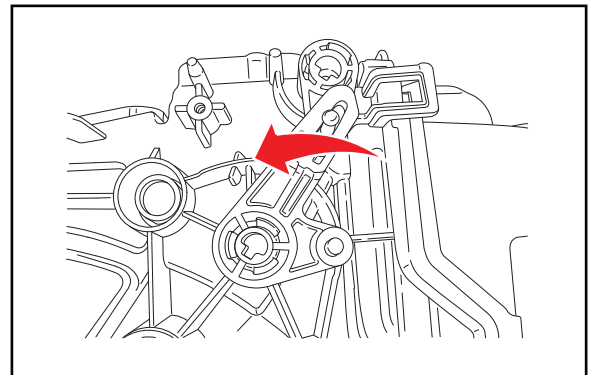
- (2) Rotate arm "B" counterclockwise until the end of travel.

Figure 10. Arm "B"



- (3) Rotate arm "C" counterclockwise until the end of travel.

Figure 11. Arm "C"

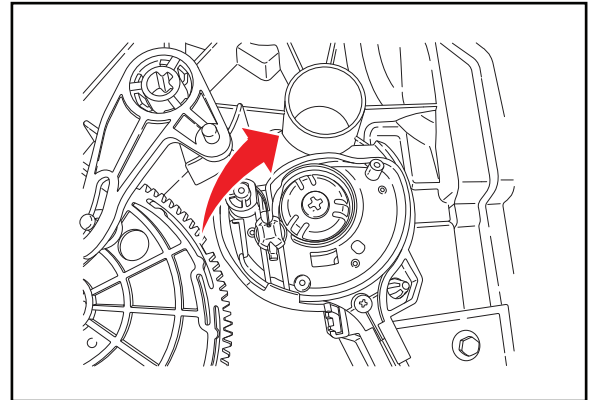


## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

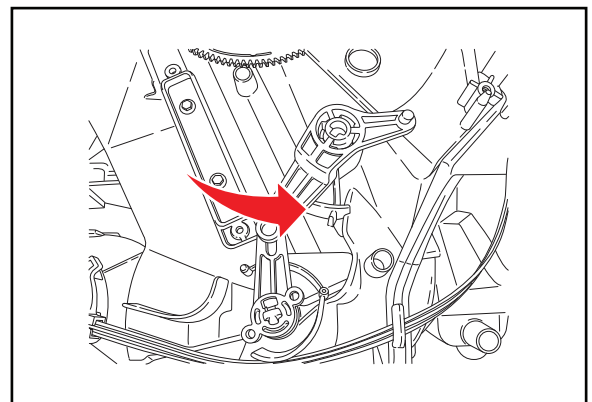
- (4) Rotate arm "D" clockwise until the end of travel.

Figure 12. Cam "D"



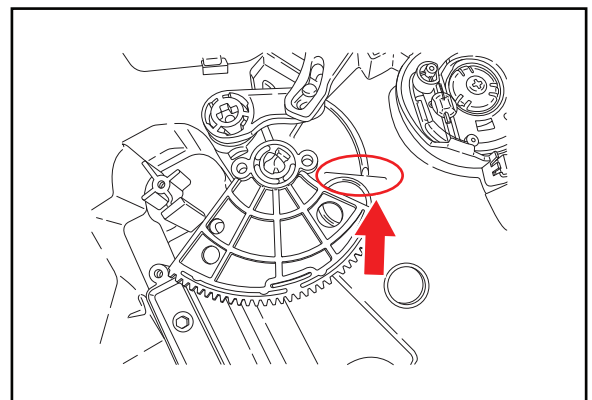
- (5) Rotate arm "E" counterclockwise until the end of travel.

Figure 13. Arm "E"



- (6) Align the leading edge of cam "F" with the line casting in the case.

Figure 14. Cam "F"



## Rear HVAC Vents Blow Hot Air with A/C "ON"

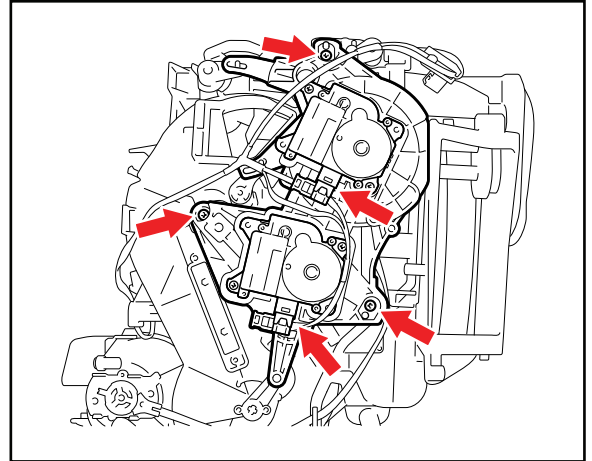
### Repair Procedure A: Damper Servo Sub-assembly (Continued)

B. Install the air outlet control servo motor.

#### (1) For TMC-built (CBU) vehicles:

1. Install the air outlet control servo motor with the 3 screws.
2. Connect the 2 connectors and install the air conditioner harness.

