

TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL 90L
ACCELERATOR PEDAL MODIFICATION
2005 – 2010 MODEL YEAR AVALON
REVISED MARCH 23, 2010

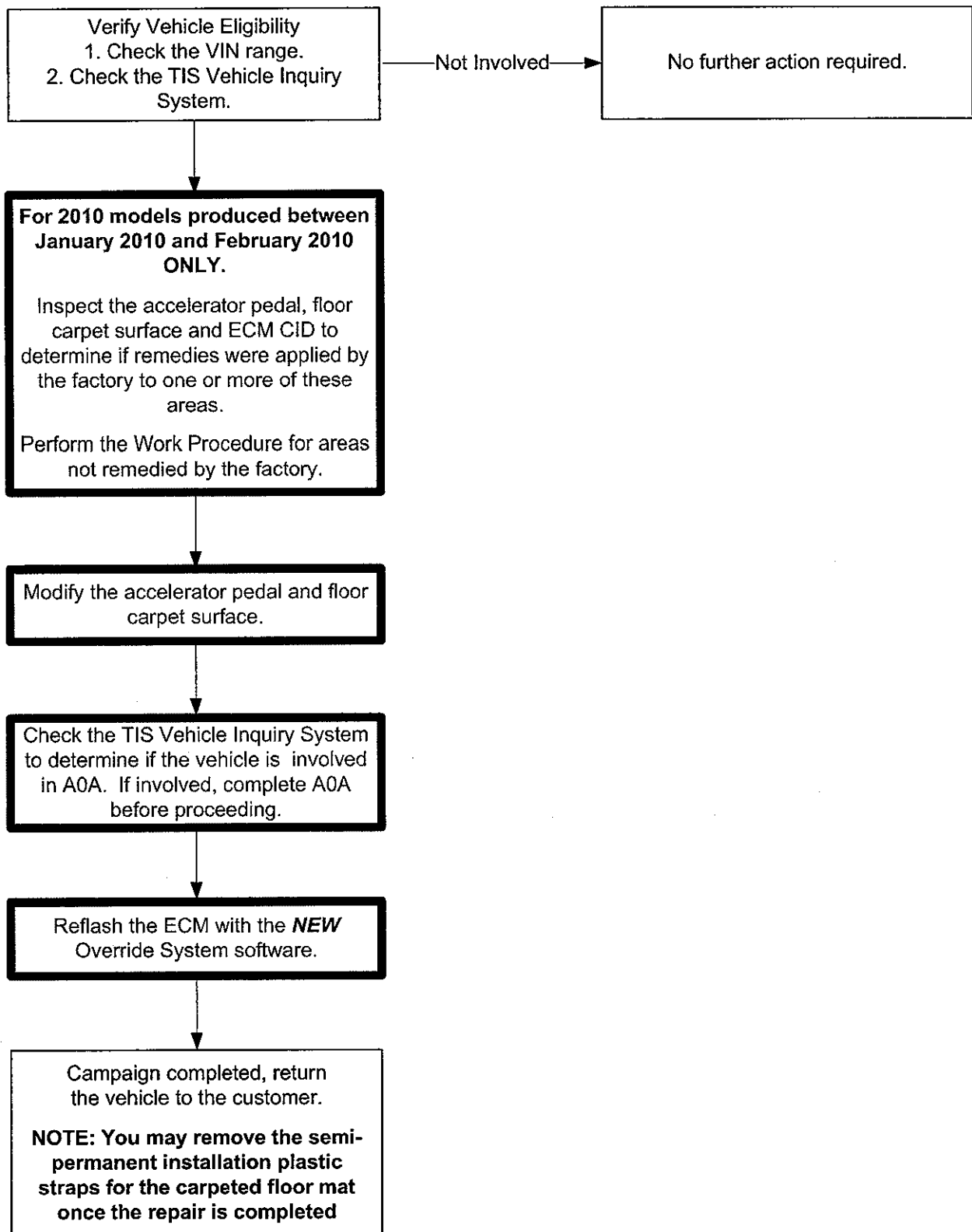
TECHNICAL INSTRUCTION REVISION NOTICE:

- **February 23, 2010:**
 - Note in Work Procedure section E, step 5, “REFLASH THE ECU” was updated.
- **March 2, 2010:**
 - Battery cable removal was added to Work Procedure Section C, step 1, “REMOVE THE ACCELERATOR PEDAL ASSEMBLY”
 - Battery cable installation was added to Work Procedure Section E, step 1, “REINSTALL THE ACCELERATOR PEDAL ASSEMBLY”
- **March 4, 2010:**
 - Important information was added for Work Procedure Section D, steps 6f & 6g, “INSTALL THE NEW TIBIA PADS”
 - Important information was added for Work Procedure Section E, step 1d, “REINSTALL THE ACCELERATOR PEDAL ASSEMBLY”
- **March 11, 2010:**
 - A pin hole / cavity repair process was added to Work Procedure Section C, step 11f, “CHECK THE SHAPE OF THE PEDAL”
- **March 23, 2010:**
 - Note in Work Procedure section E, step 5, “REFLASH THE ECU” was updated for 2005 MY only.

Previous versions of this Technical Instruction should be discarded.

See page 20 for important information regarding vehicles involved in this recall and Safety Recall A0A “Accelerator Pedal reinforcement Bar Installation”.

I. OPERATION FLOW CHART



II. IDENTIFICATION OF AFFECTED VEHICLES

A. AFFECTED VIN RANGE

Model	WMI	Year	VIN Range	
			VDS	Range
AVALON	4T1	2005	BK36B	U001003 – U062426
		2006	BK36B	U042154 – U167717
		2007	BK36B	U149048 – U253880
		2008	BK36B	U209130 – U324241
		2009	BK36B	U305357 – U351925
		2010	BK3DB	U351302 – U368701

NOTE:

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

III. PREPARATION

A. PARTS

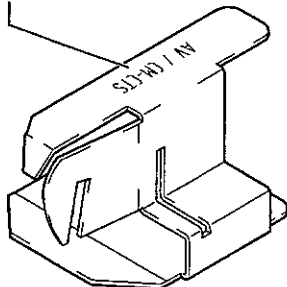
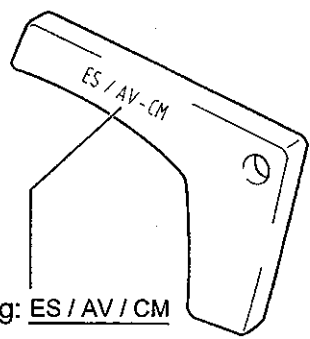
Part Number	Part Description	Quantity
58569-07010	Tibia Pad	1
78118-41010	Rubber Pad	1

B. TOOLS & EQUIPMENT

- Dust mask
- Hair dryer or Low temperature heat gun
- Hack saw
- Hand file
- Orbital sander *
- Protective eyewear
- Protective work gloves
- Reciprocating Saw *
- Scribe
- Standard hand tools
- Techstream
- Torque wrench
- Workbench with vise

* One orbital sander and one reciprocating saw was provided to each dealership during phase 1 of this Safety Recall.

C. ACCELERATOR PEDAL TEMPLATE & GAUGE

Cutting Template (Color: White) **	Shape Gauge (Color: Silver) **
<p>Stamping: <u>AV / CM-CTS</u></p> 	 <p>Stamping: <u>ES / AV / CM</u></p>

** One cutting template and one shape gauge was provided to each dealership during phase 2 of this Safety Recall.

D. MATERIALS

- Bubble wrap
- Double sided tape – (¾" wide Scotch ® Heavy Duty Mounting Tape 110-Long)
- Industrial tape – (2" wide Gorilla Tape ®)
- Masking tape
- Sandpaper 400 grit
- Shop cloth

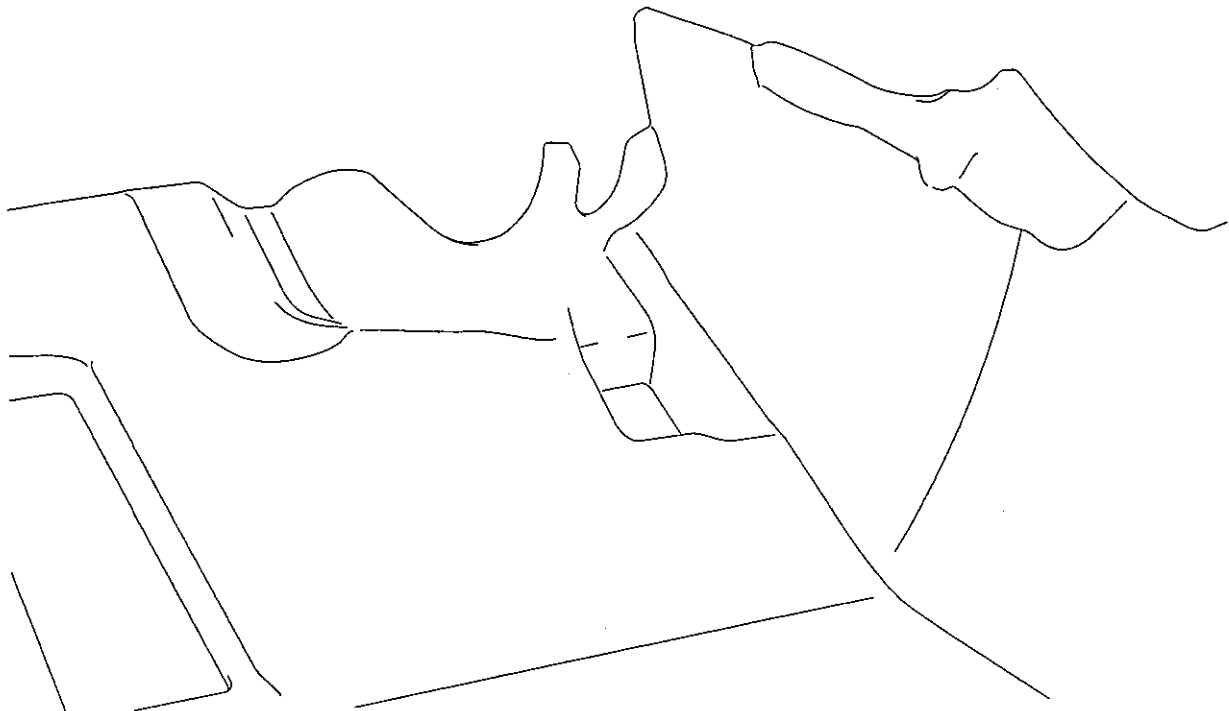
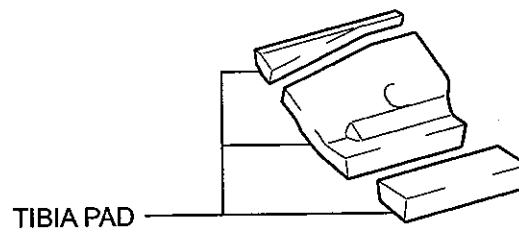
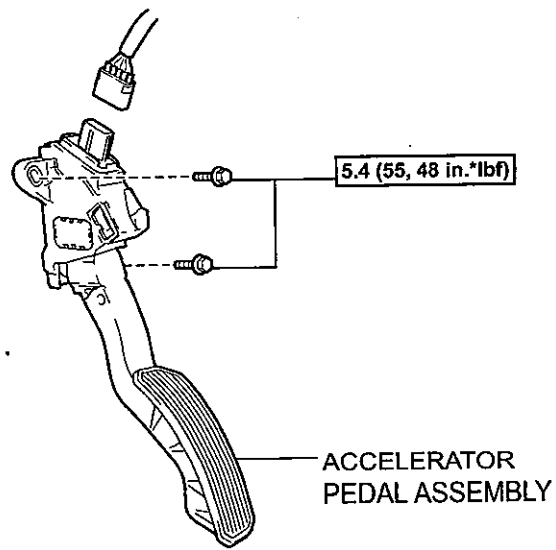
IV. BACKGROUND

In early October, Toyota announced it will initiate a Safety Recall Campaign (Special Service Campaign) for potential floor mat interference with the accelerator pedal. The condition involves the potential for an unsecured or incompatible driver's floor mat to interfere with the accelerator pedal and cause it to get stuck in the wide open position.

- The accelerator pedal will be modified to reduce the risk of an unsecured or incompatible floor mat from interfering with the accelerator pedal.
- Foam pads underneath the carpet in the accelerator pedal area will also be removed and/or replaced to modify the shape of the floor.
- Vehicles equipped with the optional genuine Toyota All Weather Floor Mats (AWFM) will be inspected to determine if the AWFM set is of an older design. If it is, the older design AWFM for the driver and the front passenger will be replaced with newly designed ones.
- Finally, the ECU will be reflashed with newly designed software to provide customers an extra measure of confidence. This reflash will allow the system to cut engine power in case of simultaneous application of both the accelerator and brake pedals during certain driving speeds.

