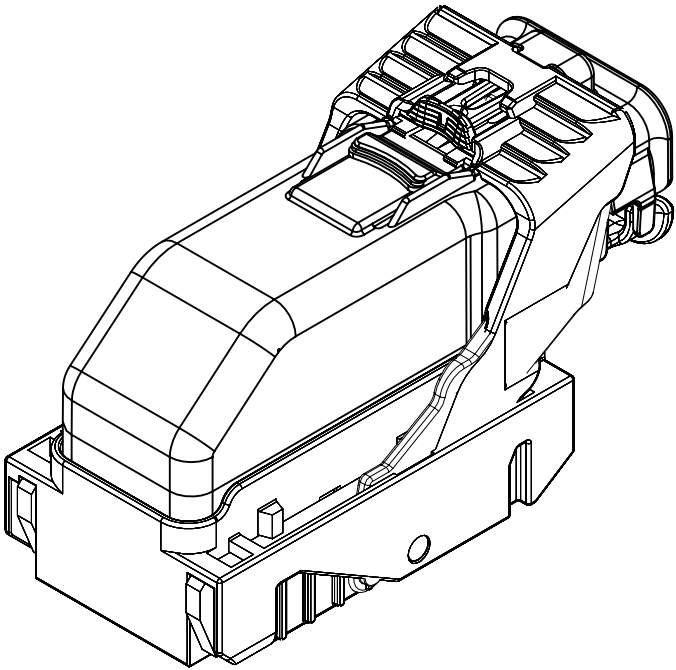


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ISO VIEW

GM		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	
		UC CHANGE RESTRICTED NO MANUAL CHANGES DO NOT SCALE METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED		REFERENCE 12H (MOLEX AUTOMOTIVE)	DRAFTER J SZYMKOWSKI	22DE05
APVD1 D PFAFFINGER				22DE05		
APVD2 B BURT				22DE05		
APVD3						
		APVD4				
		APVD5				
		DRAWING NAME HARNESS CONN ASM 66/73/80 CKTS				
	DRAWING NUMBER 12642695		DWG STATUS			PAGE NUMBER 1 OF 21
			ST	REV	PD1	
			R	002		

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PD1					
	19DE11	R	001			RELEASED TO PRODUCTION AT DLS A	CRM RJ B	SC	MRO	GF
3	08MY15	R	002	A		REORDERED PART BLOCK AND ADDED MASS CORRECTED P/N TYPO FROM 12562676 TO 12582676				
3, 5		R	002	B		ADDED 12659312, 12659313, 12653574 AND 12653575				
6		R	002	C		REMOVED NOTE 1 . D . 3 . C				
20		R	002	D		DIM 125 WAS 3.25 DIM 131 WAS 5.5	CRM RJ D	DFK	MRO	GF

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PD1					

(002B

HIERARCHY /QUANTITY	DWG ITM	DWG RLTN SHIP	PART NUMBER	P-A ITM	D L S	ST	REV	P D I	N M C I	MASS (KG)	PART NAME	NOTES
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PARTS SHOWN ON DRAWING

	PAGE TITLE	DRAWING NUMBER	DWG STATUS			PAGE NUMBER	
	PART BLOCK		12642695	ST	REV	PDI	3 OF 21
			R	002			

KEY PRODUCT CHARACTERISTICS
(IN ACCORDANCE WITH QN 1805 OR ON 1050)

 SAFETY/COMPLIANCE  FIT/FUNCTION			TOTAL ON DRAWING	5
			LAST NO. USED	5
NO	TYPE	DESCRIPTION	RATIONALE	PAGE/ZONE
1	F/F	32.68	IMPROVE CONNECTOR SYSTEM MATING	15
2	F/F	29.00	INSURE PROPER RELEASE OF LEVER	15
3	F/F	15.25	INSURE FINAL MATE POSITION	16
5	F/F	POSITIONAL TOLERANCE (2 PLACES)	INSURE CONNECTOR SYSTEM MATEABILITY	19

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 66/73/80 CKT	N/A	N/A	N/A	BLACK	AVAILABLE
2	MOLEX	34822-0013	12642692	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	0	1458	BLACK	AVAILABLE
3	MOLEX	34822-0033	12659312	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	0	2467	BLUE	AVAILABLE
4	MOLEX	34822-0023	12642693	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	9	1458	BLACK	AVAILABLE
5	MOLEX	34822-0043	12659313	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	9	2467	BLUE	AVAILABLE
6	MOLEX	34566-0103	12582677	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	0	1458	BLACK	AVAILABLE
7	MOLEX	34566-0203	12582678	11JN04	MX123 HRNS CONN ASSY 73 CKT	B	0	1468	ST GRAY	AVAILABLE
8	MOLEX	34566-0303	12615654	09AP08	MX123 HRNS CONN ASSY 73 CKT	C	0	2467	BLUE	AVAILABLE
9	MOLEX	34566-0403	12647268	T.B.D	MX123 HRNS CONN ASSY 73 CKT	D	0	2367	BROWN	NOT ACTIVE
10	MOLEX	34566-0503	AMJ28633	T.B.D	MX123 HRNS CONN ASSY 73 CKT	E	0	2468	GREEN	NOT ACTIVE
11	MOLEX	34566-0603	12653574	05DC14	MX123 HRNS CONN ASSY 73 CKT	F	0	1357	NATURAL	AVAILABLE
12	MOLEX	34566-0703	12588057	09AP08	MX123 HRNS CONN ASSY 80 CKT	G	0	1358	BLUE	AVAILABLE
13	MOLEX	34566-0803	12588058	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	0	2458	ST GRAY	AVAILABLE
14	MOLEX	34566-0903	12615656	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	0	2457	BLACK	NOT ACTIVE
15	MOLEX	34566-1003	AMJ28595	T.B.D	MX123 HRNS CONN ASSY 80 CKT	K	0	2357	BROWN	NOT ACTIVE
16	MOLEX	34566-1103	AMJ29057	T.B.D	MX123 HRNS CONN ASSY 80 CKT	L	0	2368	GREEN	NOT ACTIVE
17	MOLEX	34566-1203	AMJ28669	T.B.D	MX123 HRNS CONN ASSY 80 CKT	M	0	2358	NATURAL	NOT ACTIVE
18	MOLEX	34566-1303	12603596	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	9	1458	BLACK	AVAILABLE
19	MOLEX	34566-1403	12603597	11JN04	MX123 HRNS CONN ASSY 73 CKT	B	9	1468	ST GRAY	AVAILABLE
20	MOLEX	34566-1503	12615655	09AP08	MX123 HRNS CONN ASSY 73 CKT	C	9	2467	BLUE	AVAILABLE
21	MOLEX	34566-1603	12647269	T.B.D	MX123 HRNS CONN ASSY 73 CKT	D	9	2367	BROWN	NOT ACTIVE
22	MOLEX	34566-1703	AMJ28698	T.B.D	MX123 HRNS CONN ASSY 73 CKT	E	9	2468	GREEN	NOT ACTIVE
23	MOLEX	34566-1803	12653575	05DC14	MX123 HRNS CONN ASSY 73 CKT	F	9	1357	NATURAL	AVAILABLE
24	MOLEX	34566-1903	12603598	09AP08	MX123 HRNS CONN ASSY 80 CKT	G	9	1358	BLUE	AVAILABLE
25	MOLEX	34566-2003	12603599	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	9	2458	ST GRAY	AVAILABLE
26	MOLEX	34566-2103	12615657	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	9	2457	BLACK	NOT ACTIVE
27	MOLEX	34566-2203	AMJ29117	T.B.D	MX123 HRNS CONN ASSY 80 CKT	K	9	2357	BROWN	NOT ACTIVE
28	MOLEX	34566-2303	AMJ29136	T.B.D	MX123 HRNS CONN ASSY 80 CKT	L	9	2368	GREEN	NOT ACTIVE
29	MOLEX	34566-2403	AMJ29214	T.B.D	MX123 HRNS CONN ASSY 80 CKT	M	9	2358	NATURAL	NOT ACTIVE
30	MOLEX	34736-2002	12642697	01AU10	MX64 RCPT TERM Ag 18/20 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
31	MOLEX	34736-2001	12642696	01AU10	MX64 RCPT TERM Ag 22 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE
32	MOLEX	34586-0001	T.B.D.	11JN04	MX123 0.64MM GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE
33	YAZAKI	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 20/22 GAGE (CABLE RANGE 0.30mm-0.60mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
34	YAZAKI	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 16/18 GAGE (CABLE RANGE 0.75mm-1.40mm)	N/A	N/A	N/A	N/A	NOT ACTIVE
35	YAZAKI	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 14 GAGE (CABLE RANGE 1.50mm-2.50mm)	N/A	N/A	N/A	N/A	AVAILABLE
36	YAZAKI	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.20mm-1.90mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE
37	YAZAKI	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.80mm-2.30mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE
38	YAZAKI	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.18mm-3.00mm)	N/A	N/A	N/A	WHITE	AVAILABLE
39	YAZAKI	7158-3114-90	T.B.D	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE
40	MOLEX	63811-4200	XX019825	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE
41	MOLEX	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE
42	MOLEX	63865-8000	XX019827	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 18/20 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
43	MOLEX	63865-8070	XX019828	02JN03	MX64 APPLICATOR TOOL KIT 18/20 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
44	MOLEX	63865-8100	XX019829	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 22 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE
45	MOLEX	63865-8170	XX019830	02JN03	MX64 APPLICATOR TOOL KIT 22 GAGE	N/A	N/A	N/A	N/A	AVAILABLE
46	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
47	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
48	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE
49	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE
50	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE

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* - MX123 DRESS COVER 73/80/66 CKT MATES TO ANY MX123 HARN CONN ASSY SHOWN ON TABLE ABOVE

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			R	002		

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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.
- 002C
- | | | | | | | | | |
|-------------------------------------|---------------------|--|----------------------------|------------|-----|-----|-------------|-------|
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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING SAE WIRE SIZE NO'S:
14, MEETING SAE J1128
18, MEETING SAE J1128, MAX O.D. OF 2.06 MM
20, MEETING SAE J1128
22, MEETING SAE J1128, MIN O.D. OF 1.47 MM
- 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:

ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- A. MX64 RCPT TERM
1. MX64 RCPT TERM Ag 18/20 GAGE CRIMPED TO SAE WIRE SIZE NO.18 AND MATED TO MX123 0.64MM PIN: 11.3 AMPS
2. MX64 RCPT TERM Ag 22 GAGE CRIMPED TO SAE WIRE SIZE NO.22 AND MATED TO MX123 0.64MM PIN:8.5 AMPS

WIRE	CURRENT RATING			
	23°C	85°C	105°C	125°C
18AWG	11.3A	11.3A	9.5A	6.6A
20AWG	10.0A	10.0A	8.3A	5.7A
22AWG	8.6A	8.6A	7.1A	5.0A

- B. 2.8MM RCPT TERM
1. 2.8MM RCPT TERM TIN 14 GAGE CRIMPED TO SAE WIRE SIZE NO.14 AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS

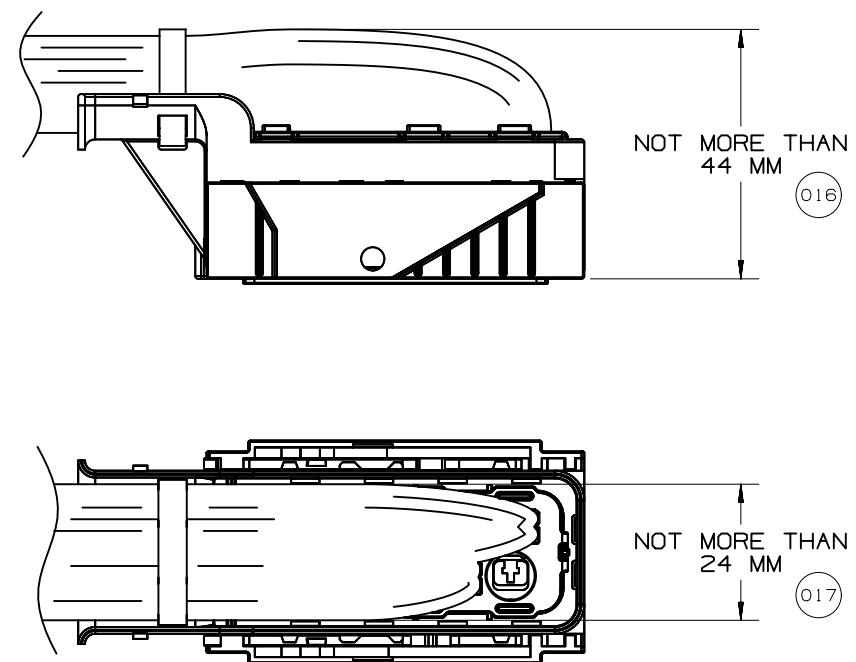
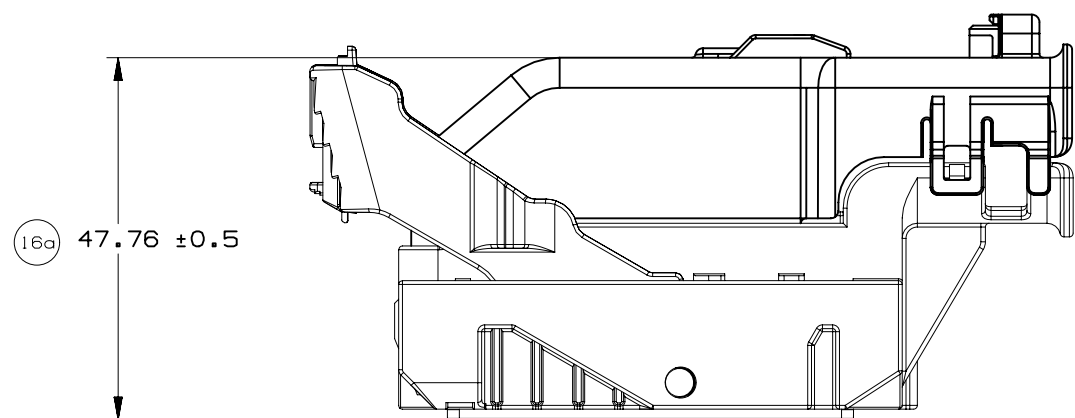
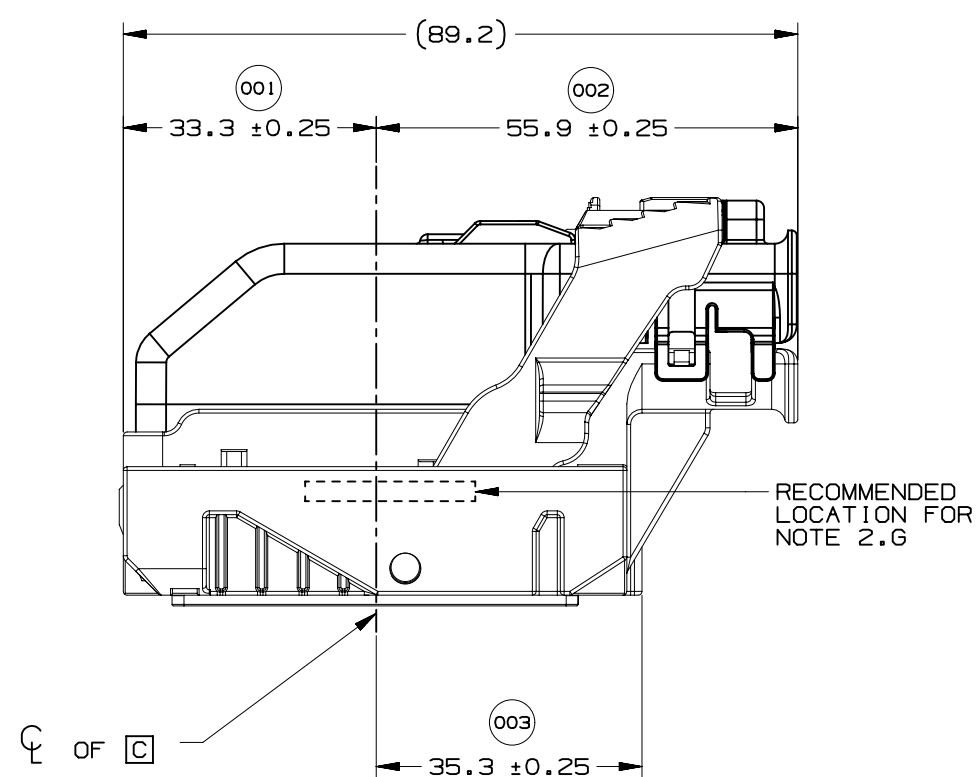
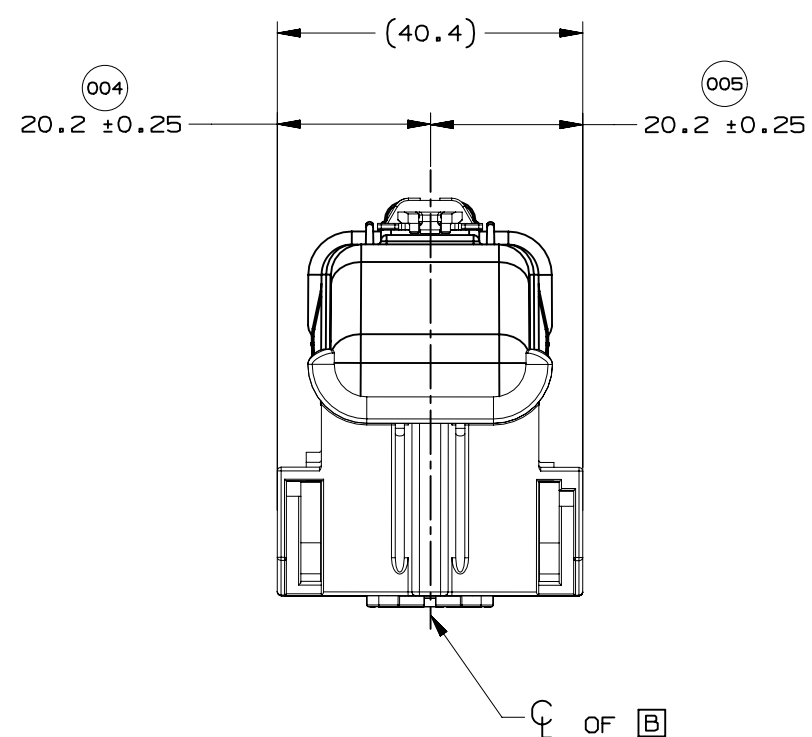


Fig. 1

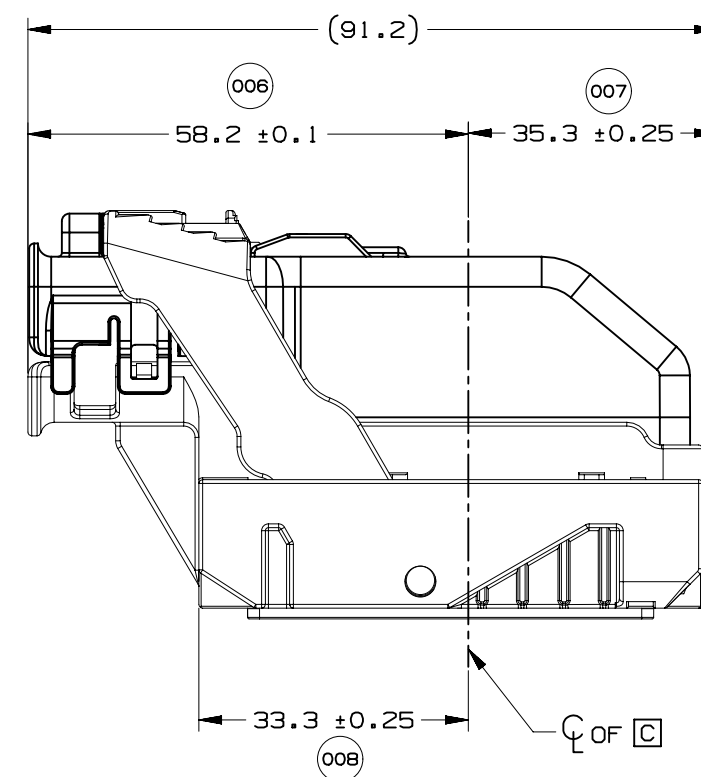




WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



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

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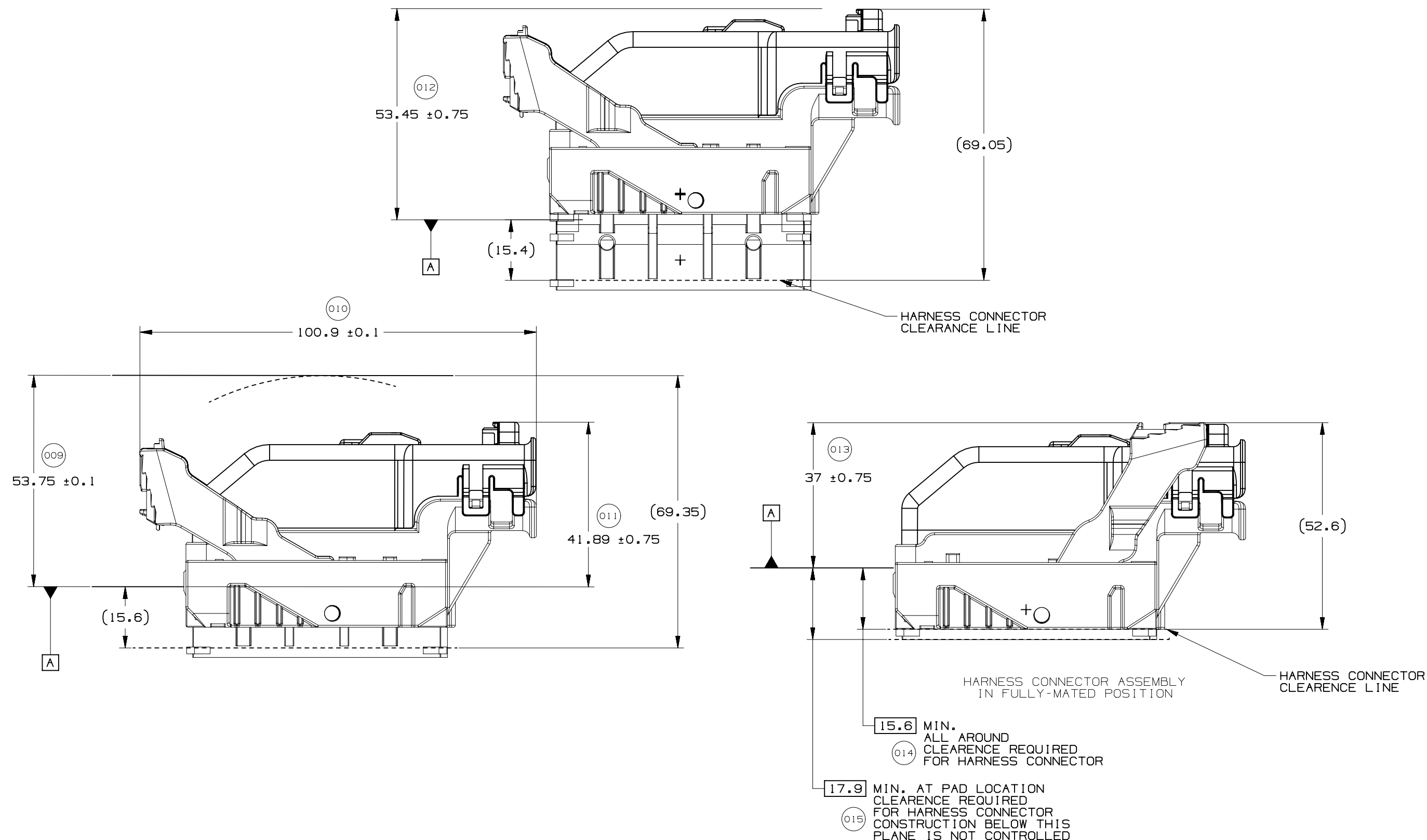
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PAGE TITLE
LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUM A

