EXTERIOR/INTERIOR TRIM

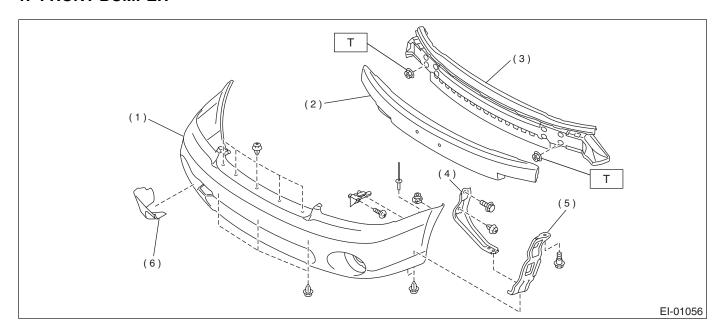


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1. General Description

A: COMPONENT

1. FRONT BUMPER

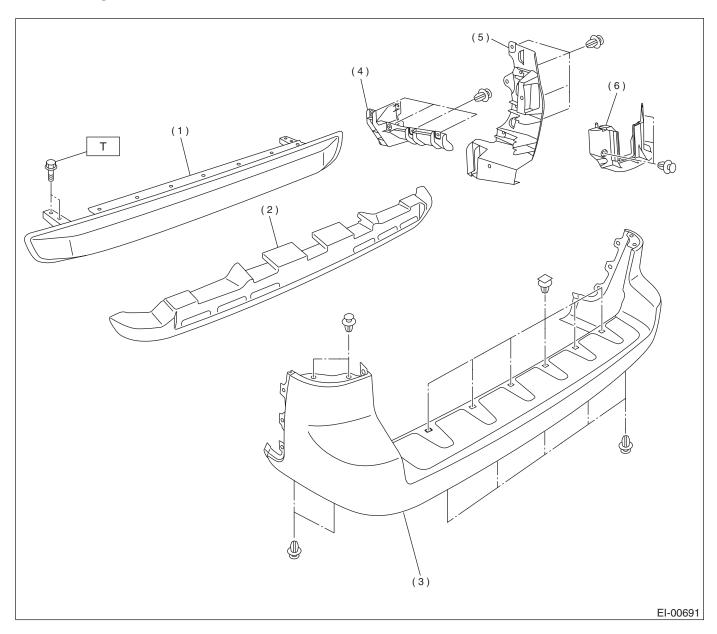


- (1) Bumper face
- (2) Bumper energy absorber
- (3) Bumper beam
- (4) Side stay

- (5) Side bracket
- (6) Cover (Tie down hook)

Tightening torque: N⋅m (kgf-m, ft-lb) T: 33 (3.4, 25)

2. REAR BUMPER



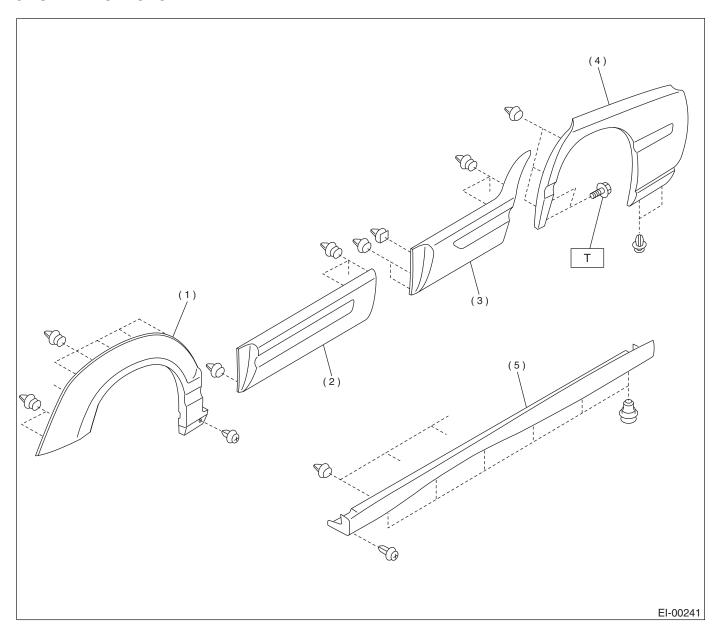
- (1) Bumper beam
- (2) Bumper energy absorber
- (3) Bumper face

- (4) Side lower cover
- (5) Side bracket
- (6) Lower cover

Tightening torque: N·m (kgf-m, ft-lb)

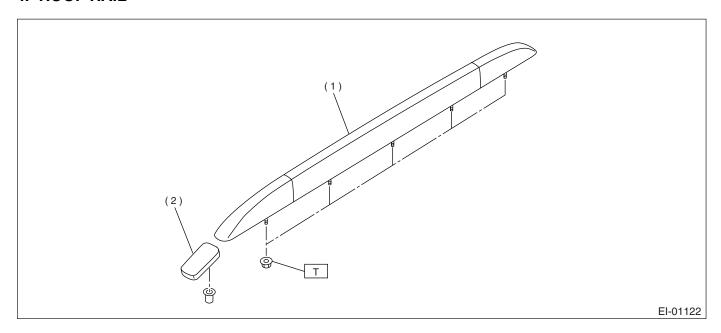
T: 95 (9.7, 70)

3. SIDE PROTECTOR



- (1) Side garnish (Front fender)
- (2) Side garnish (Front door)
- (3) Side garnish (Rear door)
- (4) Side garnish (Rear quarter)
- (5) Side garnish (Side sill)

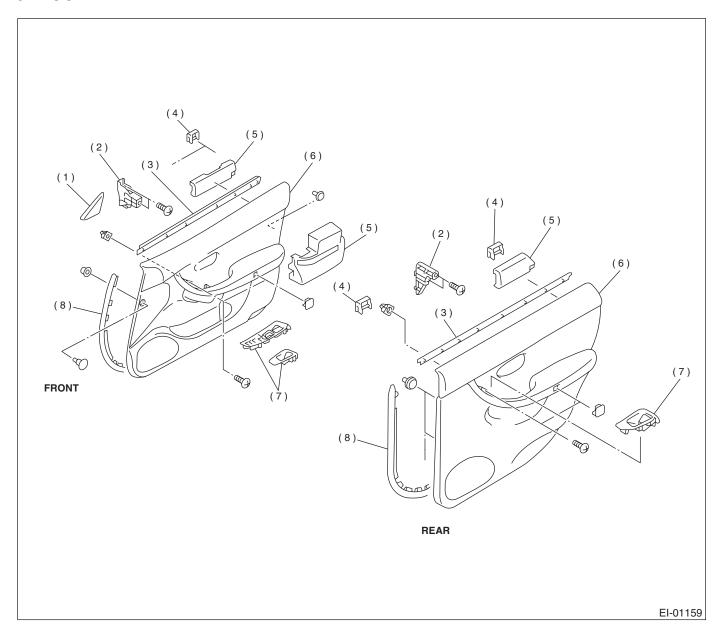
4. ROOF RAIL



- (1) Roof rail
- (2) Roof molding

Tightening torque: N·m (kgf-m, ft-lb)
T: 7.5 (0.76, 5.53)

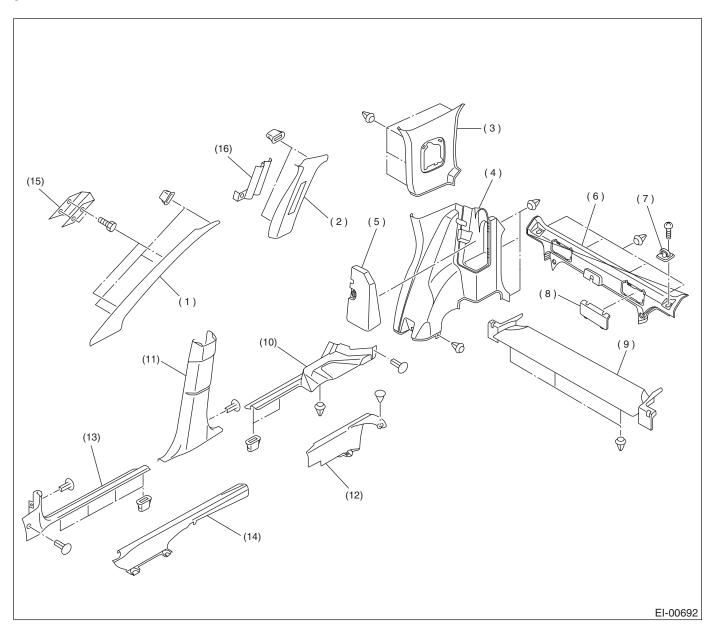
5. DOOR TRIM



- (1) Gusset cover
- (2) Bracket
- (3) Weatherstrip upper
- (4) Clip
- (5) Pad
- (6) Trim panel

- (7) Power window switch cover
- (8) Weatherstrip lower

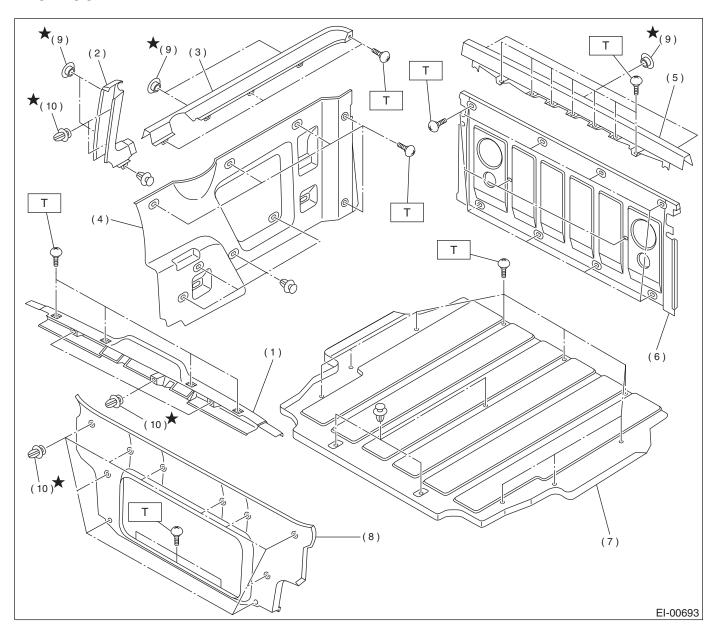
6. INNER TRIM



- (1) Front pillar upper trim
- (2) Center pillar upper trim
- (3) Rear pillar upper trim
- (4) Rear pillar lower trim
- (5) Lid
- (6) Rear bulk head trim

