

Details of the Session

Date : 13.03.2021

Time: 9.30AM to 4.30 PM

Venue : Ford Research Laboratory (C-block ground floor)

Resource Person: Mr Shiek Dawood, FORD India Pvt Ltd, Chennai.

Student Participants List

Sl.No	Team	Reg No	Name of the Student	Year	Remarks
1	Red	922117114094	SankaraMoorthi B	IV	
2		922117114111	Thariq Anwar M	IV	
3		922117114086	Raghul M	IV	Team head
4		922117114089	Raj Ganga A	IV	
5		922118114001	Aakash R	III	
6	Blue	922117114043	Jegan Roy J	IV	
7		922117114050	Kavin Kailash P C	IV	
8		922117114096	Santhosh P	IV	Team head
9		922117114049	Kasi Viswanathan K	IV	
10		922118114054	Safeek Raja J	III	
11	Violet	922117114062	Mohammed Syed Abuthahir M	IV	
12		922117114063	Mohammed Thariq G	IV	Team head
13		922117114116	Vasanth S	IV	
14		922118114042	Nithya Kumar N G	III	





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Practice Session Attendance Report

Sl. No	Team	Reg No	Name of the Student	Year	Date:13.03.2021	
					FN	AN
1	Red	922117114094	SankaraMoorthi B	IV	Sankar	Sankar
2		922117114111	Thariq Anwar M	IV	Thariq	Thariq
3		922117114086	Raghul M	IV	Raghu	Raghu
4		922117114089	Raj Ganga A	IV	Raj	Raj
5		922118114001	Aakash R	III	Aakash	Aakash
6	Blue	922117114043	Jegan Roy J	IV	Jegan	Jegan
7		922117114050	Kavin Kailash P C	IV	Kavin	Kavin
8		922117114096	Santhosh P	IV	Santhosh	Santhosh
9		922117114049	Kasi Viswanathan K	IV	Kasi	Kasi
10		922118114054	Safeek Raja J	III	Safeek	Safeek
11	Violet	922117114062	Mohammed Syed Abuthahir M	IV	Mohammed	Mohammed
12		922117114063	Mohammed Thariq G	IV	Mohammed	Mohammed
13		922117114116	Vasanth S	IV	Vasanth	Vasanth
14		922118114042	Nithya Kumar N G	III	Nithya	Nithya

1. 

Faculty in charge


H.o.D

1.Mr.C.Silambarasan (AP/Mech)
2.Mr.B.Aravindh (AP/Mech)

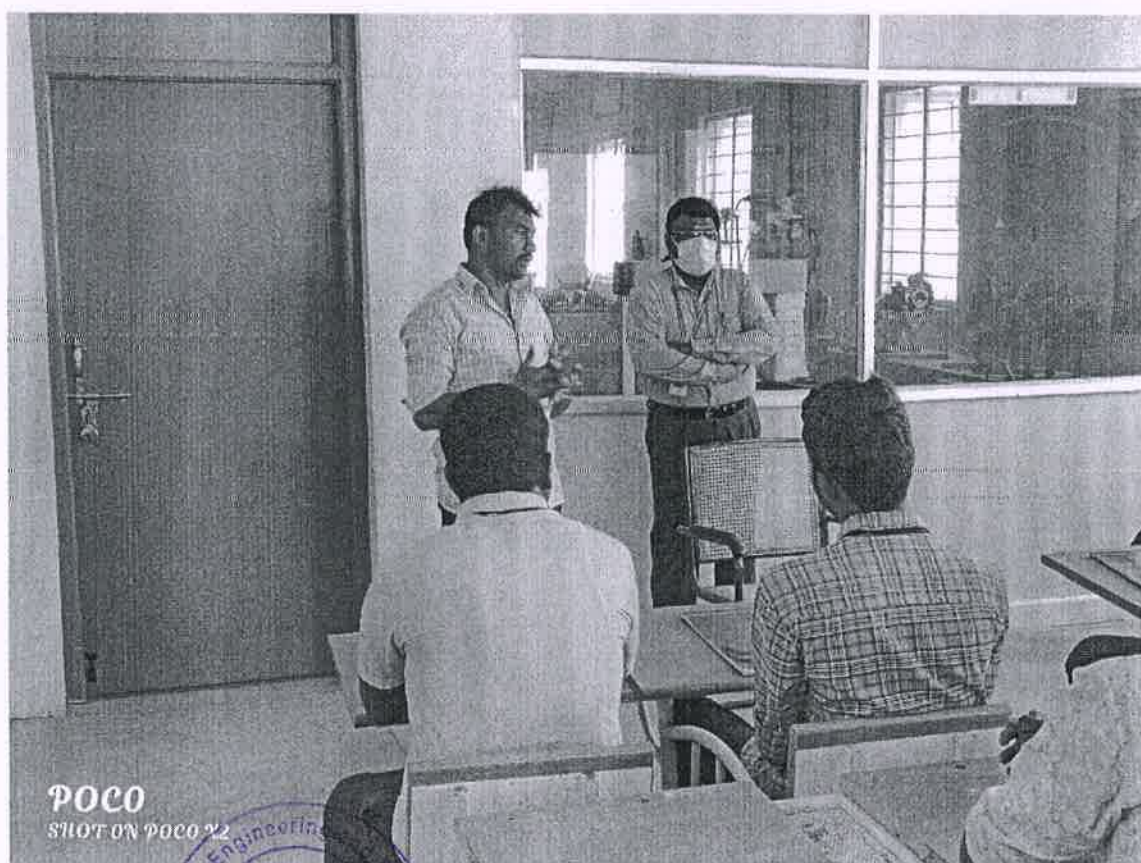
Dr.G.Sankaranarayanan (Professor & Head)