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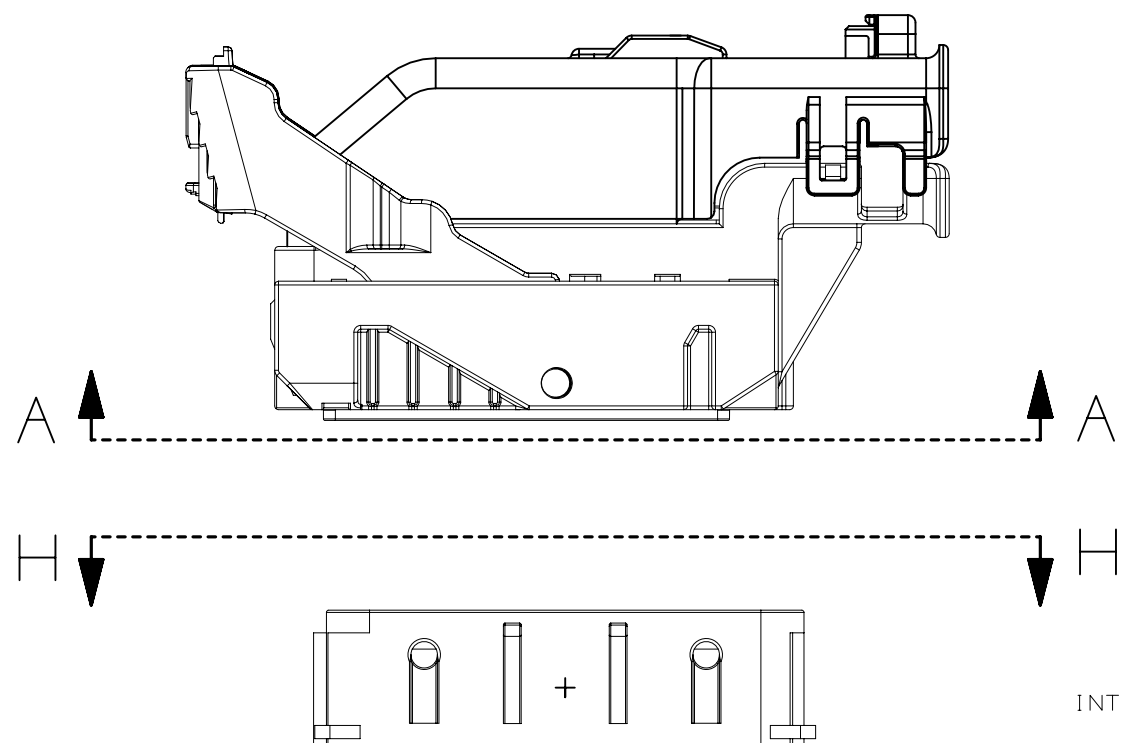
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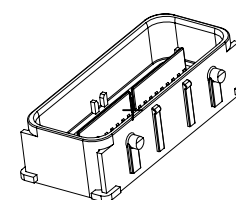
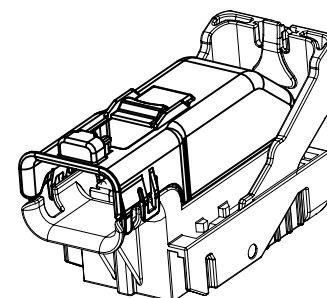
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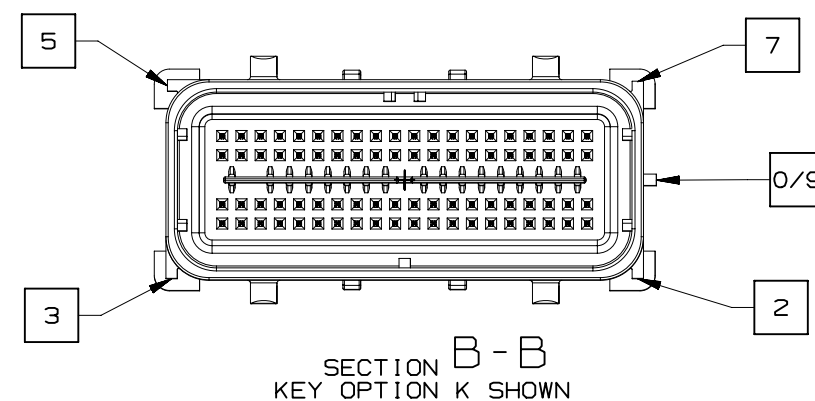
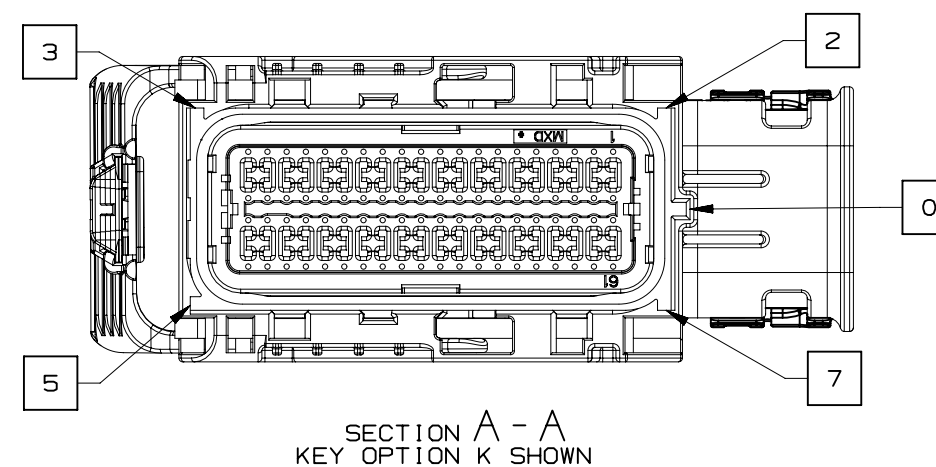
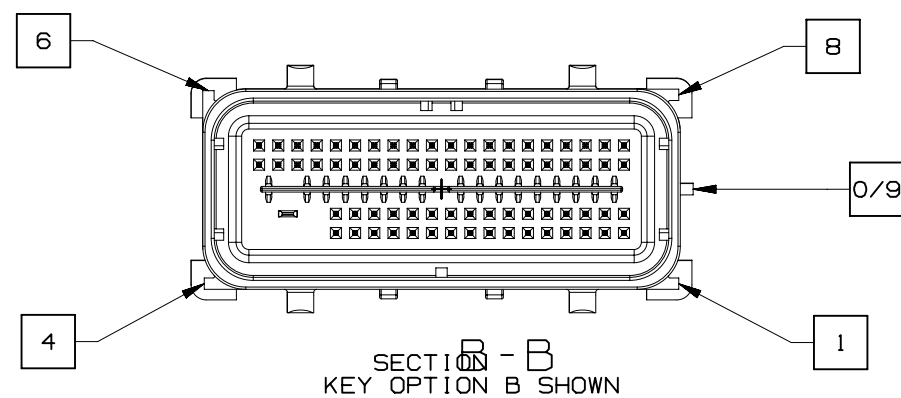
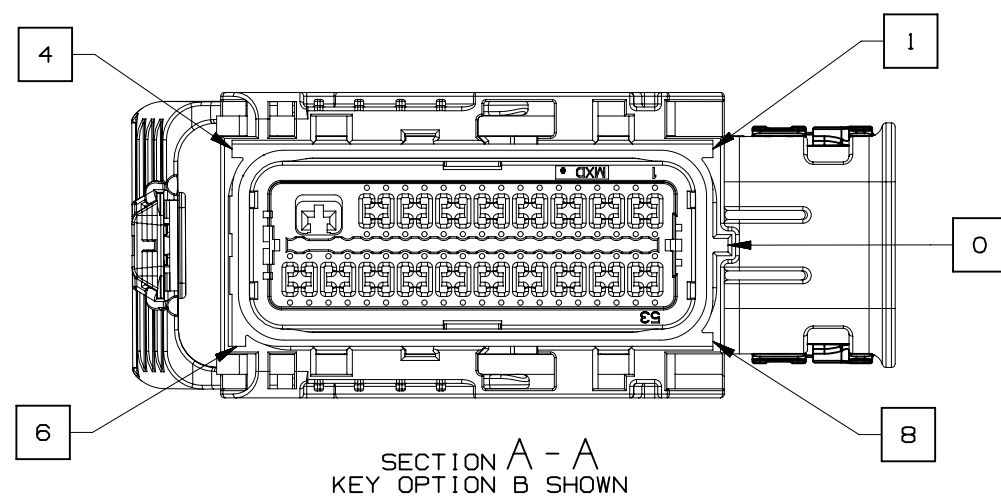
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INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS

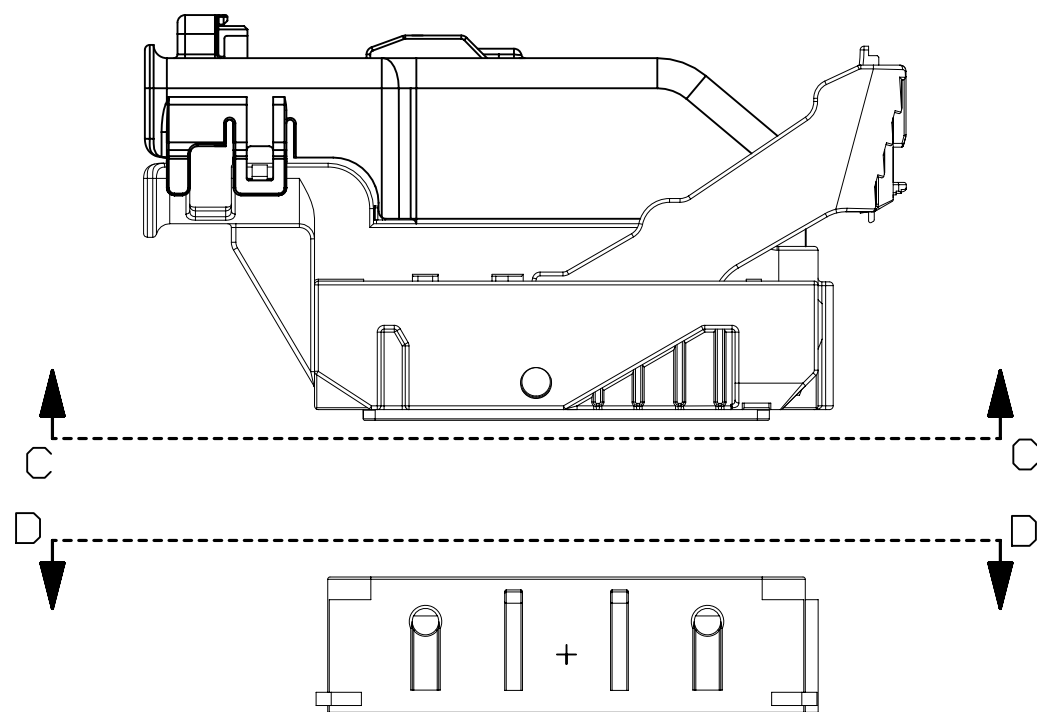


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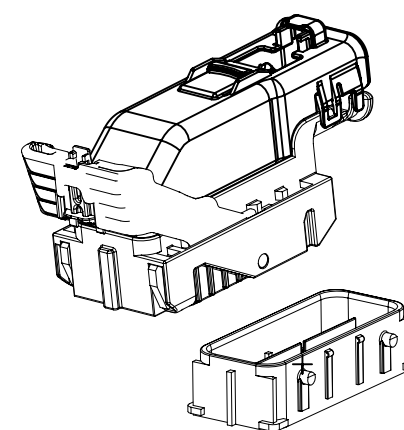
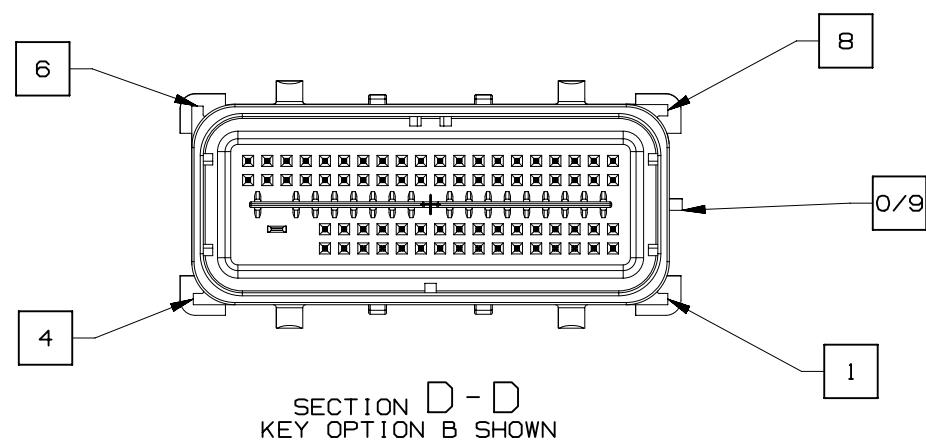
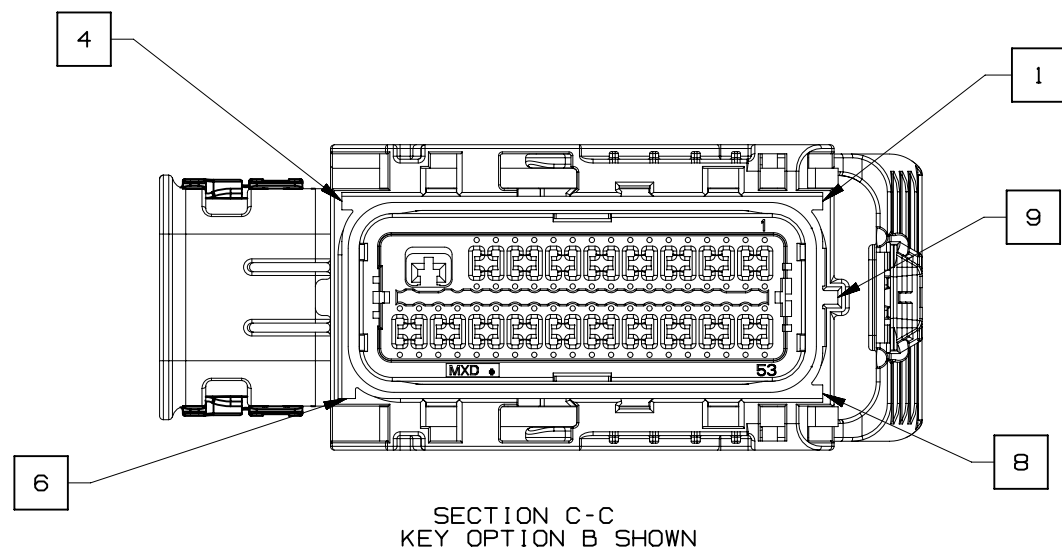
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12642695

DWG STATUS		
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R	002	

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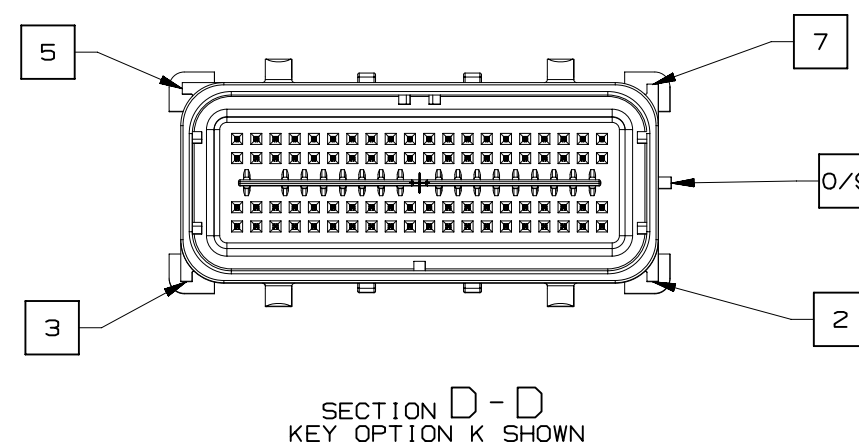
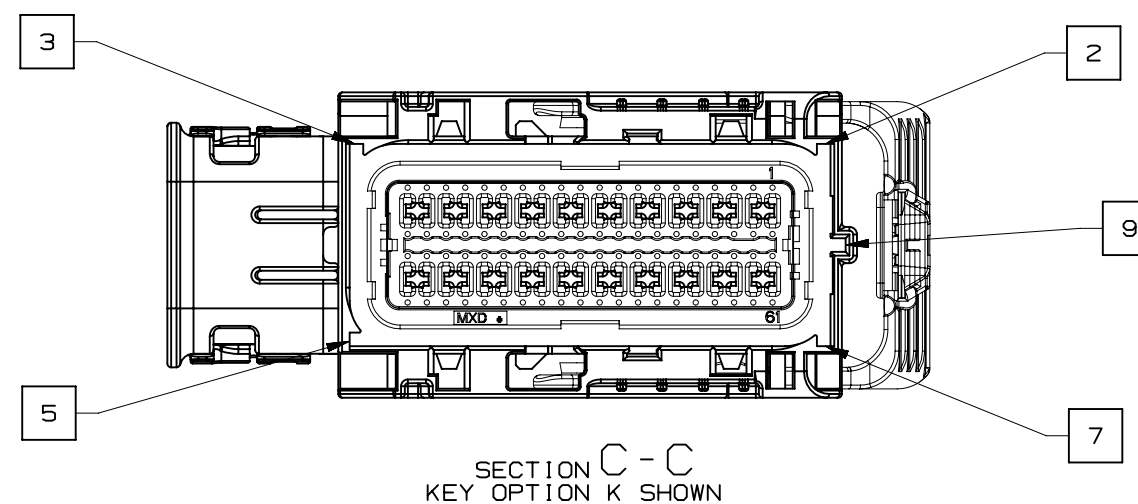


INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS

VIEW V

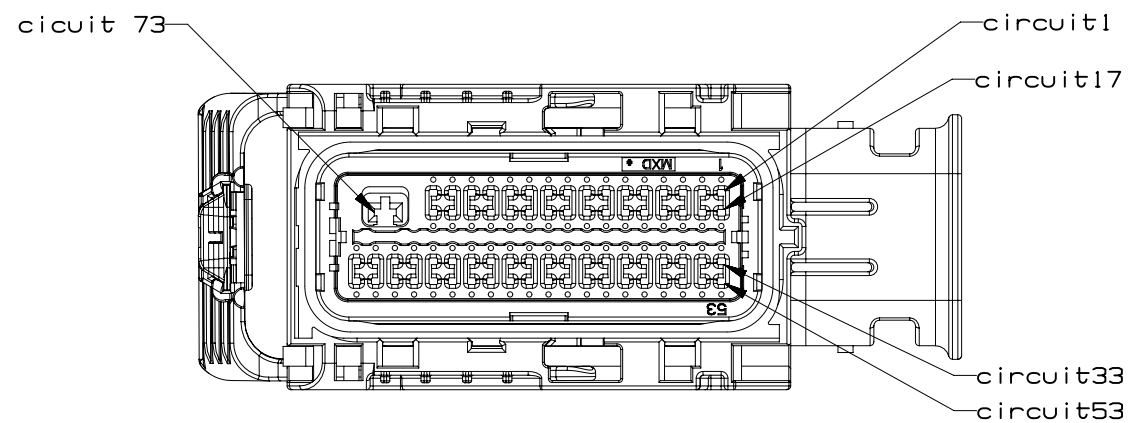


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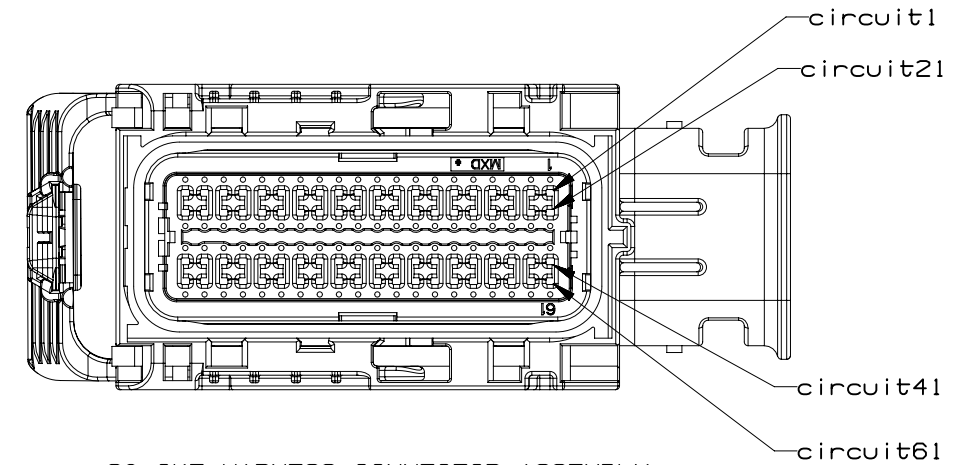
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DWG STATUS		
ST	REV	PD1
R	002	

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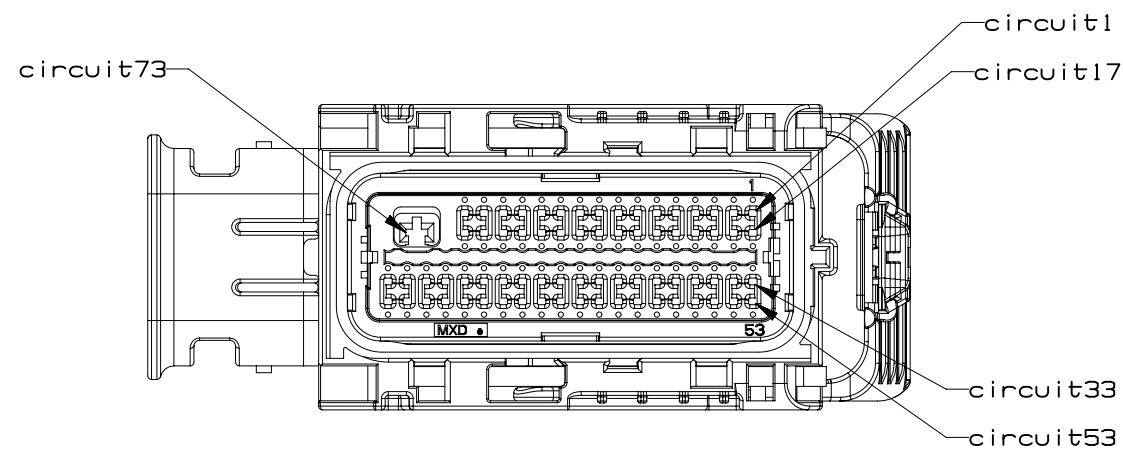


73 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

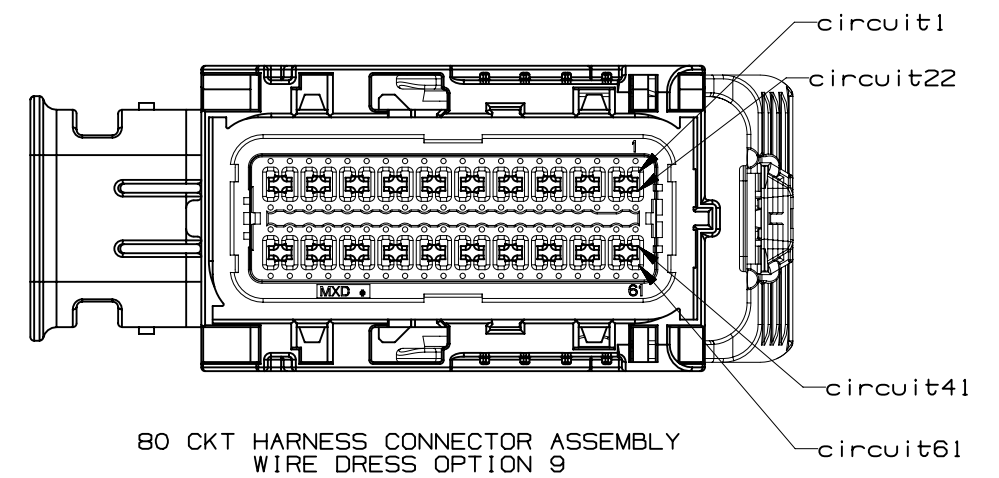


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WIRE DRESS OPTION 0

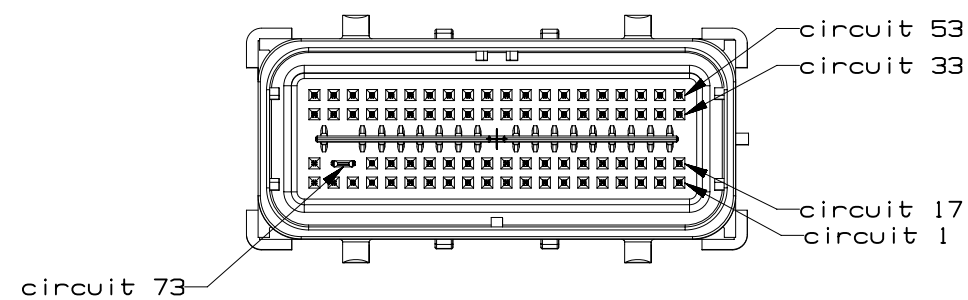
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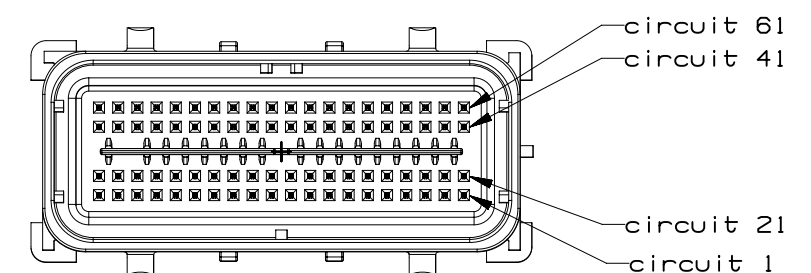
73 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

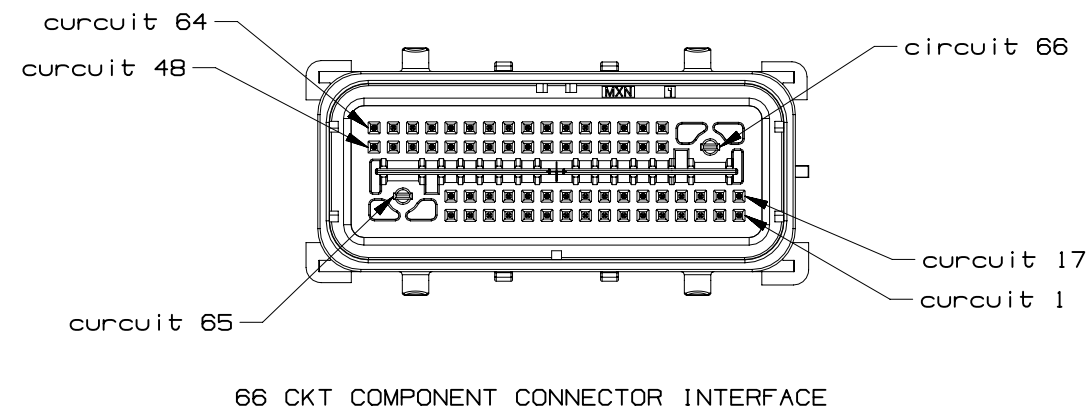
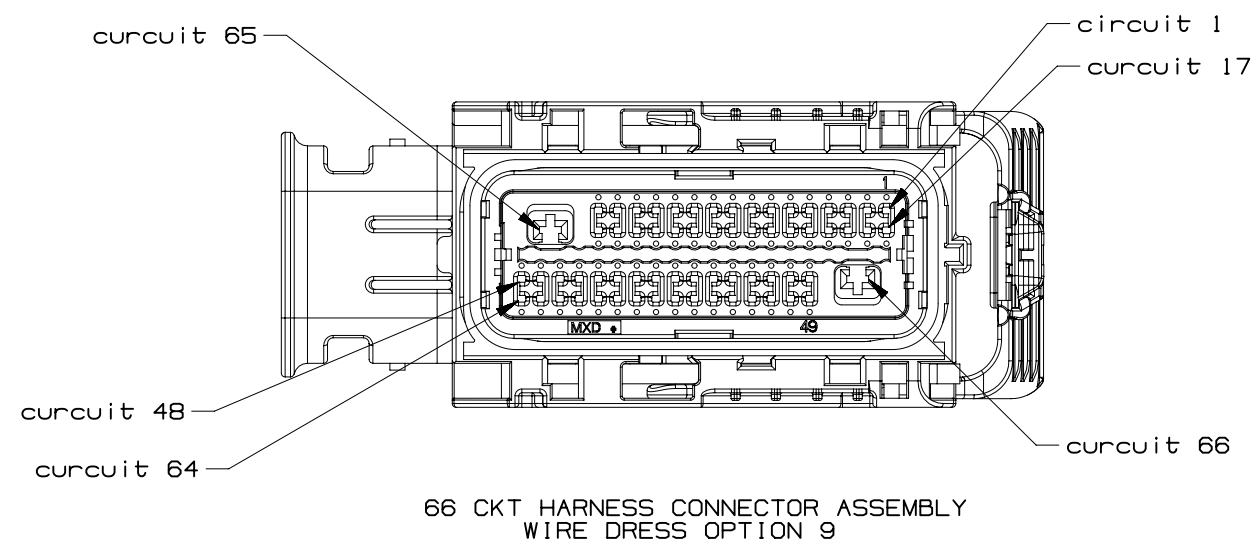
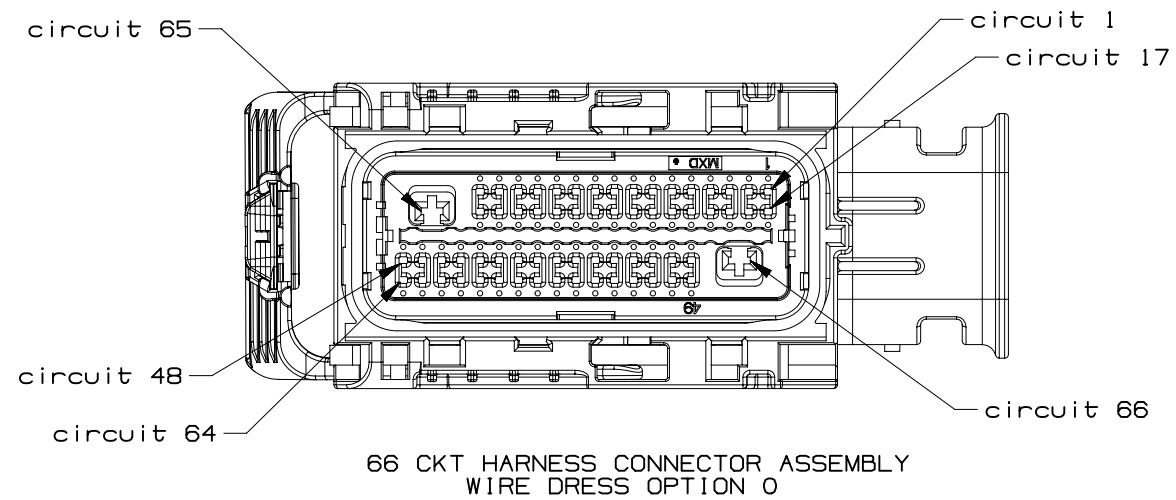


