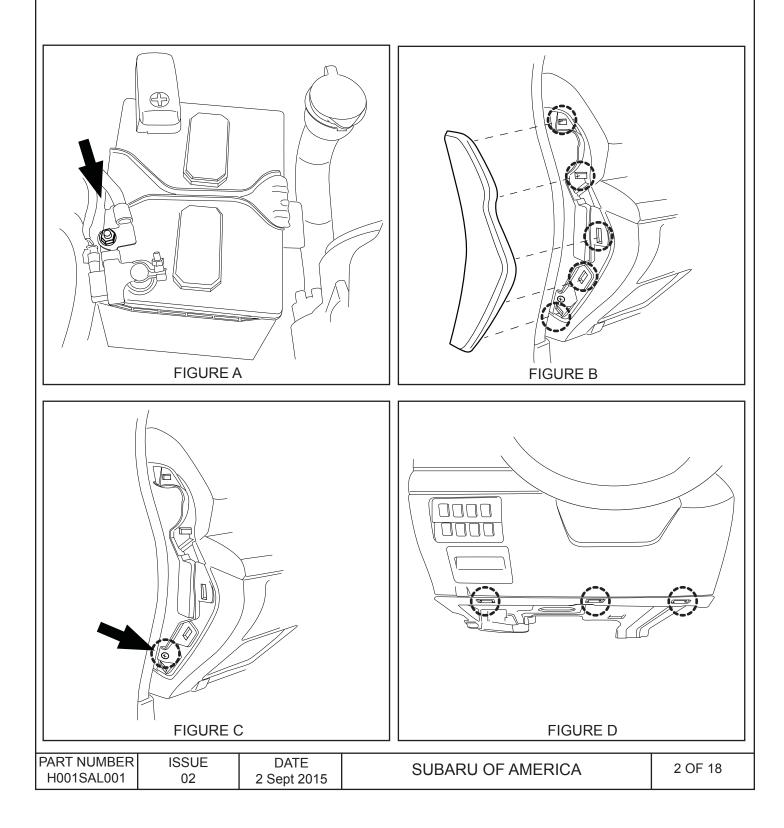


4 VEHICLE PREPARATION

- 1. Using a 12mm socket/ratchet, disconnect the negative battery terminal. (FIGURE A) **NOTE: Do not disconnect the battery cable from the battery post.**
- 2. Starting at the bottom, use a panel removal tool to carefully remove the left side dashboard panel (FIGURE B). Remove one (1) Phillips screw securing the lower dashboard panel on the left side of the dashboard. (FIGURE C)
- 3. Remove the driver's side under dashboard finisher panel by depressing the three (3) pressure clips and pulling downwards. Disconnect any connectors that may be attached to it. (FIGURE D)



- 4 **VEHICLE PREPARATION** 4. Using a panel removal tool, carefully remove the driver's left side lower dashboard panel by pulling straight out. Unplug all connectors attached to the חחחח dashboard panel. (FIGURE E) חחח **FIGURE E** 5. Using a 10mm socket/ratchet, remove the two (2) 10mm bolts securing the metal knee bolster. (FIGURE F) $(\bigcirc$ **FIGURE F** 6. Remove the steering column shrow Using a Phillips screwdriver, remove o (1) Phillips screw on the left side fa and one (1) Phillips screw on the right side face of the steering column shro Carefully unsnap and remove the low
- Using a Phillips screwdriver, remove one (1) Phillips screw on the left side face and one (1) Phillips screw on the right side face of the steering column shroud. Carefully unsnap and remove the lower steering column shroud panel and then remove the upper steering column shroud panel (FIGURE G). NOTE: You will need to rotate the steering wheel to access the Phillips screws on the face of the steering column.

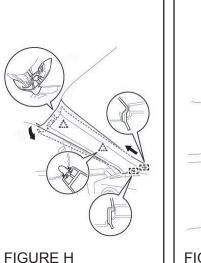
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5 WINDSHIELD MOUNT ANTENNA INSTALLATION -NON EYESIGHT EQUIPPED VEHICLES

IMPORTANT! THIS SECTION ONLY APPLIES TO VEHICLES WITHOUT THE EYESIGHT SYSTEM. FOR VEHICLES EQUIPPED WITH THE EYESIGHT SYSTEM, DISREGARD THIS SECTION AND PROCEED TO SECTION 6.

A-PILLAR PANEL REMOVAL

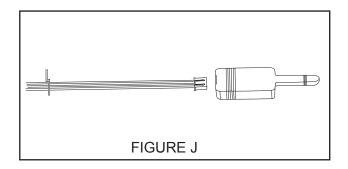
- Remove the driver's side A-pillar panel by releasing the two (2) body clips along with the lower clips where the A-pillar panel meets the dashboard. (FIGURE H)
- Rotate the A-pillar panel away from the dashboard and release the airbag tether clip from the top of the A-pillar panel. (FIGURE I) CAUTION! Use care when performing this step to avoid damage to the curtain airbag. If the airbag is damaged, it must be replaced.
- Inspect the white protective (non-woven fabric) of the curtain airbag. If the fabric is damaged, the curtain airbag assembly must be replaced.

