

REVISION HISTORY - ALL SHEETS ARE THE SAME REVISION STATUS		
REV	ZONE	DESCRIPTION
A		RELEASE FOR PRODUCTION C.HINOJOSA 03-23-07

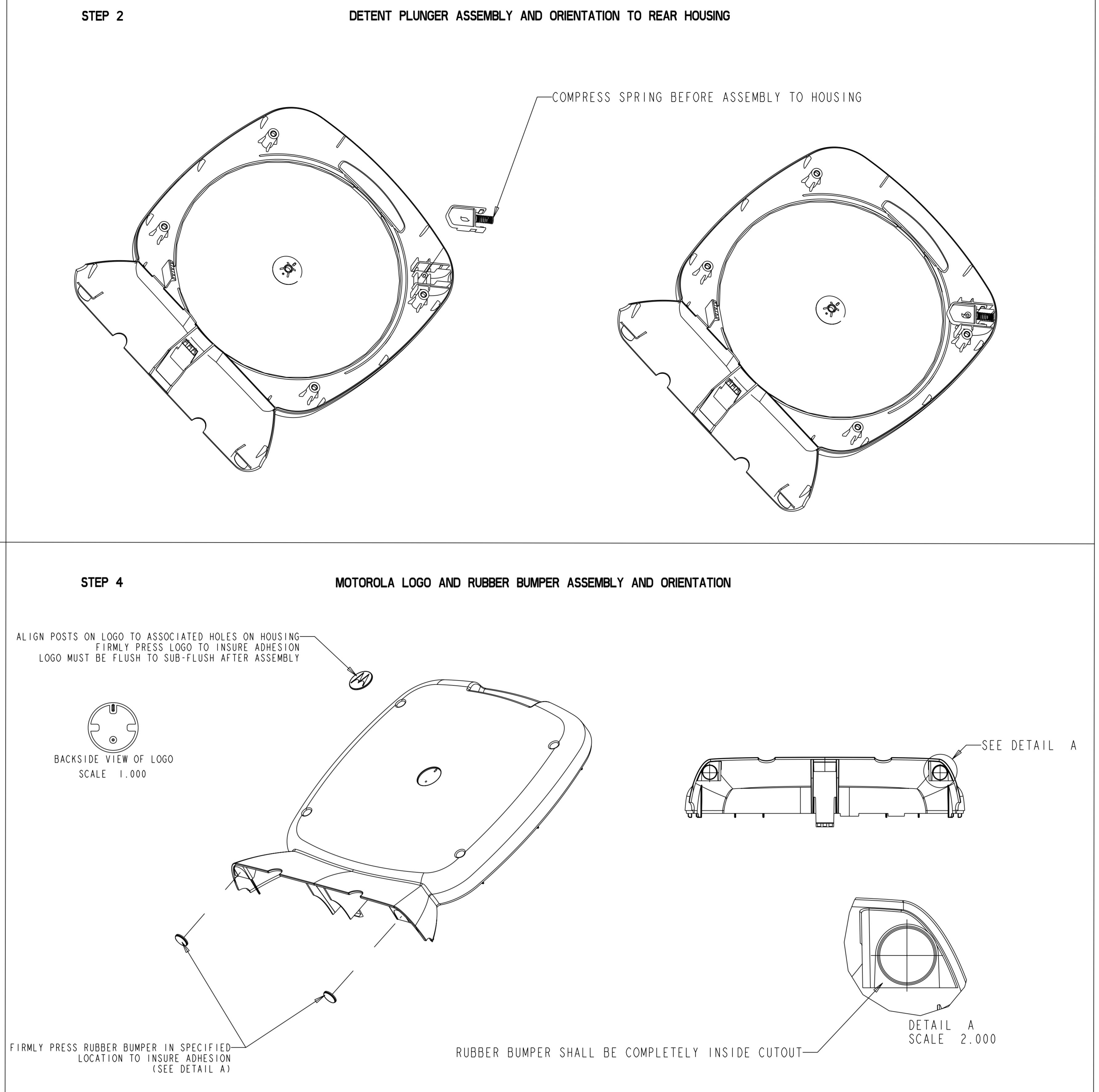
W.I.P.

