

SECTION : 310-02 Acceleration Control

VEHICLE APPLICATION : 2008.0 Falcon

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SPECIFICATIONS

Torque Specifications

Description	Nm
Electronic Throttle Control Mounting To Carrier Plate	8
Adjustment Motor Retaining Bolts (Adjustable pedal)	5
Pedal Box Housing	22.5
Brake Booster Retaining Nuts	22.5



DESCRIPTION AND OPERATION**Acceleration Control****Acronyms and Abbreviations**

APM	Accelerator Pedal Module
PCM	Powertrain Control Module
BEM	Body Electronic Module
Step Over	Height Difference Between Brake and Accelerator Pedal
PPS	Pedal Position Sensor



DIAGNOSIS AND TESTING

Pinpoint Tests

PINPOINT TEST A : PEDAL "FEEL"



CAUTION: Tests to be carried out with the Engine not running.

Test Step		Result / Action to Take
A1	OBSTRUCTION AT APM	
	<ul style="list-style-type: none"> Inspect the APM for any obstructions such as carpet or a poorly fitted floor mat. Did you find an obstruction? 	Yes Remove the obstruction and recheck. No Go to A2
A2	EXCESSIVE EFFORT REQUIRED	
	<ul style="list-style-type: none"> Very slowly apply the pedal all the way to full throttle. Did the pedal movement appear rough or sticking 	Yes Replace the APM. Refer to removal and installation instructions in this chapter. No Go to A3
A3	EXCESSIVE FORCE EVALUATION	
	<ul style="list-style-type: none"> Is excessive force (greater than 4 kg) required to operate the accelerator pedal? 	Yes Replace the APM. Refer to removal and Installation instructions in this chapter. No Go to A4
A4	PEDAL RETURN TOO SLOW	
	<ul style="list-style-type: none"> Check if the Accelerator pedal is too slow in returning to the Idle position. Did the pedal return to idle but too slowly (greater than 0.5 Seconds)? 	Yes Replace the APM. Refer to Removal and Installation instructions in this chapter. No Go to A5
A5	LIGHT PEDAL FEEL	
	<ul style="list-style-type: none"> Check to verify if the accelerator pedal feel is too light. Is the force to initiate movement of the accelerator pedal less than 1 kg force? 	Yes Replace the APM. Refer to removal and installation instructions in this chapter. No APM operating correctly. Re-diagnose problem.



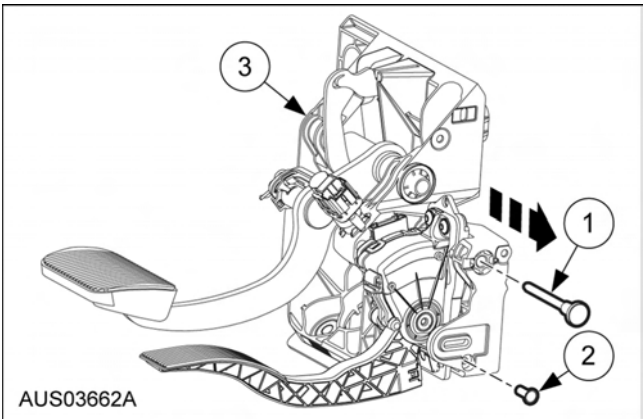
REMOVAL AND INSTALLATION

Accelerator Pedal and APM unit — Adjustable Pedals

Removal

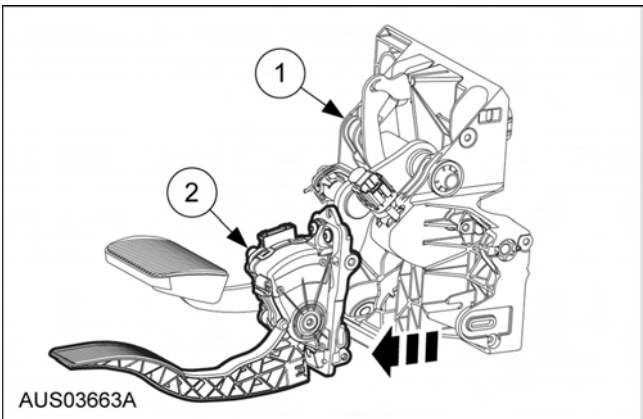
CAUTION: The adjustable pedal system must be indexed whenever the brake pedal assembly or the accelerator pedal assembly is serviced.

- 1. If possible adjust pedals to midway position.
- 2. Remove pedal box from car. To remove pedal box see Section 206-06.
- 3. Remove the APM pivot pin.



