

Dashboard

Precautions:

- Strictly observe precautions for operation of air bag system, otherwise vehicle damage and personal injury may result.
- Before removal of an electrical connector, be sure to remove battery negative (-) and wait at least 1 minute; otherwise, vehicle damage may result.
- When removing and installing a component, prevent damage or scratches to the components removed.
- When removing the metal clamps from the trim parts, wrap the flat screwdriver edge with cloth.
- When installing the body trim parts, first confirm clamps securely fitted in the plate orifice on the body, then carefully press them in.
- When removing and installing a large component, be sure to have 2 persons work together so as to avoid dropping.
- When removing and installing a garnish, please do not use excessive force.

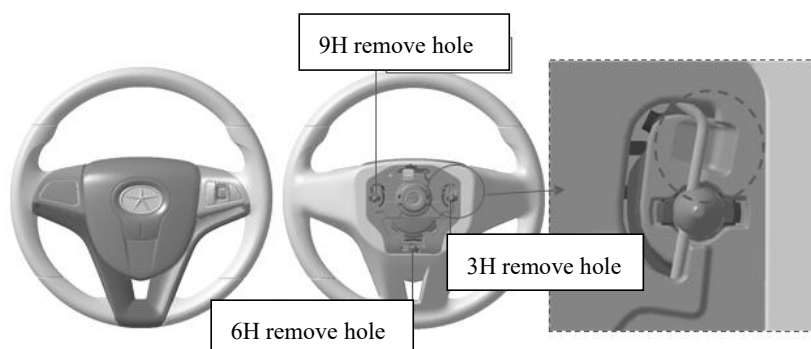
Driver side airbag module replacement

1. Removal

- 1) Disconnect the negative pole (-) of battery for more than 3 minutes.



- 2) Remove airbag module (DAB).



Schematic diagram of removing DAB (3 steps), disconnecting tool is a slotted screwdriver with length of 15cm.

① Disconnect 3H hole

Rotate steering wheel 90°anticlockwise, pry up 3H hole's groove with screwdriver (for detailed structure showed in diagram) and separate the DAB buckle with steering wheel framework.

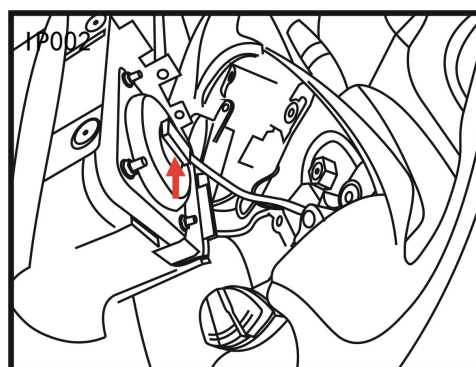
② Disconnect 6H hole

Rotate steering 90°anticlockwise, pry up 6H hole's groove with screwdriver (for detailed structure showed in diagram) and separate the DAB buckle with steering wheel framework.

③ Disconnect 9H hole

Put the steering wheel back to middle, rotate it 90°clockwise, pry up 6H hole's groove with screwdriver (for detailed structure showed in diagram) and separate the DAB buckle with steering wheel framework.

3) Disassemble the connector and take out the safety airbag module.



4) Place the safety airbag module properly as required. As shown in figure.



2. Installation

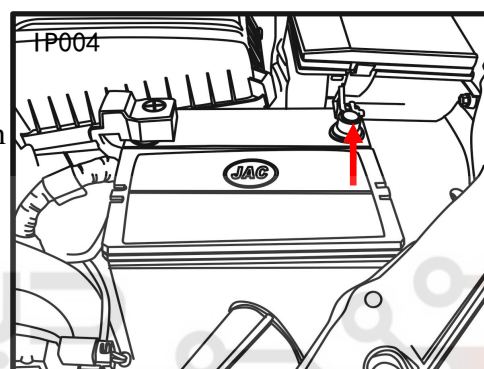
Installation is in the reversed order of removal.

Steering wheel replacement

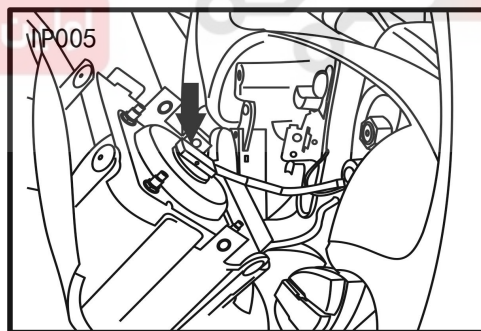
1. Removal

1) Place the ignition switch on the position “OFF”.

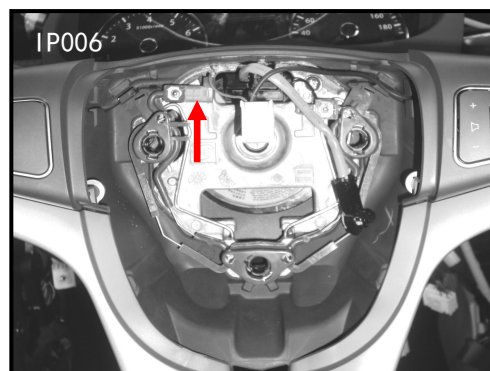
2) Remove negative (-) of battery.



3) Remove driver side air bag module, and disconnect driver side airbag module connector.