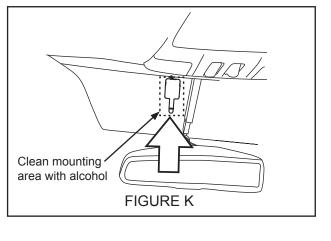




ANTENNA POD MOUNTING / HARNESS ROUTING

- Plug the 5-pin connector on the antenna harness into the 5-pin port on the antenna pod. (FIGURE J)
- 2. Clean glass surface near antenna mounting area with alcohol. Remove the adhesive backing on the antenna pod and apply the antenna to the windshield. The base of the antenna pod (harness connection end) should line up to the area of the windshield where the solid black film and dotted black film meet and 25mm (1") left of the windshield center mark. (FIGURE K)



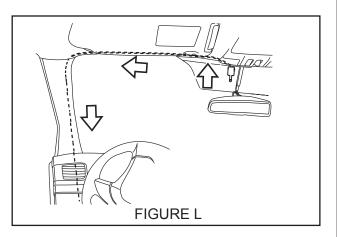


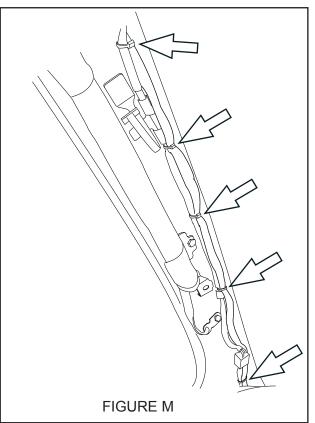
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5 WINDSHIELD MOUNT ANTENNA INSTALLATION -NON EYESIGHT EQUIPPED VEHICLES, continued

- 3. Route the antenna harness across the headliner and down the A-pillar tucking the cable below the driver's side dashboard through the opening closest to the windshield and allow the harness to hang loose behind the vehicle's dashboard mounted fusebox. (FIGURE L) The antenna harness will be plugged into the remote start control module later.
- Secure the antenna harness to the existing vehicle wiring in the A-pillar in five (5) places using the supplied 20cm tie wraps. (FIGURE M)
- 5. Using one of the supplied 20cm tie wraps, secure the antenna harness to the vehicle wiring behind the fusebox.
- 6. Re-install the airbag tether clip to the A-pillar panel and rotate the panel into place.
- 7. Re-install the A-pillar panel.

PROCEED TO SECTION 7





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6 WINDSHIELD MOUNT ANTENNA INSTALLATION -EYESIGHT EQUIPPED VEHICLES

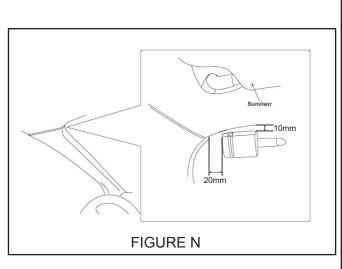
IMPORTANT! THIS SECTION ONLY APPLIES TO VEHICLES EQUIPPED WITH THE EYESIGHT SYSTEM. FOR VEHICLES WITHOUT THE EYESIGHT SYSTEM, DISREGARD THIS SECTION AND RETURN TO SECTION 5.

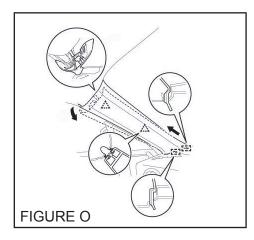
ANTENNA MOUNTING

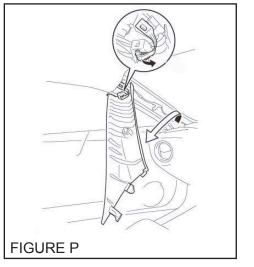
- Mount the antenna pod to the top left hand side of the windshield, near the headliner and driver's side A-pillar trim panel with the antenna pod "finger" facing the passenger's side. Use alcohol to clean the area thoroughly. (FIGURE N)
- Using a ruler, ensure the top left corner of the antenna pod will be 20mm (3/4") from the right corner of the A-pillar trim panel in a straight line and 10mm (3/8") down from the headliner to the upper right corner of the antenna pod. Note: The antenna pod should be level left to right. (FIGURE N)
- Remove the adhesive backing and apply the antenna pod to the windshield as described in step 2 above. (FIGURE N)

A-PILLAR PANEL REMOVAL

- Remove the driver's side A-pillar panel by releasing the two (2) body clips along with the lower clips where the A-pillar panel meets the dashboard. (FIGURE O)
- Rotate the A-pillar panel away from the dashboard and release the airbag tether clip from the top of the A-pillar panel. (FIGURE P) CAUTION! Use care when performing this step to avoid damage to the curtain airbag. If the airbag is damaged, it must be replaced.
- 3. Inspect the white protective (non-woven fabric) of the curtain airbag. If the fabric is damaged, the curtain airbag assembly must be replaced.