Item	Description
1	APM Pivot Pin
2	APM

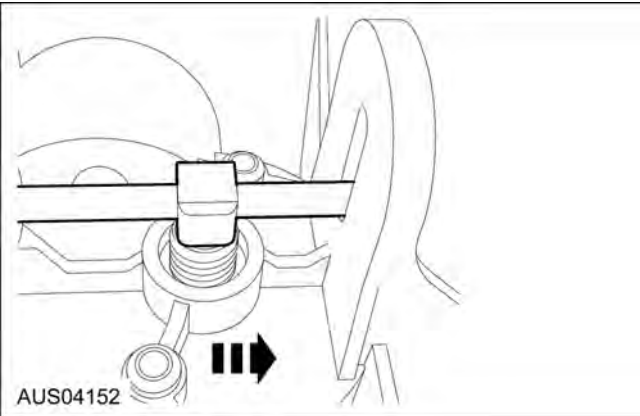
- 4. Slide APM away from assembly as shown.
- 5. Accelerator pedal assembly can be removed from the pedal box.



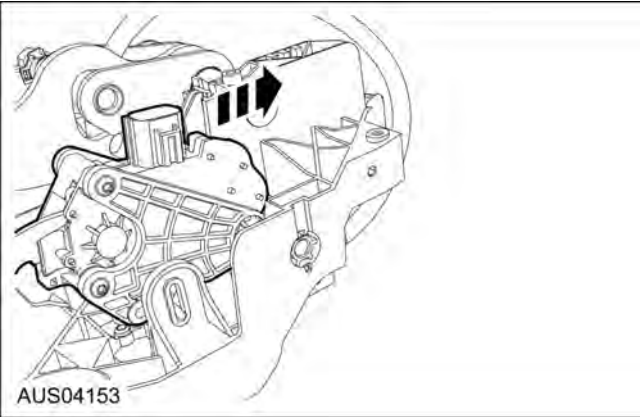
Item	Description
1	Pedal Box
2	APM Unit

Installation

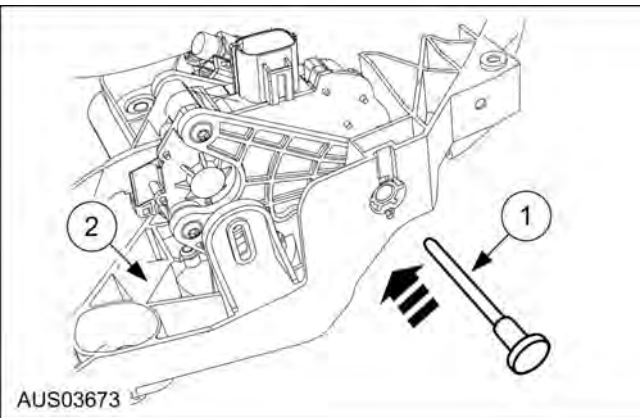
- 1. Ensure correct location of clevis pin.



- 2. Reinstall APM by aligning the slot on the carrier plate with the clevis pin and pushing onto pin.



- 3. Install the pivot pin.



Item	Description
1	APM Pivot Pin
2	APM Unit



REMOVAL AND INSTALLATION (Continued)

4. Install the pedal box to the car. Refer to pedal box installation in Section 206-06.
5. Accelerator pedal assembly can be removed from the pedal box.

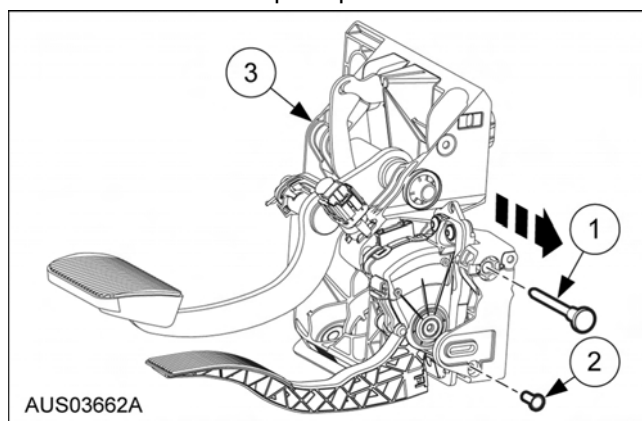
CAUTION: The adjustable pedal system must be indexed whenever the brake pedal assembly or the accelerator pedal assembly is serviced.