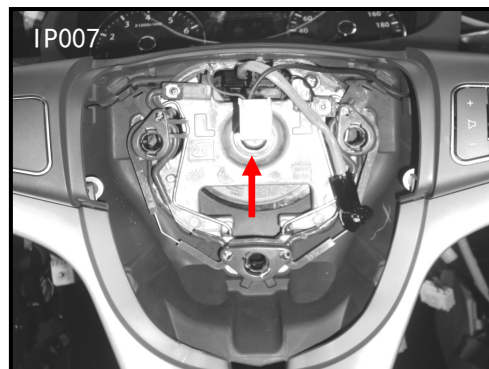


4) Disconnect horn button connector.



5) Draw a position mark on steering wheel hub and align this mark with the score on steering shaft spline.

6) Loosen steering wheel nut.



Caution:

■ Do not loosen nuts completely until steering wheel is loosened so as to avoid personal injury caused by excessive force applied during steering wheel removal.

7) Take off steering wheel.

2. Installation.

Installation is in the reversed order of removal. Note: When install DAB, just align the DAB to the steering wheel corresponding buckling place and press down. Meanwhile, check whether the matching gap is even.

■ Tightening torque of steering wheel nut: 42~52 N•m

Caution:

■ After finishing installation, make sure horn switch works normally and no interference and abnormal sound exist when you turn steering wheel.

■ After installation is completed, test air bag system using JAC special diagnostic tester to ensure the system works normally.

■ Steering wheel must be right in the middle with wheels in straight-ahead position.

Steering column protect cover replacement

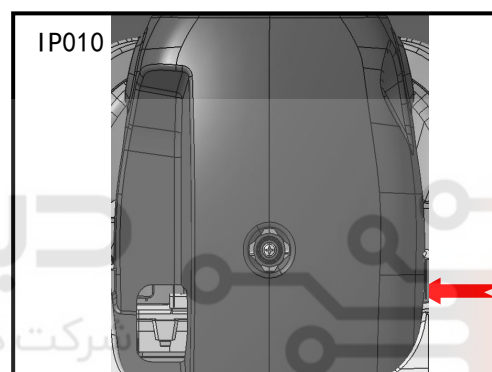
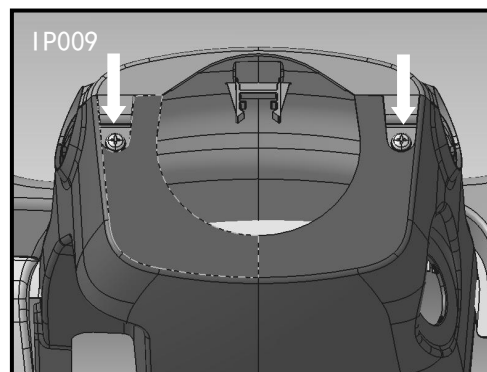
1. Removal

1) Disconnect the battery negative.

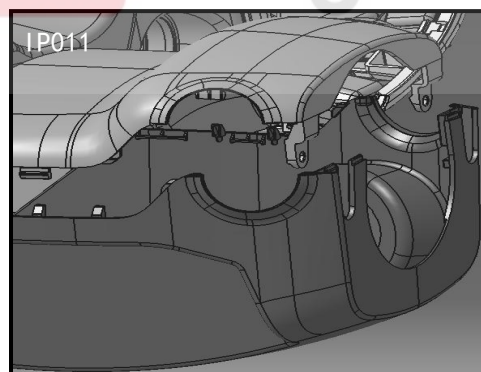


2) Remove steering wheel assembly, please refer to "Steering wheel replacement"

3) Remove 3 fixing bolts on the steering column lower housing.



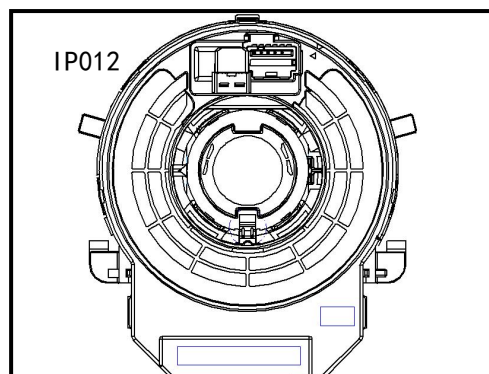
4) Remove steering column upper and lower housing.



2. Installation.

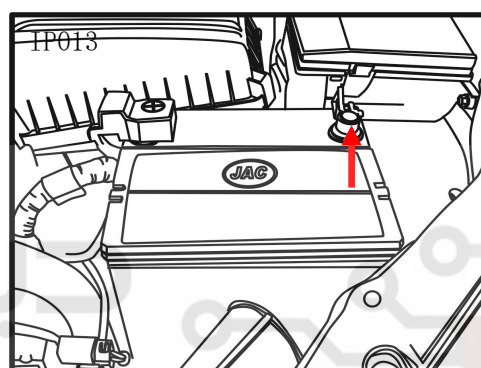
Installation is in the reversed order of removal.

Safety airbag Timer-spring replacement



1. Removal:

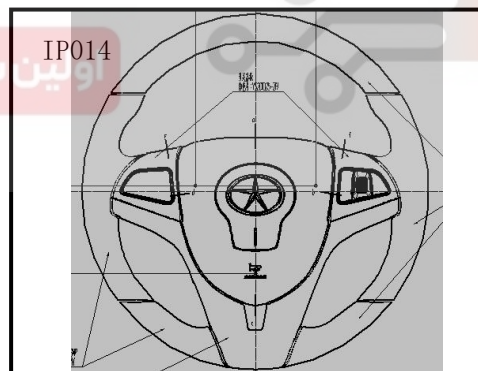
1) Disconnect the negative pole (-) of battery for more than 3 minutes.