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6 WINDSHIELD MOUNT ANTENNA INSTALLATION -EYESIGHT EQUIPPED VEHICLES, continued

HARNESS ROUTING

- 1. Plug the 5-pin antenna harness into the previously installed antenna pod. (FIGURE Q)
- 2. Route the antenna harness straight up into the headliner, then across the headliner and down the A-pillar tucking the cable below the driver's side dashboard through the opening closest to the windshield and allow the harness to hang loose behind the vehicle's dashboard mounted fusebox. The antenna harness will be plugged into the remote start control module later. (FIGURE R)
- Secure the antenna harness to the existing vehicle wiring in the A-pillar in five (5) places using the supplied 20cm tie wraps. (FIGURE S)
- 4. Using one of the supplied 20cm tie wraps, secure the antenna harness to the vehicle wiring behind the fusebox.
- 5. Re-install the airbag tether clip to the A-pillar panel and rotate the panel into place.
- 6. Re-install the A-pillar panel.

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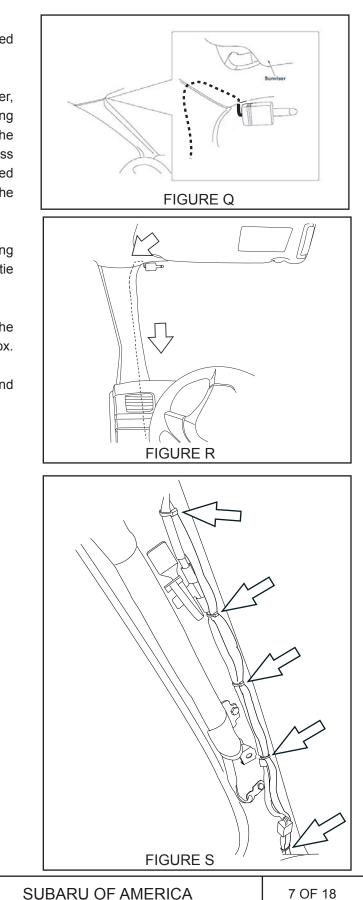
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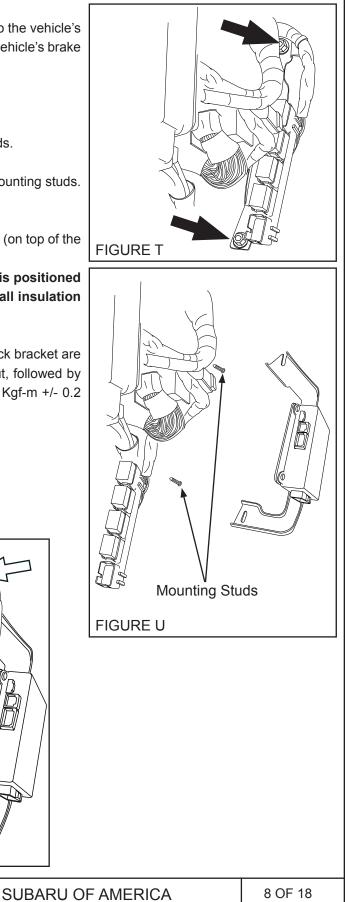
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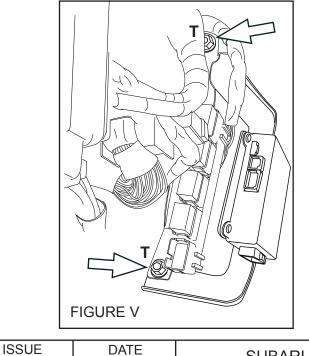
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7 REMOTE START ECU/BRACKET MOUNTING

- Locate the vehicle's auxiliary relay block/bracket mounted to the vehicle's dashwall behind the vehicle's fusebox and to the left of the vehicle's brake pedal. (FIGURE T)
- 2. Remove the two (2) 10mm mounting nuts. (FIGURE T)
- 3. Lift the auxiliary relay block bracket off of the mounting studs.
- Position the remote engine starter ECU bracket onto the mounting studs. (FIGURE U)
- Install the relay block bracket back onto the mounting studs (on top of the remote engine starter ECU bracket). (FIGURE V)
 NOTE: Confirm the remote engine starter ECU bracket is positioned under the relay block bracket and on top of the dashwall insulation material.
- Verify the remote engine starter ECU bracket and relay block bracket are properly seated, then torque the lower 10mm mounting nut, followed by the upper 10mm mounting nut to 10.8 Nm +/- 2 Nm (1.10 Kgf-m +/- 0.2 Kgf-m, 8 ft-lbs +/- 1.5 ft-lbs).





