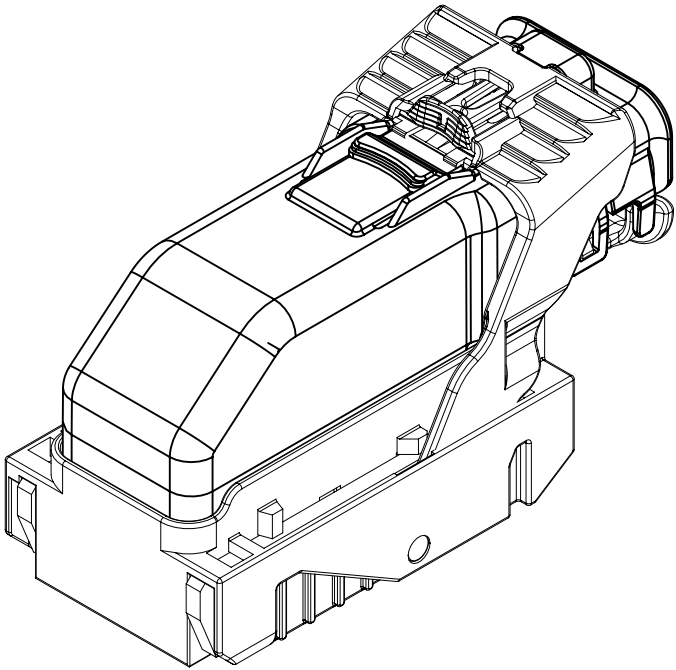


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ISO VIEW

		UNLESS OTHERWISE SPECIFIED: THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM-1997. ALL GEOMETRIC TOLERANCES AND RELATED DATUMS APPLY RFS. RULE #1 (PERFECT FORM AT MMC) DOES NOT APPLY WHEN A RELATIONSHIP BETWEEN FEATURES IS ESTABLISHED BY ORIENTATION OR LOCATION TOLERANCES. SEPARATE POSITION CALLOUTS MAY BE GAGED SEPARATELY REGARDLESS OF DATUM REFERENCES.			DATE			
		REFERENCE 12H (MOLEX AUTOMOTIVE)		DRAFTER		05JN15		
APVD1								
APVD2								
APVD3								
APVD4								
 CHANGE RESTRICTED NO MANUAL CHANGES		APVD5						
DO NOT SCALE		DRAWING NAME HARNESS CONN ASM-SEALED 52/66/73/80 CKTS,MX123						
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED								
		DRAWING NUMBER 12672833		DWG STATUS			PAGE NUMBER 1 OF 22	
				ST REV PDI				
				R 001				

				KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR QN 1050)						
				SAFETY/COMPLIANCE FIT/FUNCTION			TOTAL ON DRAWING		4	
							LAST NO. USED		4	
				NO	TYPE	DESCRIPTION		RATIONALE		PAGE/ZONE
				1	F/F	32.68		IMPROVE CONNECTOR SYSTEM MATING		16
2	F/F	29.00		INSURE PROPER RELEASE OF LEVER		16				
3	F/F	15.25		INSURE FINAL MATE POSITION		17				
4	F/F	POSITIONAL TOLERANCE (2 PLACES)		INSURE CONNECTOR SYSTEM MATEABILITY		20				
GM		PAGE TITLE KPC BLOCK				DRAWING NUMBER		PAGE NUMBER		
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					APPLICABLE COMPONENTS								
LINE	MFG.	MFG. P/N	GM P/N	EFFECTIVE DATE	DESCRIPTION	KEY OPTION	WIRE DRESS OPTION	KEY CONFIG.	COLOR	STATUS			
-													
1	MOLEX	34565-0003	12582676	02JN03	MX123 DRESS COVER 52/66/73/80 CKT	N/A	N/A	N/A	BLACK	AVAILABLE			
2	MOLEX	160094-0001	12672852	01SP13	MX123 HRNS CONN ASSY 52 CKT	A	0	1458	BLACK	AVAILABLE			
3	MOLEX	160094-0003	12672854	01SP13	MX123 HRNS CONN ASSY 52 CKT	C	0	2467	BLUE	AVAILABLE			
4	MOLEX	160094-0013	12672853	01SP13	MX123 HRNS CONN ASSY 52 CKT	A	9	1458	BLACK	AVAILABLE			
5	MOLEX	160094-0015	12672855	01SP13	MX123 HRNS CONN ASSY 52 CKT	C	9	2467	BLUE	AVAILABLE			
6	MOLEX	34822-0013	12672856	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	0	1458	BLACK	AVAILABLE			
7	MOLEX	34822-0033	12672858	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	0	2467	BLUE	AVAILABLE			
8	MOLEX	34822-0023	12672857	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	9	1458	BLACK	AVAILABLE			
9	MOLEX	34822-0043	12672859	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	9	2467	BLUE	AVAILABLE			
10	MOLEX	34566-0103	12672860	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	0	1458	BLACK	AVAILABLE			
11	MOLEX	34566-0203	12672862	11JN04	MX123 HRNS CONN ASSY 73 CKT	B	0	1468	ST GRAY	AVAILABLE			
12	MOLEX	34566-0303	12672864	09AP08	MX123 HRNS CONN ASSY 73 CKT	C	0	2467	BLUE	AVAILABLE			
13	MOLEX	34566-0603	12672866	05DC14	MX123 HRNS CONN ASSY 73 CKT	F	0	1357	NATURAL	AVAILABLE			
14	MOLEX	34566-1303	12672861	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	9	1458	BLACK	AVAILABLE			
15	MOLEX	34566-1403	12672863	11JN04	MX123 HRNS CONN ASSY 73 CKT	B	9	1468	ST GRAY	AVAILABLE			
16	MOLEX	34566-1503	12672865	09AP08	MX123 HRNS CONN ASSY 73 CKT	C	9	2467	BLUE	AVAILABLE			
17	MOLEX	34566-1803	12672867	05DC14	MX123 HRNS CONN ASSY 73 CKT	F	9	1357	NATURAL	AVAILABLE			
18	MOLEX	34566-0703	12672872	09AP08	MX123 HRNS CONN ASSY 80 CKT	G	0	1358	BLUE	AVAILABLE			
19	MOLEX	34566-0803	12672870	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	0	2458	ST GRAY	AVAILABLE			
20	MOLEX	34566-0903	12672868	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	0	2457	BLACK	NOT ACTIVE			
21	MOLEX	34566-1903	12672873	09AP08	MX123 HRNS CONN ASSY 80 CKT	G	9	1358	BLUE	AVAILABLE			
22	MOLEX	34566-2003	12672871	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	9	2458	ST GRAY	AVAILABLE			
23	MOLEX	34566-2103	12672869	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	9	2457	BLACK	NOT ACTIVE			
24	MOLEX	34736-0028	12672851	01AU10	MX64 RCPT TERM Ag 0.5mm/0.75mm ISO GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE			
25	MOLEX	34736-0026	12672850	01AU10	MX64 RCPT TERM Ag 0.35mm ISO GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE			
26	MOLEX	34586-0001	12674820	11JN04	MX123 0.64mm GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE			
27	YAZAKI	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 0.35mm2-0.50mm2	N/A	N/A	N/A	N/A	NOT ACTIVE			
28	YAZAKI	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 0.75mm2-1.0mm2	N/A	N/A	N/A	N/A	NOT ACTIVE			
29	YAZAKI	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 1.5mm2-2.5mm2	N/A	N/A	N/A	N/A	AVAILABLE			
30	YAZAKI	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.2mm-1.9mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE			
31	YAZAKI	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.8mm-2.3mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE			
32	YAZAKI	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.1mm-3.0mm)	N/A	N/A	N/A	WHITE	AVAILABLE			
33	YAZAKI	7158-3114-90	12674821	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE			
34	MOLEX	63825-8400	N/A	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE			
35	MOLEX	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE			
36	MOLEX	63902-5300	N/A	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 0.5/0.75mm2 PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE			
37	MOLEX	63902-5370	N/A	02JN03	MX64 APPLICATOR TOOL KIT 0.5/0.75mm2	N/A	N/A	N/A	N/A	AVAILABLE			
38	MOLEX	63902-5100	N/A	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 0.35mm2 PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE			
39	MOLEX	63902-5170	N/A	02JN03	MX64 APPLICATOR TOOL KIT 0.35mm2	N/A	N/A	N/A	N/A	AVAILABLE			
40	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE			
41	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE			
42	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE			
43	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE			
44	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE			
45	TQI	7000-1006	N/A	15JN15	52 CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE			
46	TQI	7000-1002	N/A	15JN15	66 CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE			
47	TQI	79917-0061	N/A	15JN15	73 CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE			
48	TQI	79917-0066	N/A	15JN15	80 CKT PASS THROUGH ADAPTERS	N/A	N/A	N/A	BLACK	AVAILABLE			
* - MX123 DRESS COVER 52/66/73/80 CKT MATES TO ANY MX123 HARN CONN ASSY SHOWN ON TABLE ABOVE													
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		COMPONENT TABLE							ST	REV	PD1		
									R	001			

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL FOR INTERFACE:

- A. RESIN:
 - 1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND.
 - 2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY.
 - 3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS.
- B. 0.64MM PINS:
 - 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.
 - 2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
 - 3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).
- C. 2.8MM BLADE:
 - 1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.
 - 2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 µm ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
- D. PLATING REQUIREMENTS:
 - 1. SILVER PLATING
 - a. 99.5% PURE SEMI-BRIGHT WITH NO ORGANIC BRIGHTNERS OR CHROMATES.
 - 2. NICKEL PLATING
 - a. ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL WITH A NON-BRIGHTENED FINISH. NO ORGANIC OR BRIGHTENING AGENTS SHALL BE ALLOWED.
 - b. SHALL ONLY BE USED AS AN UNDERLYING PLATING AND MAY NOT BE USED AS AN ELECTRICAL CONTACT SURFACE PLATING.
 - c. SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA.
 - d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT.
 - 3. TESTING
 - a. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF).
 - b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571.
2. DESIGN - GENERAL:
- A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

B. TOLERANCES:
 - 1. LINEAR
 - 0.X ± 0.30
 - 0.XX ± 0.10
 - 0.XXX ± 0.10
 - 2. ANGULAR X° ± 3°
 - 3.

	1.0	A	B	C
---	-----	---	---	---

C. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.

D. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.

E. LETTERING SHALL BE 0.15 MAX RAISED IN 0.20 MAX RECESS PAD. THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE.

F-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION.

F-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH.

G. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP
 - 1. MATERIAL #: XXXXX-XXXX
 - 2. DATE CODE: JJJY (JULIAN DAY, LAST DIGIT OF YEAR)
 - 3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX
3. DESIGN - MANUFACTURING:
- A. DRAFT TO BE WITHIN TOLERANCE.

B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK.

C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX.

D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED.

E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION.

F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.

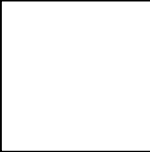
G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.

H. ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE IT'S ELECTRICAL PERFORMANCE UP TO A MAXIMUM CLASS AMBIENT TEMPERATURE PER SAE USCAR-2 FOR 1008 HOURS. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.

J. OPTIONAL FEATURES PROVIDED FOR AUTOMATION.

K. PART MUST BE FREE FROM BURRS AND SHARP EDGES, WHICH MIGHT BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING OR FUNCTION OF PART.

L. PARTS AS DELIVERED TO ASSEMBLY SHALL BE CLEAN AND FREE OF DEBRIS, RESIDUAL ABRASIVE MATERIAL AND CORROSION PRODUCTS ADVERESLY AFFECTING FUNCTION OR APPEARENCE.

M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.
- | | | | | | | | | |
|---|------------|---|----------------|------------|-----|-----|-------------|-------|
|  | PAGE TITLE |  | DRAWING NUMBER | DWG STATUS | | | PAGE NUMBER | |
| | NOTES | | | ST | REV | PDI | 6 | OF 22 |
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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING ISO WIRE SIZE NO'S:
0.35mm2, MEETING GMW15626 - MIN OD OF 1.30MM
0.50mm2, MEETING GMW15626
0.75mm2, MEETING GMW15626 - MAX OD OF 2.06MM
- B. CABLE TIE SPECIFICATIONS:
1. CABLE TIE:
TENSILE RATING: 220N / (50lbs) MIN
TIE LENGTH: 186mm MIN
TIE WIDTH: 4.75mm MAX
MATERIAL: NYLON
2. INSTALLATION:
CABLE TIE TENSION: 190N MIN
3. DRESSED WIRE BUNDLE PACKAGING: SEE FIG. 1
- C. WHEN MATED WITH COMPONENT CONNECTOR INTERFACE AND/OR DRESS COVER, HARNESS CONNECTOR SYSTEM CONFORMS TO THE FOLLOWING:
1. SAE/USCAR-2, REV: 3 APRIL, 2001; CLASS 3
2. FIELD CORRELATED LIFE TEST, SAE/USCAR-20, NOV. 2001
3. GMW #3191 AUGUST 22, 2000 (DRAFT); TEMPERATURE CLASS 3, SEALING CLASS 1, VIBRATION CLASS 2
4. RESTRICTED AND REPORTABLE CHEMICALS PER GMW #3059, REV: D AUGUST 2002
5. TPA USER FORCES (FULLY POPULATED WITH TERMINALS)
a. REMOVAL FROM LOCK TO PRE-SET: <=120N
- D. WIRE SPECIFICATIONS:
1. WIRE SURFACE MUST BE FREE OF SCRATCHES, GROOVES OR DENTS WHERE FUNCTIONAL

5. TERMINAL CURRENT RATINGS:

- A. MX64 RCPT TERM
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

1. MX64 RCPT TERM Ag 0.50/0.75mm2 CRIMPED TO 0.75mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW
2. MX64 RCPT TERM Ag 0.35mm2 CRIMPED TO 0.35mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW

WIRE	CURRENT RATING			
	23°C	85°C	105°C	125°C
0.75mm2	11.3A	11.3A	9.5A	6.6A
0.50mm2	10.0A	10.0A	8.3A	5.7A
0.35mm2	8.5A	8.5A	7.1A	5.0A

- B. 2.8MM RCPT TERM
ALL TESTING DONE IN ACCORDANCE WITH MOLEX DVP&R 0279 (TR # 7125)

1. 2.8MM RCPT TERM TIN 2.0mm2 CRIMPED TO 2.0mm2 ISO WIRE AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS AT 125° C

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS - SEE GM DRAWING 13507496

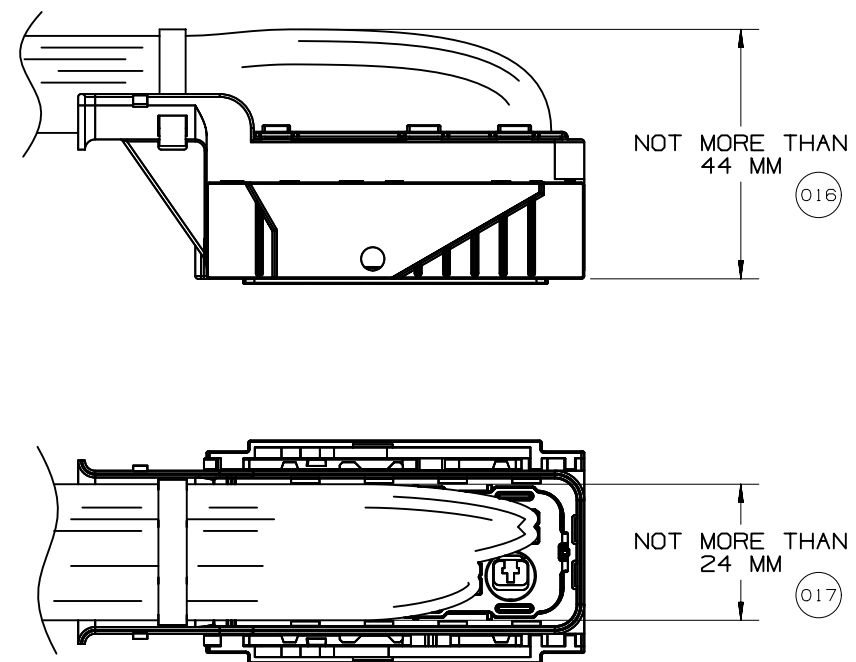
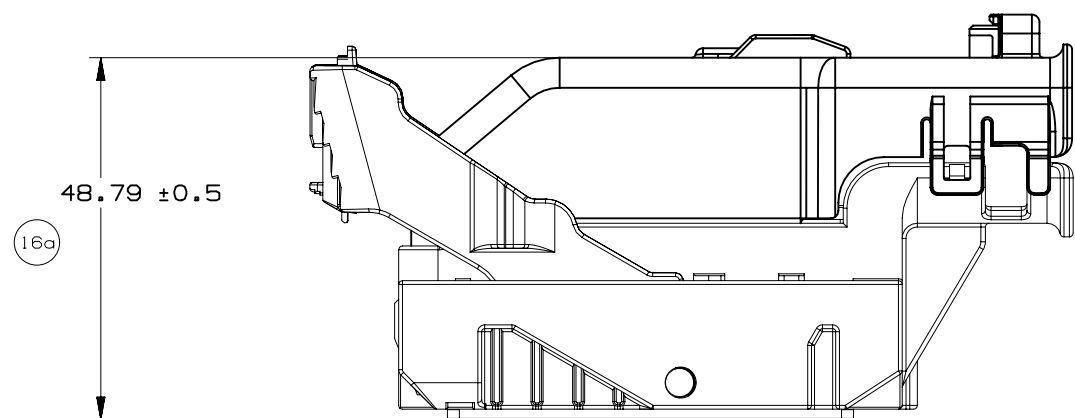
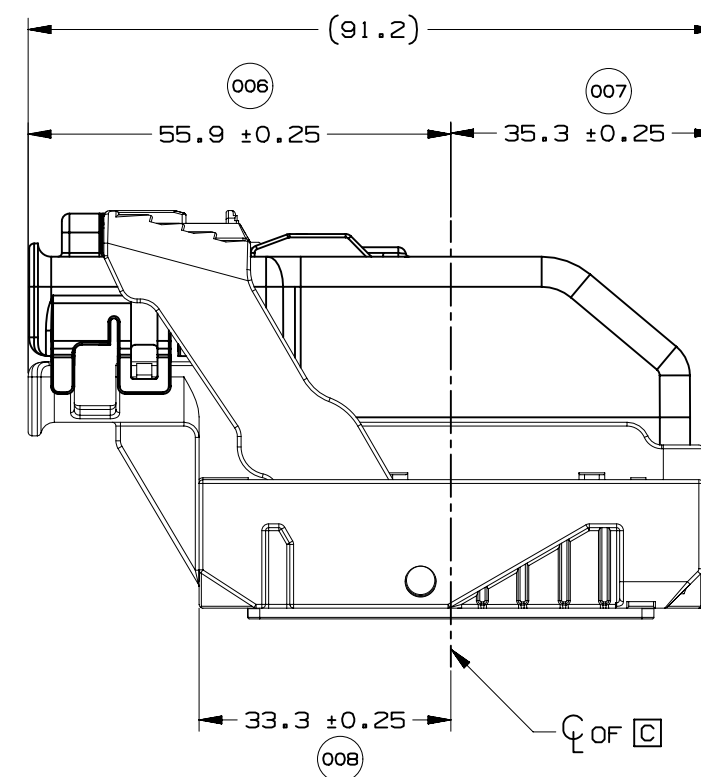
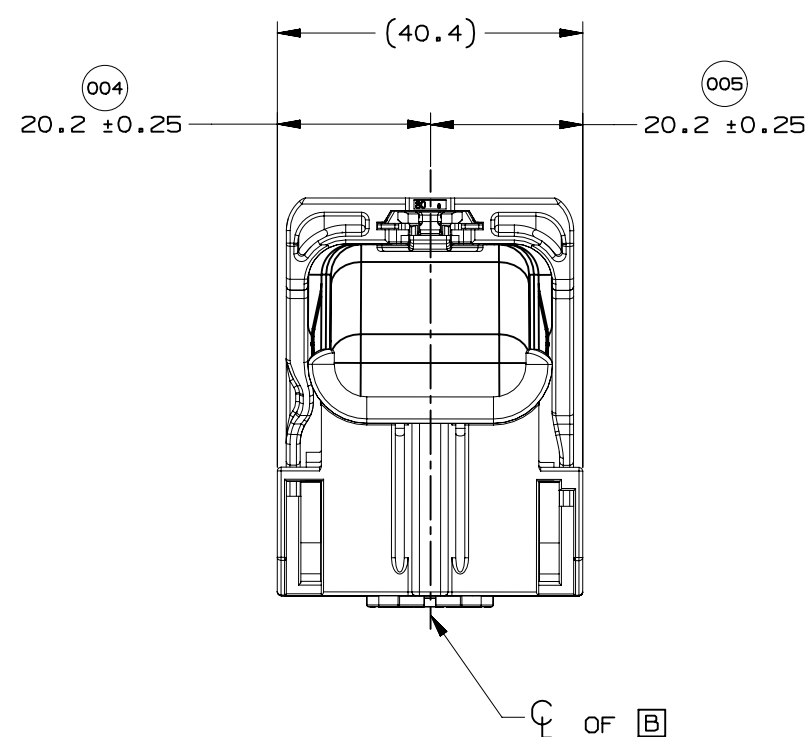
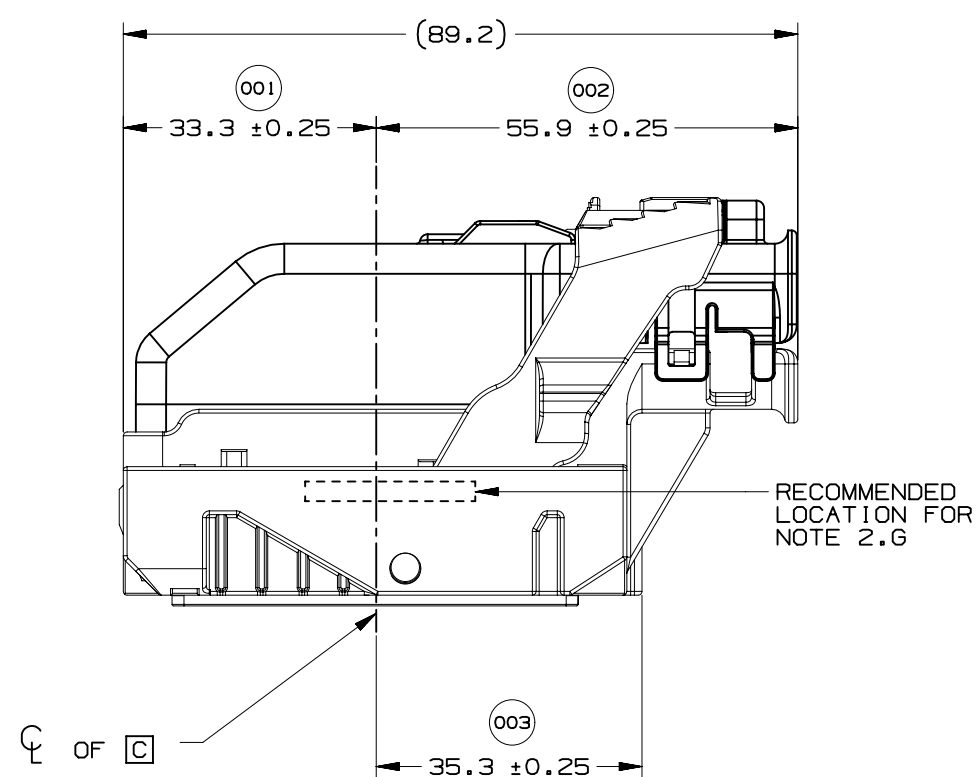


Fig. 1



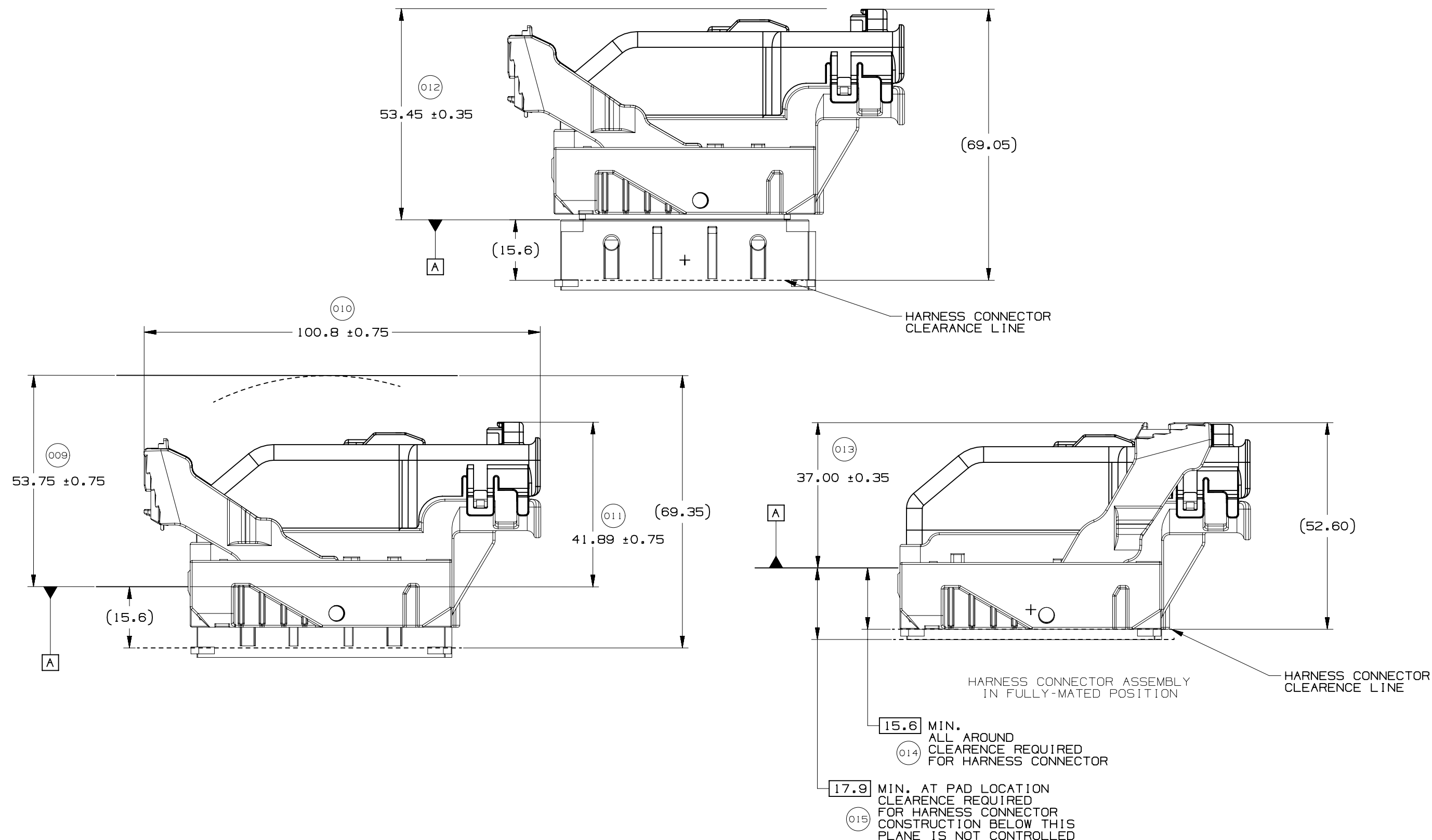


PAGE TITLE
LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUMS B & C

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PAGE TITLE
LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUM A

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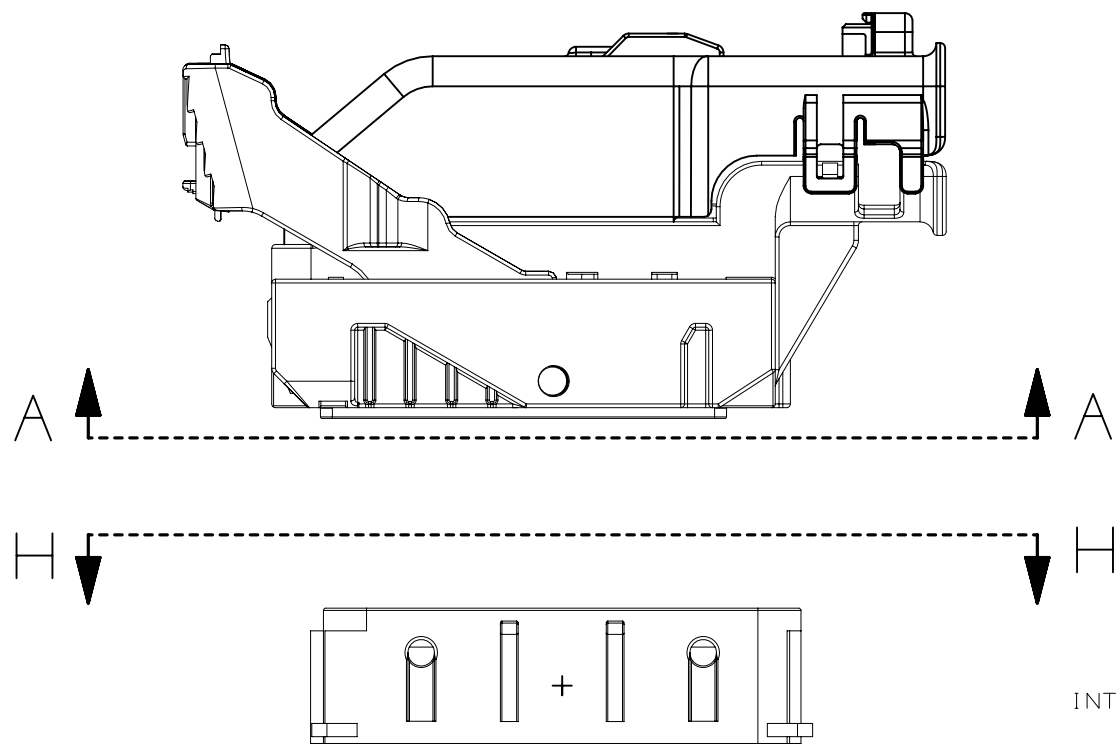
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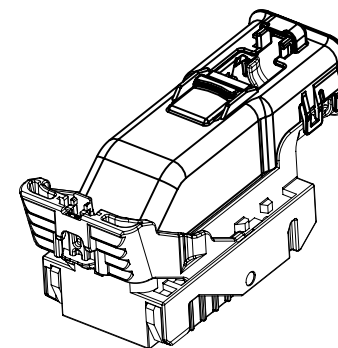
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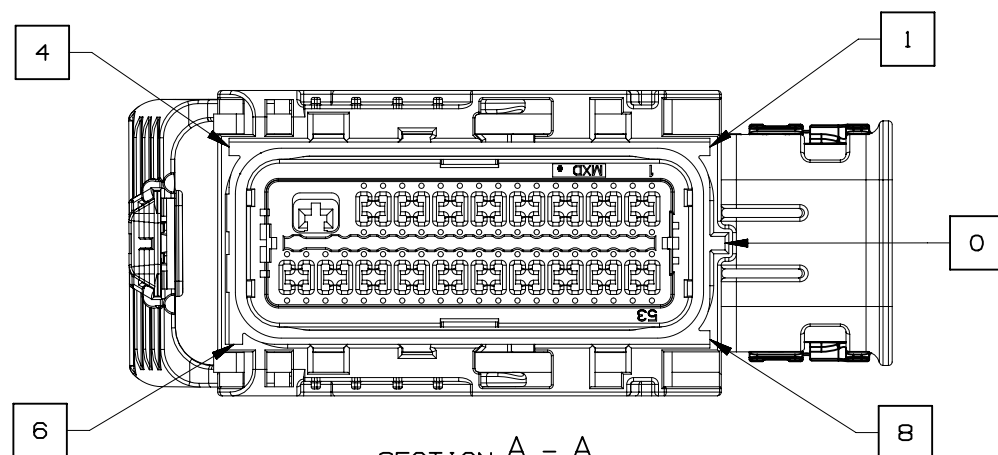
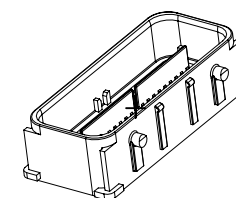
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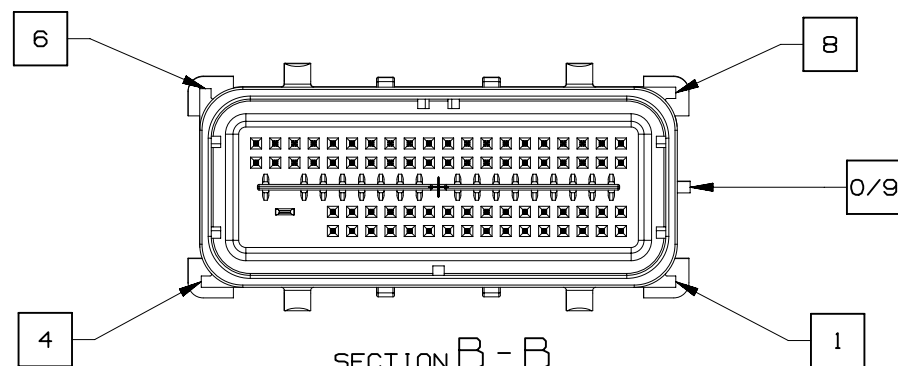
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



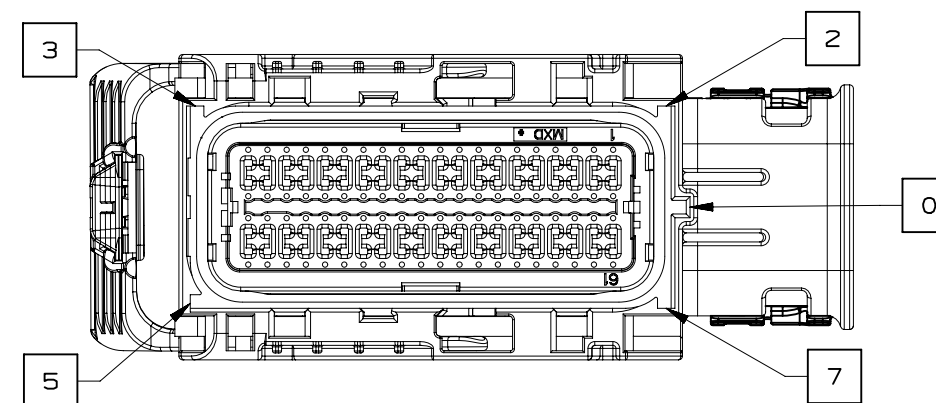
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



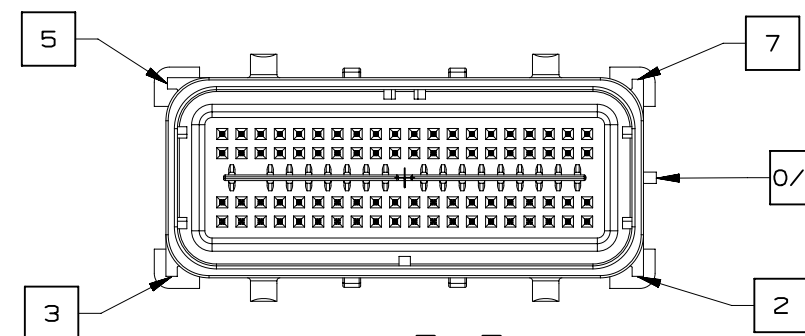
SECTION A - A
73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