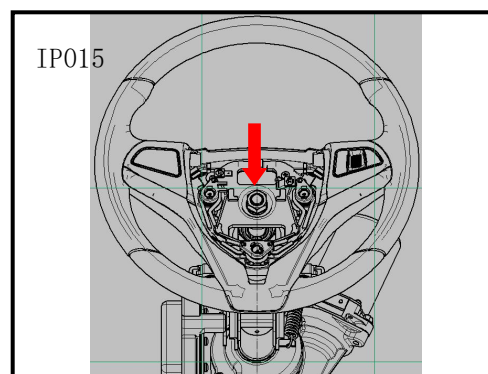
2) Remove the driver safety airbag

module, and take off Connector.

Refer to "Driver side airbag module replacement"



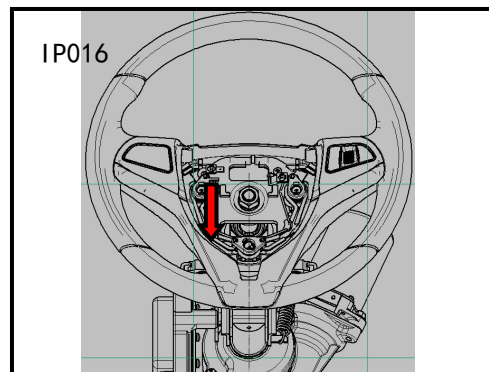
3) Remove screws securing the steering wheel and take off steering wheel.



Caution:

■ The fixing nuts can be fully taken out until the steering wheel is loosened, otherwise the steering wheel may cause personnel injury.

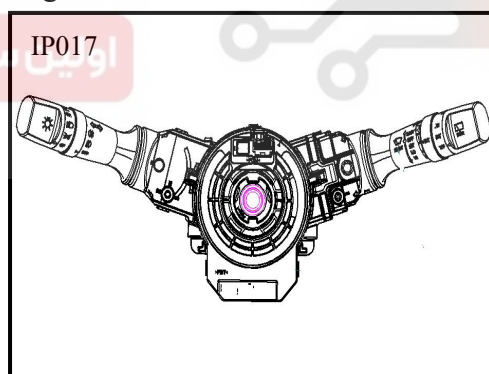
4) Disconnect the connector of horn.



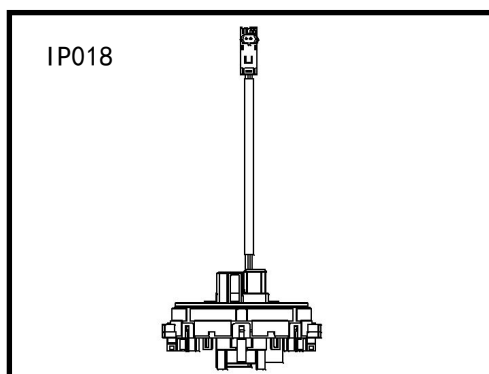
5) Poke the three bayonets embedded in combination switch of the clock spring

Caution:

■ Be sure 3 bayonets completely loose, and then take off timer-spring, which needs to be careful because it is easily to get damaged.



6) Take out the timer-spring of safety airbag.



2) Installation

Installing shall accord with the reversed order of removal.

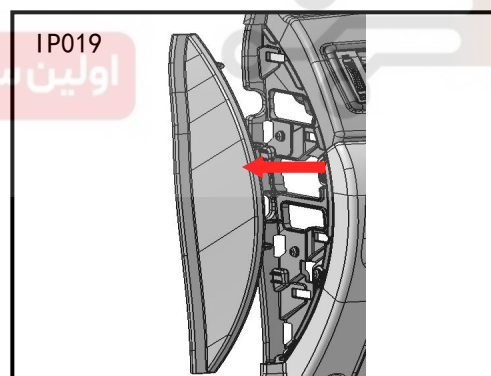
Caution:

- Take out the safety airbag timer-spring from the package and check if it is in intact state and the dowel pin inserted on the part.
- Open the connector cover, and insert the wiring connector of safety airbag into the connector hole, then close the cover.
- Prior to the installation of safety airbag timer-spring, be sure that the front wheel is located in the center (orientation).
- Prior to the installation of safety airbag timer-spring, be sure that the timer-spring is located in center (twist clockwise to the end, then turn back anticlockwise, for 2.5 cycles)

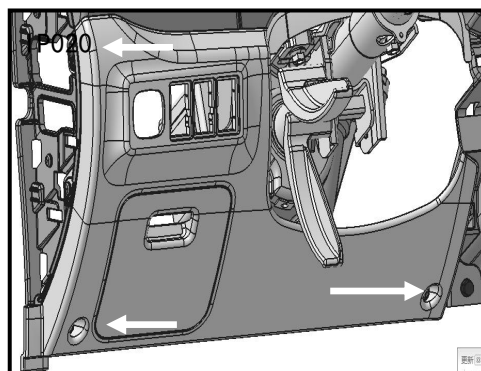
Driver side instrument panel lower protect panel replacement

1. Removal

- 1) Remove dashboard left end cover.



- 2) Remove 4 screws on the driver side lower cover



3) Remove driver side lower guard board assembly.



4) Disconnect various plug-in connectors on the driver side lower guard board .

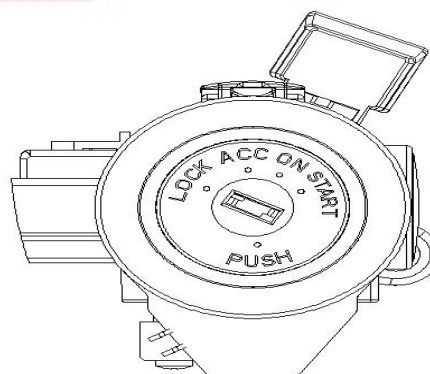
2. Installation

Installation is in the reversed order of removal.