V. WORK PROCEDURE

A. COMPONENTS



N*m (kgf*cm, ft.*lbf) : Specified torque



SHIFT LEVER KNOB
SUB-ASSEMBLY



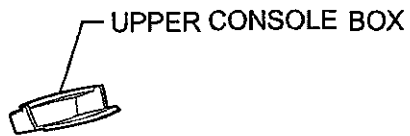
POSITION INDICATOR
HOUSING ASSEMBLY

w/ Seat Heater System:

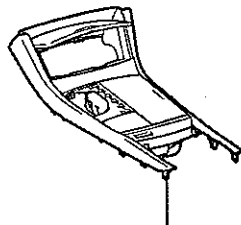


SEAT HEATER SWITCH

w/ Box:

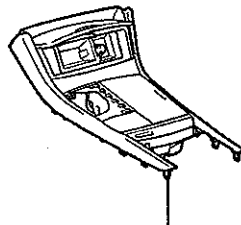


UPPER CONSOLE BOX



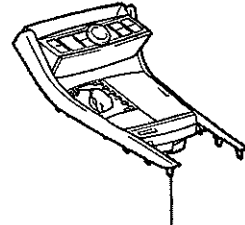
UPPER CONSOLE
PANEL SUB-ASSEMBLY

w/ Ash Receptacle:

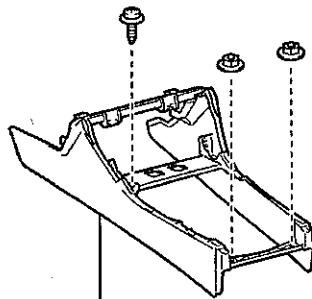


UPPER CONSOLE
PANEL SUB-ASSEMBLY

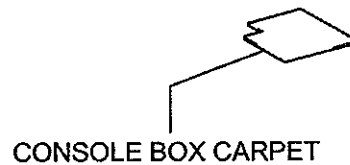
w/ Navigation:



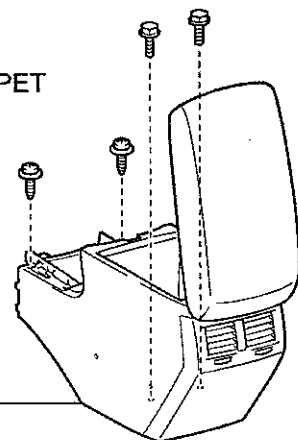
UPPER CONSOLE
PANEL SUB-ASSEMBLY



CONSOLE BOX FRONT



CONSOLE BOX CARPET

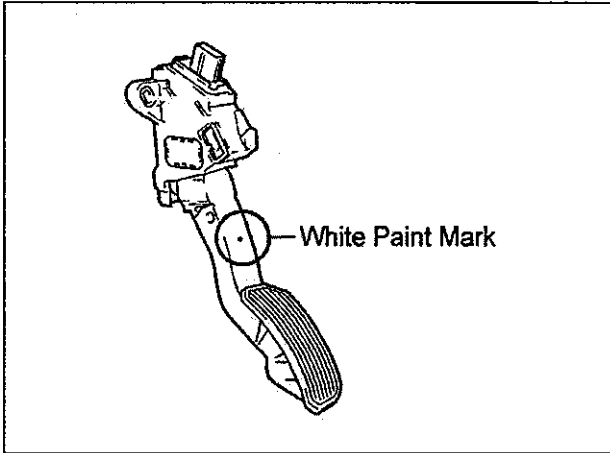


CONSOLE BOX ASSEMBLY

B. PRELIMINARY INSPECTION FOR SOME 2010 MODELS ONLY



- The following inspection procedure is to determine if some 2010 models produced between January 2010 and February 2010 may have had remedies applied to the accelerator pedal, floor carpet or ECU CID by the factory.
- If applicable, perform the Work Procedure **ONLY** for areas **NOT** remedied by the factory.



1. INSPECT THE ACCELERATOR PEDAL ASSEMBLY - FOR SOME 2010 MODELS ONLY -

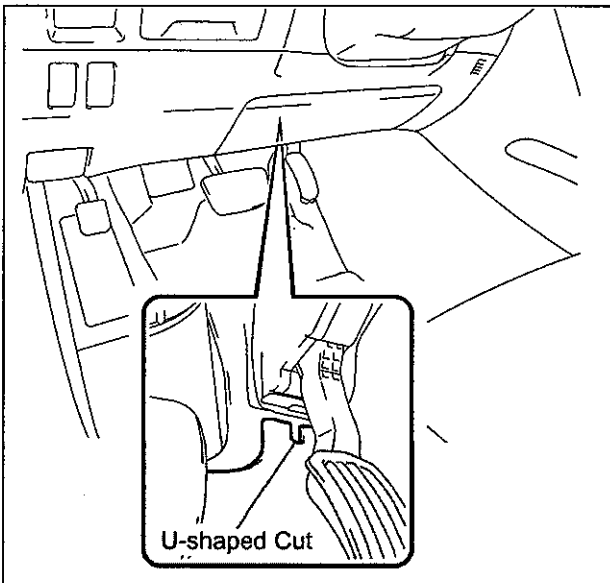
- a) Verify if the accelerator pedal assembly has a white paint mark in the location shown:

With White Paint Mark:

- The accelerator pedal remedy has been applied by the factory, NO modification is required.

NO Paint Mark:

- The accelerator pedal requires modification. Make sure to perform the modification process during the Work Procedure.



2. INSPECT THE FLOOR CARPET - FOR SOME 2010 MODELS ONLY -

- a) Verify if the floor carpet has a "U" shaped cut in the location shown.

With "U" Shaped Cut:

- The floor carpet remedy has been applied by the factory, NO modification is required.

NO "U" Shaped Cut:

- The floor carpet requires modification. Make sure to perform the modification process during the Work Procedure.

3. INSPECT THE ECU CALIBRATION ID (CID) - FOR SOME 2010 MODELS ONLY -

- a) Verify if the ECU has the **NEW** CID.

With **NEW** ECU CID:

- The ECU CID has been applied by the factory, NO modification is required.
- Confirm the vehicle has the correct floor mat following the instructions on page 22.

With Current ECU CID:

- The ECU CID requires updating. Make sure to perform the updating process during the Work Procedure.

ECU CID

Model Year	Current CID	New CID
2010	30710000	30710100

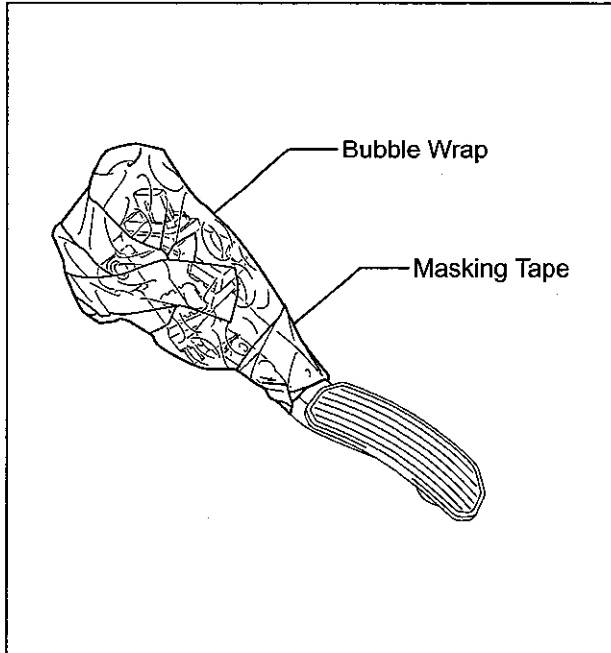
C. REMOVE AND CUT THE ACCELERATOR PEDAL



ACCELERATOR PEDAL HANDLING NOTES:

- DO NOT drop
- DO NOT reuse an accelerator pedal that has been dropped
- Avoid vibration and shock
- DO NOT place sensor in vise
- Cover and uncover the sensor while in the vehicle to prevent damage and debris from entering

[CLICK HERE TO WATCH THE VIDEO BEFORE BEGINNING THE WORK PROCEDURE](#)



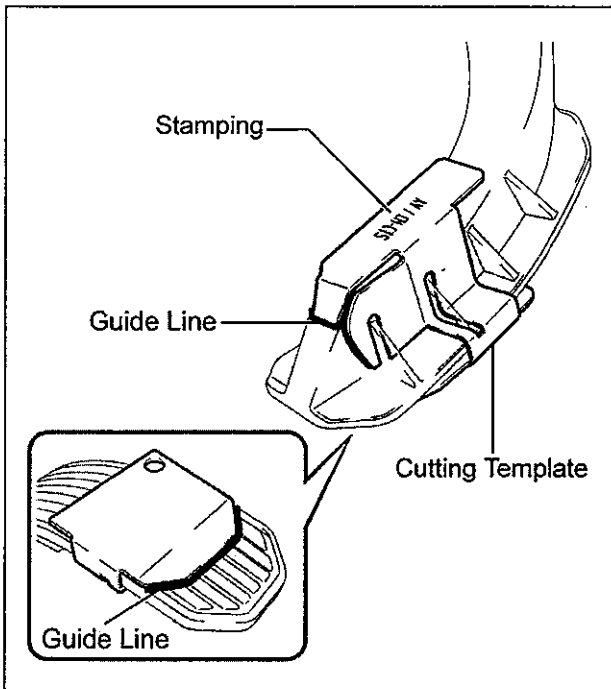
1. REMOVE THE ACCELERATOR PEDAL ASSEMBLY

[Click here to watch the video to supplement this step](#)

- a) Record the radio station preset.
- b) Disconnect the negative battery cable and wait 90 seconds.
- c) Disconnect the accelerator pedal connector.
- d) Remove the 2 bolts.
- e) While still inside the vehicle, use bubble wrap and masking tape to cover and protect the sensor.

NOTE:

- For additional information on accelerator pedal removal, please refer to TIS.
- Be sure to use bubble wrap to protect the sensor.
- Be sure to seal the bubble wrap with masking tape to prevent damage to the sensor, and cutting debris from entering the pedal's movable lock.
- DO NOT reuse the bubble wrap.



2. MARK THE AREA TO BE CUT

[Click here to watch the video to supplement steps 2-3](#)

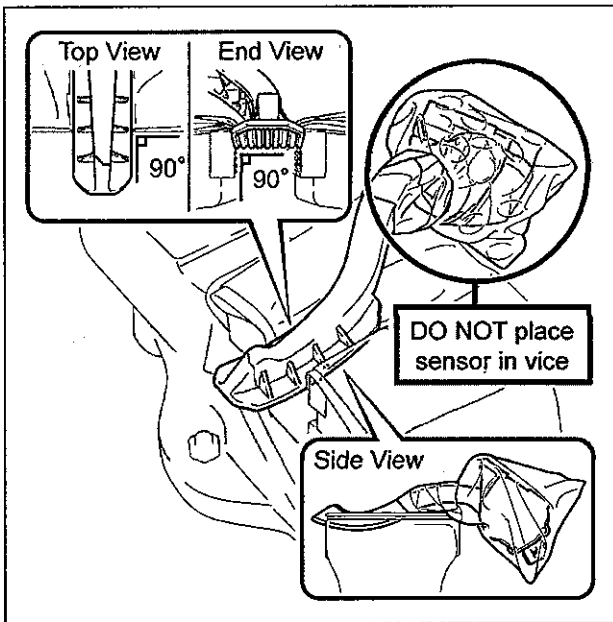
- a) Firmly set the template to the pedal and scribe guide lines to outline the area to be cut.

Cutting Template:

- Color: White
- Stamping: AV / CM-CTS

NOTE:

- DO NOT mark the area beyond the template.
- Use a flat tip screwdriver if a scribe is not available.
- Make sure to use the correct cutting template by verifying the color and stamping.
- Never cut or sand the pedal while the template is on the pedal.

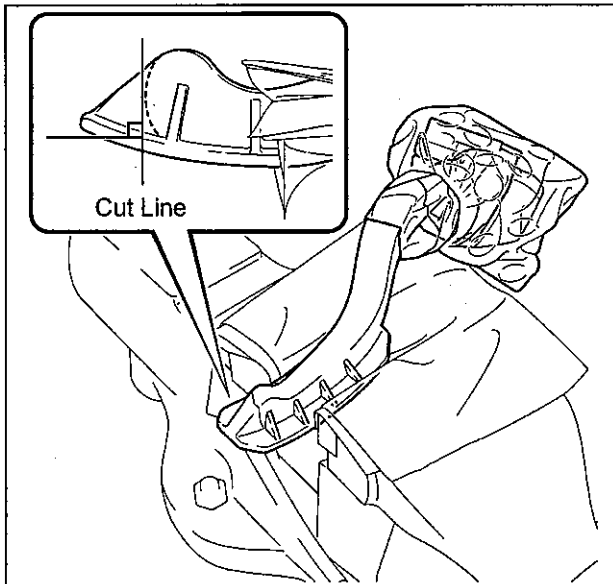


3. SECURE THE ACCELERATOR PEDAL ASSEMBLY

- a) Set the pedal in the vise at a right angle using a shop cloth while avoiding the sensor.

NOTE:

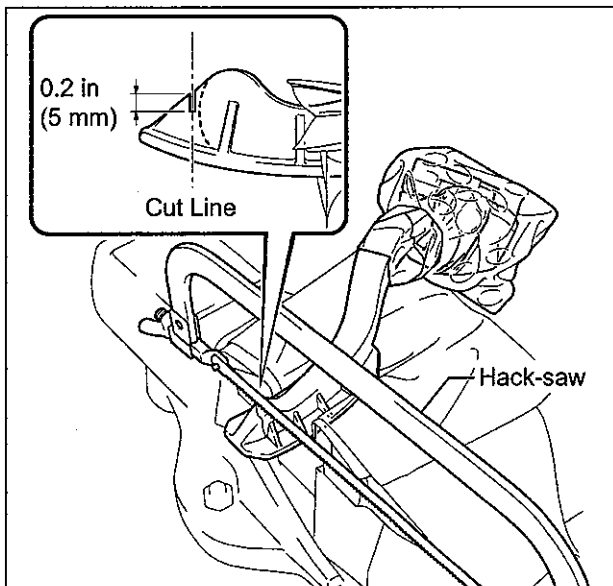
- **DO NOT** place the sensor in the vise to avoid damage.
- **Firmly secure the pedal to prevent it from moving.**
- **DO NOT** over tighten the vise.