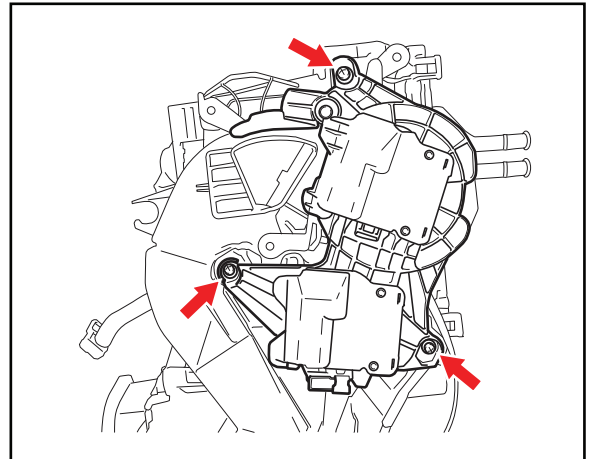
**Figure 15.**



#### (2) For TMMK-built vehicles:

1. Install the air outlet control servo motor with the 3 screws.

**Figure 16.**



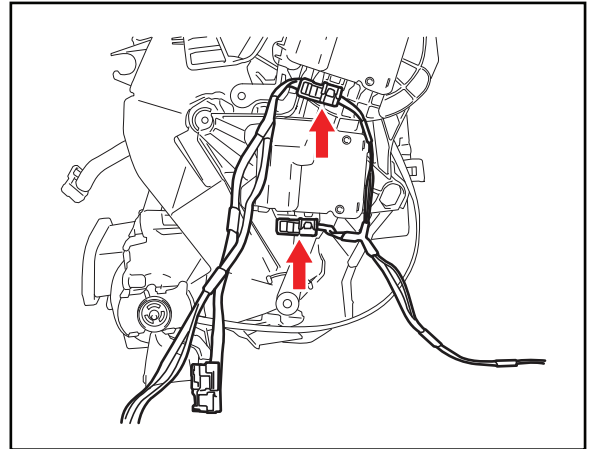
## Rear HVAC Vents Blow Hot Air with A/C "ON"

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### Repair Procedure A: Damper Servo Sub-assembly (Continued)

2. Connect the 2 connectors and install the air conditioner harness.

Figure 17.

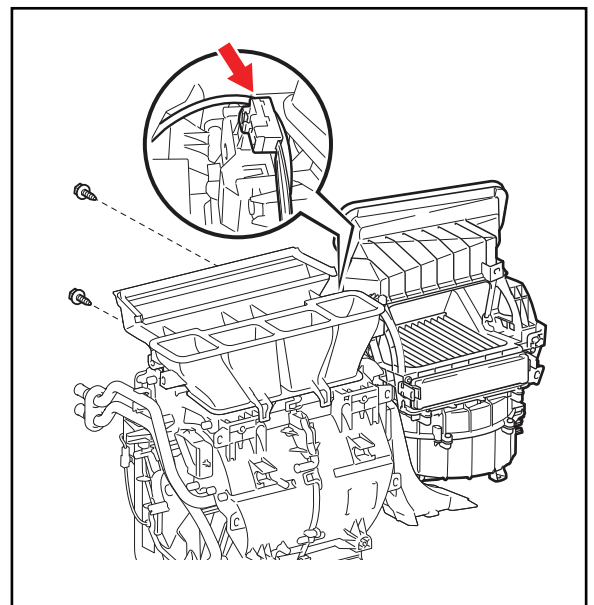


6. Install the blower assembly.

#### A. For TMC-built (CBU) vehicles:

- (1) Install the blower assembly with the 2 screws.

Figure 18.



- (2) Connect the connector.