- (7) Hook
- (8) Cover
- (9) Floor trim panel
- (10) Side sill rear upper cover
- (11) Center pillar lower trim
- (12) Side sill rear lower cover
- (13) Front pillar lower trim
- (14) Side sill front lower cover
- (15) Pad stopper A pillar
- (16) Pad B pillar upper

7. CARGO BED TRIM

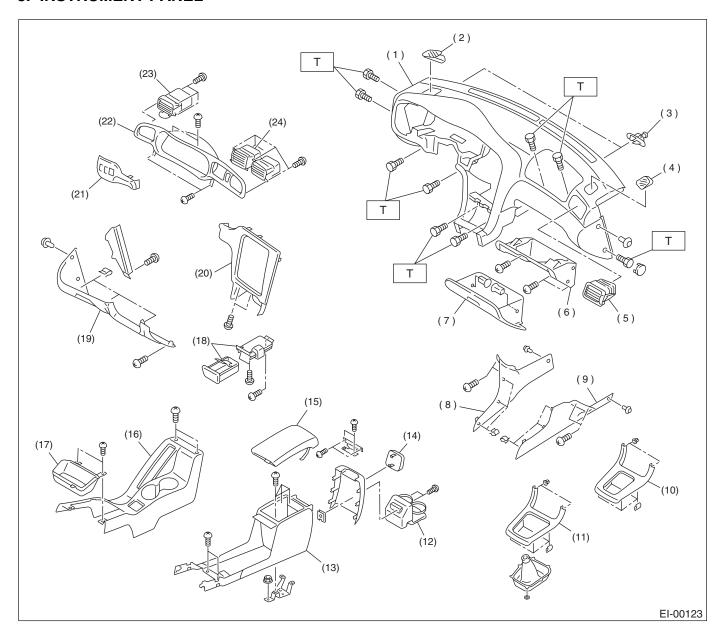


- (1) Cargo bed upper molding
- (2) Cargo bed C pillar molding
- (3) Cargo bed side molding
- (4) Cargo bed side tray
- (5) Tail gate molding

- (6) Tail gate tray
- (7) Cargo bed floor tray
- (8) Back panel tray
- (9) Clip
- (10) Clip

Tightening torque: N·m (kgf-m, ft-lb)
T: 7.5 (0.76, 5.53)

8. INSTRUMENT PANEL



- (1) Pad & frame
- (2) Grille side (D)
- (3) Hook
- (4) Grille side (P)
- (5) Grille vent (P)
- (6) Glove box panel
- (7) Glove box lid
- (8) Center panel side (D)
- (9) Center panel side (P)
- (10) Front cover (AT)

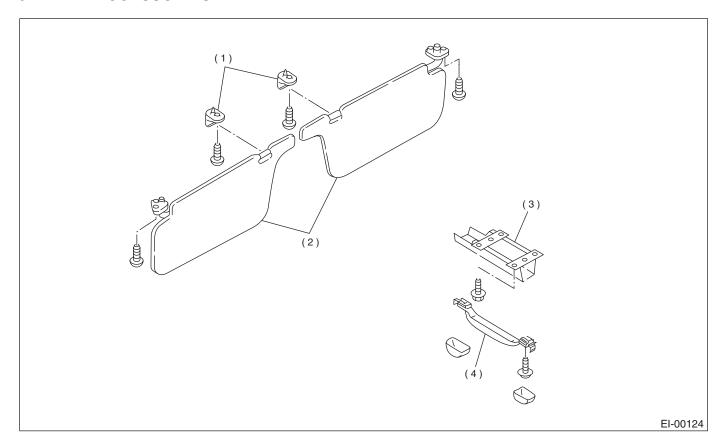
- (11) Front cover (MT)
- (12) Rear cup holder
- (13) Console box
- (14) Cap
- (15) Console lid
- (16) Console cover
- (17) Tray
- (18) Ash tray
- (19) Lower cover
- (20) Center panel

- (21) Switch panel
- (22) Meter visor
- (23) Grille vent (D)
- (24) Grille center

Tightening torque: N⋅m (kgf-m, ft-lb)

T: 7 (0.7, 5.1)

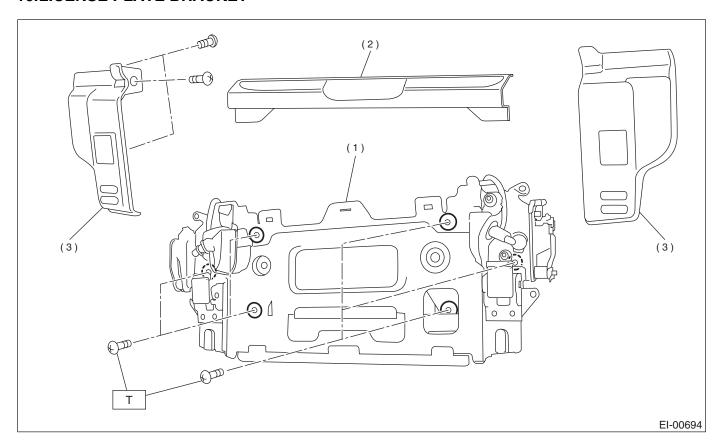
9. INNER ACCESSORIES



- (1) Hook
- (2) Sun visor

- (3) Pad side rail
- (4) Assist grip

10.LICENSE PLATE BRACKET

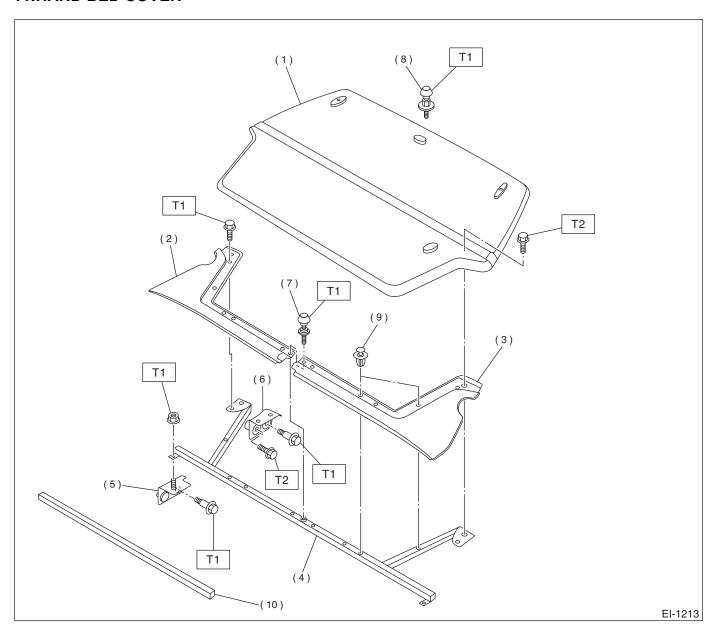


- (1) License plate bracket
- (2) Upper cover

(3) Side cover

Tightening torque: N·m (kgf-m, ft-lb)
T: 7.5 (0.76, 5.53)

11.HARD BED COVER



- (1) Hard bed cover
- (2) Front cover RH
- (3) Front cover LH
- (4) Crossbar
- (5) Front bracket

- (6) Rear bracket
- (7) Front striker
- (8) Rear striker
- (9) Clip
- (10) Seal

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 7.5 (0.76, 5.53)

T2: 70 (7.1, 52)

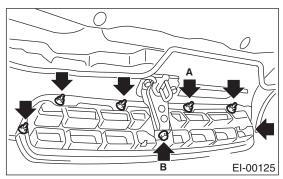
B: PREPARATION TOOL

| TOOL NAME | REMARKS |
|------------------|---|
| Clip remover | Used for removal of trim. |
| Adhesive remover | Used for removal of side protector. |
| Primer | Used for installation of side protector. |
| Infrared lamp | Used for disassembly/assembly of side protector. |
| Tow-sided tape | Used for installation of side protector. |
| TORX® T30 | Used for disassembly/assembly of crossbar, removal/installation of cargo bed. |
| TORX® T25 | Used for removal/installation of cargo bed. |

2. Front Grille

A: REMOVAL

- 1) Open hood.
- 2) Remove bolts and nuts to remove front grill.



B: INSTALLATION

Install in the reverse order of removal.

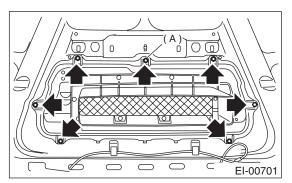
Tightening torque:

A: 4.4 ± 1.5 N·m $(0.4\pm0.1$ kgf-m, 3.2 ± 1.0 ft-lb) B: 7.0 ± 2.0 N·m $(0.7\pm0.2$ kgf-m, 5.1 ± 1.4 ft-lb)

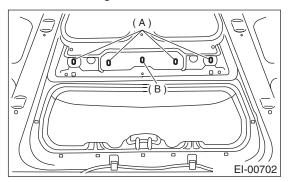
3. Hood Grille

A: REMOVAL

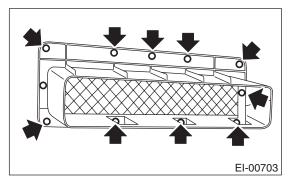
- 1) Remove hood insulator.
- 2) Remove six bolts and clip (A) to remove hood duct.



3) Loosen the nut (B), remove four clips (A), and then remove hood grille.



4) Remove eleven clips to remove air duct.

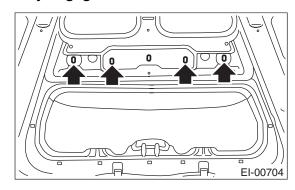


B: INSTALLATION

1) Engage four clips of hood grille to front hood panel.

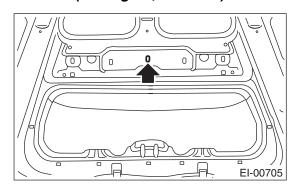
CAUTION:

Make sure that the anchor portion of each clip is firmly engaged.

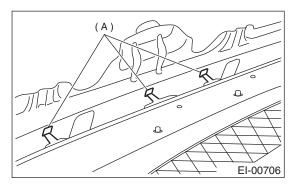


2) Install a nut.