NOTES:

- I. DESCRIPTION & APPLICATION
 - A. TOP LEVEL PCB ASSEMBLY FOR USE IN CANOPY WIRELESS SYSTEMS OVER A TEMPERATURE RANGE OF -40C TO +85C IN AN INDOOR / OUTDOOR ENVIRONMENT.
- II. APPLICABLE DOCUMENTS
 - A. 12G02897W18 CONTROLLED AND REPORTABLE MATERIALS DISCLOSURE
 - B. 12G13933A01 MOTOROLA RECEIVING BAR CODE SPECIFICATION
 - C. 12M09162444 MOTOROLA SUPPLIER CORRECTIVE ACTION REQUEST PROCEDURE
 - D. 12M80957B70 MOTOROLA TOOLING APPROVAL AND CONSTRUCTION
 - E. 12M80967A78 MOTOROLA SUPPLIER MATERIAL QUALITY CONTROL
 - F. 12S10601A MOTOROLA SUPPLIER PACKAGING SPECIFICATION
- III. MATERIALS
 - A. ASSEMBLY SHALL CONSIST OF PARTS INDICATED IN ATTACHED TABLE.
- IV. CHARACTERISTICS
 - A. WORKMANSHIP: CARE MUST BE TAKEN DURING ASSEMBLY AS NOT TO DAMAGE THE ORIGINAL PIECE PARTS.
 - B. PARTS SHALL BE CLEAN AND FREE FROM FLASH AND FROM ALL FOREIGN MATERIAL.
 - C. ALL DIMENSIONS SHOWN MUST BE WITHIN TOLERANCES SPECIFIED.
 - D. ENVIRONMENTAL:
 - 1. OPERATING TEMPERATURE RANGE: -40C TO +85C
 - 2. OPERATING HUMIDITY RANGE: 10% RH TO 80% RH
 - 3. STORAGE TEMPERATURE RANGE: -40C TO +85C
- V. QUALITY CONTROL REQUIREMENTS
 - A. WHERE THERE IS A CONFLICT BETWEEN THE PRINT NOTES AND AN APPLICABLE DOCUMENT NOTE, THE PRINT NOTE SUPERSEDES.
 - B. PARTS PRODUCED FROM A PRODUCTION PROCESS FLOW SHALL BE SUBMITTED FOR QUALIFICATION WITH DATA FOLLOWING THE GUIDELINES IN MOTOROLA SPECIFICATION 12M80967A78, SUPPLIER MATERIAL QUALITY CONTROL STANDARD, AND THE SUPPLIER MUST SUBMIT A MARK-UP DRAWING SHOWING THE SERIALIZED MEASURED PART DIMENSIONS NEXT TO THE CORRESPONDING PRINT DIMENSIONS PER MOTOROLA STANDARD 12M80957B70. MINIMAL DATA REQUIREMENTS ARE (i) MEASUREMENTS ON THIRTY-FIVE (35) SERIALIZED SAMPLES, FROM EACH CAVITY, FOR EACH PARAMETER DENOTED AS PROCESS CONTROL ALONG WITH A PROCESS CAPABILITY STUDY ($C_p > 2.0$, $C_{pk} > 1.5$), (ii) MEASUREMENTS ON FIVE (5) SERIALIZED PARTS, FROM EACH CAVITY, FOR ALL OTHER PARAMETERS/DIMENSIONS DENOTED ON THE PRINT, AND (iii) DOCUMENTATION OF CONFORMANCE TO ALL NOTES IN THIS SPECIFICATION AS WELL AS ANY TESTS SPECIFIED IN THE SUPPORTING DOCUMENTS (e.g. PLATING THICKNESS, HARDNESS, GRAPHICS WEAR TEST, ETC.). MOTOROLA MAY ADD PROCESS CONTROL PARAMETERS LATER, IF THE NEED ARISES. DIMENSIONS DENOTED WITH THE SYMBOL " $<S>$ " REQUIRE C_p/C_{pk} DATA FOR PART QUALIFICATION/FIRST ARTICLE SUBMISSIONS ONLY. A " $<S> = ALL$ " DENOTES THAT C_{pk} DATA IS REQUIRED ON ALL PARAMETERS FOR PART QUALIFICATION/FIRST ARTICLE SUBMISSIONS ONLY.
 - C. PRODUCTION LOT DATA AS DESCRIBED IN MOTOROLA SPECIFICATION 12M80967A78, SUPPLIER MATERIAL QUALITY CONTROL STANDARD, SECTION VI-B, SHOULD BE SUPPLIED WITH PRODUCTION LOTS UNTIL THREE (3) CONSECUTIVE SHIPMENTS DEMONSTRATING A C_{pk} OF 1.5 OR GREATER FOR ALL PROCESS CONTROL DIMENSIONS, HAS BEEN ACHIEVED, AND NO SCAR'S FROM MOTOROLA RELATED TO ANY ISSUE WITH THIS PART EXIST. FUTURE LOTS WILL THEN NO LONGER REQUIRE DATA SHIPPED WITH SUPPLIED MATERIAL. HOWEVER, THE SUPPLIER MUST CONTINUE TO GENERATE THE DATA AND MAINTAIN IT ON FILE FOR MOTOROLA REVIEW FOR A MINIMUM PERIOD OF 2 YEARS.
 - D. IF THE C_{pk} VALUE ON ANY DEFINED PROCESS CONTROL PARAMETER SHOULD FALL BELOW 1.5 AT ANY TIME DURING THE MANUFACTURE OF THIS PART, THEN THE SUPPLIER MUST 100% SCREEN ALL PARTS TO THOSE SPECIFIED PARAMETERS. MOTOROLA SUPPLIER QUALITY ENGINEERING IS TO BE NOTIFIED IF SUCH A CONDITION EXISTS. THIS SHOULD BE DONE THROUGH THE USE OF A CORRECTIVE ACTION RESPONSE FORM USING THE 8D FORMAT. AN INITIAL NOTIFICATION SHOULD BE SUBMITTED NO MORE THAN 12 HOURS AFTER PROBLEM HAS BEEN IDENTIFIED, STATING THE IMMEDIATE CONTAINMENT ACTION. AFTER ANALYSIS OF ROOT CAUSE OF DISCREPANCY, A PLAN DEFINING PERMANENT CORRECTIVE ACTION SHALL BE SUBMITTED WITH SAMPLES AND SUPPORTING DATA TO MOTOROLA QUALITY ENGINEERING FOR APPROVAL.