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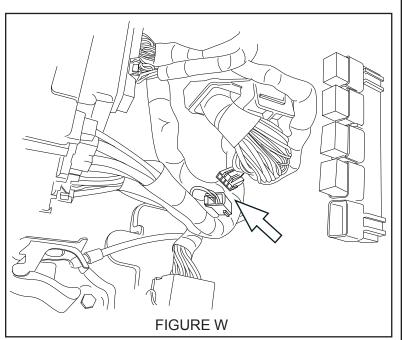
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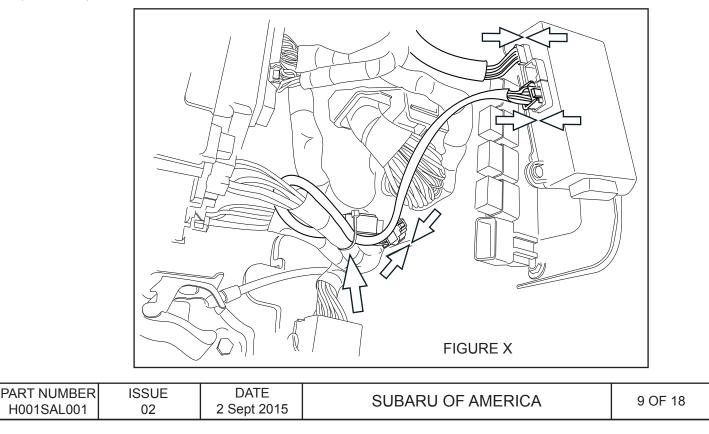
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8 PRE-ARRANGED JUMPER HARNESS CONNECTIONS

- Locate the vehicle's 4-pin and 2-pin pre-fit connections behind the vehicle's fusebox near the kick panel area. These connectors are secured to the vehicle wiring using breakaway tape. (FIGURE W)
- When the 2-pin pre-fit connector is located, unplug and discard the mating wire jumper. (This is used for the power window interrupt circuit).
- Plug the remote start pre-arranged jumper harness
 4-pin and 2-pin connectors into the corresponding pre-fit connectors. (FIGURE W)
- Plug the 12-pin pre-arranged harness into the 12pin white port on the remote engine starter ECU (installed in previous step). (FIGURE W)
- Plug the 5-pin antenna harness into the 5-pin black port on the remote engine starter ECU (installed in previous step). (FIGURE W)
- Using one (1) of the supplied 20cm tie wraps, bundle and secure any excess pre-arranged jumper harness to the existing vehicle wiring. (FIGURE X)



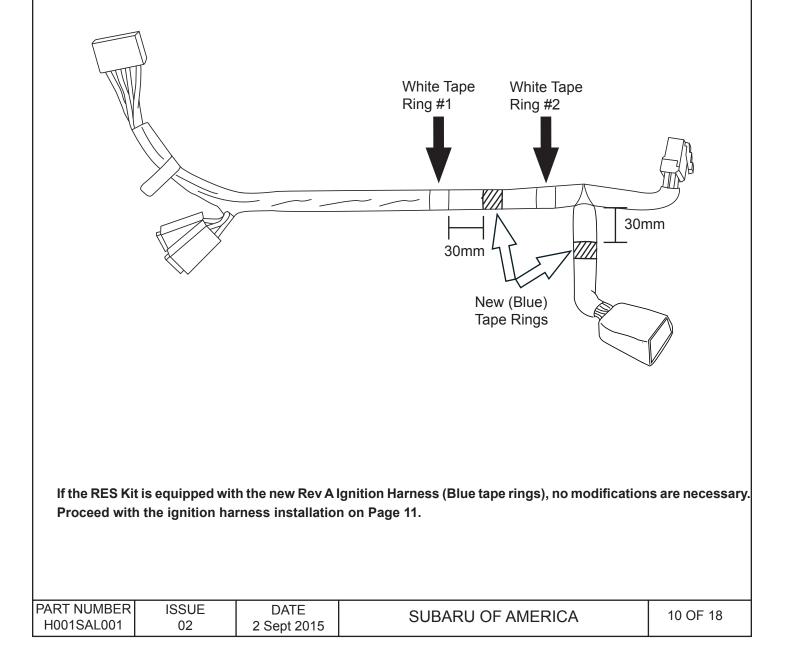


9 IGNITION HARNESS CONNECTIONS

8-PIN IGNITION SWITCH CONNECTIONS - REVISED SECURING LOCATIONS

If the RES Kit is equipped with the original Rev - Ignition Harness (White tape rings), a minor modification is required before routing to identify the new tie wrap securing locations.