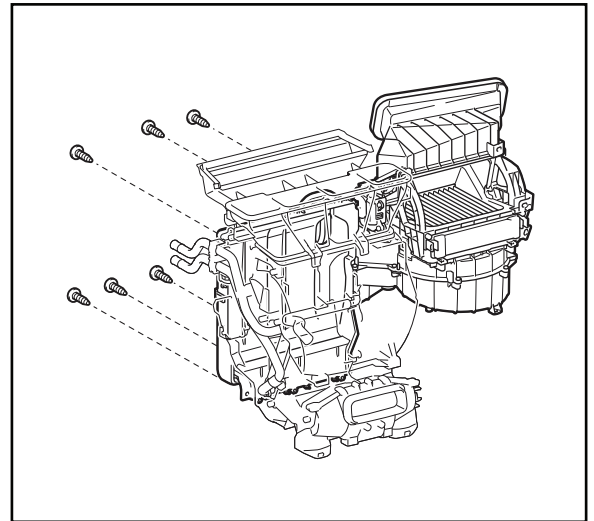
## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

#### B. For TMMK-built vehicles:

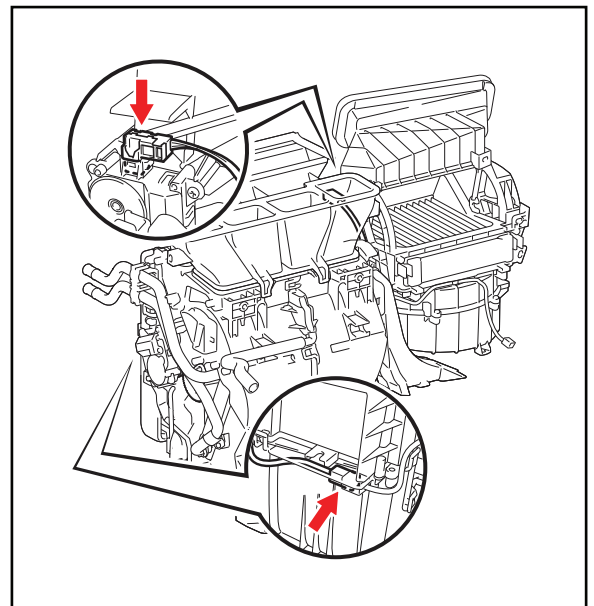
- (1) Install the blower assembly with the 6 screws.

Figure 19.



- (2) Connect the connector.

Figure 20.



- (3) Using a 4-mm hexagon wrench, install the cooler expansion valve with the 2 hexagon bolts.

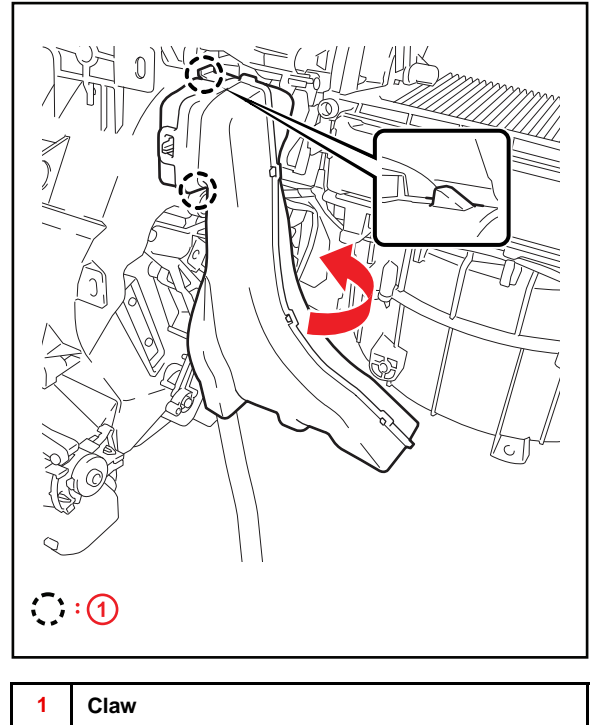
**Torque: 3.5 N\*m (35 kgf\*cm, 30 in\*lbft)**

## Rear HVAC Vents Blow Hot Air with A/C "ON"

### Repair Procedure A: Damper Servo Sub-assembly (Continued)

7. Install the No. 2 air duct sub-assembly by engaging the 2 claws.

Figure 21.



8. Install the air conditioning unit.

Refer to TIS, applicable model and model year Repair Manual:

- [2007](#) model year Camry Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Unit: Installation”*
- 2007 or 2008 model year Camry HV ([TMMK](#)) or ([TMC](#)) Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Unit: Installation”*

9. Verify the heater and air conditioner operate correctly with the air directed in each mode.

## Rear HVAC Vents Blow Hot Air with A/C "ON"

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### Repair Procedure: A/C Amplifier Assembly

1. Remove and replace the air conditioning amplifier.

Refer to TIS, applicable model and model year Repair Manual:

- 2007 model year Camry Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Amplifier: [Removal](#) and [Installation](#)”*
  - 2007 model year Camry HV (TMMK) Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Amplifier: [Removal](#) and [Installation](#)”*
  - 2008 model year Camry HV (TMC) Repair Manual, *Vehicle Interior – Heating/Air Conditioning – “Air Conditioning: Air Conditioning Amplifier: [Removal](#) and [Installation](#)”*
2. Verify the heater and air conditioner operate correctly with the air directed in each mode.