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Glimpses of the event



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2021

Ex no:1

Trim Board

Aim:

To assemble and disassemble the trim board on Ford Eco sport car.

Tools Required:

Screw driver-T20 using 3/8 ratchet tool.

Procedure:

Disassembling Process:

1. First open the car's front door of driver side, ON the ignition and lower down the window glass then OFF the ignition
2. At the middle of trim board decor strip is fixed, grab the down side of décor strip and pull the decor strip with hand force
3. Then remove the cover in the door open handle with the use of screwdriver
4. Trim board is fixed with 5 screws, One in the inside of door open handle two screws inside the décor strip panel and other two screws are fixed under the trim board, Remove the screws using T20 screw socket with 3/8 ratchet
5. After removing the screws grab the water bottle pocket holder with your two hands and pull out with your force at once, and pull up the trim board to leave from the clamp, don't remove the trim board suddenly because the sockets are connected with the trim board
6. Then press at the inner door open handle cable top side and remove it, press at the side of tweeter socket where the socket is connected and remove it, disconnect the center lock socket by pressing at the correct place where it is connected and remove two clips by using screwdriver, remove the two regulator socket by pressing at the socket remover point
7. Finally remove the trim board from the door and keep the trim board on the table

Assembling process:

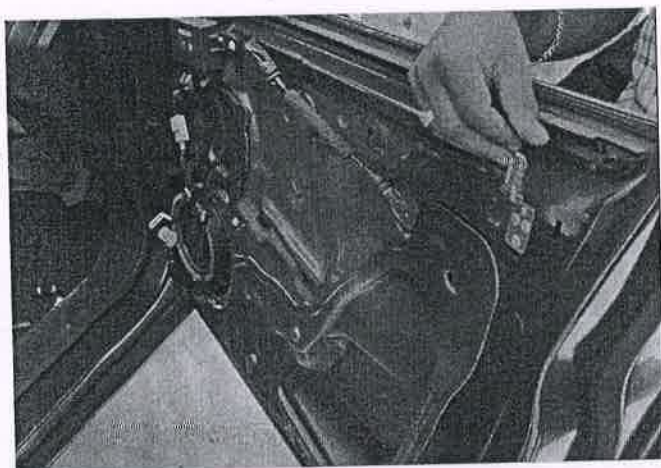
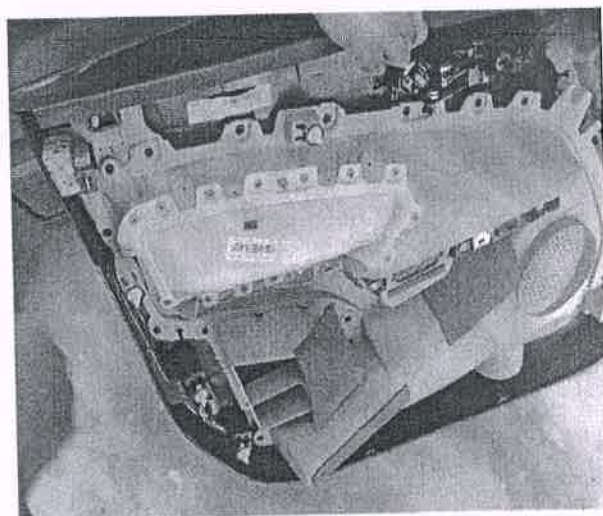
For assembling process, Last process of Disassembly is the first process of assembling.