Ignition switch replacement

1. Brief principle

As shown in the figure, the combined steering wheel lock/ignition switch has the following 4 key positions (LOCK---ACC---ON---START) as well as reminder switch and night illumination features:



1) “LOCK” (lock)

Ignition switch is turned OFF and steering wheel is locked. In this position, you can insert or take out your car key. When the key is turned back to “LOCK” position, the engine will stop running. When the key is pulled out of ignition switch, the steering wheel lock will be activated to lock the steering wheel.

2) “ACC” (accessory)

Steering system is unlocked; electrical accessory circuits are switched on; small electrical appliances such as interior lights are operable; but both ignition switch and main electrical circuits are deenergized. The ignition switch key should not overstay in this position so as to avoid battery exhaust.

3) “ON” (turn on)

Ignition circuit is turned ON and all electrical circuits can work. Alarming lights and indicator lights should come on. This is the normal position of the key during driving.

4) “START” (start)

Turn starting motor on to start engine. When the lockhole is in this position, both headlights and electrical equipment of large power consumption are cut off. After start, let go of the key and it will rebound to “ON” position automatically.

Caution:

■ After the engine is started, be sure to release the key immediately. Do not let the key overstay in “START” position.

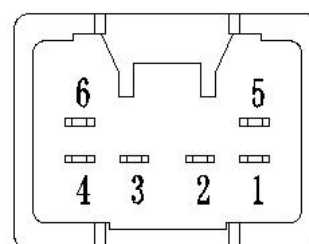
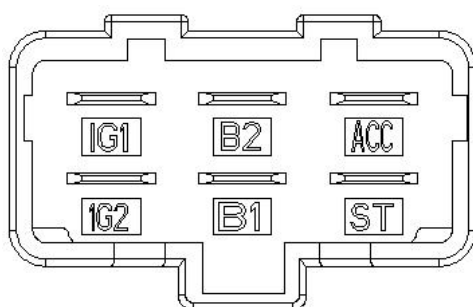
5) Reminder switch

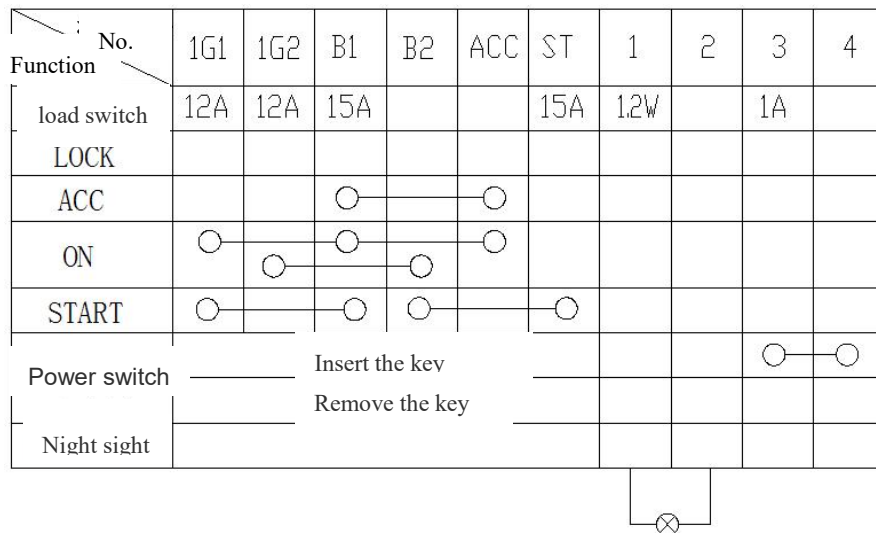
This light will come on as soon as the key is inserted. After your vehicle is stopped, it will remind you to pull out the key.

6) Night light

The night light is installed around the ignition key hole. If either front door is opened, this light will light up to assist the driver to insert the ignition key into the key hole.

2. Electrical system schematic and connectors information:

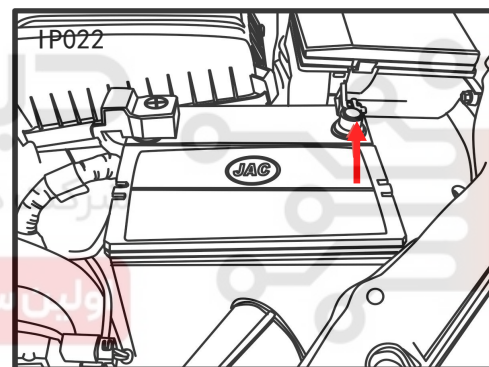




Schematic Diagram of Ignition Switch

3. Removal

1) Disconnect the battery negative.



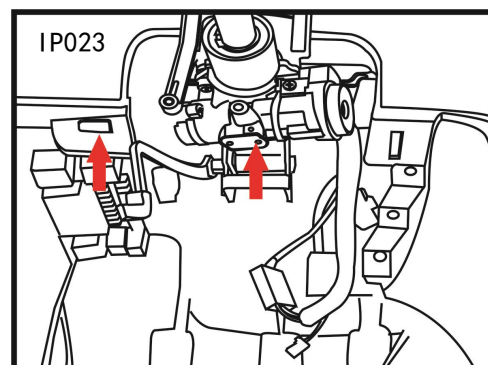
2) Remove the driver-side safety airbag module

3) Remove steering wheel

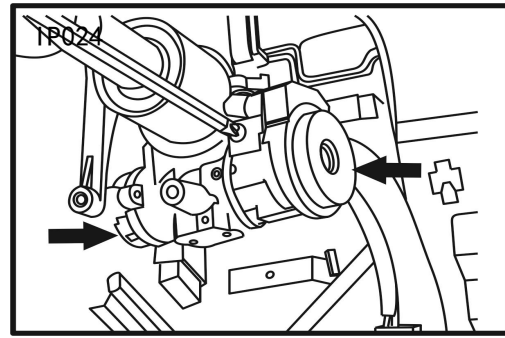
4) Remove upper and lower decoration cover

5) Remove the safety airbag timer spring

6) Remove connector from ignition switch assembly



7) Remove assembly bolts from ignition switch assembly and key alarm switch assembly.