- 1. Measure 30mm from the edge of White Tape Ring #1 and mark the harness by wrapping a new piece of electrical tape around the harness, as shown below.
- 2. Measure 30mm from the male ignition connector harness break out and mark the harness by wrapping a new piece of electrical tape around the harness, as shown below.
- 3. The two (2) new securing locations, marked with electrical tape, will be used during Action #4 on Page 11 (Figure AA). The white tape rings are no longer used.



9 IGNITION HARNESS CONNECTIONS, continued

8-PIN IGNITION SWITCH CONNECTIONS, continued

- 1. Adjust the tilt/telescoping steering column all the way out and down.
- Locate the 8-pin ignition switch connector and the 2-pin key lock solenoid connector on the right side of the steering column and unplug both connectors. Carefully pull the connectors down and away from the steering column. (FIGURE Y)
- Using a Phillips screwdriver, remove the two (2) screws securing the large metal bracket to the left side of the steering column. (FIGURE Z)
- 4. Using (2) of the supplied 39cm tie wraps, secure the remote start ignition harness to the vehicle harness running up the center of the large bracket. The first tie wrap should secure the harness in front of the bracket, at the new (blue) tape ring. The second tie wrap should secure the harness behind the bracket, at the new (blue) tape ring. (FIGURE AA)

CAUTION: DO NOT SECURE THE REMOTE START HARNESS TO ANY YELLOW HARNESSES / CONNECTORS (AIRBAG SYSTEM) IN THE VEHICLE.

 Using a Phillips screwdriver, reinstall the two (2) screws securing the large metal bracket to the left side of the steering column. Torque the screws to 4 Nm +/- 1 Nm (0.41 Kgf-m +/- 0.1Kgf-m, 2.95 ft. lbs. +/- 0.74 ft. lbs.). (FIGURE Z)

NOTE: Use care to ensure the screws are not over tightened. Over tightening the screws will result in damage to the screws.

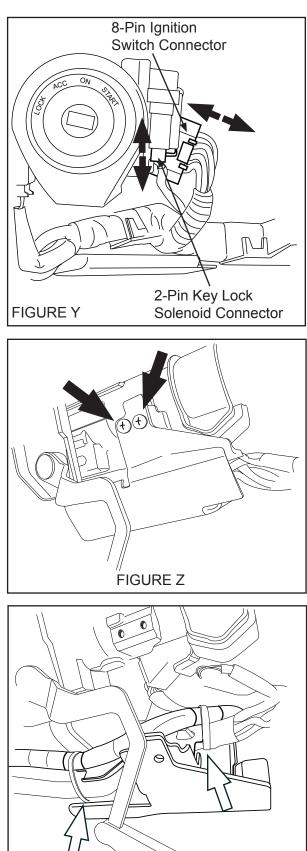


FIGURE AA

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9 IGNITION HARNESS CONNECTIONS, continued

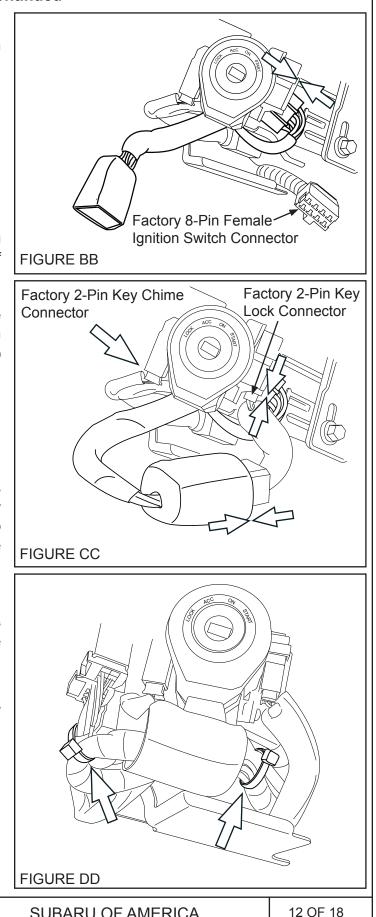
8-PIN IGNITION SWITCH CONNECTIONS, continued

 Plug the remote engine starter ignition harness 8-pin female connector into the vehicle's ignition switch. (FIGURE BB)

 Reconnect the 2-pin key lock solenoid connector, making sure the harness is routed outside (passenger side) of the remote start ignition harness. (FIGURE CC)

In addition, ensure the 2-pin key chime connector on the left hand side of the vehicle's ignition switch has not been disconnected and is completed engaged. (FIGURE CC)

- CAUTION: IF EITHER CONNECTOR IS NOT FULLY ENGAGED, THE IGNITION KEY COULD BE REMOVED WHEN THE TRANSMISSION SHIFT LEVEL IS NOT IN PARK.
- Carefully fold back the remote engine starter harness 8-pin foam wrapped male connector. Plug the previously unplugged vehicle's female ignition switch connector into the remote engine starter ignition harness 8-pin male connector. (FIGURE CC)
- Secure the remote engine starter harness to the vehicle's wiring harness using two (2) of the supplied 39cm tie wraps. (FIGURE DD)
- CAUTION: DO NOT SECURE THE REMOTE START HARNESS TO ANY YELLOW HARNESSES/ CONNECTORS (AIRBAG SYSTEM) IN THE VEHICLE.