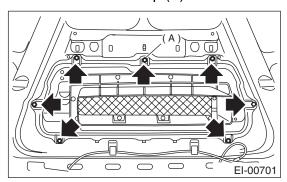
Tightening torque: 4.5 N·m (0.46 kgf-m, 3.32 ft-lb)



3) Catch three hooks (A) of hood duct to hood holes.



4) Install hood duct with clip (A) and six bolts.



5) Install the hood insulator with new clips.

C: INSPECTION

Make sure that clips are firmly engaged.

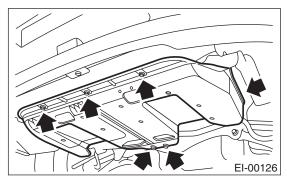
Make sure that there is no abnormal gap at whole periphery of hood grille.

Make sure that there is no damage on hood grille.

4. Front Under Cover

A: REMOVAL

- 1) Lift-up the vehicle.
- 2) Remove bolts and clips to remove under cover.



B: INSTALLATION

Install in the reverse order of removal.

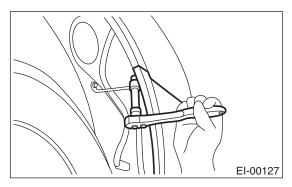
Tightening torque: 18 N⋅m (1.84 kgf-m, 13.3 ft-lb)

5. Front Bumper

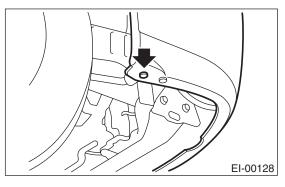
A: REMOVAL

CAUTION:

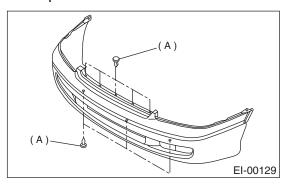
- Handle bumper carefully to avoid damage to bumper face.
- Do not damage body during removal or installation of bumper.
- To avoid damage to bumper, lay removed bumper on sheet spread on the floor. Do not lay it directly on the floor.
- 1) Open hood.
- 2) Disconnect ground cable from battery.
- 3) Pull off front side of front mat guard to remove bolts.



4) Remove clip at bottom of bumper.



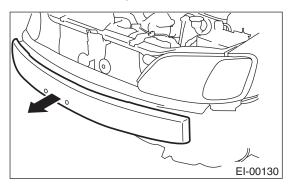
- 5) Remove clip (A), and pull out bumper slightly.
- 6) Disconnect harness connector of fog light to remove bumper.



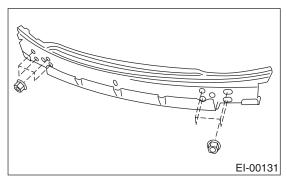
7) Remove Bumper energy absorber form from bumper beam.

CAUTION:

E/A FOAM is easy to brak. Do not apply excessive force to it during removal.



8) Remove bumper beam.



B: INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Handle bumper carefully to avoid damage to bumper face.
- Do not damage body during removal or installation of bumper.

Tightening torque:

Refer to COMPONENT in General Description. <Ref. to El-2, FRONT BUMPER, COMPONENT, General Description.>

C: REPAIR

1. COATING METHOD FOR PP BUMPER

| Pro- cess No. | Process name | Job contents | |
|---------------------|---------------------------|---|---|
| 1 | Bumper mounting | Set bumper (A) on paint worktable if required. Use paint worktable conforming to inner shape of bumper when possible (B). | (A) (B) EI-00132 |
| 2 | Masking | Mask specified part (black base) with masking ta No. 533, etc.). | pe. Use masking tape for PP (example, Nichiban |
| 3 | Degreasing, clean- ing | Clean all parts to be painted with white gasoline, | , normal alcohol, etc. to remove dirt, oil, fat, etc. |
| 4 | Primer paint | Apply primer one to all parts to be painted, using | g air gun. Use primer (clear). |
| 5 | Drying | Dry at normal temperature [10 to 15 min. at 20°C (68°F)]. In half-dried condition, PP primer paint is dissolved by solvent, e.g. thinner, etc. Therefore, if dust or dirt must be removed, use ordinary alcohol, etc. | |
| 6 | Top coat paint (I) | Solid color Use section (block) paint for top coat. • Paint in use (for each color): Solid paint Hardener PB Thinner T-301 • Mixing ratio: Main agent vs. hardener = 4:1 • Viscosity: 10 — 13 sec/20°C (68°F) • Film thickness: 35 — 45µ • Spraying pressure: 245 — 343 kPa (2.5 — 3.5 kg/cm², 36 — 50 psi) | Metallic color Use section (block) paint for top coat. • Paint in use (for each color): Metallic paint Hardener PB Thinner T-306 • Mixing ratio: Main agent vs. hardener = 10 : 1 • Viscosity: 10 — 13 sec/20°C (68°F) • Film thickness: 15 — 20μ • Spraying pressure: 245 — 343 kPa (2.5 — 3.5 kg/cm², 36 — 50 psi) |
| 7 | Drying | Not required. | Dry at normal temperature [10 min. or more at 20°C (68°F)]. In half-dried condition, avoid dust, dirt. |
| 8 | Top coat paint (II) | Not required. | Apply a clear coat to parts with top coat paint (I), three times, at 5 — 7 minutes intervals. • Paint in use: Metallic paint Hardener PB Thinner T-301 • Mixing ratio: Clear vs. hardener = 6:1 • Viscosity: 14 — 16 sec/20°C (68°F) • Film thickness: 25 — 30μ • Spraying pressure: 245 — 343 kPa (2.5 — 3.5 kg/cm², 36 — 50 psi) |
| 9 | Drying | 60°C (140°F), 60 min. or 80°C (176°F), 30 min. If higher than 80°C (176°F), PP may be deformed. Keep maximum temperature of 80°C (176°F). | |
| 10 | Inspection | Paint check. | |
| 11 | Masking removal | Remove masking in process No. 2. | |

2. REPAIR INSTRUCTIONS FOR COLORED PP BUMPER

NOTE

All PP bumpers are provided with a grained surface, and if the surface is damaged, it cannot normally be restored to its former condition. Damage limited to shallow scratches that cause only a change in the lustre of the base material or coating, can be almost fully restored. Before repairing a damaged area, explain this point to the customer and get an understanding about the matter. Repair methods are outlined below, based on a classification of the extent of damage.

• Minor damage causing only a change in the lustre of the bumper due to a light touch

Almost restorable.

| Process No. | Process name | Job contents | |
|----------------|--------------|---|---|
| 1 | Cleaning | Clean the area to be repaired using water. | |
| 2 | Sanding | Grind the repairing area with #500 sand paper in a "feathering" motion. | |
| | | Resin section | Coated section |
| 3 | Finish | Repeatedly apply wax to the affected area using a soft cloth (such as flannel). Recommended wax: NITTO KASEI Soft 99 TIRE WAX BLACK, or equivalent. | Perform either the same operation as for the resin section or process No. 18 and subsequent operations in the "(3)" section, depending on |
| | | Polish the waxed area with a clean cloth after 5 to 10 minutes. | the degree and nature of damage. |

• Deep damage caused by scratching fences, etc.

A dent cannot be repaired but a whitened or swelled part can be removed.

| Process No. | Process name | Job contents | |
|----------------|-------------------------|---|--|
| 1 | Cleaning | Clean damaged area with water. | |
| 2 | Removal of damaged area | Cut off protruding area, if any, due to collision, using a putty knife. | |
| 3 | Sanding | Grind the affected area with #100 to #500 sand paper. | |
| | | Resin section | Coated section |
| 4 | Finish | Same as Process No. 3 in the "(1)" section. | Perform Process No. 12 and subsequent operations in the "(3)" section. |

• Deep damage such as a break or hole that requires filling

Much of the peripheral grained surface must be sacrificed for repair, and the degree of restoration is not really worth the expense. (The surface, however, will become almost flush with adjacent areas.)

Recommended repair kit: PP Part Repair Kit (NRM)

| Process No. | Process name | Job contents | |
|----------------|--------------------------|--|--|
| 1 | Bumper removal | Remove bumper as required. | |
| 2 | Part removal | Remove parts built into bumper as required. | |
| 3 | Bumper place- ment | Place bumper (A) on a paint worktable as required. It is recommended that contour of worktable accommodate internal shape of bumper (B). | (A) (B) El-00132 |
| 4 | Surface prepara- tion | Remove dust, oil, etc. from areas to be repaired and surrounding areas, using a suitable solvent (NRM No. 900 Precleno, white gasoline, or alcohol). | |
| 5 | Cutting | If nature of damage are cracks or holes, cut a guide slit of 20 to 30 mm (0.79 to 1.18 in) in length along the crack or hole up to the bumper's base surface. Then, bevel or "veeout" the affected area using a knife or grinder. | Unit: mm (in) 20 – 30 (0.79 – 1.18) (1) 3 (0.12) EI-00134 (1) Paint surface (2) PP base surface |
| 6 | Sanding (I) | Grind beveled surface with sand paper (#40 to # | 60) to smooth finish. |
| 7 | Cleaning | | |
| 8 | Temporary welding | Clean the sanded surface with the same solvent as used in Process No. 4. Grind the side just opposite the beveled area with sand paper (#40 to #60) and clean using a solvent. Temporarily spot-weld the side, using a PP welding rod and heater gun. (1) El-00135 (1) Welded spot (Use heater gun and PP welding rod) (2) PP base surface (3) Beveled section NOTE: • Do not melt welding rod until it flows out. This results in reduced strength. • Leave the welded spot unattended until it cools completely. | |