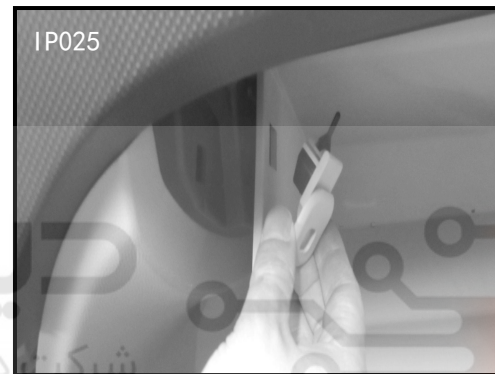
4. Installation.

Installation is in the reversed order of removal. When installing, ensure correct and secure wiring.

Glove box replacement

1. Removal

1) Remove the glove box buckling part.



2) Pull out glove box from opening of

instrument panel.

2. Installation.

Installation is in the reversed order of removal.



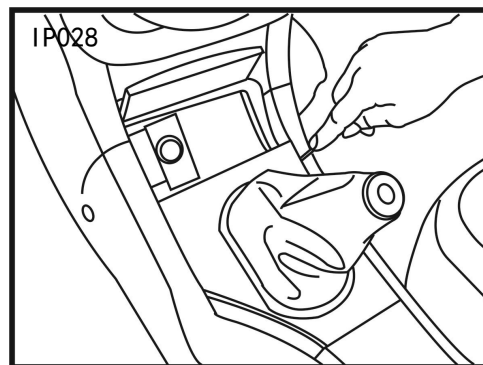
Sub dashboard replacement

1. Removal

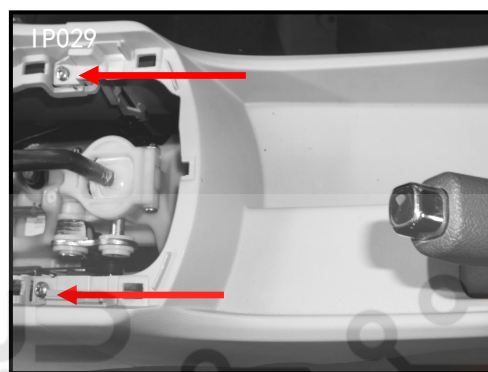
1) Remove joystick cover.



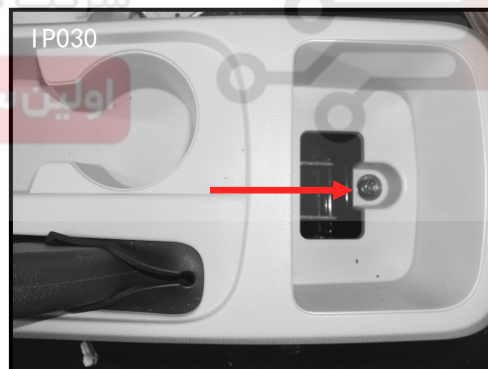
2) Remove joystick jacket.



3) Remove 2 fixing bolts in the front of sub dashboard.



5) Remove a bolt securing instrument panel and body.



2. Installation.

Installing shall accord with the reversed order of removal.

Steering Column replacement

1. Diagram of Steering Column Assembly:

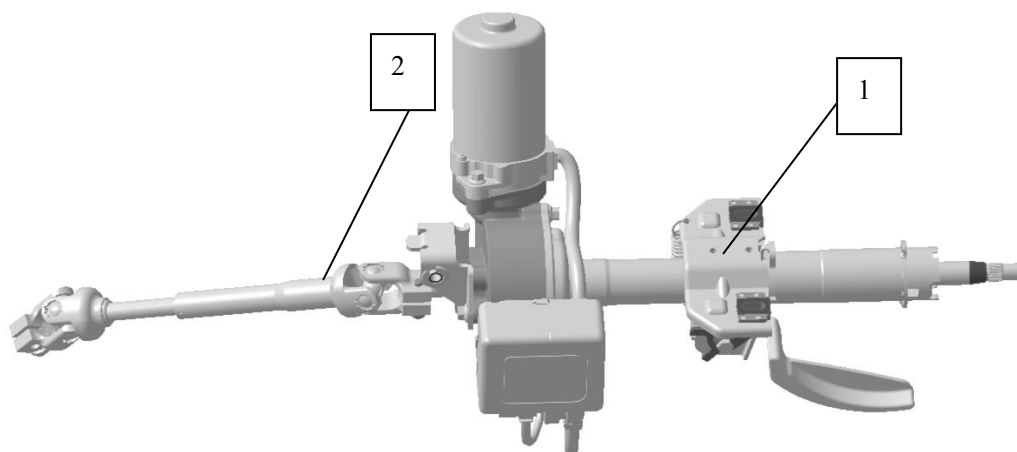


Diagram of Steering Column Assembly

1 - steering column assembly 2 - Intermediate Shaft Assembly

Caution:

■ Never apply excessive axial force to the steering column assembly during the removal and installation.

■ Never move the steering gear when removing the steering column.