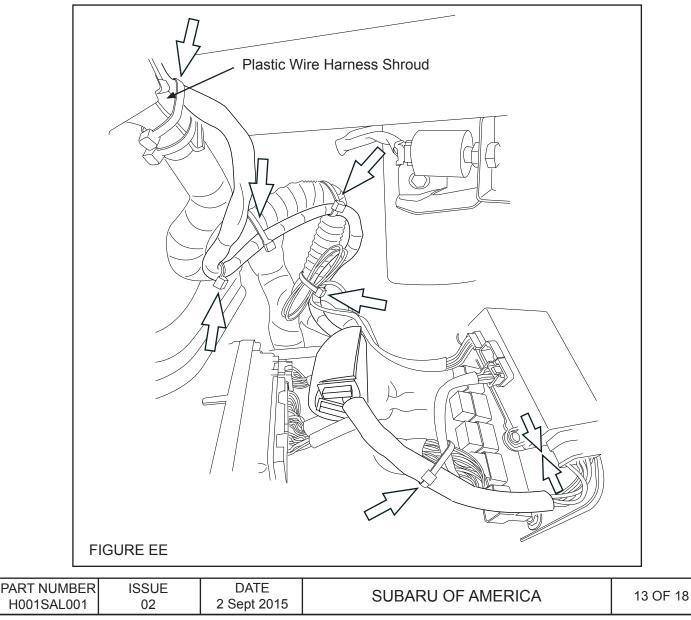
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9 IGNITION HARNESS CONNECTIONS, continued

8-PIN IGNITION SWITCH CONNECTIONS, continued

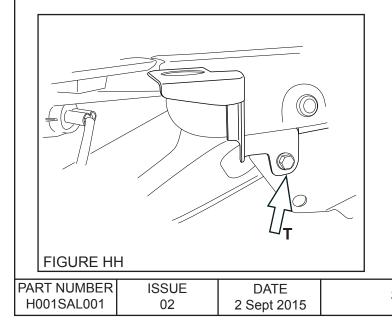
- Route the remote engine starter ignition harness down the steering column along the top of the vehicle's plastic wire harness shroud. Secure the remote engine starter harness to the vehicle's plastic wire harness shroud with one (1) supplied 39cm tie wrap. (FIGURE EE)
- 11. Continue to route the remote engine starter ignition harness along the vehicle's ignition harness towards the left side of the dashboard securing with three (3) of the supplied 39cm tie wraps. (FIGURE EE)
- 12. Allow the remote engine starter ignition harness to drop down behind the vehicle's fusebox and plug into the bottom (large) connector on the remote engine starter ECU (previously mounted in Step 7). (FIGURE EE)
- 13. Secure the remote engine starter ignition harness and any excess antenna harness to the vehicle wiring using two (2) of the supplied 39cm tie wraps. (FIGURE EE)

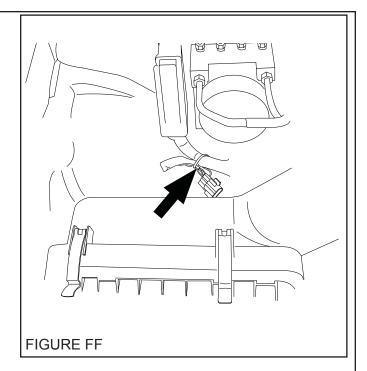
CAUTION: DO NOT SECURE THE REMOTE START HARNESS TO ANY YELLOW HARNESSES / CONNECTORS (AIRBAG SYSTEM) IN THE VEHICLE.

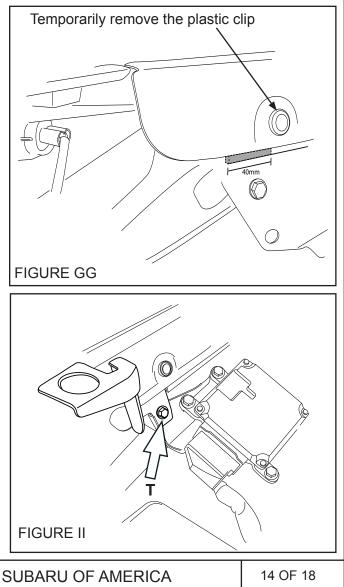


10 HOOD SAFETY SWITCH MOUNTING

- In the engine compartment, locate the 2-pin pre-fit hood safety switch connector secured to the wire harness near the ABS Unit with breakaway tape, behind the air filter box on the passenger's side of the vehicle. (FIGURE FF)
- 2. Locate the foam gasket along the bottom of the passenger side felt fender liner. Temporarily remove the plastic clip to prevent damage to the felt fender liner. Using wire cutters, carefully cut and remove 40mm of the foam gasket starting at the front of the felt fender liner. (FIGURE GG)
- 2.5L (4 Cylinder) vehicles Mount the hood safety switch bracket to the passenger side inner/lower fender support frame using the supplied 10mm bolt and pre-arranged weld nut in the inner fender support. Ensure that the supporting tongue on the bracket is seated flat against the top of the frame rail under the felt fender liner while tightening the 10mm bolt. (FIGURE HH)
- 4. 3.6L (6 Cylinder) vehicles Locate the A/T control module mounted on the passenger's side fender support and remove the bracket mounting bolt closest to the front of the vehicle. Mount the hood safety switch bracket to the A/T control module bracket using the previously removed 10mm bolt. Ensure that the supporting tongue on the bracket is seated flat against the top of the frame rail under the felt fender liner while tightening the 10mm bolt. (FIGURE II)
- 5. Torque the mounting bolt to 10.8 Nm +/- 2 Nm (1.10 Kgf-m +/- 0.2 Kgf-m, 8 ft-lbs +/- 1.5 ft-lbs).







10 HOOD SAFETY SWITCH MOUNTING, continued

- Using the supplied foam tape, wrap the vehicle's hood safety switch wiring starting where it meets the main vehicle wiring near the ABS Unit. (FIGURE JJ)
- Securely mount (snap-in) the supplied hood safety switch into the bracket and plug the vehicle's pre-fit 2-pin female hood switch connector to the base of the hood safety switch. (FIGURE JJ)
- Install the supplied adhesive backed cable clip to the angled vehicle frame rail approximately 6cm to the left of the hood safety switch mounting bolt. Coil any excess hood safety switch wiring and secure with the cable clip. (FIGURE KK)
- 9. **3.6L (6 Cylinder) vehicles** Using one (1) of the supplied 20cm tie wraps, secure the hood switch harness to the factory wiring. (FIGURE LL)

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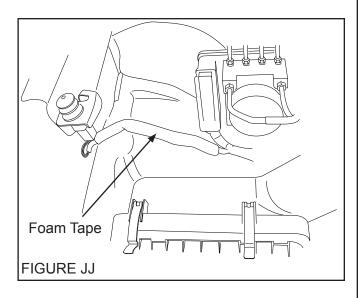
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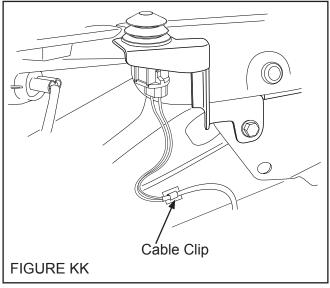
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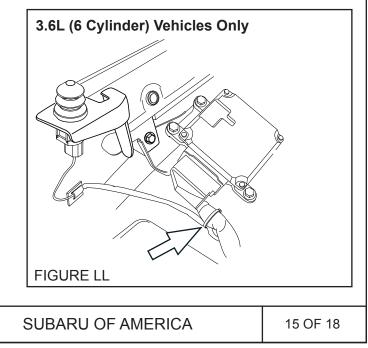
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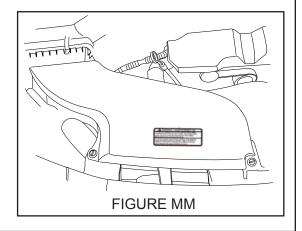






11 UNDER HOOD WARNING LABEL MOUNTING

- 1. Using alcohol, clean the top of the air intake plenum, near the radiator core support.
- 2. Remove the adhesive backing of the underhood warning label and secure to the top of the air intake plenum, as shown. (FIGURE MM)



12 PANEL RE-ASSEMBLY

- 1. Re-install the steering column shroud and secure in place with two (2) Phillips screws.
- Re-install the metal knee bolster and torque the two (2) 10mm bolts to 7.5 Nm +/- 1.8 Nm (0.75 Kgf-m +/- 0.2 Kgf-m, 5.5 ft-lbs +/- 1.0 ft-lbs).
- 3. Plug in any previously removed connectors and re-install the lower dashboard panel.
- 4. Re-install the under dashboard finisher panel
- 5. Re-install the one (1) Phillips screw on the left side of the dashboard that secures the lower dashboard panel in place.
- 6. Re-install the left side dashboard panel. (refer to FIGURE B)
- 7. At the end of the installation, insert the Quick Reference Cards into the Owner's Information Kit.