| Process No. | Process name | Job contents | |
|---|-------------------------|---|--|
| | | Using a heater gun and PP welding rod, weld the beveled spot while melting the rod and damaged area. | |
| 9 | Welding | (1) Melt hatched area (2) Welding rod | |
| | | (3) Section NOTE: Melt the sections indicated by hatched area. Do not melt welding rod until it flows out, in order to provide strength. Always keep the heater gun 1 to 2 cm (0.4 to 0.8 in) away from the welding spot. Leave the welded spot unattended until it cools completely. Remove excess part of weld with a putty knife. If a drill or disc wheel is used instead of the knife, | |
| | | operate it at a rate lower than 1,500 rpm and grind the excess part little by little. A higher rpm will cause the PP substrate to melt from the heat. | |
| 10 | Sanding (II) | | |
| | | EI-00042 | |
| Sand the welded spot smooth with #240 sand paper. Mask the black substrate section using masking tape. | | Sand the welded spot smooth with #240 sand paper. Mask the black substrate section using masking tape. | |
| 11 | Masking | Recommended masking tape: Nichiban No. 533 or equivalent | |
| 12 | Cleaning/ degreasing | Completely clean the entire coated area, using solvent similar to that used in Process No. 4. | |
| 13 | Primer coating | Apply a coat of primer to the repaired surface and its surrounding areas. Mask these areas, if necessary. Recommended primer: Mp/ 364 PP Primer NOTE: Be sure to apply one coat of primer at a spraying pressure of 245 to 343 kPa (2.5 to 3.5 kg/cm², 36 to 50 psi) with a spray gun. | |
| 14 | Leave unat- tended. | Leave the repaired area unattended at 20°C (68°F) for 10 to 15 minutes until primer is half-dry. NOTE: If dirt or dust comes in contact with the coated area, wipe it off with a cloth dampended with alcohol. (Do not use thinner since the coated area tends to melt.) | |
| 15 | Primer surfacer coating | Apply a coat of primer surfacer to the repaired area two or three times at an interval of 3 to 5 minutes. Recommended surfacer: • UPS 300 Flex Primer • No. 303 UPS 300 Exclusive hardener • NPS 725 Exclusive Reducer (thinner) • Mixing ratio: 2 : 1 (UPS 300: No. 303) • Viscosity: 12 — 14 sec/20°C (68°F) • Coated film thickness: 40 — 50μ | |
| 16 | Drying | Allow the coated surface to dry for 60 minutes at 20°C (68°F) [or 30 minutes at 60°C (140°F)]. | |
| 17 | Sanding (III) | Sand the coated surface and its surrounding areas using #400 sand paper and water. | |

EXTERIOR/INTERIOR TRIM

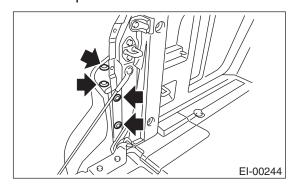
| Process No. | Process name | Job contents | |
|----------------|--------------------------|--|---|
| 18 | Cleaning/ degreasing | Same as Process No. 12. | |
| | | Solid color | Metallic color |
| | | Use a "block" coating method. | Use a "block" coating method. |
| | | Recommended paint: | Recommended paint: |
| | | Suncryl (SC) | Suncryl (SC) |
| | | No. 307 Flex Hardener | No. 307 Flex Hardener |
| 19 | Top coat (I) | SC Reducer (thinner) | SC Reducer (thinner) |
| '3 | Τορ τοαι (ι) | Mixing ratio: 3 : 1 | Mixing ratio: 3 : 1 |
| | | Suncryl (SC) vs. No. 307 Flex Hardener | Suncryl (SC) vs. No. 307 Flex Hardener |
| | | • Viscosity: 11 — 13 sec/20°C (68°F) | • Viscosity: 11 — 13 sec/20°C (68°F) |
| | | • Coated film thickness: 40 — 50μ | Coated film thickness: 20 — 30μ |
| | | Spraying pressure: 245 — 343 kPa | Spraying pressure: 245 — 343 kPa |
| | | (2.5 — 3.5 kg/cm ² , 36 — 50 psi) | (2.5 — 3.5 kg/cm ² , 36 — 50 psi) |
| | Leave unat- | | Leave unattended at 20°C (68°F) for at least 10 |
| | | | minutes until the topcoated area is half-dry. |
| 20 | tended. | Not required. | NOTE: |
| | | | Be careful to keep dust or dirt from coming in |
| | | | contact with the affected area. |
| | Top coat (II) | Not required. | Apply a clear coat three times at an interval of 3 |
| | | | to 5 minutes. |
| | | | Recommended paint: OZ740 Overder Oleren |
| | | | SC710 Overlay Clear No. 307 Flex Hardener |
| | | | SC Reducer (thinner) |
| 21 | | | Mixing ratio: 3 : 1 |
| | | | Suncryl (SC) vs. No. 307 Flex Hardener |
| | | | • Viscosity: 10 — 13 sec/20°C (68°F) |
| | | | • Coated film thickness: 20 — 30µ |
| | | | Spraying pressure: 245 — 343 kPa |
| | | | (2.5 — 3.5 kg/cm ² , 36 — 50 psi) |
| | | Allow the coated surface to dry at 20°C (68°F) for two hours or 60°C (140°F) for 30 minutes. | |
| 22 | Drying | NOTE: | |
| | , 3 | Do not allow the temperature to exceed 80°C (176°F) since this will deform the PP substrate. | |
| 23 | Inspection | Carefully check the condition of the repaired area. | |
| 24 | Masking removal | Remove masking tape applied in Process No. 11 and 13. | |
| 25 | Parts installation | Install parts on bumper in reverse order of removal. | |
| 26 | Bumper installa- tion | Install bumper. | |

6. Rear Bumper

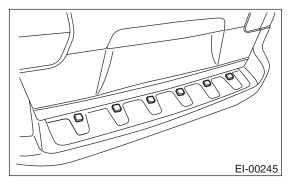
A: REMOVAL

CAUTION:

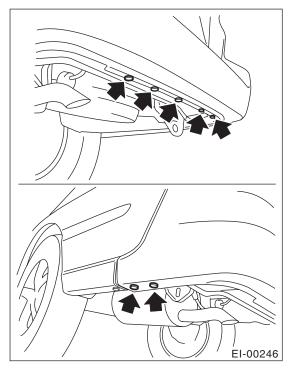
- Handle bumper carefully to avoid damage to bumper face.
- Do not damage body during removal or installation of bumper.
- To avoid damage to bumper, lay removed bumper on sheet spread on the floor. Do not lay it directly on the floor.
- 1) Remove rear combination light. <Ref. to LI-19, REMOVAL, Rear Combination Light Assembly.> 2) Remove clip.



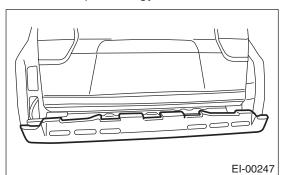
3) Remove clip.



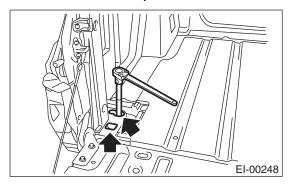
4) Remove clip.



- 5) Remove bumper face.
- 6) Remove Bumper energy absorber.



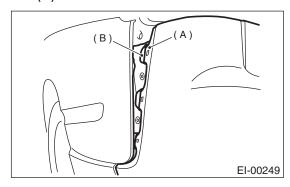
7) Remove bolt and bumper beam.



B: INSTALLATION

CAUTION:

- Handle bumper carefully to avoid damage to bumper face.
- Do not damage body during removal or installation of bumper.
- 1) Install in the reverse order of removal.
- 2) Securely fix bumper edge portion (A) to side bracket (B).



Tightening torque:

Bumper beam; 95 N·m (9.7 kgf-m, 70 ft-lb)

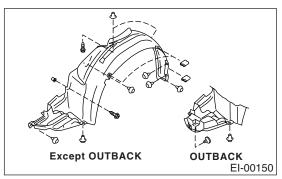
C: REPAIR

Refer to front bumper repair. <Ref. to EI-18, RE-MOVAL, Front Bumper.>

7. Mud Guard

A: REMOVAL

- 1) Jack-up the vehicle.
- 2) Remove screws and clips to remove mud guard.

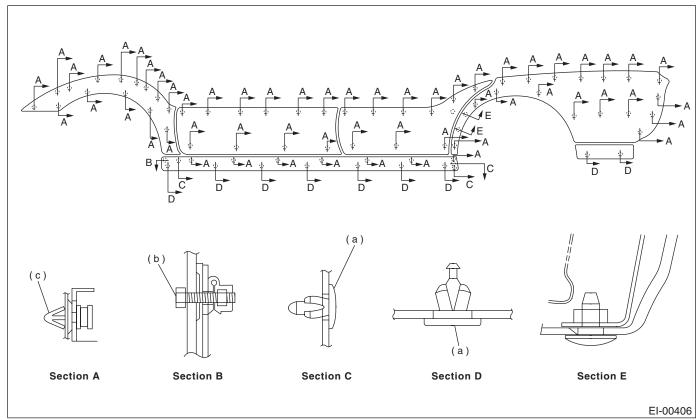


B: INSTALLATION

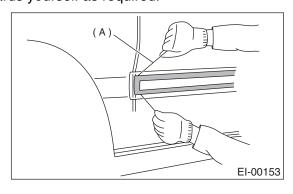
Insert hook into body, and tighten it with screw and clip.

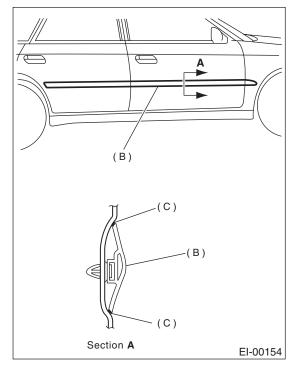
8. Protector

A: REMOVAL



- 1) Attach masking tape to outer perimeter of side protector. (If original side protector is re-installed, tape the entire protector.)
- 2) Insert fishing line [0.8 mm (0.031 in) dia.] (A) between side protector (B) and vehicle body. Cut (pull the line) through two-sided tape (C) along side protector on the body. Using a puller, remove clips from vehicle body while pulling side protector towards yourself as required.





NOTF:

- To increase adhesive remover strength, leave two-sided tape on body and side protector.
- If two-sided tape is too thick, use a putty knife to cut it thin so that adhesive remover is ready for use.
- If two-sided tape is hard to remove, heat to approximately 40°C (104°F).
- 3) Apply an even coat of adhesive remover to the two-sided tape.

Recommended adhesive remover: SUMITOMO 3M4000 or equivalent

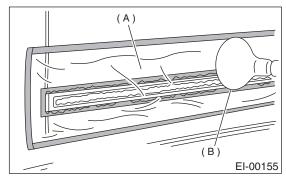
CAUTION:

Do not apply adhesive remover to lacquer base coated body panels.

4) Attach plastic wrap (A) to adhesive remover coated areas and heat to 40 to 60°C (104 to 140°F) for 5 to 10 minutes using an infrared lamp (B).