2. Removal

1) Straightly park the vehicle.

2) Disconnect the cathode terminal of battery and wait for more than 3min.

3) Remove the driver-side safety airbag module

4) Remove steering wheel

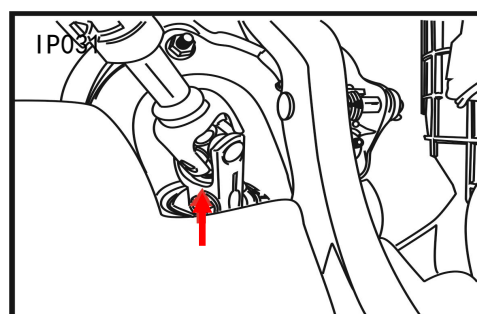
5) Remove the upper and lower guards of steering column and the lower portion of driver instrument panel.

6) Remove the combined switch assembly and clock spring from the steering column.

7) Disconnect every harness connector from the steering column and remove the harness from the steering column assembly.

8) Remove bolts connecting steering column and lower shaft separate the steering column and steering gear.

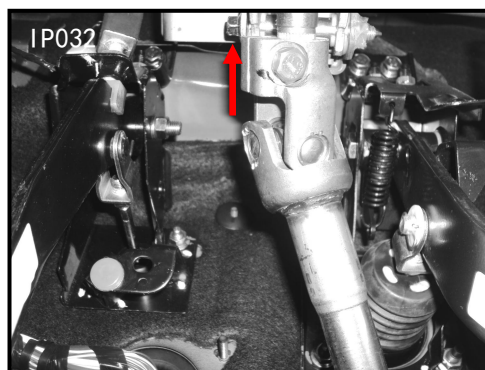
■ Tightening torque: 30~35 N.m



IP-14

9) Remove the fixing nuts of steering column assembly, lower the steering column, and remove the steering column assembly.

- Tightening torque: 20~30N·m



3. Inspection after disassembly

1) Check the steering column for crack, deformation and other damage and replace in event of any above defect.

2) Check the spline of steering column shaft for wear and tooth breakage and replace in event of any above defect.

4. Disassembly

1) Disassembly

- ① Loosen the connecting bolts between steering column and connecting shaft

universal joint and remove the universal joint.

- ② When necessary, remove the steering lock.

Caution:

- When reinstalling the steering lock, make sure to replace the special bolts.

- ③ When necessary, remove the adjustable steering column and support.

2) Disassembly key points

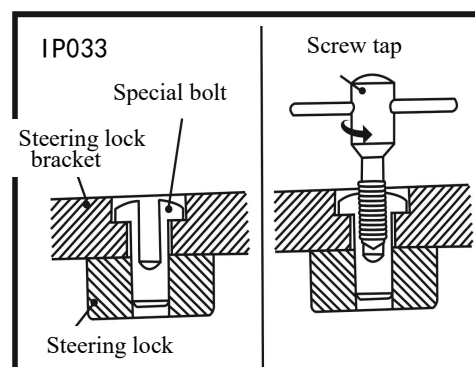
Removal of special bolts:

① Drill with the electric drill on the special bolts one hole

enough to accommodate the screw tap.

② Remove the special bolts with the left-handed screw tap.

3) Inspection after disassembly



- ① Check the adjusting support and spring for crack and damage.
- ② Check the steering lock mechanism for normal functioning.

4) Assembly

Assemble the steering lock assembly, steering lock support and the special bolts.

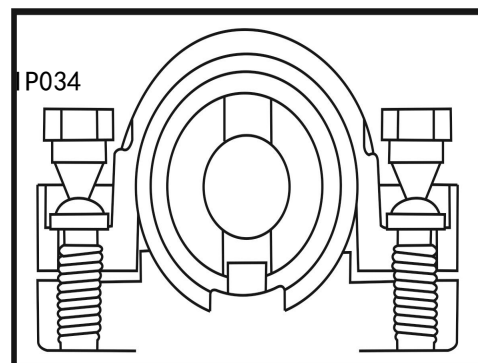
Caution:

- When install the steering lock assembly and steering lock support onto the steering column assembly, align them to the locking

gap in the steering column to lock the steering lock temporarily.

- After confirming the correct action of the steering lock, lock the special bolts, till the bolt heads are broken.

lock the special bolts, till the bolt heads are broken.



5. Installation.

Installation is in the reversed order removal.

Caution:

- Never re-use the components not intended for re-use.
- Install the steering column assembly when maintaining the steering wheel at neutral position.
- When installing the connecting shaft onto the steering column, pay attention to the installing location.

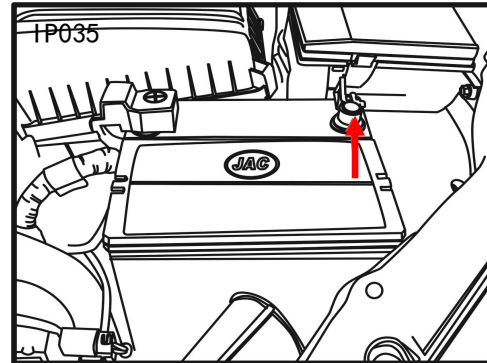
6. Inspection after installation:

Under the condition that the vehicle is straightly parked, rotate the steering wheel leftward and rightward to limit point for several times to confirm the smooth operation of the steering wheel.