Accelerator Pedal and APM unit - Non-Adjustable Pedals

Removal

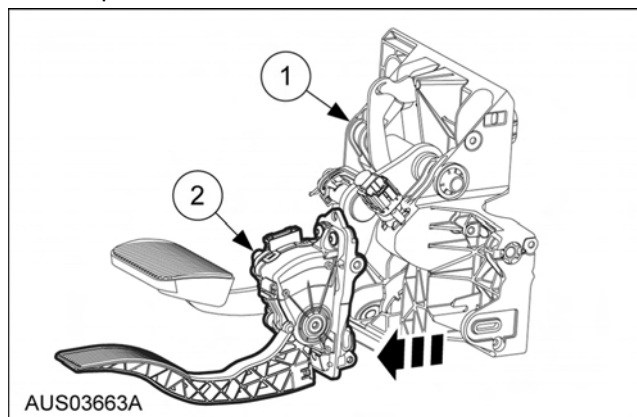
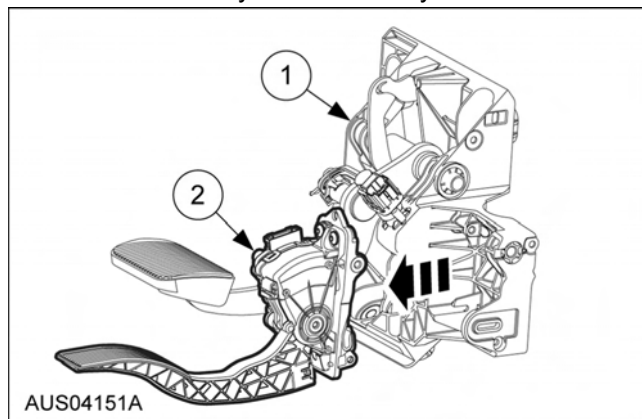
CAUTION: The pedal system must be indexed whenever the brake pedal assembly or the accelerator pedal assembly is serviced.

1. Remove pedal box from car. To remove pedal box see Section 206-06.
2. Remove the APM pivot pin.



Item	Description
1	APM Pivot Pin
2	APM Retaining Screw
3	APM Unit

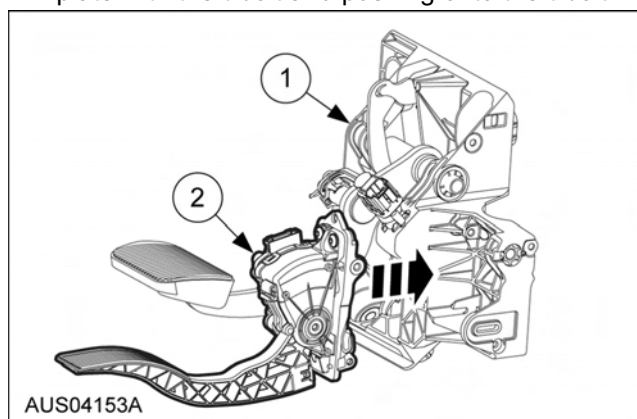
3. Remove the APM Unit retaining screw.
4. Slide APM away from assembly as shown.



Item	Description
1	Pedal Box
2	APM Unit

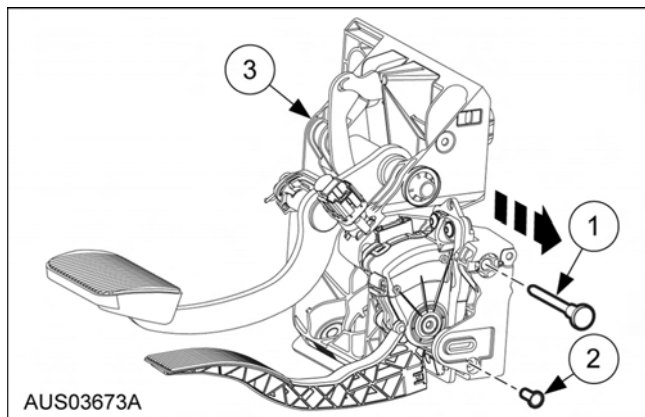
Installation

1. Ensure correct location of t-bolt.
2. Reinstall APM by aligning the slot on the carrier plate with the t-bolt and pushing onto the t-bolt.



REMOVAL AND INSTALLATION (Continued)

3. Install the pivot pin.



Item	Description
1	APM Pivot Pin
2	APM Retaining Screw
3	APM Unit

4. Install the APM retaining screw.
5. Install the pedal box to the car. Refer to pedal box installation in Section 206-06.



CAUTION: The pedal system must be indexed whenever the brake pedal assembly or the accelerator pedal assembly is serviced.