SECTION B - B
73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



SECTION A - A
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



SECTION B - B
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



PAGE TITLE

KEY ID REF - WIRE DRESS OPTION 0

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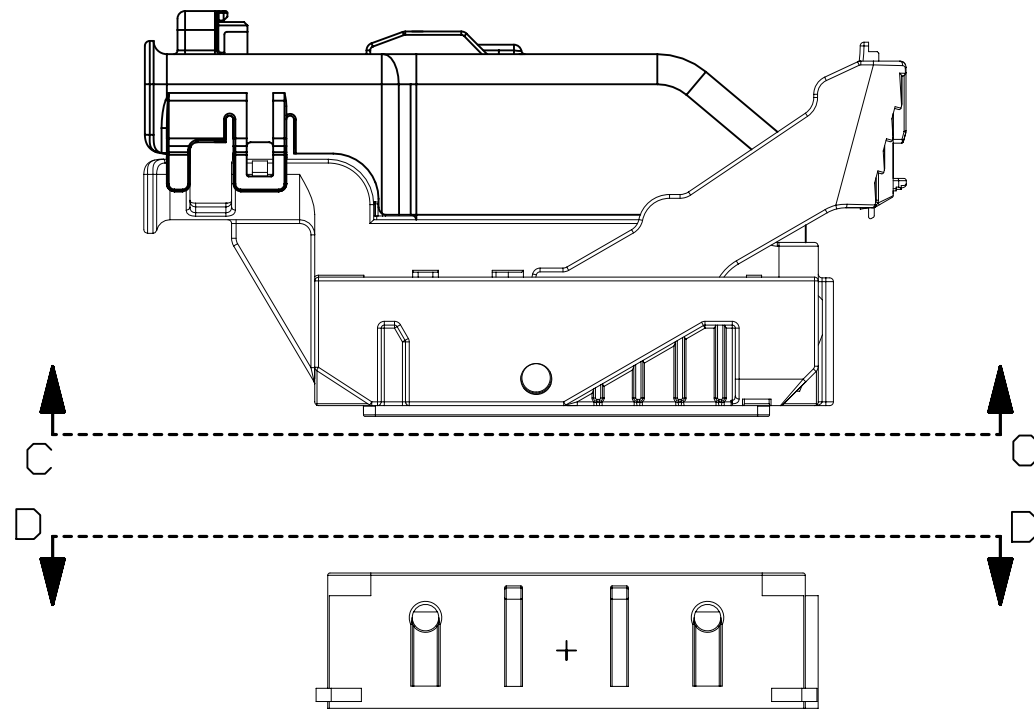
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ST REV PDI

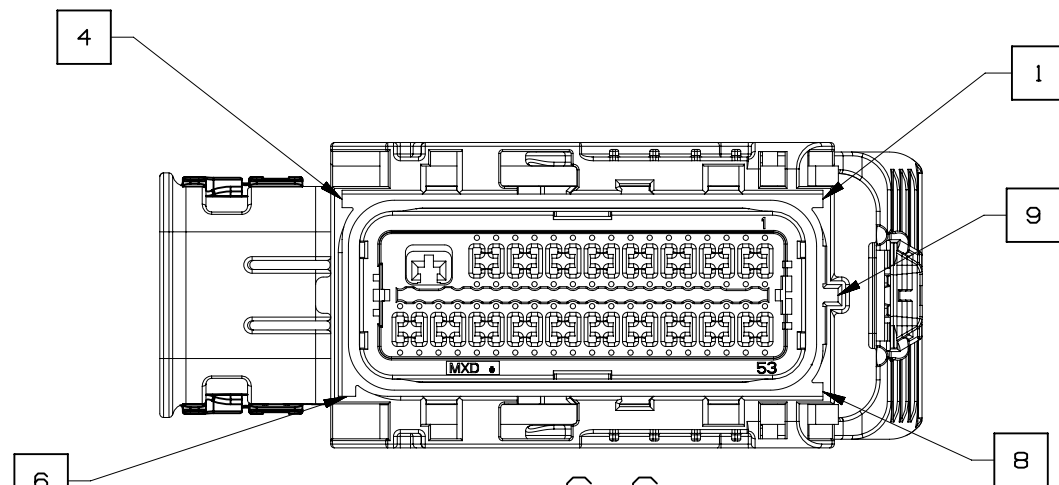
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PAGE NUMBER

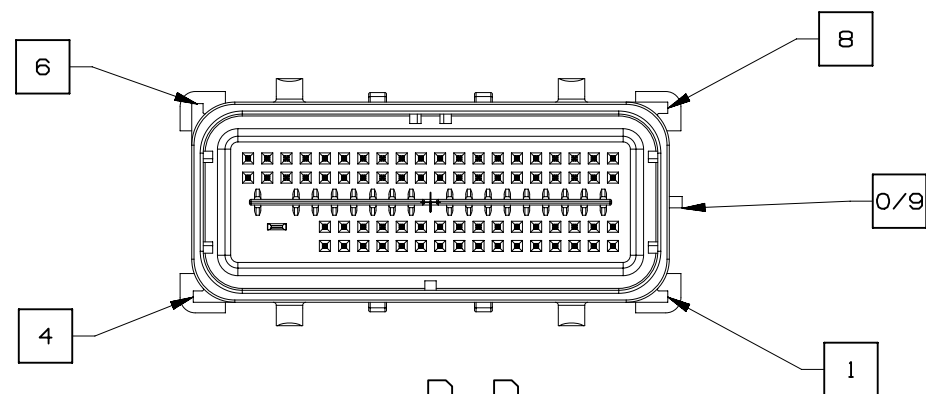
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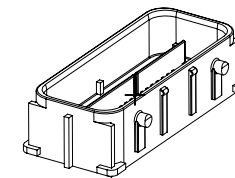
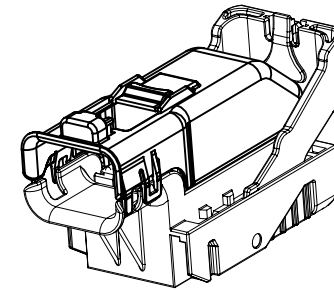
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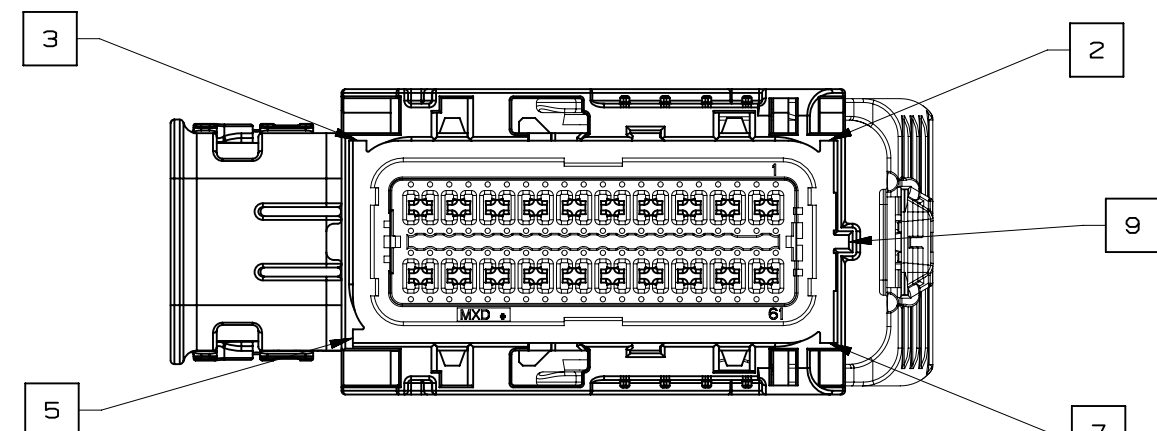
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



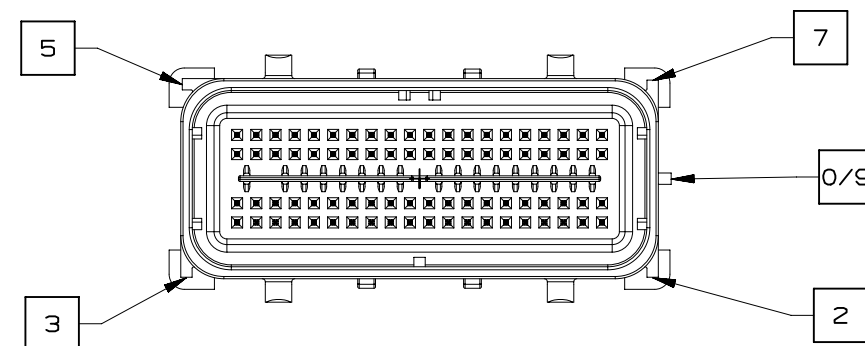
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



SECTION C - C
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



SECTION D - D
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN

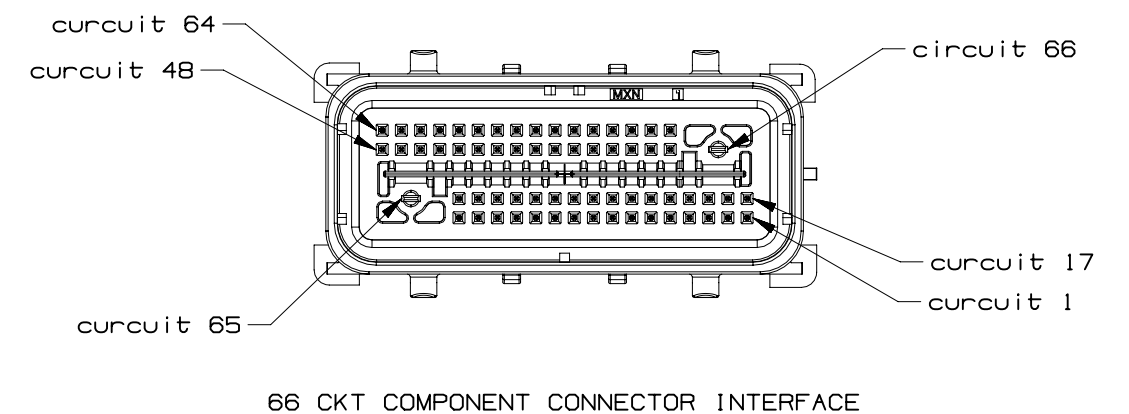
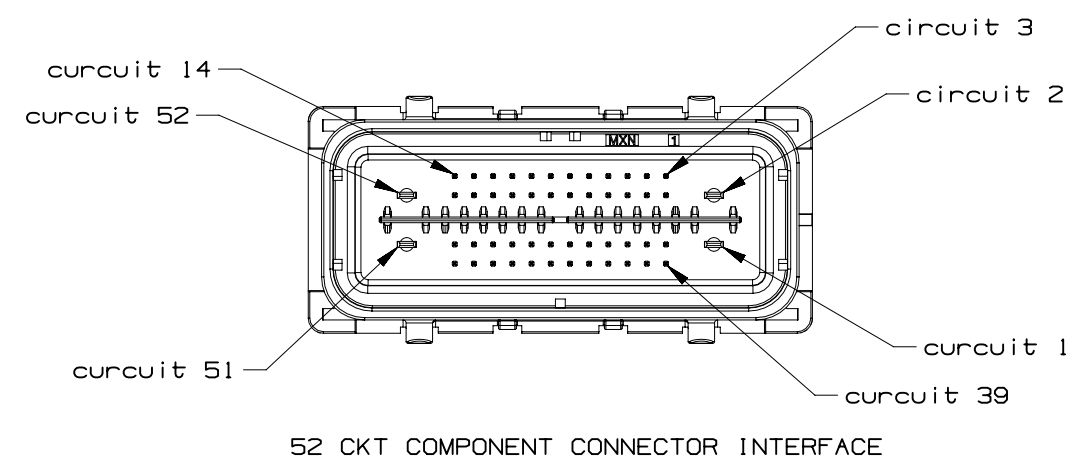
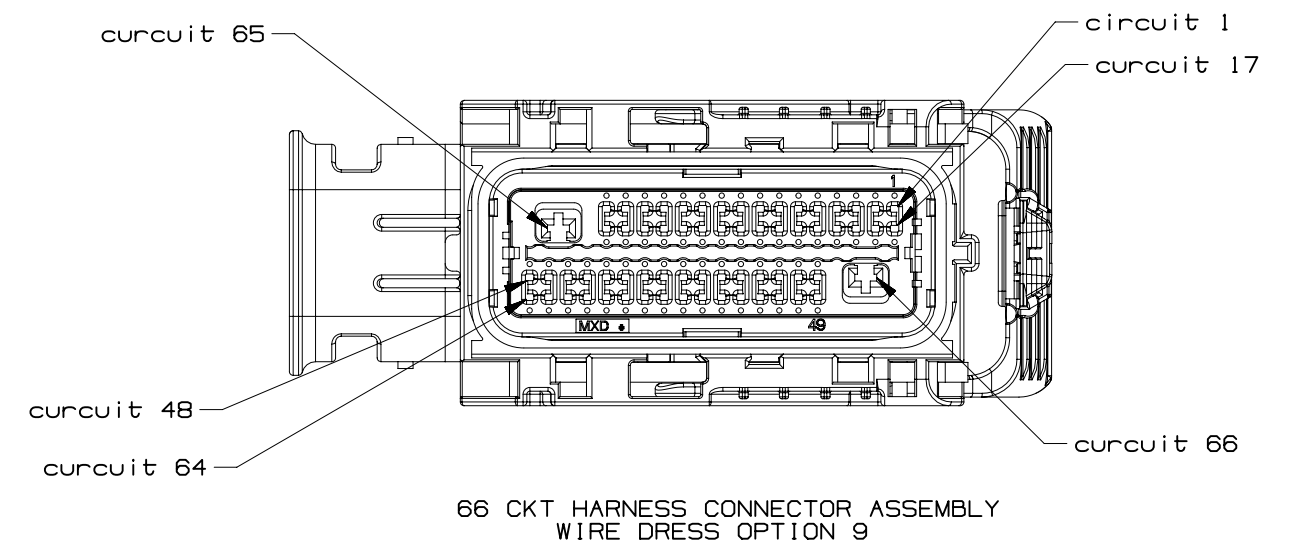
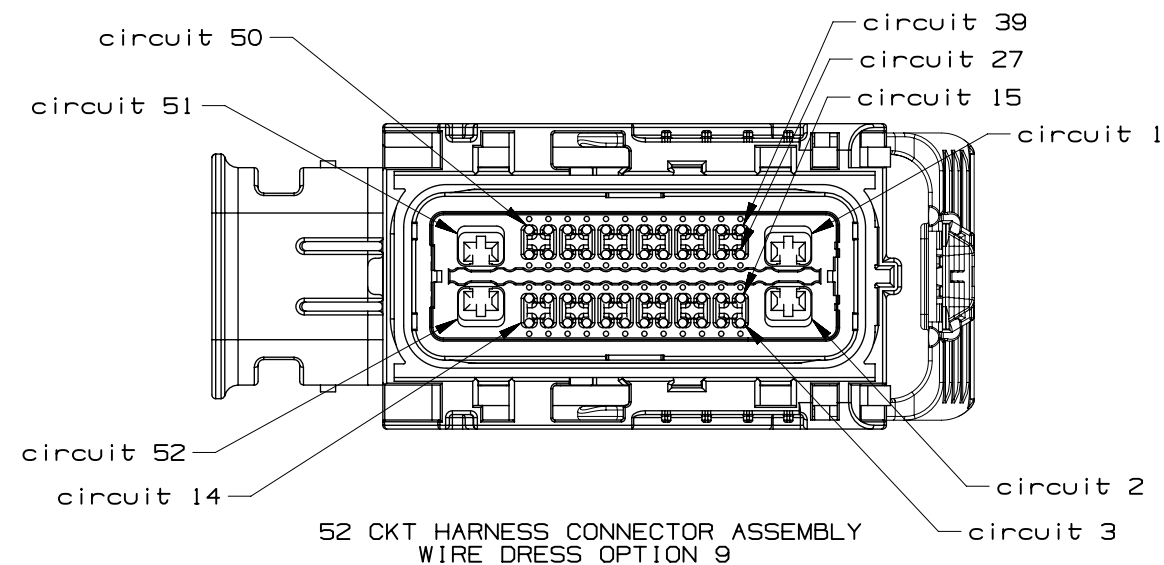
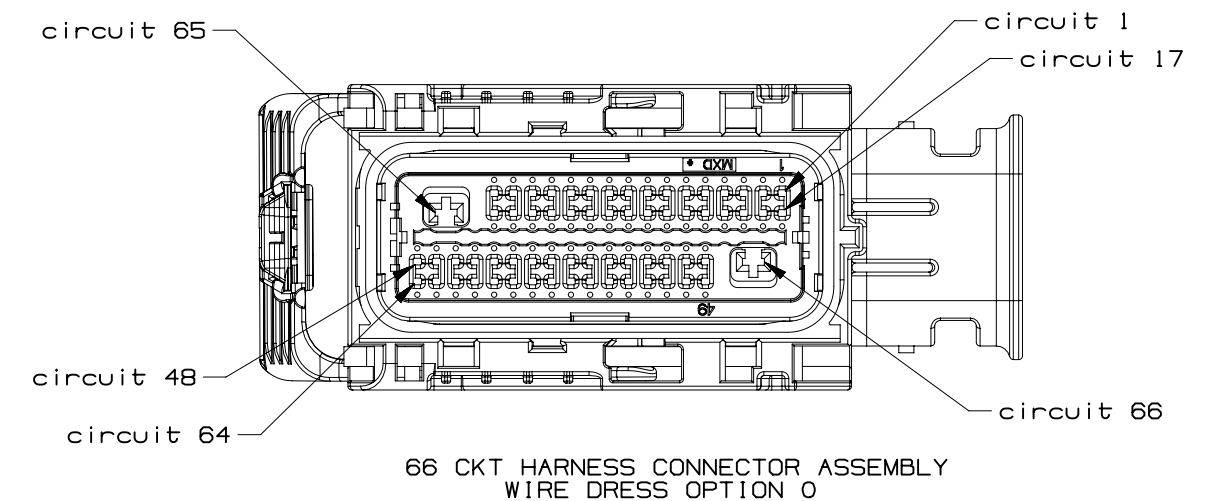
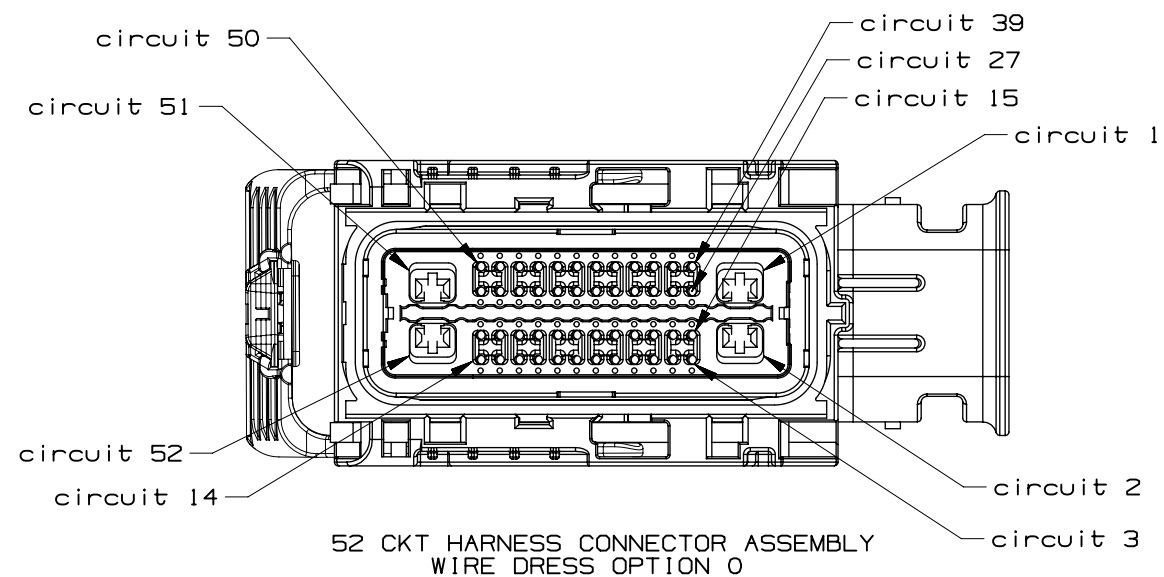


PAGE TITLE
KEY ID REF - WIRE DRESS OPTION 9

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12672833

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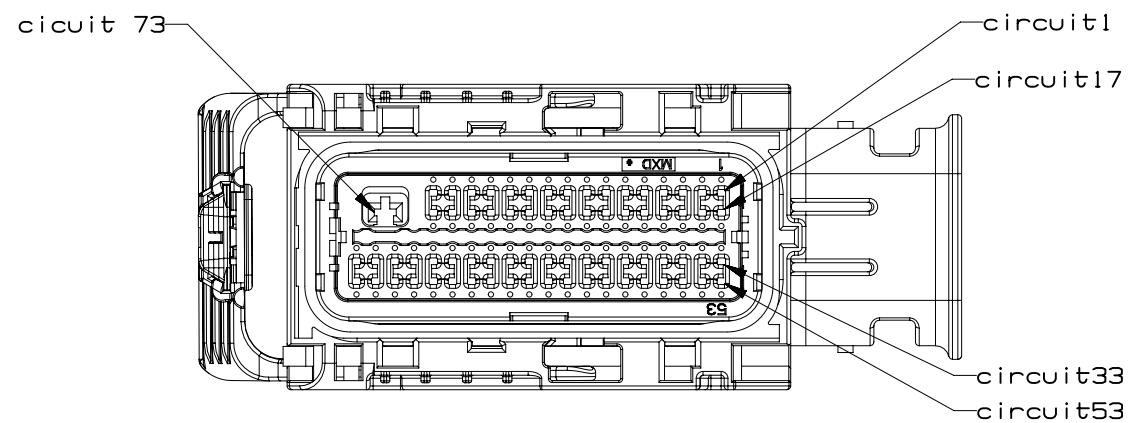


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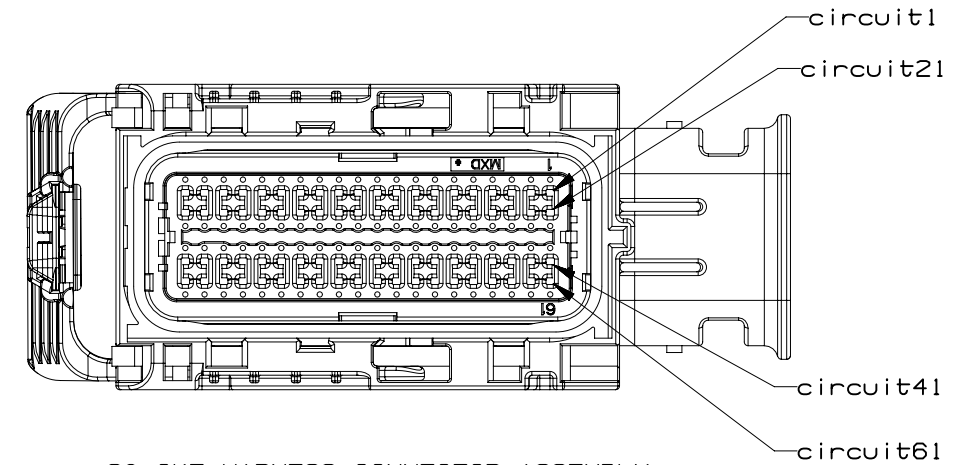
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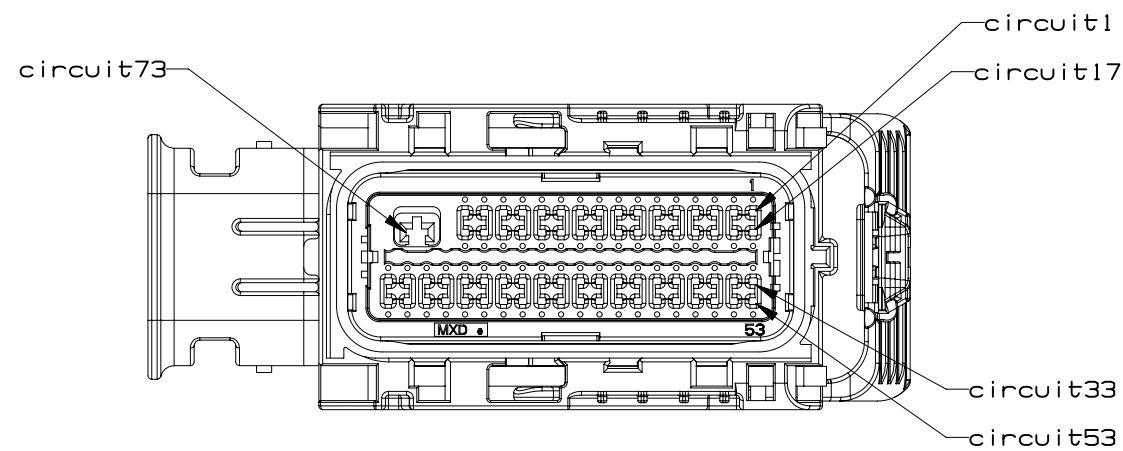


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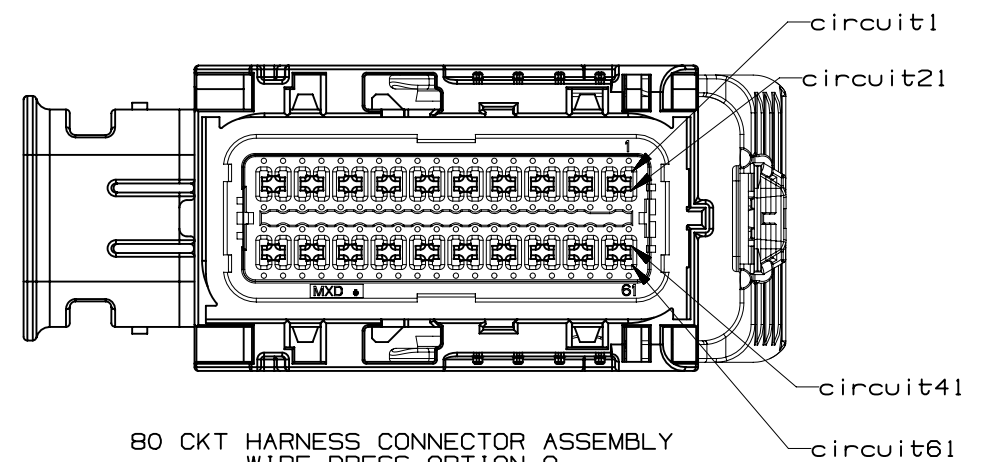


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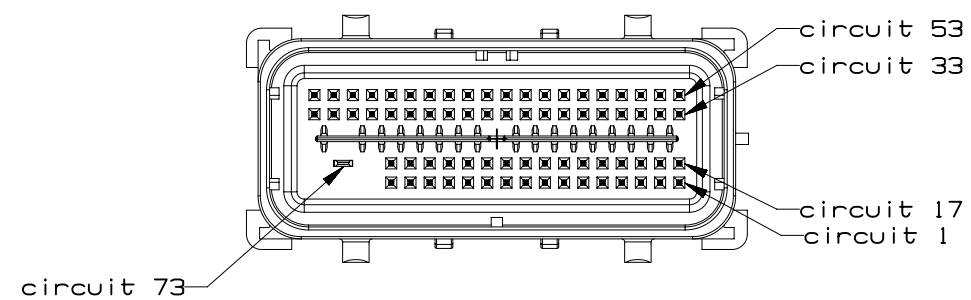
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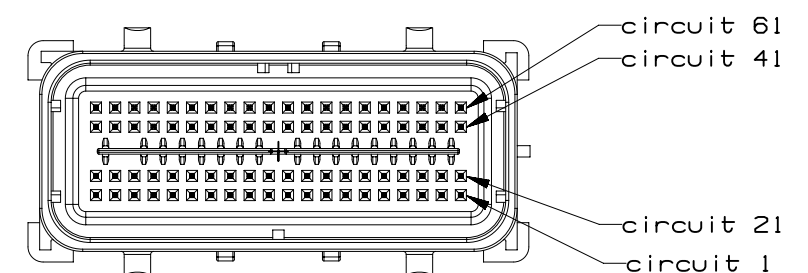
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WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

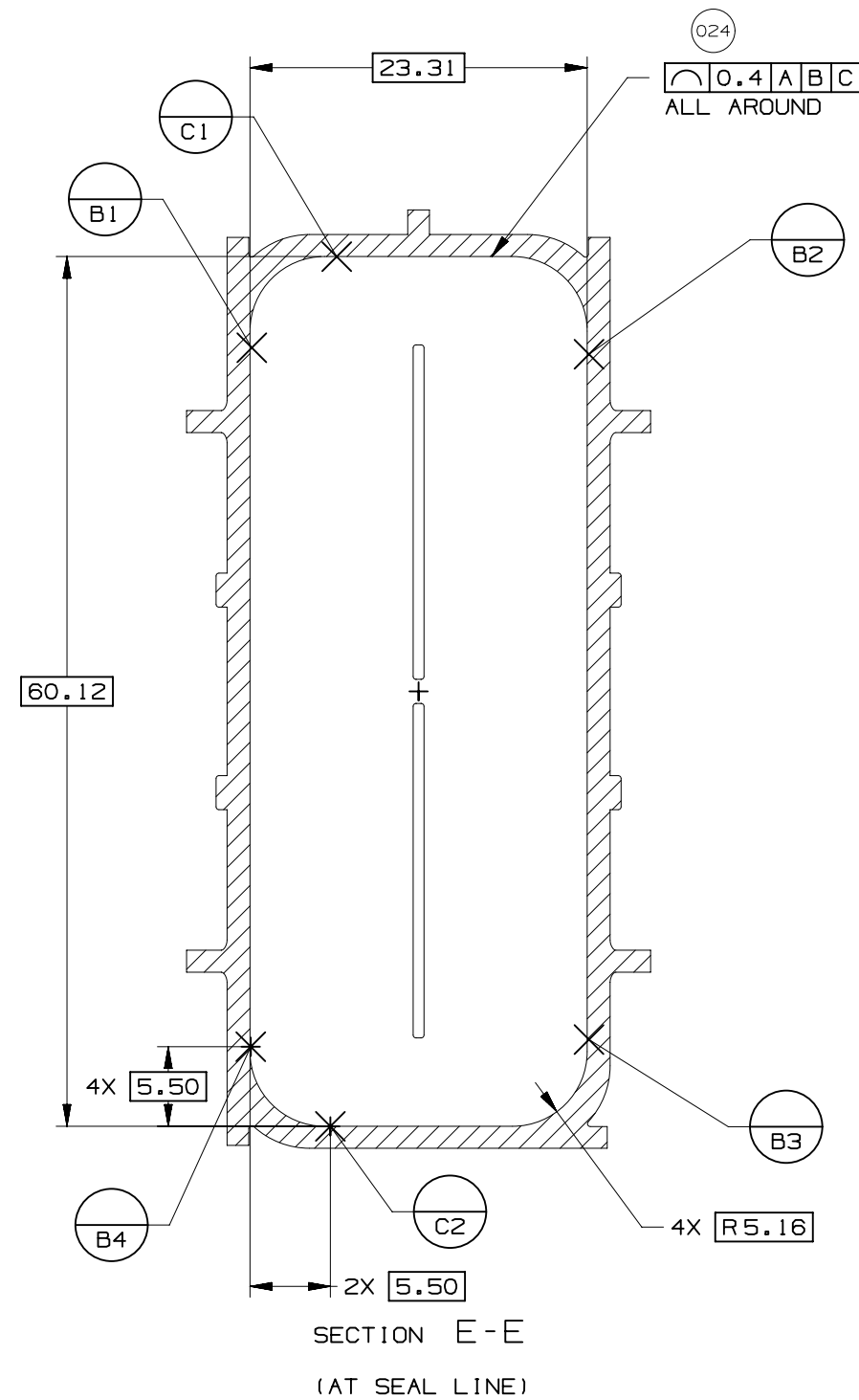
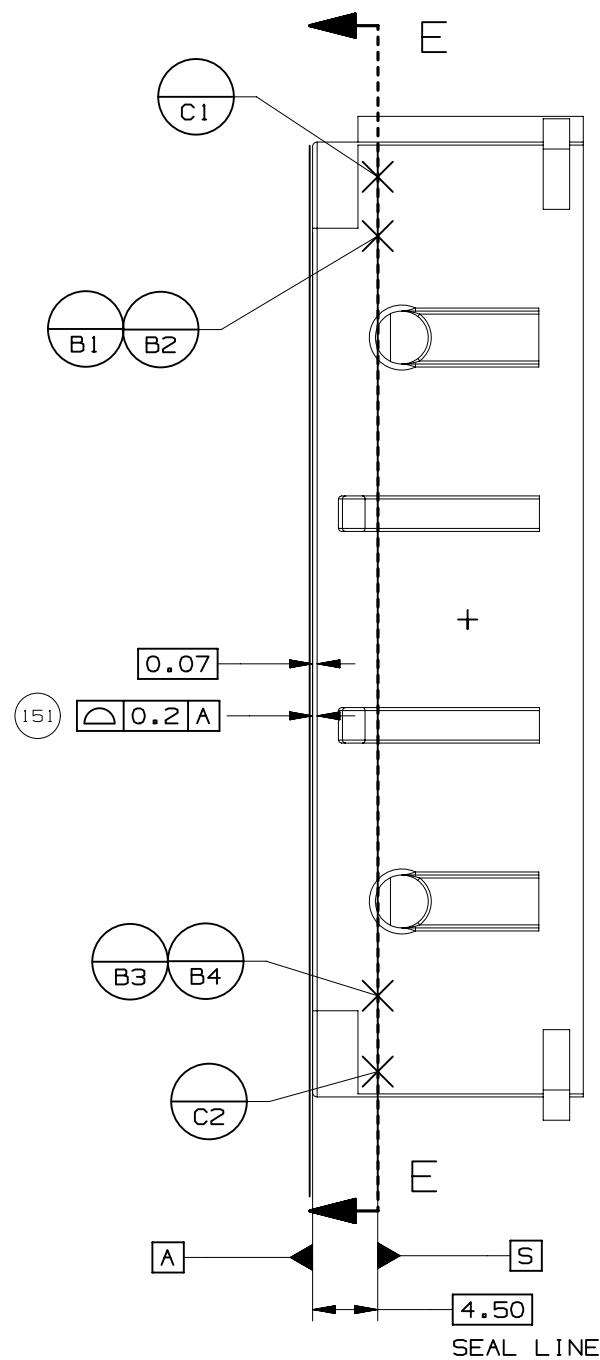
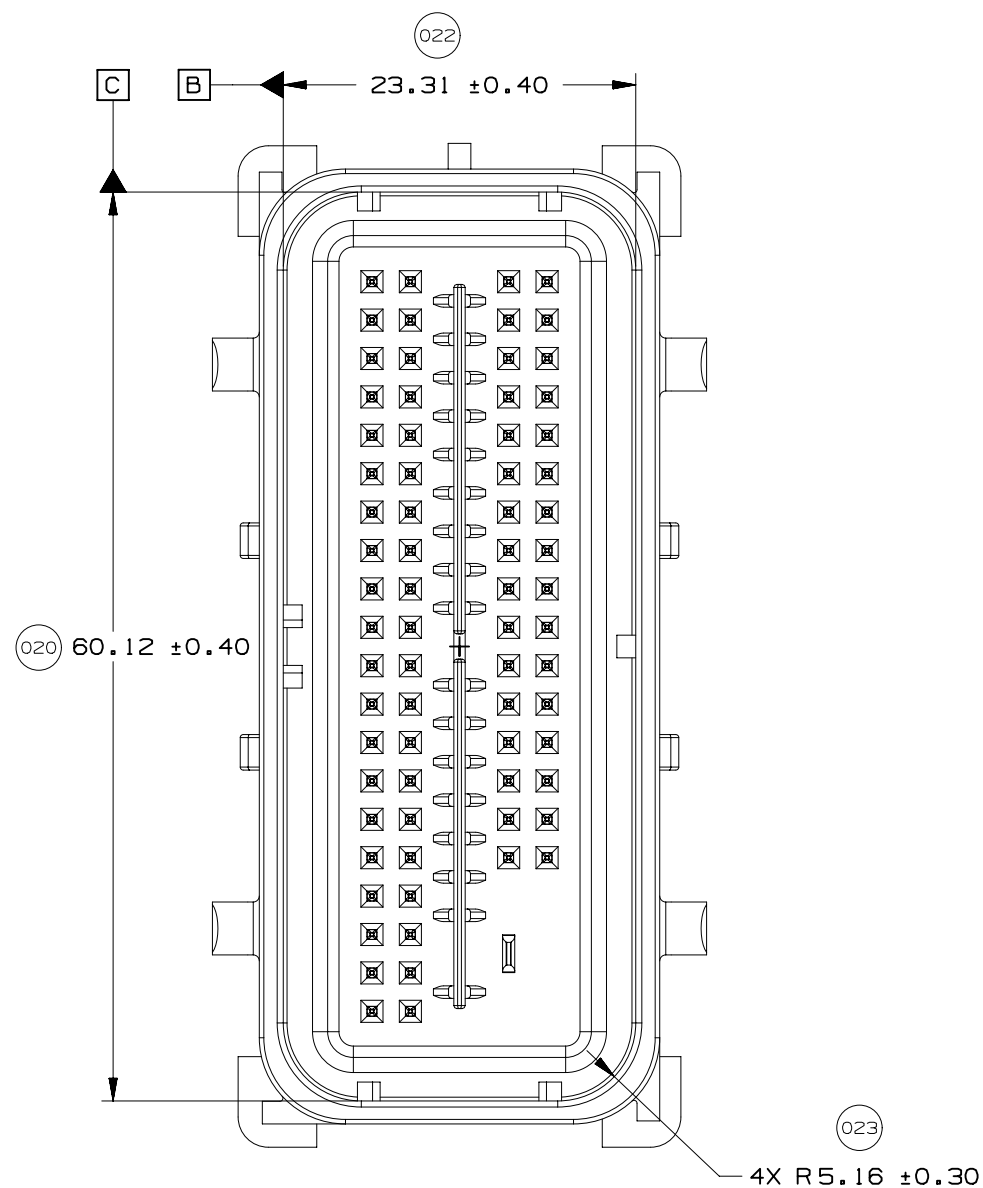
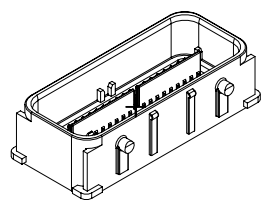