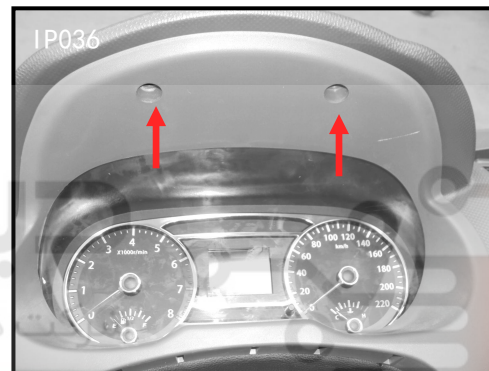
Combination instrument replacement

1. Removal

1) Remove negative (-) of battery.



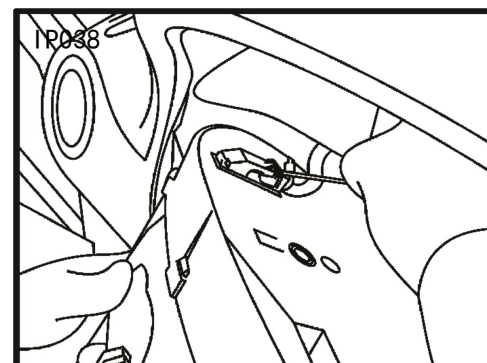
2) Remove the combination instrument panel decoration board



3) Remove screws securing combination instrument.



4) Unplug connectors of combination instrument remove instrument assembly.



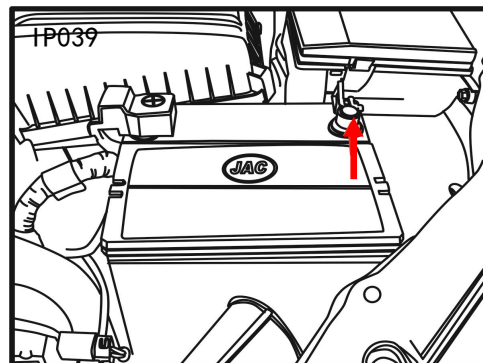
2. Installation

Installation is in the reversed order of removal.

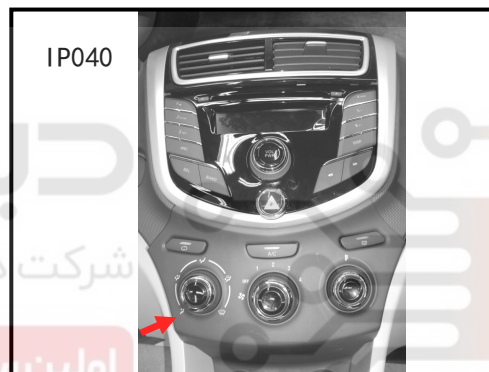
A/C control panel replacement

1. Removal:

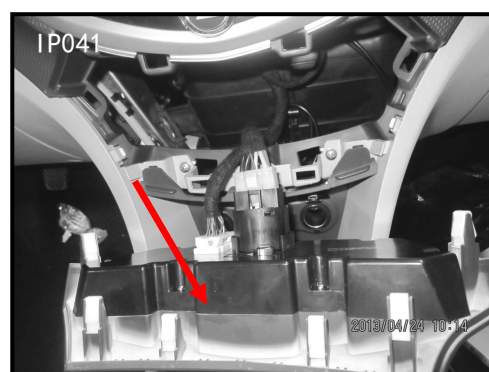
1) Disconnect the battery negative.



2) Remove A/C central control panel group shroud.



3) Pull out the air conditioning control panel outwards and disconnect related connectors, and take off the AC control panel.



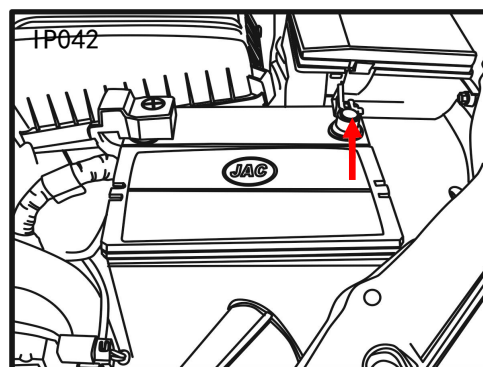
2. Installation.

Installation is the reversed order of removal.

Dashboard replacement

1. Removal

1) Disconnect the battery negative.



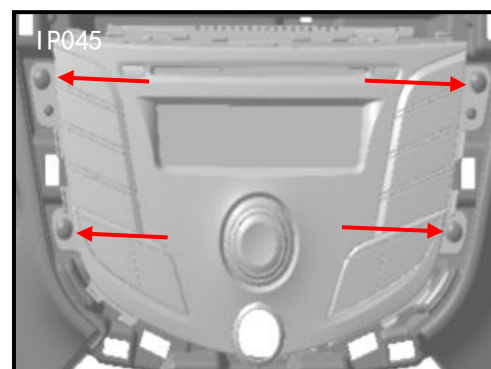
2) Remove A/C control panel assembly.



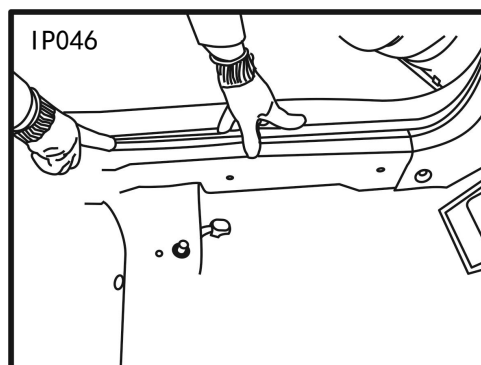
3) Remove central A/C air outlet assembly.