4. CUT THE LOWER SECTION OF THE ACCELERATOR PEDAL ASSEMBLY

[Click here to watch the video to supplement steps 4-11](#)

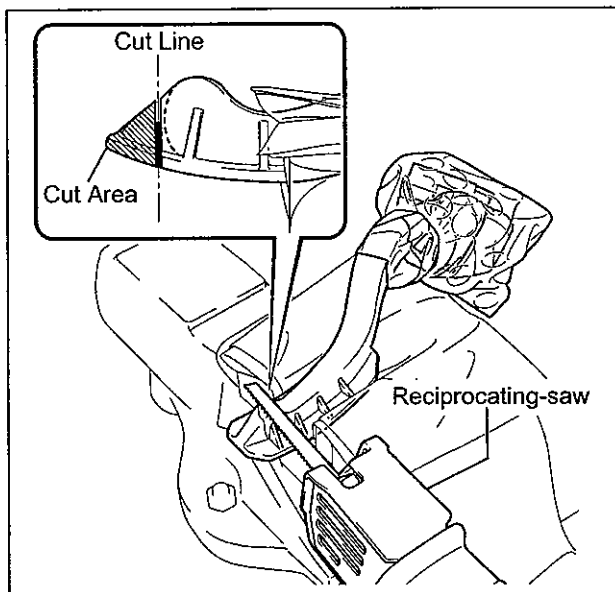
- a) The cut line is slightly outside from the scribed line and its positioned 90 degrees from the pedal foot pad as illustrated.



- b) Using a hack-saw, cut the pedal 0.2 in (5 mm) to create a guide cut for the reciprocating-saw.

NOTE:

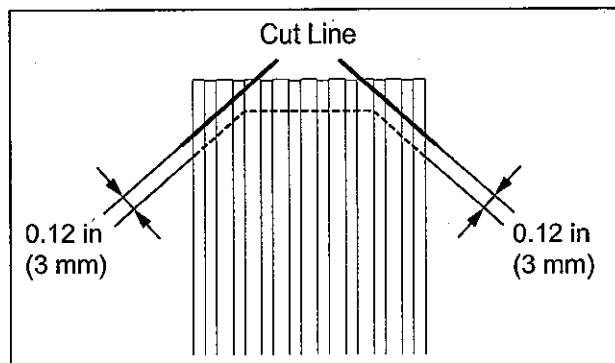
- **Always wear protective eyewear, gloves, and dusk mask when cutting.**
- **Guide cut must be straight and clean.**



- c) Using the reciprocating-saw, cut off the lower section of the pedal as illustrated.

NOTE:

- Always wear protective eyewear, gloves and dust mask when cutting.
- The cut must be straight and clean.
- Apply consistent pressure during cutting.
- Do not stop while cutting.

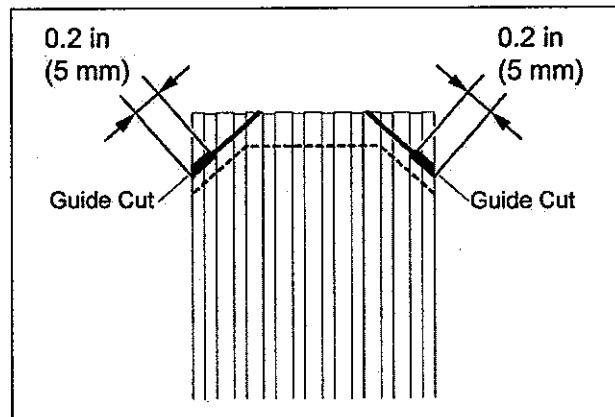


5. CUT THE CORNERS OF THE ACCELERATOR PEDAL ASSEMBLY

- a) Turn the pedal over in the vise so the top of the pedal is facing up; do not clamp the sensor portion of the pedal.
- b) The cut line is 0.12 in (3 mm) outside from the scribed line as illustrated.

NOTE:

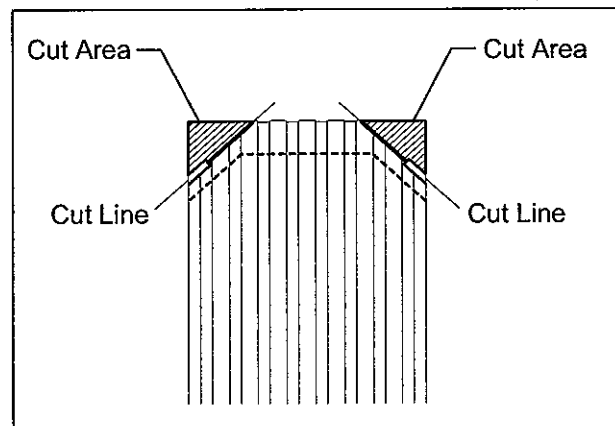
Do not cut at the scribed line. This area will be sanded later.



- c) Using a hack-saw, cut the pedal 0.2 in (5 mm) to create a guide cut for the reciprocating-saw.

NOTE:

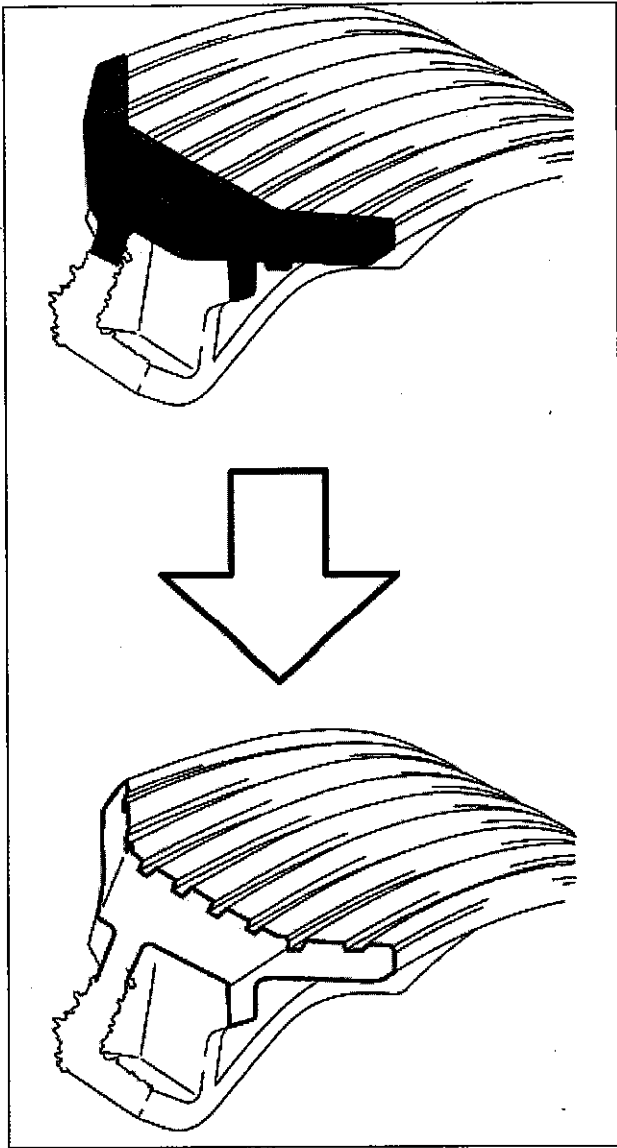
- Always wear protective eyewear, gloves, and dust mask when cutting.
- Guide cut must be straight and clean.



- d) Using the reciprocating-saw, cut off the pedal corners as illustrated.

NOTE:

- Always wear protective eyewear, gloves, and dust mask when cutting.
- Each cut must be straight and clean.
- Apply consistent pressure during cutting.
- Do not stop while cutting.

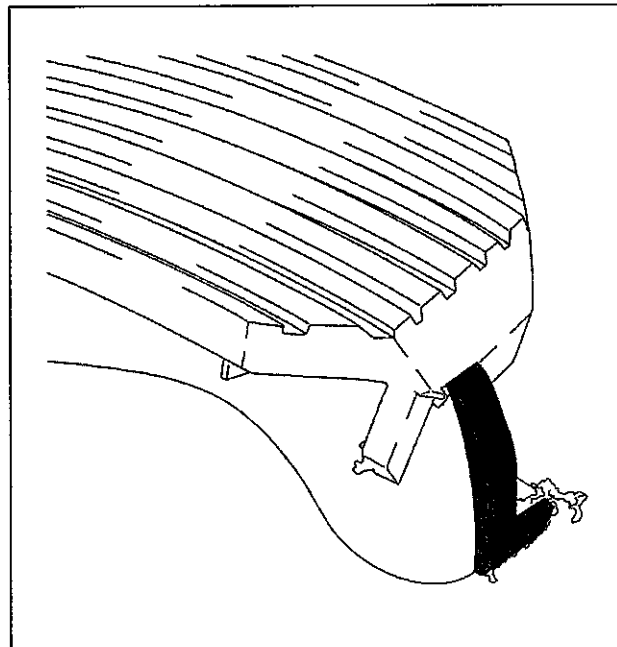


6. SAND THE TOP SURFACE

- a) Using an orbital sander, sand the top surface until you reach the scribed line and remove the edges and burrs. (remove the section of the pedal indicated in red)

NOTE:

Always wear protective eyewear, gloves, and dusk mask when sanding.

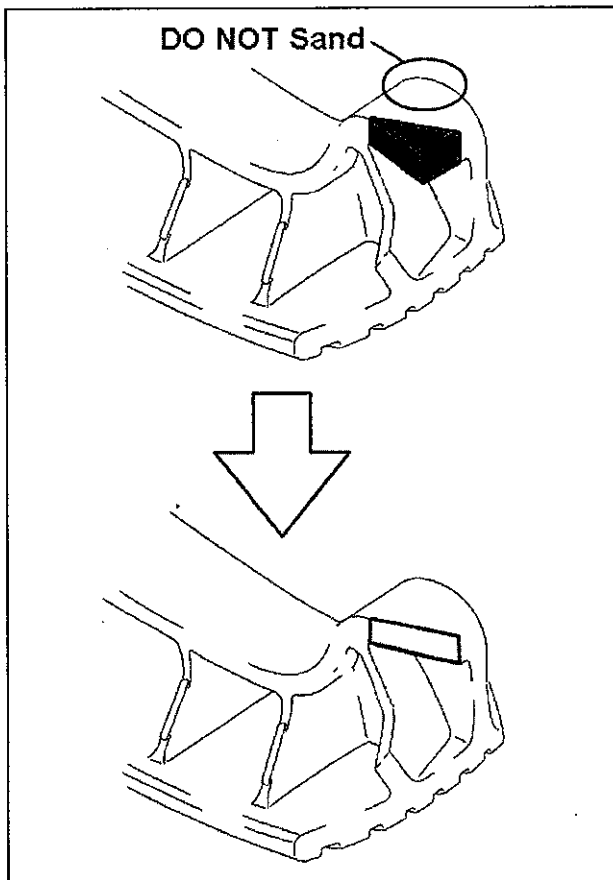


7. SAND THE RADIUS LINE

- a) Using an orbital sander, sand the scribed radius line and remove the edges and burrs.

NOTE:

Always wear protective eyewear, gloves, and dusk mask when sanding.

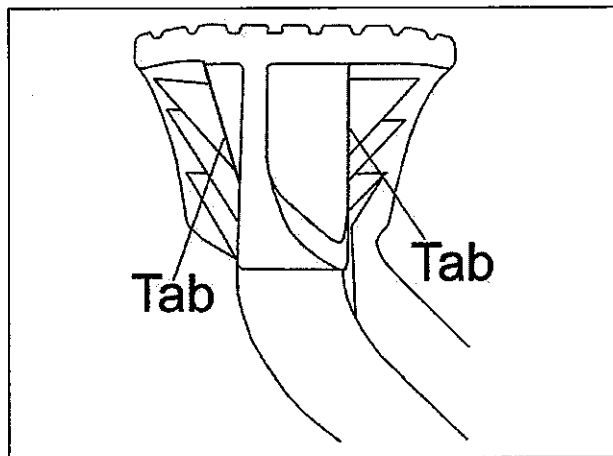


8. SAND THE LOWER CORNER NEAR THE PEDAL STOPPER

- Turn the pedal over in the vise so the bottom of the pedal is facing up; do not clamp the sensor portion of the pedal.
- Using an orbital sander and hand file, sand the lower corner near the pedal stopper.

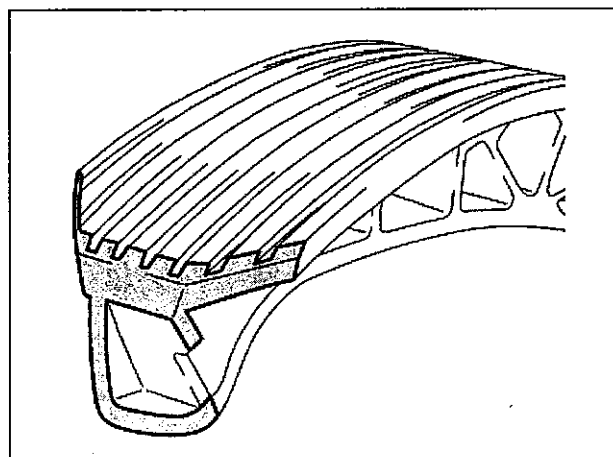
NOTE:

- Always wear protective eyewear, gloves, and dusk mask when sanding.
- Always use a shop cloth to protect the pedal when clamping it in a vise.
- DO NOT sand the pedal stopper area



9. FILE THE PEDAL ARM TABS

- File the tabs on both sides of the pedal arm; file until the tabs do not extend beyond the foot pad and no longer have sharp edges.