CAUTION:

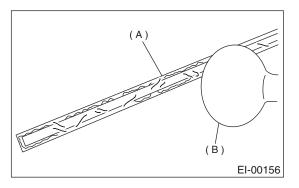
Do not overheat until plastic wrap is somewhat white.



- 5) Using a plastic spatula, remove traces of two-sided tape from body panel.
- 6) Remove masking tape and clean traces of twosided tape using a cloth dampened with white gasoline.
- 7) Similarly, clean traces of adhesive from two-sided tape on side protector.

CAUTION:

Make sure side protector is clean and free of adhesive remover. Clean if necessary.



B: INSTALLATION

1) Apply primer to original side protector (if used), and attach two-sided tape to side protectors as shown.

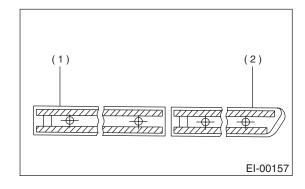
Two-sided tape:

Thickness; 1.2 mm (0.047 in) Width; 5 mm (0.20 in)

Recommended primer:

SUMITOMO 3MK-500 or equivalent

Recommended two-sided tape: SUMITOMO 3M4210 or equivalent



- (1) Front door part
- (2) Rear door part
- 2) Using an infrared lamp, heat body panel to 40 to 60°C (104 to 140°F) and rear surface of side protector to 20 to 30°C (68 to 86°F).
- 3) Remove tack paper from two-sided paper. While aligning clips with holes in body panel, attach two-sided tape to side protector and body panel with a force of more than 49 N (5 kgf, 11 lb) with roller. Do not allow air to enter mating surface of the two.

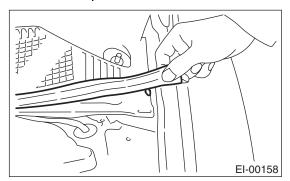
CAUTION:

- To maintain adhesive power, do not wash the vehicle for 24 hours after tape application.
- Push clip in securely using hands.
 (To prevent deformation, do not use excessive force.)

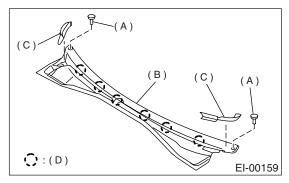
9. Cowl Panel

A: REMOVAL

- 1) Open hood.
- 2) Remove wiper arm. <Ref. to WW-10, REMOV-AL, Front Wiper Arm.>
- 3) Remove front panel seal.



4) Remove clips (A). Loosen clips (D) on six positions, and remove cowl side panel (B).



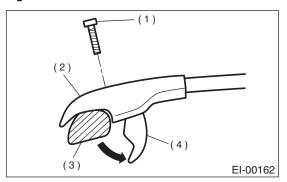
B: INSTALLATION

Install in the reverse order of removal.

10.Crossbar

A: REMOVAL

- 1) Remove TORX® bolt T30 from each cross end support.
- 2) Rotate lower clamp of each end support about 90 degrees downward to remove crossbar.



- (1) TORX® bolt T30
- (2) End support
- (3) Roof rail
- (4) Lower clamp

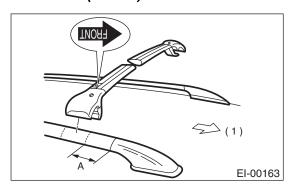
CAUTION:

Do not damage roof panel during removal or installation.

B: INSTALLATION

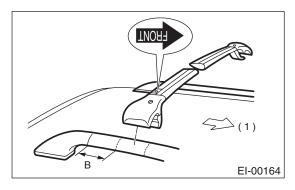
- 1) Rotate lower clamp of each end support about 90 degrees downward.
- 2) Set crossbar so that front direction arrow on the right top face of crossbar points in the direction of vehicle front, and place crossbar end support at position 152.4 mm (6.00 in) back from joint of front roof rail support and roof rail.

Length A: 152.4 mm (6.00 in)



- (1) Front of vehicle
- 3) Set crossbar so that front direction arrow on the right top face of crossbar points in the direction of vehicle front, and place crossbar end support at position 152.4 mm (6.00 in) back from joint of rear roof rail support and roof rail.

Length B: 152.4 mm (6.00 in)



- (1) Front of vehicle
- 4) Tighten end support and lower clamp using TORX® bolt T30.

11.Trailer Hitch

A: REMOVAL

CAUTION:

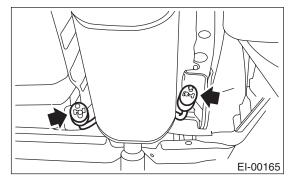
Because trailer hitch is heavy, two people are required to remove it.

- 1) Lift-up the vehicle.
- 2) Remove rubber cushion from body.

NOTE:

If rubber cushion is hard to remove, apply SUBARU CRC.

SUBARU CRC (Part No. 004301003)



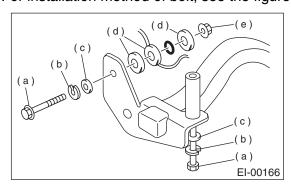
- 3) Remove strap (a).
- 4) Remove bolts. Remove trailer hitch while lowering muffler.

B: INSTALLATION

CAUTION:

Because trailer hitch is heavy, two people are required to remove it.

- 1) Install in the reverse order of removal.
- 2) For installation method of bolt, see the figure.



- (a) Bolt
- (b) Spring washer
- (c) Flat washer
- (d) Plate
- (e) Nut

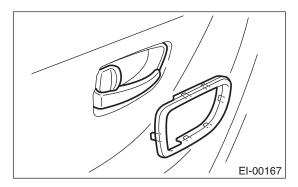
12.Front Door Trim

A: REMOVAL

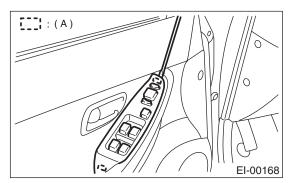
CAUTION:

Do not apply excessive force to clip. Otherwise the clip may be broken.

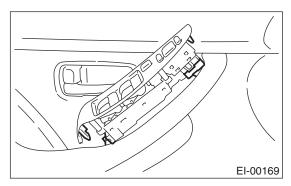
1) Pull up inner remote cover toward you to remove upper hook. Pull down it to remove lower claw. Remove inner remote cover.



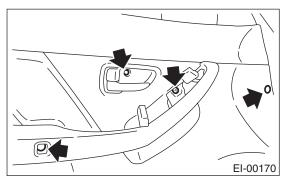
2) Remove two hook (A) of switch panel to remove power window main switch.



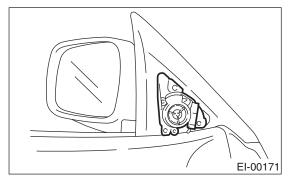
3) Disconnect electrical connectors from power window main switch and mirror switch.



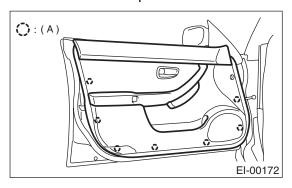
4) Remove three screws and clips.



5) Remove gusset cover. Disconnect electrical connectors to remove speaker.



6) Remove seven clips (A) of trim panel using clip remover to remove trim panel.



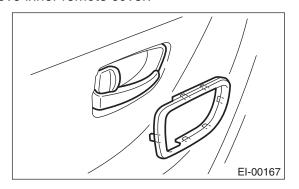
B: INSTALLATIONInstall in the reverse order of removal.

13.Rear Door Trim A: REMOVAL

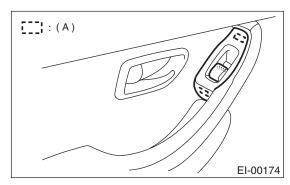
CAUTION:

Do not apply excessive force to clip. Otherwise the clip may be broken.

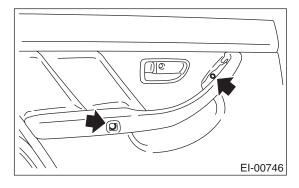
1) Pull up inner remote cover toward you to remove upper hook. Pull down it to remove lower claw. Remove inner remote cover.



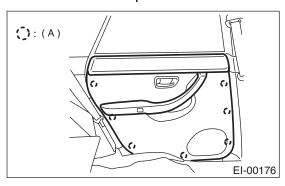
2) Remove two hook (A) of switch panel to remove power window sub switch and disconnect electrical connector.



3) Remove two screws and clips.



4) Remove seven clips (A) of trim panel using clip remover to remove trim panel.

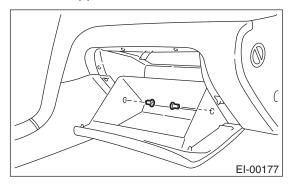


B: INSTALLATIONInstall in the reverse order of removal.

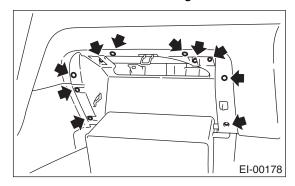
14.Glove Box

A: REMOVAL

1) Remove stoppers.



2) Removal screws to remove glove box.



B: INSTALLATION

Install in the reverse order of removal.

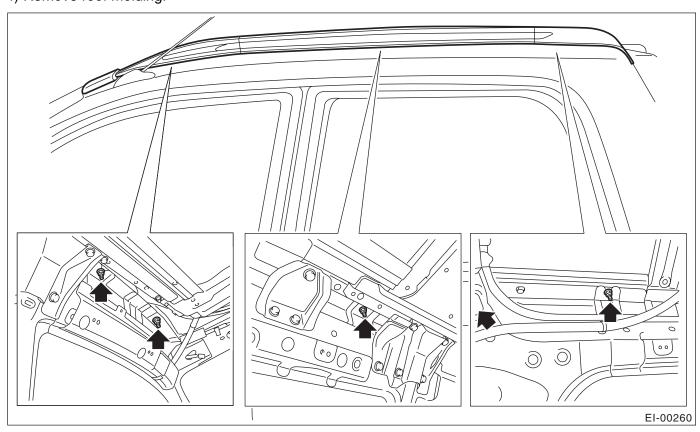
15.Roof Rail

A: REMOVAL

CAUTION:

When removing roof rail, use great care not to damage body panel by stud bolt.

- 1) Remove cargo bed upper molding. <Ref. to EI-49, REMOVAL, Cargo Bed Upper Molding.>
- 2) Remove roof trim. <Ref. to EI-44, REMOVAL, Roof Trim.>
- 3) Remove five nuts and roof rail.
- 4) Remove roof molding.