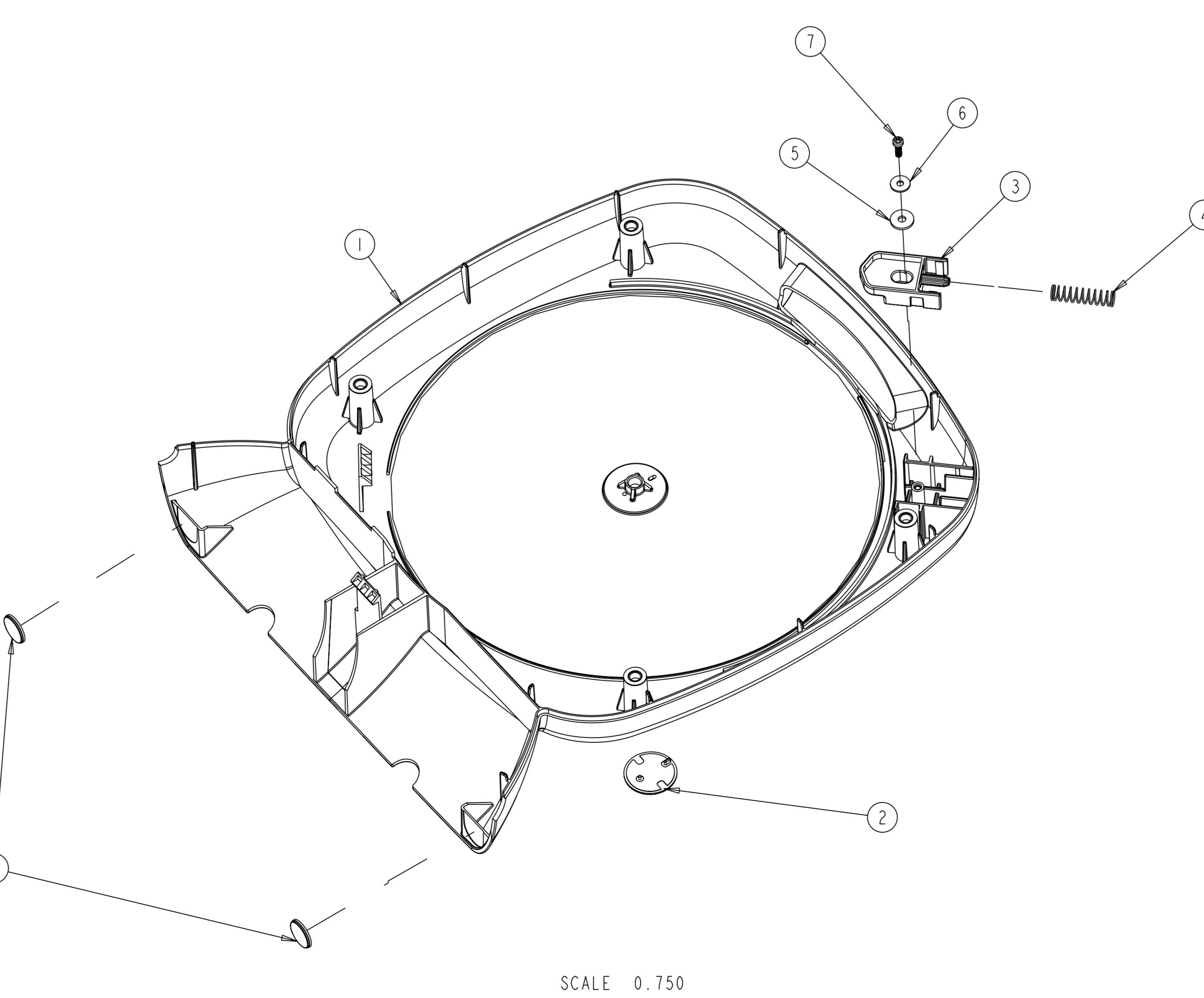
- VI. PACKAGING REQUIREMENTS
 - A. PARTS ARE TO BE PACKAGED SO AS TO PREVENT DAMAGE IN SHIPMENT AND HANDLING AND MEET MOTOROLA STANDARD 12S10601A.
 - B. PACKAGE LABELING MUST MEET THE MOTOROLA RECEIVING BAR CODE LABEL SPECIFICATION 12G13933A01 REQUIREMENTS. IDENTIFICATION BY DATE CODE IS ALSO REQUIRED.