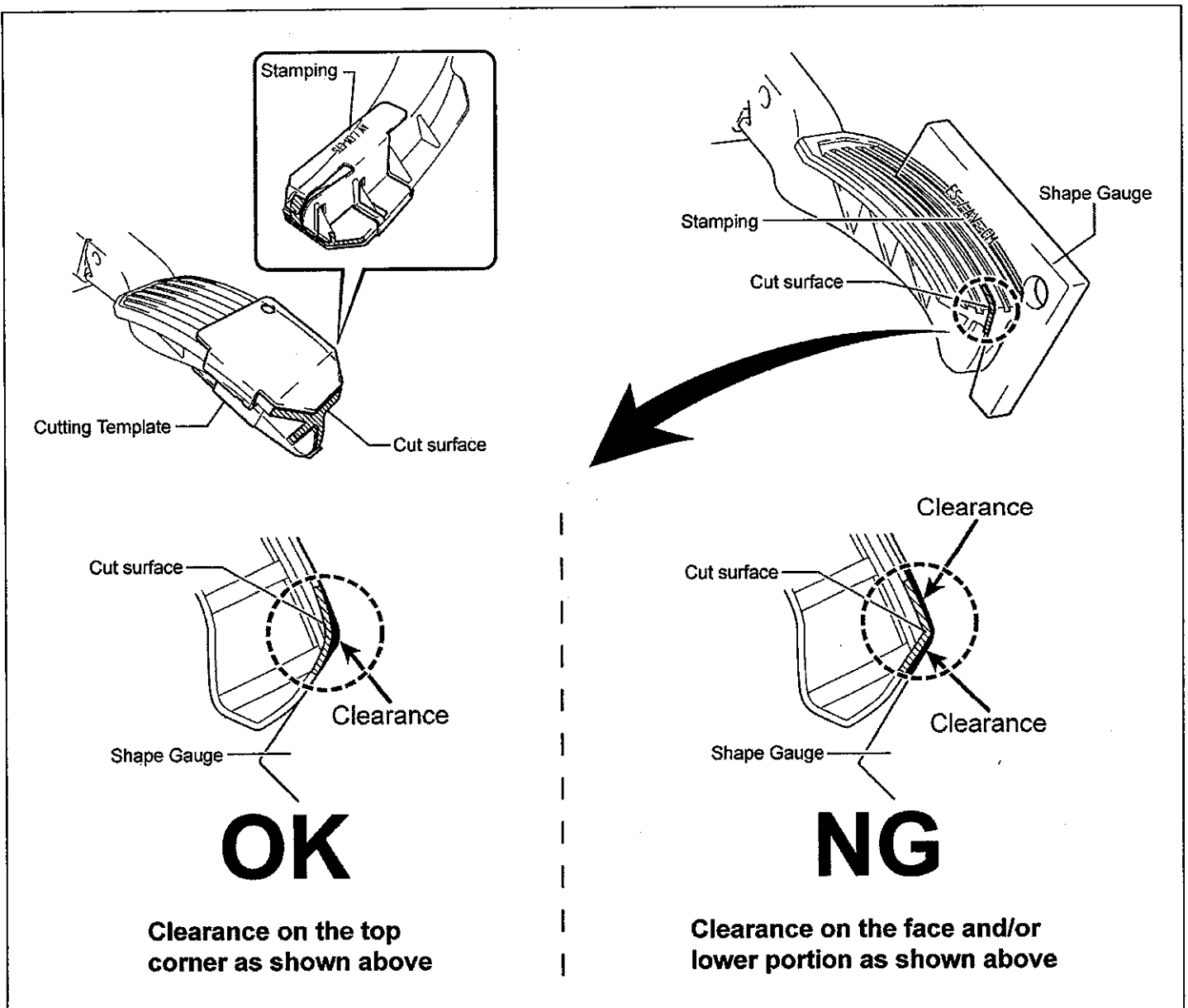


10. REMOVE ALL BURRS FROM THE CUTTING SURFACE

- Finish removing all burrs from the cutting surface. The cut surface along the foot pad should be rounded and not square.
- Finish the cut surface and all edges with 400 grit sandpaper.

NOTE:

Always wear protective eyewear, gloves, and dusk mask when sanding.



11. CHECK THE SHAPE OF THE PEDAL

- a) Using the correct cutting template and shape gauge, check the shape of the pedal.

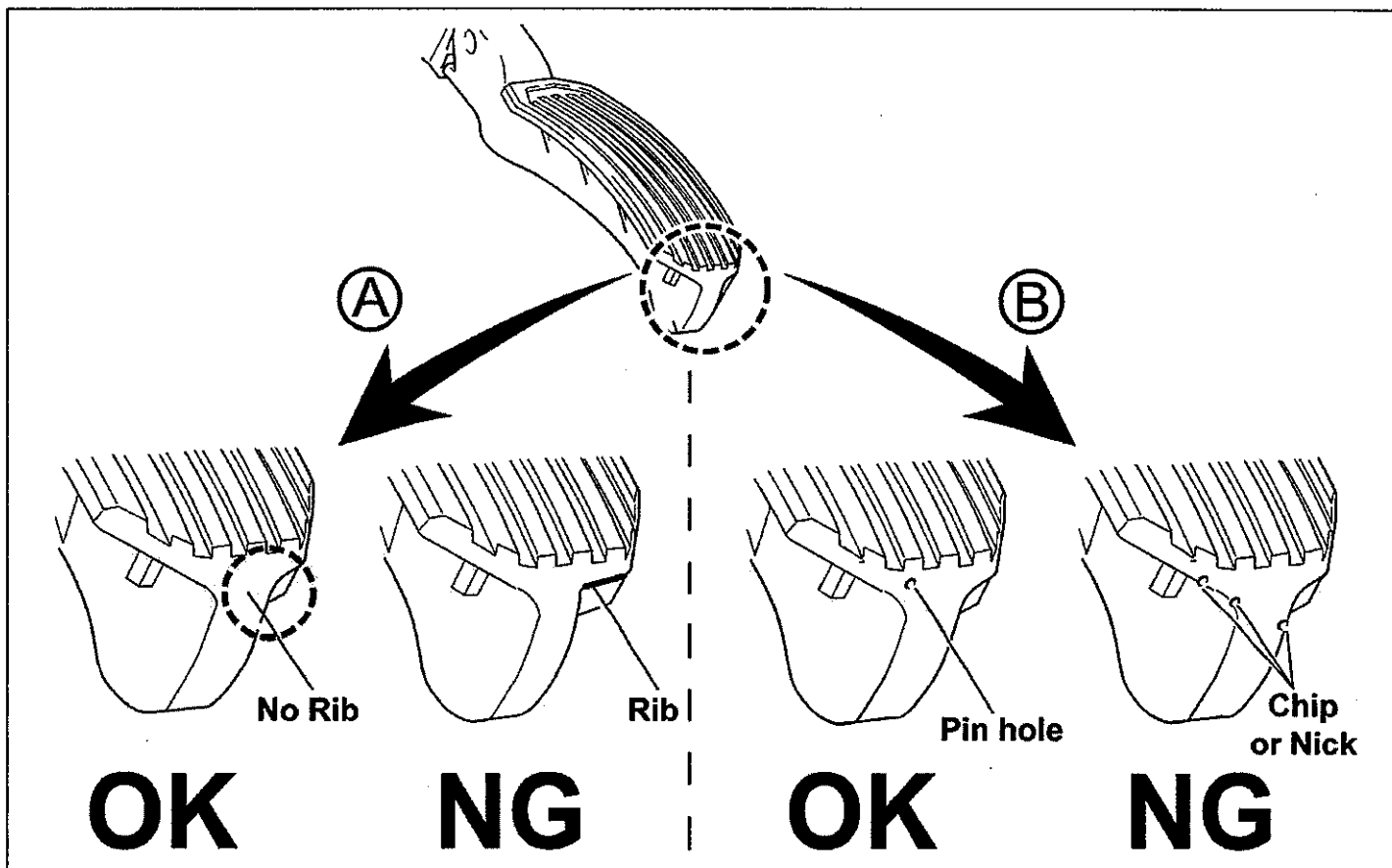
Cutting Template
Color: White
Stamping: AV / CM-CTS

Shape Gauge
Color: Silver
Stamping: ES / AV-CM

- b) If the shape does NOT match the template and/or gauge, continue filing.
c) If the shape matches the template and gauge, touch the cut surface with your hand to verify it is smooth and free of burrs.

NOTE:

- Always wear protective eyewear, gloves and dusk mask when sanding or filing.
- A tolerance of -1.0 mm is permissible between the final cut surface and the template.



- d) Check for a rib as shown in "A". If there is a rib, file it until it is gone.
- e) Check for any pin holes, chips, nicks or sharp edges on the finished surface edge as shown in "B". If there are any chips, nicks or sharp edges file them to make them smooth.

NOTE:

The key point of judgment is a "smooth pedal surface".

- f) If a "smooth pedal surface" cannot be achieved due to a pinhole / cavity, repair the pedal utilizing the steps below.

Materials Needed:

- KBS Coatings - NuMetal® Epoxy Putty (Black)
Contact: 1-888-531-4527
Website: www.kbs-coatings.com/KBS-NuMetal-Epoxy-Putty_p_9-19.html

OR

- Milliput® Black Epoxy Putty
Website: www.milliput.com/home.htm

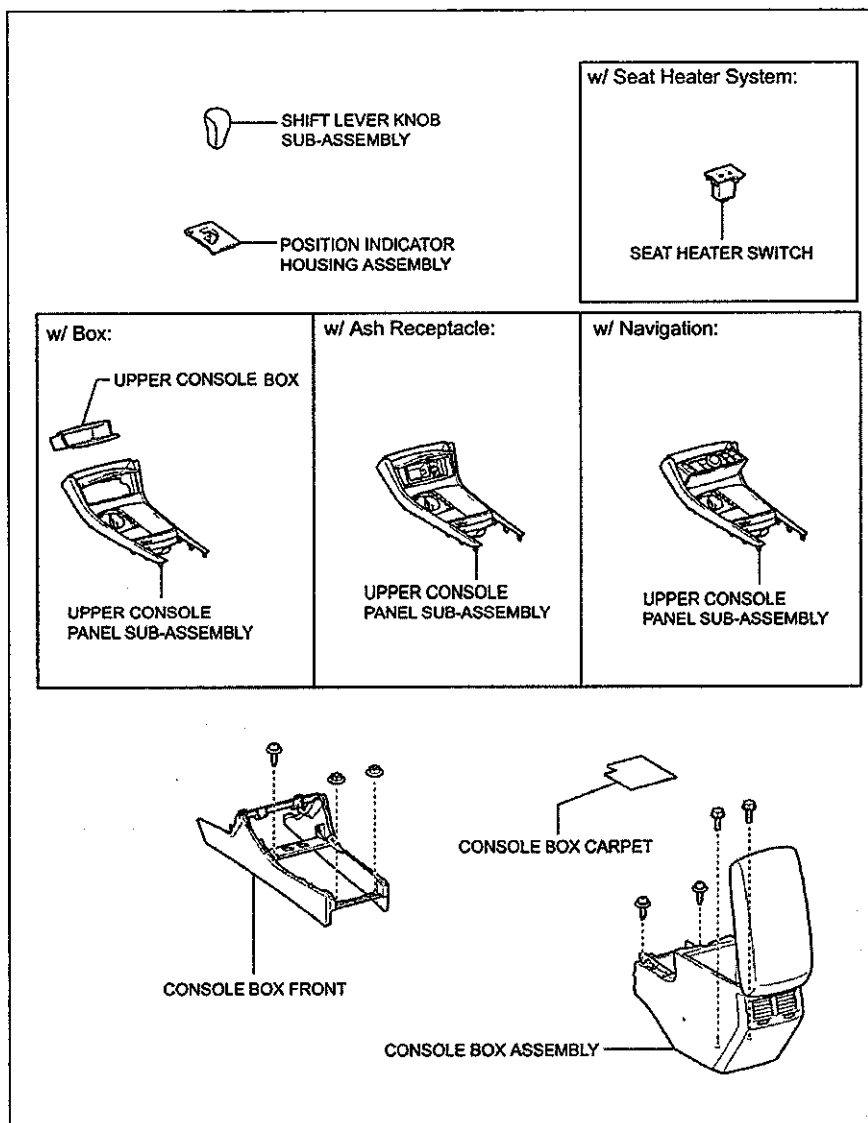
Repair Instructions:

- **Make sure to follow all manufacturer directions and cautions when using the Epoxy Putty.**
- Fill in the pin hole/cavity with the Epoxy Putty, and then smooth it out with a wet finger as outlined in the instructions included with the putty.

Notes:

- Make sure to use black Epoxy Putty, both brands listed above are offered in that color.
- Milliput® Black Epoxy Putty is from a UK supplier, and may be difficult to locate in the US. If you should encounter this, please utilize KBS Coatings - NuMetal® Epoxy Putty (Black) that is locally supplied and easier to locate.

