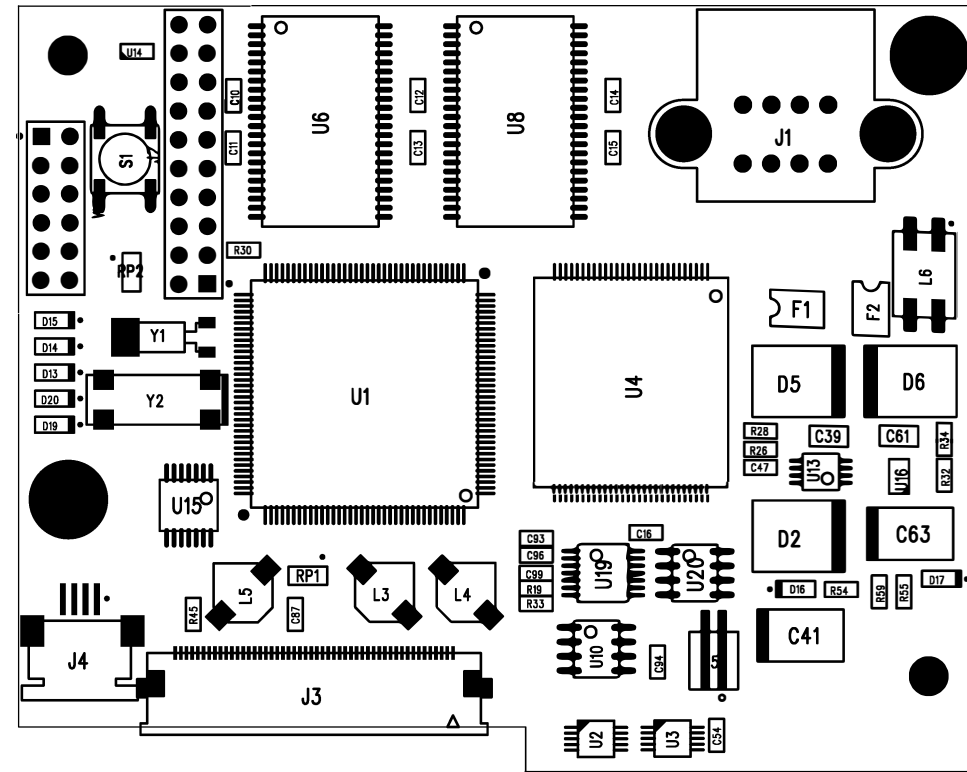


NOTES:

1. ASSEMBLY WORKMANSHIP MUST CONFORM TO ANSI/IPC-A-610 AND IPC/EIA J-STD-001, LATEST REVISIONS.
2. REFER TO ARENA PLM BOM 09-000040-01, LATEST REVISION, FOR ITEM NUMBER DESCRIPTIONS.
3. FOR SCHEMATIC, REFER TO 09-000040-01, LATEST REVISION.
4. FOR SOLDER PASTE, USE 09-000040-PT.PHO (TOP SIDE), 09-000040-PB.PHO (BOTTOM SIDE) LATEST REVISION.
5. ALL MARKINGS MUST CONFORM TO TESLA MOTORS SPECIFICATION, TBD, LATEST REVISION.
6. ALL THROUGH HOLE COMPONENT LEAD PROTRUSIONS MUST BE TRIMMED AND ARE NOT TO EXCEED 1MM (0.040 IN).
7. PLACE ASSEMBLY LABEL APPROX. WHERE SHOWN. REFER TO BOM FOR DETAILS.
8. SOLDER:
 - ALL SOLDER MATERIALS USED ON THIS ASSEMBLY MUST BE APPROVED BY TESLA MOTORS.
 - REWORK SOLDER AND FLUX MUST BE COMPATIBLE WITH A NO-CLEAN SMT PROCESS.
 - ALL SOLDER WIRE USED FOR REWORK SHALL HAVE A NON-CORROSIVE, NON-CONDUCTIVE FLUX.
 - ALL FLUX USED FOR REWORK SHALL BE NON-CORROSIVE, NON-CONDUCTIVE.
9. CLEANLINESS:
 - EXCEPT WHERE NO-CLEAN SOLDER IS USED, AN ACCEPTABLE AQUEOUS CLEANING PROCESS SHALL BE USED.
 - ALL REWORK SHALL BE SPOT CLEANED EXCEPT WHERE NO-CLEAN SOLDER IS USED.
10. ENSURE CONNECTOR HOLES ARE FULLY FLOODED WITH SOLDER.
- R** 11. ALL MATERIALS AND COATINGS MUST COMPLY WITH EU DIRECTIVE 2000/53/EC (ELV DIRECTIVE).
- R** 12. THIS COMPONENT HAS BEEN DESIGNED TO COMPLY WITH A REGULATORY REQUIREMENT. CONTACT TESLA TYPE APPROVAL BEFORE UNDERTAKING DESIGN MODIFICATIONS. A COMPONENT WHICH EMBODIES ALL REQUIREMENTS STATED ON THIS DRAWING WILL COMPLY WITH THE REGULATORY REQUIREMENTS.



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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS AND APPLY AFTER PLATING.
ALL MACHINED SURFACES AMERICAN STANDARD FINISH. 16-32

TOLERANCES ARE:
 ANGLES ± 0.5 °
 FRACTIONS ± ---
 X DECIMAL ± 1
 X.X DECIMAL ± 0.3
 X.XX DECIMAL ± 0.10

Tesla Motors Inc.

ORIGINATOR: _____ ITEM NAME: **ASSEMBLY, TOP VEHICLE DISPLAY CONTROLLER**

CHECKED BY: _____ DATE: _____ ITEM NO. _____ REVISION: _____

ENG APPVL: _____ DATE: _____

DO NOT SCALE DRAWING SHEET 1 OF 2

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Project:

Lifecycle:

NOTES:

The diagram shows a detailed PCB layout for the bottom assembly of a vehicle display controller. Key components include two large ICs (U9 and U5), a microcontroller (U7), a display driver (U11), and a display panel (U18). It also features numerous passive components like resistors (R1-R66), capacitors (C1-C110), and inductors (L1, L2). Connectors for display panels (D12, D18) and other modules (C42, C3) are also shown. The layout is organized with component footprints and labels distributed across the board.

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AND APPLY AFTER PLATING.
ALL MACHINED SURFACES AMERICAN
STANDARD FINISH. 16-32

TOLERANCES ARE:
ANGLES ± 0.5 °
FRACTIONS ± ---
X DECIMAL ± 1
X.X DECIMAL ± 0.3
X.XX DECIMAL ± 0.10

Two geometric symbols: a circle with a crosshair representing a hole, and a trapezoid representing a chamfer.

Tesla Motors Inc.

ORIGINATOR:

ITEM NAME:

ASSEMBLY, BOTTOM
VEHICLE DISPLAY CONTROLLER

DATE

ITEM NO.

ENG APPVL

DATE

DO NOT SCALE DRAWING

SHEET 2 OF 2

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