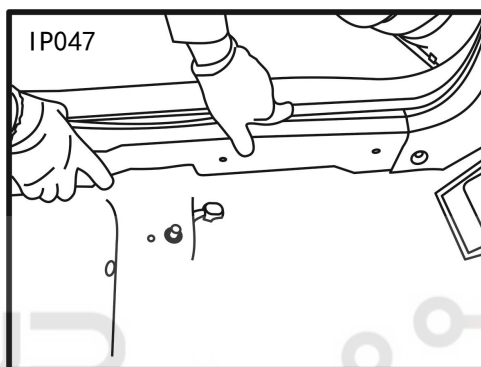
4) Remove audio deck.



5) Remove left and right moldings of front door.

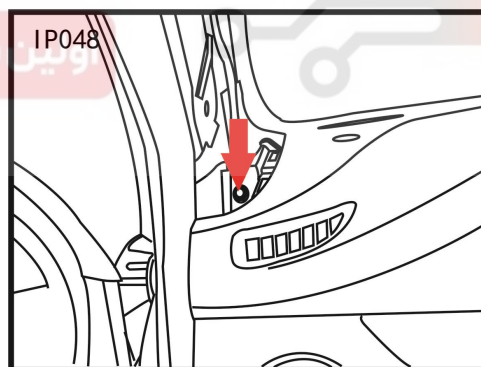


6) Remove left and right threshold trim plate of front door.



7) Remove upper and lower garnishes plate at left and right of A-pillar.

8) Remove left and right fixing bolts from upper part of dashboard.

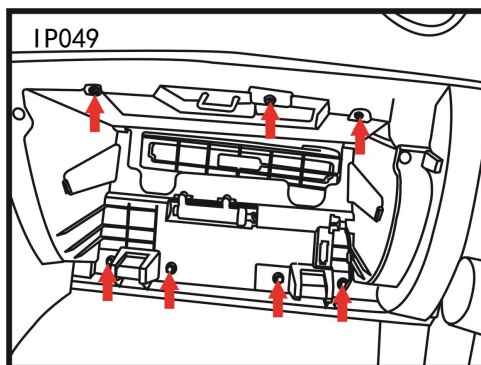


9) Remove driver side instrument panel.

10) Remove engine hood handle.

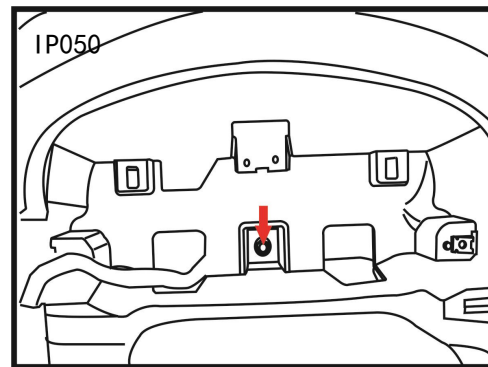
11) Remove passenger side glove box.

12) Remove bolts and screws securing fixing bracket of glove box, and dismantle the bracket fixing the glove box.

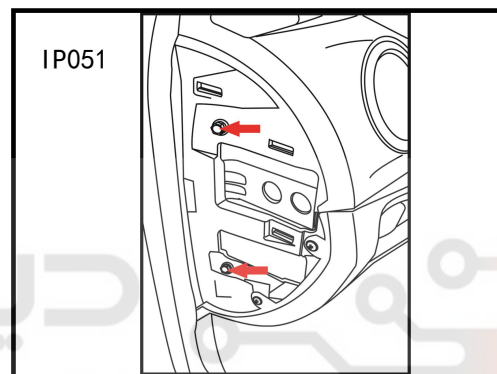


13) Remove steering wheel assembly.

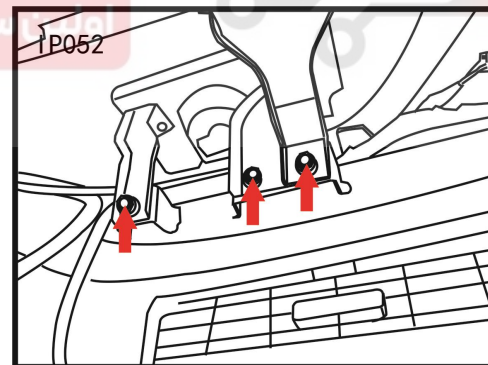
- 14) Remove combination switch.
- 15) Remove instrument assembly.
- 16) Remove fixing nut of locating hole on instrument behind the dashboard.



- 17) Remove left and right fixing nuts of dashboard.



- 18) Remove bolts securing passenger side air bag, dashboard and its bracket.



- 19) With a helper's aid, lift off the dashboard.

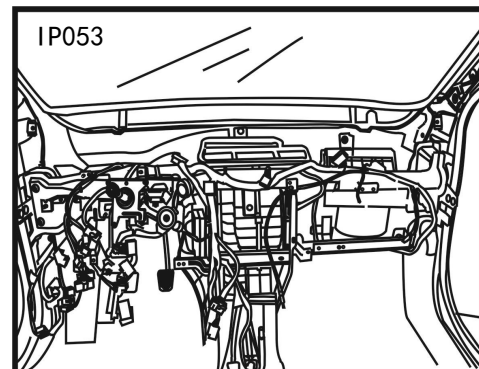
2. Installation.

Installation is in the reversed order of removal.

Instrument Panel Support Replacement

1. Removal

- 1) Disconnect all electrical equipment connected with instrument panel support.
- 2) Disconnect instrument panel harness.



- 3) Remove fixing bolt from left side of instrument panel support.
- 4) Remove fixing bolt from right side of instrument panel support.
- 5) With a helper's aid, lift off instrument panel support.

2. Installation.

Installation is in the reversed order of removal.

دیجیتال خودرو

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