D. FLOOR CARPET MODIFICATION



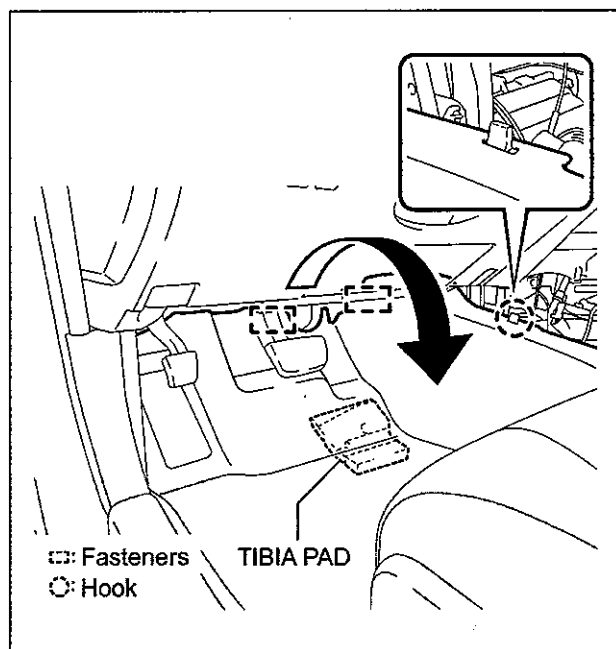
1. REMOVE THE FOLLOWING COMPONENTS

Click here to watch the video to supplement steps 1-6

- Shift lever knob sub-assembly
- Position indicator housing assembly
- Seat heater switch (*if equipped*)
- Upper console panel sub-assembly
- Console box carpet
- Console box assembly
- Front console box

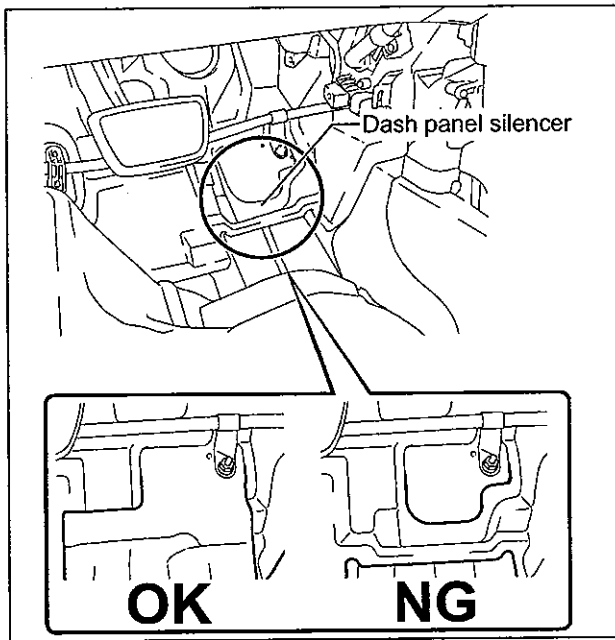
NOTE

For additional information on removal of the components above, please refer to TIS.



2. PULL BACK THE FLOOR CARPET

- Disengage the 2 fasteners.
- Disengage the floor carpet from the hook and pull it back as illustrated.

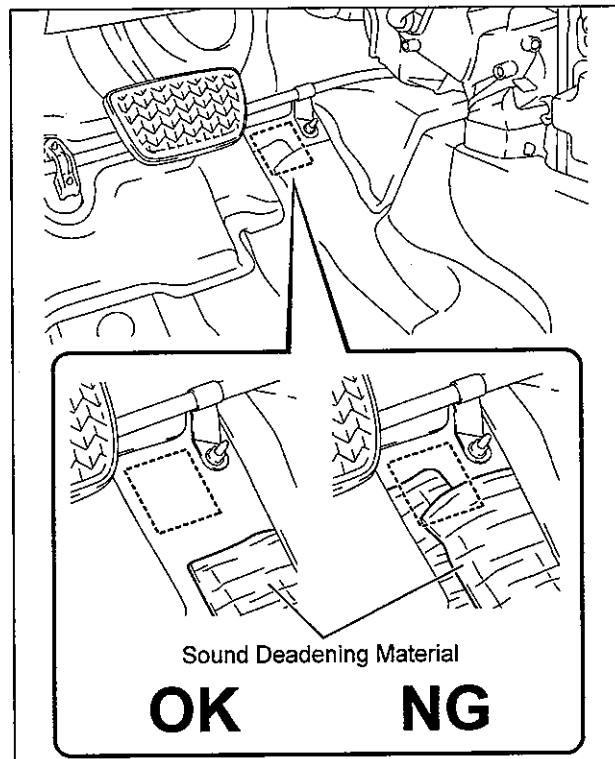


3. INSPECT THE LOWER PORTION OF THE FABRIC FLOOR SILENCING MATERIAL

- a) Inspect the lower portion of the fabric floor silencing material.
 - If OK, proceed to step 4 "RUBBER PAD APPLICATION" below.
 - If NG, please refer to APPENDIX "B" for "CUT THE FLOOR SILENCING MATERIAL"

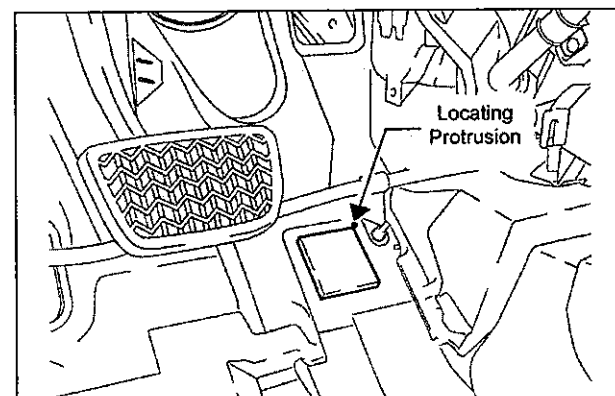
NOTE:

The fabric floor silencing material is a soft, gray, paper-like material beneath the carpet.

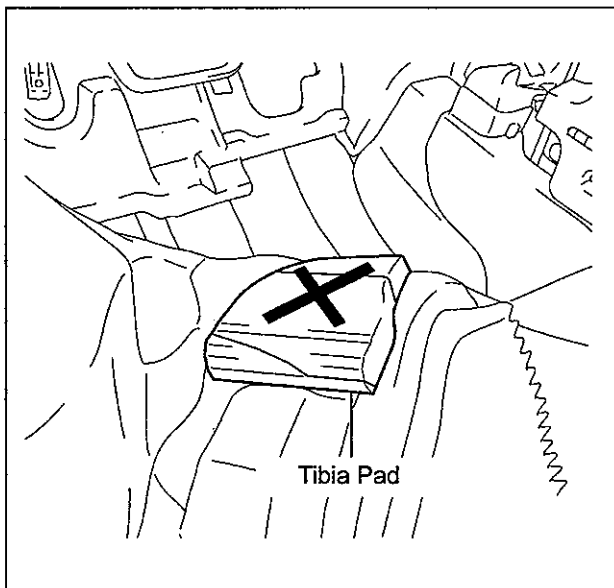


4. RUBBER PAD APPLICATION

- a) Inspect the rubber pad application area for sound deadening material.
 - If OK (no sound deadening material in pad application area), proceed to step "b" below.
 - If NG (sound deadening material found in application area), please refer to APPENDIX "C" for "REMOVE THE SOUND DEADENING MATERIAL".



- b) Clean and degrease the rubber pad application area.
- c) Peel the double sided tape cover off the **NEW** rubber pad.
- d) Apply the rubber pad to the floor pan. The upper right corner of the rubber pad needs to be positioned next to the locating protrusion.

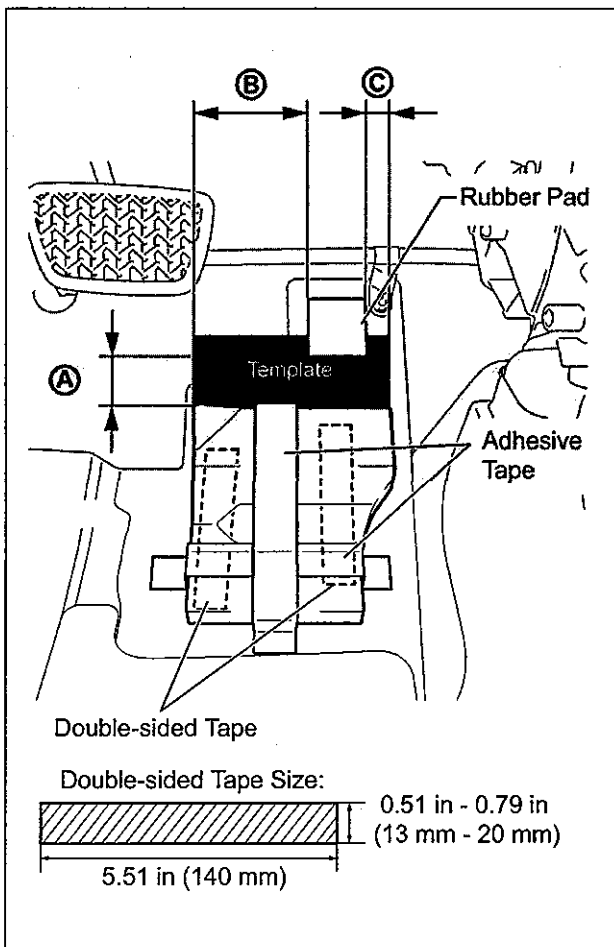


5. REMOVE THE TIBIA PADS

- Place an "X" mark on the tibia pads before removing. This will prevent them from being mixed up with the new pads.
- Using a hair dryer or a low temperature heat gun, warm up the carpet side of the tibia pads until the adhesive is loose. This will make it easier to remove the tibia pads from the carpet. **Pay close attention when using the hair dryer or low temperature heat gun to prevent damage to the carpet.**
- Remove the tibia pads. **CAUTION: DO NOT** forcefully pull the pads. Doing so may damage the carpet. If necessary, re-heat the carpet to make the adhesive more pliable.



Carefully take the time to understand Step 6 (Next step). It is necessary to correctly complete this procedure to prevent the tibia pads from slipping.



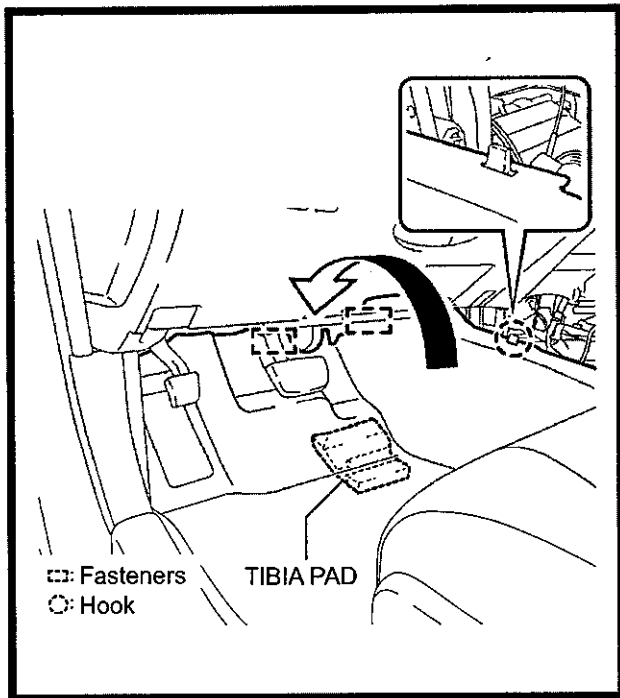
6. INSTALL THE NEW TIBIA PADS

- Use the Tibia Pad Placement Template (Template is located in the Appendix) to identify the location of the **NEW** Tibia pad on the floor pan.
- Apply double sided tape to the bottom (floor pan side) of the tibia pads and position the **NEW** Tibia pad to the floor pan as illustrated.
- Remove template.
- Apply a piece of industrial adhesive tape from the top to the bottom of the tibia pads.
- Apply a second piece of industrial adhesive tape from the left to the right side of the tibia pads.

NOTE:

Both pieces of industrial adhesive tape should have a good contact surface to the floor pan.

Part	Length	
A	1.96 in	49.9 mm
B	3.25 in	82.6 mm
C	0.61 in	15.4 mm

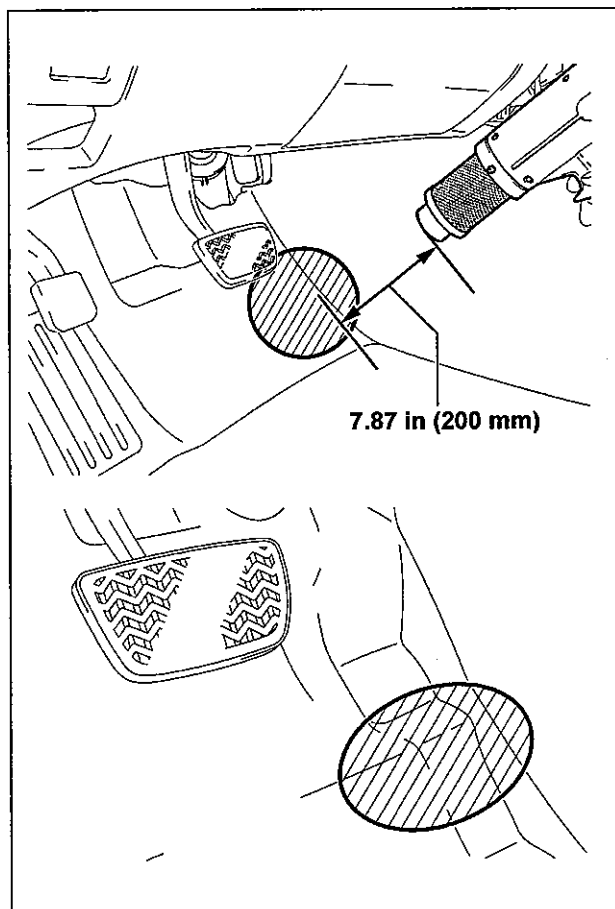


Carefully take the time to properly perform Steps 6f and 6g below. Once completed, confirm the floor carpet is properly positioned and secured by the hook and fasteners.

- f) Place the floor carpet back into position and engage the hook as shown in the illustration.
- g) Engage the 2 fasteners.