1. Hold the trim board near to the door and connect all the sockets, inner door open handle and clips, while putting the sockets click sound will occur that is the indication of the socket is fixed properly, don't pull the socket for checking the click sound is enough.
2. Place the trim board from the upside of the window and place it in the clamps present in the upside and place the trim board clips in the door holes and pull to lock the trim board
3. And put all the 5 screws in the correct place
4. Put the inside open door handle cover and fix the décor strip
5. Finally up the window glass and close the door



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Pictures of trim board experiment




For better understanding video file also provided

Result:

Thus the disassembling and assembling of trim board was successfully done




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DDM and PDM

Ex no:2

Aim:

To Disassemble & assemble the DriverDoor Module (DDM) and Passenger Door Module PDM) on ford Ecosport car using tools kit.

Tools Required:

7mm socket bit using 3/8 rachet tool

Procedure:

Disassembling of DDMS PDM module:

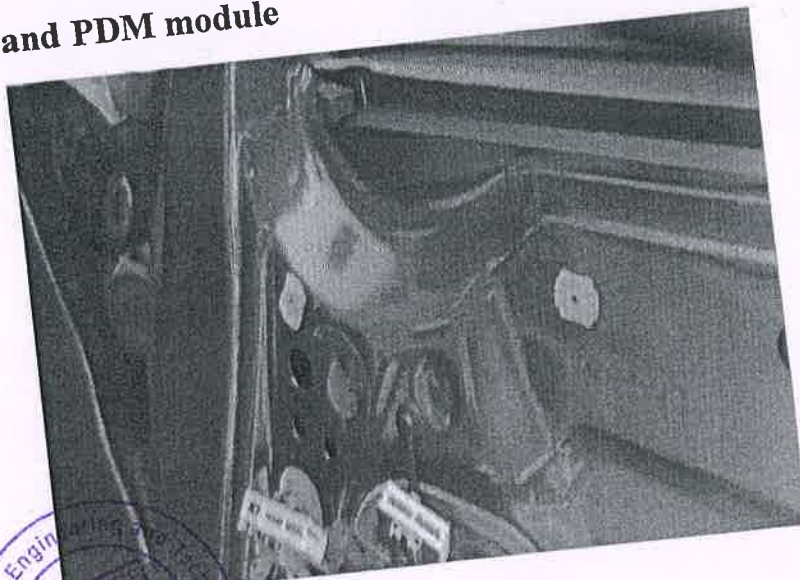
1. Follow the trim board disassembling process to disassemble the trim board
2. After removing trim board look at the top left corner there you can DDM and PDM module
3. Remove the two sockets by pressing the clip and gently pull where it is fixed and remove the socket
4. It is fixed with two 7mm bolt and remove the bolt using 7mm socket bit with 3/8 rachet
5. Finally remove the DDM and PDM module

Assembling DDM & PDM Module:

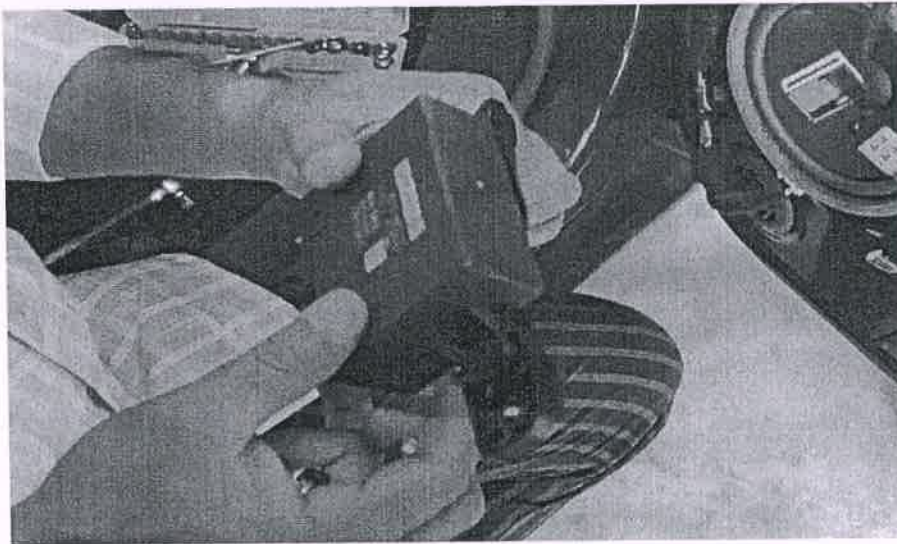
For assembling process ,Last processes of Disassembly is the first process of assembling.