B: INSTALLATION

Install in the reverse order of removal.

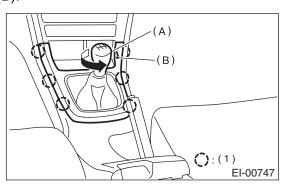
CAUTION:

Be careful not to scratch body panels with roof rail stud bolts when installing them.

16.Console Box

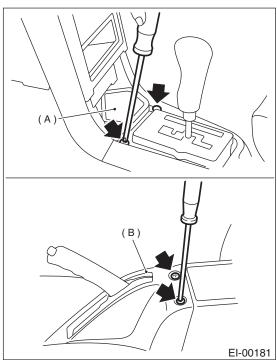
A: REMOVAL

1) Remove shift knob (A) (MT model) and front cover (B).

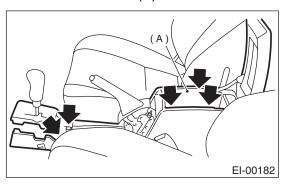


(1) Hook pawl

2) Remove tray (A) and console cover (B).



3) Remove console box (A).



B: INSTALLATION

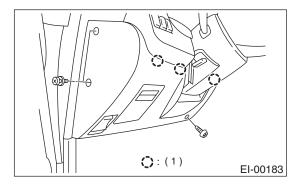
Install in the reverse order of removal.

17.Instrument Panel Assembly A: REMOVAL

Airbag system wiring harness is routed near the combination meter.

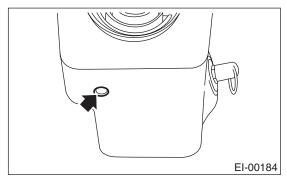
WARNING:

- All airbag system wiring harness and connectors are colored yellow. Do not use electrical test equipment on these circuits.
- Be careful not to damage airbag system harness when servicing the instrument panel.
- 1) Disconnect ground cable from battery.
- 2) Remove lower cover.



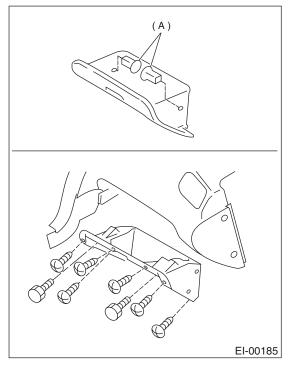
(1) Hook pawl

3) Remove lower column cover and disconnect harness connectors to steering column.

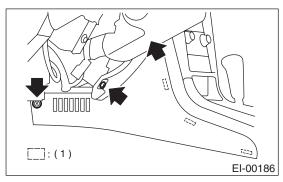


4) Remove steering column assembly (with steering wheel). <Ref. to PS-20, REMOVAL, Tilt Steering Column.>

5) Remove stopper (A) then remove glove box.

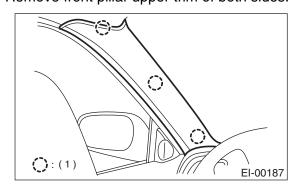


6) Remove side panel of both sides.



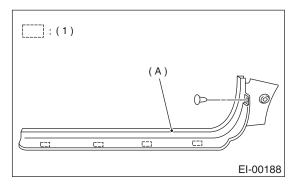
(1) Hook pawl

- 7) Remove passenger's airbag module. <Ref. to AB-14, REMOVAL, Passenger's Airbag Module.> 8) Remove console box. <Ref. to El-36, REMOV-
- AL, Console Box.>
 9) Remove front pillar upper trim of both sides.



(1) Hook pawl

10) Remove front pillar lower trim (A) of passenger side.

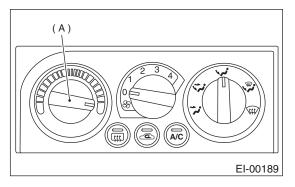


(1) Hook pawl

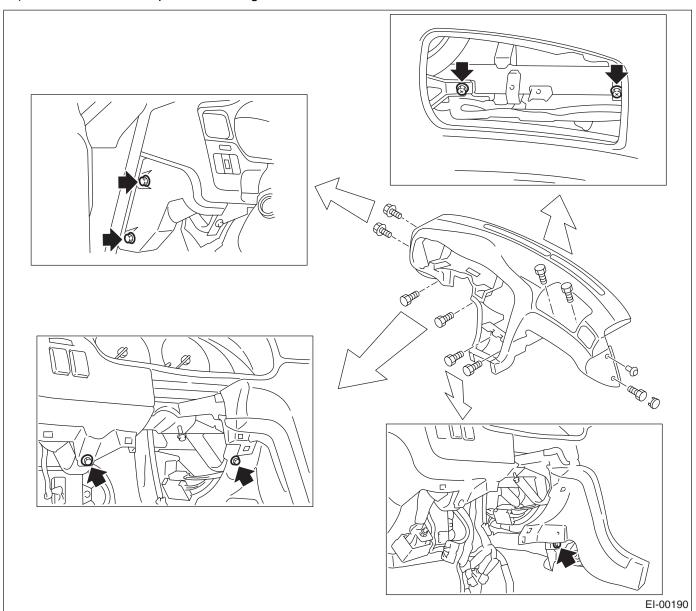
11) Set temperature control switch (A) to "FULL HOT" and then disconnect temperature control cable from bottom of heater unit. (Manual A/C equipped model)

NOTE:

Do not move the switch and link when installing.



12) Remove instrument panel mounting bolts.



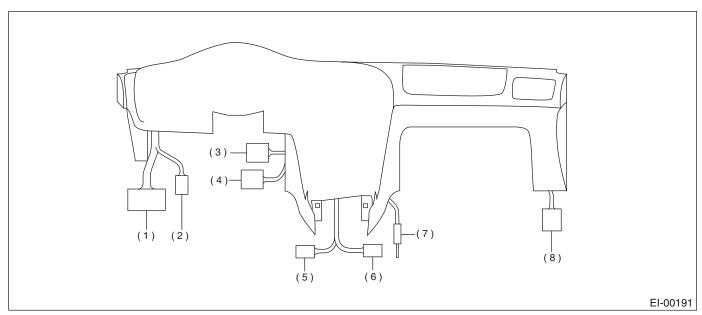
13) Disconnect harness connectors and remove instrument panel ASSY carefully.

CAUTION:

Do not pull the harness when disconnecting the connector.

NOTE:

If necessary, make matching marks for easy reassembly.



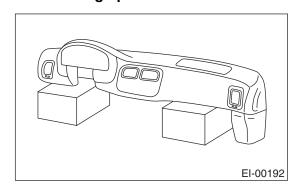
- (1) SMJ/White
- (2) 2P/Blue
- (3) 10P/White

- (4) 8P/White
- (5) 1P/Black
- (6) 1P/Black

- (7) Antenna feeder
- (8) 16P/Blue

CAUTION:

- Take care not to scratch the instrument panel and related parts.
- When storing the removed instrument panel, place it standing up on the floor.



B: INSTALLATION

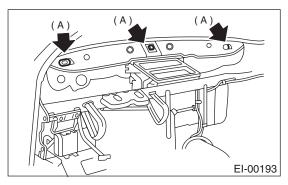
Install in the reverse order of removal.

CAUTION:

- Be careful not to snag the harness.
- Make sure to connect harness connector.
- Take care not to scratch the instrument panel and related parts.

NOTE:

When setting the instrument panel into position, push the three hooks into grommet (A) on the body panel.



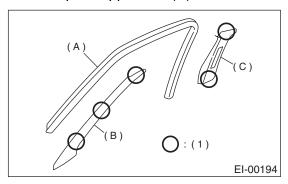
Tightening torque:

Refer to COMPONENT in General Description. <Ref. to El-9, INSTRUMENT PANEL, COMPONENT, General Description.>

18.Upper Inner Trim

A: REMOVAL

- 1) Remove front mole (A).
- 2) Remove front pillar upper trim (B).
- 3) Detach front seat belt shoulder anchor, then remove center pillar upper trim (C).



(1) Hook pawl

B: INSTALLATION

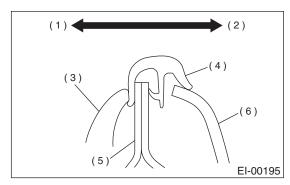
Install in the reverse order of removal.

CAUTION:

Be sure to securely hook pawls of inner trim panel to body flange.

NOTE:

When installing center pillar upper trim and front pillar upper trim, be sure to set front mole as shown in figure.

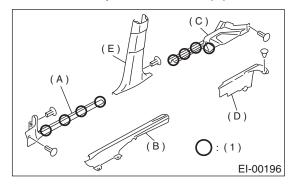


- (1) Outside
- (2) Inside
- (3) Weatherstrip
- (4) Mole
- (5) Body
- (6) Trim

19.Lower Inner Trim

A: REMOVAL

- 1) Remove front pillar lower trim (A).
- 2) Remove side sill front lower cover (B).
- 3) Remove rear seat cushion <Ref. to SE-14, RE-MOVAL, Rear Seat.>, then remove side sill rear upper cover (C).
- 4) Remove side sill rear lower cover (D).
- 5) Remove center pillar lower trim (E).



(1) Hook pawl

B: INSTALLATION

Install in the reverse order of removal.

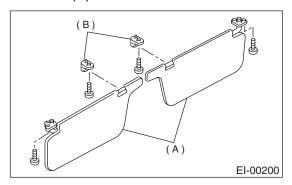
CAUTION:

Be sure to securely hook pawls of inner trim panel to body flange.

20.Sun Visor

A: REMOVAL

Remove mounting screws then detach sun visor (A) and hook (B).



B: INSTALLATION

Install in the reverse order of removal.

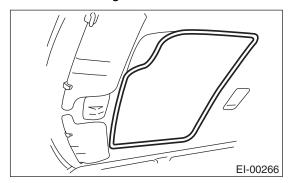
21.Roof Trim

A: REMOVAL

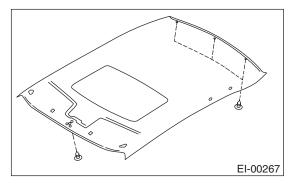
CAUTION:

When removing clip, use great care not to damage the roof trim.

- 1) Disconnect ground cable from battery.
- 2) Remove sunroof switch. <Ref. to SR-10, RE-MOVAL, Sunroof Switch.>
- 3) Remove room light. <Ref. to LI-27, REMOVAL, Room Light.>
- 4) Remove sun visor and hook. <Ref. to EI-43, RE-MOVAL, Sun Visor.>
- 5) Remove assist grip.
- 6) Remove sunroof garnish.