NOTE:

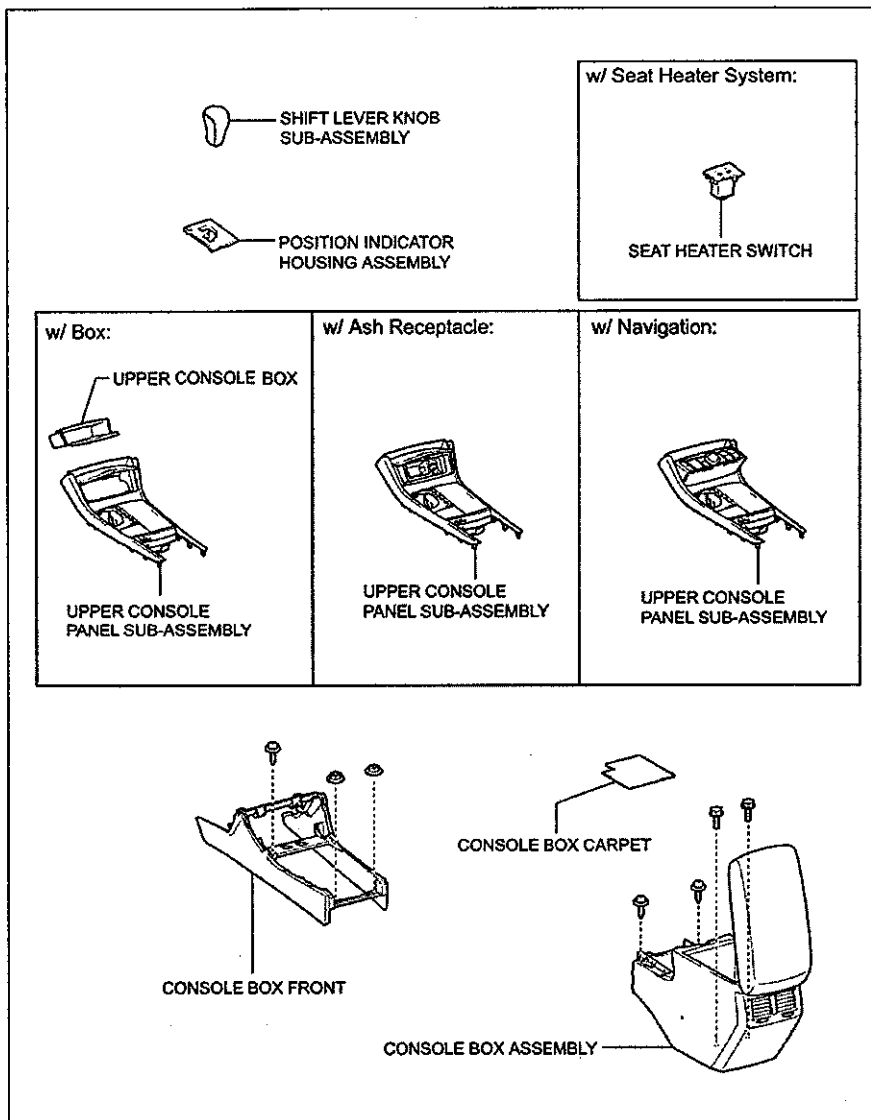
Be careful not to detach the tibia pads when placing the carpet back into position.



- h) Heat the floor carpet area for 2 minutes as shown and smooth it out by pushing it with your hand. Heat the same area again for another minute, and smooth the carpet firmly.

NOTE:

- Always wear protective gloves when heating the floor carpet.
- Keep the hair dryer/ low temperature heat gun more than 8 inches (20 cm) away from the floor carpet, and stop after 1 or 2 minute intervals. Continuous heating of the floor carpet may cause damage.
- DO NOT leave hair drier or low temperature heat gun inside the vehicle when it is hot, to prevent unintended heat damage to interior parts.

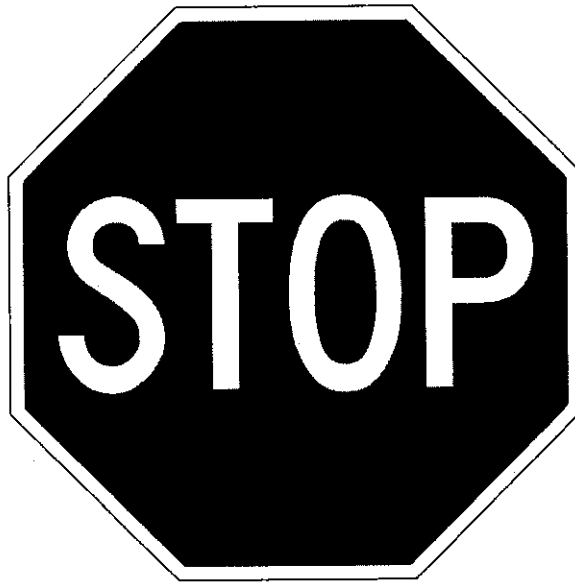


7. REINSTALL THE FOLLOWING COMPONENTS

- Front console box
- Console box assembly
- Console box carpet
- Upper console panel sub-assembly
- Seat heater switch (*if equipped*)
- Position indicator housing assembly
- Shift lever knob sub-assembly

NOTE

For additional information on installation of the components above, please refer to TIS.



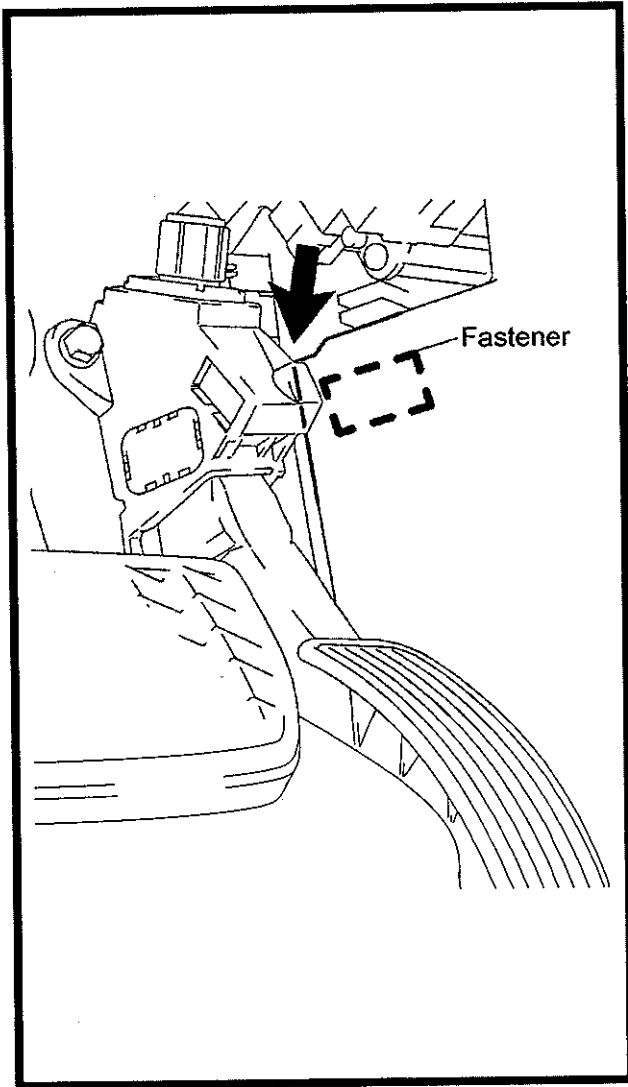
Important Note:
For vehicles involved in A0A
“CTS Accelerator Pedal Reinforcement Bar Installation”

1. Verify TIS / Vehicle Inquiry to confirm if the vehicle you are repairing is also involved in A0A.
2. If the vehicle is involved, complete Safety Recall A0A “CTS Accelerator Pedal Reinforcement Bar Installation” at this point.
3. Install the Reinforcement Bar only after cutting the accelerator pedal, if not previously completed.

Click here for a link to A0A

4. Resume these instructions after completing A0A.

E. REINSTALL THE ACCELERATOR PEDAL ASSEMBLY



1. REINSTALL THE ACCELERATOR PEDAL ASSEMBLY

Click here to watch the video to supplement steps 1-8

- Remove and discard the masking tape and bubble wrap from the accelerator pedal assembly, while it is inside the vehicle.
- Reinstall the pedal with the 2 bolts and torque to specification.

Torque Specification: 5.4 Nm (55 kgf cm, 48 in. lbf)

- Reconnect the accelerator pedal connector.

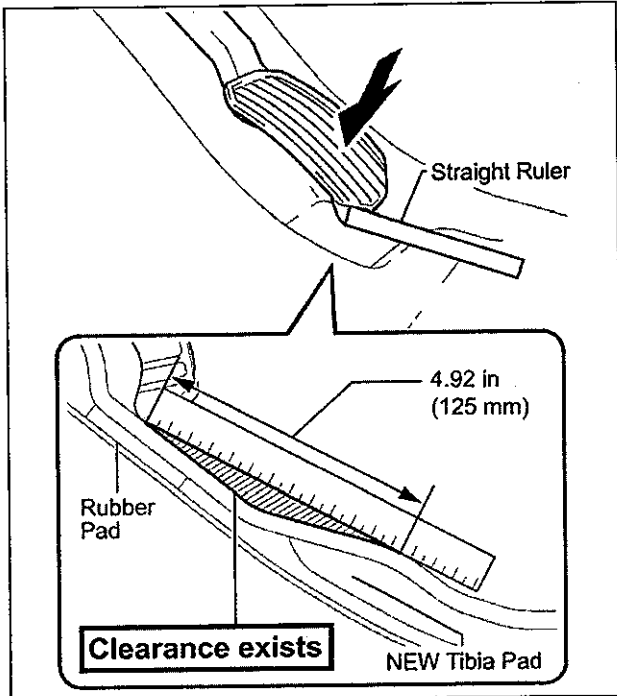


Carefully take the time to properly perform Step 1d below. It is necessary to correctly complete this step so the pedal does not get caught by the floor carpet during operation.

- Confirm the floor carpet is secured by the fastener and the corner of the carpet is behind the accelerator pedal assembly as shown.
- Reconnect the negative battery cable.
- Set the clock and radio station presets.
- Reinitialize the vehicle system(s) as outlined in the repair manual on TIS for the vehicle you are working on.

NOTE

- DO NOT** reuse the bubble wrap.
- For additional information on accelerator pedal installation, please refer to TIS.



2. INSPECT THE FLOOR CARPET

- With the accelerator pedal fully depressed, confirm clearance exists between the floor carpet and the straight ruler as shown.
- If no clearance exists, reshape the carpet again.
- Confirm the claw and all fasteners of the floor carpet are securely attached.

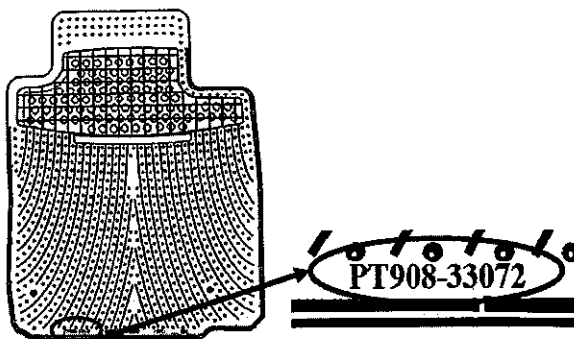
3. INSPECT THE FLOOR MAT

- Inspect the carpet and floor mat and clean them as appropriate.
- Confirm the correct floor mat for this model is secured with the retaining hooks (clips).
 - If the grommets in the floor for the vehicle are in poor condition, refer to the appropriate TSB and repair the grommets.

NOTE:

- If a Recalled All Weather Floor Mat (AWFM) has been identified, remove the AWFM from the vehicle and **CUT THE RECALLED AWFM SO THAT IT CANNOT BE REUSED.**
- You may remove the semi-permanent installation plastic straps for the carpeted floor mat once the repair is completed.

Locate the ten digit floor mat part number on the bottom of the back side of the mat as illustrated below.
PLEASE NOTE, the floor mat part numbers are 12 digits but only the first ten are shown.



For Carpeted Floor Mats:

Utilizing the ten digit part number and the chart below, confirm the vehicle has the correct carpeted floor mat.

Part Number	Model	Type	02	03	04	05	06	07	08	09	10	Color
PT206-07090-02	Avalon	Carpeted						x	x			Ivory
PT206-07090-16	Avalon	Carpeted						x	x			Graphite
PT206-07090-17	Avalon	Carpeted						x	x			Lt Gray
PT206-07090-18	Avalon	Carpeted						x	x			Dk Charcoal
PT548-07050-10	Avalon	Carpeted	x	x	x	x	x	x	x			Ivory
PT548-07050-11	Avalon	Carpeted	x	x	x	x	x	x	x			Lt Gray
PT548-07050-12	Avalon	Carpeted	x	x	x	x	x	x	x			Dk Charcoal
PT548-07050-22	Avalon	Carpeted	x	x	x	x	x	x	x			Graphite
PT548-07070-10	Avalon	Carpeted				x	x	x	x			Ivory
PT548-07070-11	Avalon	Carpeted				x	x	x	x			Lt Gray
PT548-07070-12	Avalon	Carpeted				x	x	x	x			Dk Charcoal
PT548-07070-22	Avalon	Carpeted				x	x	x	x			Graphite

For All Weather Floor Mats (AWFM):

Utilizing the ten digit part number and the chart below, confirm the vehicle has the newly designed AWFM.