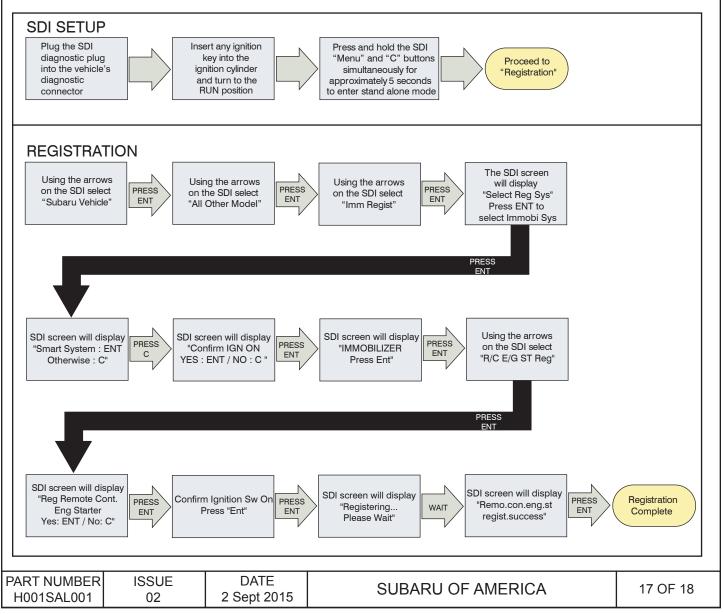
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13 SYSTEM POWER-UP

- 1. After all connections are complete, re-connect the vehicle's negative battery terminal.
- 2. Start the vehicle a minimum of one (1) time using the ignition key prior to activating the remote engine start system. This is required to allow the vehicle electronic systems to re-synchronize.
- 3. With the vehicle running via the ignition key, verify that the instrument cluster airbag light turns off. If the airbag light remains on, refer to the vehicle service information for troubleshooting.
- 4. With the vehicle running via ignition key, apply the brake pedal and shift the transmission out of park. Turn off the engine and confirm the ignition key cannot be removed from the ignition switch. If it can, confirm the key lock solenoid connector is connected and the delivery (test) mode fuse is removed, then re-check.

14 SYSTEM REGISTRATION

NOTE: For registration by DST-i SSM, reference immobilizer registration manual.



5 POST INSTALLATION CHECKLIST

- 1. REMOTE ENGINE START- Make sure the key is removed from the ignition switch, the engine hood is closed and all doors and hatch are closed. Press the START button twice within 3 seconds - The vehicle's parking lights should flash one (1) time, the horn should honk one (1) time and then the vehicle should crank and start. Once started the parking lights will turn on and stay on and the transmitter button will flash 2 times every 5-seconds signifying the vehicle is started.
- 2. SHUT DOWN WITH DOOR OPENING While the vehicle is running under remote engine start, wait at least five (5) seconds and then confirm that all function's (lock, unlock, etc.) operate properly on the FACTORY transmitter. Once FACTORY transmitter functionality is confirmed, press the UNLOCK button on FACTORY transmitter and open any vehicle door. The remote engine starter should shut down and the transmitter button should flash three (3) times indicating the system has shut down.
- 3. ACTIVATION WITH DOOR OPEN Make sure the key is removed from the ignition switch and the engine hood and hatch are closed. Open the driver's door, press the START button twice within 3 seconds - The vehicle's ignition should power momentarily and then shut down and the vehicle's horn should honk and the parking lights should flash a total of six (6) times. The vehicle should not start with any door or hatch opened.

4. BRAKE PEDAL SAFETY - While sitting in the vehicle with all doors, hood and hatch closed, restart the vehicle using the remote engine starter and press the brake pedal. The vehicle should shut off.

- 5. KEY-IN-SENSE While sitting in the vehicle with all doors, hood and hatch closed, insert the ignition key into the ignition switch, but keep it in the off position. Activate the remote engine starter. The vehicle should flash the lights as if it is going to start, but then the horn should honk two (2) times and the remote engine starter does not attempt to start the vehicle since it senses the key in the ignition.
- 6. HOOD SAFETY SWITCH Open the engine hood and activate the remote engine starter. The horn should beep two (2) times signifying that hood safety switch is activated and the vehicle will not start.
- 7. HEATER / AC FUNCTION Insert the ignition key and turn the ignition to the ON position. Preset the vehicle's heater or air conditioning to the ON position. Then, turn the ignition off and remove the ignition key. Activate the remote engine starter and verify that the heater or air conditioning turns on to the preset setting for manual climate controlled vehicles and turns to the "Full Auto" setting for electronic climate control vehicles.
- 8. 15-MINUTE RUN TIME Activate the remote engine starter and allow the system to run for the 15-minute preset run time. The remote engine starter should shut the vehicle off in 15 minutes (+/- 10 seconds).
- 9. TRANSMITTER FUNCTIONALITY VERIFICATION Activate the remote engine starter using both of the supplied single button transmitters.
- 10. With the vehicle running via ignition key, apply the brake pedal and shift the transmission out of park. Turn off the engine and confirm the ignition key cannot be removed from the ignition switch. If it can, confirm the key lock solenoid connector is connected and the delivery (test) mode fuse is removed, then re-check.

FUNCTIONAL TESTING IS NOW COMPLETE.

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