- 7) Remove rear pillar upper trim. <Ref. to EI-52, REMOVAL, Rear Pillar Trim.>
- 8) Remove clip and roof trim.



B: INSTALLATION

Install in the reverse order of removal.

22.Floor Mat

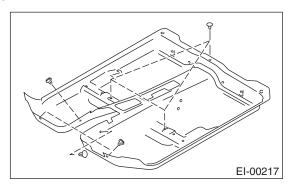
A: REMOVAL

- 1) Remove front seats. <Ref. to SE-6, REMOVAL, Front Seat.>
- 2) Remove rear seat cushion. <Ref. to SE-14, RE-MOVAL, Rear Seat.>
- 3) Remove console box. <Ref. to EI-36, Console Box.>
- 4) Remove front pillar lower trim, side sill rear upper cover and center pillar lower trim. <Ref. to El-42, REMOVAL, Lower Inner Trim.>
- 5) Remove clips from floor mat.

NOTE:

When pulling out edge, do not pull mat alone; pull mat together with edge. Ply off two steel clips on side sill front cover and one on side sill rear cover using screwdriver.

- 6) Remove mat hook.
- 7) Remove mat from toe board area.
- 8) Remove mat from rear heater duct.
- 9) Roll mat, and then take it out of opened rear door.



B: INSTALLATION

Install in the reverse order of removal.

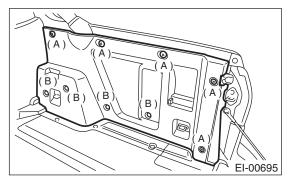
NOTF:

- Secure mat firmly with hook and Velcro tape.
- Insert mat edge firmly into the groove of side sill cover.

23. Cargo Bed Side Tray

A: REMOVAL

- 1) Open tail gate.
- 2) Remove bolt using TORX® bit T30. Remove clip.



- (A) Bolt
- (B) Clip

B: INSTALLATION

Install in the reverse order of removal.

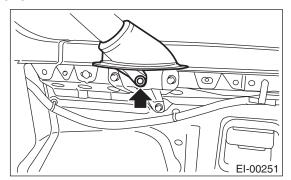
Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

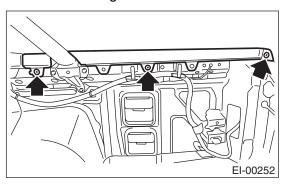
24. Cargo Bed Side Molding

A: REMOVAL

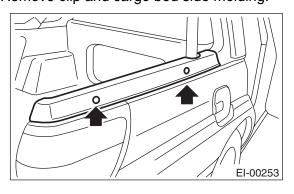
- 1) Remove cargo bed side tray. <Ref. to EI-46, RE-MOVAL, Cargo Bed Side Tray.>
 2) Using TORX® bit T25, remove bolt to remove
- luggage pipe lower cover.



3) Remove bolt using TORX® bit T25.



4) Remove clip and cargo bed side molding.

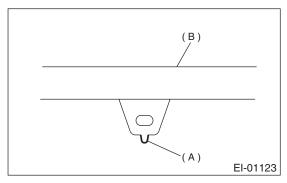


B: INSTALLATION

Install in the reverse order of removal.

NOTE:

- Do not reuse the removed clips; use new ones.
- When installing the cargo bed side molding, 2 front bolts are installed in the mark (protrusion) on the flange lower end of the molding.



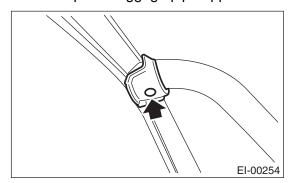
- (A) Mark
- (B) Cargo bed side molding

Tightening torque:

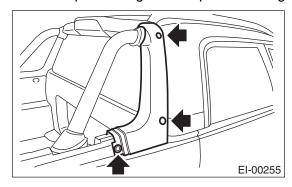
Cargo bed side molding; 7.5 N·m (0.76 kgf-m, 5.53 ft-lb) Luggage pipe lower cover; 7.5 N·m (0.76 kgf-m, 5.53 ft-lb) Cargo bed side tray; 7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

25. Cargo Bed C Pillar Molding A: REMOVAL

- 1) Remove cargo bed side tray. <Ref. to EI-46, RE-MOVAL, Cargo Bed Side Tray.>
- 2) Remove cargo bed side molding. <Ref. to EI-47, REMOVAL, Cargo Bed Side Molding.>
- 3) Remove clip and luggage pipe upper cover.



4) Remove clip and cargo bed C pillar molding.

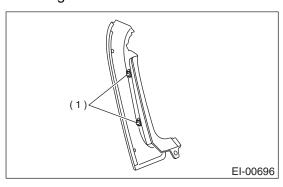


NOTE:

Do not reuse the removed clips; use new ones.

B: INSTALLATION

1) Replace all clips on the reverse of cargo bed C pillar molding with new ones.



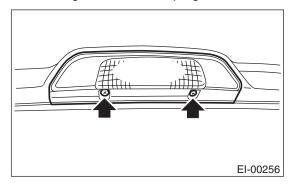
(1) Clip

2) Install in the reverse order of removal.

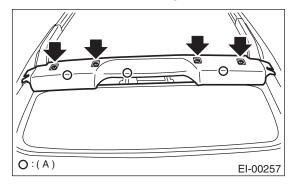
Tightening torque:
Cargo bed side molding;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)
Cargo bed side tray;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

26.Cargo Bed Upper Molding A: REMOVAL

- 1) Remove cargo bed side tray. <Ref. to EI-46, RE-MOVAL, Cargo Bed Side Tray.>
- 2) Remove cargo bed side molding. <Ref. to EI-47, REMOVAL, Cargo Bed Side Molding.>
- 3) Remove cargo bed C pillar molding. <Ref. to El-48, REMOVAL, Cargo Bed C Pillar Molding.>
- 4) Remove high-mounted stop light.



5) Remove cap and bolt using TORX® bit T25.



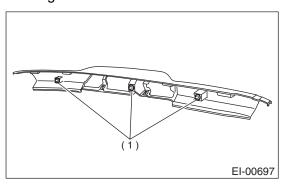
(A) Clip

NOTE:

Do not reuse the removed clips; use new ones.

B: INSTALLATION

1) Replace all clips on the reverse of cargo bed upper molding with new ones.



2) Install in the reverse order of removal.

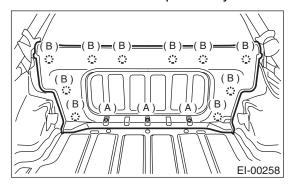
Tightening torque:

Cargo bed upper molding;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)
Cargo bed side molding;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)
Cargo bed side tray;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

27.Back Panel Tray

A: REMOVAL

- 1) Remove cargo bed side tray. <Ref. to EI-46, RE-MOVAL, Cargo Bed Side Tray.>
- 2) Remove cargo bed side molding. <Ref. to EI-47, REMOVAL, Cargo Bed Side Molding.>
- 3) Remove cargo bed C pillar molding. <Ref. to El-48, REMOVAL, Cargo Bed C Pillar Molding.>
- 4) Remove screw and back panel tray.



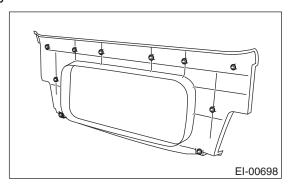
- (A) Screw
- (B) Clip

NOTE:

Do not reuse the removed clips; use new ones.

B: INSTALLATION

1) Replace all clips on the reverse of back panel tray with new ones.



2) Install in the reverse order of removal.

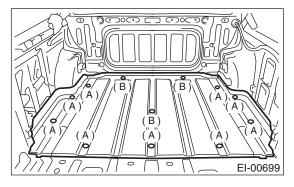
Tightening torque:

Cargo bed side molding; 7.5 N·m (0.76 kgf-m, 5.53 ft-lb) Cargo bed side tray; 7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

28. Cargo Bed Floor Tray

A: REMOVAL

- 1) Remove cargo bed side tray. <Ref. to EI-46, RE-MOVAL, Cargo Bed Side Tray.>
- 2) Remove cargo bed side molding. <Ref. to EI-47, REMOVAL, Cargo Bed Side Molding.>
- 3) Remove cargo bed C pillar molding. <Ref. to El-48, REMOVAL, Cargo Bed C Pillar Molding.>
- 4) Remove back panel tray. <Ref. to EI-50, RE-MOVAL, Back Panel Tray.>
- 5) Remove bolt using TORX® bit T25. Remove clip.



- (A) Bolt
- (B) Clip

B: INSTALLATION

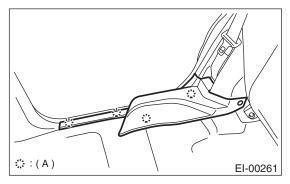
Install in the reverse order of removal.

Tightening torque:
Cargo bed floor tray;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)
Cargo bed side molding;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)
Cargo bed side tray;
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

29.Rear Pillar Trim

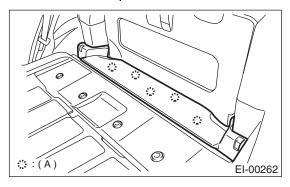
A: REMOVAL

1) Remove side sill rear upper cover.



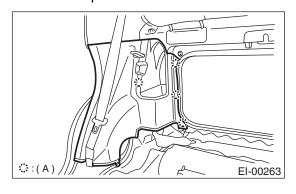
(A) Clip

- 2) Fold rear seat backrest.
- 3) Remove floor trim panel.



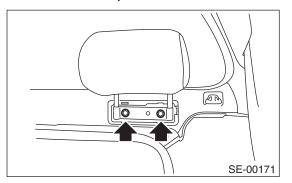
(A) Clip

4) Remove rear pillar lower trim.

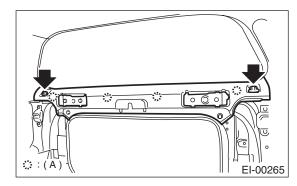


(A) Clip

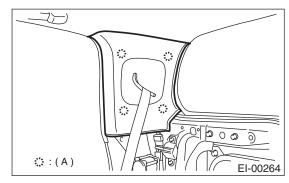
5) Remove rear seat pillow.