Part Number	Model	Type	02	03	04	05	06	07	08	09	10	Color
PT908-0710W-02	Avalon	All Weather	x	x	x	x	x	x	x	x		Black
PT908-0710W-14	Avalon	All Weather	x	x	x	x	x	x	x	x		Brown

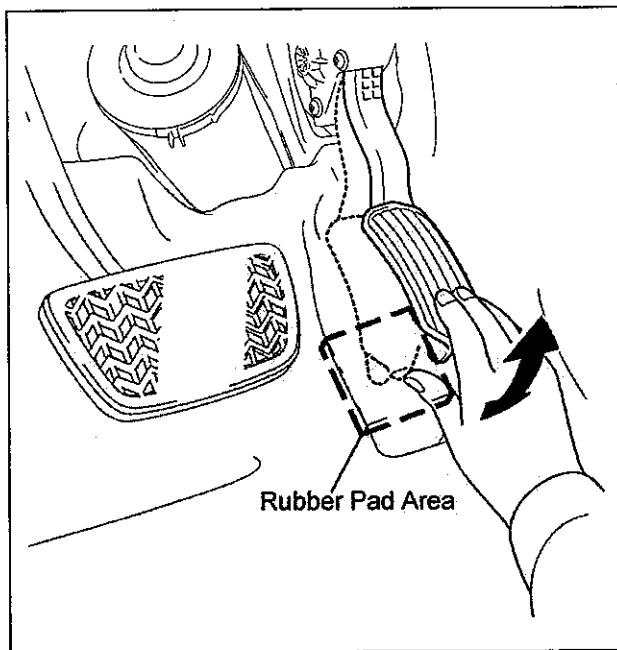
NOTE:

The part numbers listed above are for the 2 piece (driver & front passenger) campaign set ONLY.

DO NOT use the recalled AWFM listed below. These AWFM must be removed from the vehicle and recovered by the dealer.

Part Number	Model	Type	02	03	04	05	06	07	08	09	10	Color
PT908-07050-02	Avalon - Do not use	All Weather	x	x	x	x	x	x	x	x		Black
PT908-07050-14	Avalon - Do not use	All Weather	x	x	x	x	x	x	x	x		Brown

All recalled AWFM will be placed on Warranty Parts Recovery, and dealers will be required to return them to TMS. AWFM that are not returned will result in the claim being debited.



- c) Confirm the pedal does not get caught on the floor or floor mat during operation.
- d) Confirm the pedal operates properly.
- e) Confirm that the bottom of the pedal contacts the rubber pad area when the accelerator pedal is fully depressed.

4. INSPECT THE ACCELERATOR PEDAL ASSEMBLY OPERATION

- a) Connect Techstream to the DLC3.
- b) Enter the following menus: Chassis / ABS-VSC-TRAC / Data List.
- c) Check the values by referring to the table below.

Tester Display	Measurement:	Normal Condition
Accelerator Opening Angle (Accelerator %)	Accelerator Opening Angle Min: 0%, Max: 100%	Accelerator Pedal Released: 0% Accelerator Pedal Fully Depressed: 100%

Model Year	Current CID	New CID
2005	30701000	30701200
	30701100	
	30707200 *	
2006 - 2007	30705000	30707300
	30705100	
	30707000	
	30707100	
	30707200	
2008 - 2009	30708000	30708200
	30708100	
2010	30710000	30710100

5. REFLASH THE ECU

- a) Reflash the ECU with the **NEW** Override System software following T-SB-0064-10.
- b) For Calibration ID, please refer to the table on the left.

* NOTE:

There are approximately **thirty** '05 model year Avalon vehicles with this specific CID, which may require additional parts. Refer to APPENDIX "D. 2005 Model Year AVALON WITH CID 30707200" for details. This does not affect any other Model Year Avalon.

6. CHECK FOR DTC CODES

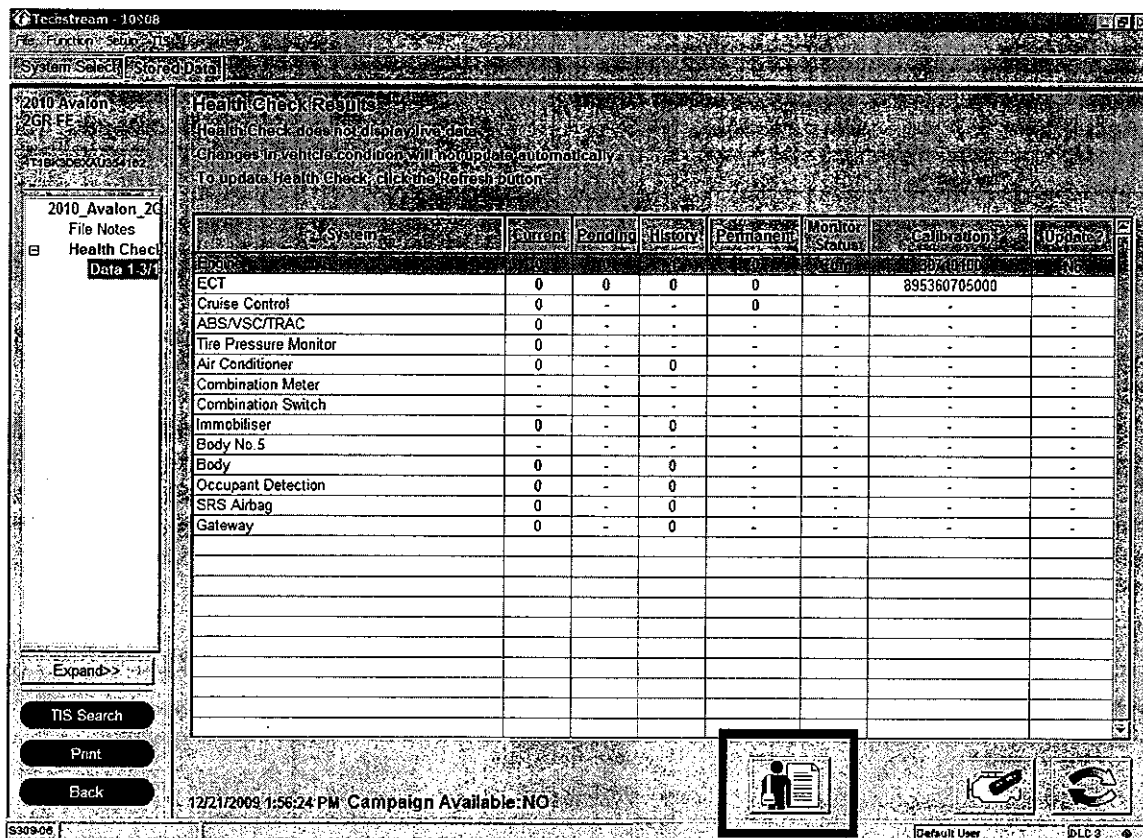
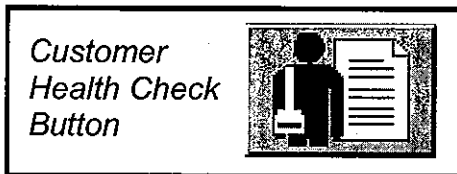
- Connect the Techstream to the DLC3.
- Check for DTC codes.

NOTE:

- A U0101 DTC may set during reprogramming. This is normal and should be cleared.
- For 2010 MY, a U0101 Permanent DTC may remain after DTCs are cleared. This is normal. A Permanent DTC does not illuminate the MIL and will not be cleared by a scantool. If the DTCs are cleared using Techstream but a U0101 Permanent DTC remains, there is no need to troubleshoot. The permanent DTC will clear during customer driving after completing the Universal Trip Drive Pattern.
- If any Pending, Current, and/or History DTCs are set, troubleshoot according to the repair manual.

7. PRINT CUSTOMER HEALTH CHECK REPORT

- a) From the Health Check Results screen select the Customer Health Check Report button (TIS will launch when button is pressed).



- b) Log in to TIS.
- c) Input Vehicle Mileage and Repair Order number.
- d) Check the "Performed" radio button for the 90L campaign and any other campaigns completed during this service event.
- e) Select the Report button.

Diagnostic Report

Vehicle Information

Mileage:

Repair Order:

Our systems show the following campaigns are outstanding. Have any of these campaigns been completed? (Check for SSC door label if unsure.)

90L ☒ Performed ☐ Not Performed

- f) Confirm Customer Health Check Report information is correct.

Diagnostic Report

Vehicle Information

Vehicle: 2010 Avalon

VIN: 4T1BK3DBXAU354162

Mileage: 7787

Repair Order: 77888

Health Check Summary

Checkpoints	Status	Comments
Powertrain Systems	All systems OK	
Chassis Systems	All systems OK	
Electrical Systems	All systems OK	
Network Systems	All systems OK	
Service Campaigns	No Action Required	90L Performed

Performed: 12/21/09, 3:49 PM

- g) Print Customer Health Check Report from TIS.
- h) Sign and provide to the customer.

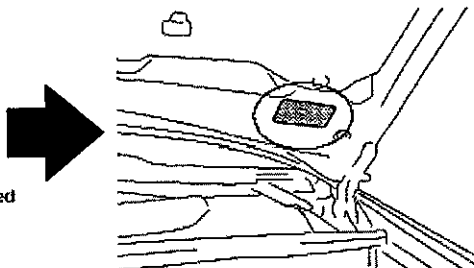
8. TEST DRIVE THE VEHICLE AND INSPECT FOR ANY PROBLEMS

9. AFFIX THE AUTHORIZED MODIFICATIONS LABEL

TOYOTA MOTOR CORPORATION AUTHORIZED MODIFICATIONS	
THE FOLLOWING MODIFICATIONS HAVE BEEN MADE:	
Replacement ECU Part Number	89661-48470
Calibration ID(s)	34845100, 54813100
THESE MODIFICATIONS HAVE BEEN APPROVED AS APPROPRIATE BY EPA AND CARB	
Dealer Code	DEALER CODE: 31301
	DATE: 8/2/06
	CHANGE AUTHORITY: TSIB EG002-05

TSIB or Campaign Number

Date Completed



- a) Using a permanent marker or ball point pen, complete the Authorized Modifications Label and attach it to the underside of the hood in front of the driver as shown.

• Replacement ECU Part Number & Calibration ID(s)

Model Year	Replacement ECU Part Number	New Calibration ID
2005	89661-07412	30701200
	89661-07473*	30707300*
2006 – 2007	89661-07473	30707300
2008 – 2009	89661-07482	30708200
2010	89661-07511	30710100

* ONLY for 2005 model year Avalon vehicles requiring TSB EG033-07.

- Dealer Code
- Date Completed
- Campaign Number

NOTE:

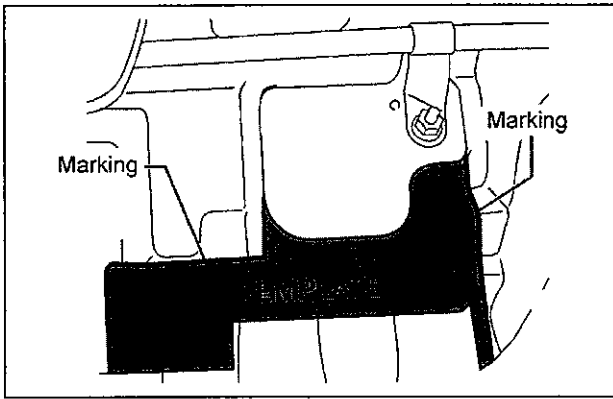
Authorized Modifications Label (in packages of 25) can be ordered through the Material Distribution Center (MDC), P/N 00451-00001-LBL.

VI. APPENDIX

A. RECALLED PARTS DISPOSAL

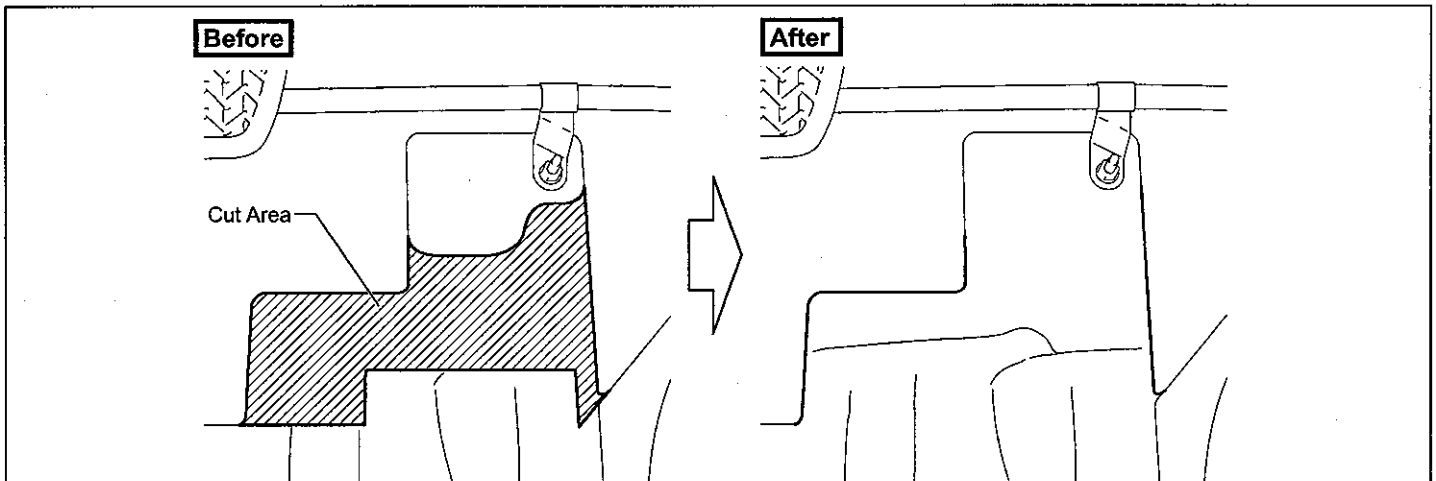
As required by Federal Regulations, please make sure all recalled parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***

B. CUT THE FABRIC FLOOR SILENCING MATERIAL

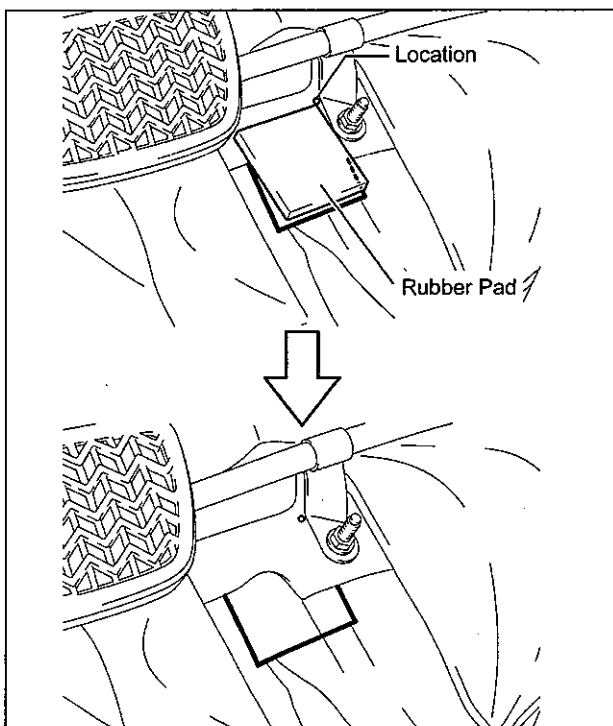


- a) Photocopy and cut out the template located at the end of the appendix.

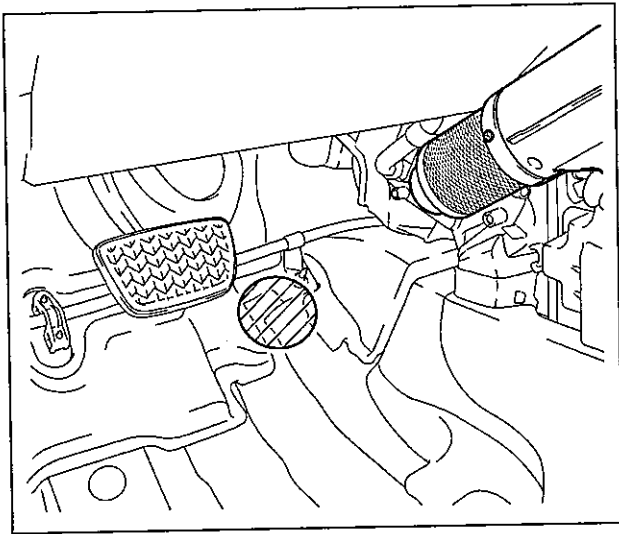
- b) Hold the template against the dash panel silencer and mark the template outline with a pen.



C. REMOVE THE SOUND DEADENING MATERIAL



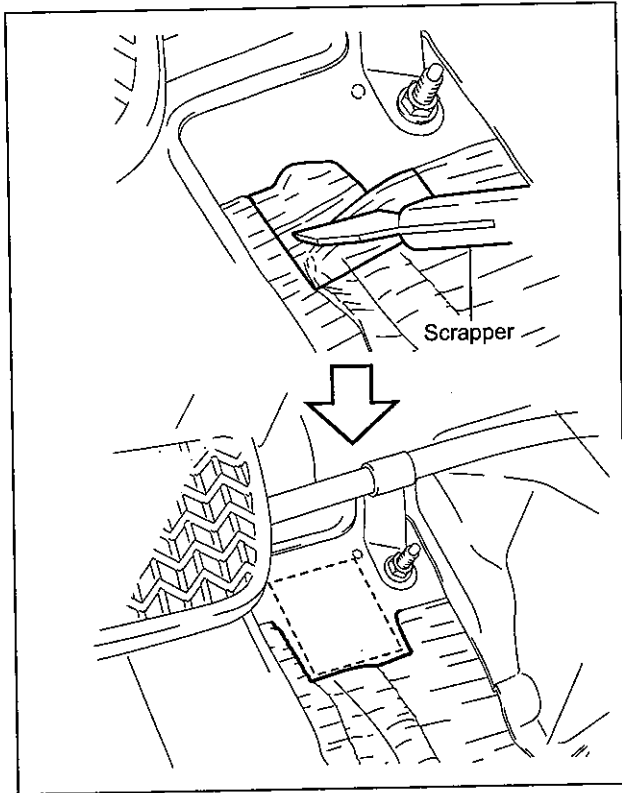
- a) Temporarily place the rubber pad on the floor panel as shown, and outline the pad on the sound deadening material with a ball point pen.



- b) Using a hair dryer or low temperature heat gun, warm up the sound deadening material until it becomes soft.

NOTE:

- Make sure not to damage the fabric floor silencing material.
- Pay close attention when using the hair dryer or low temperature heat gun to prevent damage to the carpet.

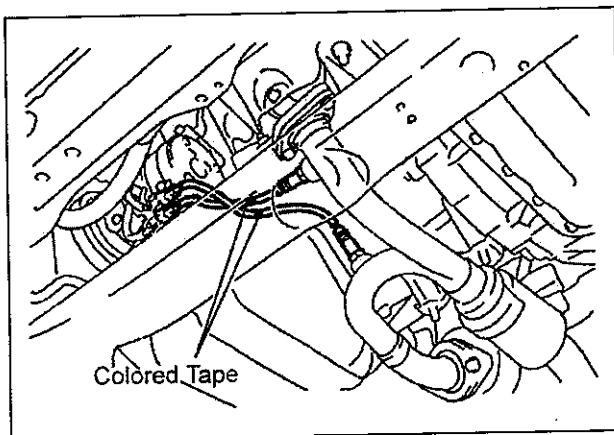


- c) Using a scraper, remove the fabric floor silencing material from the rubber pad application area.
 d) Remove any loose sound deadening material from the rubber pad application area.

NOTE:

- Wear protective gloves during the scraping process.
- Warm up the sound deadening material again, if it becomes hard during removal.
- Remove the sound deadening material until the rubber pad application surface is smooth.
- Make sure not to damage the paint film on the floor panel when scraping.
- Apply touch up paint if the paint film was damaged.

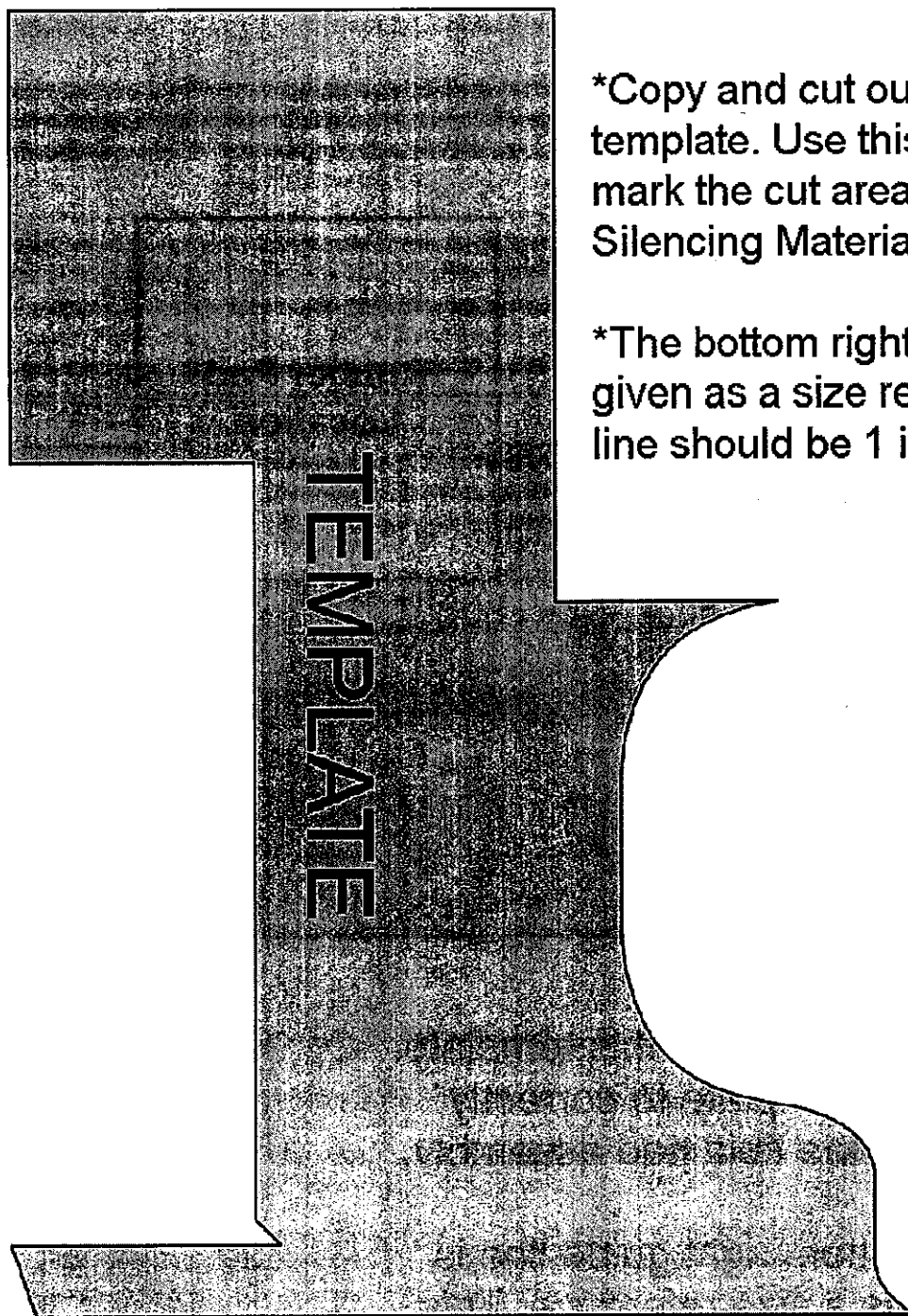
D. 2005 AVALON WITH CID 30707200



- a) If the CID for a 2005 model year Avalon is 30707200, please perform the following inspection...

- Check the tape color of the oxygen sensors. **Only about 30 Avalons nationwide will require this step.**
 - If the colors are gold and purple (P/N 89465-07070 and 89465-07080) proceed with the ECU reflash.
 - If the colors are silver and yellow (P/N 89465-07060 and 89465-07050) replace the fuel control feedback components as outlined in TSB EG033-07. When completed reflash the ECU with the *NEW* Override System software (CID 30707300) following T-SB-0064-10.

Floor Silencing Material Template



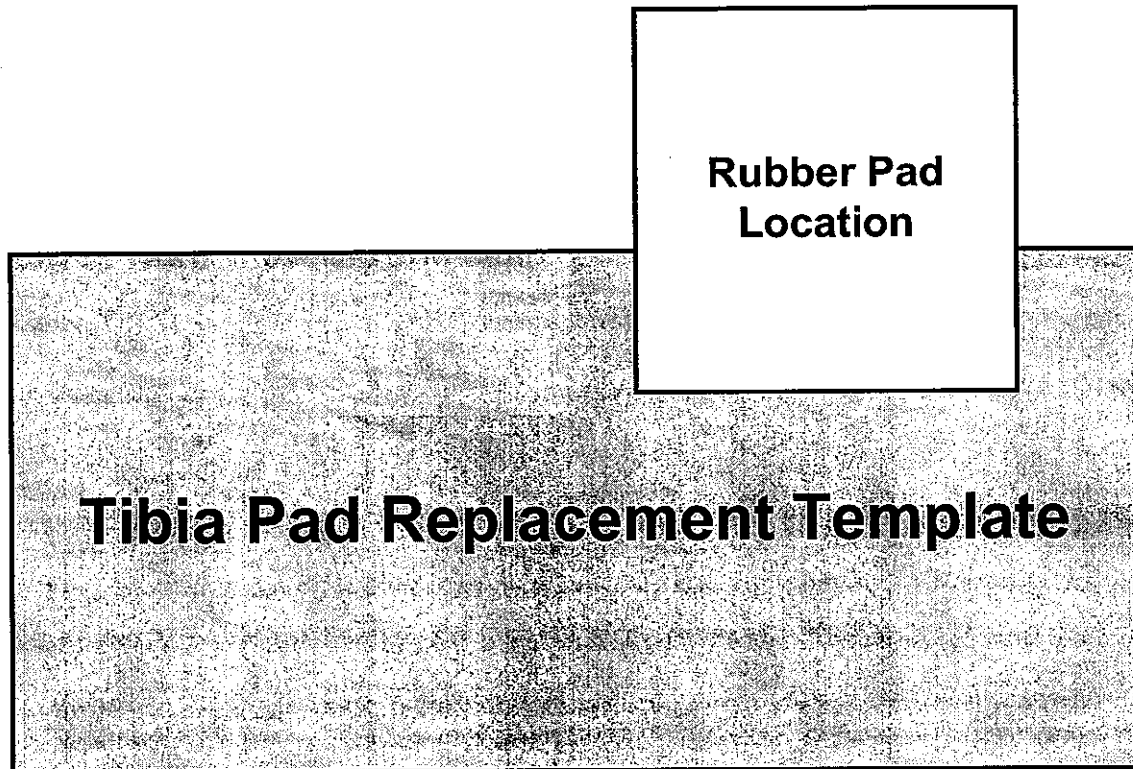
*Copy and cut out this template. Use this template to mark the cut area on the Floor Silencing Material.

*The bottom right guide line is given as a size reference. This line should be 1 inch in size.

1 inch
(25.4 mm)

1 inch
(25.4 mm)

Tibia Pad Placement Template



*Copy and cut out this template.
Use this template to correctly
position the tibia pad assembly.

*The bottom right guide line is
given as a size reference. This
line should be 1 inch in size.