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE

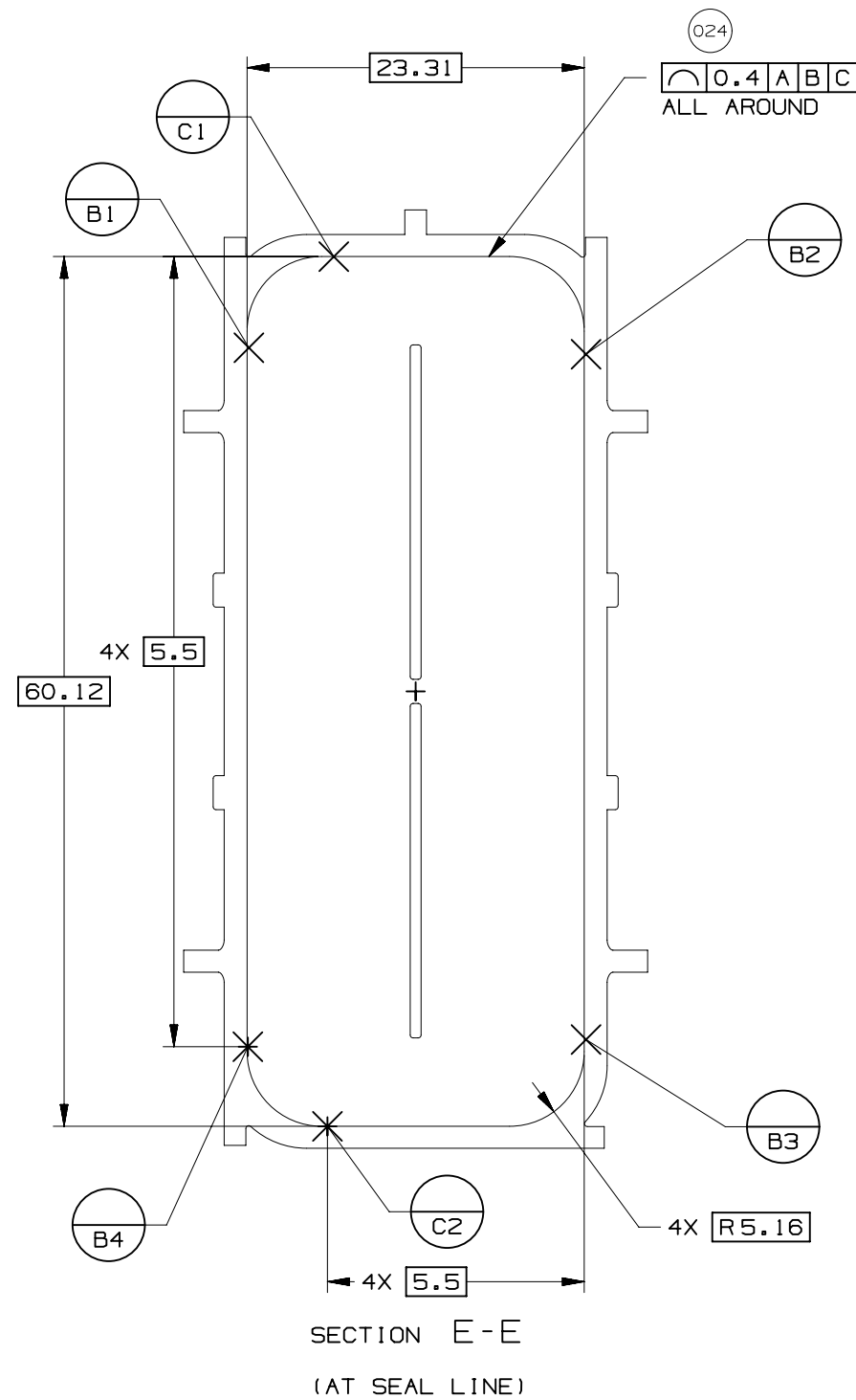
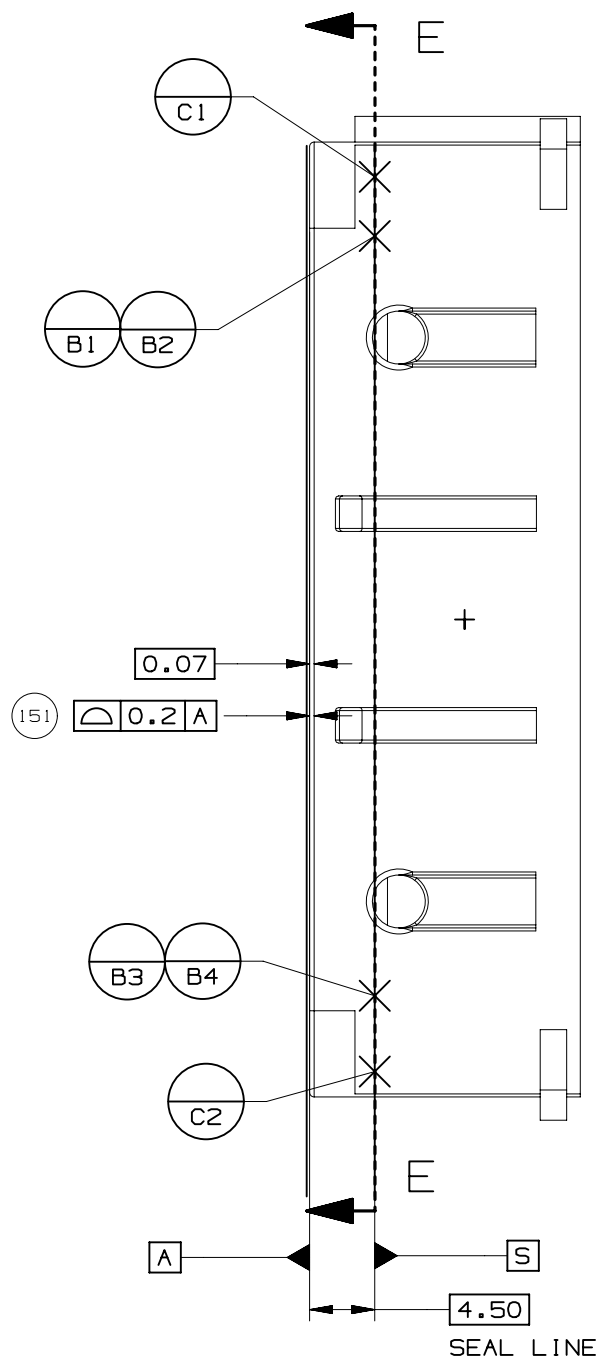
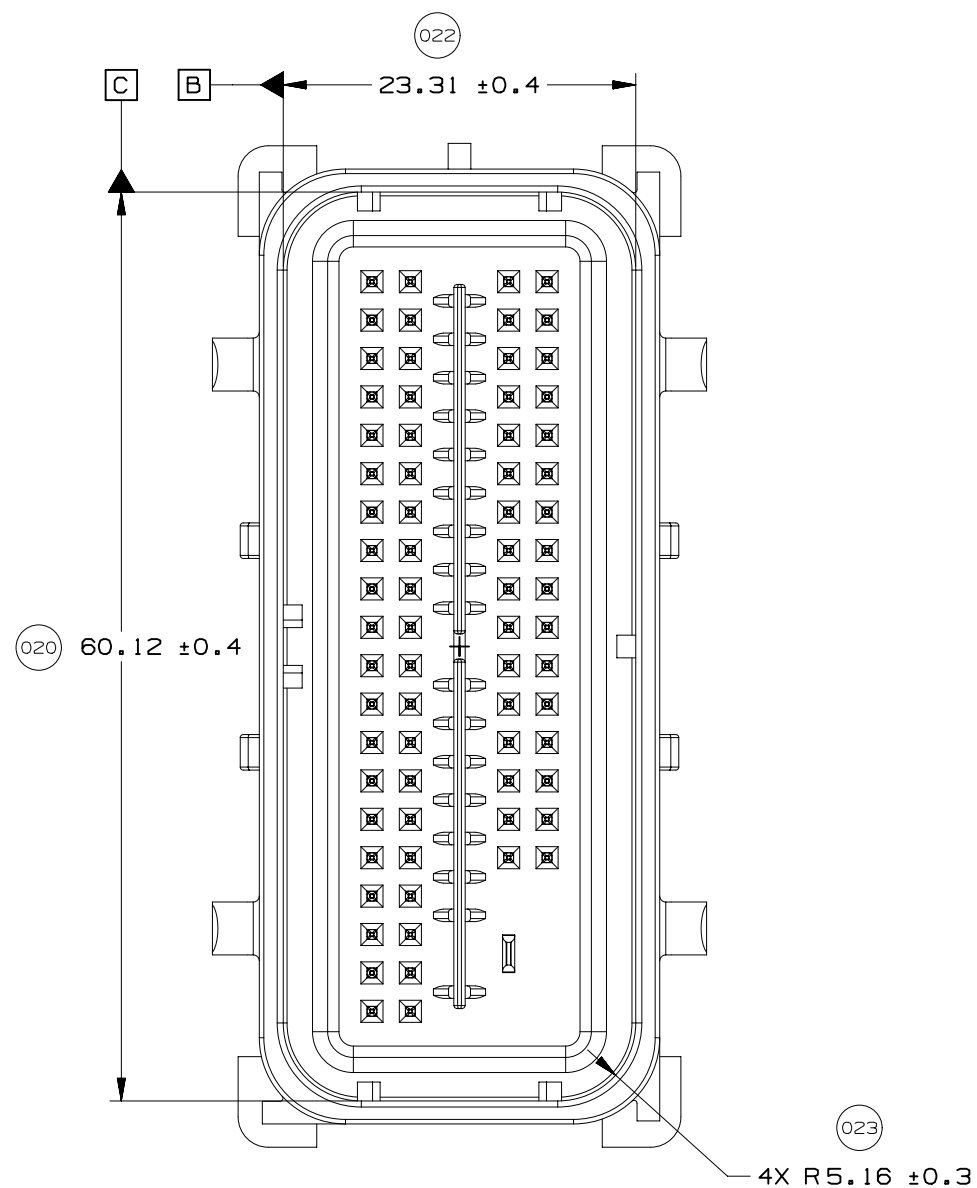
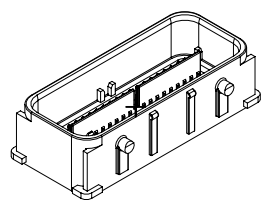




PAGE TITLE
CIRCUIT CONFIGURATIONS

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

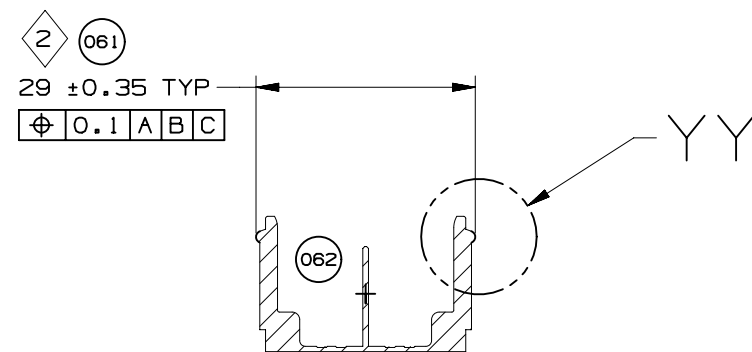
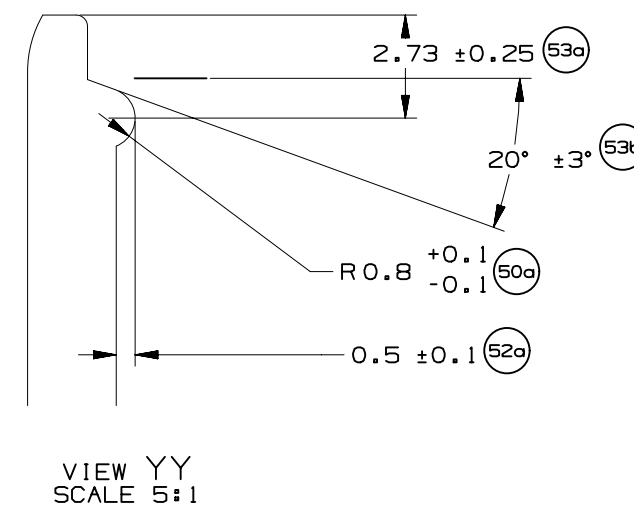
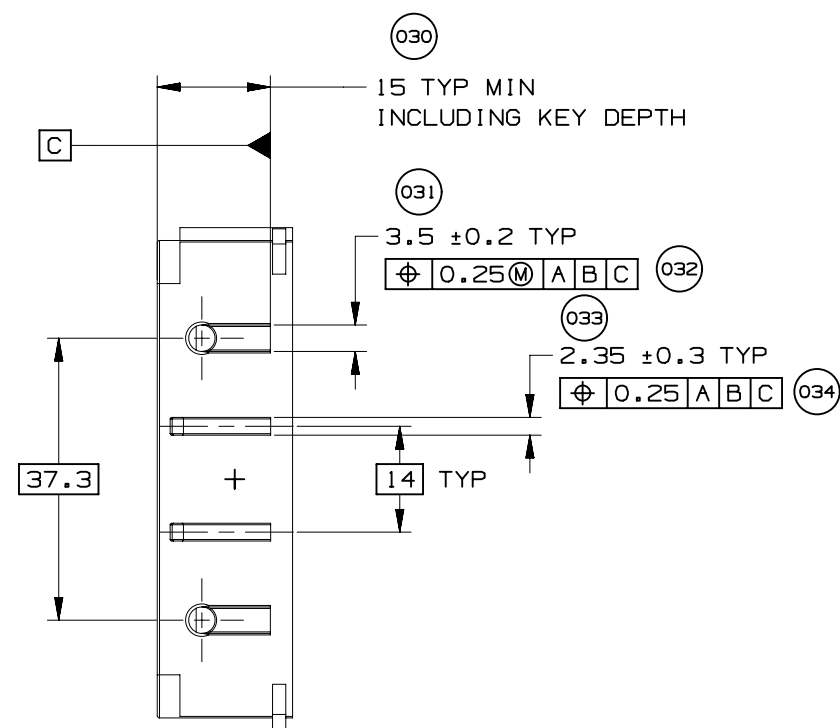
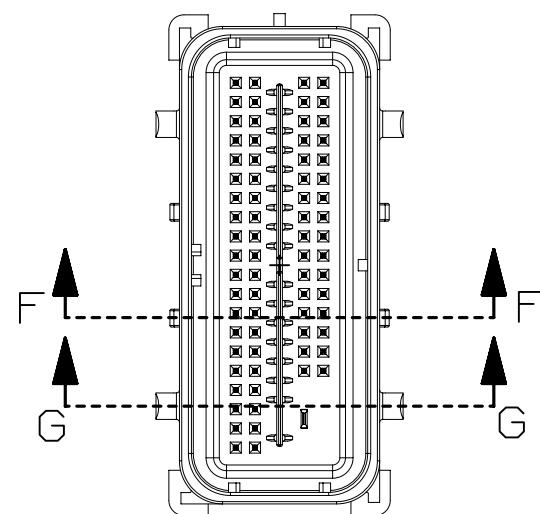


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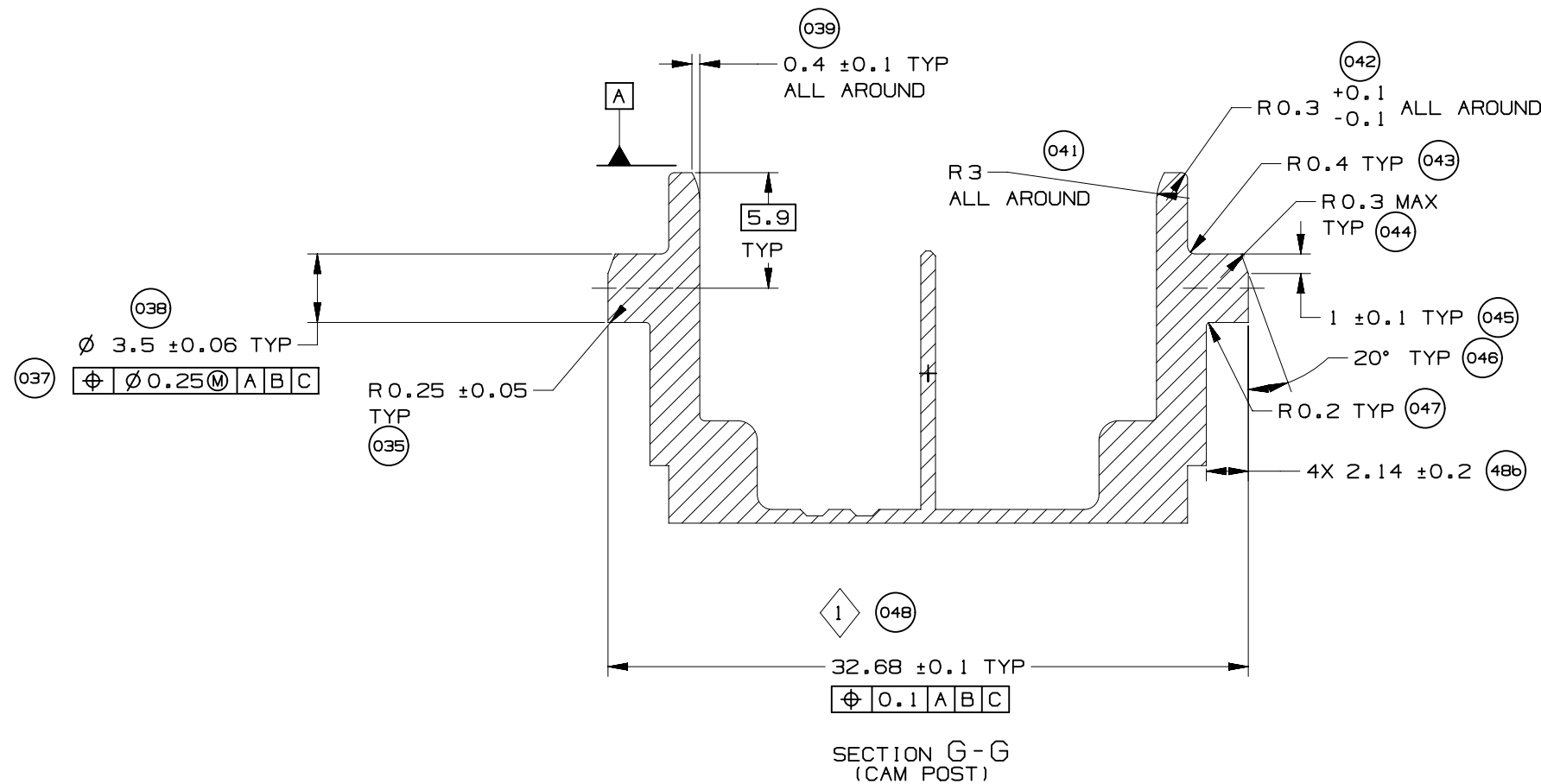
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SECTION F-F



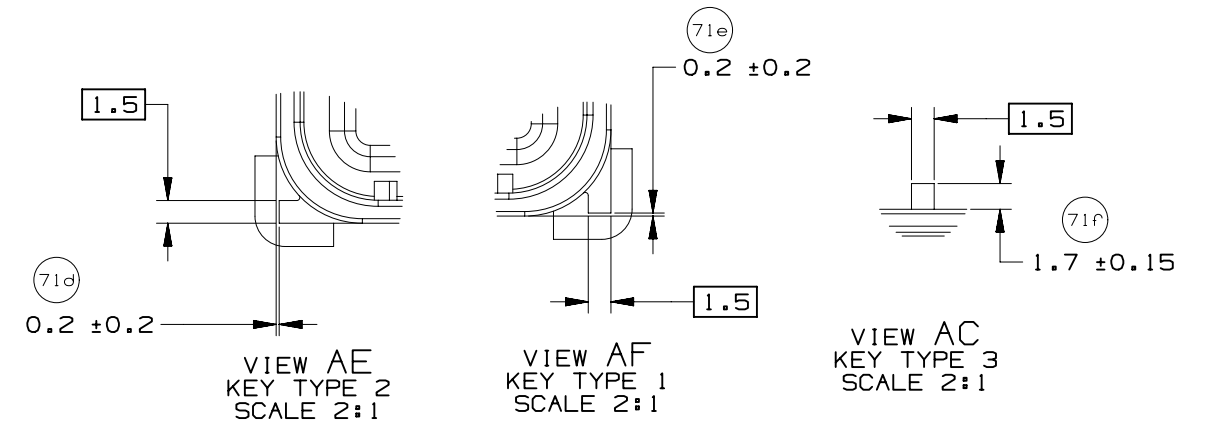
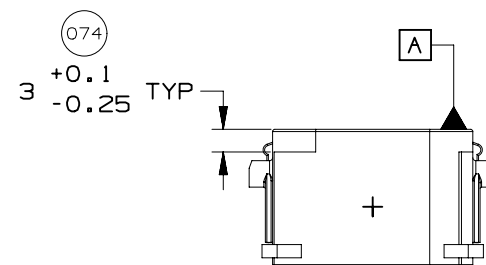
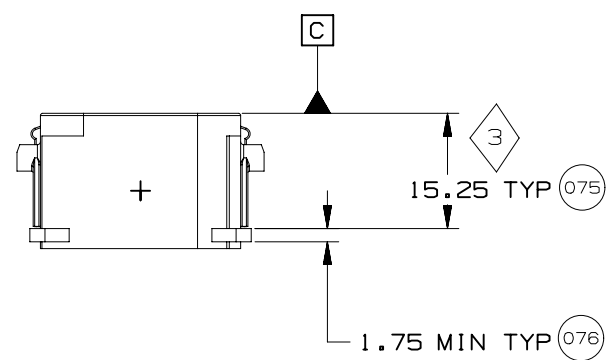
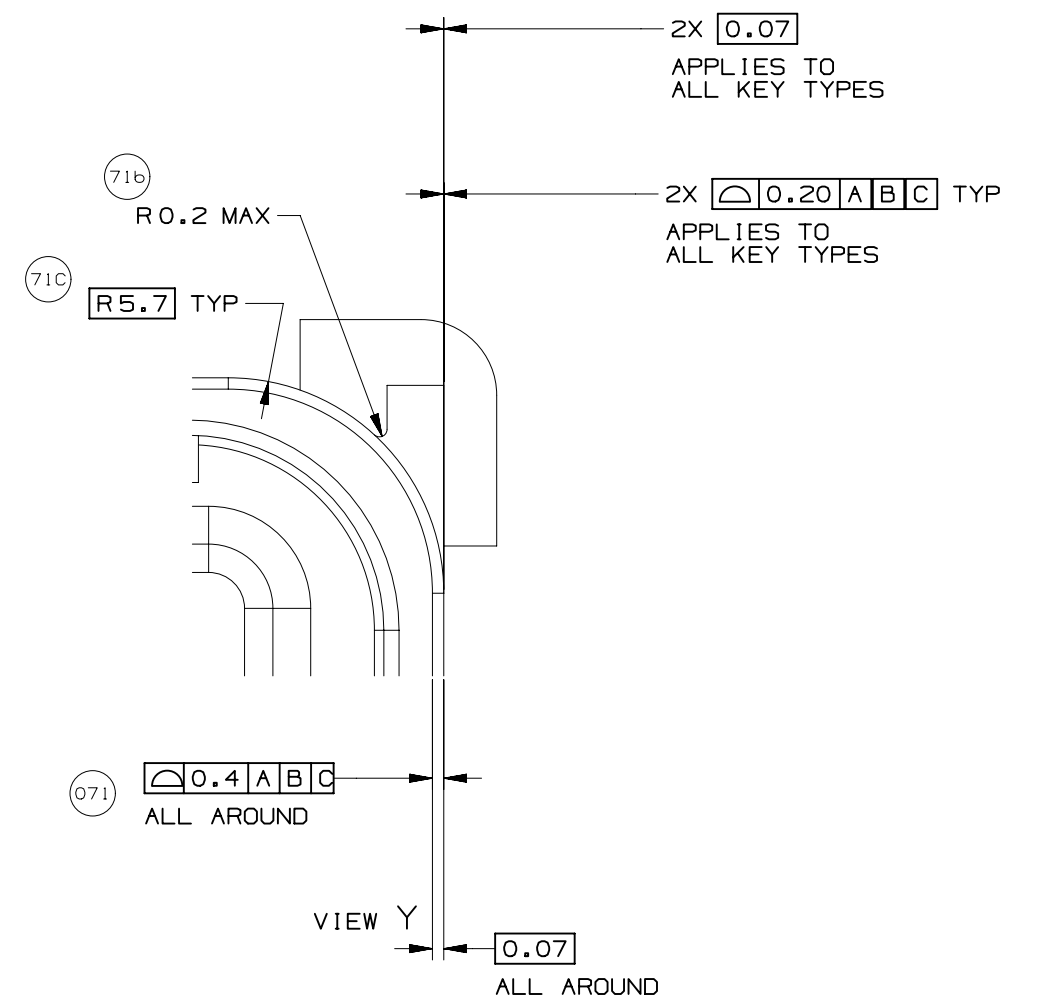
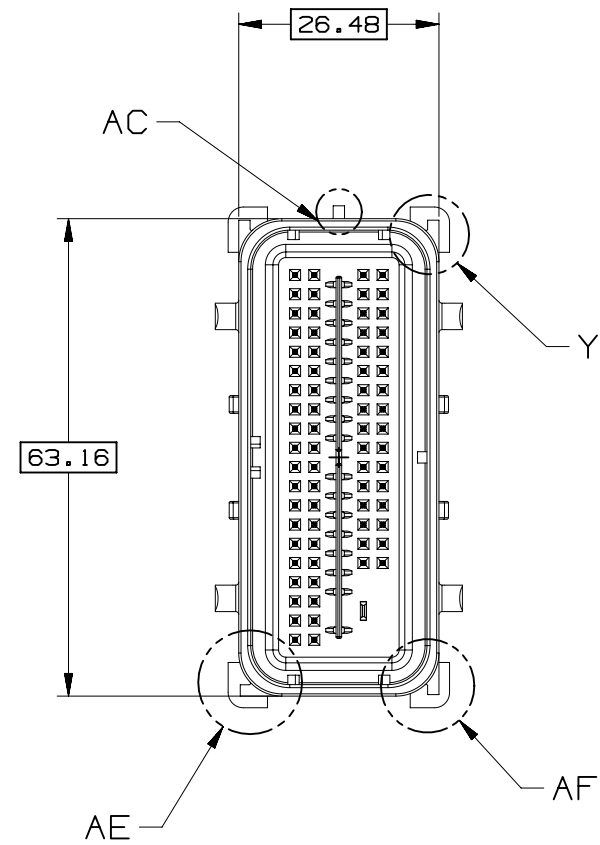
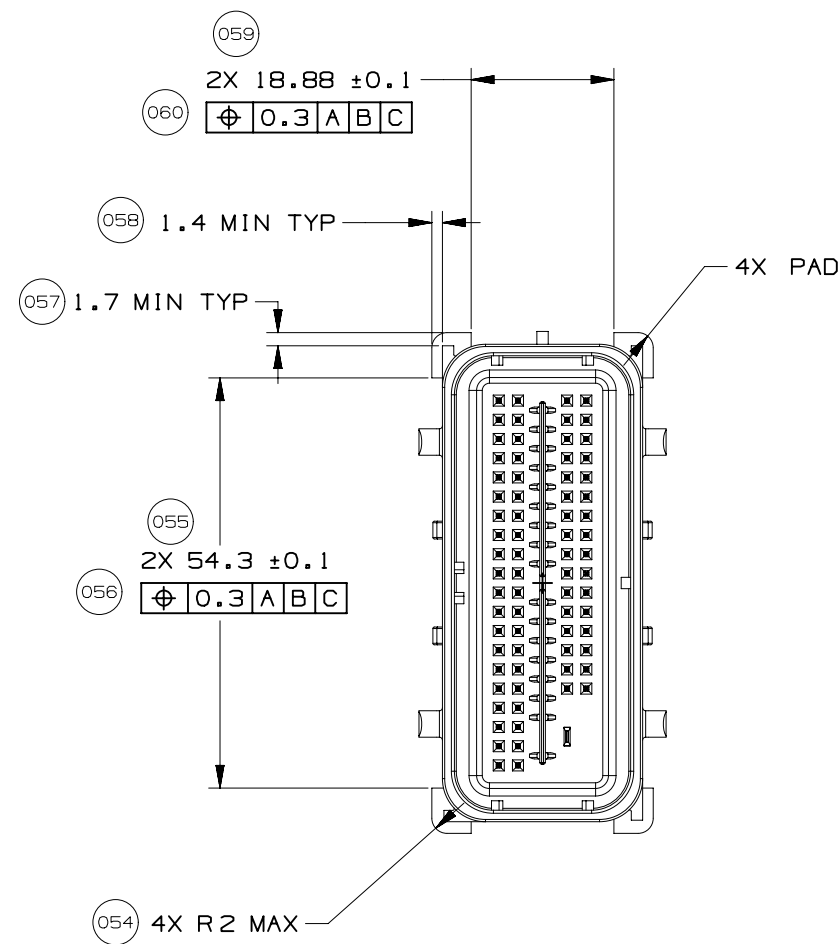
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PAGE TITLE
COMPONENT CONNECTOR INTERFACE