1. Place the DDM and PDM module in the correct position
2. Put the bolts and tight the bolt ,don't tighten the bolt fully because the module is plastic so it may break if you fully tighten the bolt ,so tighten the bolt to the first level of tight and leave it
3. Finally assemble the trim board

Pictures of DDM and PDM module



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For better understanding video file also provided

Result:

Thus the disassembling and assembling of DDM and PDM module was done successfully.




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Ex no:3

Speaker

Aim:

To Disassemble and assemble the Speaker in Ford eco sport car Music system.

Tools Required:

2 bit screw driver

Procedure:

Disassembling of speaker:

1. Follow the trim board disassembling process to disassemble the trim board
2. Unplug the socket of the speaker by pressing the clip in the socket and pull gently
3. 3 screws are fixed in the speaker and remove the screws fixed in the speaker
4. And take out the speaker

Assembling of speaker:

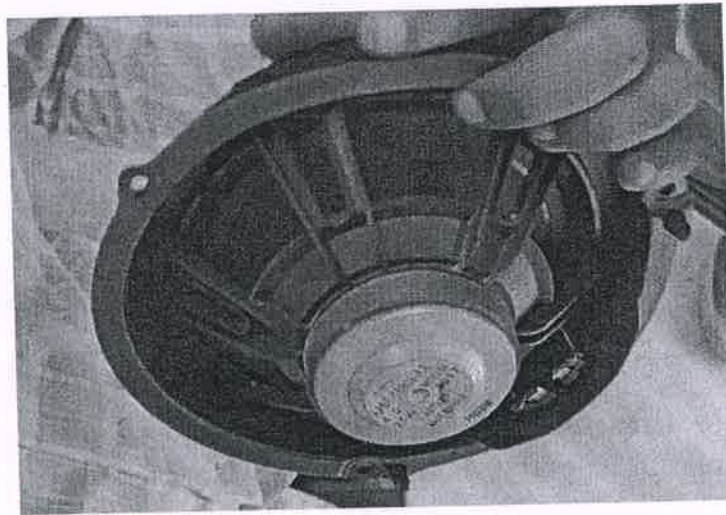
For assembling process, Last processes of Disassembly is the first process of assembling

1. Before placing the speaker check the back side of the speaker because the screws attracted by the speaker's magnet so check and place the speaker in the correct position, socket of the speaker is faced towards downside
2. Fix the screws and plug the socket
3. When click sound is occurred, it indicates the socket is connected properly
4. Finally assemble the trim board

Pictures of Speaker experiment



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For better understanding video file also provided

Result:

Thus the disassembling and assembling of the speaker was done successfully.




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Ex no:4

Mirror

Aim:

To Disassemble and Assemble the mirror in Ford eco sport car using tool kit.

Tool required:

T30 or 10 mm align key with 3/8 rachet

Procedure:

Disassembling of mirror:

1. Follow the trim board disassembling process to disassemble the trim board
2. Disconnect the socket by pressing and gently pull the clip of the socket and remove the socket
3. And push the socket inside the door, remove the water shield and pull the socket inside the door
4. Now remove the mirror cover by using screwdriver in the place where the gap is present in the mirror cover cap
5. 3 screws are fixed in the mirror ,remove the screws by using T30 with 3/8 rachet or 10 mm align key
6. And gently shake the mirror and pull the mirror
7. From inside push the socket to out side and take the mirror

Assembling of mirror:

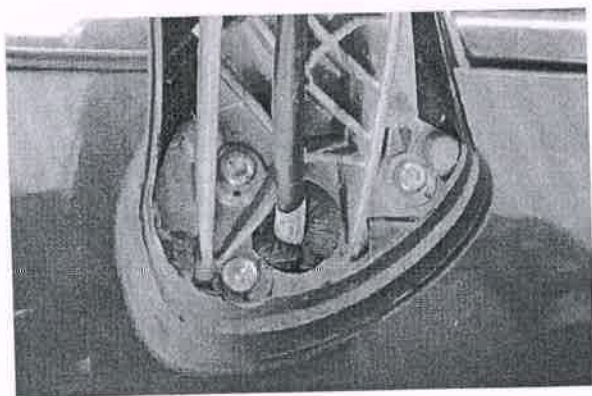
For assembling process ,Last processes of Disassembly is the first process of assembling

1. Take the socket from the mirror and put in the hole where the mirror is to be placed
2. Place the mirror and put all the screw using 10mm align key or T30 with 3/8 rachet
3. From inside the door take the socket and pull out of the door and fix the socket
4. And fix the water shield
5. Finally assemble the trim board

Pictures of Mirror experiment



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For better understanding video file also provided

Result:

Thus the disassembling and assembling of the mirror was done successfully



Dr.D.Senthil Kumar

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Ex no:5

Check Arm

Aim:

To disassemble & assemble the check arm in ford eco sport car using tool kit.

Tool required:

T40 and 10mm socket 3/8 rachet

Procedure:

Disassembling of check arm:

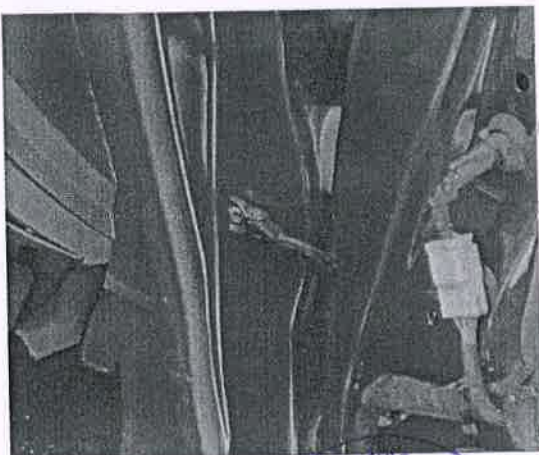
1. Follow the trim board disassembling process to disassemble the trim board
2. And follow the speaker disassembling process to disassemble the speaker
3. Take T40 with 3/8 socket and remove the screw in the check arm
4. And remove the bolts fixed in the door by using 10 mm socket with 3/8 rachet
5. Through the speaker gap put your hand inside the door and take the check arm outside

Assembling of check arm:

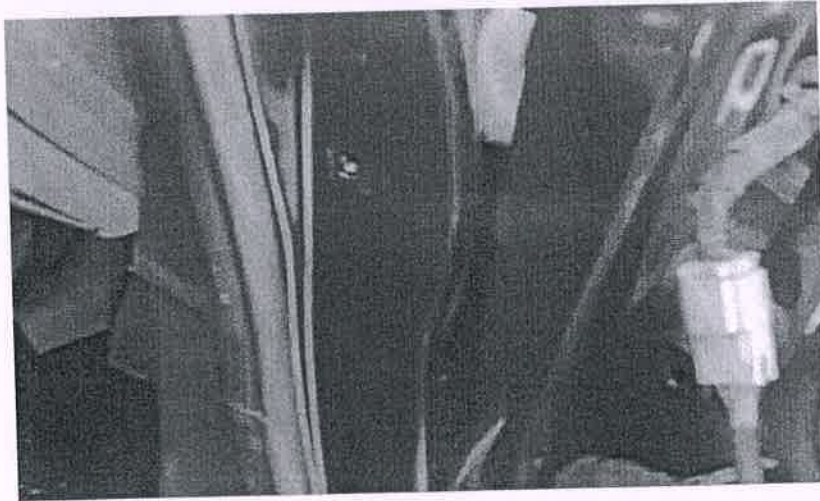
For assembling process, Last processes of Disassembly is the first process of assembling

1. Through the speaker gap place the check arm inside the door and place it in the correct position
2. And fix the bolts in the door side of the check arm
3. Put the screw and tight well
4. Assemble the speaker
5. Finally assemble the trim board

Pictures of Check arm experiment



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Result:

Thus the disassembling and assembling of check arm was done successfully




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