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE





UNLESS SPECIFIED, TOLERANCE OF THE COMPONENT CONNECTOR INTERFACE TO BE 0.13

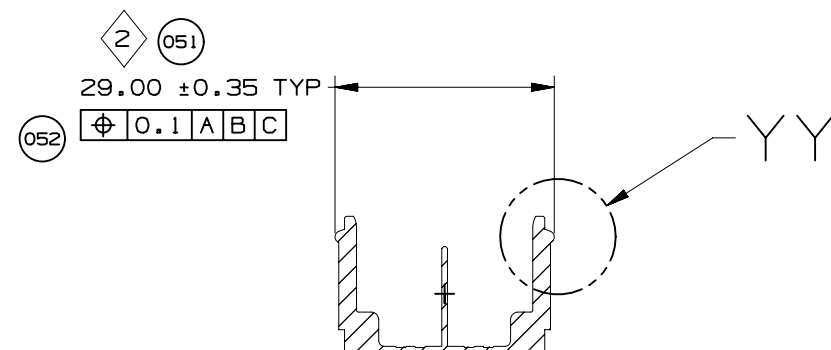
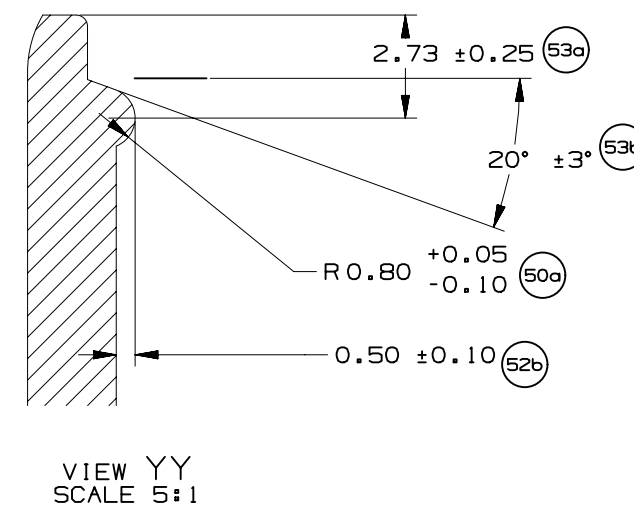
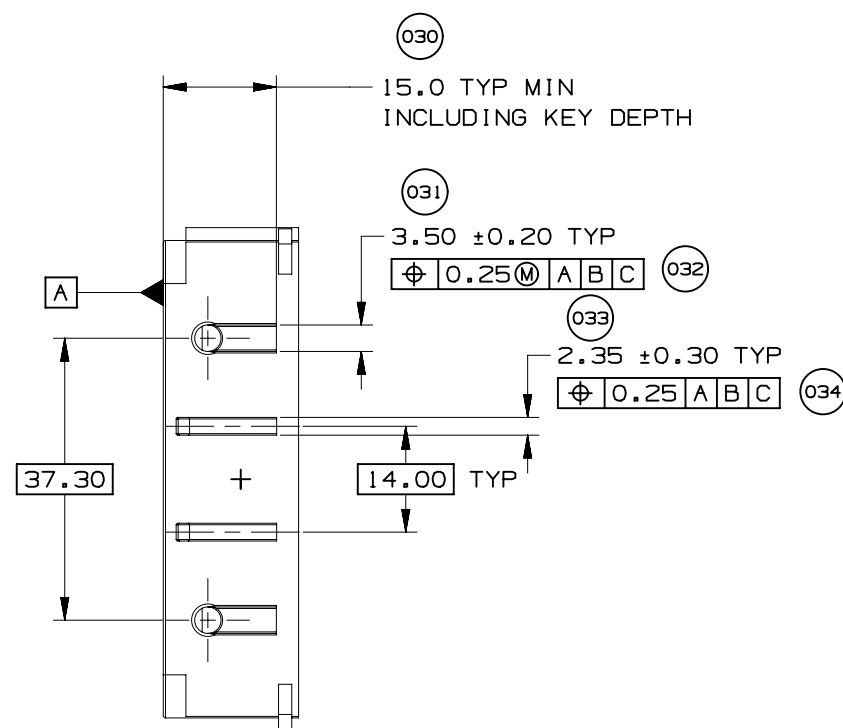
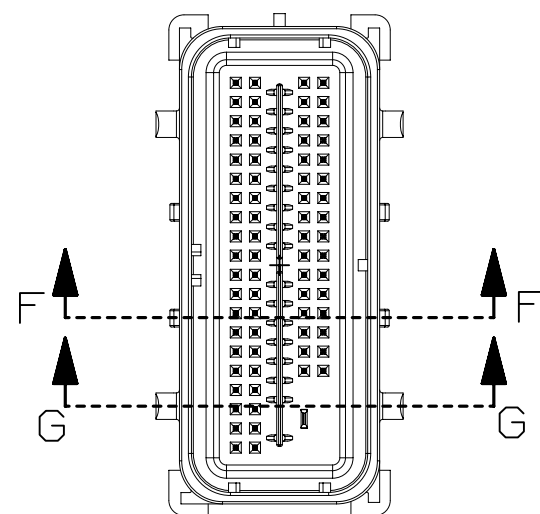


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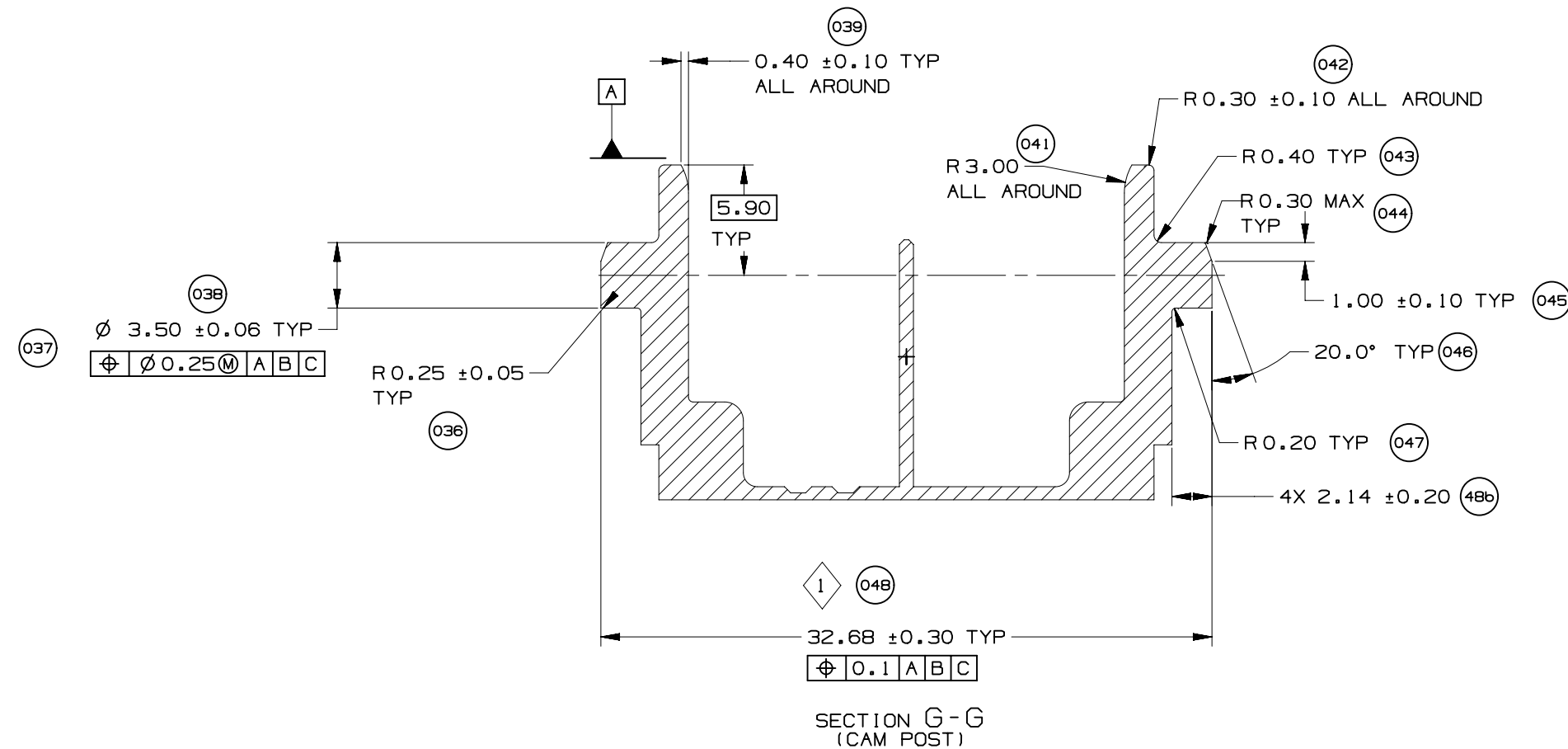
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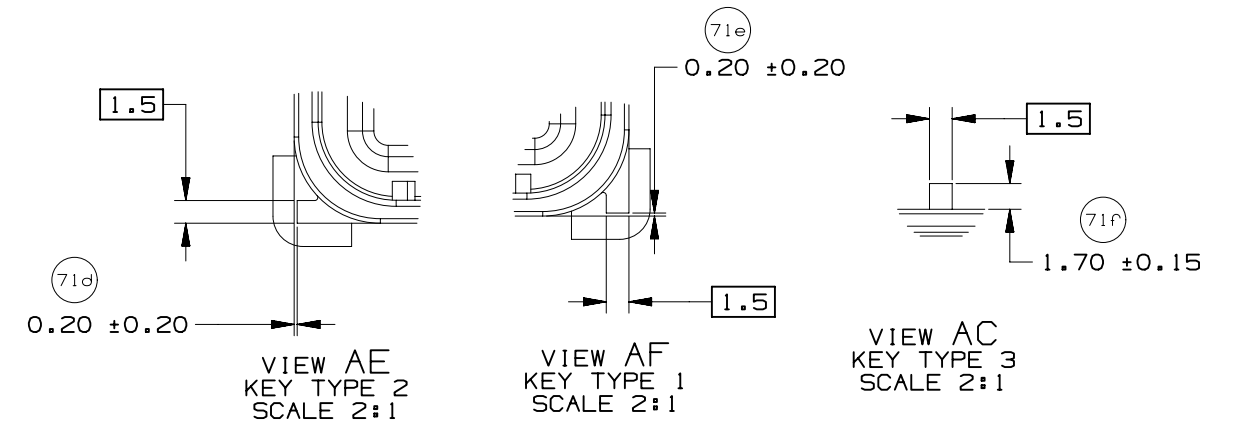
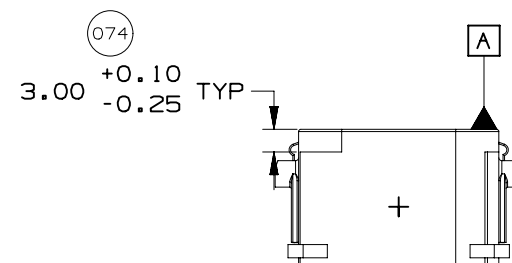
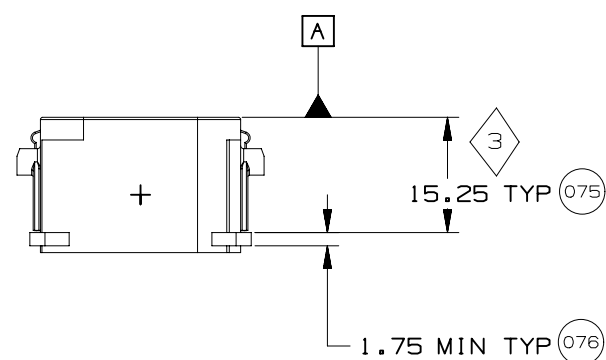
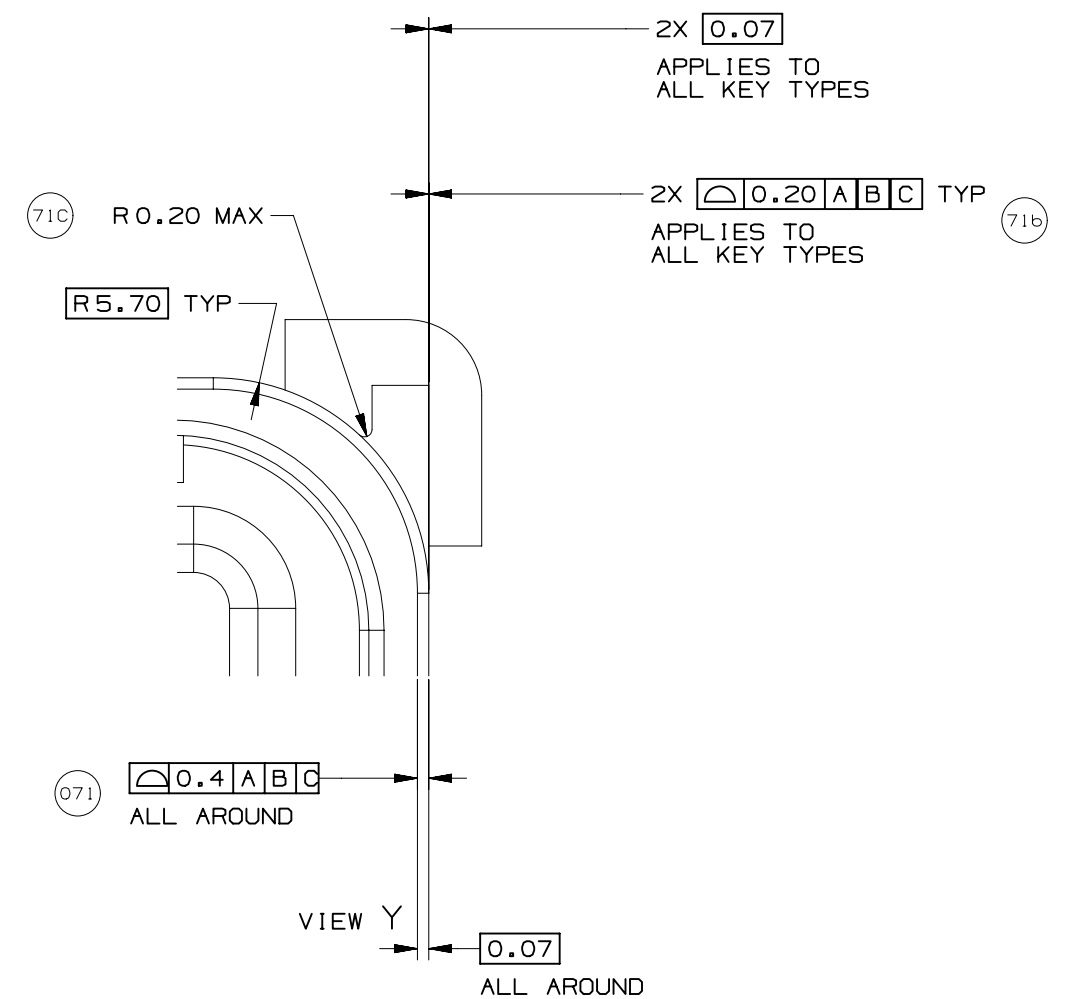
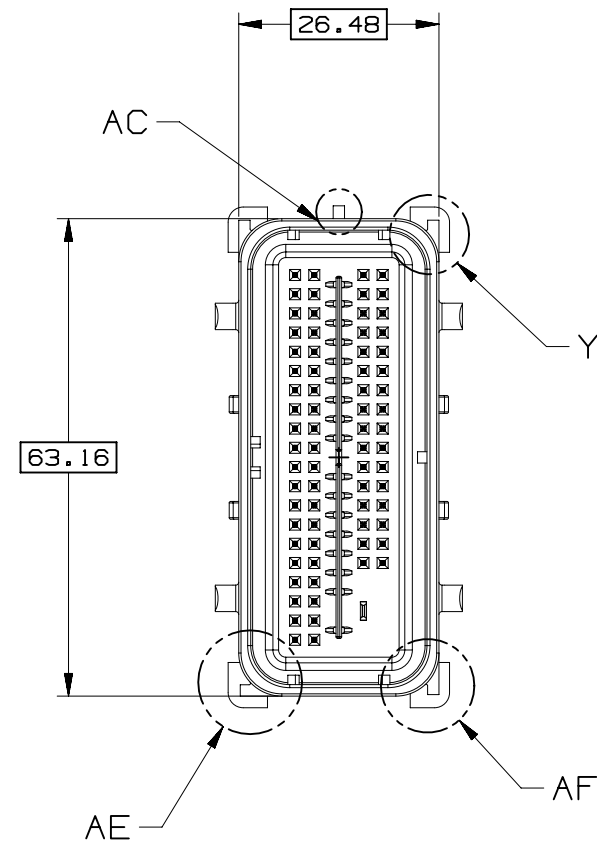
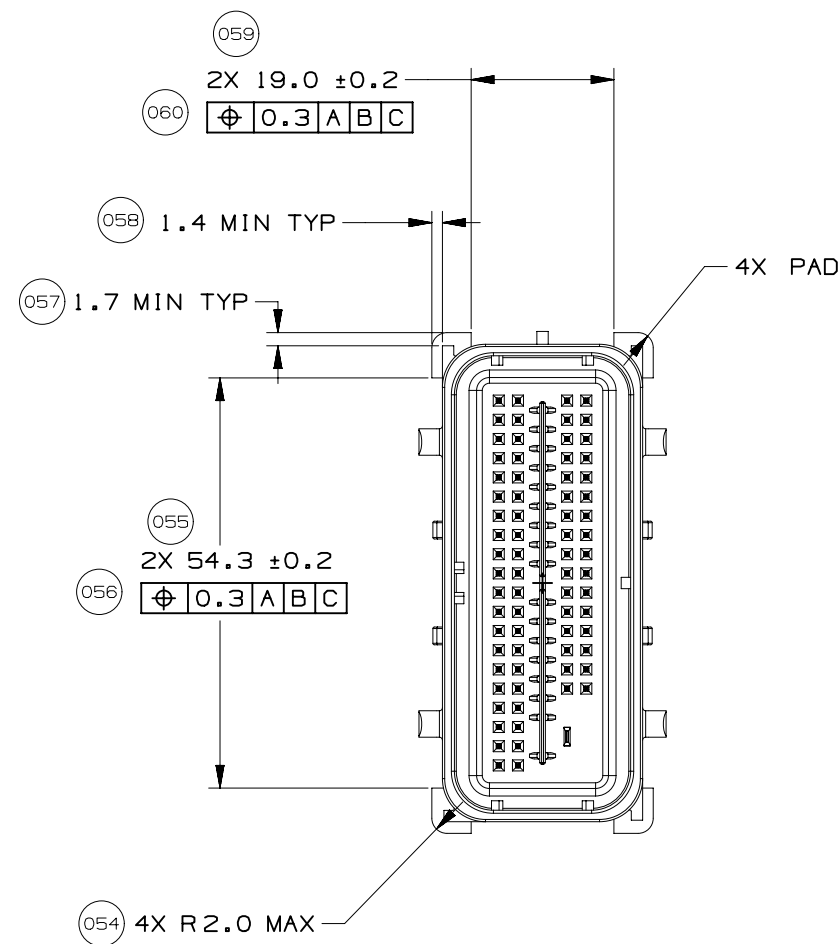
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SECTION F-F
(RELEASE FEATURE)

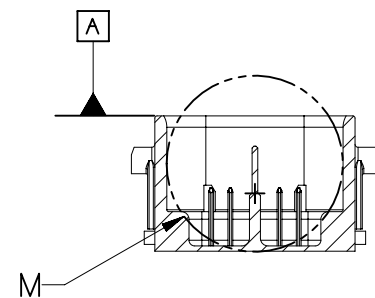




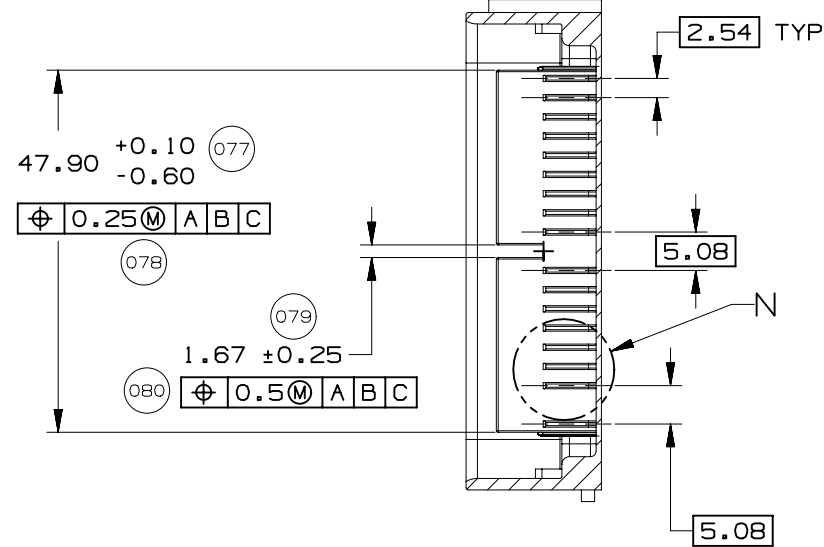
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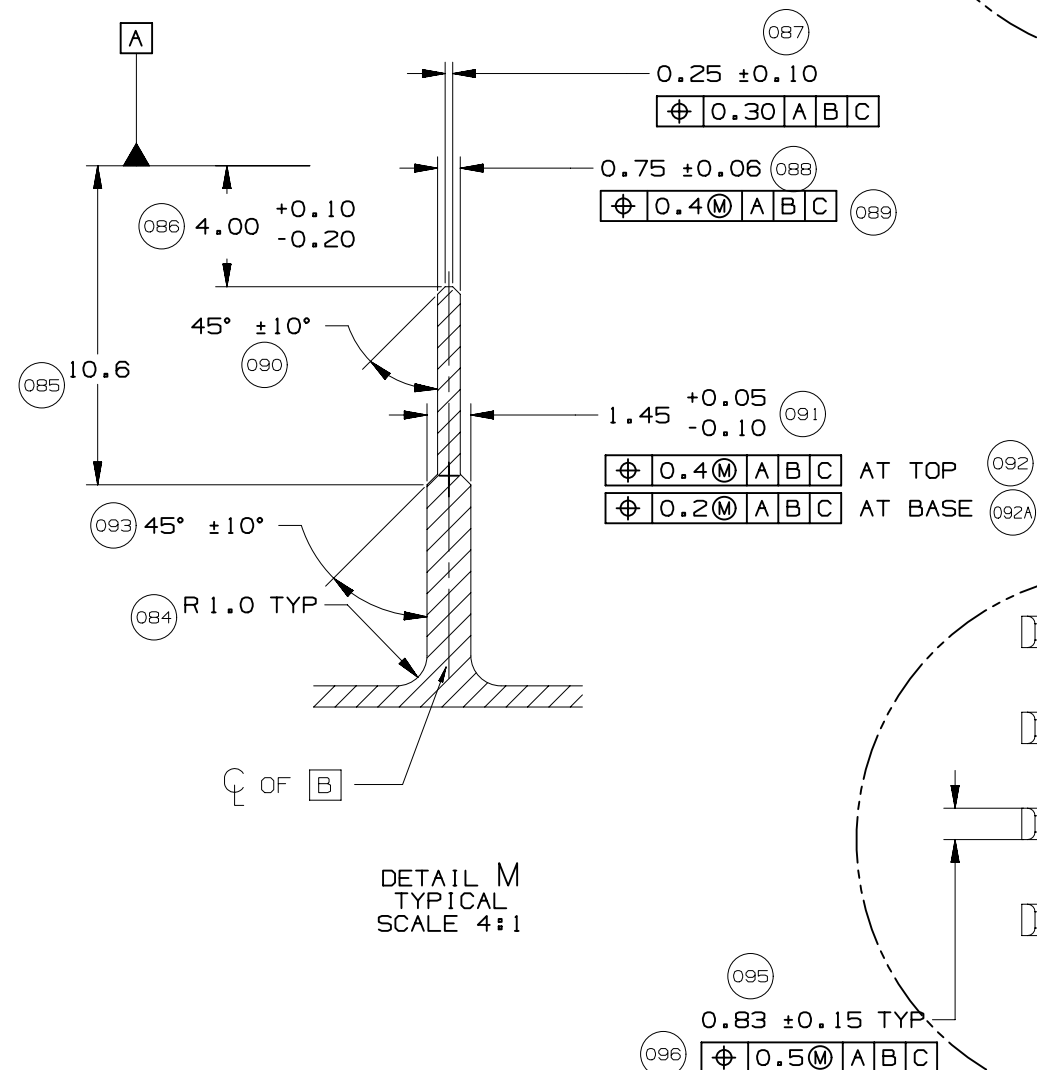
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SECTION AD-AD

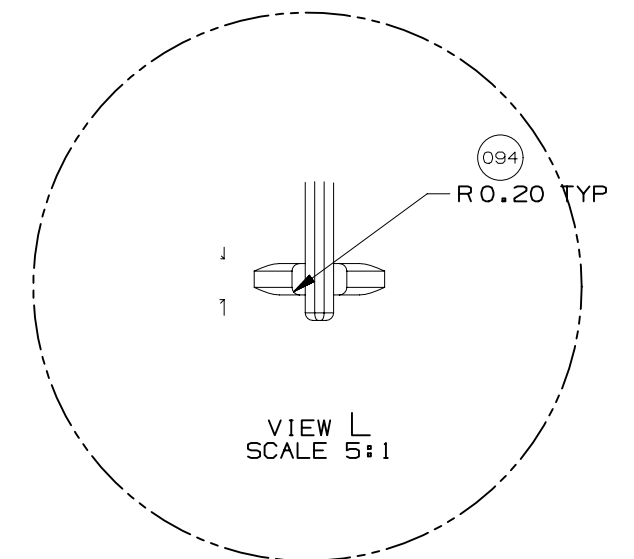


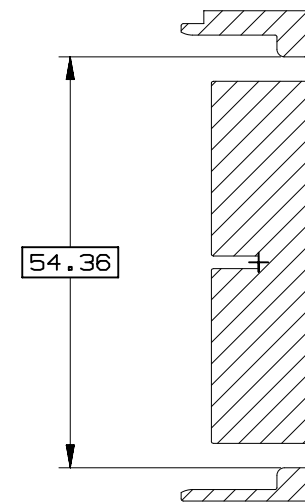
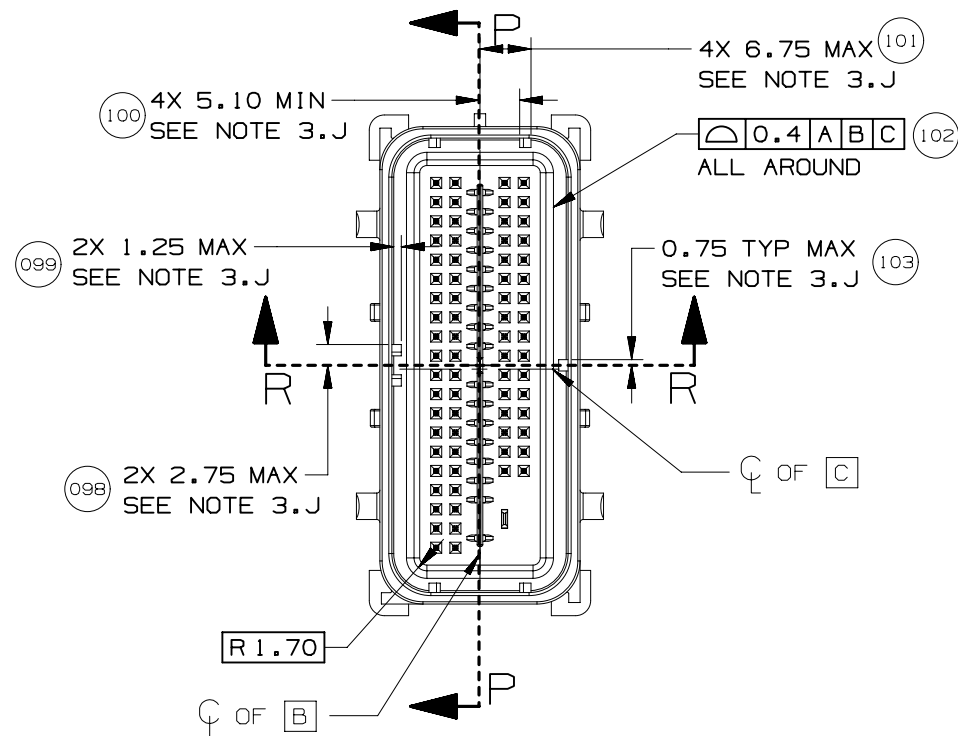
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TYPICAL
SCALE 4:1



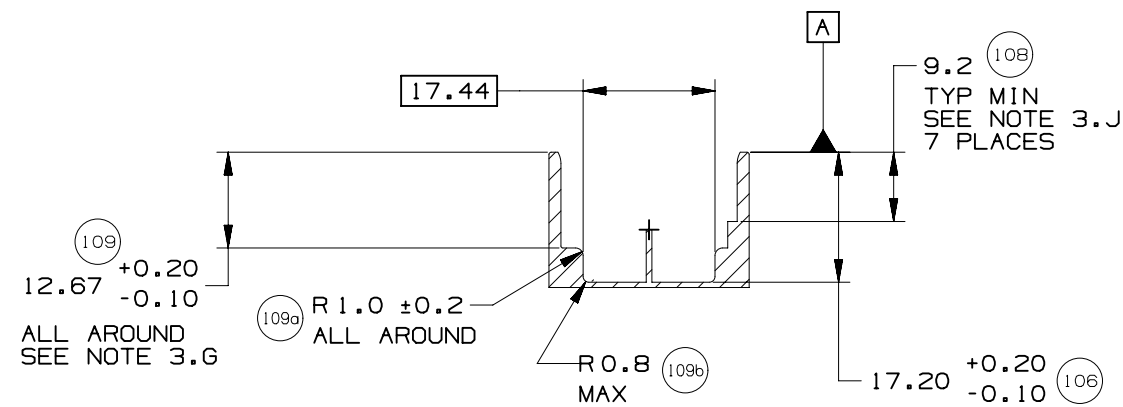
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A	B	C
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SECTION P-P



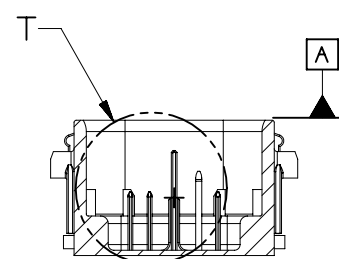
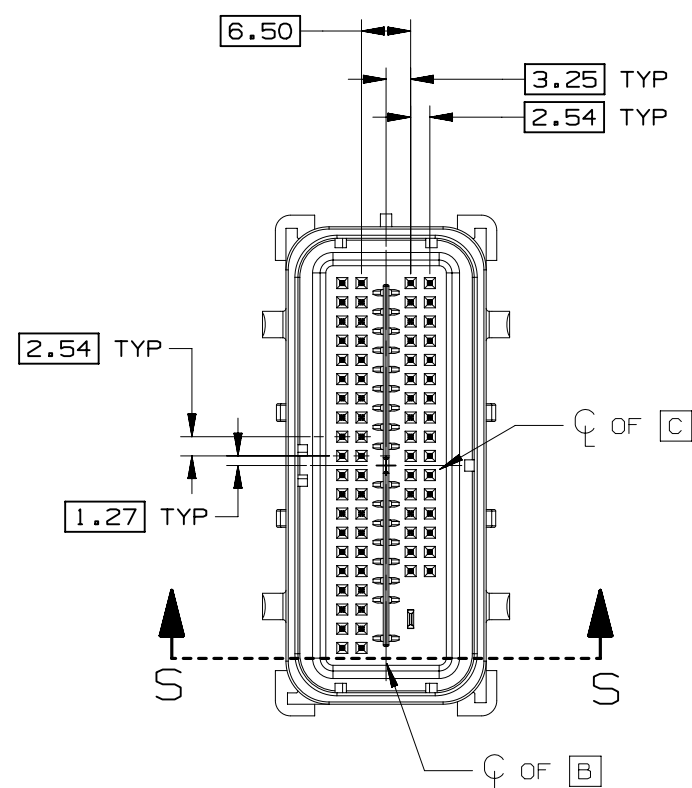
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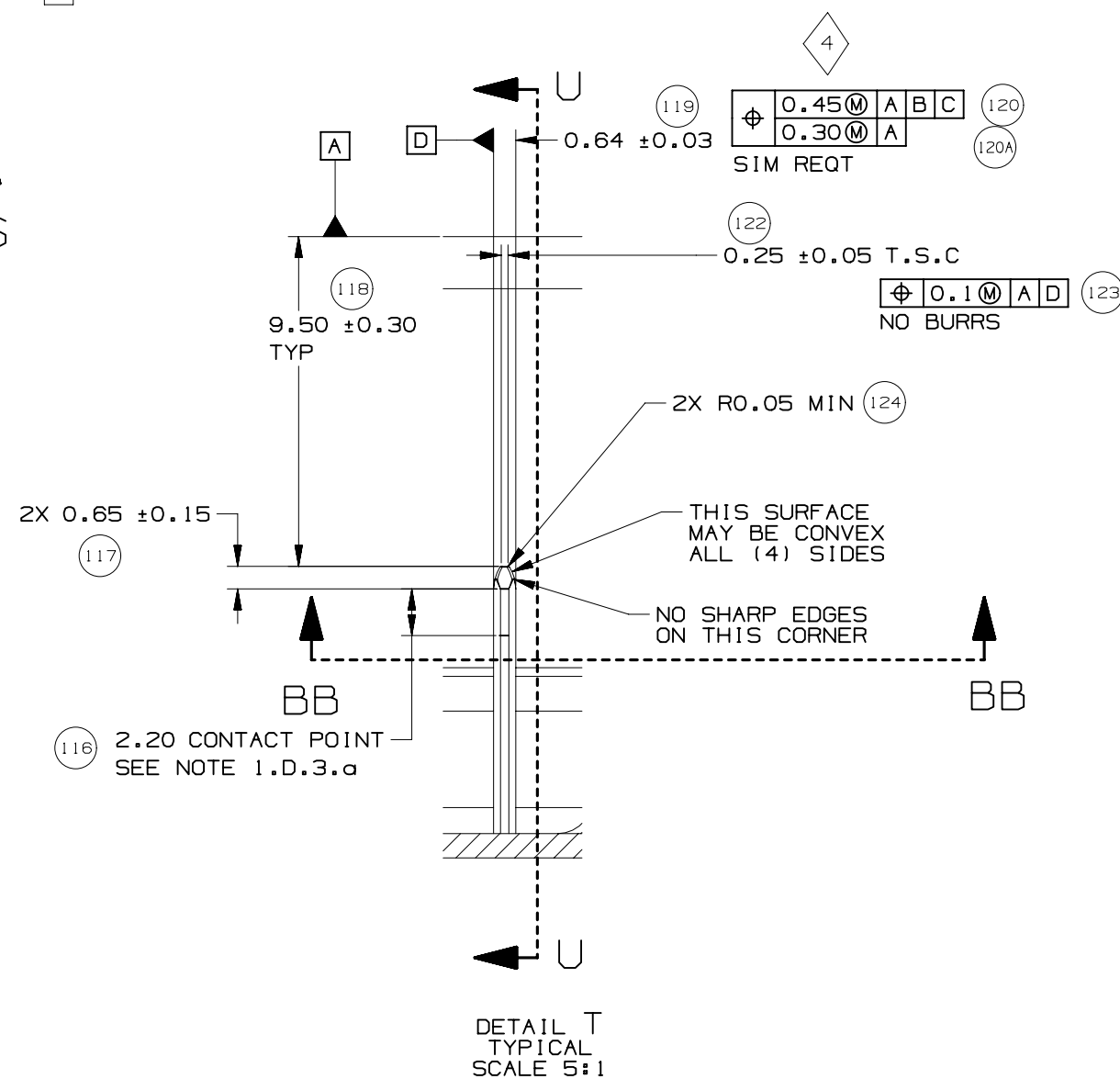
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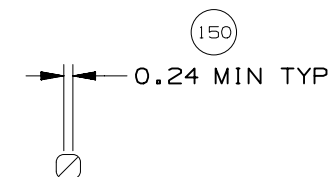
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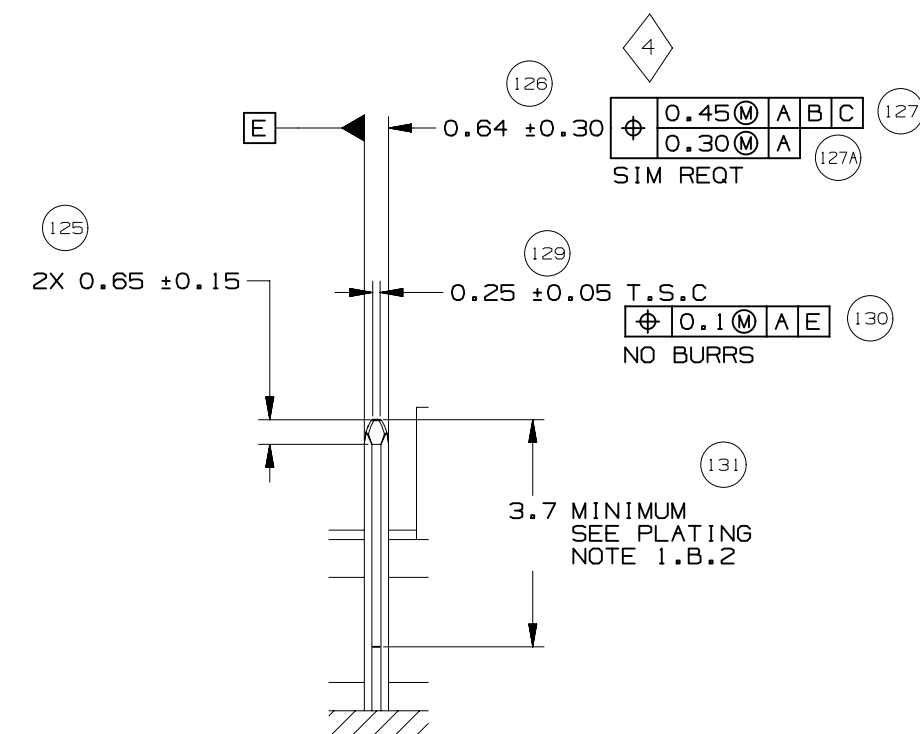
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DETAIL T
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SCALE 5:1

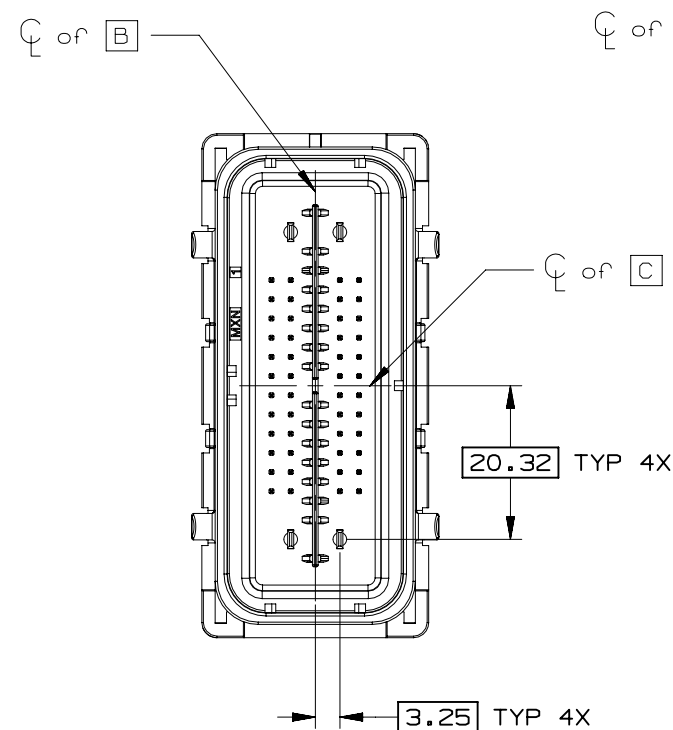


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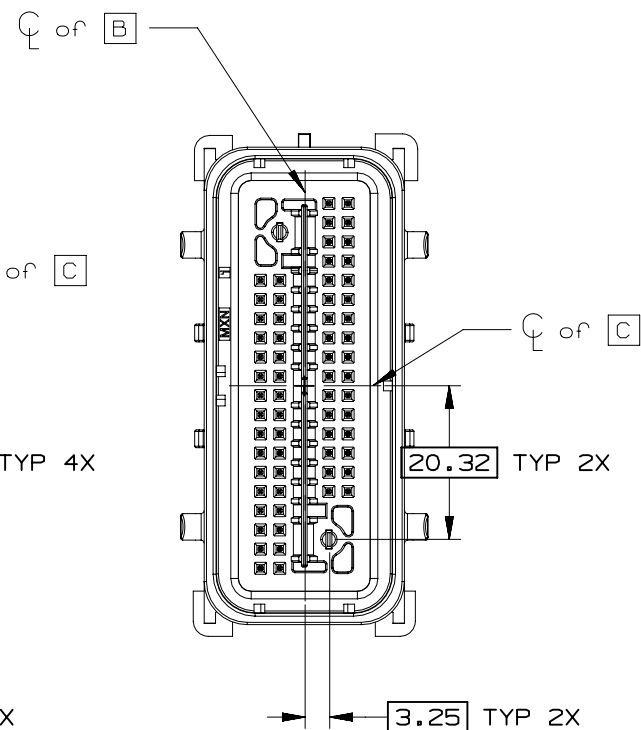


SECTION U-U
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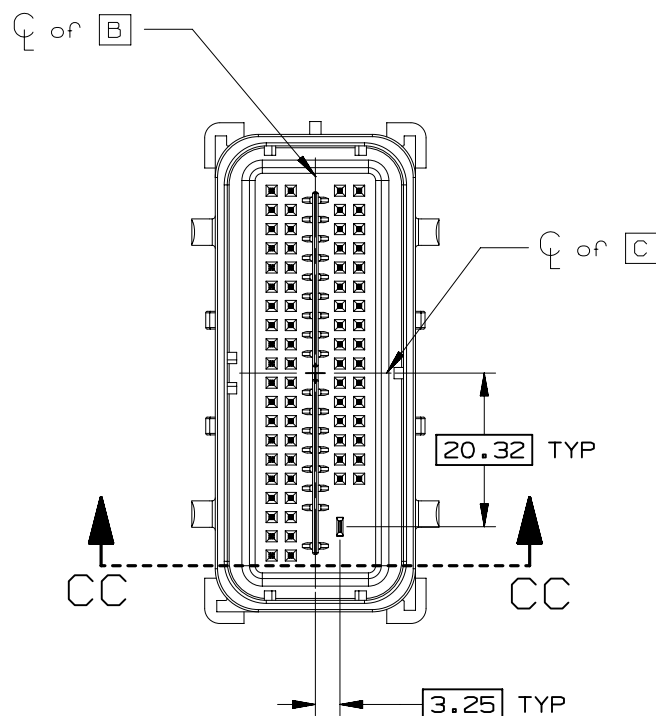




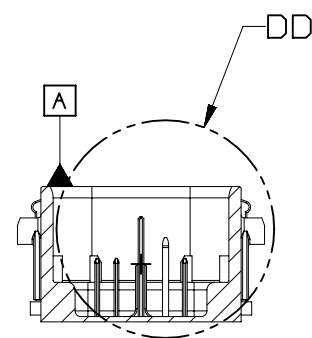
52 CKT COMPONENT
CONNECTOR INTERFACE



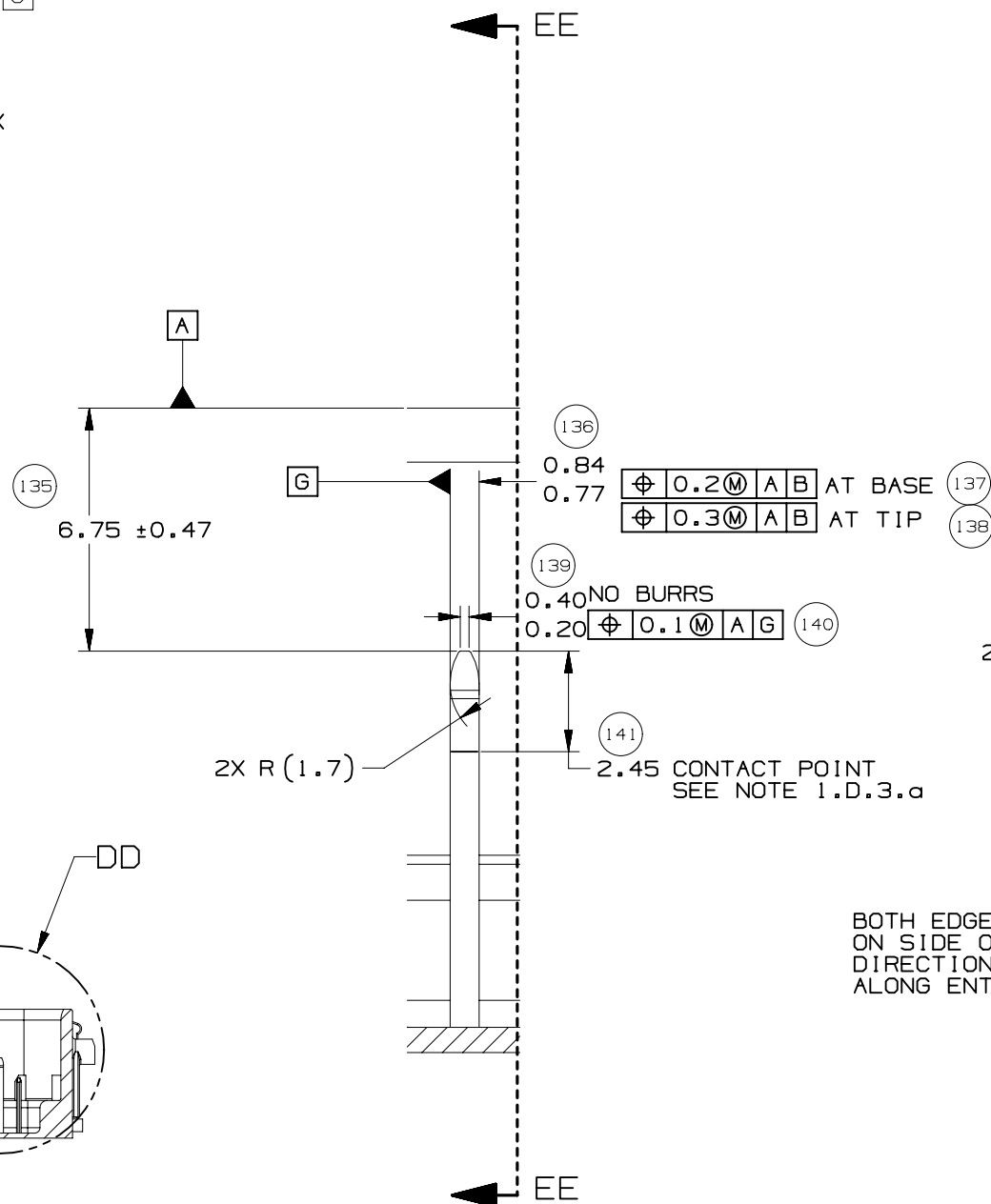
66 CKT COMPONENT
CONNECTOR INTERFACE



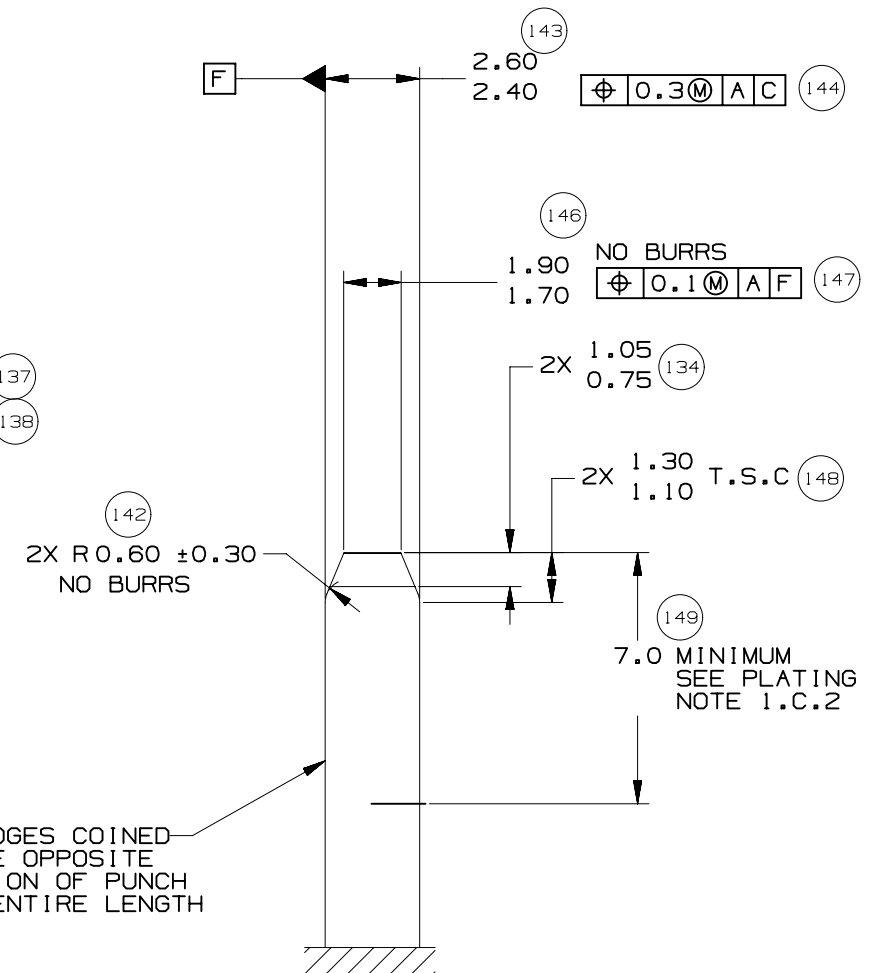
73 CKT COMPONENT
CONNECTOR INTERFACE



SECTION CC-CC



DETAIL DD
TYPICAL
SCALE 5:1



SECTION EE-EE
TYPICAL



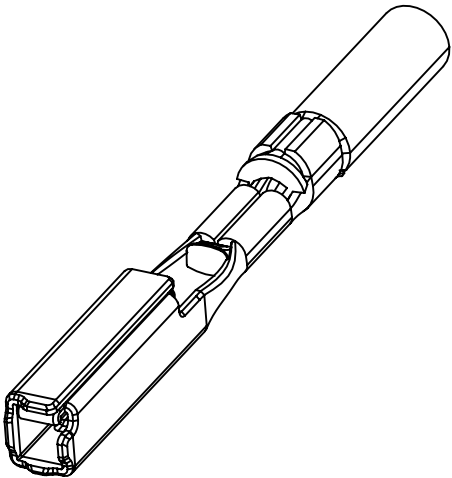
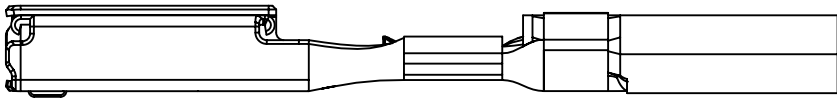
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COMPONENT CONNECTOR INTERFACE

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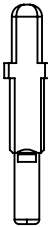
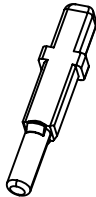
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MOLEX MX64 RECEPTACLE TERMINAL INFORMATION							
ITEM	MOLEX P/N	GM P/N	WIRE SIZE MM2	TYPE	PLATING	REEL WIND DIRECTION	COMMENTS
1	34736-0025		0.35	ISO	SILVER	LEFT	
2	34736-0026	12672850	0.35	ISO	SILVER	RIGHT	
3	34736-0027		0.5 / 0.75	ISO	SILVER	LEFT	
4	34736-0028	12672851	0.5 / 0.75	ISO	SILVER	RIGHT	

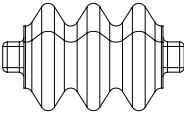
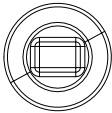


CAVITY PLUGS									
ITEM	MFG	MFG P/N	GM P/N RD	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	12674820	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	12674821	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

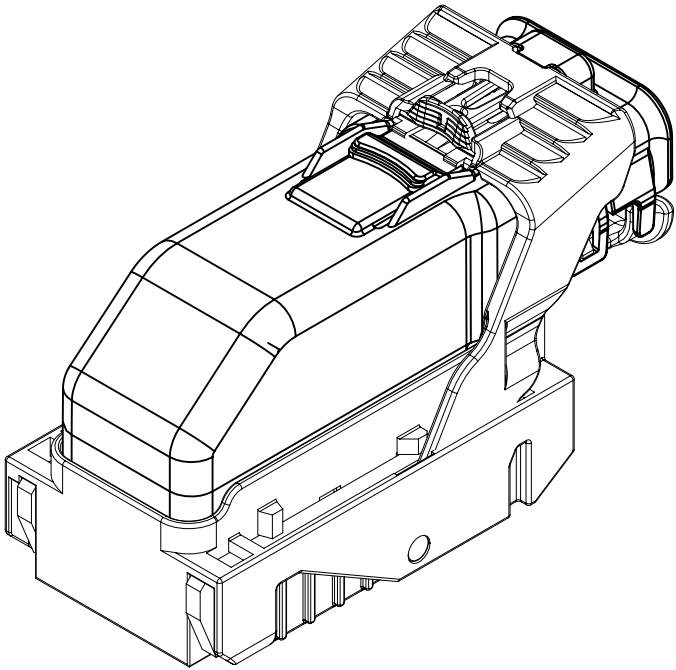
ITEM 1



ITEM 2



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PART BLOCK	3
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ISO VIEW

GM UC CHANGE RESTRICTED NO MANUAL CHANGES DO NOT SCALE METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED: THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM-1997. ALL GEOMETRIC TOLERANCES AND RELATED DATUMS APPLY RFS. RULE #1 (PERFECT FORM AT MMC) DOES NOT APPLY WHEN A RELATIONSHIP BETWEEN FEATURES IS ESTABLISHED BY ORIENTATION OR LOCATION TOLERANCES. SEPARATE POSITION CALLOUTS MAY BE GAGED SEPARATELY REGARDLESS OF DATUM REFERENCES.		DATE			
		REFERENCE		DRAFTER			
		12H (MOLEX AUTOMOTIVE)		APVD1			
				APVD2			
				APVD3			
		APVD4					
		APVD5					
		DRAWING NAME					
		HARNESS CONN ASM-SEALED 52/66/73/80 CKTS,MX123					
		DRAWING NUMBER			PAGE NUMBER		
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				KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR QN 1050)							
				SAFETY/COMPLIANCE FIT/FUNCTION			TOTAL ON DRAWING		4		
							LAST NO. USED		4		
				NO	TYPE	DESCRIPTION		RATIONALE		PAGE/ZONE	
				1	F/F	32.68		IMPROVE CONNECTOR SYSTEM MATING		16	
2	F/F	29.00		INSURE PROPER RELEASE OF LEVER		16					
3	F/F	15.25		INSURE FINAL MATE POSITION		17					
4	F/F	POSITIONAL TOLERANCE (2 PLACES)		INSURE CONNECTOR SYSTEM MATEABILITY		20					
				DRAWING NUMBER		DWG STATUS			PAGE NUMBER		
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						R	001				
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NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL FOR INTERFACE:

- A. RESIN:

1. 30% G.F. PBT; 20% MAX. (BY WEIGHT) REGRIND.

2. MATING CONNECTOR INTERFACE PART COLOR MUST BE SAME AS MATCHING KEYED HARNESS CONNECTOR ASSEMBLY.

3. MUST BE VALIDATED FOR INDIVIDUAL DEVICE APPLICATION REQUIREMENTS.
- B. 0.64MM PINS:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY >= 28% IACS AT 20°C; TENSILE STRENGTH >= 635 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: SILVER (Ag). PLATING TO BE 1.9-3.3 µm ELECTRODEPOSITED SEMI-BRIGHT SILVER OVER 1.25-2.25 µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).

3. ANTI-TARNISH: SYNTHETIC HYDROCARBON CONTACT SURFACE FINISH OR EQUIVALENT APPLIED WITHOUT VOID TO CONTACT AREA (MIN 3.7mm FROM PIN TIP).
- C. 2.8MM BLADE:

1. BASE MATERIAL: COPPER ALLOY; CONDUCTIVITY>= 28% IACS AT 20°C; TENSILE STRENGTH >= 350 N/mm²; SURFACE ROUGHNESS R_a 6 MAX.

2. PLATING FINISH: TIN. PLATING TO BE 2.5-5.0 µm ELECTRODEPOSITED TIN, MATTE FINISH OVER 1.25-2.5µm DUCTILE SULPHAMATE NICKEL PER NOTE 1(D).
- D. PLATING REQUIREMENTS:

1. SILVER PLATING

α. 99.5% PURE SEMI-BRIGHT WITH NO ORGANIC BRIGHTNERS OR CHROMATES.

2. NICKEL PLATING

α. ELECTRODEPOSITED DUCTILE SULFAMATE NICKEL WITH A NON-BRIGHTENED FINISH. NO ORGANIC OR BRIGHTENING AGENTS SHALL BE ALLOWED.

b. SHALL ONLY BE USED AS AN UNDERLYING PLATING AND MAY NOT BE USED AS AN ELECTRICAL CONTACT SURFACE PLATING.

c. SHALL BE NODULE FREE WHEN VIEWED AT 10X MAGNIFICATION IN MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA.

d. ALL PLATINGS SHALL HAVE A 1.0% MAXIMUM BY WEIGHT IMPURITIES. IMPURITIES ARE DEFINED AS ALL ELEMENTS NOT THE PRIMARY PLATING OR HARDENING AGENT IF APPLICABLE, AS DETERMINED BY WET CHEMICAL ANALYSIS OR AUGER METHOD. NO SINGLE IMPURITY SHALL EXCEED 0.1% MAXIMUM BY WEIGHT.

3. TESTING

α. THICKNESS TO BE MEASURED IN CONTACT SURFACE AREA PLUS 0.5MM PERIMETER AROUND THE CONTACT SURFACE AREA AS DESIGNATED IN THE DRAWING. THICKNESS SHALL BE DETERMINED BY METHOD OF X-RAY (XRF).

b. PLATING ADHESION SHALL BE TESTED BY A BEND TEST FOR ALL METALS. THE TEST SAMPLE SHALL BE BENT 90 DEGREES TO DETERMINE DEPOSIT ADHESION. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ASTM SPEC B571.
2. DESIGN - GENERAL:
- A. THIS IS A 100% CAD GENERATED PART. THE CAD MATHEMATICAL DATA IS THE MASTER FOR THIS PART. FOR DIMENSIONAL OR ANY INFORMATION NOT SHOWN ON THIS DRAWING, ANALYZE THE CAD MODEL.

B. TOLERANCES:

1. LINEAR

0.X ± 0.30

0.XX ± 0.10

0.XXX ± 0.10

2. ANGULAR

X° ± 3°

3.

1.0

A

B

C

C. MINIMUM WALL THICKNESS REQUIRED: 1.3mm.

D. CORNERS SHOWN AS SHARP TO BE R 0.2 MAX.

E. LETTERING SHALL BE 0.15 MAX RAISED IN 0.20 MAX RECESS PAD. THIS INCLUDES MATERIAL CODE, RECYCLING CODE, CAVITY ID AND DATE CODE.

F-1. PARTS MUST BE FREE OF DISCOLORATION, SALT RESIDUE AND OTHER IMPERFECTIONS THAT AFFECT FIT OR FUNCTION.

F-2. SCRATCHES OR DENTS NOT TO EXCEED 0.013mm IN DEPTH.

G. FOLLOWING PRODUCTION CODES TO BE PERMANENTLY MARKED & HUMAN READABLE TO A LETTER HEIGHT OF 1.5 ±0.5MM X 0.3 MAX DEEP

1. MATERIAL #: XXXXX-XXXX

2. DATE CODE: JJJY (JULIAN DAY, LAST DIGIT OF YEAR)

3. INSPECTION MACHINE CODE + SERIAL #: X_XXXXX
3. DESIGN - MANUFACTURING:
- A. DRAFT TO BE WITHIN TOLERANCE.

B. ALLOWABLE FLASH MAX 0.2 HIGH X MAX 0.13 THICK.

C. ALLOWABLE PARTING LINE MISMATCH 0.2 MAX.

D. EJECTOR PINS MARK TO BE FLUSH TO 0.25 MAX DEPRESSED.

E. ALLOWABLE GATE VESTIGE FLUSH TO 0.25 MAX PROTRUSION.

F. NO EXTERNAL MOLD RELEASE AGENT ALLOWED DURING MANUFACTURING.

G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.

H. ANY PROCESS LUBRICANT REMAINING ON THE TERMINAL MUST NOT VARNISH OR DEGRADE IT'S ELECTRICAL PERFORMANCE UP TO A MAXIMUM CLASS AMBIENT TEMPERATURE PER SAE USCAR-2 FOR 1008 HOURS. PROCESS LUBRICANTS SHOULD BE APPROVED BY THE RESPONSIBLE ENGINEER.

J. OPTIONAL FEATURES PROVIDED FOR AUTOMATION.

K. PART MUST BE FREE FROM BURRS AND SHARP EDGES, WHICH MIGHT BE DETRIMENTAL TO SATISFACTORY ASSEMBLY, SAFE HANDLING OR FUNCTION OF PART.

L. PARTS AS DELIVERED TO ASSEMBLY SHALL BE CLEAN AND FREE OF DEBRIS, RESIDUAL ABRASIVE MATERIAL AND CORROSION PRODUCTS ADVERESLY AFFECTING FUNCTION OR APPEARENCE.

M. RESTRICTED AND REPORTABLE SUBSTANCES FOR PARTS PER GMW3059.
- | | | | | | | | | |
|-------------------------------------|-------------------------|--|--------------------------------|------------|-----|-----|-------------|-------|
| <div><div></div><div>GM</div></div> | PAGE TITLE

NOTES | | DRAWING NUMBER

12672833 | DWG STATUS | | | PAGE NUMBER | |
| | | | | ST | REV | PDI | | |
| | | | | R | 001 | | 6 | OF 22 |

NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING ISO WIRE SIZE NO'S:
0.35mm2, MEETING GMW15626 - MIN OD OF 1.30MM
0.50mm2, MEETING GMW15626
0.75mm2, MEETING GMW15626 - MAX OD OF 2.06MM
- B. CABLE TIE SPECIFICATIONS:
1. CABLE TIE:
TENSILE RATING: 220N / (50lbs) MIN
TIE LENGTH: 186mm MIN
TIE WIDTH: 4.75mm MAX
MATERIAL: NYLON
2. INSTALLATION:
CABLE TIE TENSION: 190N MIN
3. DRESSED WIRE BUNDLE PACKAGING: SEE FIG. 1
- C. WHEN MATED WITH COMPONENT CONNECTOR INTERFACE AND/OR DRESS COVER, HARNESS CONNECTOR SYSTEM CONFORMS TO THE FOLLOWING:
1. SAE/USCAR-2, REV: 3 APRIL, 2001; CLASS 3
2. FIELD CORRELATED LIFE TEST, SAE/USCAR-20, NOV. 2001
3. GMW #3191 AUGUST 22, 2000 (DRAFT); TEMPERATURE CLASS 3, SEALING CLASS 1, VIBRATION CLASS 2
4. RESTRICTED AND REPORTABLE CHEMICALS PER GMW #3059, REV: D AUGUST 2002
5. TPA USER FORCES (FULLY POPULATED WITH TERMINALS)
a. REMOVAL FROM LOCK TO PRE-SET: <=120N
- D. WIRE SPECIFICATIONS:
1. WIRE SURFACE MUST BE FREE OF SCRATCHES, GROOVES OR DENTS WHERE FUNCTIONAL

5. TERMINAL CURRENT RATINGS:

- A. MX64 RCPT TERM
ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

1. MX64 RCPT TERM Ag 0.50/0.75mm2 CRIMPED TO 0.75mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW
2. MX64 RCPT TERM Ag 0.35mm2 CRIMPED TO 0.35mm2 ISO WIRE AND MATED TO MX123 0.64MM PIN: SEE TABLE BELOW

WIRE	CURRENT RATING			
	23°C	85°C	105°C	125°C
0.75mm2	11.3A	11.3A	9.5A	6.6A
0.50mm2	10.0A	10.0A	8.3A	5.7A
0.35mm2	8.5A	8.5A	7.1A	5.0A

- B. 2.8MM RCPT TERM
ALL TESTING DONE IN ACCORDANCE WITH MOLEX DVP&R 0279 (TR # 7125)

1. 2.8MM RCPT TERM TIN 2.0mm2 CRIMPED TO 2.0mm2 ISO WIRE AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS AT 125° C

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS - SEE GM DRAWING 13507496

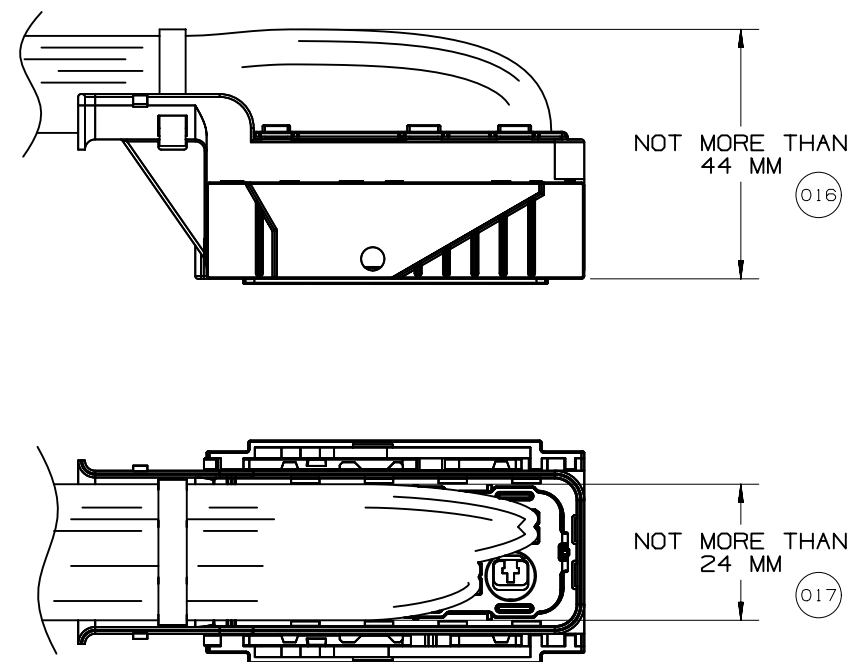
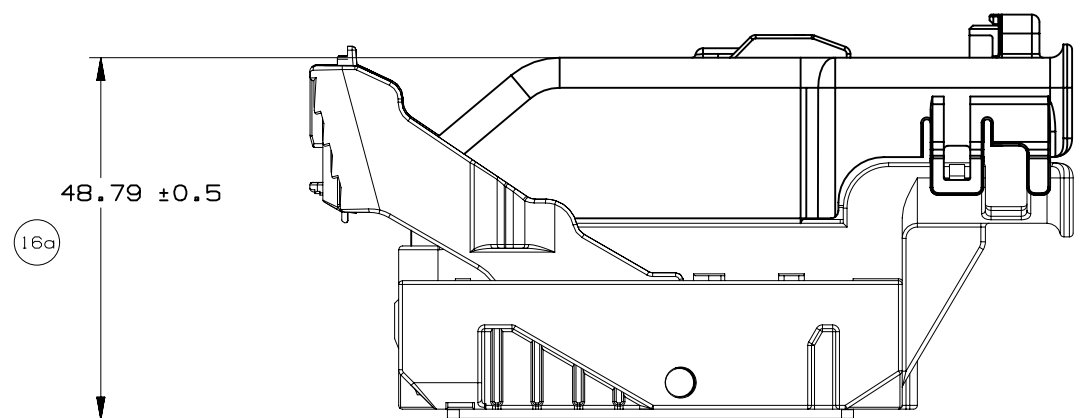
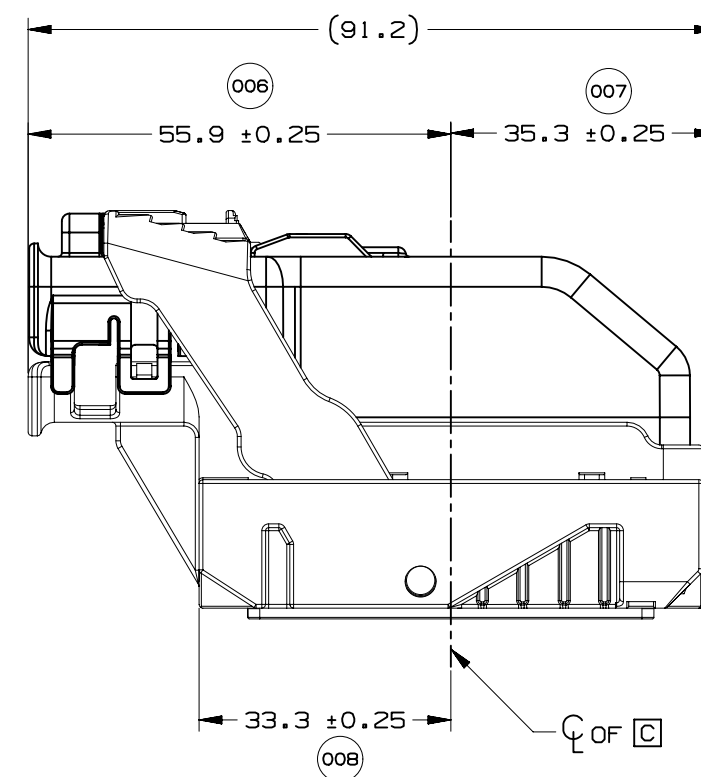
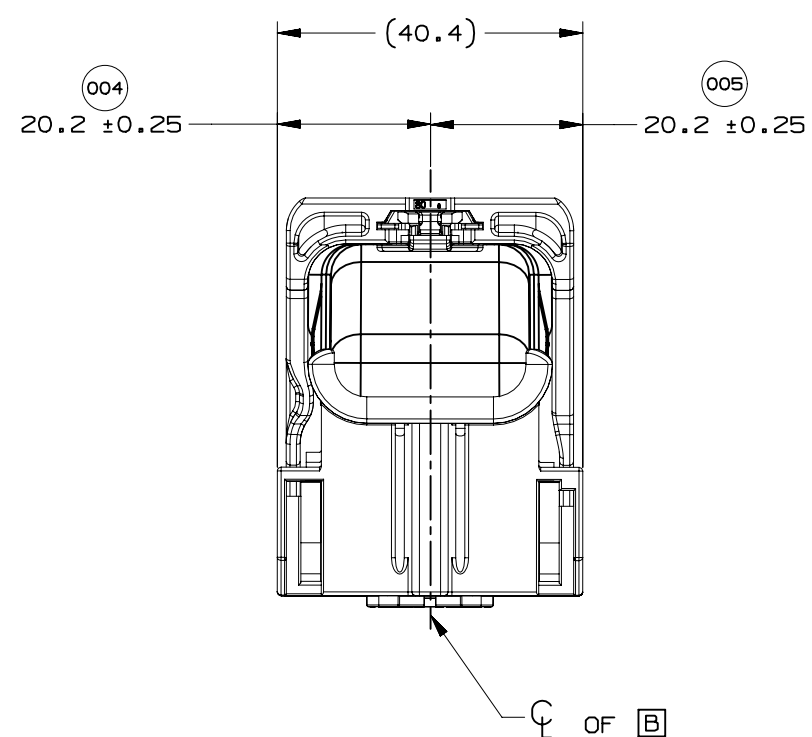
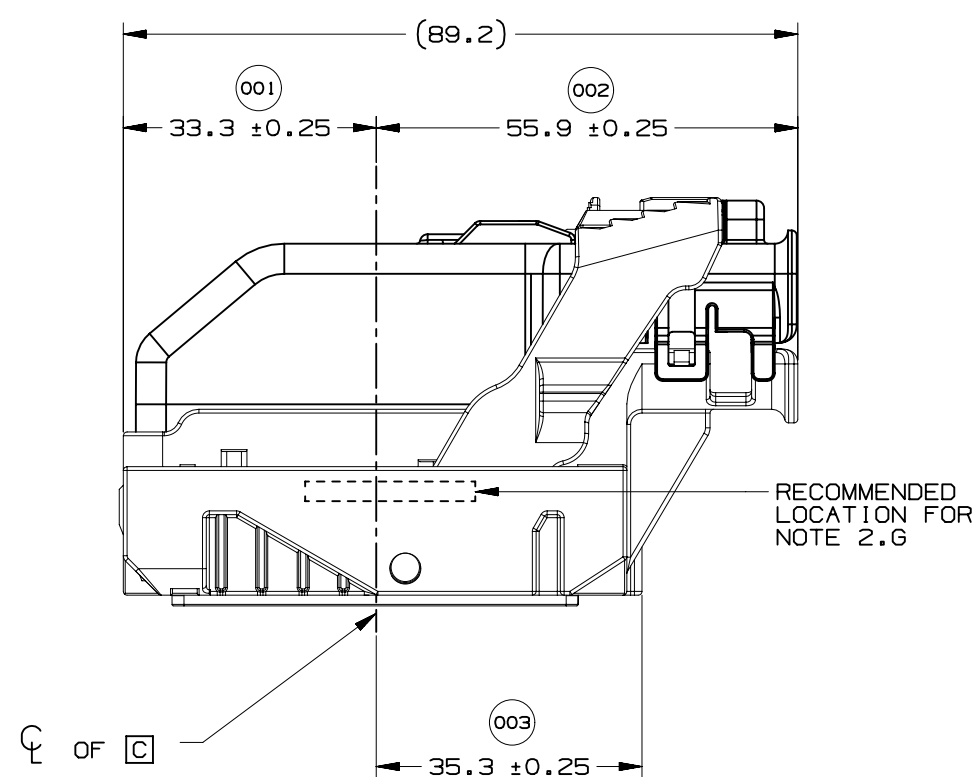
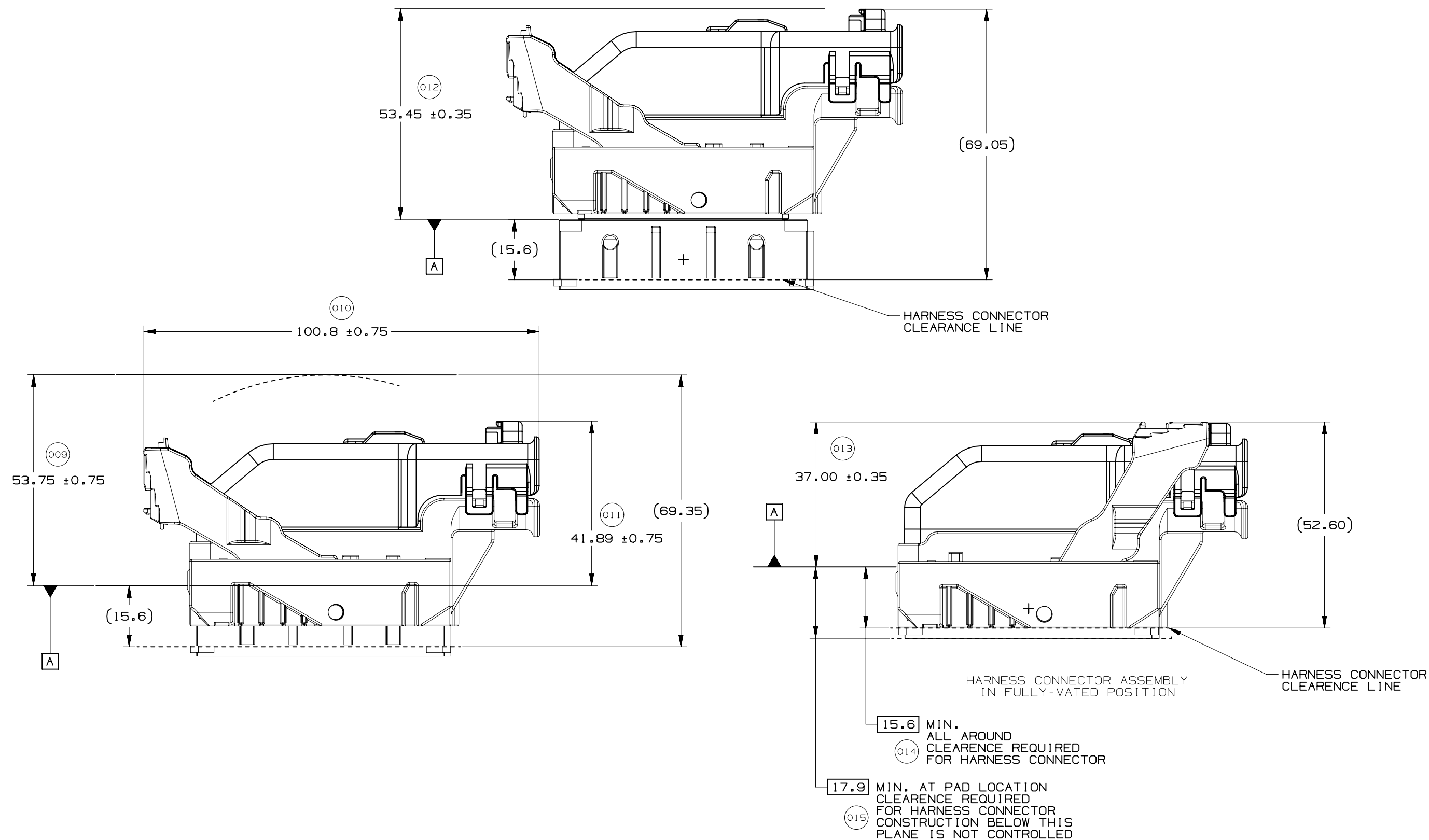


Fig. 1







PAGE TITLE
LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUM A

DRAWING NUMBER

12672833

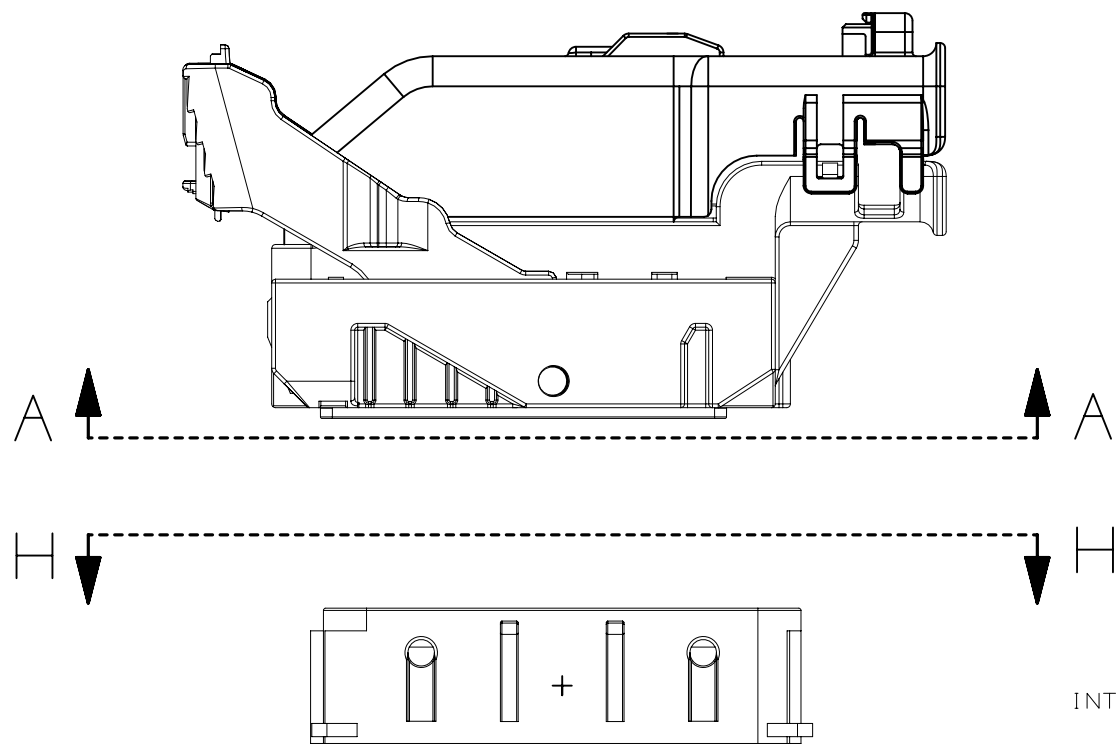
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ST REV PDI

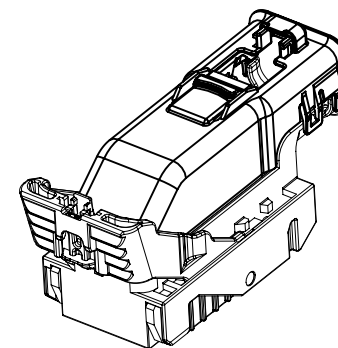
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PAGE NUMBER

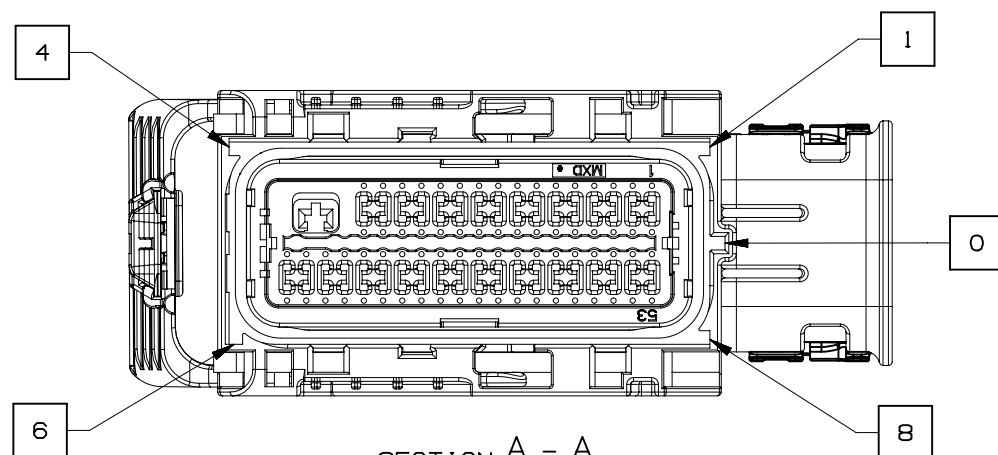
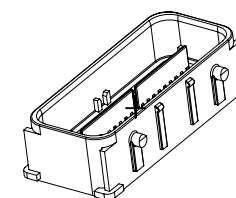
10 OF 22



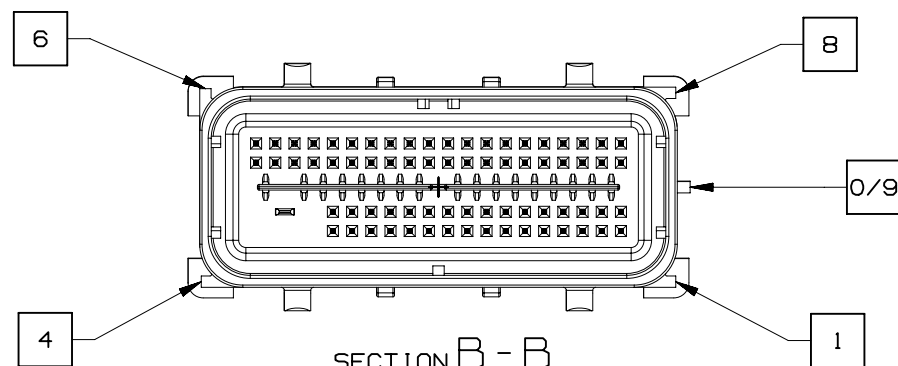
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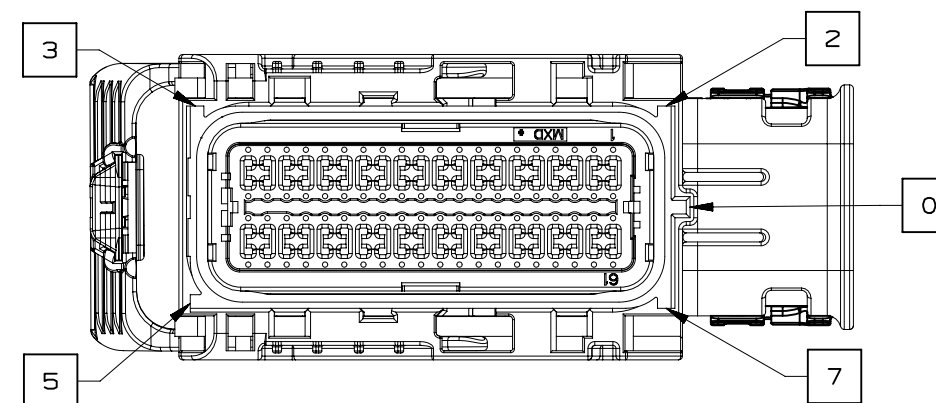
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



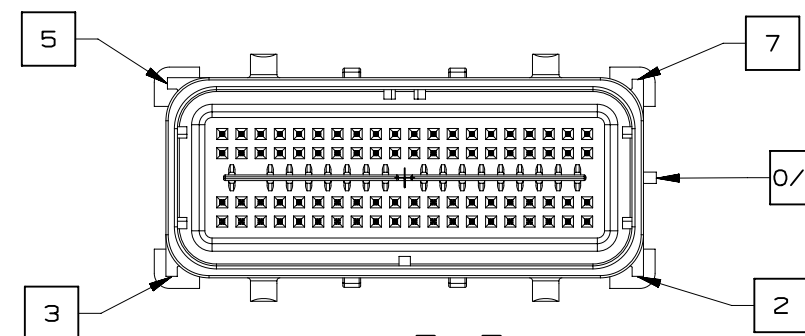
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



SECTION B - B
73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



SECTION A - A
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



SECTION B - B
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN



PAGE TITLE

KEY ID REF - WIRE DRESS OPTION 0

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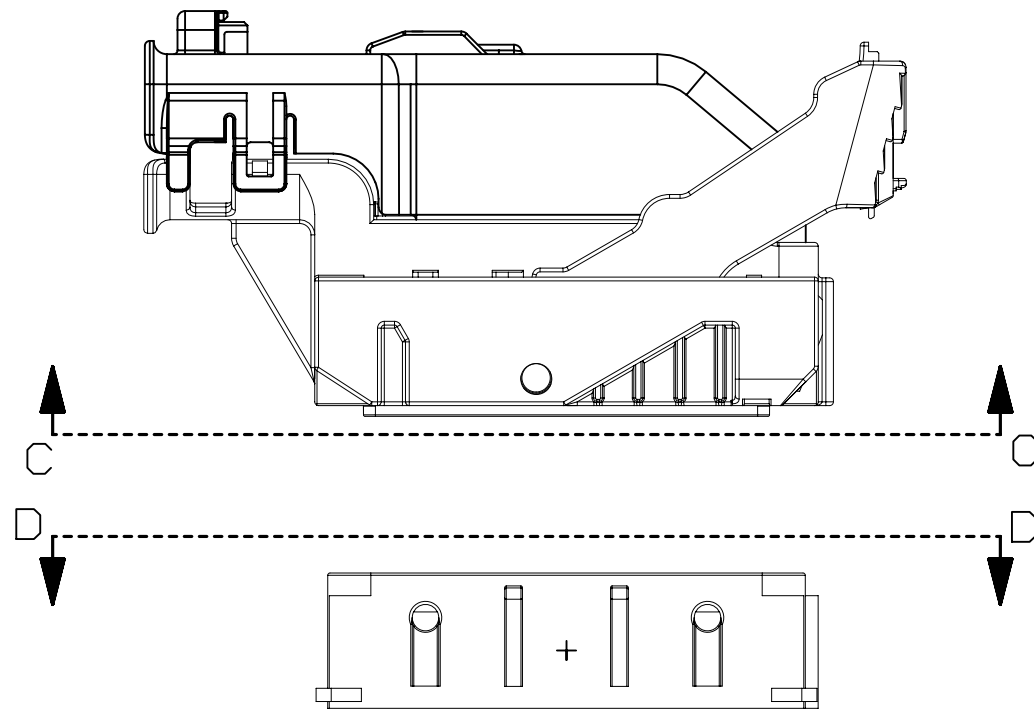
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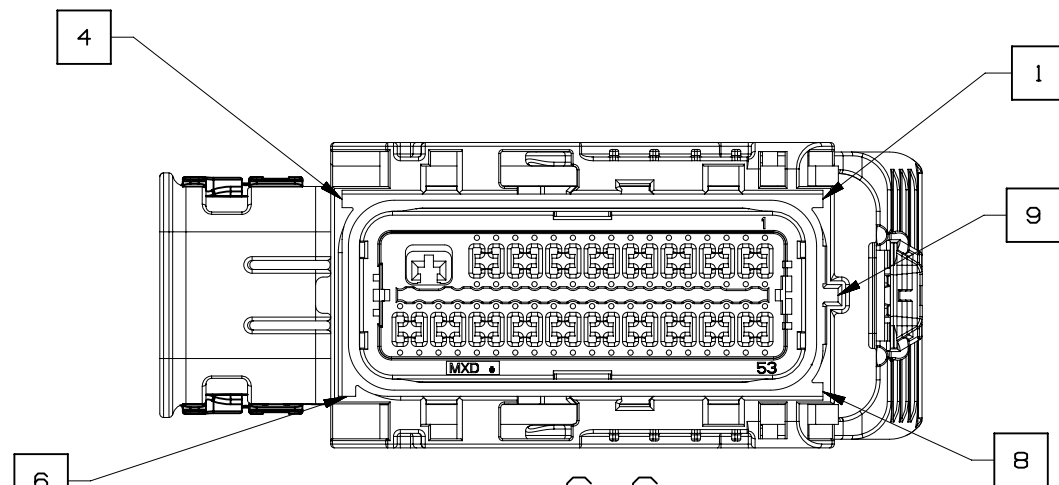
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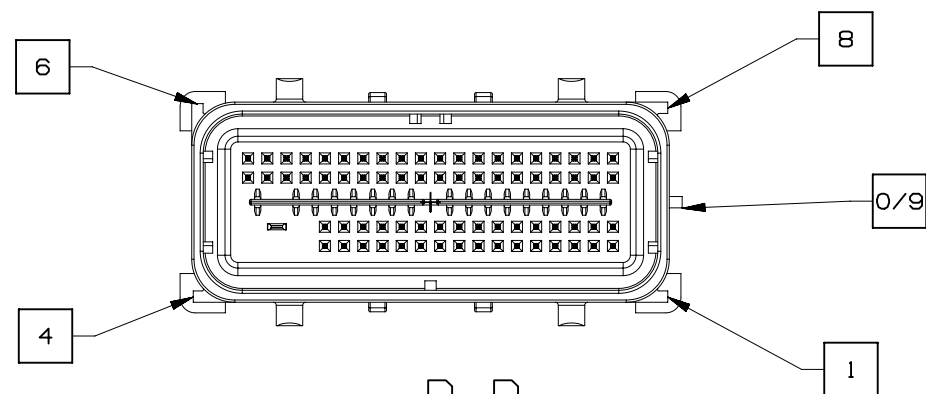
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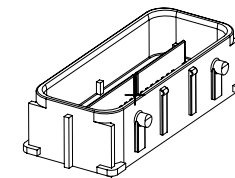
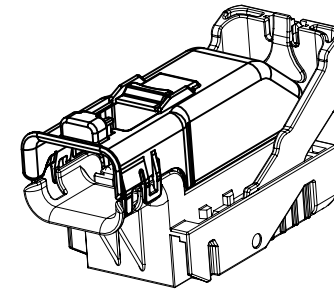
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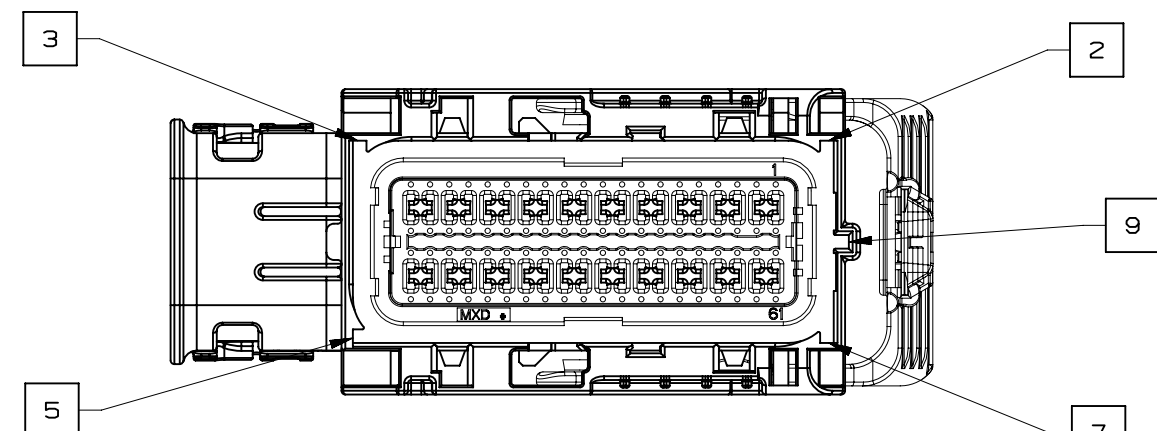
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73 CKT HARNESS CONNECTOR ASSEMBLY
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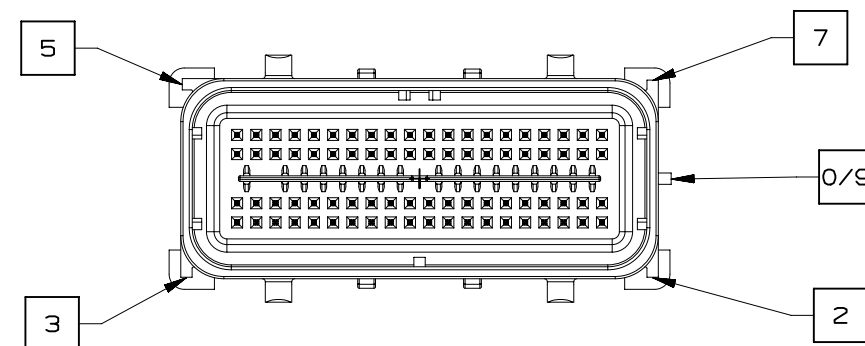
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NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



SECTION C - C
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KEY OPTION K SHOWN



SECTION D - D
80 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION K SHOWN

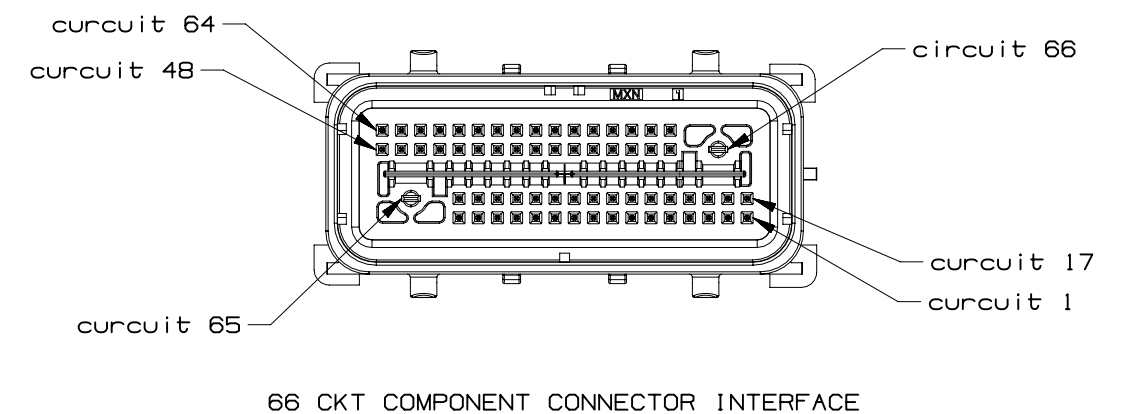
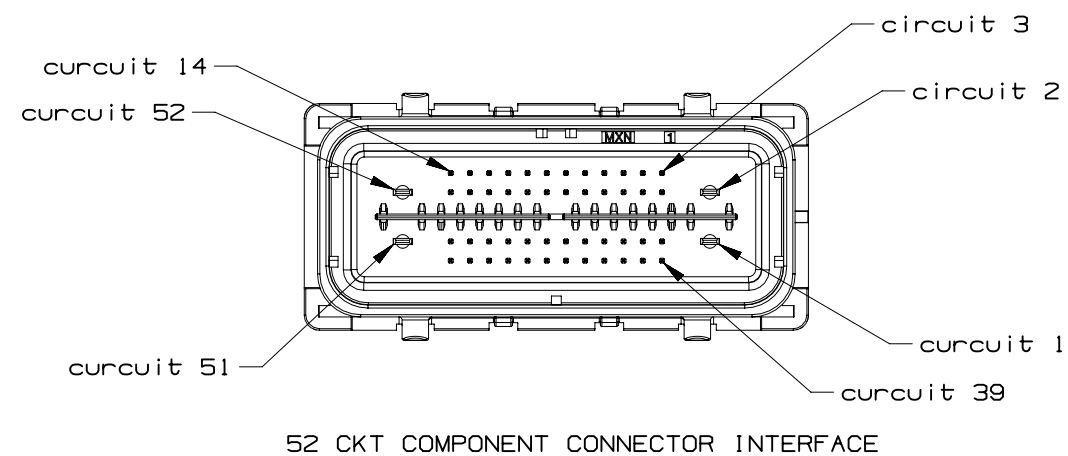
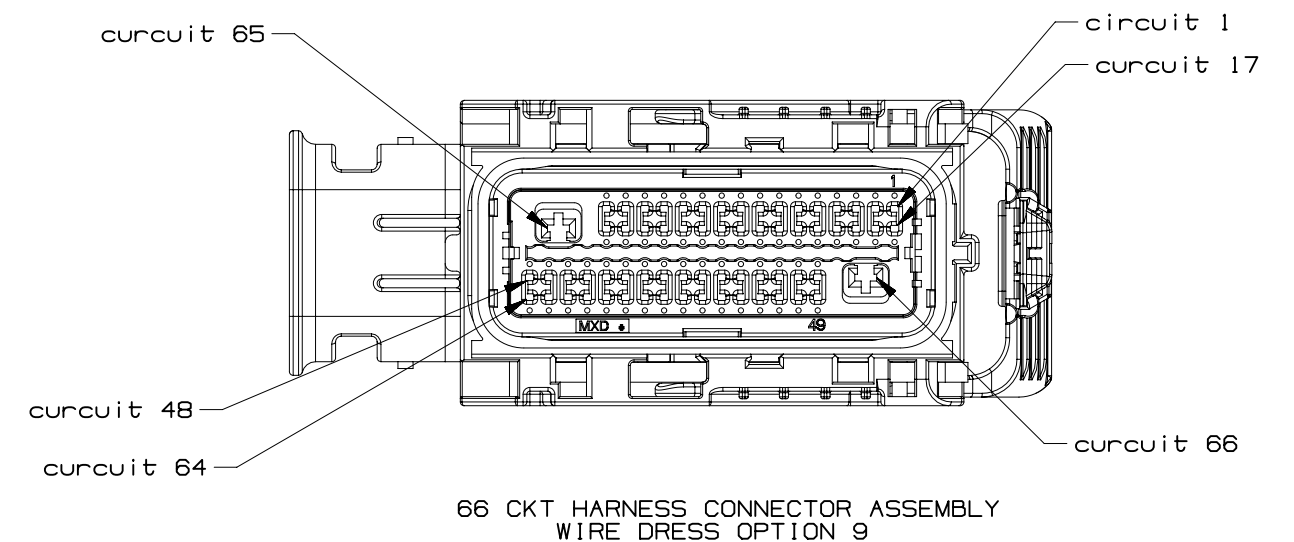
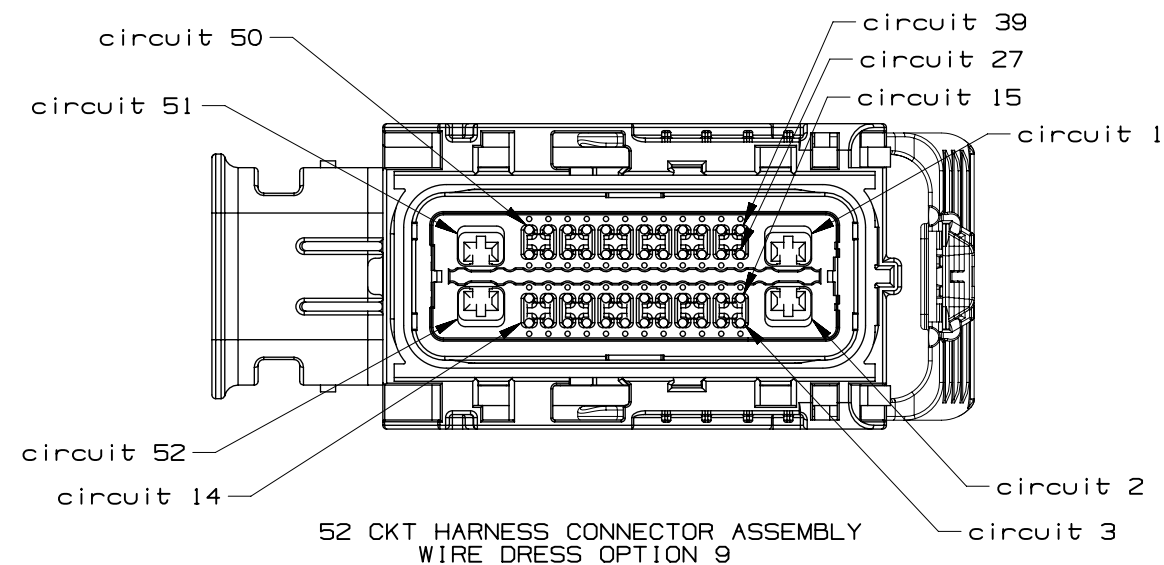
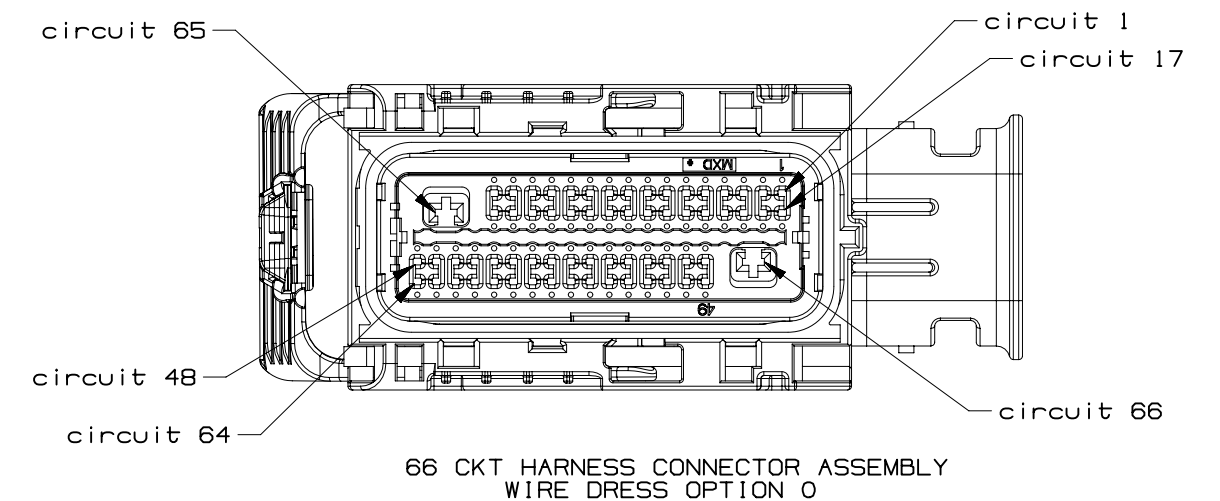
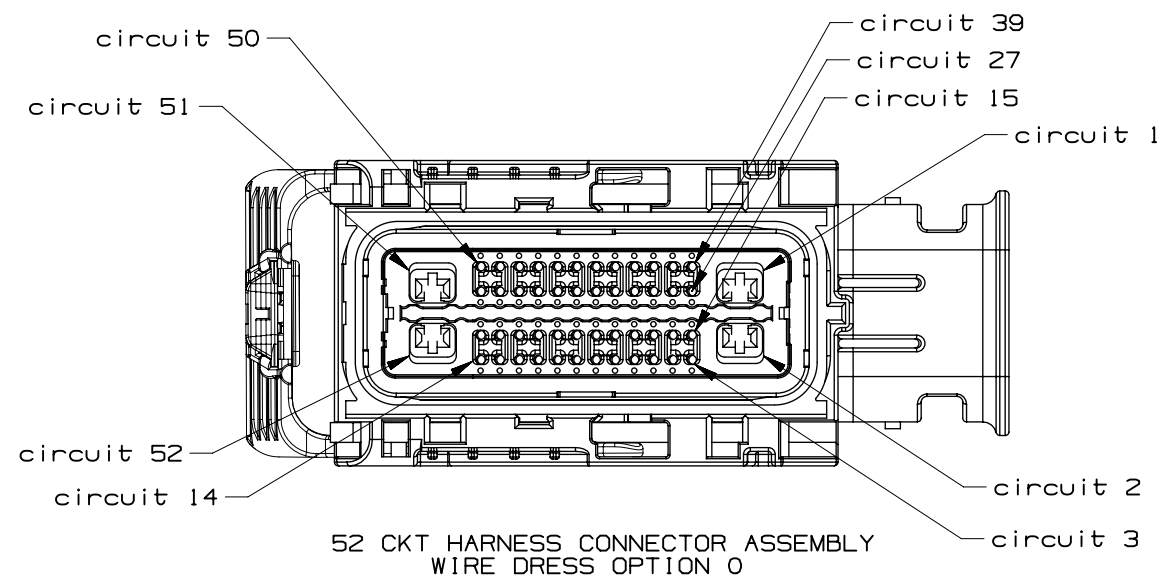


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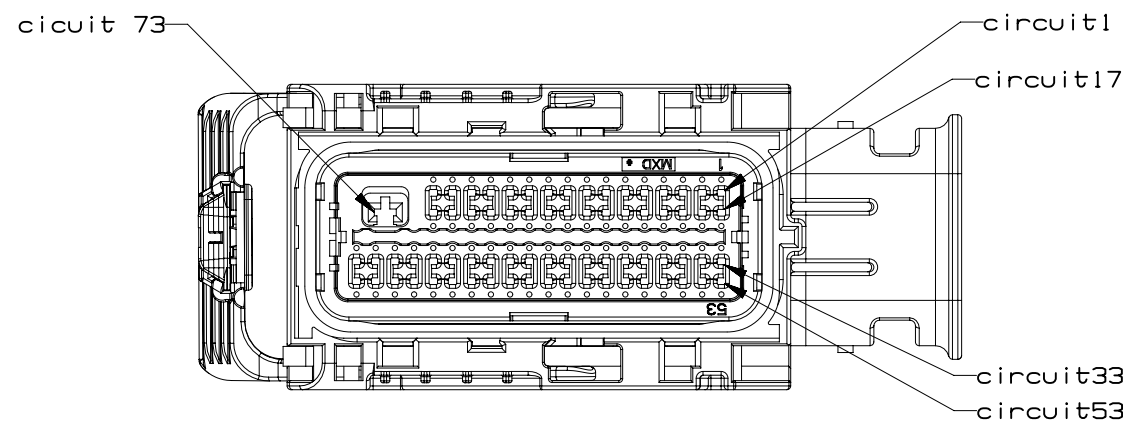
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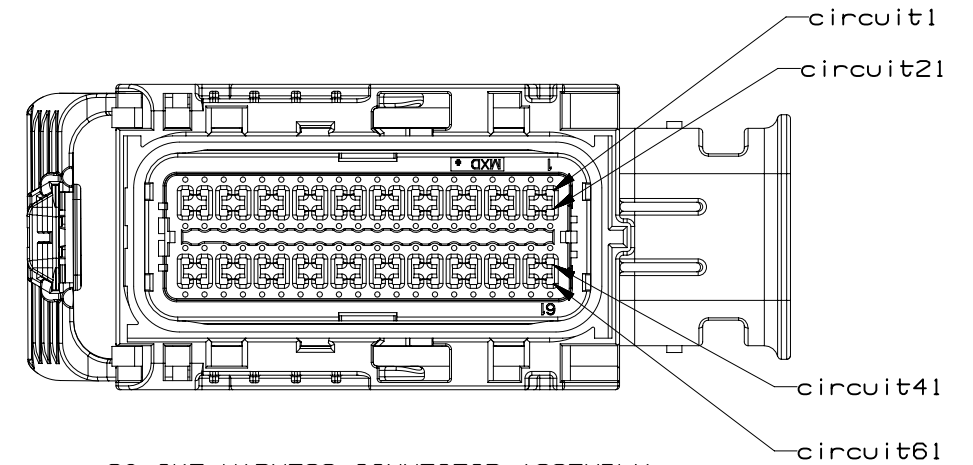
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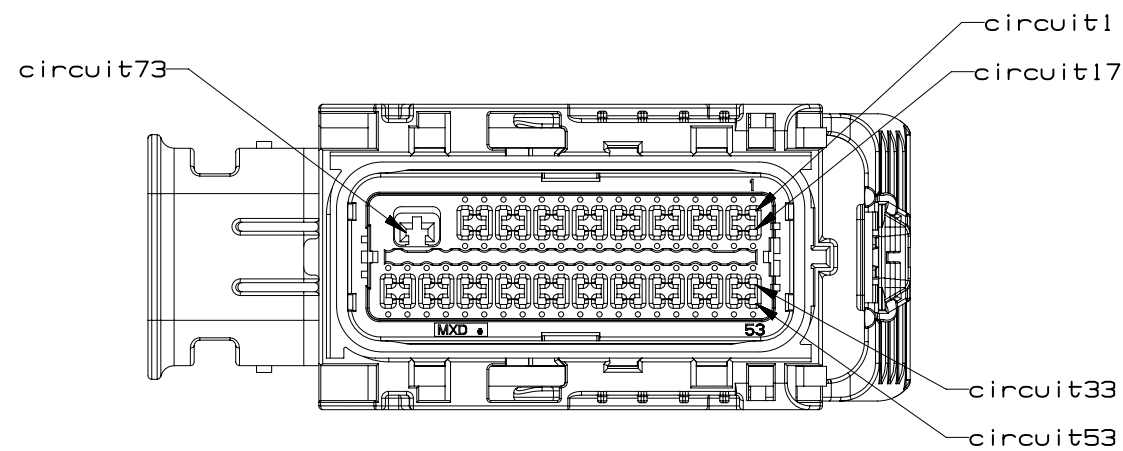


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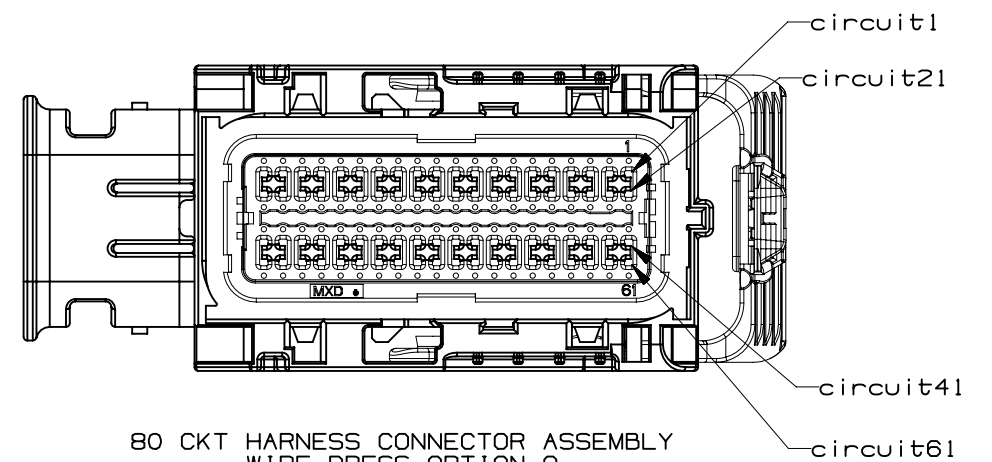


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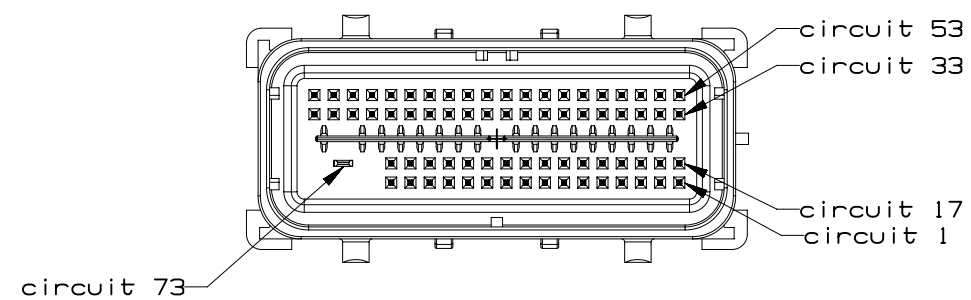
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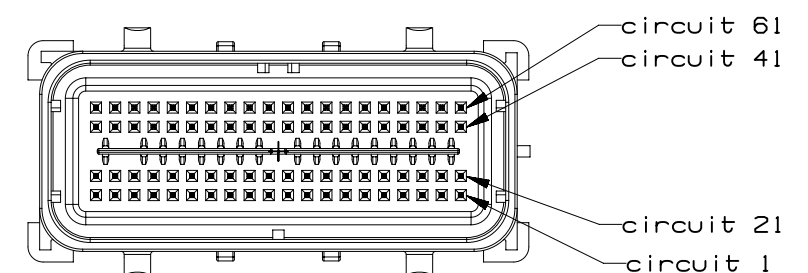
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WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

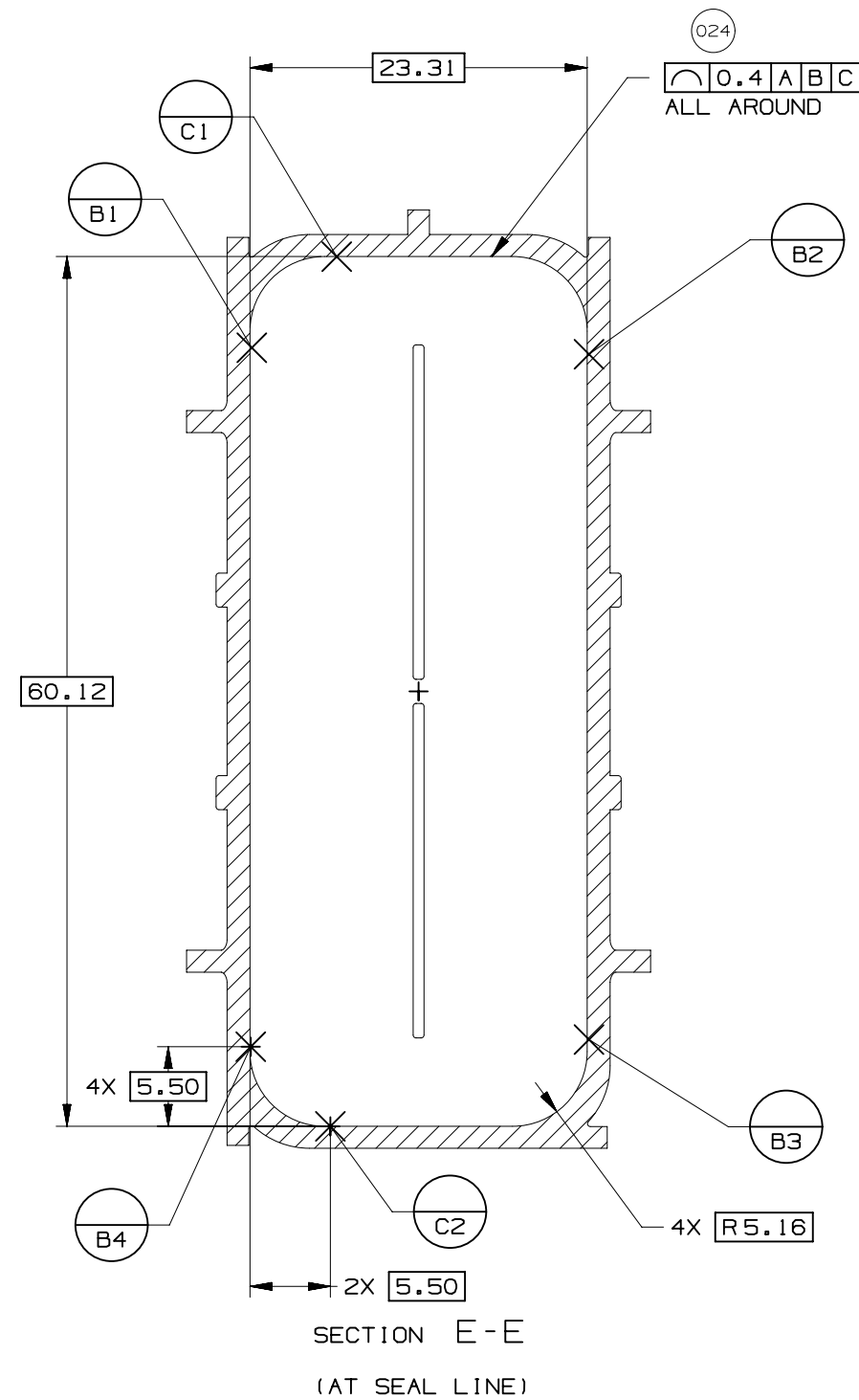
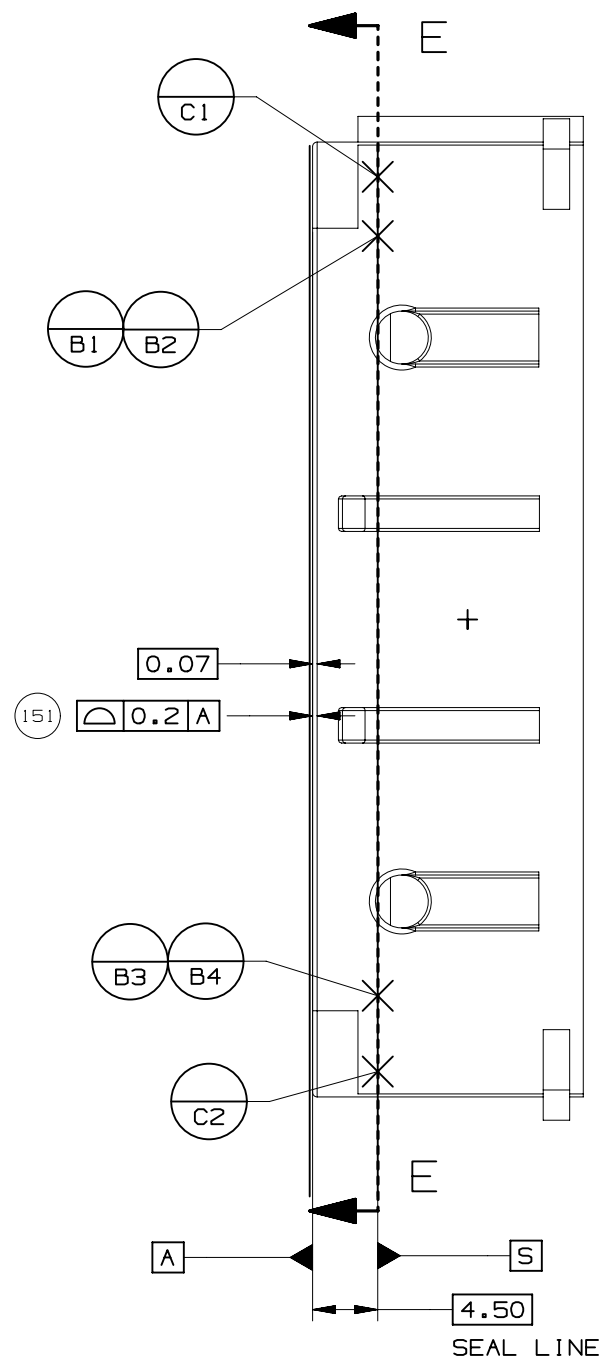
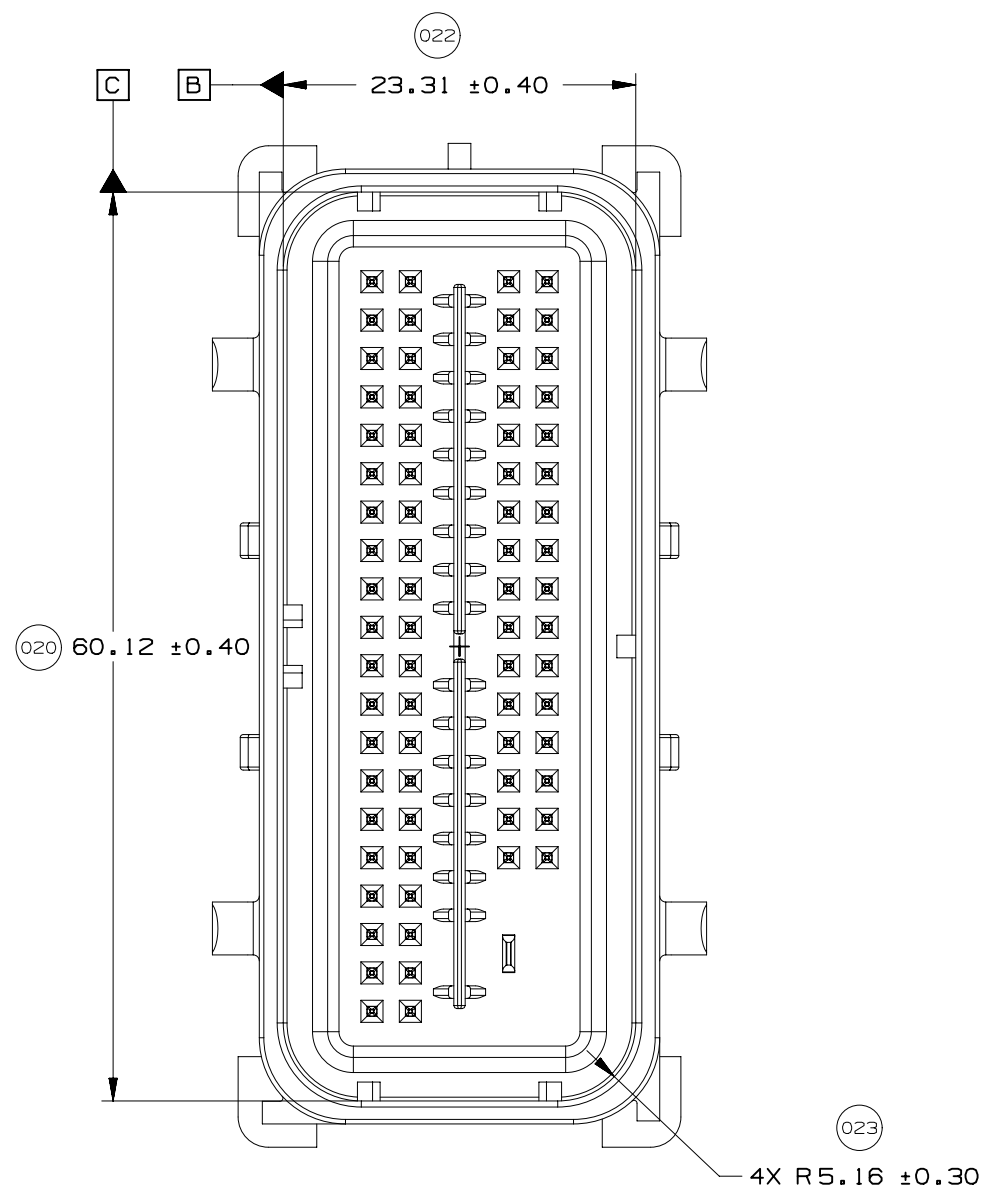
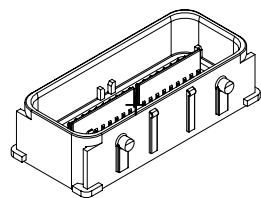


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE





UNLESS SPECIFIED, TOLERANCE OF THE COMPONENT CONNECTOR INTERFACE TO BE 0.13 A B C

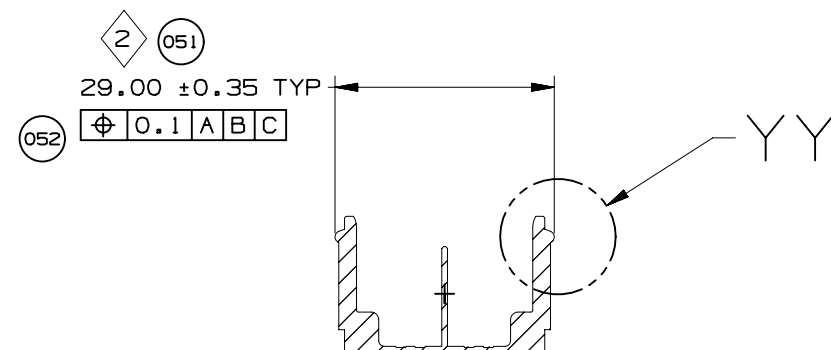
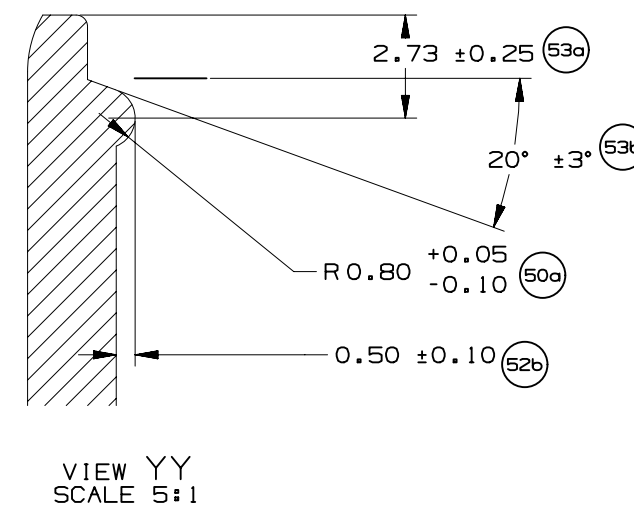
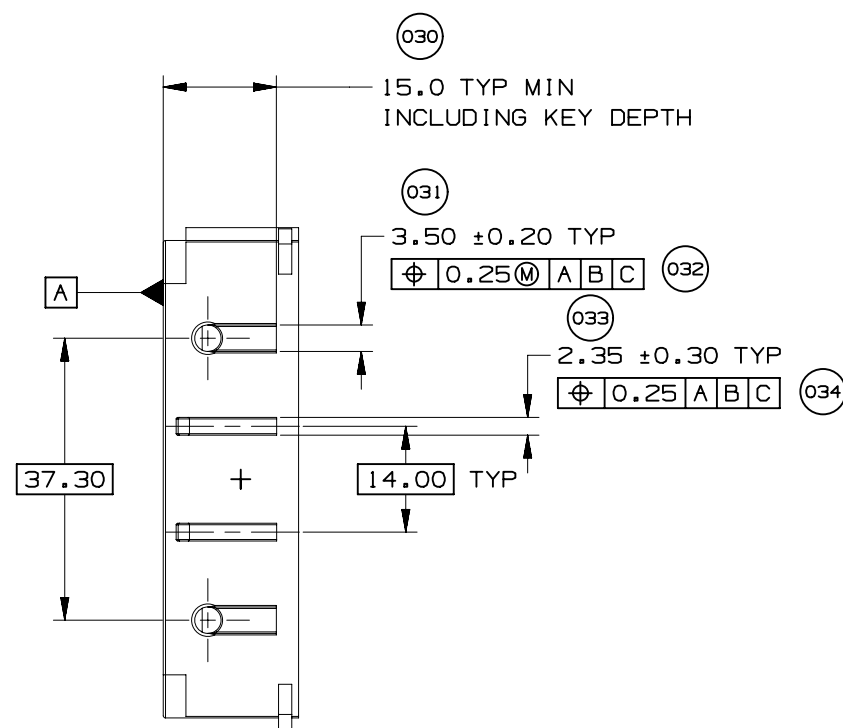
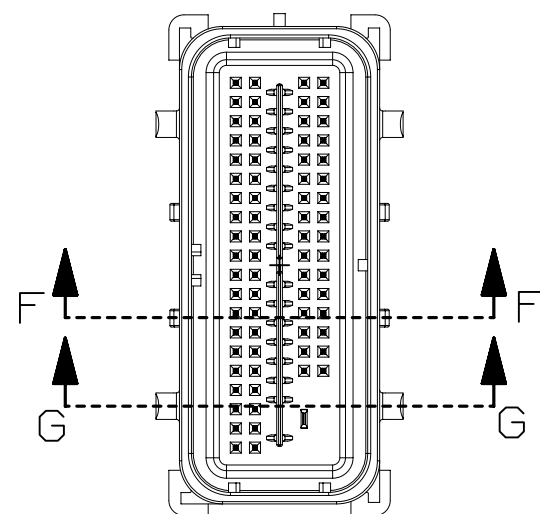


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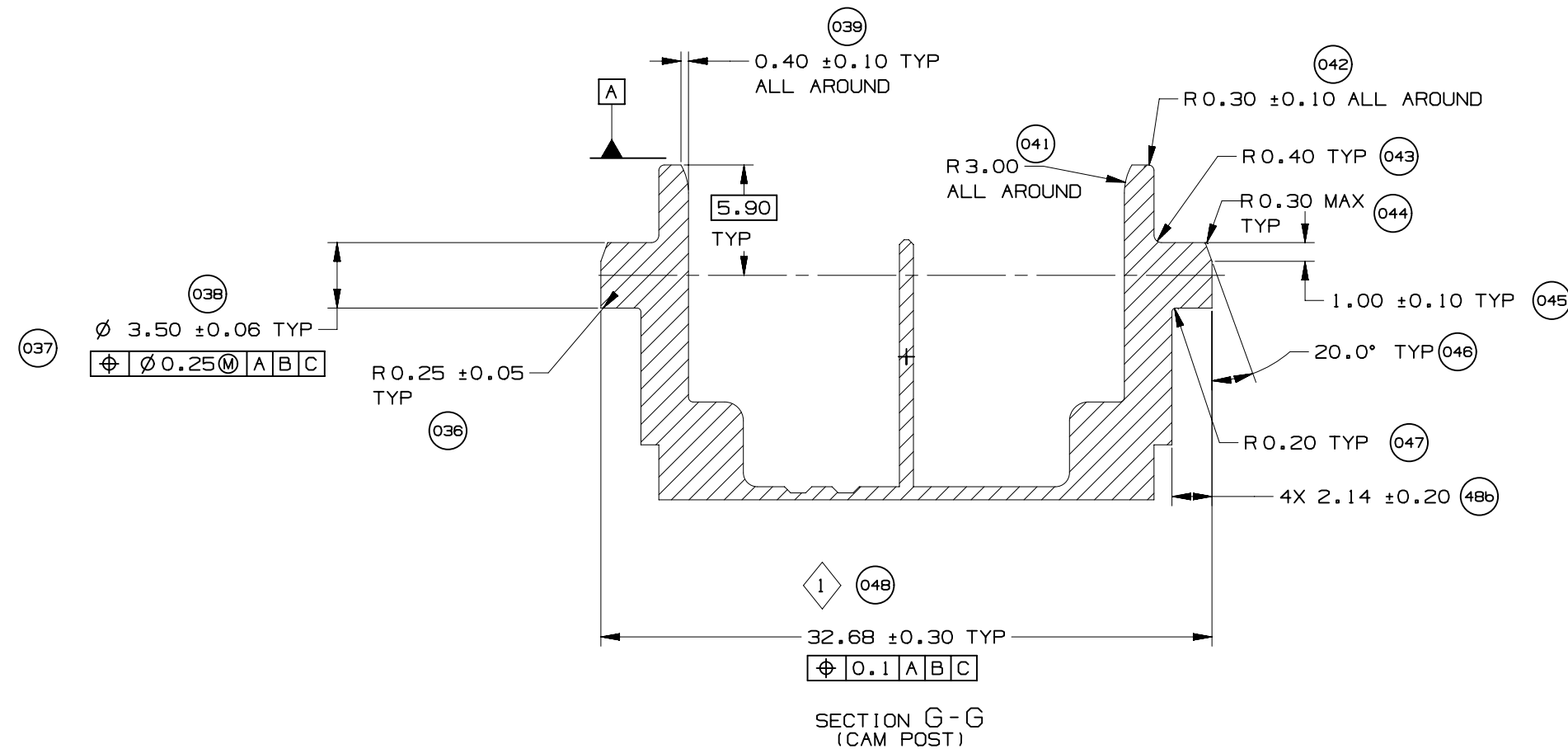
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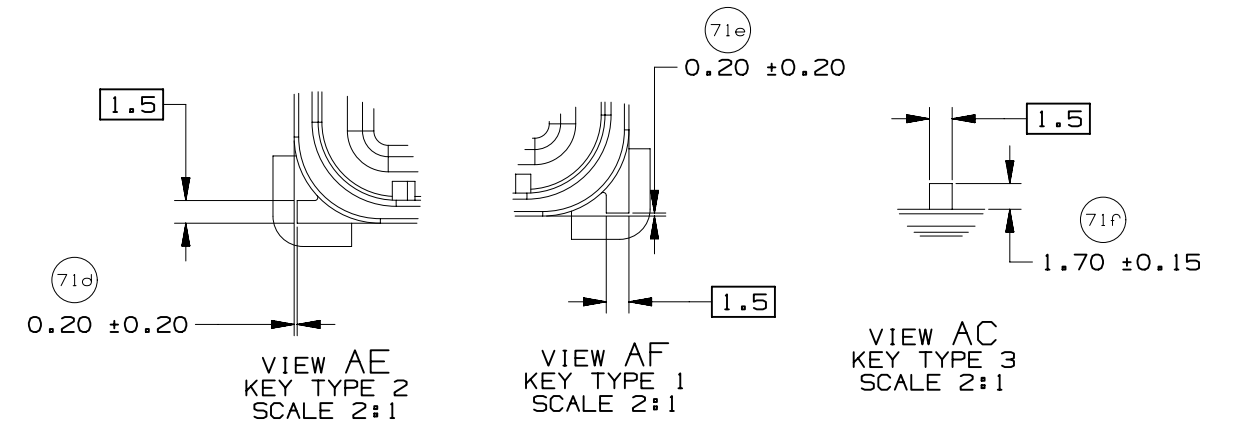
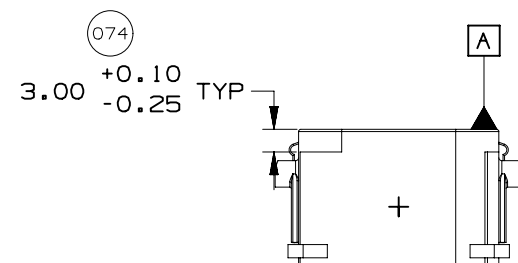
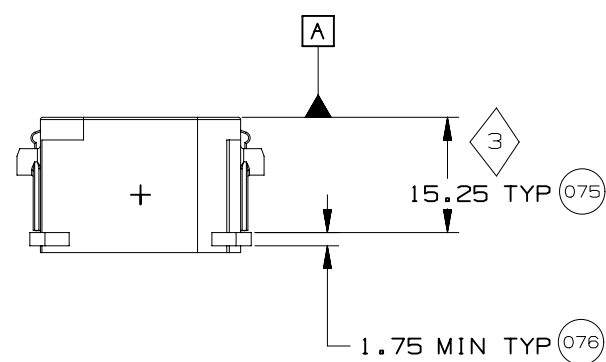
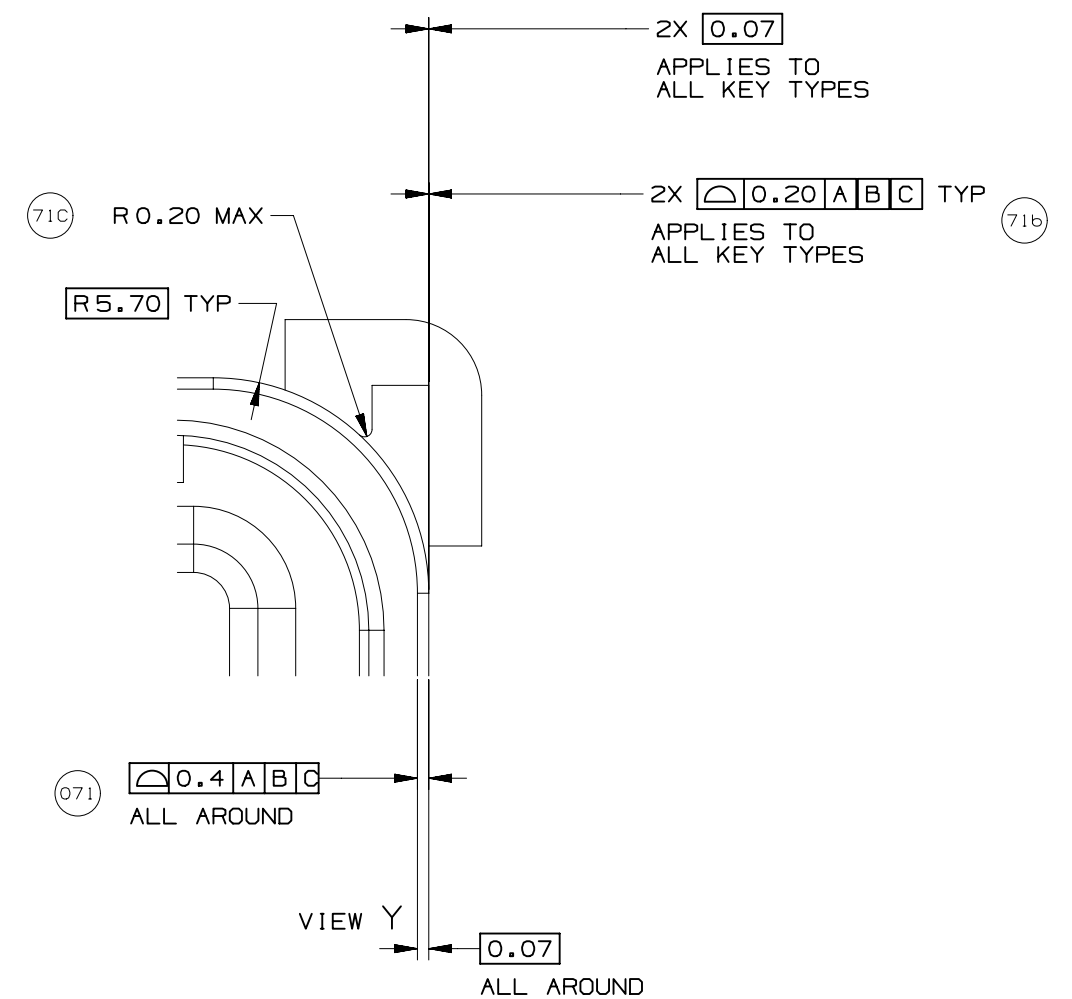
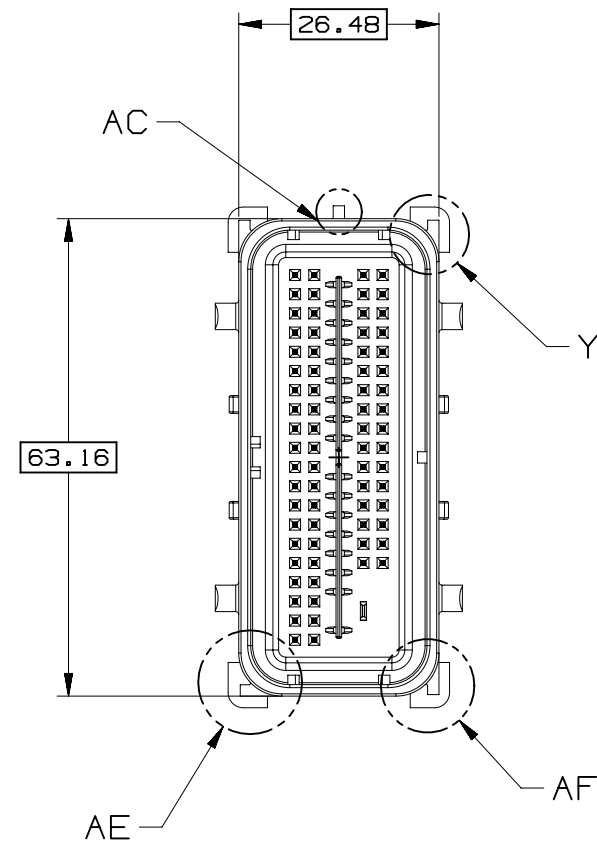
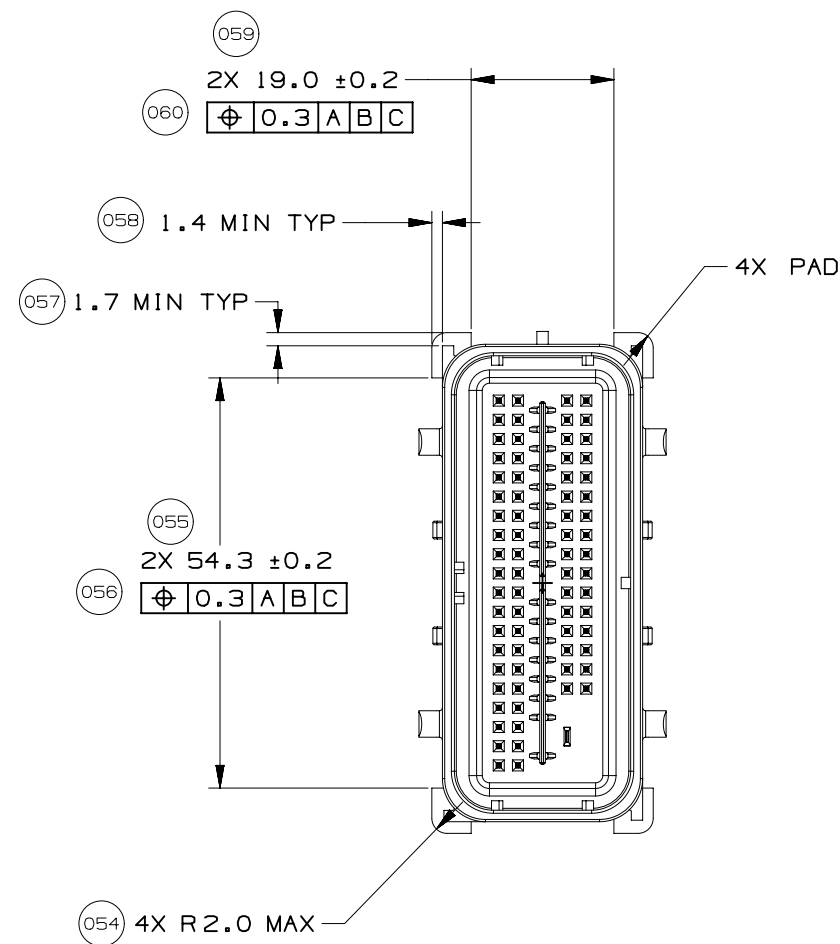
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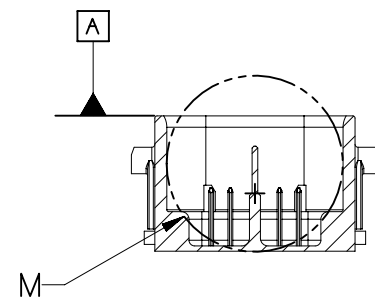




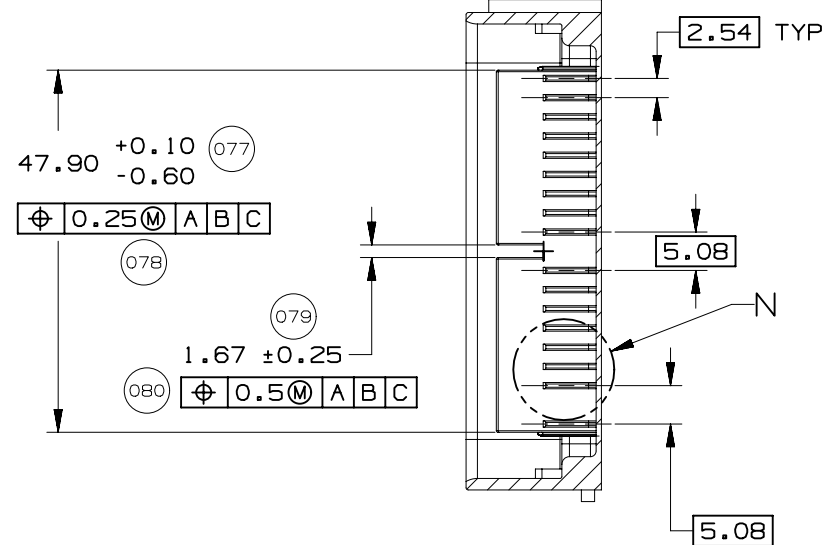
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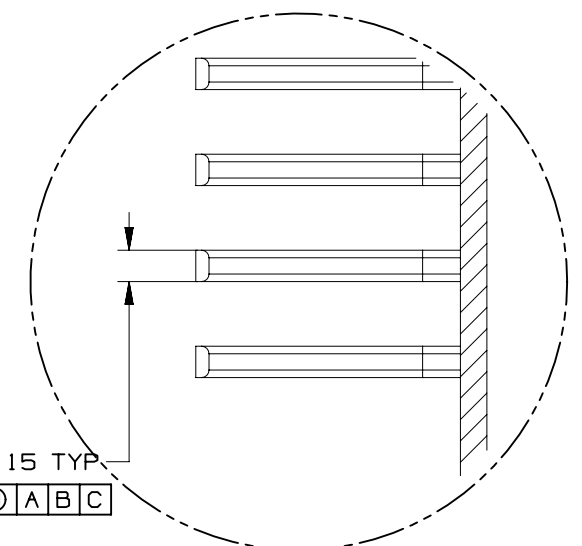
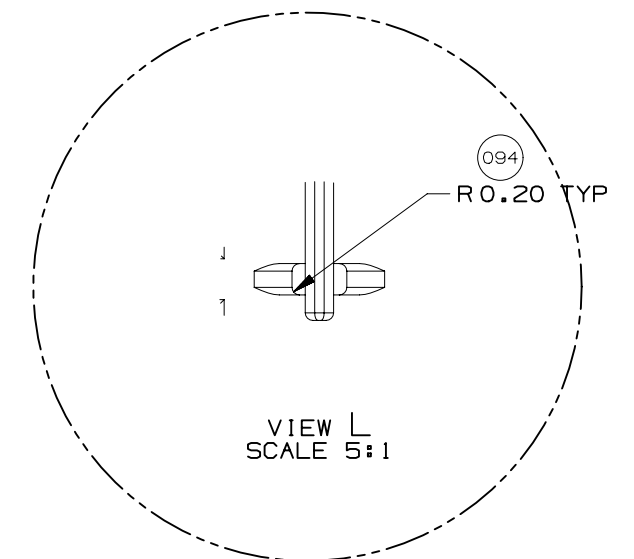
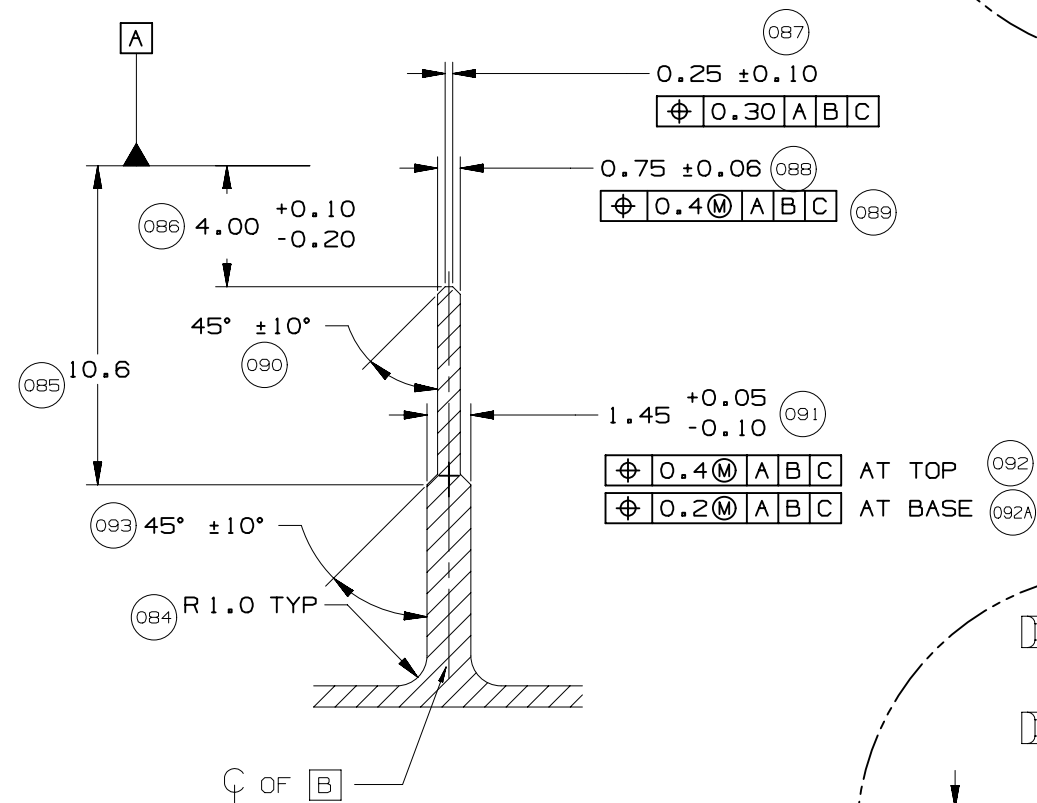
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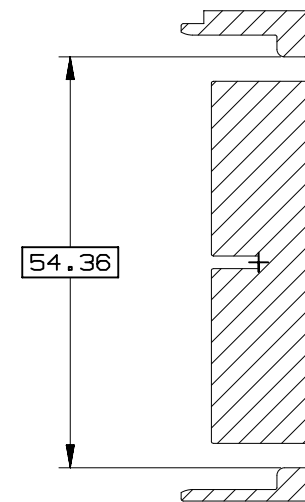
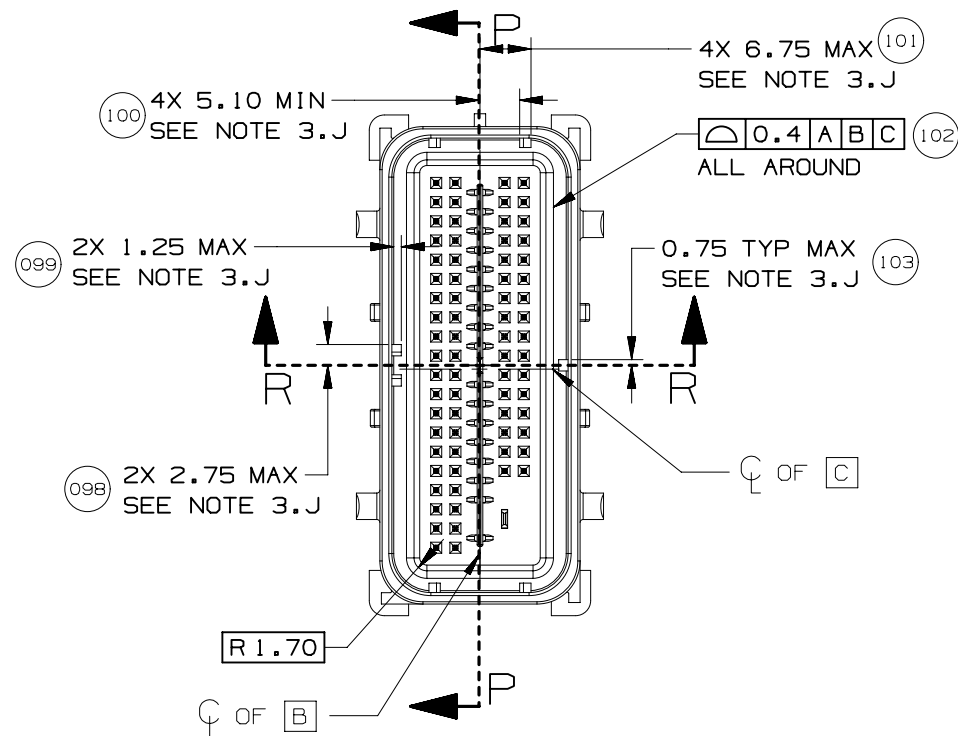
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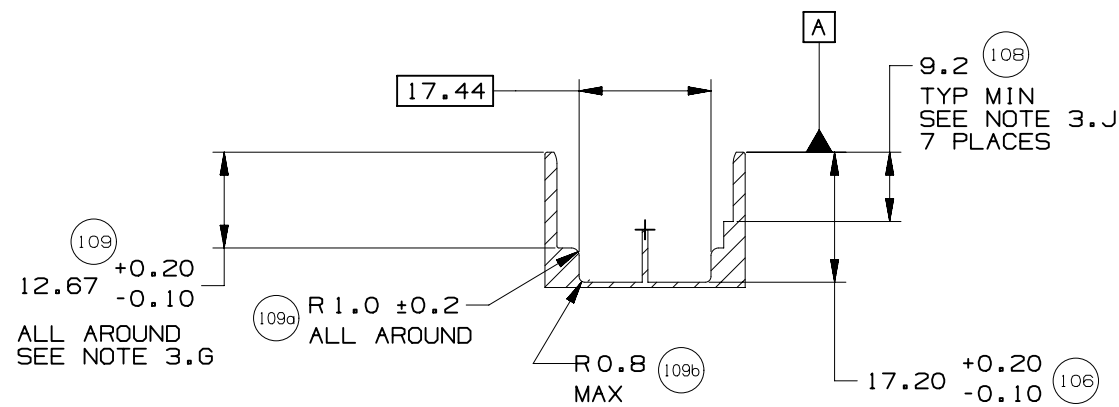
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TYPICAL
SCALE 4:1



DETAIL N
SCALE 5:1



SECTION P-P



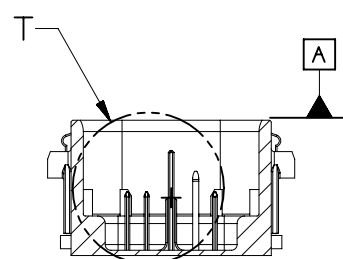
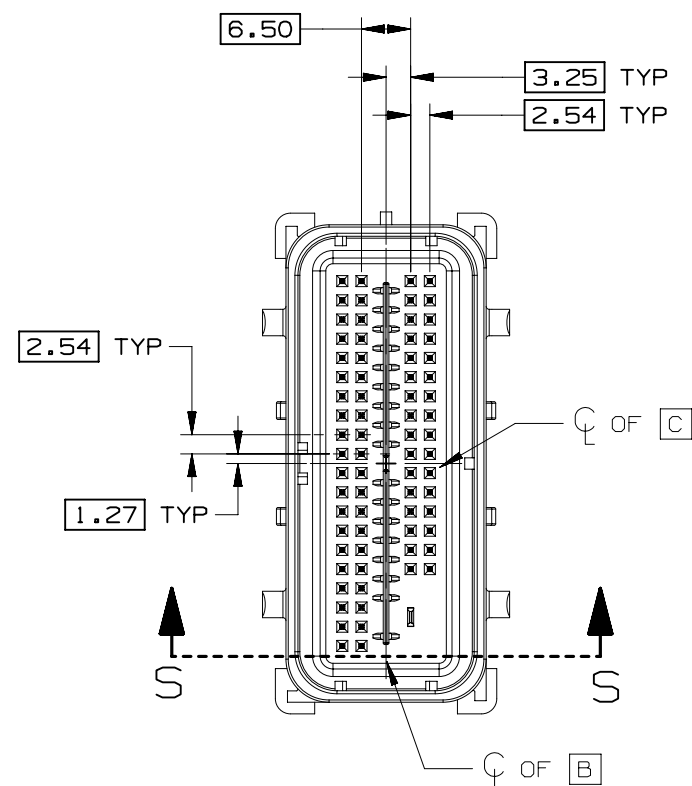
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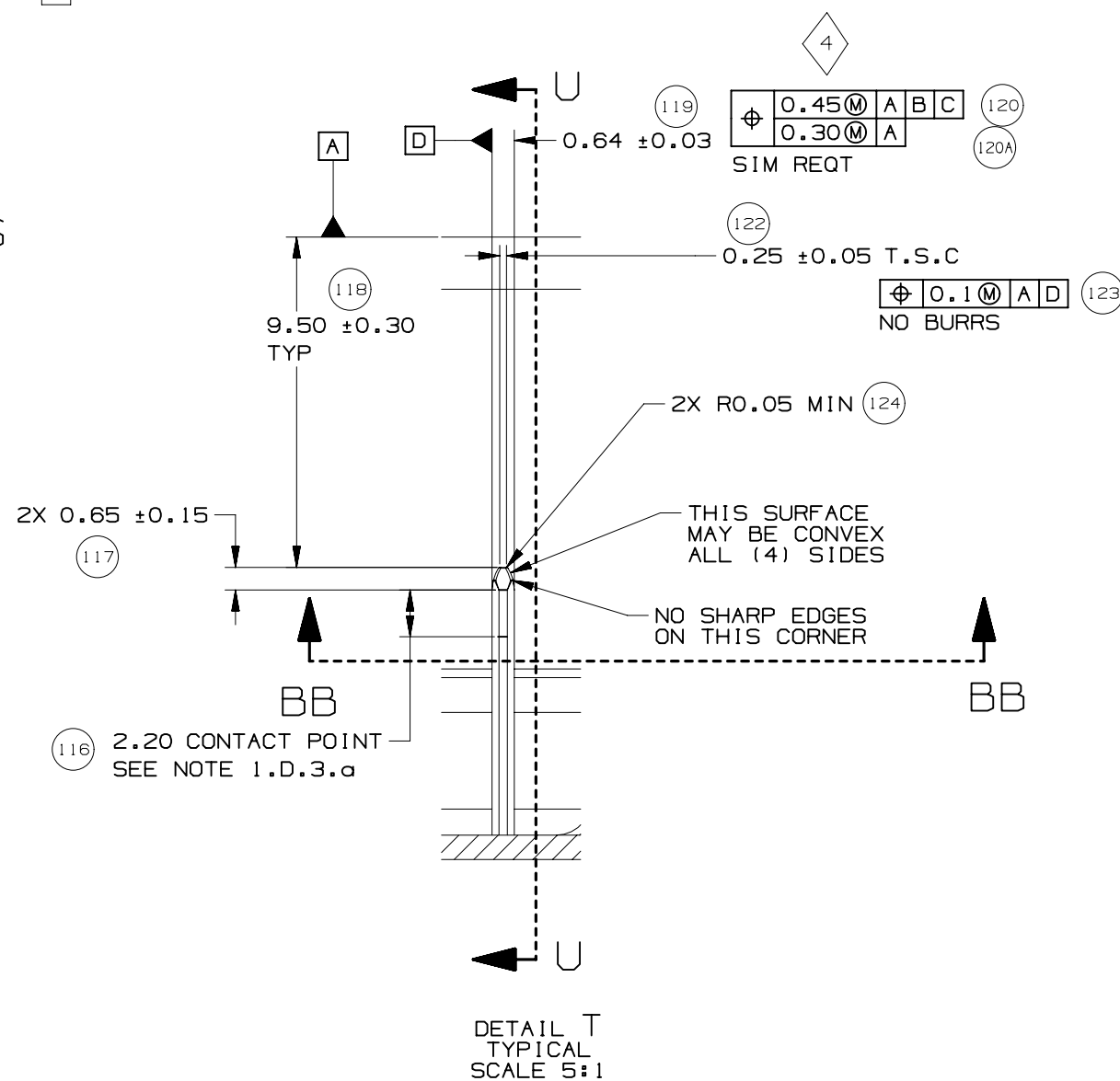
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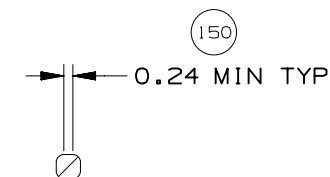
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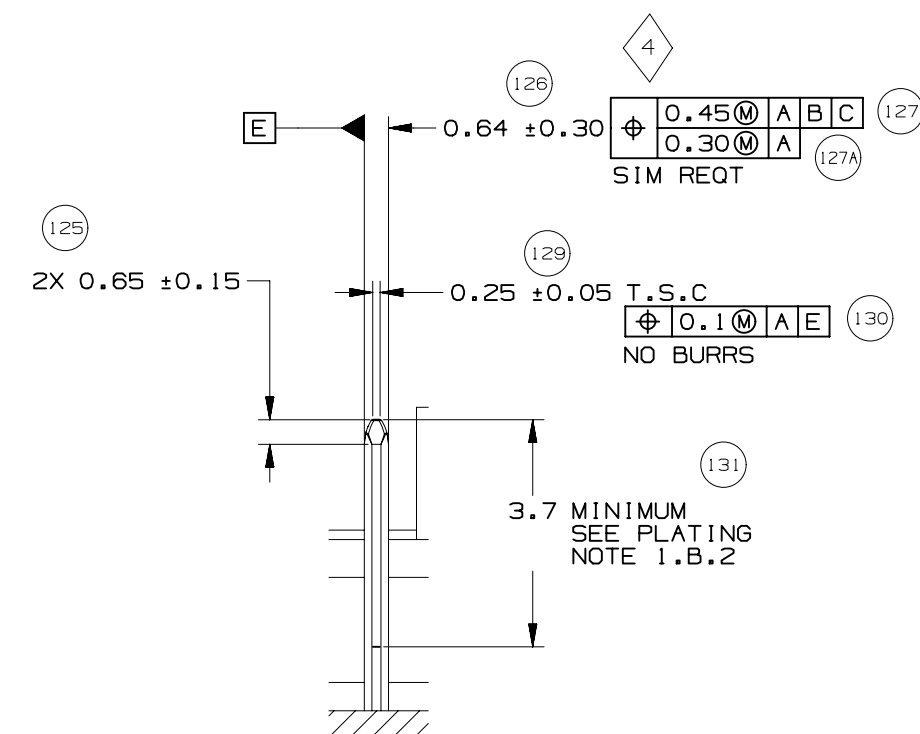
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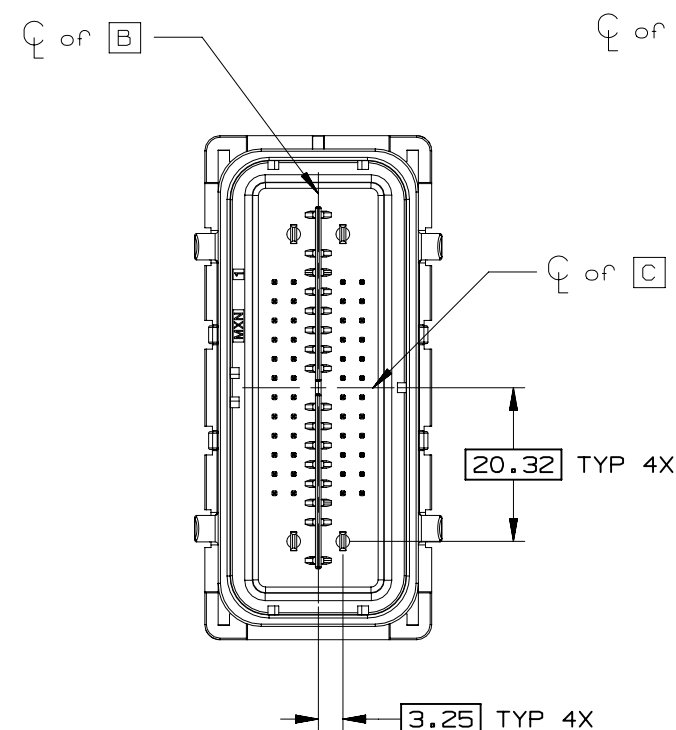


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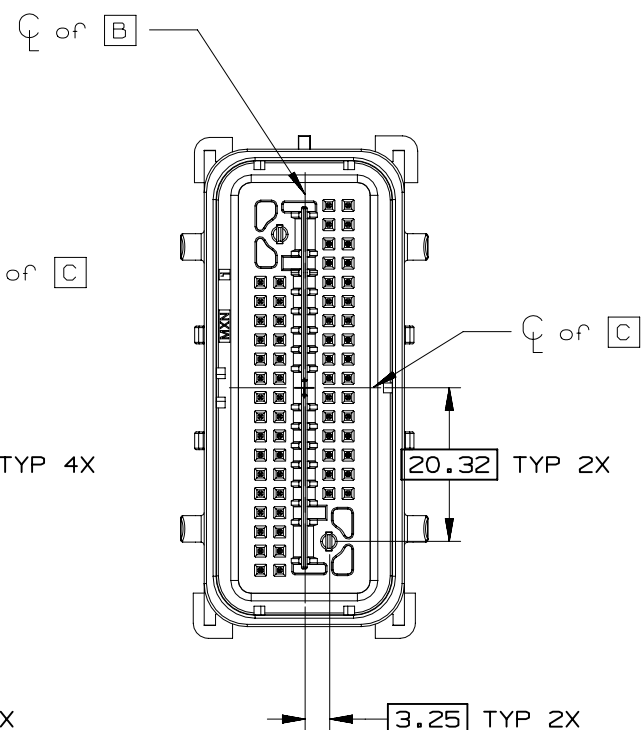


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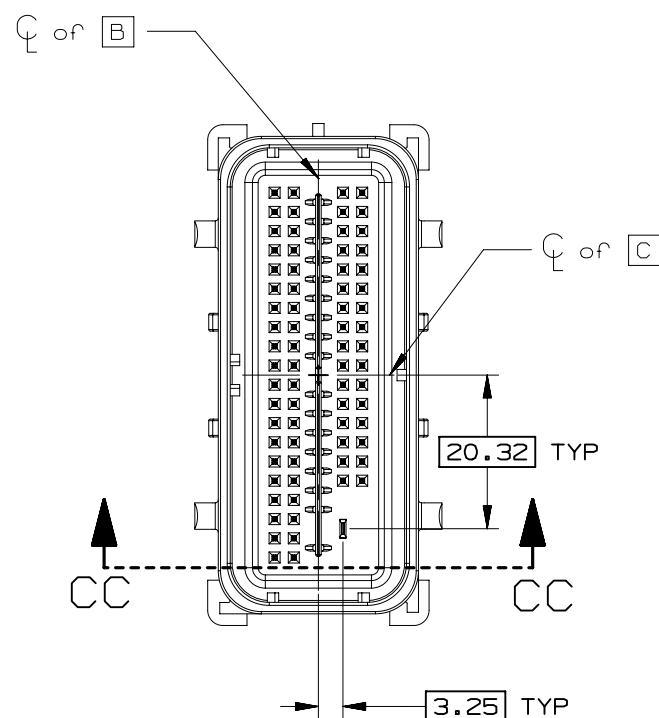




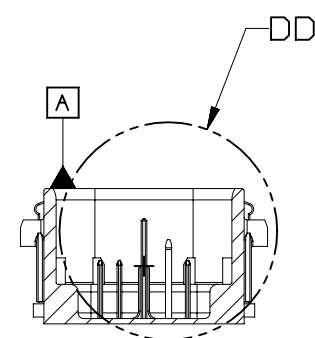
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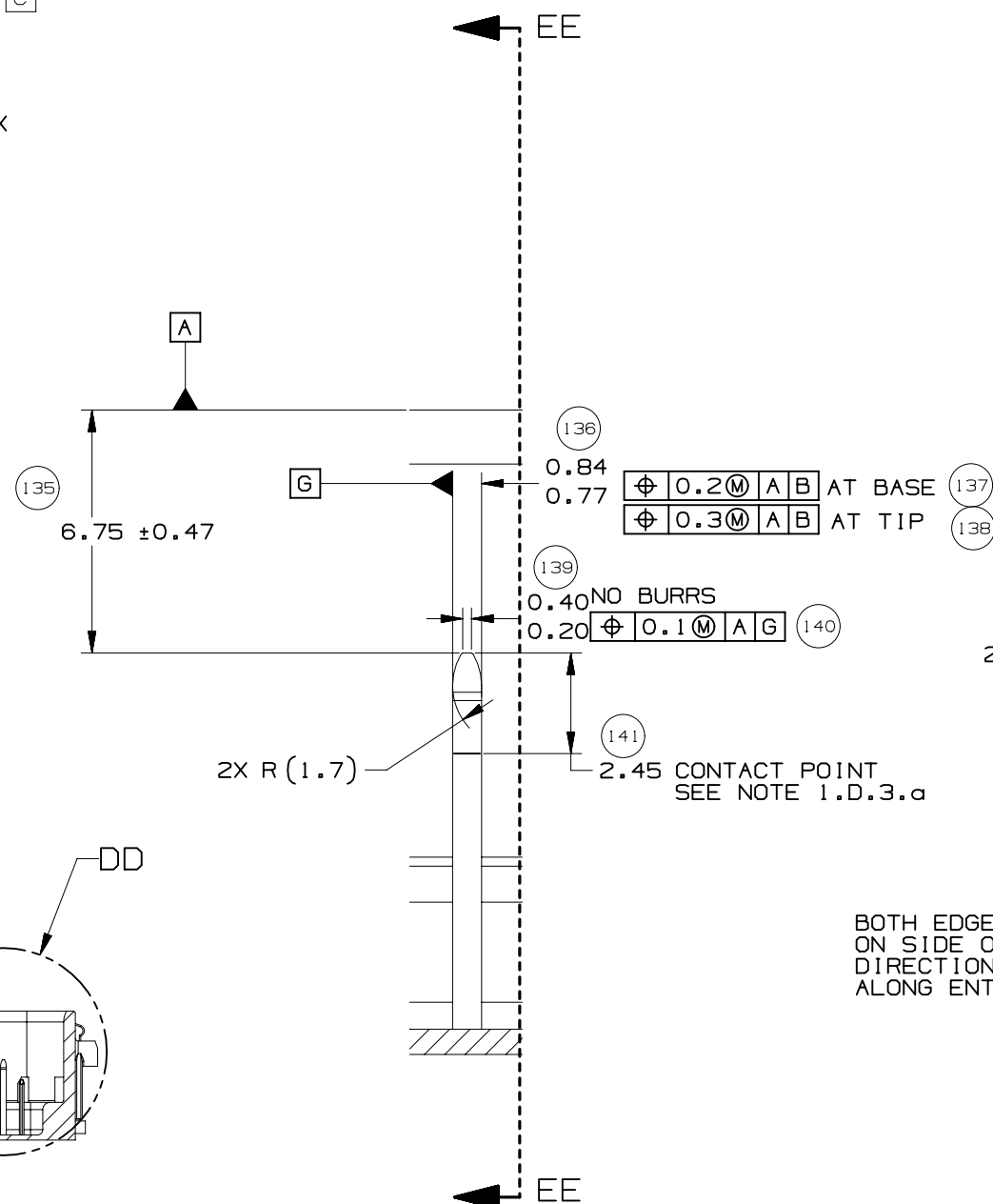
66 CKT COMPONENT
CONNECTOR INTERFACE