6) Remove cargo net hook and remove rear bulkhead trim.



7) Remove rear pillar upper trim.



(A) Clip

B: INSTALLATION

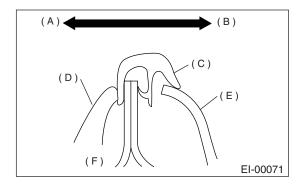
Install in the reverse order of removal.

CAUTION:

Make sure that trim panel claw is aligned with body flange.

NOTE:

When installing upper trim, make sure to install molding as shown in the figure.

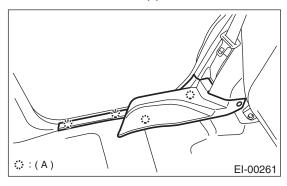


- (A) Outside
- (B) Inside
- (C) Molding
- (D) Weatherstrip
- (E) Trim
- (F) Body panel

30.Rear Bulkhead Trim

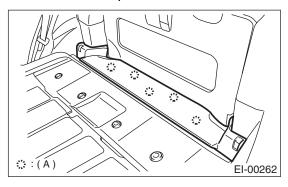
A: REMOVAL

1) Remove side sill rear upper cover.



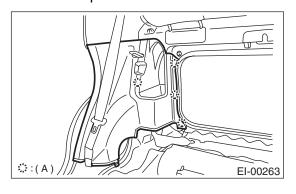
(A) Clip

- 2) Fold rear seat backrest.
- 3) Remove floor trim panel.



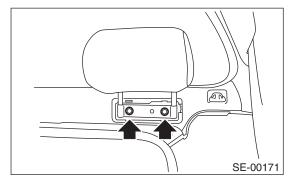
(A) Clip

4) Remove rear pillar lower trim.

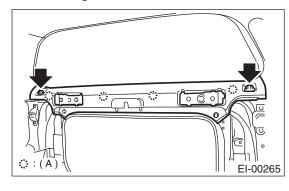


(A) Clip

5) Remove rear seat pillar.



6) Remove cargo net hook and rear bulkhead trim.



(A) Clip

B: INSTALLATION

Install in the reverse order of removal.

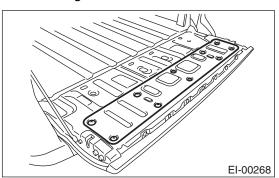
CAUTION:

Make sure that trim panel claw is securely installed on body panel.

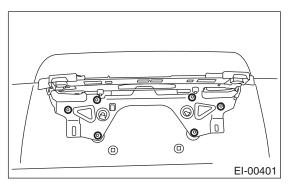
31. Tail Gate Garnish

A: REMOVAL

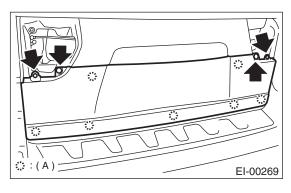
- 1) Remove tail gate tray. <Ref. to EI-56, REMOV-AL, Tail Gate Tray.>
- 2) Remove tail gate cover.



- 3) Remove rear finisher light. <Ref. to LI-20, RE-MOVAL, Rear Finisher Light Assembly.>
- 4) Remove license plate bracket using TORX® bit T25.



5) Remove clip and bolt and detach tail gate garnish.



(A) Clip

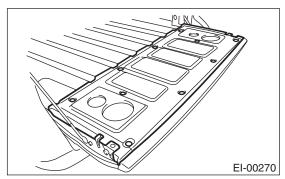
B: INSTALLATION

Install in the reverse order of removal.

32. Tail Gate Tray

A: REMOVAL

- Open tail gate.
 Remove bolt using TORX[®] bit T25.



B: INSTALLATION

Install in the reverse order of removal.

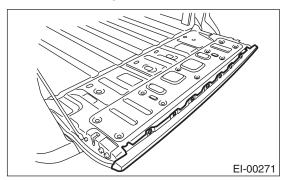
Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

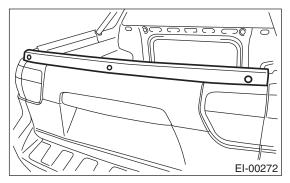
33. Tail Gate Molding

A: REMOVAL

- 1) Remove tail gate tray. <Ref. to EI-56, REMOV-
- AL, Tail Gate Tray.>
- 2) Remove bolt using TORX[®] bit T25.



3) Remove clip and tail gate molding.



B: INSTALLATION

Install in the reverse order of removal.

NOTE:

Do not reuse the removed clips; use new ones.

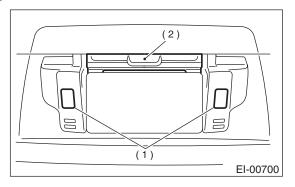
Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

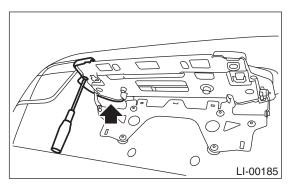
34.License Plate Bracket

A: REMOVAL

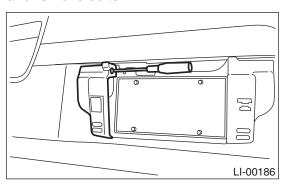
1) Push release button to release the lock. Remove upper cover.



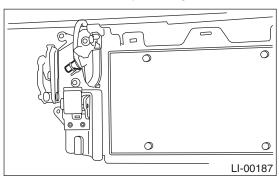
- (1) Rease button
- (2) Upper cover
- 2) Lift up license plate bracket and remove bolts on the reverse



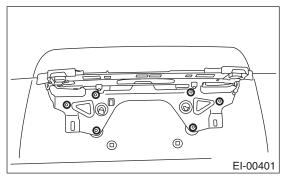
3) Return license plate bracket to its original position and remove bolts.



4) Remove side cover by turning socket.



5) Lift up license plate bracket. Remove bolts using $\mathsf{TORX}^{\texttt{®}}$ bit T25.



B: INSTALLATION

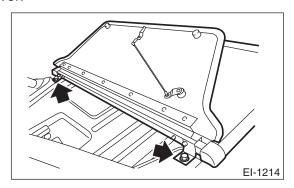
Install in the reverse order of removal.

Tightening torque: 7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

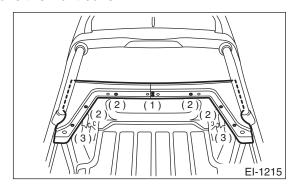
35. Hard Bed Cover

A: REMOVAL

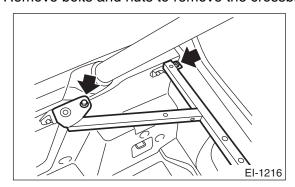
1) Remove two mounting bolts to remove the bed cover.



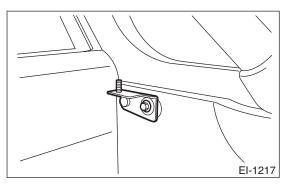
2) Remove the front striker, clips and bolts to remove the front cover.



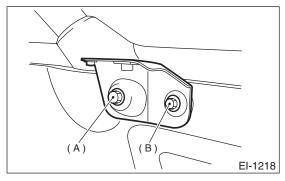
- (1) Front striker
- (2) Clip
- (3) Bolt
- 3) Remove bolts and nuts to remove the crossbar.



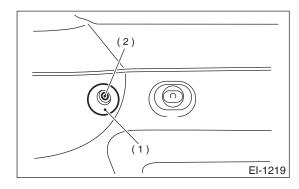
4) Remove the front bracket.



5) Remove the rear bracket.

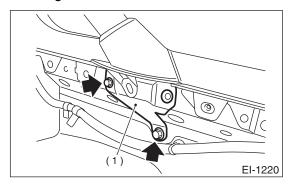


6) Check the aligning positions of the rear bracket mounting bolt (A) hole and the guard pipe lower bracket hole.



- (1) Guard pipe lower bracket
- (2) Bolt (A) hole
- 7) If the guard pipe lower bracket hole is not aligned with the bolt (A) hole, adjust the hole position with the following procedure.
 - (1) Remove the cargo bed side tray. <Ref. to El-
 - 46, REMOVAL, Cargo Bed Side Tray.>

(2) Loosen two guard pipe lower bracket mounting bolts.



- (1) Guard pipe lower bracket
- (3) Align the bolt (A) hole with the guard pipe lower bracket hole to tighten two bolts to the specified torque.

Tightening torque:

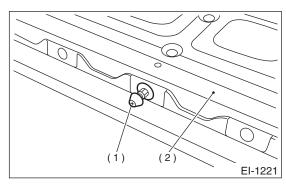
70 N·m (7.1 kgf-m, 52 ft-lb)

(4) Install the cargo bed side tray.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

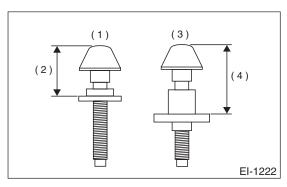
- 8) Remove the tail gate tray. <Ref. to EI-56, RE-MOVAL, Tail Gate Tray.>
- 9) Remove the rear striker.



- (1) Rear striker
- (2) Tail gate

B: INSTALLATION

1) Adjust the front striker and the rear striker to the specified values.

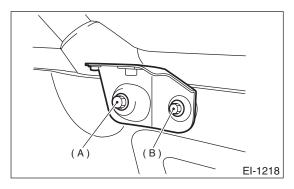


- (1) Front striker
- (2) 21 mm (0.83 in)
- (3) Rear striker
- (4) 28.5 mm (1.122)
- 2) Install the rear striker to the tail gate.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

3) Install the rear bracket.



Tightening torque:

Bolt (A):

70 N⋅m (7.1 kgf-m, 52 ft-lb)

Bolt (B):

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

4) Install the front bracket.

Tightening torque:

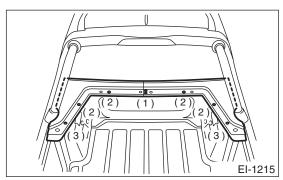
7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

5) Install the crossbar.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

6) Install the front cover.



- (1) Front striker
- (2) Clip
- (3) Bolt

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

7) Install the bed cover.

Tightening torque:

70 N⋅m (7.1 kgf-m, 52 ft-lb)

- 8) Make sure that the bed cover can be securely locked and unlocked with the key. Adjust the front and rear striker by changing their heights.
- 9) Install the tail gate tray.

Tightening torque:

7.5 N·m (0.76 kgf-m, 5.53 ft-lb)

MEMO: