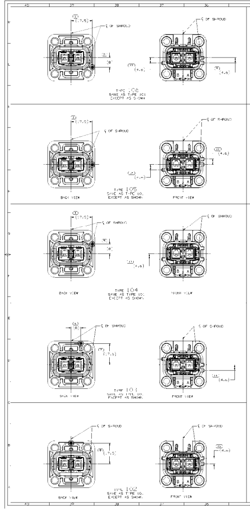
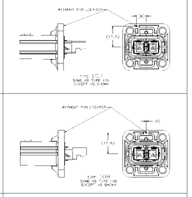
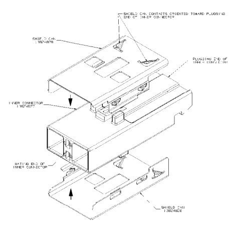




# ADDITIONAL ASSEMBLY INFORMATION

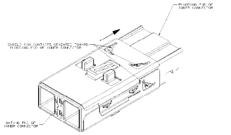
REFER TO VPS# B-249 FOR ADDITIONAL SHIELD CAN ASSEMBLY REQUIREMENTS

ASSEMBLE SHIELD CANS TO INNER CONNECTOR IN CORRECT ORIENTATION AS SHOWN BELOW.

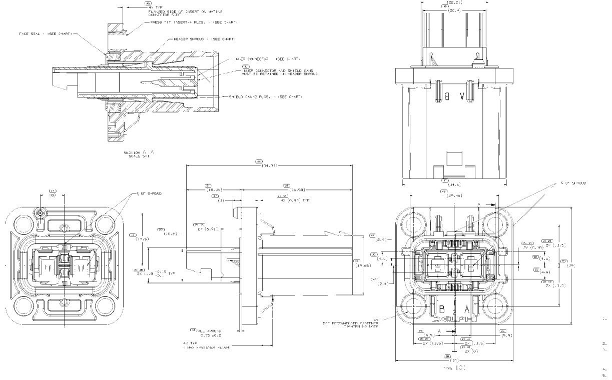


SHIELD CAN CONTACTS ORIENTED TOWARD PLUGGING END OF INNER CONNECTOR
SHIELD CAN 13824828
PLUGGING END OF INNER CONNECTOR
INNER CONNECTOR 13824827
MATING END OF INNER CONNECTOR
SHIELD CAN 13824828

PROPERLY ASSEMBLED SHIELD CANS TO INNER CONNECTOR

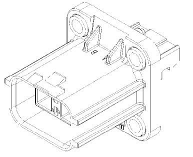


PLUGGING END OF INNER CONNECTOR
SHIELD CAN CONTACTS ORIENTED TOWARD PLUGGING END OF INNER CONNECTOR
MATING END OF INNER CONNECTOR

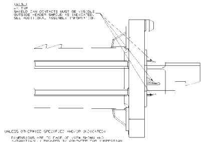


FACE SEAL - (SEE CHART)
PRESS FIT INSERT-4 PLCS. - (SEE CHART)
HEADER SHROUD - (SEE CHART)
INNER CONNECTOR - (SEE CHART)
SHIELD CAN PLCS. - (SEE CHART)
SECTION A-A
℄ OF SHROUD
A
B
TYPE 101

| SYMBOL DEFINITION | | | MISSING SYMBOLS |
|---|---|---|---|
| A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL ( ) DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING. | TOTAL NO. OF INSPECTIONS REQUIRED | 65 | 19, 35 |
| | LAST NO. USED | 57 | |



| DATE | STS | REV | N/P | CHG | ZONE | REVISION HISTORY | AUTH | DR | APPR 1 | APPR 2 |
|---|---|---|---|---|---|---|---|---|---|---|
| [illegible] | R | 01 | - | - | | CREATED PART DRAWING | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 02 | - | - | | ALL PARTS-UPDATED WITH LATEST COMPONENTS | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 03 | - | - | | ADDED SHEET 1 OF 2 | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 04 | - | - | | ALL PARTS-UPDATED WITH LATEST COMPONENTS, ADDED DIMS, ADDED ADDITIONAL ASSEMBLY INFORMATION & MAX FASTENER HEIGHT [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 05 | | | | ALL PARTS-UPDATED WITH LATEST COMPONENTS, ADDED APPEARANCE ITEM/VPS NOTE, ADDED RECOMMENDED TORQUE FOR FASTENERS NOTE, ADDED DISLODGED DURING SHIPPING NOTE & [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 06 | - | - | | ALL PARTS- ADDED [illegible] AND [illegible] TO [illegible] & ADDED EXTRACTION FORCE NOTES. | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 07 | - | - | | ALL PARTS-DIM [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 08 | - | - | | ALL PARTS- ADDED VPS# B-249 REFERENCE TO "ADDITIONAL ASSEMBLY INFORMATION" & ADDED SHIELD CAN ASSEMBLY REQUIREMENTS NOTE. | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 09 | - | - | | ALL PARTS-ADDED CPA UNLOCKING FORCE NOTE AND TPA LOCKING FORCE NOTE. | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 10 | - | - | | ALL PARTS - ADDED NOTES PERTAINING TO SAE/USCAR SPECIFICATIONS. | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 11 | - | - | | ALL PARTS - UPDATED SEAL DISLODGED NOTE | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 12 | | | | [illegible] - RELEASE | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 13 | - | - | | [illegible] - UPDATED PART AVAILABILITY | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 14 | - | - | | 13269933 & 13269934 - RELEASED | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 15 | - | - | | 13269933-34 - UPDATED PART AVAILABILITY | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 16 | | | | ALL PARTS - ADDED ELECTRIC VEHICLE CHARGING AND HIGH DUTY CYCLE APPLICATION NOTE | [illegible] | [illegible] | [illegible] | [illegible] |
| [illegible] | R | 17 | | | | ALL PARTS - CORRECTED ELECTRIC VEHICLE CHARGING AND HIGH DUTY CYCLE APPLICATION NOTE | [illegible] | [illegible] | [illegible] | [illegible] |



4X TYP
SHIELD CAN CONTACTS MUST BE VISIBLE OUTSIDE HEADER SHROUD AS INDICATED. SEE ADDITIONAL ASSEMBLY INFORMATION

1. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED:
   DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS). FOR ALL OTHER DIMENSIONS NOT SHOWN BUT REQUIRED FOR TOOL BUILD, SEE MATH MODEL FOR PRECISE TOOL PATH DATA.
2. FOR MATING CONFIGURATION REQUIREMENTS, SEE PART NUMBER 13832174.
3. THIS PRODUCT IS NOT CATEGORIZED AS AN APPEARANCE ITEM. MINOR IMPERFECTIONS INCLUDING, BUT NOT LIMITED TO, FLOW MARKS, COLOR BLEMISHES, GATE VESTIGE, AND SOFT FLASH THAT DO NO AFFECT THE FIT, FORM OR FUNCTION OF THE PART ARE PERMISSIBLE PER DPNP-4.7-CS-01. VPS# B-244 TAKES PRECEDENCE OVER DPNP-4.7-CS-01 WHERE APPLICABLE.
4. RECOMMENDED FASTENER TIGHTENING TORQUE IS 3.5±0.5 NEWTON-METERS.
5. SEAL RETENTION MEETS THE MINIMUM ACCELERATION REQUIREMENT PER GMW3191 JUNE 2012.
6. HIGH VOLTAGE 280 TERMINAL-CONNECTOR EXTRACTION FORCE (PRIMARY LOCK) IS ≥ 80 N.
7. HIGH VOLTAGE 280 TERMINAL-CONNECTOR EXTRACTION FORCE (PRIMARY & SECONDARY LOCK) IS ≥ 110 N.
8. CPA UNLOCKING FORCE TO PRE-STAGED POSITION IS > 10 N AND < 30 N.
9. TPA LOCKING FORCE WITH TERMINALS IS ≤ 60 N.
10. REFER TO VPS# B-249 FOR ADDITIONAL SHIELD CAN ASSEMBLY REQUIREMENTS.
11. CONNECTION MEETS THE PERFORMANCE REQUIREMENTS OF SAE/USCAR-2 R5 NOVEMBER 2007, SAE/USCAR-37 AUGUST 2008, AND GMW-3191 DECEMBER 2007 FOR THE FOLLOWING CLASSIFICATIONS:
    TEMPERATURE CLASS 3 (-40°C TO +125°C)
    VIBRATION CLASS 1 (ON BODY OR CHASSIS)
    SEALING CLASS 3 (SEALED PLUS HIGH PRESSURE SPRAY)
    MATING CLASS 1 (10 CYCLES)
12. CONNECTION MEETS DIELECTRIC WITHSTAND VOLTAGE RATING OF 600 VOLTS USING THE SAE/USCAR-37 AUGUST 2008 PARAGRAPH 5.5.2 TEST METHOD.
13. FOR APPLICATION DATA SEE THE INDIVIDUAL APPLICATION DRAWINGS.
14. PARTS 13269933 & 13269934 RESTRICTED FOR USE BY FORD ONLY. REFER TO CHART FOR SPECIFIC RESTRICTED PART NUMBERS.
15. ELECTRIC VEHICLE CHARGING AND OTHER HIGH DUTY CYCLE APPLICATIONS CARRYING 32A REQUIRE THE FOLLOWING:
    - MIN 5.0 MM2 COPPER CONDUCTORS.
    - TERMINAL TO CONDUCTOR INTERFACE RESISTANCES ≤ 0.2 mOhms. SOLDERED CRIMPS ARE RECOMMENDED.
    TERMINAL TEMPERATURES NEED TO BE MEASURED IN THE VEHICLE APPLICATION TO INSURE T RISE OVER AMBIENT IS <55 DEG C AT MAXIMUM CONTINUOUS CURRENT.

| PART NO | REV | N/P | RESTRICTED USAGE | TYPE | HEADER SHROUD | INNER CONNECTOR | SHIELD CAN (2 REQ'D) | FACE SEAL | PRESS FIT INSERT-(4 REQ'D) |
|---|---|---|---|---|---|---|---|---|---|
| 13269933 | 01 | AC | RESTRICTED-SEE NOTE 14 | 108 | 33272750 | 13824827 | 13824828 | 13830178 | 33211751 |
| 13269934 | 01 | AC | RESTRICTED-SEE NOTE 14 | 107 | 33272751 | 13824827 | 13824828 | 13830178 | 33211751 |
| ~~13240611~~ | 01 | AB | | 106 | 13830169 | 13824827 | 13824828 | 13830178 | 33211751 |
| ~~13240612~~ | 01 | AB | | 105 | 13830168 | 13824827 | 13824828 | 13830178 | 33211751 |
| ~~13240611~~ | 01 | AB | | 104 | 13830167 | 13824827 | 13824828 | 13830178 | 33211751 |
| ~~13240610~~ | 01 | AB | | 103 | 13830166 | 13824827 | 13824828 | 13830178 | 33211751 |
| 13240609 | 01 | AC | | 102 | 13830165 | 13824827 | 13824828 | 13830178 | 33211751 |
| 13240608 | 01 | AC | | 101 | 13824829 | 13824827 | 13824828 | 13830178 | 33211751 |
| ~~13830725~~ | 03 | AF | | 106 | 13830169 | 13824827 | 13824828 | 13830178 | 13824967 |
| ~~13830724~~ | 03 | AF | | 105 | 13830168 | 13824827 | 13824828 | 13830178 | 13824967 |
| ~~13830723~~ | 03 | AF | | 104 | 13830167 | 13824827 | 13824828 | 13830178 | 13824967 |
| 13830722 | 03 | AF | | 103 | 13830166 | 13824827 | 13824828 | 13830178 | 13824967 |
| 13830721 | 03 | AF | | 102 | 13830165 | 13824827 | 13824828 | 13830178 | 13824967 |
| 13824830 | 03 | AF | | 101 | 13824829 | 13824827 | 13824828 | 13830178 | 13824967 |

THIRD ANGLE PROJECTION

DO NOT SCALE

USE MATH DATA

NX

PART DRAWING

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE IN MILLIMETERS

**DELPHI**

DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE

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| | | DATE |
|---|---|---|
| DR | | |
| APPR1 | L. JONES | 02JUN10 |
| APPR2 | L. JONES | 23JUN10 |
| APPR3 | [illegible] | 24JUN10 |

SEE DRAWINGS

[illegible] ASM CONN 4 WAY CTS
150 W/P 280 H/VOLTAGE

13830176

| SIZE | SCALE | FRAME NO | SHEET NO | STS | REV |
|---|---|---|---|---|---|
| A1+5 | 5:1 | 1 OF 3 | 1 OF 2 | R | 17 |

13830176

13830176

13830176