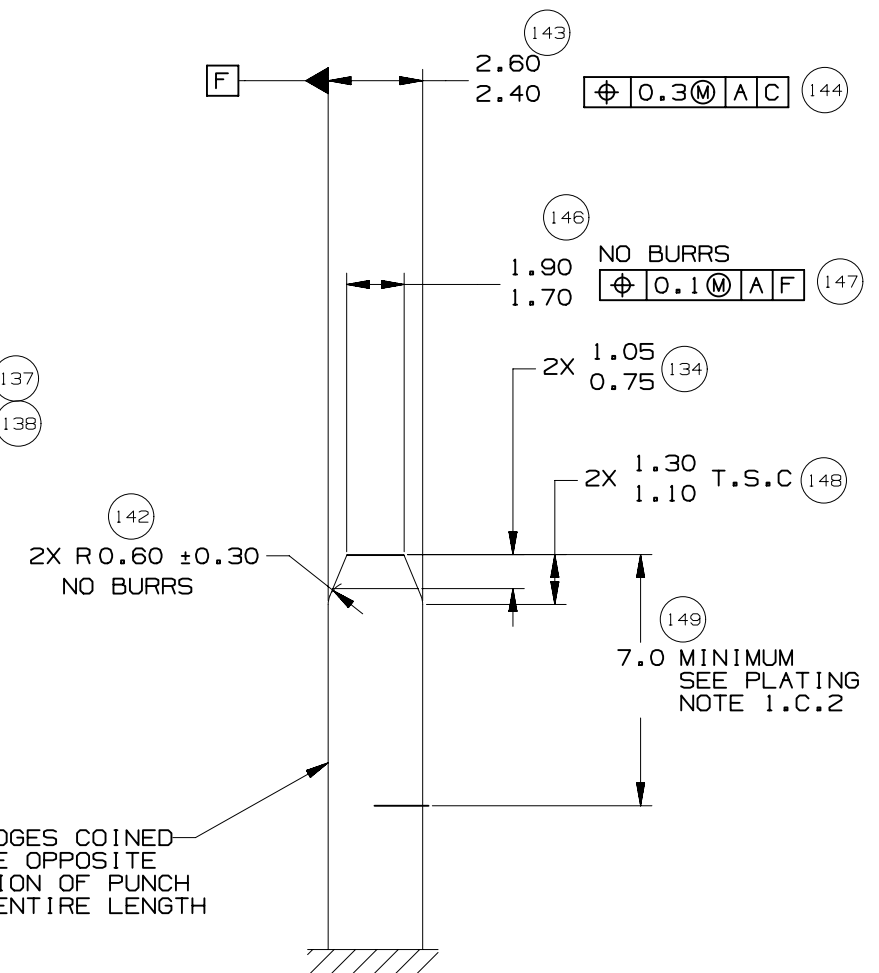
73 CKT COMPONENT
CONNECTOR INTERFACE



SECTION CC-CC



DETAIL DD
TYPICAL
SCALE 5:1



SECTION EE-EE
TYPICAL



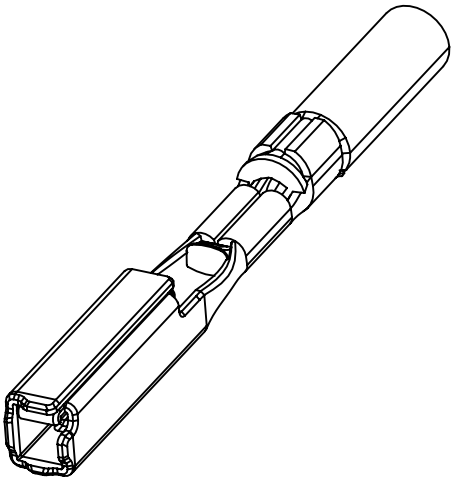
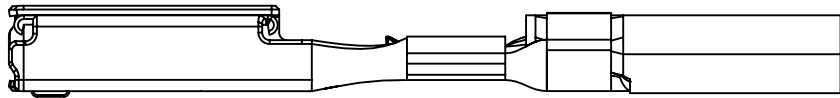
PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12672833

DWG STATUS		
ST	REV	PD1
R	001	

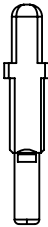
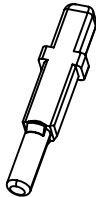
PAGE NUMBER
21 OF 22

MOLEX MX64 RECEPTACLE TERMINAL INFORMATION							
ITEM	MOLEX P/N	GM P/N	WIRE SIZE MM2	TYPE	PLATING	REEL WIND DIRECTION	COMMENTS
1	34736-0025		0.35	ISO	SILVER	LEFT	
2	34736-0026	12672850	0.35	ISO	SILVER	RIGHT	
3	34736-0027		0.5 / 0.75	ISO	SILVER	LEFT	
4	34736-0028	12672851	0.5 / 0.75	ISO	SILVER	RIGHT	

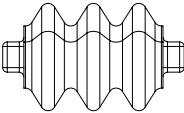
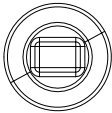


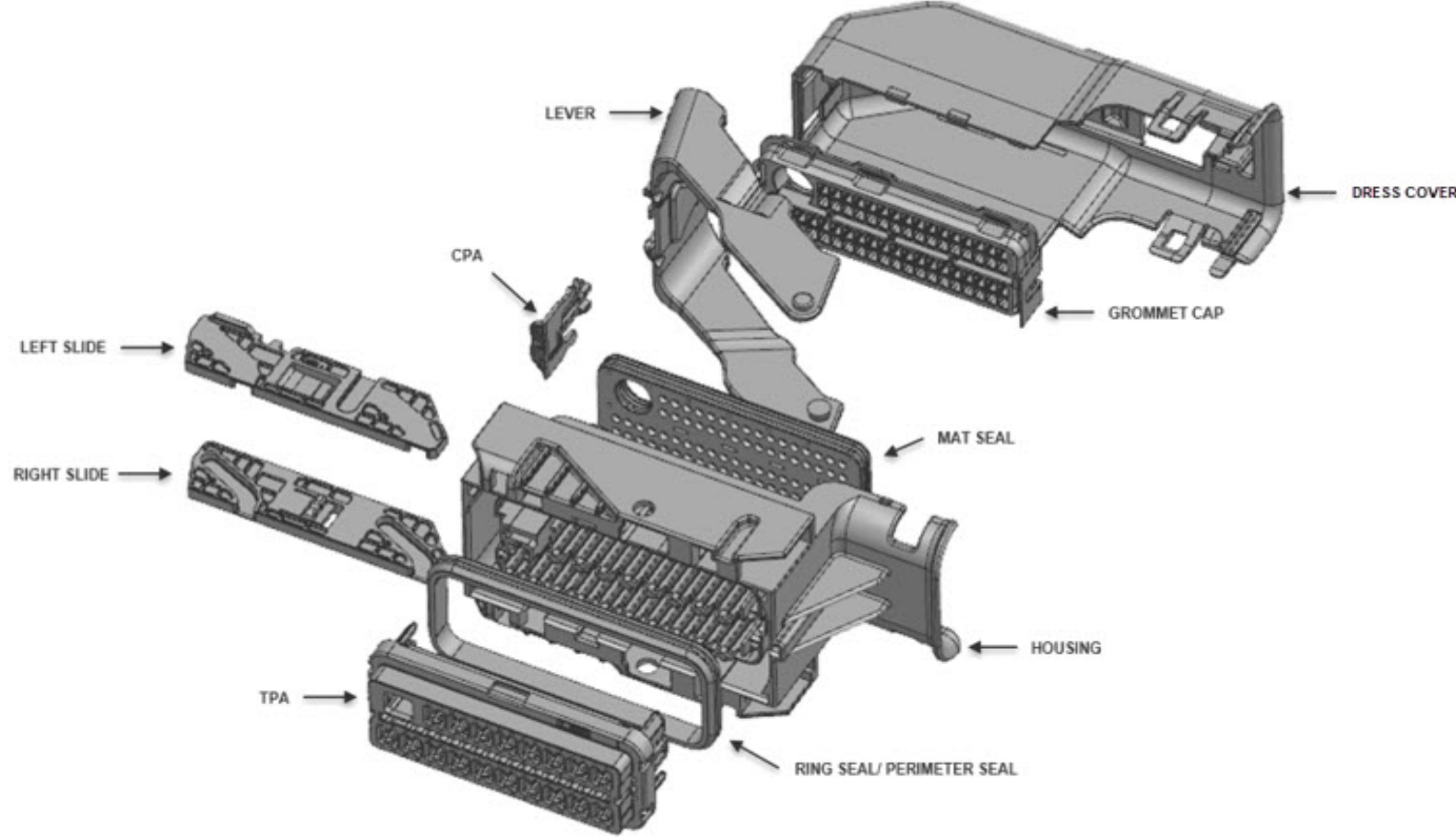
CAVITY PLUGS									
ITEM	MFG	MFG P/N	GM P/N RD	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	12674820	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	12674821	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

ITEM 1

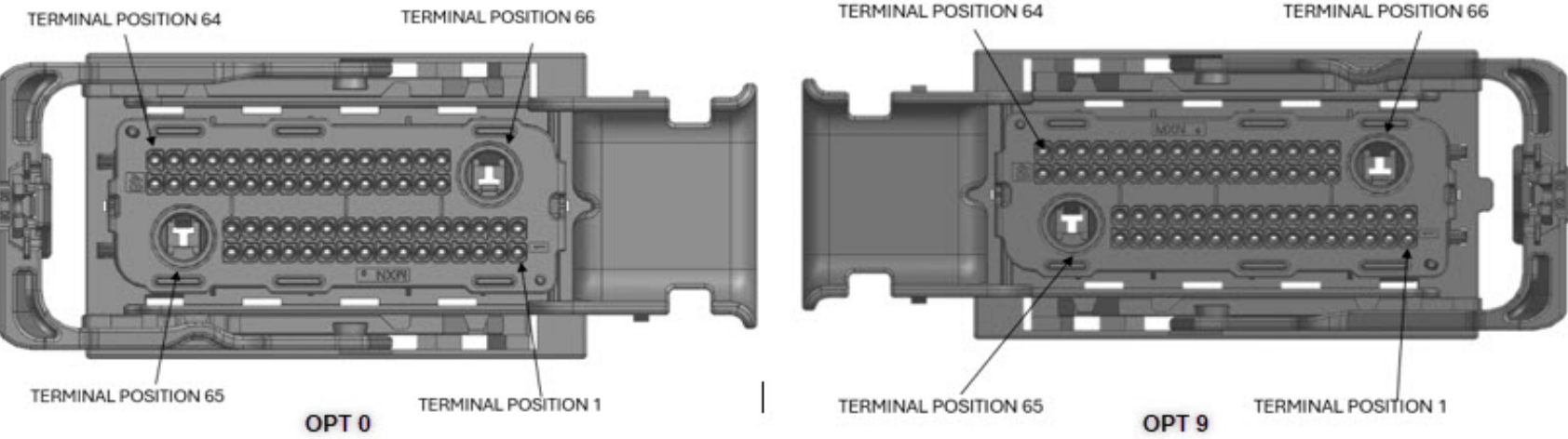


ITEM 2





ABBREVIATION	DESCRIPTION	COLOR	MATERIAL
G-CAP-0-P	GROMMET CAP OPTION 0 PLUGGED	BLACK	SPS/PA, G.F 30%
G-CAP-0-O	GROMMET CAP OPTION 0 AII OPEN	BLACK	SPS/PA, G.F 30%
G-CAP-9-P	GROMMET CAP OPTION 9 PLUGGED	BLACK	SPS/PA, G.F 30%
G-CAP-9-O	GROMMET CAP OPTION 9 AII OPEN	BLACK	SPS/PA, G.F 30%
C-HSG-A0	CONNECTOR HOUSING KEY A - WDC OPT 0	BLACK	SPS/PA, G.F 30%
C-HSG-C0	CONNECTOR HOUSING KEY C- WDC OPT 0	BLACK	SPS/PA, G.F 30%
C-HSG-A9	CONNECTOR HOUSING KEY A- WDC OPT 9	BLACK	SPS/PA, G.F 30%
C-HSG-C9	CONNECTOR HOUSING KEY C - WDC OPT 9	BLACK	SPS/PA, G.F 30%
TPA-A0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	BLACK	SPS/PA, G.F 30%
TPA-C0	TERMINAL POSITION ASSURANCE (TPA) OPTION 0	BLUE	SPS/PA, G.F 30%
TPA-A9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	BLACK	SPS/PA, G.F 30%
TPA-C9	TERMINAL POSITION ASSURANCE (TPA) OPTION 9	BLUE	SPS/PA, G.F 30%
MAL	MATE ASSIST LEVER	BLACK	SPS/NYLON GF30
MAL-2	MATE ASSIST LEVER-2	BLACK	SPS/NYLON GF30
RS	SLIDE - RIGHT	BLACK	PBT W/PTFE, G.F. 30%
RS-2	SLIDE - RIGHT-2	BLACK	KINGFA PBT W/PTFE G.F. 30%
LS	SLIDE - LEFT	BLACK	PBT W/PTFE, G.F. 30%
LS-2	SLIDE - LEFT-2	BLACK	KINGFA PBT W/PTFE G.F. 30%
CVR BLACK	DRESS COVER BLACK	BLACK	PBT, G.F. 30%
CPA	CONNECTOR POSITION ASSURANCE (CPA)	RED	PPE/PA 10% GF
CPA-2	CONNECTOR POSITION ASSURANCE (CPA)	RED	PPE/PA 10% GF
MSEAL	MAT SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER
RSEAL	RING SEAL	RUST RED	INHERENTLY LUBRICATED SILICONE RUBBER



FOR ADDITIONAL INFOMRATION SEE SD-34566-001

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD SEPARATELY DRESS COVER			
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																					
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																					
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/66	2167410001	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220013	345650005		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/66	2167410002	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220023	345650005		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/66	2167410003	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220033	345650005		
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

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DOCUMENT NO. 2167410001

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ER NO
 DATE 10/03/2025
 DOCUMENT NO. 2167410001
 REVISION
 Page 2

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL			
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																				COMPONENTS SOLD SEPARATELY			
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																				DRESS COVER			
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/29	2167410025	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220193	345650005				
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-								
											-				32	31	30	29	-	27	26	25	-	-	22	-					-	-	-	
											-				16	-	-	-	12	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410026	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220203	345650005				
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											-				32	-	30	29	-	27	26	25	-	-	-	-					-	-	-	-
											-				16	-	-	-	12	11	10	9	-	-	6	5					-	3	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410027	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220213	345650005				
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											-				32	-	30	29	28	27	26	25	-	-	-	-					-	-	-	-
											-				16	-	-	-	12	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/35	2167410028	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220223	345650005				
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											-				32	-	30	29	-	27	26	25	-	-	-	-					-	-	-	-
											-				16	-	-	-	12	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/36	2167410029	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220243	345650005				
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											-				32	31	30	29	-	27	26	-	-	23	-	-					-	-	-	-
											-				16	-	-	-	-	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410030	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	-	-	58	57	56	55	-	-	52	-	50	-	-	SALEABLE	Replacing PN 348220253	345650005				
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											-				16	-	-	-	12	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/55	2167410031	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	61	-	-	58	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220263	345650005				
											-	-	-	-	44	43	-	41	40	-	38	-	-	-	-	-								
											-				-	31	-	-	-	-	-	-	-	-	-	-					20	-	-	-
											-				-	-	-	-	-	-	-	-	-	-	-	5					4	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/29	2167410032	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-	-	SALEABLE		345650005				
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											-				32	31	30	29	-	27	26	25	24	23	-	21					-	-	-	-
											-				16	-	-	-	-	11	10	9	-	-	6	5					-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/16	2167410033	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	-	-	-	-	57	-	-	54	53	52	-	50	-	-	SALEABLE		345650005				
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											-				-	15	14	13	12	11	10	9	-	7	6	5					4	3	-	1
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MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/2	2167410035	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	-	SALEABLE	Replacing PN 348220303	345650005				
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											-				16	15	14	13	12	11	10	9	8	7	6	5					4	3	2	1
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410036	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	-	-	58	57	56	55	-	-	52	51	50	-	-	SALEABLE		345650005				
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-								
											-				32	-	30	29	-	27	26	25	-	-	-	-					-	-	-	-
											-				-	-	-	-	12	11	10	9	-	-	6	5					-	-	-	-



MX123 SEALED RCPT ASSY (66 CKT)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL			
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																				COMPONENTS SOLD SEPARATELY			
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																				DRESS COVER			
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/38	2167410037	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	-	-	-	-	-	-	-	-	-	54	53	-	51	-	49					SALEABLE		345650005
											-	-	-	-	-	-	-	-	-	-	-	38	37	-	35	-	33							
											-				-	-	-	-	28	-	-	-	24	-	22	-	20	19	18	17				
															16	15	14	13	12	-	-	-	8	7	-	-	4	3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/32	2167410038	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	60	59	-	-	-	-	-	54	53	-	51	-	49					SALEABLE		345650005
											-	47	-	-	-	-	-	-	-	-	-	38	37	-	35	-	33							
											-				-	-	-	-	28	-	-	25	24	-	22	21	20	19	18	17				
															-	15	14	13	12	-	-	-	8	7	-	-	4	3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/12	2167410039	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	-	60	59	-	57	56	55	54	53	52	51	50	49					SALEABLE		345650005	
											48	47	46	45	-	-	42	-	-	39	-	37	36	35	34	33								
											-				32	-	30	29	28	27	26	25	24	23	22	21	20	19	18	17				
															16	15	14	13	12	11	10	9	8	7	6	-	-	3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410040	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	63	62	61	60	59	-	-	-	-	-	54	53	-	51	-	49					SALEABLE		345650005
											-	-	-	-	-	-	-	-	-	-	-	38	37	-	35	-	33							
											-				-	31	-	-	28	-	-	25	24	23	22	21	20	19	18	17				
															-	15	14	13	-	-	-	-	8	7	-	-	4	3	2	1				
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/13	2167410041	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	-	60	59	-	57	56	55	54	53	52	51	50	49					SALEABLE		345650005	
											48	47	46	45	-	-	42	-	-	39	-	37	36	35	34	33								
											-				32	-	30	29	28	27	26	25	24	23	22	21	-	19	18	17				
															16	15	14	13	12	11	10	9	8	7	6	-	-	3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/34	2167410042	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	59	58	57	56	-	54	53	-	-	50	-					SALEABLE		345650005	
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											-				-	31	-	-	28	-	26	25	24	23	-	-	-	-	-	-				
															16	15	14	13	-	-	-	9	8	7	6	-	-	-	-	-				
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/34	2167410043	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	59	58	-	56	55	54	53	-	-	50	-					SALEABLE		345650005	
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											-				-	31	-	-	28	-	26	25	24	23	-	-	-	-	-	-				
															16	15	14	13	-	-	-	9	8	7	6	-	-	-	-	-				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410044	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	59	58	-	56	55	54	53	-	-	50	-					SALEABLE		345650005	
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											-				-	31	-	-	28	-	26	25	24	23	-	-	-	-	-	-				
															16	15	14	13	-	-	-	9	8	7	6	-	-	-	-	-				
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/30	2167410045	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-					SALEABLE	Replacing PN 348220403	345650005
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-								
											-				32	-	30	29	-	27	26	25	24	23	-	21	-	-	-	-				
															16	-	-	-	-	-	10	9	-	-	6	5	-	-	-	-				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/28	2167410046	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-					SALEABLE	Replacing PN 348220413	345650005
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-								
											-				32	31	30	29	-	27	26	25	24	23	-	21	-	-	-	-				
															16	-	-	-	-	11	10	9	-	-	6	5	-	-	-	-				
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/34	2167410047	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	60	-	-	-	-	55	-	-	52	51	-	49					SALEABLE	Replacing PN 348220423	345650005	
											48	47	46	45	-	-	-	-	-	-	38	-	-	-	-	-								
											-				32	-	30	29	-	27	-	-	-	-	22	21	20	19	18	17				
															-	-	-	-	12	11	10	-	-	-	-	5	4	3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/56	2167410048	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	61	-	-	58	-	-	-	-	-	-	-	-					SALEABLE	Replacing PN 348220433	345650005	
											-	-	-	-	44	43	-	41	40	-	38	-	-	-	-	-								
											-				-	31	-	-	-	-	-	-	-	-	-	-	-	-	-					
															-	-	-	-	-	-	-	-	-	-	5	4	-	-	-					

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DATE	10/03/2025	DOCUMENT NO.	2167410001
			REVISION Page 5



MX123 SEALED RCPT ASSY (66 CKT)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL							
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																				COMPONENTS SOLD SEPARATELY							
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																					DRESS COVER						
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/53	2167410061	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220563	345650005							
											-	-	-	-	44	43	-	41	40	-	38	-	-	-	-	-	-	-				-	-	-	-	-	-	-
											-				-	31	-	-	-	-	-	25	-	-	-	21	20	-				-	-	-	-	-	-	
															-	-	-	-	-	-	-	-	-	-	-	5	4	-				-	-	-	-			
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/29	2167410062	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-	-	-	SALEABLE	Replacing PN 348220573	345650005							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				32	31	30	29	-	27	26	25	-	23	-	21	-	-				-	-	-	-	-	-	-
															16	-	-	-	-	-	11	10	9	-	-	6	5	-				-	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/29	2167410063	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	60	-	-	-	-	55	-	-	52	51	-	49	-	-	SALEABLE	Replacing PN 348220583	345650005							
											48	47	46	45	-	43	42	-	40	39	38	-	-	-	-	-	-	-				-	-	-	-	-	-	
											-				32	-	30	29	-	27	-	-	-	-	22	21	20	19				18	17	-	-	-	-	-
															-	-	-	-	-	12	11	10	-	-	7	-	5	4				3	2	1	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410064	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	-	52	-	50	-	-	-	SALEABLE	Replacing PN 348220593	345650005							
											-	-	-	-	44	43	-	41	40	-	38	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				-	31	30	29	28	27	26	25	24	23	22	-	20	-				-	-	-	-	-	-	-
															-	-	14	13	12	11	10	9	8	7	6	5	4	-				-	-	-	-			
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/32	2167410065	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	-	52	-	50	-	-	-	SALEABLE	Replacing PN 348220603	345650005							
											-	-	-	-	44	43	-	41	40	-	38	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				-	31	30	29	28	27	26	25	24	23	22	21	20	-				-	-	-	-	-	-	-
															-	-	14	13	12	11	10	9	8	7	6	5	4	-				-	-	-	-			
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/31	2167410066	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	60	-	58	57	56	55	-	-	52	51	50	49	-	-	SALEABLE	Replacing PN 348220613	345650005							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				32	-	30	29	-	27	26	25	-	23	-	-	-	-				-	-	-	-	-	-	-
															16	-	-	-	-	-	11	10	9	-	-	6	5	-				-	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/55	2167410067	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220623	345650005							
											-	-	-	-	44	43	-	41	40	-	38	-	-	-	-	-	-	-				-	-	-	-	-	-	
											-				-	-	-	-	-	-	-	-	-	-	-	-	21	20				-	-	-	-	-	-	-
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MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410068	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	60	-	58	57	56	55	-	-	52	51	50	-	-	-	SALEABLE	Replacing PN 348220633	345650005							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				-	-	30	29	-	27	26	25	-	23	-	-	-	-				-	-	-	-	-	-	-
															16	-	-	-	-	-	11	10	9	-	-	6	5	-				-	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/52	2167410069	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	-	-	58	-	-	-	54	-	-	-	-	-	-	-	SALEABLE	Replacing PN 348220643	345650005							
											-	-	-	-	44	43	-	41	40	-	-	37	-	-	-	-	-	-				-	-	-	-	-	-	
											-				-	31	-	-	-	-	-	-	-	-	-	21	-	19				-	-	-	-	-	-	
															-	-	-	-	-	-	-	-	-	-	-	-	-	5				4	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410070	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	60	-	58	57	56	55	-	-	52	51	50	-	-	-	SALEABLE	Replacing PN 348220653	345650005							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-	-	-				-	-	-	-	-	-	
											-				32	-	30	29	-	27	26	25	-	23	-	-	-	-				-	-	-	-	-	-	-
															16	-	-	-	-	-	11	10	9	-	-	6	5	-				-	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/15	2167410071	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	-	-	59	-	57	56	55	-	53	52	51	50	49	-	-	SALEABLE	Replacing PN 348220663	345650005							
											48	47	46	45	-	-	42	41	40	39	38	-	36	35	34	33	-	-				-	-	-	-	-	-	
											-				32	-	30	29	28	27	26	25	24	23	22	-	-	-				18	17	-	-	-	-	-
															16	15	14	13	12	11	10	9	8	7	6	-	-	3				2	1	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/35	2167410072	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	63	62	61	60	59	-	-	-	-	54	53	-	-	-	49	-	-	SALEABLE	Replacing PN 348220673	345650005							
											-	-	-	-	-	-	-	-	-	-	38	37	-	35	-	33	-	-				-	-	-	-	-		
											-				-	31	-	-	28	-	-	-	24	23	22	21	20	19				18	17	-	-	-	-	
															-	15	14	13	-	-	-	-	8	7	-	-	4	3				2	1	-	-	-	-	-

Page 7 of 10



MX123 SEALED RCPT ASSY (66 CKT)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL					
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																				COMPONENTS SOLD SEPARATELY					
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																				DRESS COVER					
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/14	2167410085	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	-	59	58	57	56	55	54	53	52	51	-	49	-				SALEABLE	Replacing PN 348220803	345650005			
											48	47	46	45	-	43	42	41	40	39	-	-	-	-	-	-										
											-				-	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17						
															16	15	14	-	12	11	10	9	8	7	-	5	4	3	2	1						
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/51	2167410086	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	-	-	58	-	-	-	54	-	-	-	-	-	-				SALEABLE	Replacing PN 348220813	345650005			
											-	-	-	-	44	43	-	41	40	-	-	37	-	-	-	-										
											-				-	31	-	-	-	-	-	-	-	-	-	-	21	20	19	-				-		
															-	-	-	-	-	-	-	-	-	-	-	-	5	4	-	-				-		
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/33	2167410087	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	52	-	50	-	-				SALEABLE	Replacing PN 348220823	345650005				
											-	-	-	-	44	43	-	41	40	-	38	-	36	-	34								-			
											-				-	31	30	29	28	27	26	25	24	23	22	-	20	-	-				-	-		
															-	-	14	13	12	11	10	9	8	7	6	5	4	-	-				-	-		
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/54	2167410088	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	60	-	-	-	-	-	-	-	-	50	-	-				SALEABLE	Replacing PN 348220833	345650005				
											-	-	-	-	44	-	-	-	-	-	38	37	36	35	34								33			
											-				32	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
															-	-	-	13	-	-	-	-	-	-	6	-	-	-	-				-			
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/12	2167410089	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	-	59	58	57	56	55	54	53	52	51	50	49	-				SALEABLE	Replacing PN 348220843	345650005			
											48	47	46	45	44	43	42	41	40	39	-	-	-	-	-	-										
											-				-	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17						
															16	15	14	-	12	11	10	9	8	7	-	5	4	3	2	1						
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/14	2167410090	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	-	59	58	57	56	55	54	53	52	51	-	49	-				SALEABLE	Replacing PN 348220853	345650005			
											48	47	46	45	-	43	42	41	40	39	-	-	-	-	-	-										
											-				-	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17						
															16	15	14	-	12	11	10	9	8	7	-	5	4	3	2	1						
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/34	2167410091	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	-	60	59	-	57	56	55	54	53	-	51	-	49	-				SALEABLE		345650005			
											48	47	46	45	-	-	42	-	-	39	-	37	-	35	-	33										
											-				32	-	-	-	-	-	-	-	-	-	-	21	-	19	18	17						
															16	15	-	-	-	-	-	-	-	-	5	-	3	2	1							
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	2167410092	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	59	58	57	56	-	54	53	-	-	50	-	-				SALEABLE		345650005			
											-	-	-	-	44	43	42	41	40	39	-	37	36	35	34	33										
											-				-	31	-	-	28	-	26	25	24	23	-	-	-	-	-	-						
															16	15	14	13	-	-	-	9	8	7	6	-	-	-	-	-						
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/34	2167410093	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	61	-	-	58	-	-	-	-	-	52	-	50	-	-				SALEABLE		345650005			
											-	-	-	-	44	43	-	41	40	-	38	-	36	-	34	-										
											-				-	31	30	29	28	27	26	25	24	23	22	-	20	-	-	-				-		
															-	-	14	13	12	11	10	9	8	7	6	-	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/27	2167410094	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	51	50	-	-				SALEABLE	Replacing PN 348220293	345650005			
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	31	30	29	-	27	26	25	24	23	-	21	-	-	-	-				-		
															16	-	-	-	-	11	10	9	-	-	6	5	-	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/11	2167410095	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	60	59	58	57	56	55	54	53	52	51	-	49	-				SALEABLE	Replacing PN 348220333	345650005			
											48	47	46	45	-	43	42	41	40	39	-	-	-	-	-	33										
											-				32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17						
															16	15	14	-	12	11	10	9	8	7	-	5	4	3	2	1						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/41	2167410096	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	-	-	-	-	-	-	-	-	-	54	53	-	-	-	49	-				SALEABLE		345650005		
											-	-	-	-	-	-	-	-	-	-	38	37	-	35	-	33										
											-				-	-	-	-	28	-	-	-	-	-	22	-	20	19	18	17						
															-	15	14	13	12	-	-	-	8	7	-	-	4	3	2	1						



MX123 SEALED RCPT ASSY (66 CKT)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL					
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION																				COMPONENTS SOLD					
											CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																				SEPARATELY DRESS COVER					
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410097	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	-	-	58	57	56	55	-	-	52	51	50	-					SALEABLE	Replacing PN 348220373	345650005			
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	-	30	29	-	27	26	25	-	-	-	-	-	-	-	-				-	-	-
															16	-	-	-	12	11	10	9	-	-	6	5	-	-	-	-				-		
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/17	2167410098	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	-	-	60	59	-	57	56	55	-	53	52	51	50	49					SALEABLE		345650005			
											48	47	46	45	-	-	42	-	-	39	38	-	36	35	34	33										
											-				32	-	30	29	28	27	26	25	24	23	22	-	-	-	18	17						
															16	15	14	13	12	11	10	9	8	7	6	-	-	3	2	1						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/57	2167410099	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-					SALEABLE		345650005			
											-	-	-	-	44	-	-	-	-	-	38	37	36	35	34	-										
											-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
															-	-	-	13	-	-	-	-	-	-	-	6	-	-	-	-				-	-	
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/52	2167410100	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	-	-	-	58	-	-	-	54	-	-	-	-	-					SALEABLE		345650005			
											-	-	-	-	-	43	-	41	40	-	-	-	-	35	-	-										
											-				-	31	-	-	-	-	-	-	-	-	-	21	20	19	-	-						
															-	15	-	-	-	-	-	-	-	-	-	5	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/30	2167410101	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	51	50	-					SALEABLE	Replacing PN 348220943	345650005			
											48	47	46	-	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	31	30	29	-	27	26	25	-	23	-	-	-	-	-	-						
															16	-	-	-	12	-	10	9	-	-	6	-	4	-	-	-						
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/52	2167410102	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	-	-	-	58	-	-	-	54	-	-	-	-	-					SALEABLE	Replacing PN 348220283	345650005			
											-	-	-	-	-	43	-	41	40	-	-	37	-	-	-	-										
											-				-	31	-	-	-	-	-	-	-	-	-	21	20	19	-	-						
															-	15	-	-	-	-	-	-	-	-	-	5	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/30	2167410103	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-					SALEABLE	Replacing PN 348221003	345650005			
											48	47	46	-	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	31	30	29	-	27	26	25	24	23	-	-	-	-	-	-						
															16	-	-	-	12	-	10	9	-	-	6	-	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY a/27	2167410104	C-HSG-a0	G-CAP-0-P	TPA-a0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	51	50	-					SALEABLE					
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	31	30	29	-	27	26	25	24	23	-	21	-	-	-	-						
															16	-	-	-	-	11	10	9	-	-	6	5	-	-	-	-						
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/50	2167410105	C-HSG-C0	G-CAP-0-P	TPA-C0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	-	-	58	-	-	-	54	-	-	-	-	-					SALEABLE	Replacing PN 348220953	345650005			
											-	-	-	-	44	43	-	41	40	-	-	37	-	-	-	-										
											-				-	31	-	-	-	-	-	-	-	-	-	21	20	19	-	-						
															-	15	-	-	-	-	-	-	-	-	-	5	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/33	2167410106	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	-	-	-	-	-	-	57	56	55	54	-	52	51	50	-					SALEABLE	Replacing PN 348220873	345650005			
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-										
											-				32	-	30	29	-	27	26	25	-	-	-	-	-	-	-	-				-	-	
															16	-	-	-	12	11	10	9	-	-	6	5	-	-	-	-						
MX123 CONN ASSY 66 CKT BLU OPT9 KEY C/51	2167410107	C-HSG-C9	G-CAP-9-P	TPA-C9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	-	-	-	57	-	-	54	-	-	-	-	-					SALEABLE	Replacing PN 348220863	345650005			
											-	-	-	-	44	43	-	41	40	-	-	37	-	-	-	-										
											-				-	31	-	-	-	-	-	-	-	-	-	21	20	19	-	-						
															-	-	-	-	-	-	-	-	-	-	-	5	4	-	-	-						
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/11	2167410108	C-HSG-A0	G-CAP-0-P	TPA-A0	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	64	63	62	61	-	59	58	57	56	55	54	53	52	51	-	49					SALEABLE		345650005			
											48	47	46	45	-	43	42	41	40	39	38	-	-	-	-	-										
											-				32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17						
															16	15	14	13	12	11	10	9	8	7	-	5	4	3	2	1						



MX123 SEALED RCPT ASSY (66 CKT)
BOM & PIN OUT SHEET

ASSEMBLY DESCRIPTION	ASSEMBLY PART NUMBER	CONNECTOR HOUSING	GROMMET CAP	TPA	RIGHT SLIDE	LEFT SLIDE	MATE ASSIST LEVER	CPA	MAT SEAL	RING SEAL	BLOCKED TERMINALS																		STATUS	COMMENTS	INTEGRAL COMPONENTS SOLD			
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																				SEPARATELY			
																															DRESS COVER			
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/27	2167410109	C-HSG-A9	G-CAP-9-P	TPA-A9	RS-2	LS-2	MAL-2	CPA-2	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	51	50	-	SALEABLE		345650005					
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-				-				
											-				32	31	30	29	-	27	26	25	24	23	-	21					-	-	-	-
															16	-	-	-	-	11	10	9	-	-	6	5					-	-	-	-