- VII. SUPPLIER REQUIREMENTS
 - A. NO CHANGES SHALL BE ALLOWED ON PRODUCTION MATERIALS, PROCESSES, OR MANUFACTURING LOCATIONS, REGARDLESS OF WHETHER SUCH CHANGES AFFECTS CHARACTERISTICS SPECIFIED, WITHOUT PRIOR EXPLICIT WRITTEN APPROVAL BY MOTOROLA'S DEVELOPMENT, QUALITY, AND PURCHASING DEPARTMENTS. SUPPLIER MUST REQUEST A "SUPPLIER REQUEST FOR ENGINEERING APPROVAL" FORM AS IDENTIFIED IN MOTOROLA SPECIFICATION 12M80967A78, SECTION 3.
 - B. IT IS THE SUPPLIER'S RESPONSIBILITY TO PROVIDE MOTOROLA COMPONENT ENGINEERING, DEVELOPMENT ENGINEERING, AND SUPPLIER QUALITY ENGINEERING WITH PROOF OF COMPLIANCE TO ALL DIMENSIONS PER NOTES IV, AND TO ALL SPECIFICATIONS CONTAINED IN THIS DRAWING.
 - C. PRIOR TO PART QUALIFICATION, THE SUPPLIER MUST DISCLOSE ANY CONTROLLED AND REPORTABLE MATERIALS IN THEIR PRODUCT AS INDICATED IN MOTOROLA DOCUMENT 12G02897W18 (SEE APPLICABLE DOCUMENTS SECTION). SUPPLIERS ARE REQUIRED TO SUBMIT DISCLOSURES OF CONTROLLED AND REPORTABLE MATERIALS USING THE ELECTRONIC TOOL REFERENCED IN THE 12G02897W18 DOCUMENT CALLED "AIAG" COMPLIANCE CONNECT. THE ELECTRONIC TOOL ALONG WITH USER GUIDE AND TRAINING MATERIAL CAN BE DOWNLOADED FROM: <http://www.motorola.com/EHS/environment/supplier/disclosure.html>. APPENDIX C, SECTION 2: EU/CHINA COMPLIANCE ACCEPTANCE CRITERIA AS INDICATED IN 12G02897W18 SHALL APPLY.



ITEM #	MOTOROLA P/N	DESCRIPTION	QTY.
	0114705B01	ASSY, BACK HOUSING	
1	1588999D01	HOUSING, BACK	1
2	1389011D01	MEDALLION, M LOGO	1
3	5589387D01	PLUNGER, DENTENT, 900 INDOOR	1
4	4189951D01	SPRING, DETENT MECHANISM	1
5	0489943D01	PTFE WASHER 0.124 x .375	1
6	0489946D01	WASHER, FENDER, ID, 2.5mm	1
7	0389970D01	SCREW, DELTA PT 25 x 8 mm	1
8	7589955D01	BUMPER, RUBBER, 12.7mm x 1.5 mm HIGH	2

0114705B01	ASSY, BACK HOUSING	ACTIVE	C114
MOTOROLA P/N	DESCRIPTION	P/N STATUS	PRODUCT ID
TABLE I: MODEL INFORMATION			



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SCALE 0.500						