SAFETY RECALL B0J
Intelligent Power Module Transistor Replacement

INVERTER DISASSEMBLY PROCEDURE OUTLINE
- These instructions provide an overview of the disassembly, order for reassembly is reverse
- Torque specifications are critical, confirm all bolts are torqued correctly
- Confirm the IPM transistor is torqued following the correct sequence
- Confirm all safety precautions are followed when working on high voltage components

1. INVERTER COVER
2. MG ECU CONNECTORS
3. PROTECTIVE COVER A
4. AIR CONDITIONER HARNESS
5. SMOOTHING CAPACITOR
6. HIGH VOLTAGE CABLES
7. MO2 BUS BAR
8. MG1 BUS BAR
9. INVERTER BRACKET
10. 4WD ONLY
11. MGR BUS BAR
12. INVERTER CURRENT SENSOR
13. PROTECTIVE COVER B
14. SUB CAPACITOR
15. IPM TRANSISTOR

INVERTER COVER MG ECU CONNECTORS PROTECTIVE COVER A

GREASE APPLICATION PROCEDURE OUTLINE
- Confirm the grease application surface on the NEW IPM transistor is clean before applying grease
- Confirm all original grease inside the inverter case has been completely removed
- If the correct amount of grease is not applied the new IPM, inverter failure may occur
- Knead the tubes of grease before application to confirm the grease is properly mixed

1. Align the notch
2. Two tubes of grease are necessary for each IPM transistor. Apply the first tube to the upper half of the IPM and the second tube to the lower half.
3. Clean all original grease from the inverter using a rag soaked in brake cleaner.
4. Begin on the upper side of the IPM and slide the squeegee down to spread the grease.
5. Slide the squeegee from the bottom of the IPM to the top to completely spread the grease.

After applying the grease you must confirm the grease coverage is sufficient. Use the sample images below to determine the condition of the grease:

CONDITION: Grease is smooth and coverage is complete. Proceed with reassembly.
CONDITION: Grease is not smooth and metal surface of IPM is not visible through grease. Additional grease must be applied.
CONDITION: Metal Surface of IPM is visible through grease. Additional grease must be applied.