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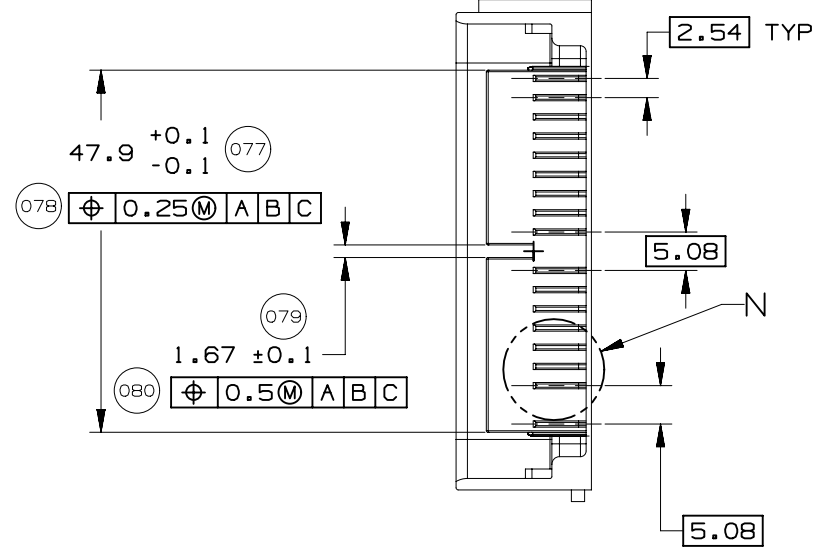
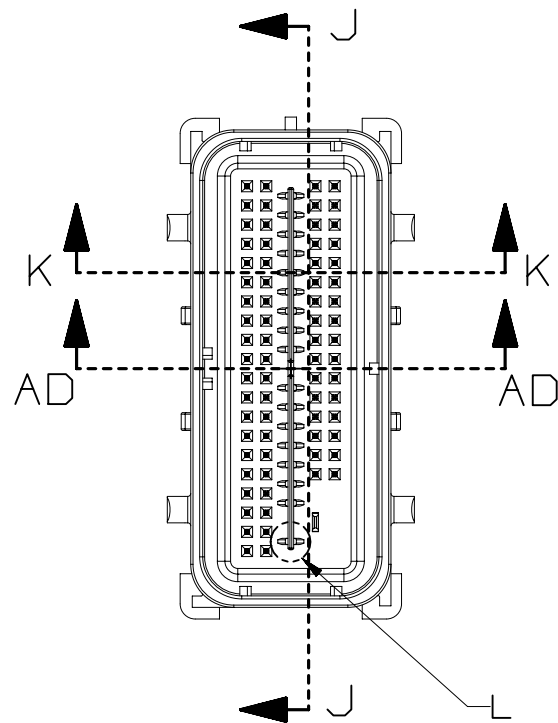
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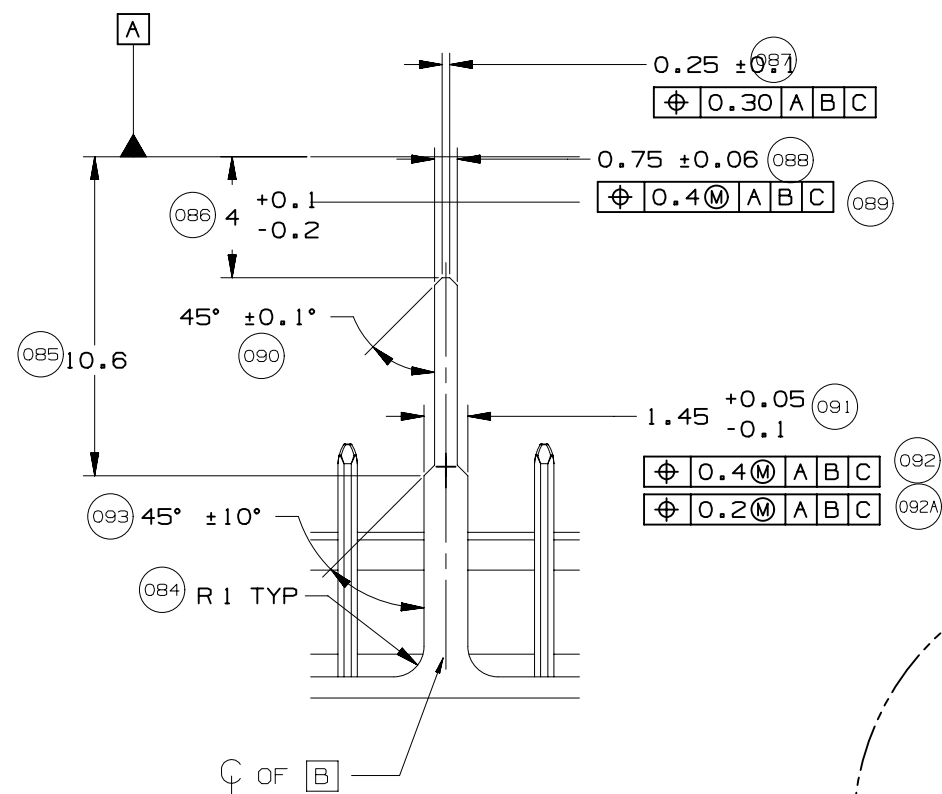
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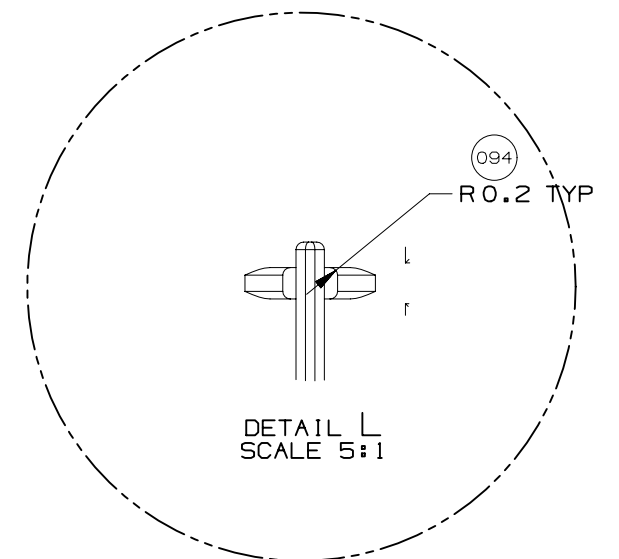
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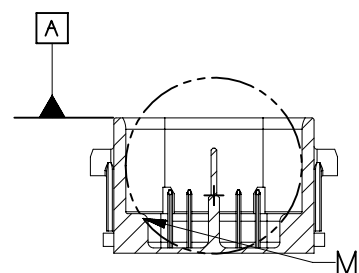
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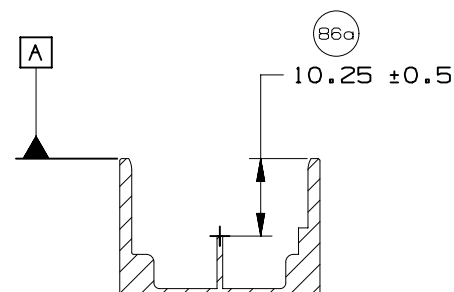
DETAIL M
TYPICAL
SCALE 4:1



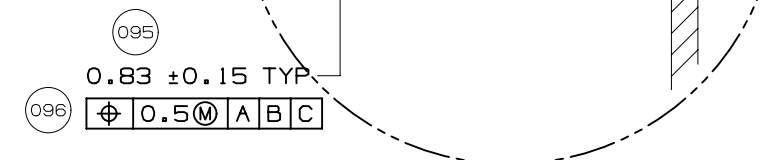
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SECTION K-K



SECTION AD-AD



DETAIL N
SCALE 5:1

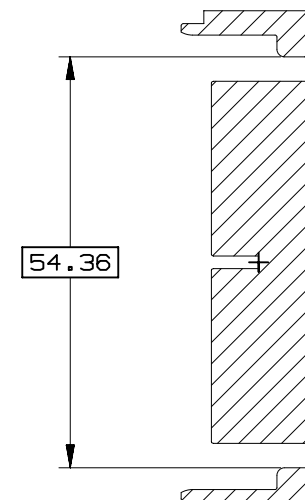
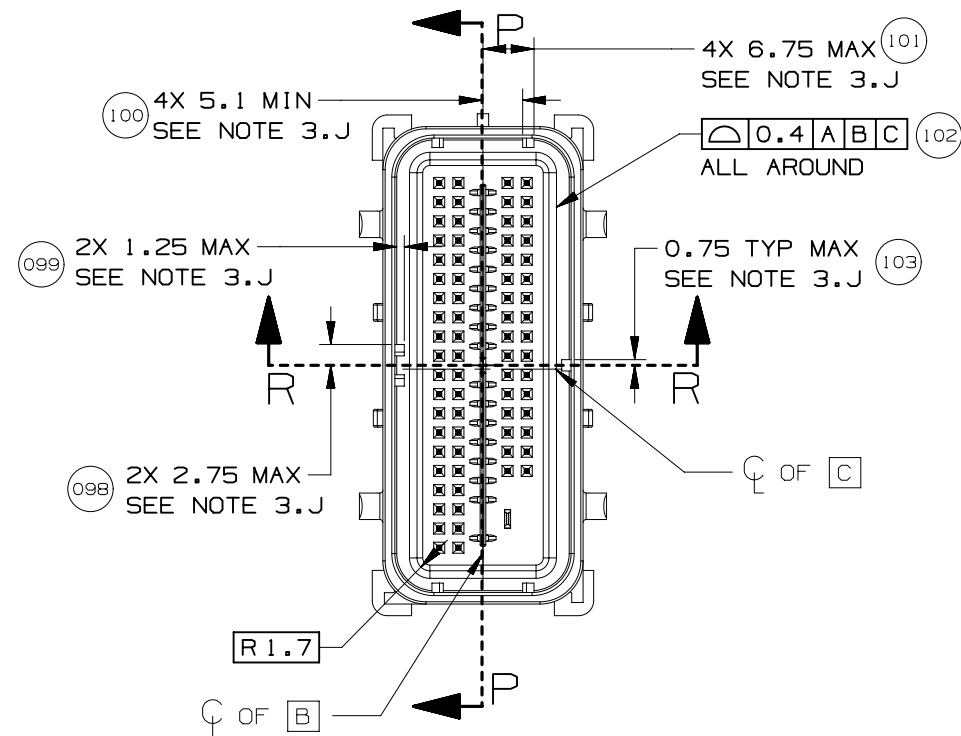


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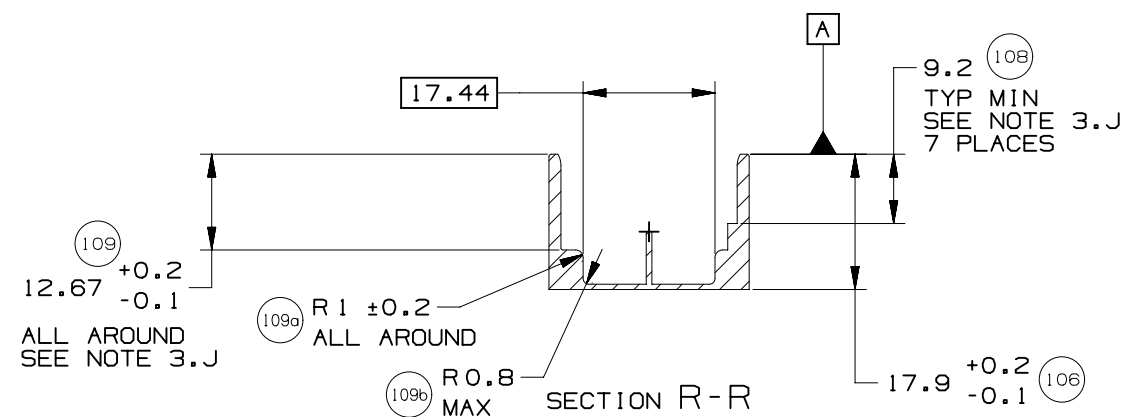
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SECTION P-P



SECTION R-R

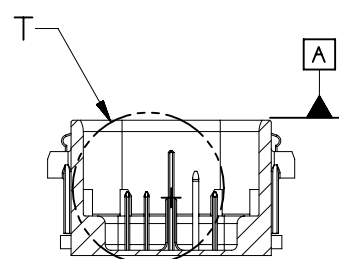
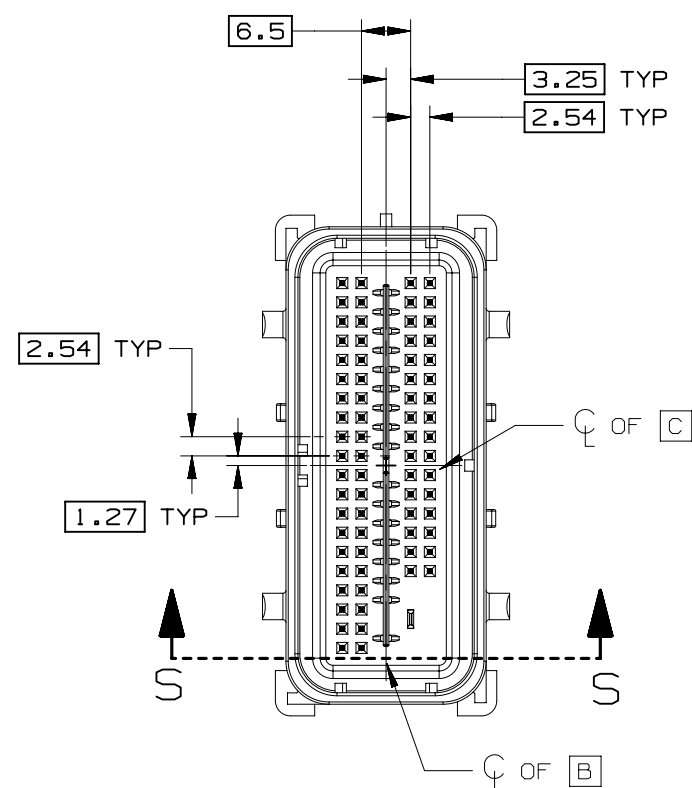


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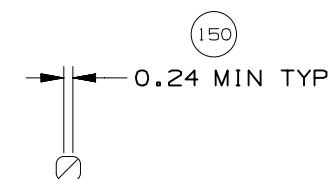
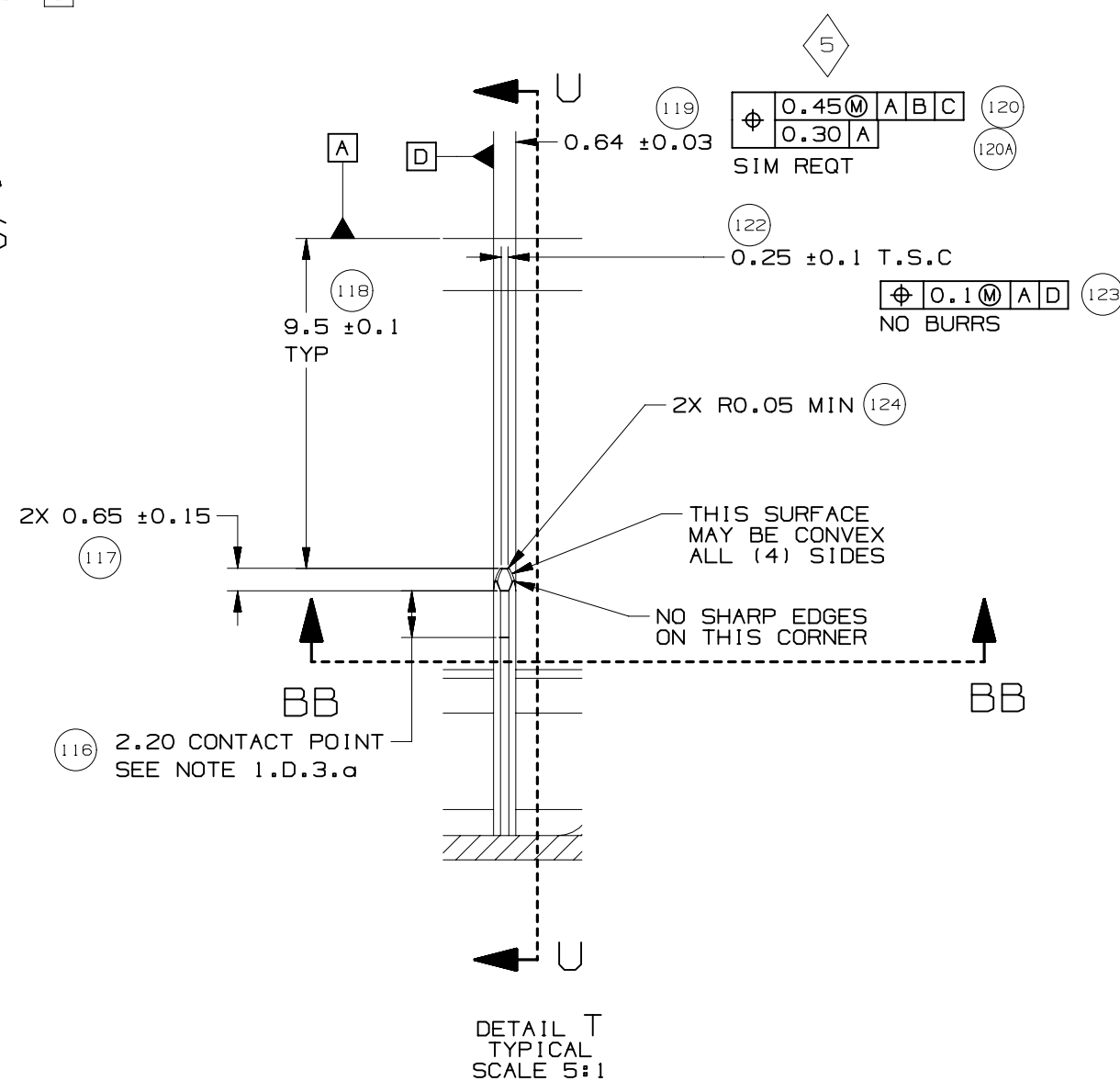
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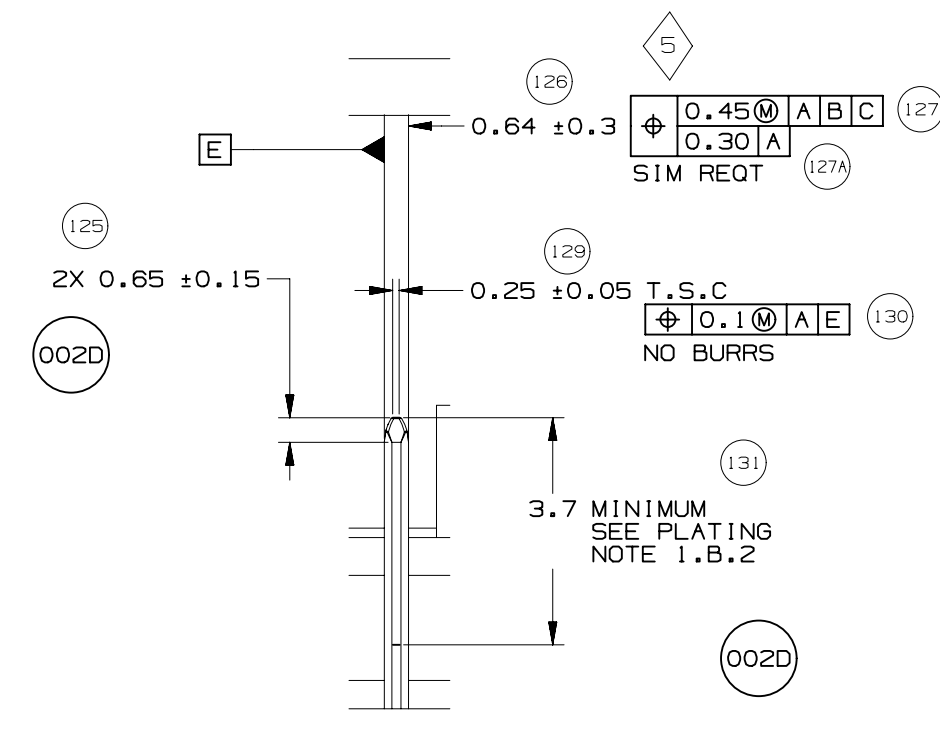
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SECTION S-S

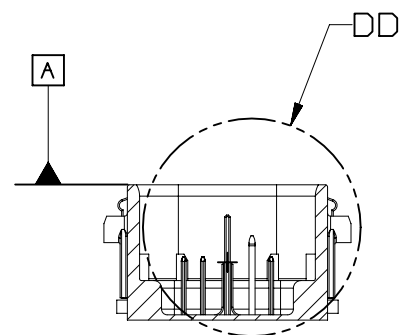
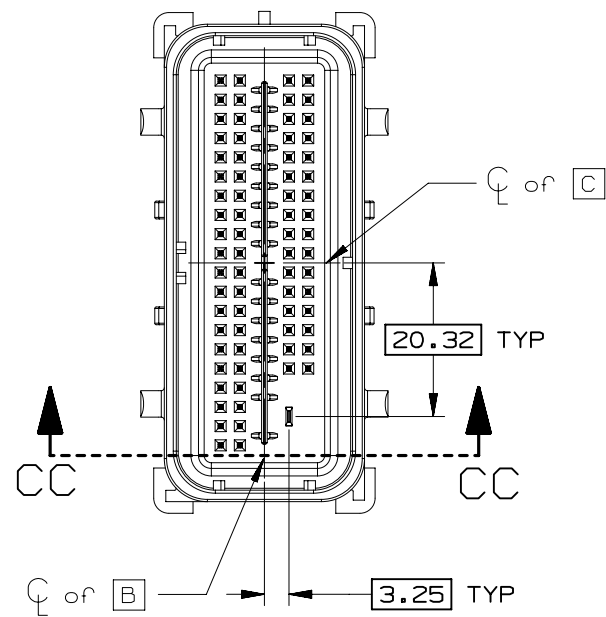


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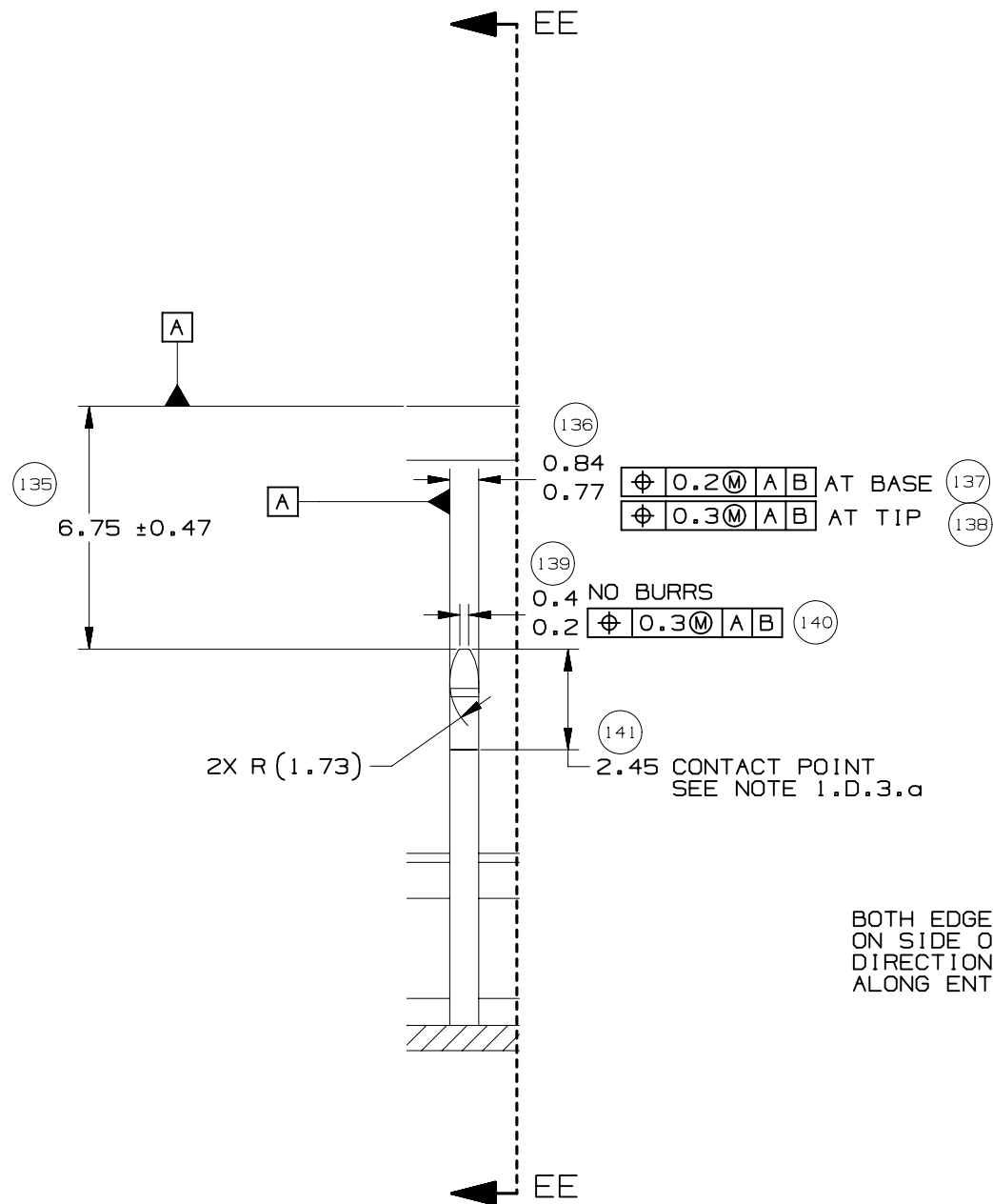


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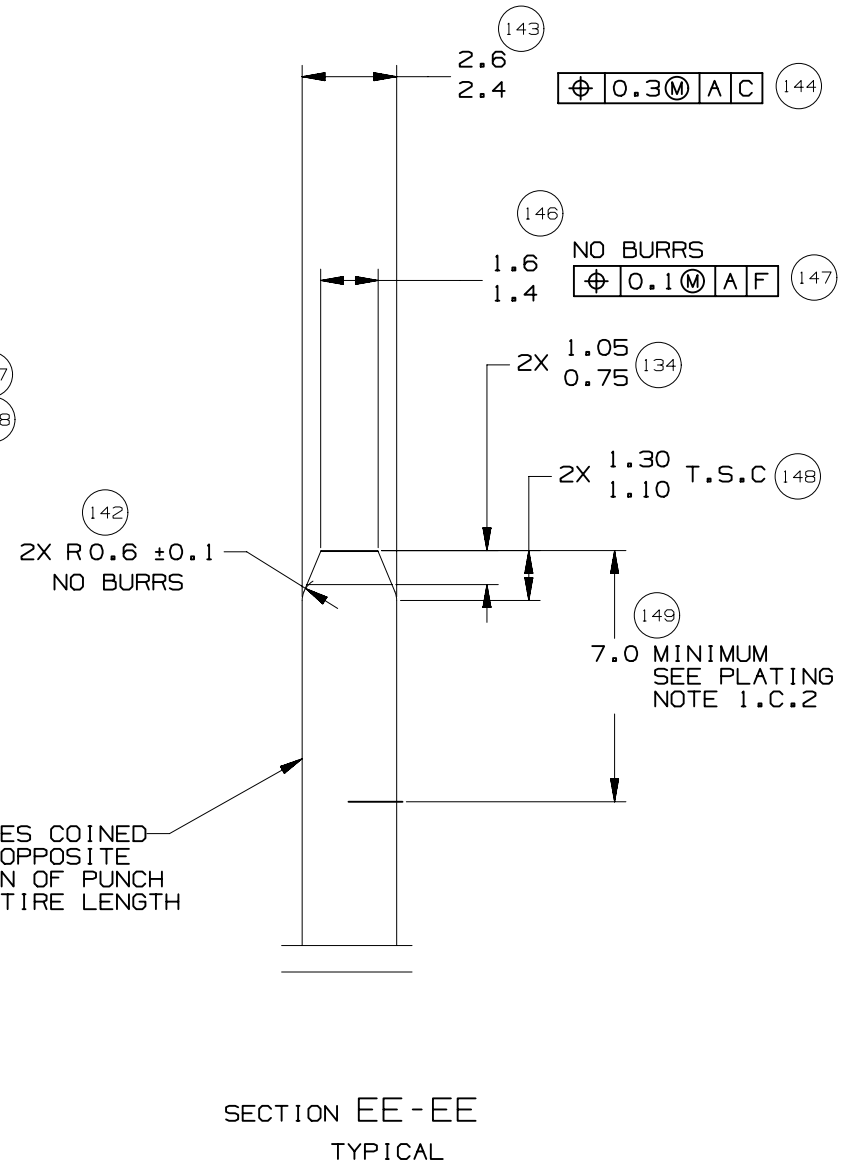




SECTION CC-CC



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TYPICAL
SCALE 5:1



SECTION EE-EE
TYPICAL



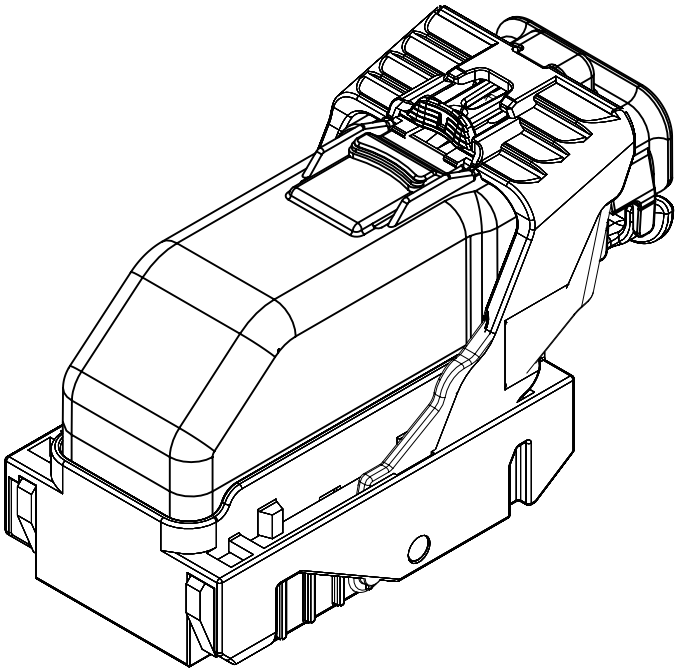
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COMPONENT CONNECTOR INTERFACE

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ISO VIEW

GM		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			
		UC CHANGE RESTRICTED NO MANUAL CHANGES		REFERENCE	DRAFTER	22DE05		
12H (MOLEX AUTOMOTIVE)	APVD1			D PFAFFINGER	22DE05			
	APVD2			B BURT	22DE05			
	APVD3							
	APVD4							
	APVD5							
DO NOT SCALE		DRAWING NAME HARNESS CONN ASM 66/73/80 CKTS						
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED								
		DRAWING NUMBER 12642695		DWG STATUS			PAGE NUMBER 1 OF 21	
				ST	REV	PD1		
				R	002			

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PD1					
	19DE11	R	001			RELEASED TO PRODUCTION AT DLS A	CRM RJ B	SC	MRO	GF
3	08MY15	R	002	A		REORDERED PART BLOCK AND ADDED MASS CORRECTED P/N TYPO FROM 12562676 TO 12582676				
3, 5		R	002	B		ADDED 12659312, 12659313, 12653574 AND 12653575				
6		R	002	C		REMOVED NOTE 1 . D . 3 . C				
20		R	002	D		DIM 125 WAS 3.25 DIM 131 WAS 5.5	CRM RJ D	DFK	MRO	GF

PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG
	DATE	ST	REV	CHG	PD1					

(002B)

HIERARCHY /QUANTITY	DWG ITM	DWG RLTN SHIP	PART NUMBER	P-A ITM	D L S	ST	REV	P D I	N M C I	MASS (KG)	PART NAME	NOTES
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PARTS SHOWN ON DRAWING

	PAGE TITLE	DRAWING NUMBER	DWG STATUS			PAGE NUMBER			
	PART BLOCK		12642695	ST	REV	PDI	3	OF	21
			R	002					

				KEY PRODUCT CHARACTERISTICS (IN ACCORDANCE WITH QN 1805 OR QN 1050)						
				SAFETY/COMPLIANCE FIT/FUNCTION			TOTAL ON DRAWING	5		
							LAST NO. USED	5		
				NO	TYPE	DESCRIPTION		RATIONALE		PAGE/ZONE
				1	F/F	32.68		IMPROVE CONNECTOR SYSTEM MATING		15
	2	F/F	29.00		INSURE PROPER RELEASE OF LEVER		15			
	3	F/F	15.25		INSURE FINAL MATE POSITION		16			
	5	F/F	POSITIONAL TOLERANCE (2 PLACES)		INSURE CONNECTOR SYSTEM MATEABILITY		19			
	PAGE TITLE KPC BLOCK		DRAWING NUMBER 12642695	DWG STATUS			PAGE NUMBER			
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				R	002					
							4	OF	21	

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 66/73/80 CKT	N/A	N/A	N/A	BLACK	AVAILABLE				
2	MOLEX	34822-0013	12642692	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	0	1458	BLACK	AVAILABLE				
3	MOLEX	34822-0033	12659312	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	0	2467	BLUE	AVAILABLE				
4	MOLEX	34822-0023	12642693	01SP13	MX123 HRNS CONN ASSY 66 CKT	A	9	1458	BLACK	AVAILABLE				
5	MOLEX	34822-0043	12659313	01SP13	MX123 HRNS CONN ASSY 66 CKT	C	9	2467	BLUE	AVAILABLE				
6	MOLEX	34566-0103	12582677	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	0	1458	BLACK	AVAILABLE				
7	MOLEX	34566-0203	12582678	11JN04	MX123 HRNS CONN ASSY 73 CKT	B	0	1468	ST GRAY	AVAILABLE				
8	MOLEX	34566-0303	12615654	09AP08	MX123 HRNS CONN ASSY 73 CKT	C	0	2467	BLUE	AVAILABLE				
9	MOLEX	34566-0403	12647268	T.B.D	MX123 HRNS CONN ASSY 73 CKT	D	0	2367	BROWN	NOT ACTIVE				
10	MOLEX	34566-0503	AMJ28633	T.B.D	MX123 HRNS CONN ASSY 73 CKT	E	0	2468	GREEN	NOT ACTIVE				
11	MOLEX	34566-0603	12653574	05DC14	MX123 HRNS CONN ASSY 73 CKT	F	0	1357	NATURAL	AVAILABLE				
12	MOLEX	34566-0703	12588057	09AP08	MX123 HRNS CONN ASSY 80 CKT	G	0	1358	BLUE	AVAILABLE				
13	MOLEX	34566-0803	12588058	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	0	2458	ST GRAY	AVAILABLE				
14	MOLEX	34566-0903	12615656	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	0	2457	BLACK	NOT ACTIVE				
15	MOLEX	34566-1003	AMJ28595	T.B.D	MX123 HRNS CONN ASSY 80 CKT	K	0	2357	BROWN	NOT ACTIVE				
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17	MOLEX	34566-1203	AMJ28669	T.B.D	MX123 HRNS CONN ASSY 80 CKT	M	0	2358	NATURAL	NOT ACTIVE				
18	MOLEX	34566-1303	12603596	11JN04	MX123 HRNS CONN ASSY 73 CKT	A	9	1458	BLACK	AVAILABLE				
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21	MOLEX	34566-1603	12647269	T.B.D	MX123 HRNS CONN ASSY 73 CKT	D	9	2367	BROWN	NOT ACTIVE				
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25	MOLEX	34566-2003	12603599	11JN04	MX123 HRNS CONN ASSY 80 CKT	H	9	2458	ST GRAY	AVAILABLE				
26	MOLEX	34566-2103	12615657	T.B.D	MX123 HRNS CONN ASSY 80 CKT	J	9	2457	BLACK	NOT ACTIVE				
27	MOLEX	34566-2203	AMJ29117	T.B.D	MX123 HRNS CONN ASSY 80 CKT	K	9	2357	BROWN	NOT ACTIVE				
28	MOLEX	34566-2303	AMJ29136	T.B.D	MX123 HRNS CONN ASSY 80 CKT	L	9	2368	GREEN	NOT ACTIVE				
29	MOLEX	34566-2403	AMJ29214	T.B.D	MX123 HRNS CONN ASSY 80 CKT	M	9	2358	NATURAL	NOT ACTIVE				
30	MOLEX	34736-2002	12642697	01AU10	MX64 RCPT TERM Ag 18/20 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE				
31	MOLEX	34736-2001	12642696	01AU10	MX64 RCPT TERM Ag 22 GAGE B (RIGHT PAYOFF)	N/A	N/A	N/A	N/A	AVAILABLE				
32	MOLEX	34586-0001	T.B.D.	11JN04	MX123 0.64MM GROMMET PLUG	N/A	N/A	N/A	NATURAL	AVAILABLE				
33	YAZAKI	7116-4150-02	12588066	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 20/22 GAGE (CABLE RANGE 0.30mm-0.60mm)	N/A	N/A	N/A	N/A	NOT ACTIVE				
34	YAZAKI	7116-4151-02	12588067	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 16/18 GAGE (CABLE RANGE 0.75mm-1.40mm)	N/A	N/A	N/A	N/A	NOT ACTIVE				
35	YAZAKI	7116-4152-02	12582685	02JN03	2.8mm YESC SEALED FEMALE TERMINAL TIN 14 GAGE (CABLE RANGE 1.50mm-2.50mm)	N/A	N/A	N/A	N/A	AVAILABLE				
36	YAZAKI	7158-3111-60	12588068	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.20mm-1.90mm)	N/A	N/A	N/A	GREEN	NOT ACTIVE				
37	YAZAKI	7158-3112-70	12588069	02JN03	2.8mm CABLE SEAL (wire O.D. range 1.80mm-2.30mm)	N/A	N/A	N/A	YELLOW	NOT ACTIVE				
38	YAZAKI	7158-3113-40	12582686	02JN03	2.8mm CABLE SEAL (wire O.D. range 2.18mm-3.00mm)	N/A	N/A	N/A	WHITE	AVAILABLE				
39	YAZAKI	7158-3114-90	T.B.D	02JN03	2.8mm YESC CAVITY PLUG	N/A	N/A	N/A	BLUE	AVAILABLE				
40	MOLEX	63811-4200	XX019825	02JN03	MX64 TERM HAND CRIMP TOOL	N/A	N/A	N/A	N/A	AVAILABLE				
41	MOLEX	63813-1400	XX019826	02JN03	MX64 TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE				
42	MOLEX	63865-8000	XX019827	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 18/20 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE				
43	MOLEX	63865-8070	XX019828	02JN03	MX64 APPLICATOR TOOL KIT 18/20 GAGE	N/A	N/A	N/A	N/A	AVAILABLE				
44	MOLEX	63865-8100	XX019829	02JN03	MX64 CRIMP APPLICATOR with TOOL KIT 22 GAGE PAYOFF DIRECTION D (left payoff) (contact Molex for payoff detail)	N/A	N/A	N/A	N/A	AVAILABLE				
45	MOLEX	63865-8170	XX019830	02JN03	MX64 APPLICATOR TOOL KIT 22 GAGE	N/A	N/A	N/A	N/A	AVAILABLE				
46	SPX	J35616-64	T.B.D.	02JN03	0.64mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE				
47	SPX	J35616-64A	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE				
48	SPX	J35616-65	T.B.D.	02JN03	0.64mm PROBE TOOL WITH EXT (for pin)	N/A	N/A	N/A	N/A	AVAILABLE				
49	SPX	J35616-4A	T.B.D.	02JN03	2.8mm PROBE TOOL (for rcpt)	N/A	N/A	N/A	N/A	AVAILABLE				
50	YAZAKI	X39899-J374	12094430	02JN03	2.8mm TERM SERVICE TOOL	N/A	N/A	N/A	N/A	AVAILABLE				
* - MX123 DRESS COVER 73/80/66 CKT MATES TO ANY MX123 HARN CONN ASSY SHOWN ON TABLE ABOVE														
		PAGE TITLE				DRAWING NUMBER			DWG STATUS			PAGE NUMBER		
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002B

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.
- 002C
- | | | | | | | | | |
|-------------------------------------|---------------------|--|----------------------------|------------|-----|-----|-------------|-------|
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NOTES: UNLESS OTHERWISE SPECIFIED

4. SYSTEM REQUIREMENTS:

- A. HARNESS CONNECTOR IS COMPATIBLE WITH THE FOLLOWING SAE WIRE SIZE NO'S:
14, MEETING SAE J1128
18, MEETING SAE J1128, MAX O.D. OF 2.06 MM
20, MEETING SAE J1128
22, MEETING SAE J1128, MIN O.D. OF 1.47 MM
- 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:

ALL TESTING DONE IN ACCORDANCE WITH USCAR-2 REV5 SECTION 5.3

- A. MX64 RCPT TERM
1. MX64 RCPT TERM Ag 18/20 GAGE CRIMPED TO SAE WIRE SIZE NO.18 AND MATED TO MX123 0.64MM PIN: 11.3 AMPS
2. MX64 RCPT TERM Ag 22 GAGE CRIMPED TO SAE WIRE SIZE NO.22 AND MATED TO MX123 0.64MM PIN:8.5 AMPS

WIRE	CURRENT RATING			
	23°C	85°C	105°C	125°C
18AWG	11.3A	11.3A	9.5A	6.6A
20AWG	10.0A	10.0A	8.3A	5.7A
22AWG	8.6A	8.6A	7.1A	5.0A

- B. 2.8MM RCPT TERM
1. 2.8MM RCPT TERM TIN 14 GAGE CRIMPED TO SAE WIRE SIZE NO.14 AND MATED TO MX123 2.8MM BLADE: 25.6 AMPS

6. CONTACT MOLEX AUTOMOTIVE FOR AVAILABLE CUSTOM PATTERNS OF CAVITIES OPEN FOR CIRCUITS

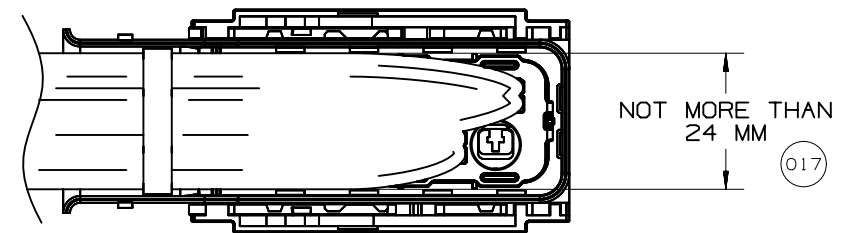
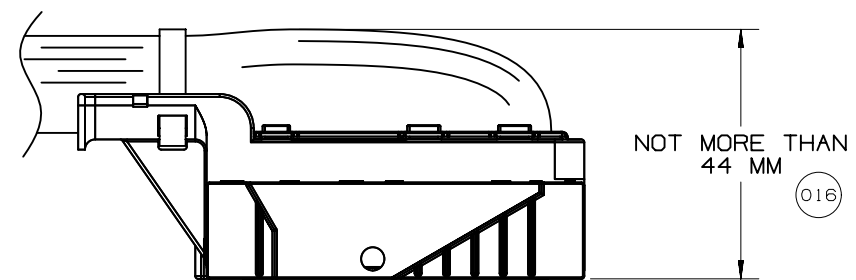
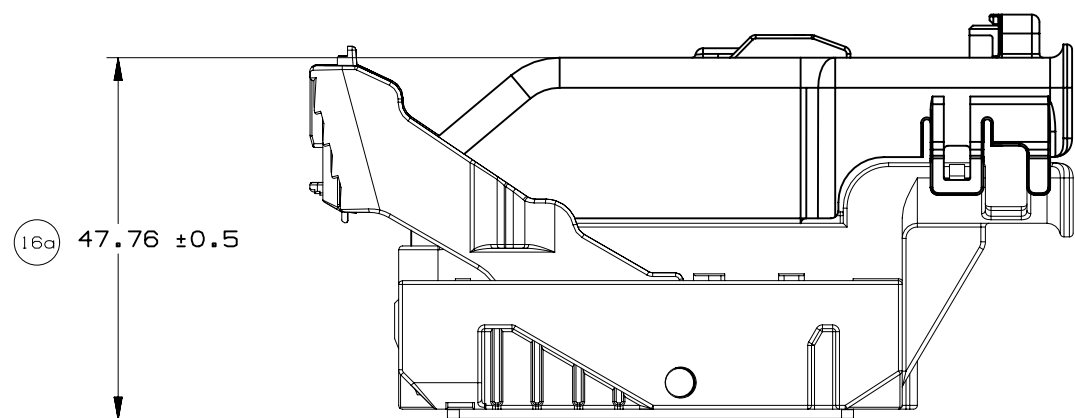
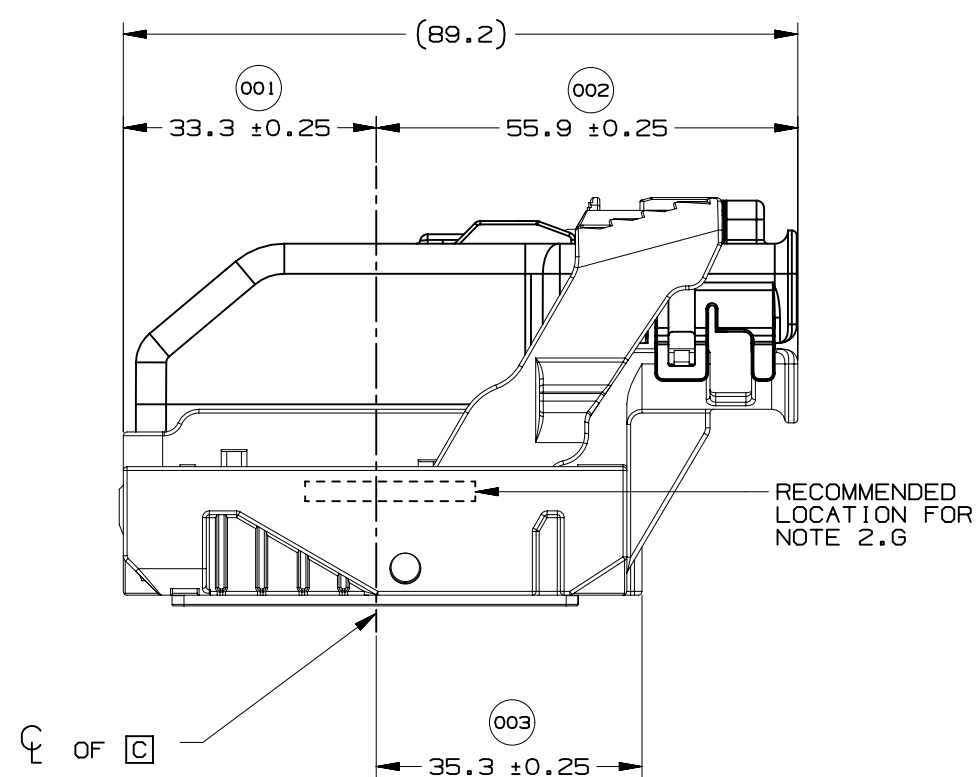
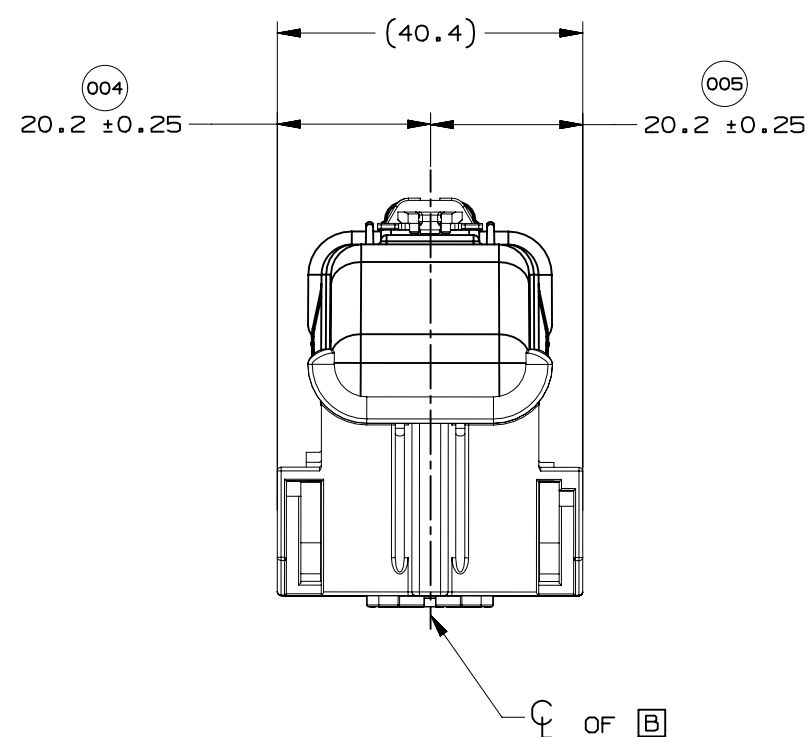


Fig. 1

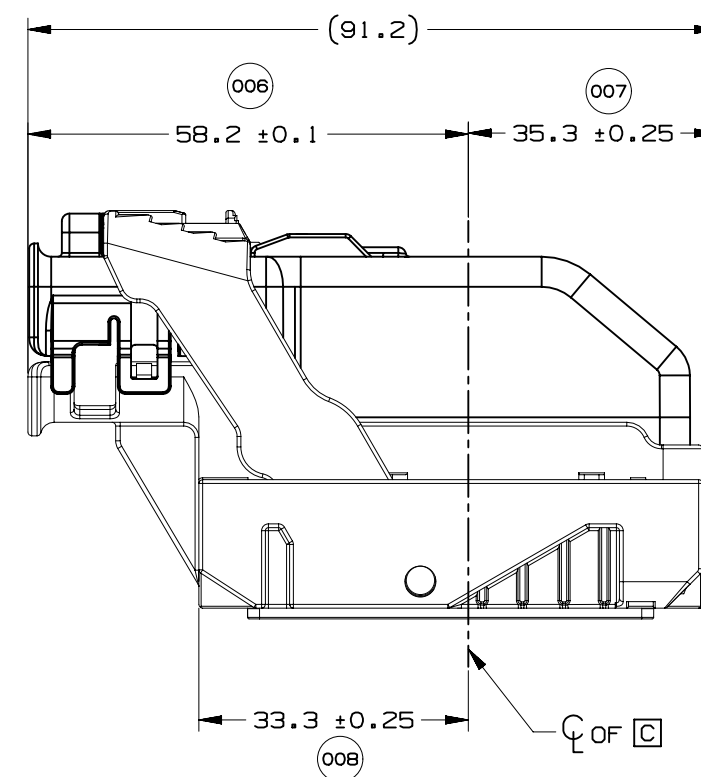




WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 0 SHOWN



WIRE DRESS OPTION 9 SHOWN



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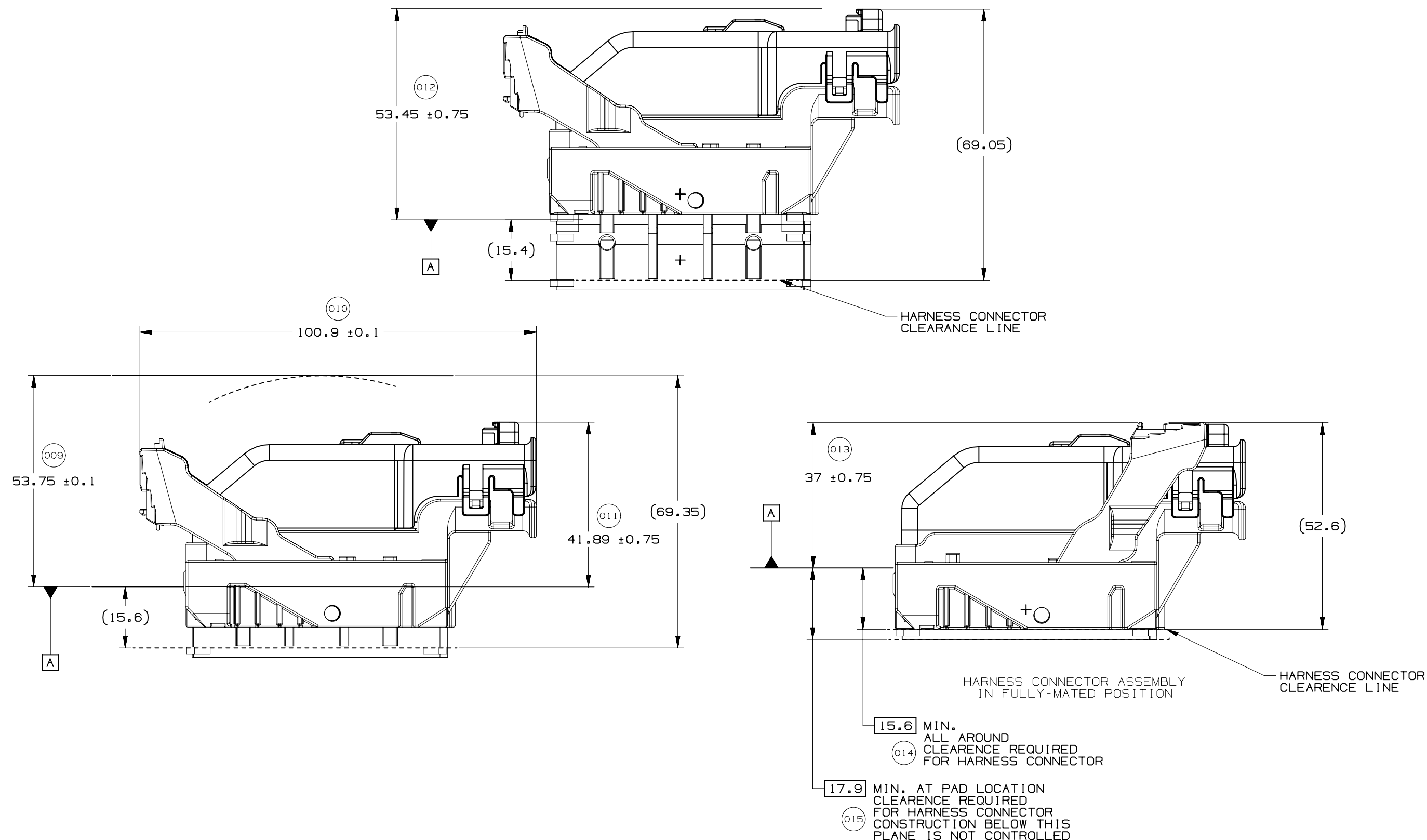
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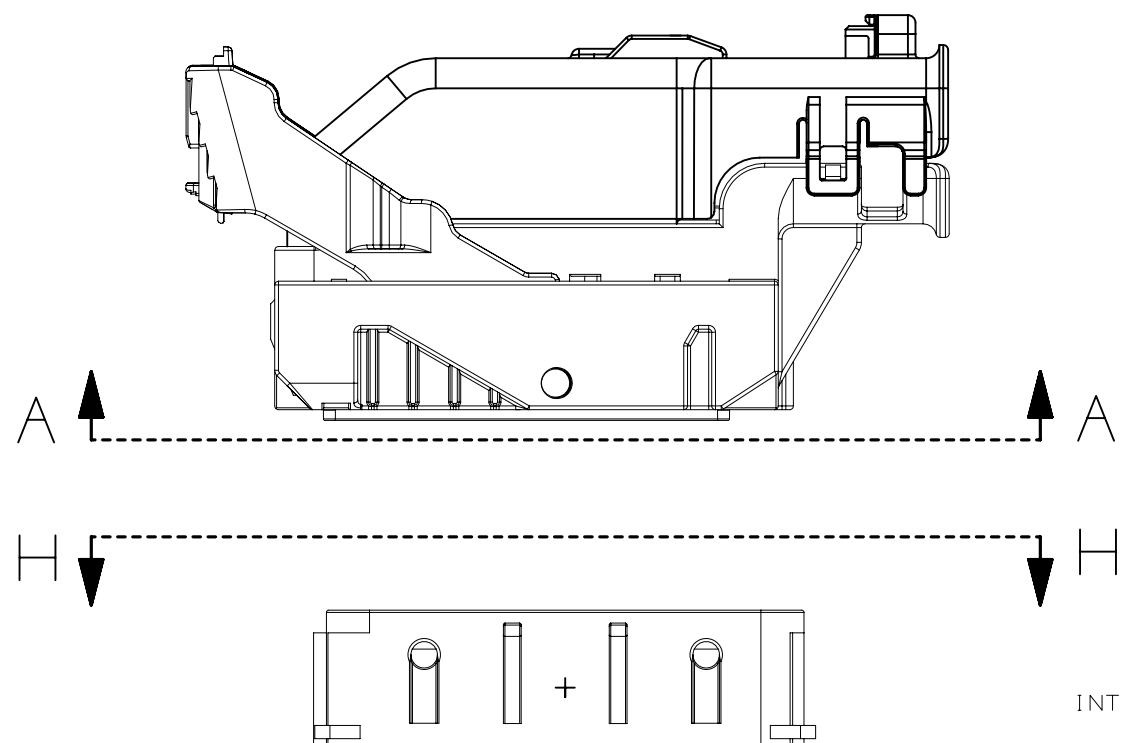
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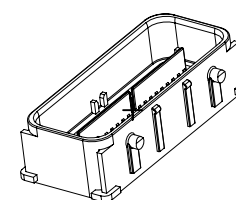
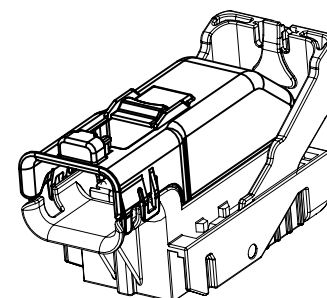
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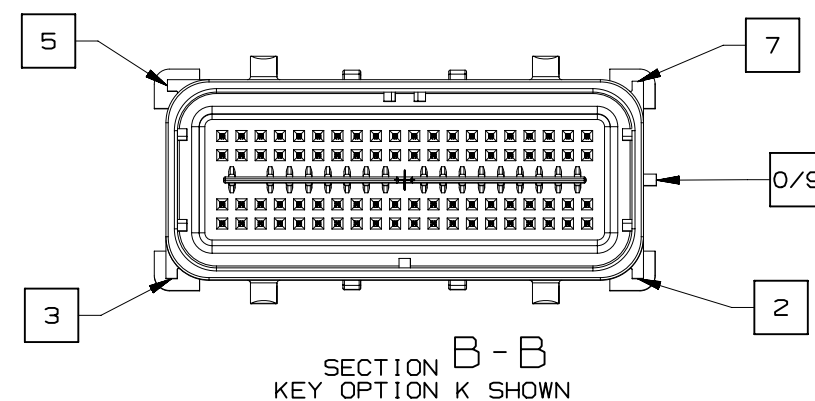
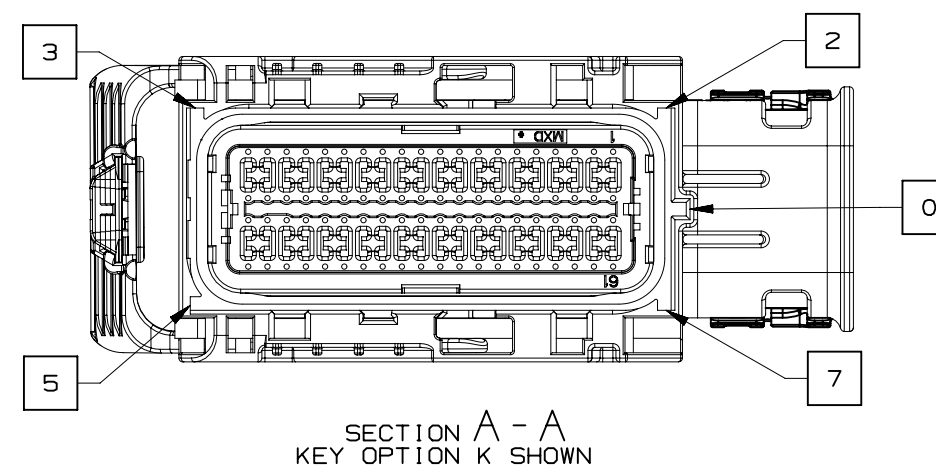
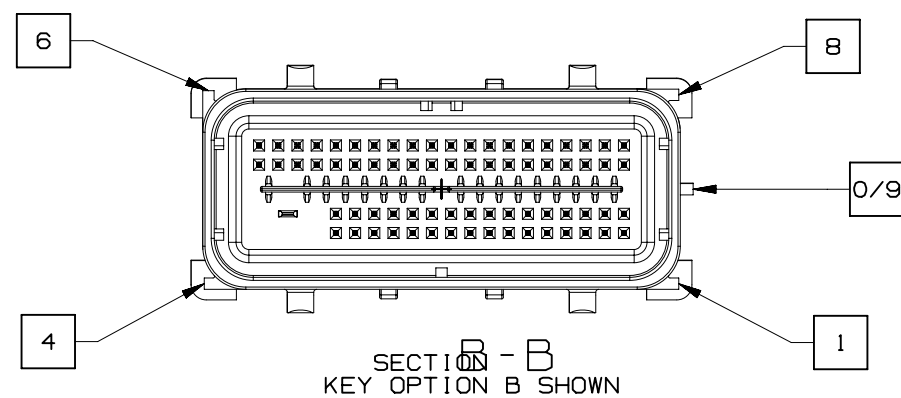
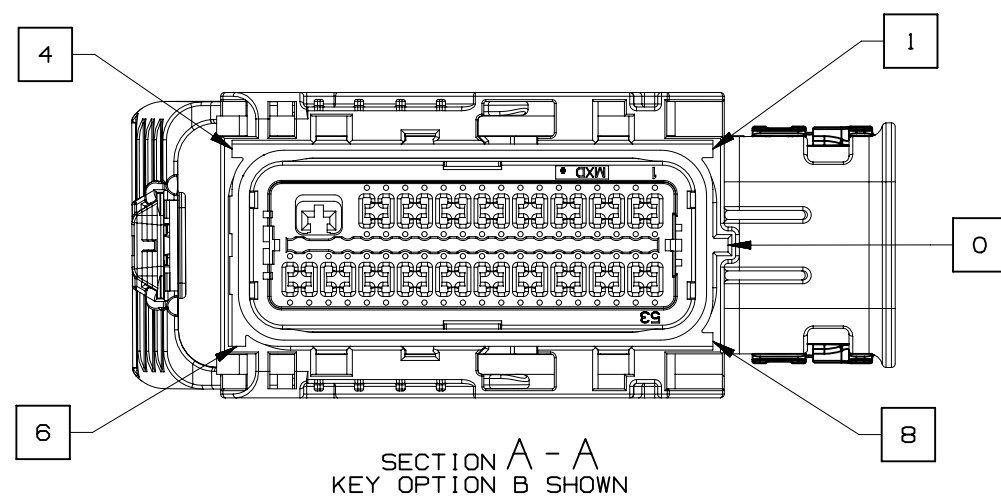
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INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS

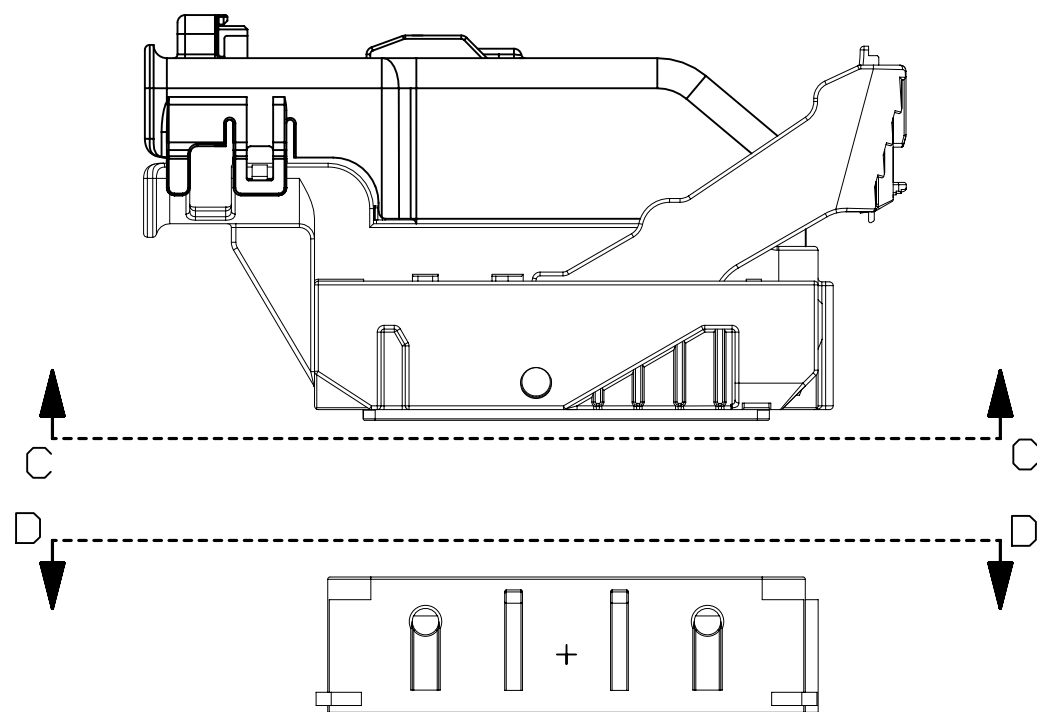


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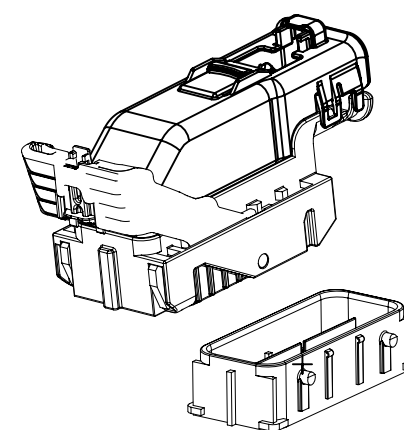
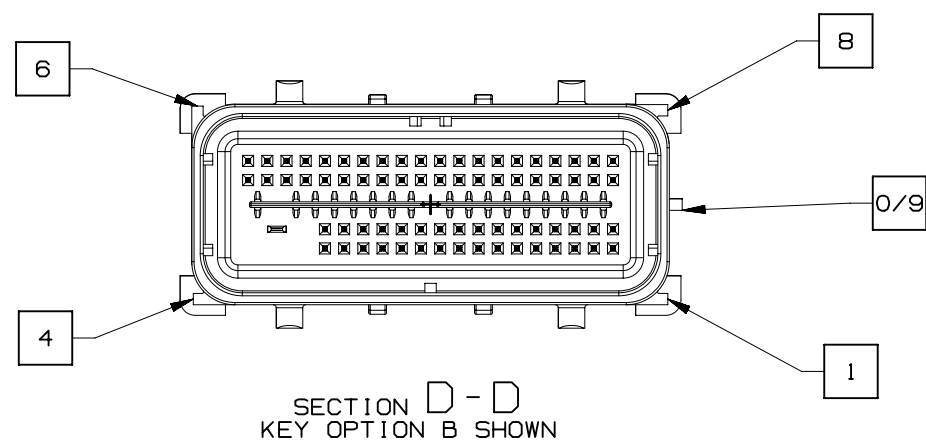
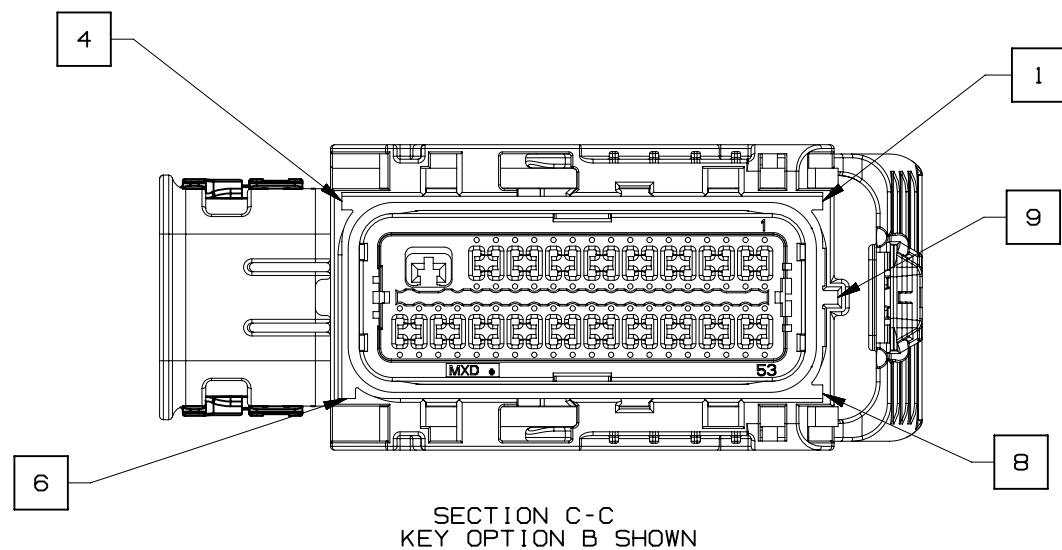
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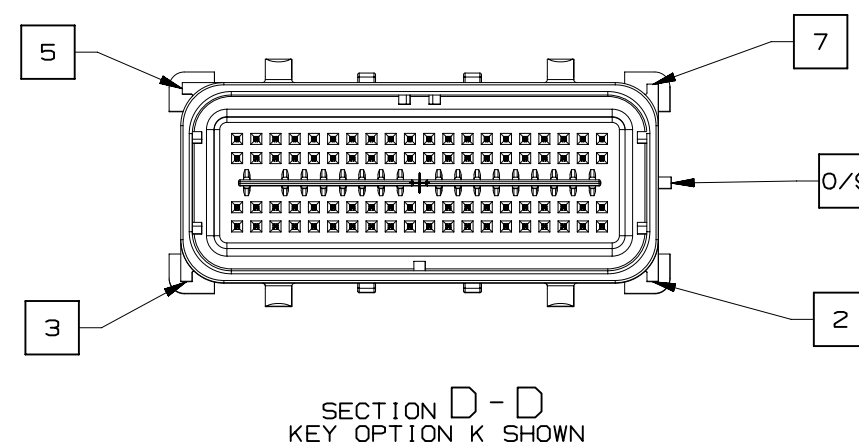
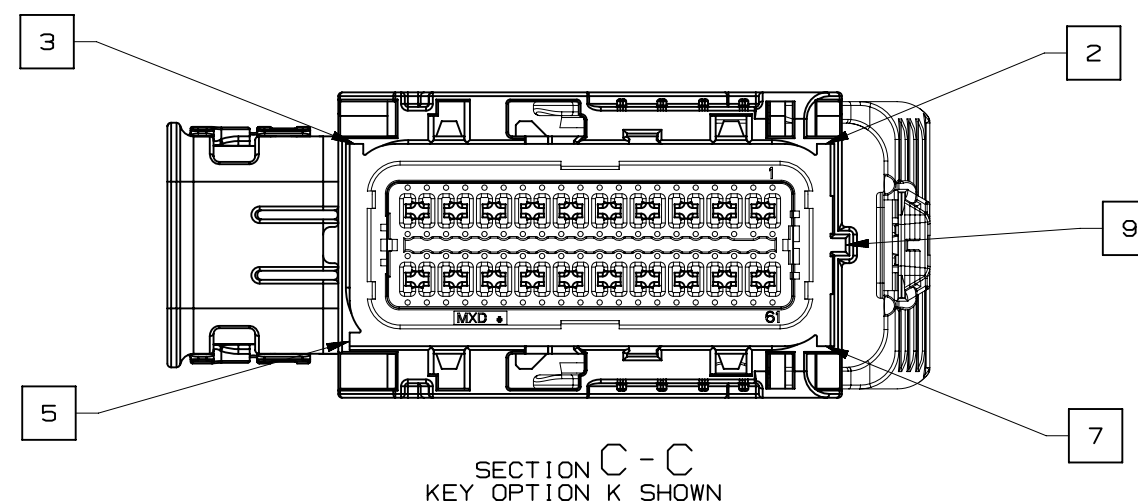


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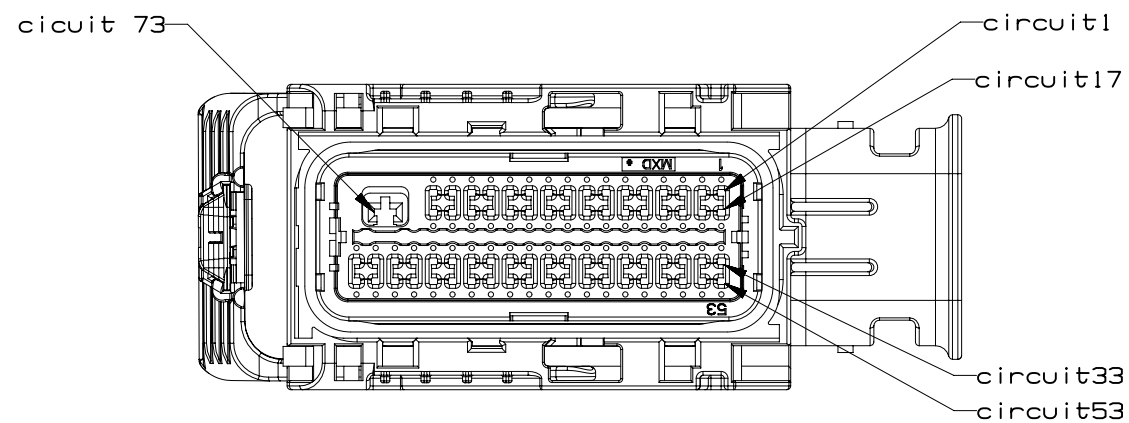


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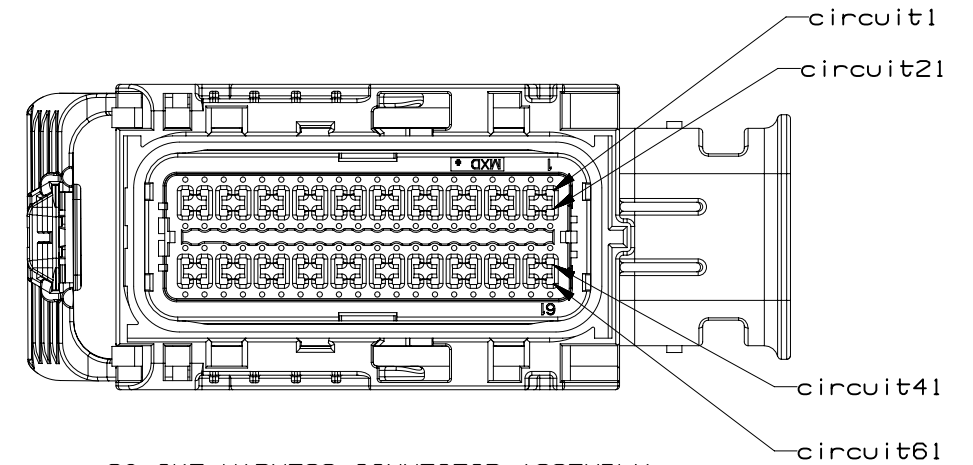
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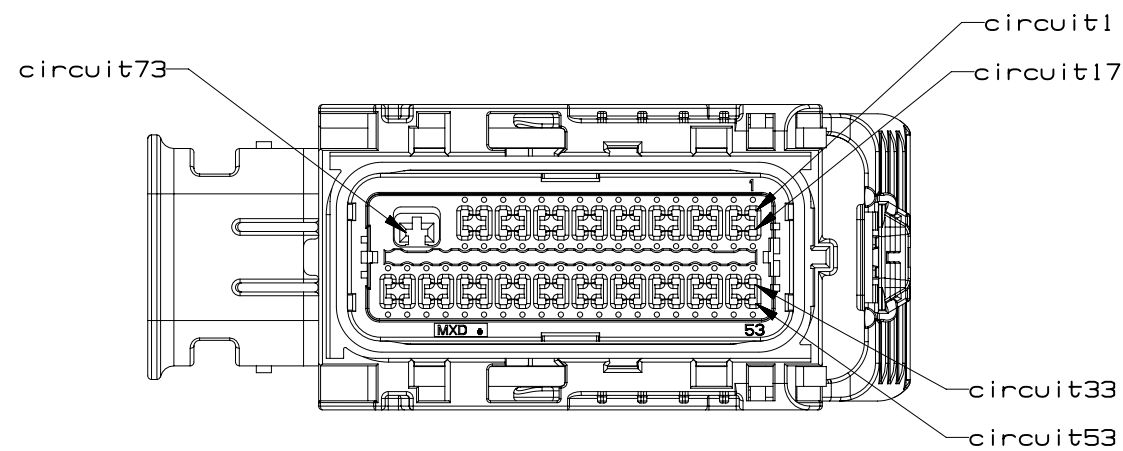


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WIRE DRESS OPTION 0

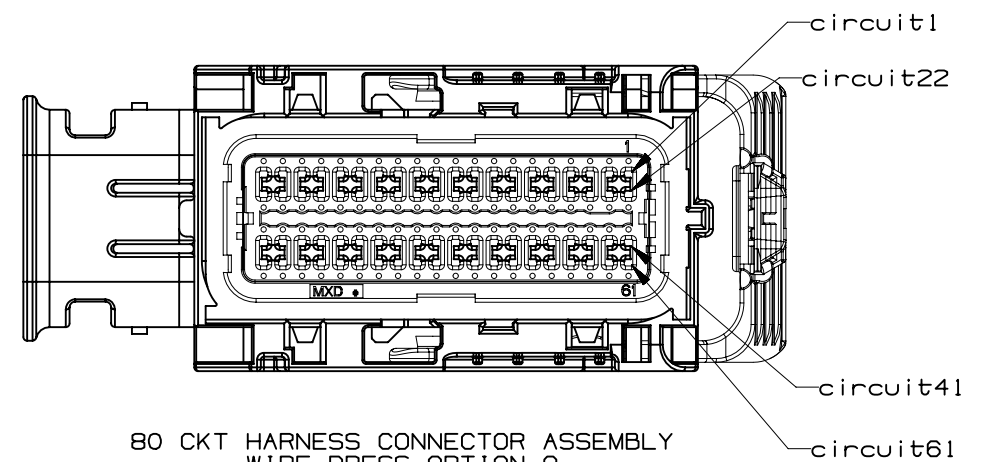


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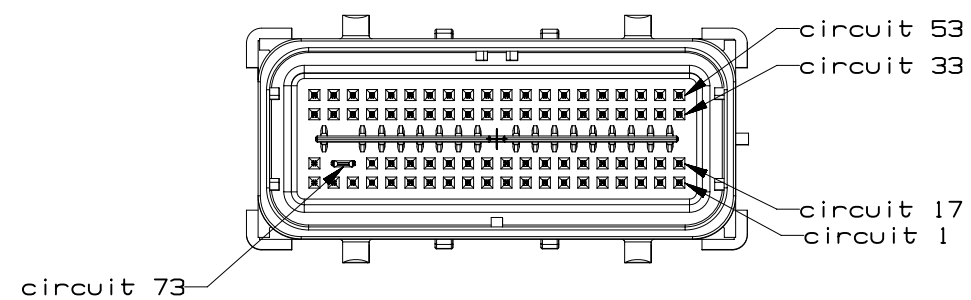
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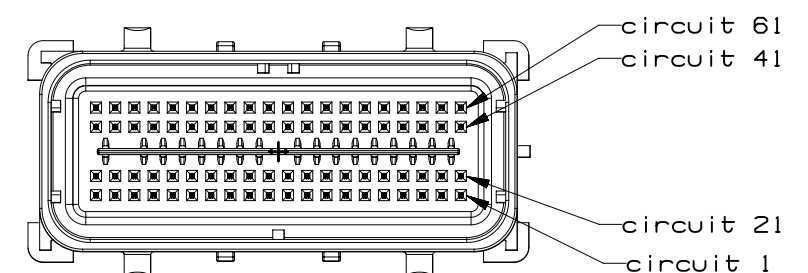
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WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

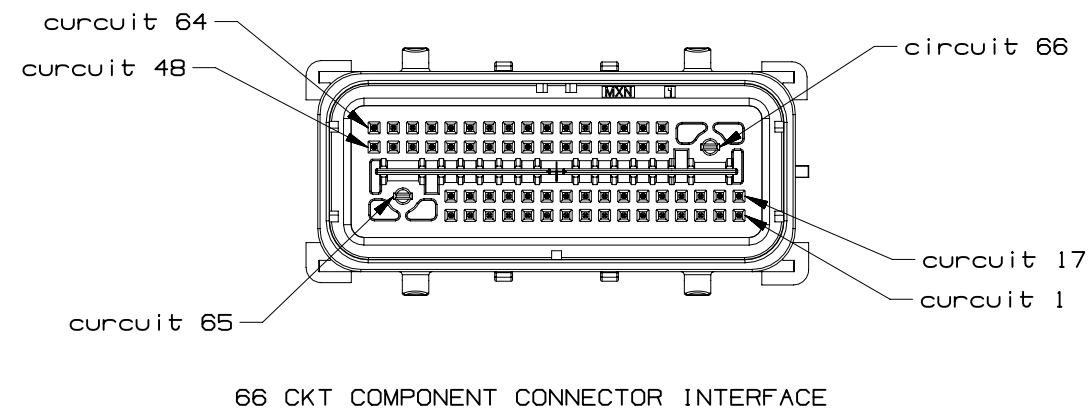
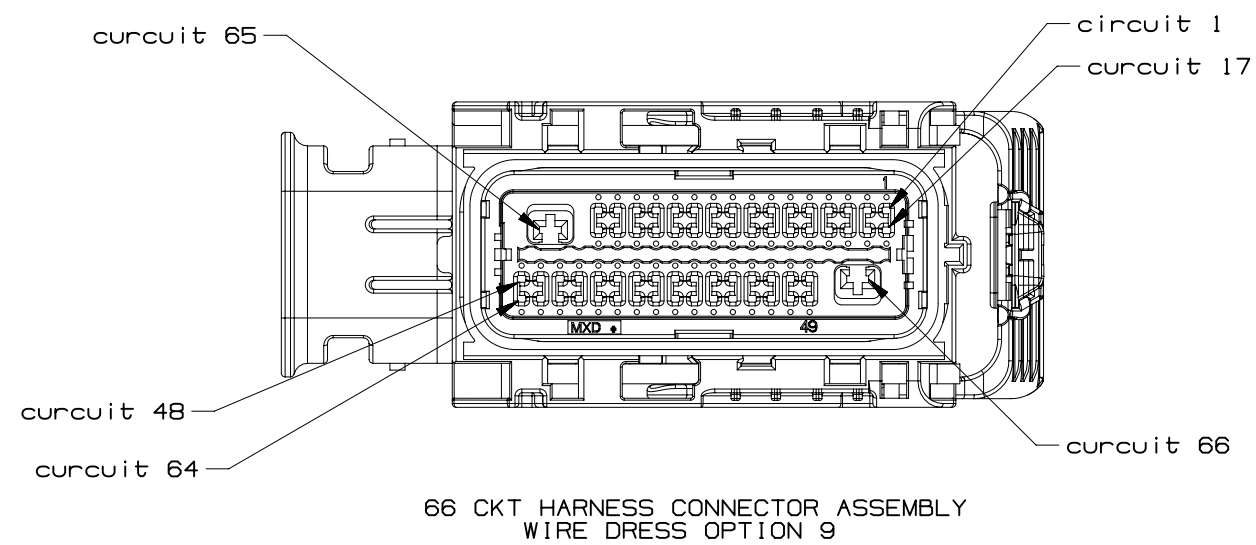
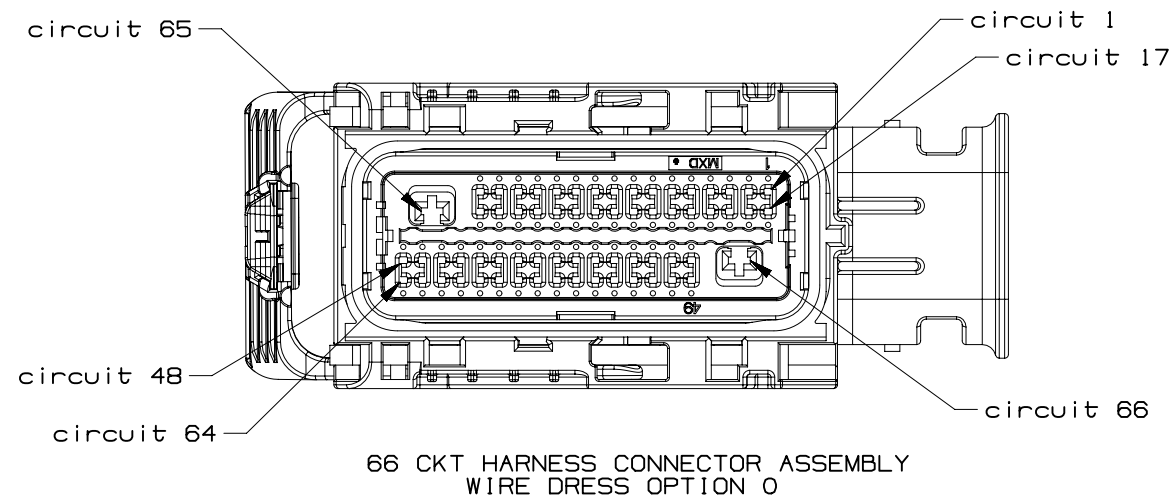


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE

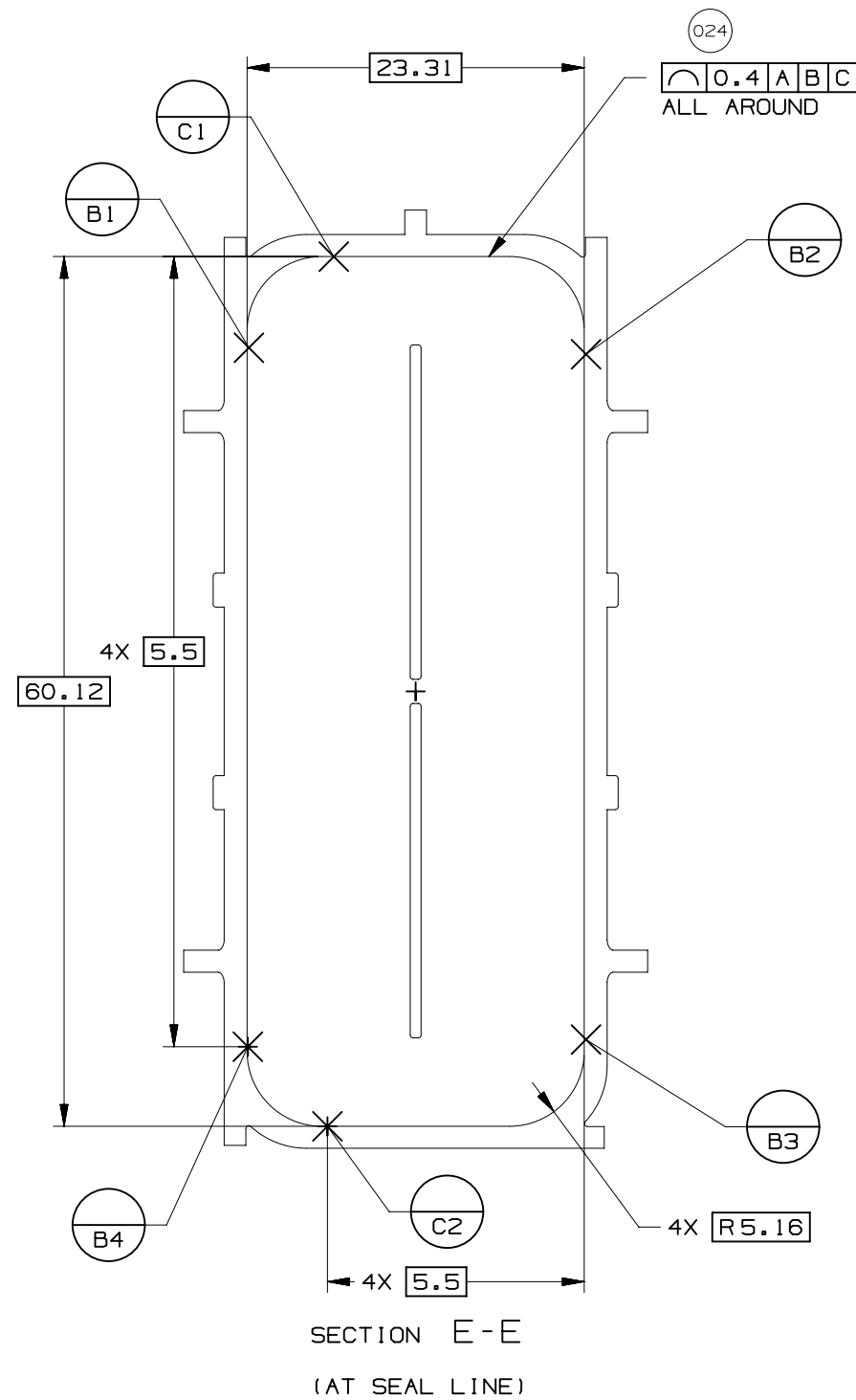
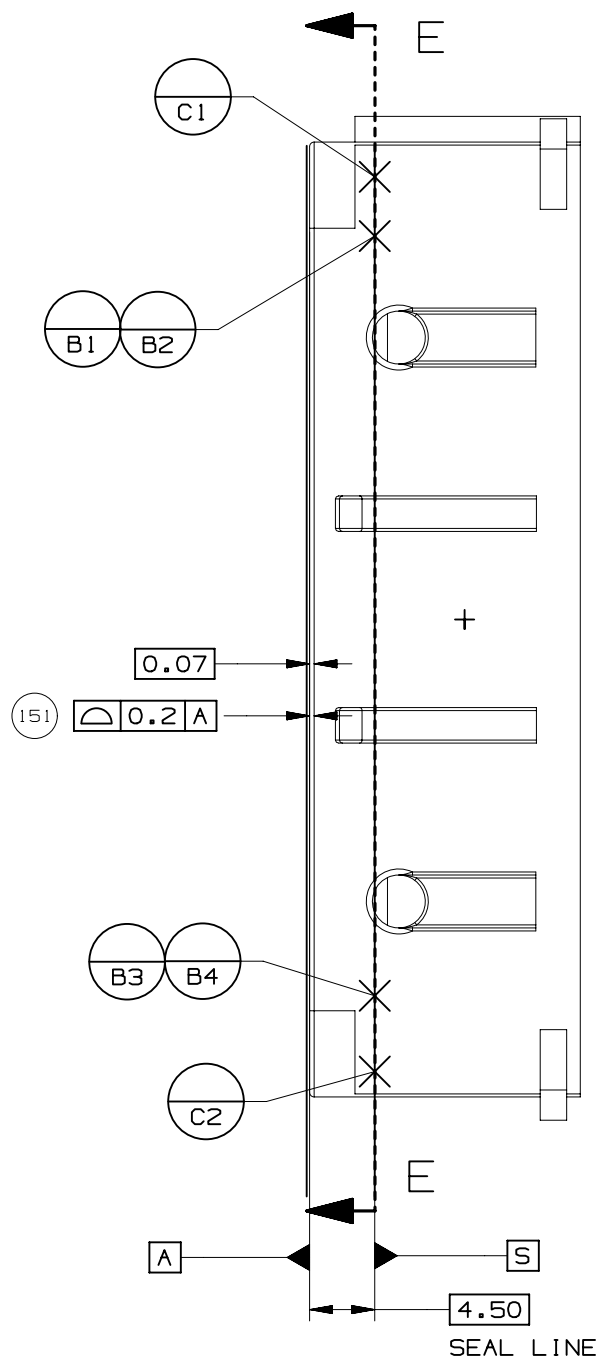
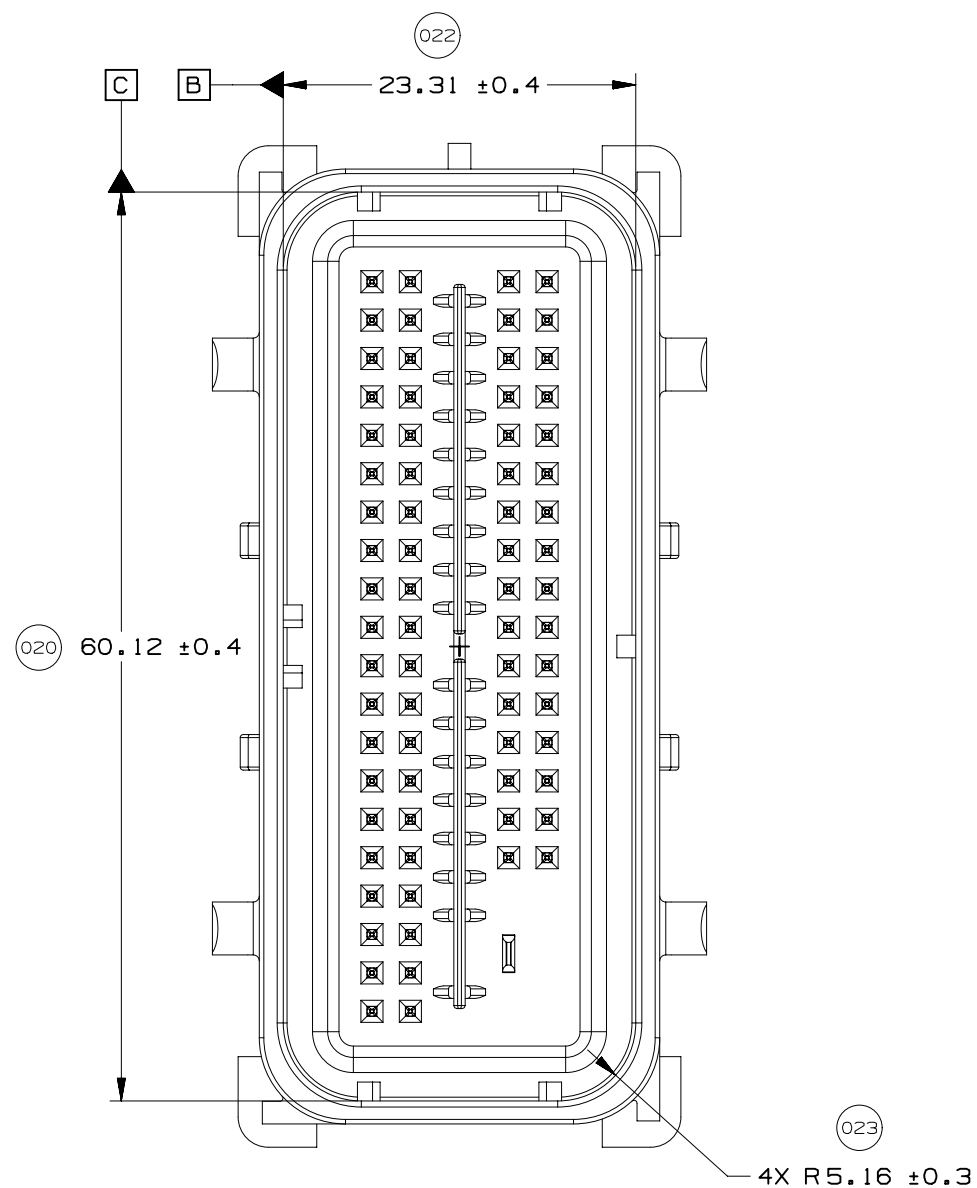
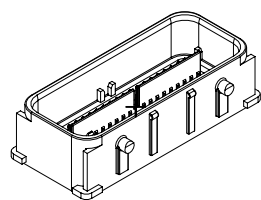




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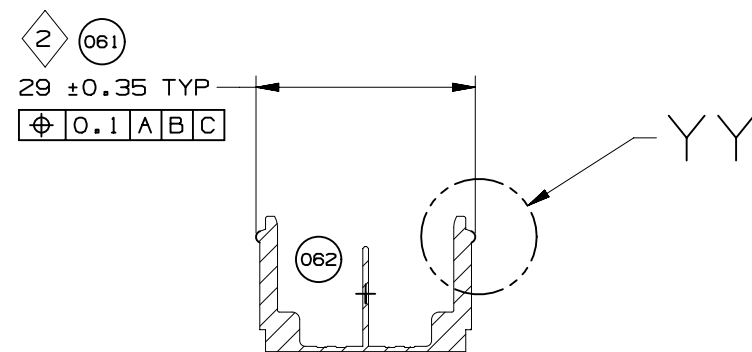
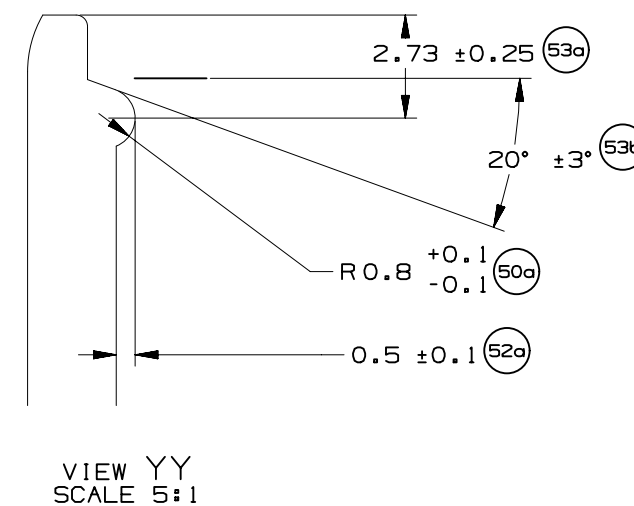
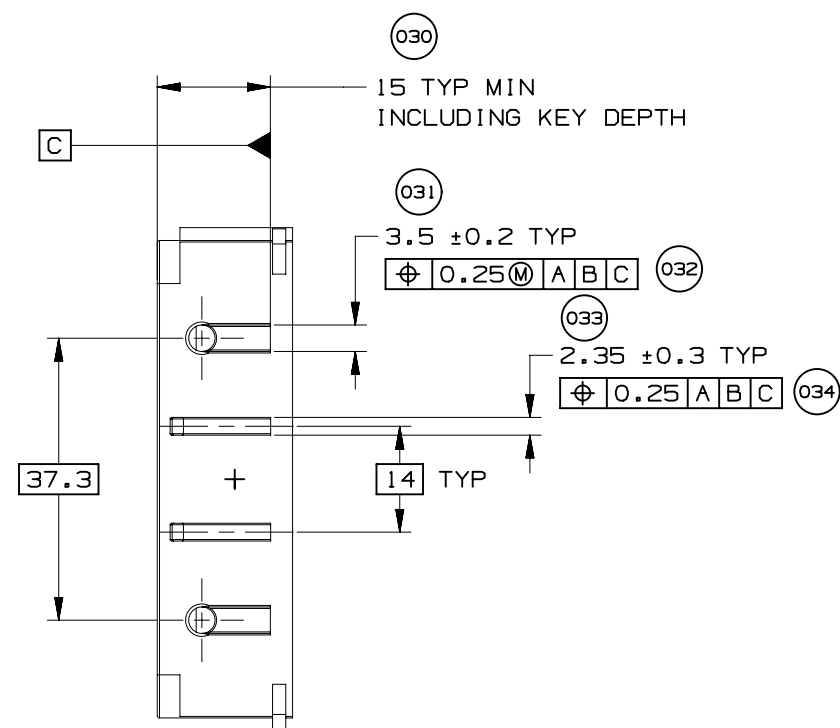
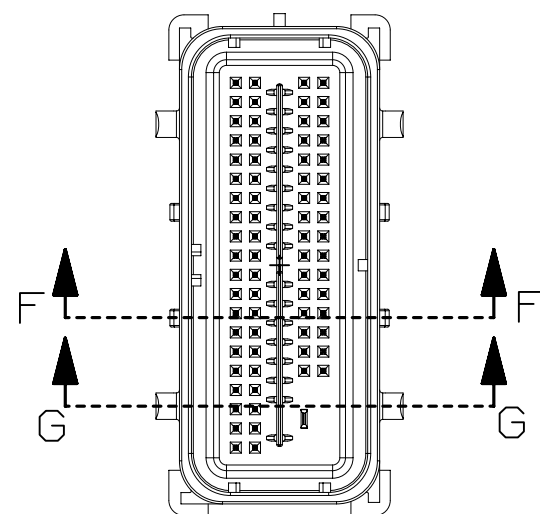


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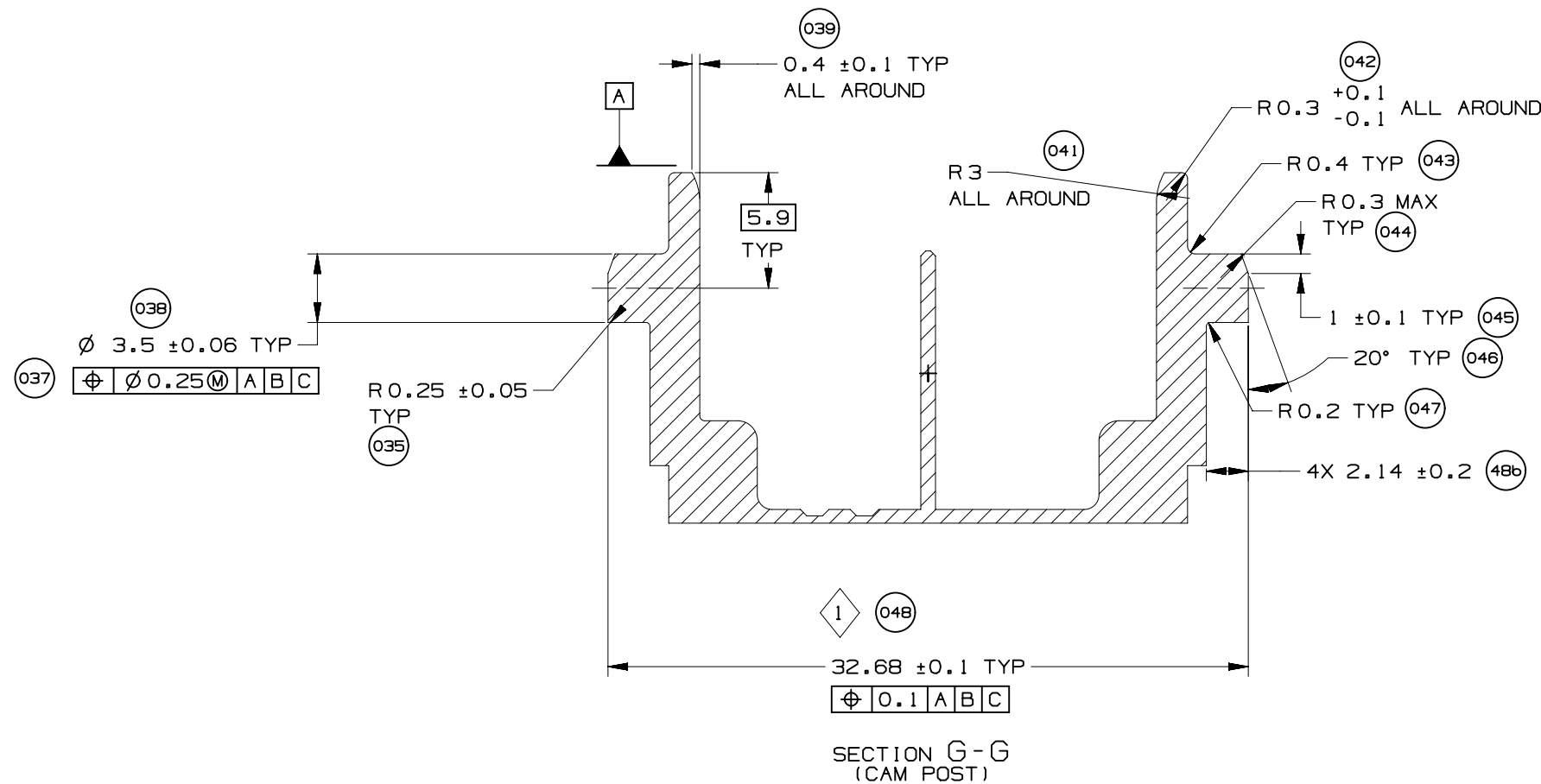
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SECTION F-F



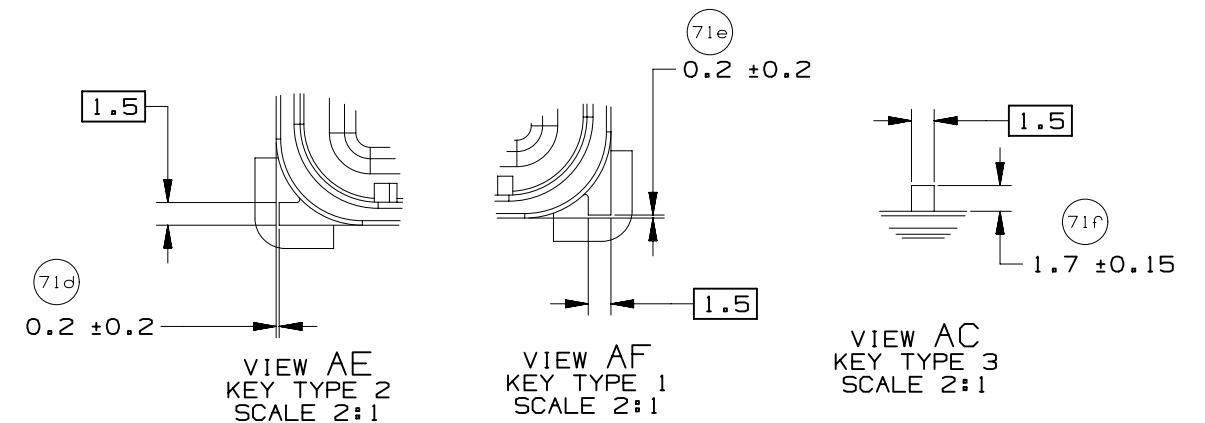
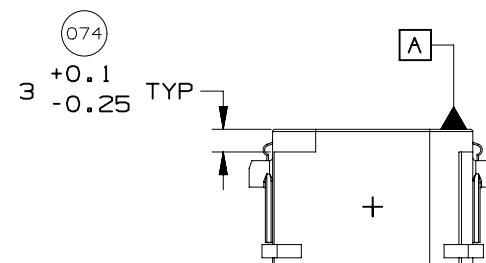
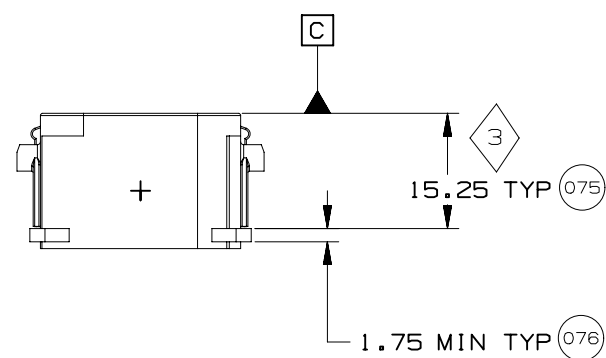
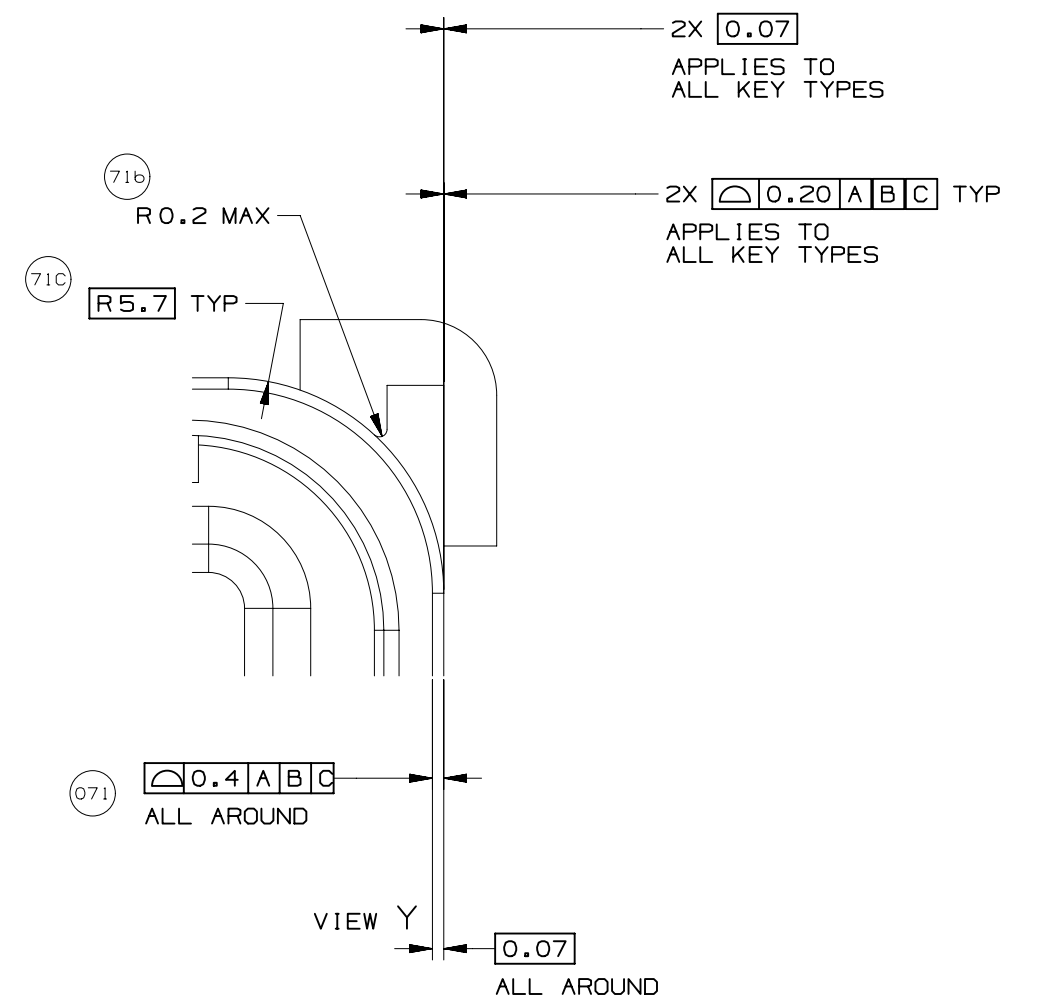
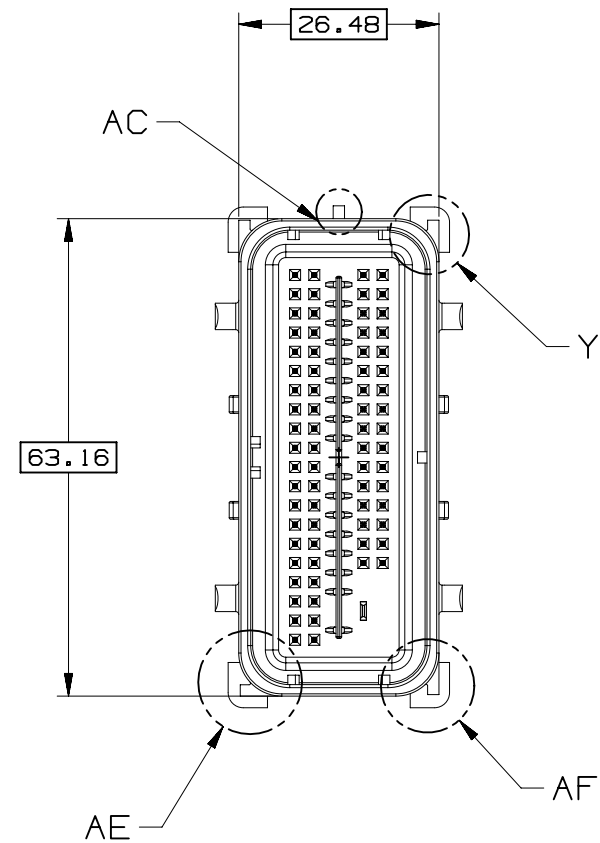
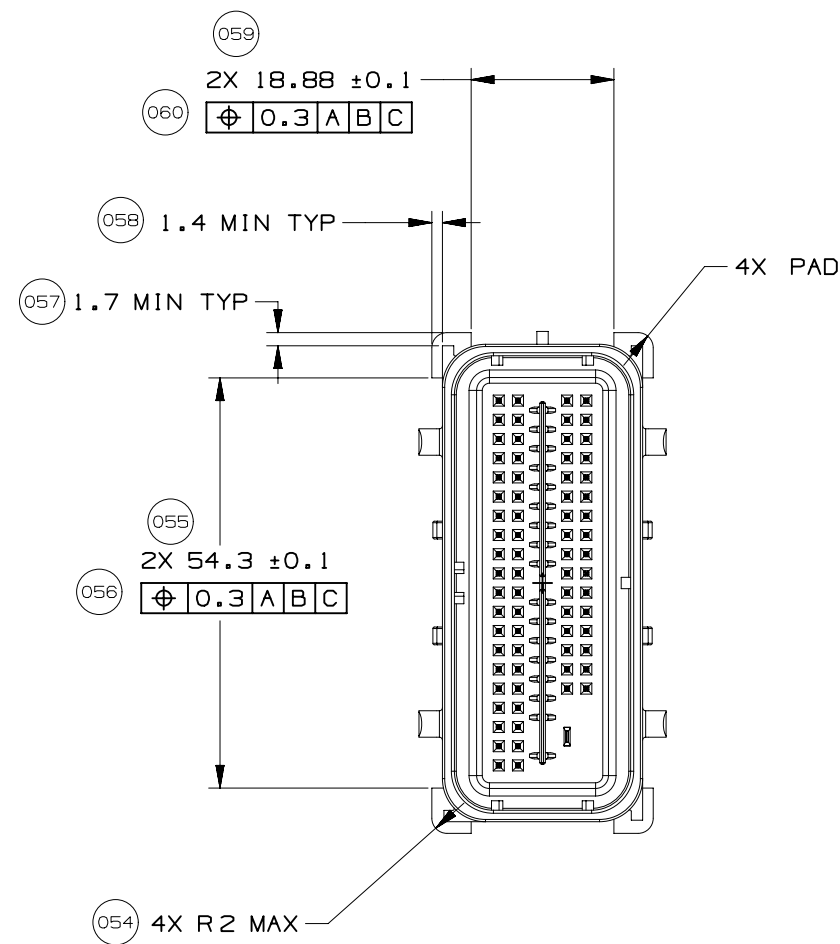
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(CAM POST)



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12642695

DWG STATUS			PAGE NUMBER	
ST	REV	PD1	16	OF 21
R	002			

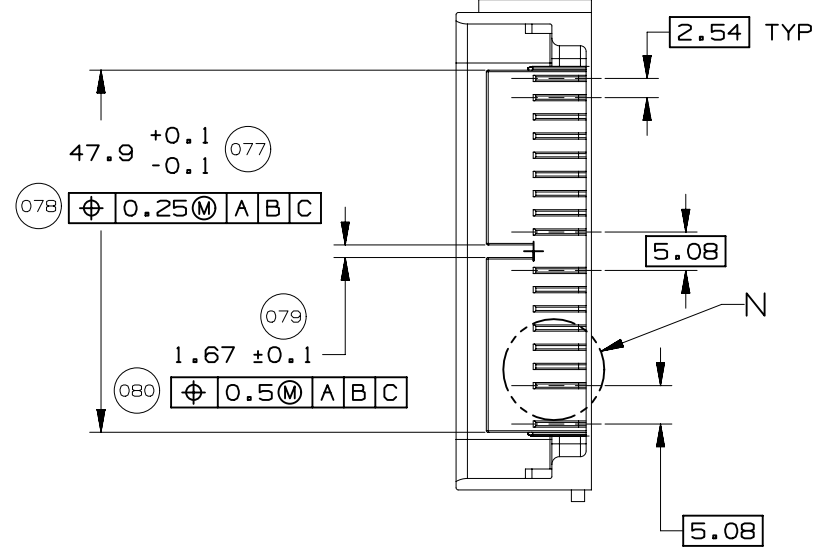
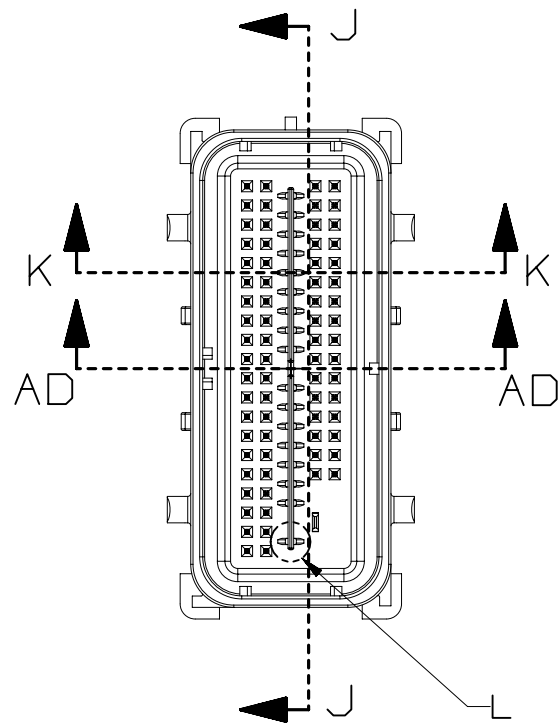


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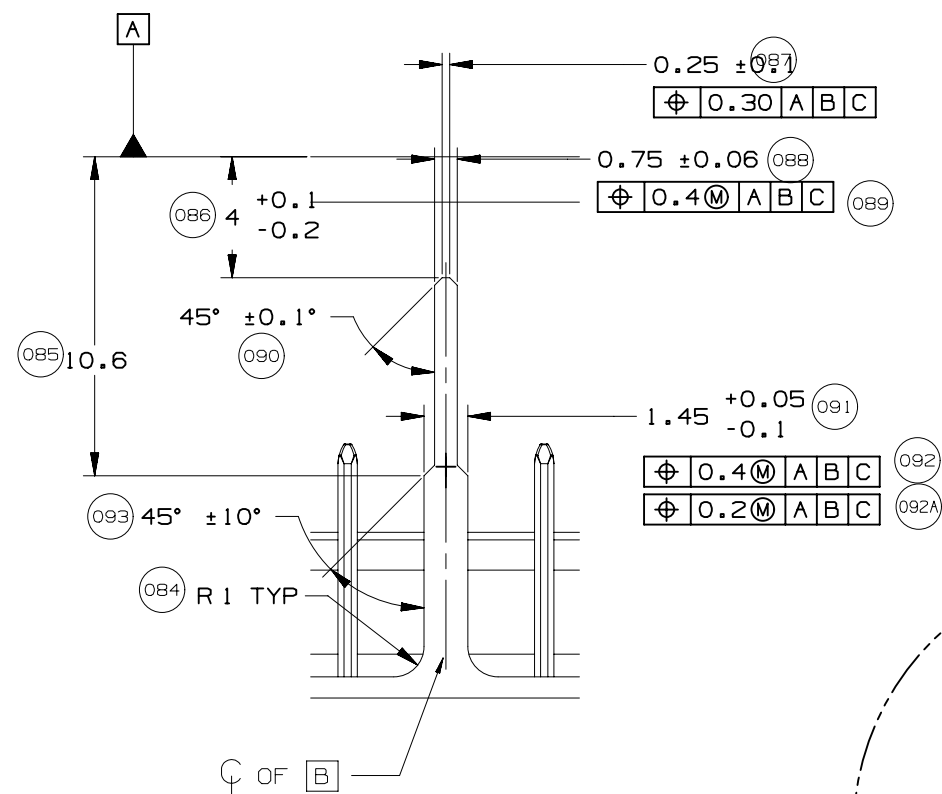
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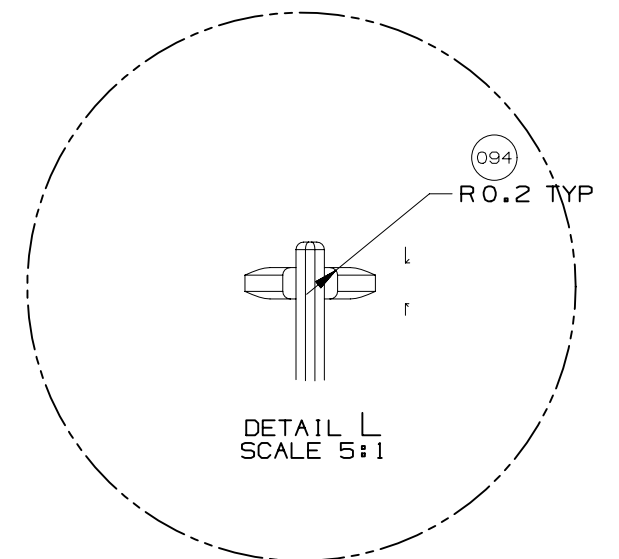
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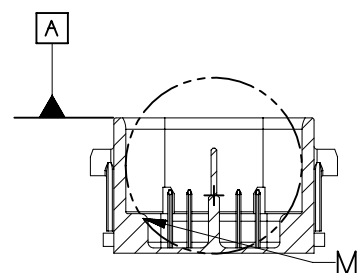
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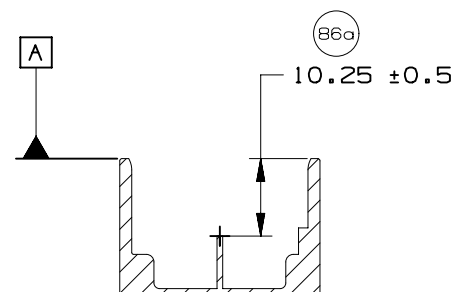
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TYPICAL
SCALE 4:1



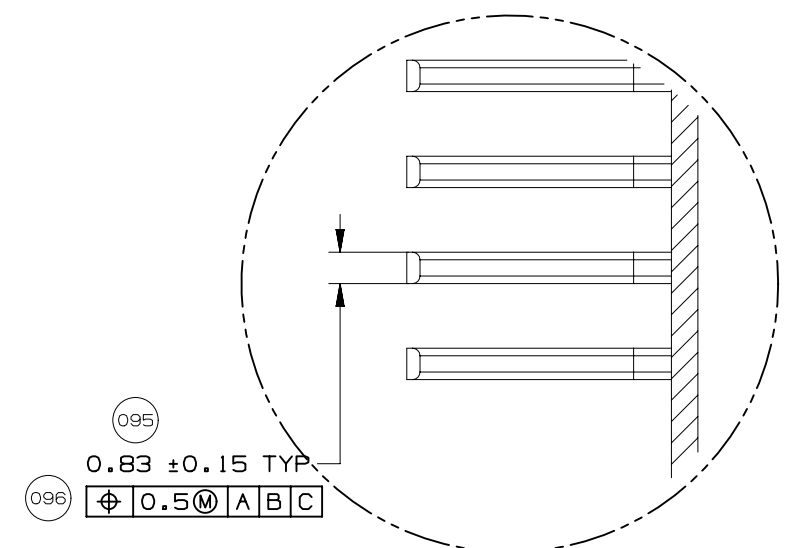
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SECTION K-K



SECTION AD-AD



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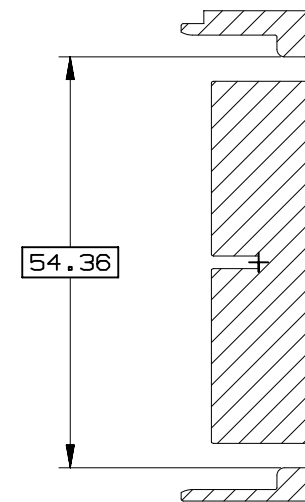
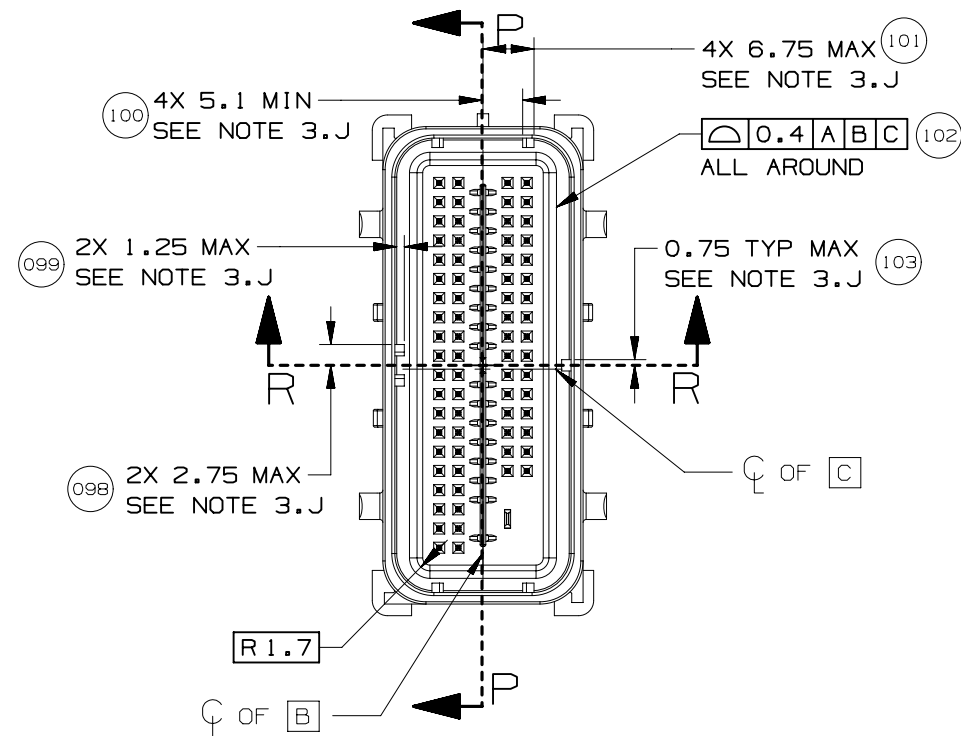


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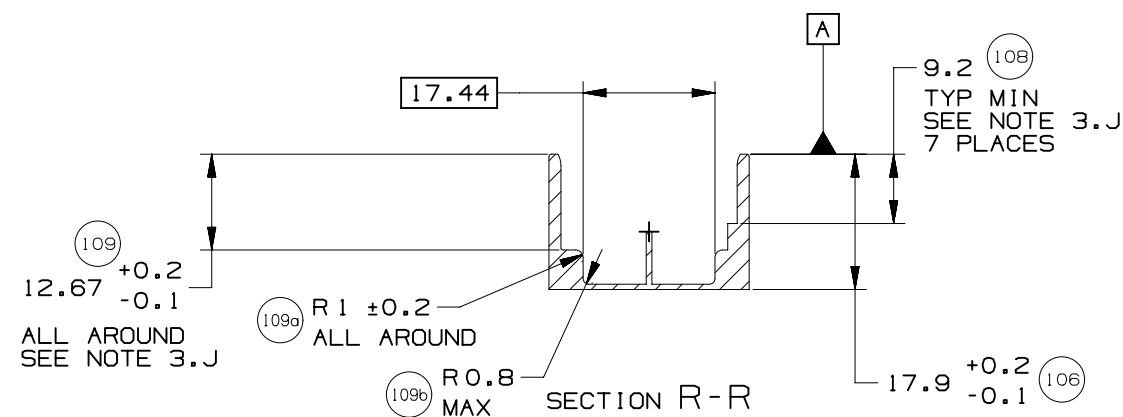
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R	002	

PAGE NUMBER
18 OF 21



SECTION P-P



SECTION R-R



PAGE TITLE

COMPONENT CONNECTOR INTERFACE

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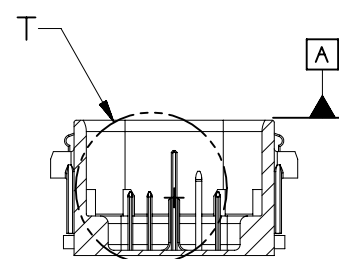
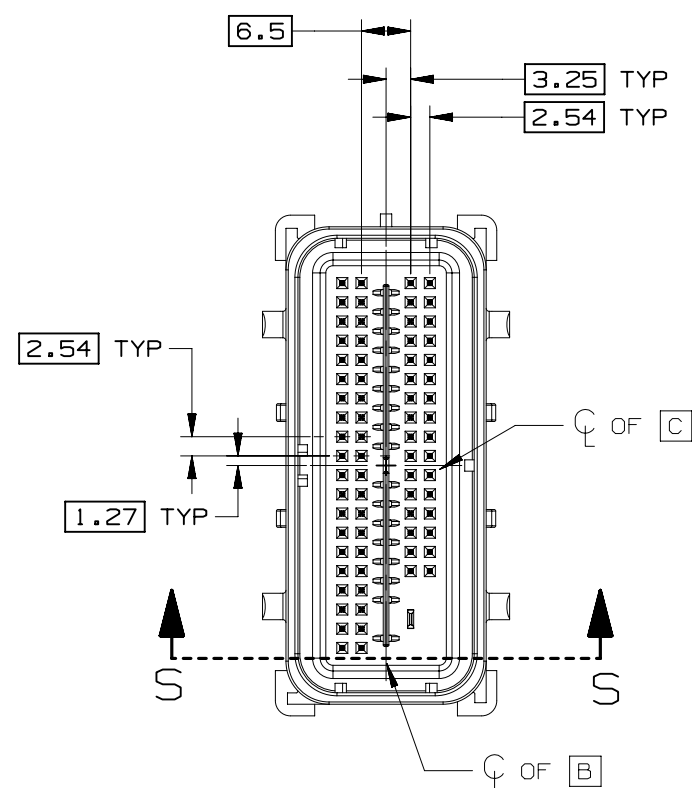
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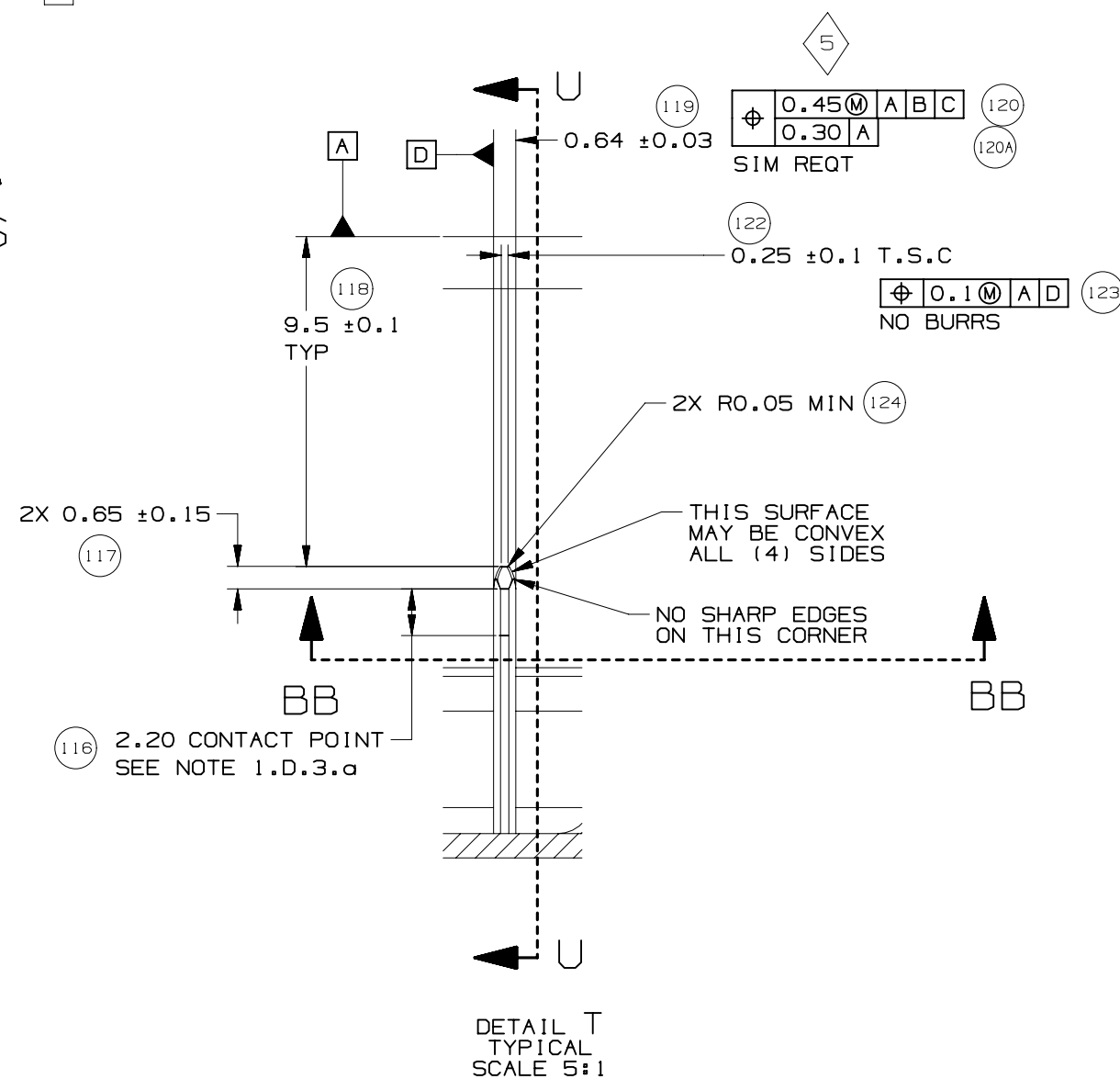
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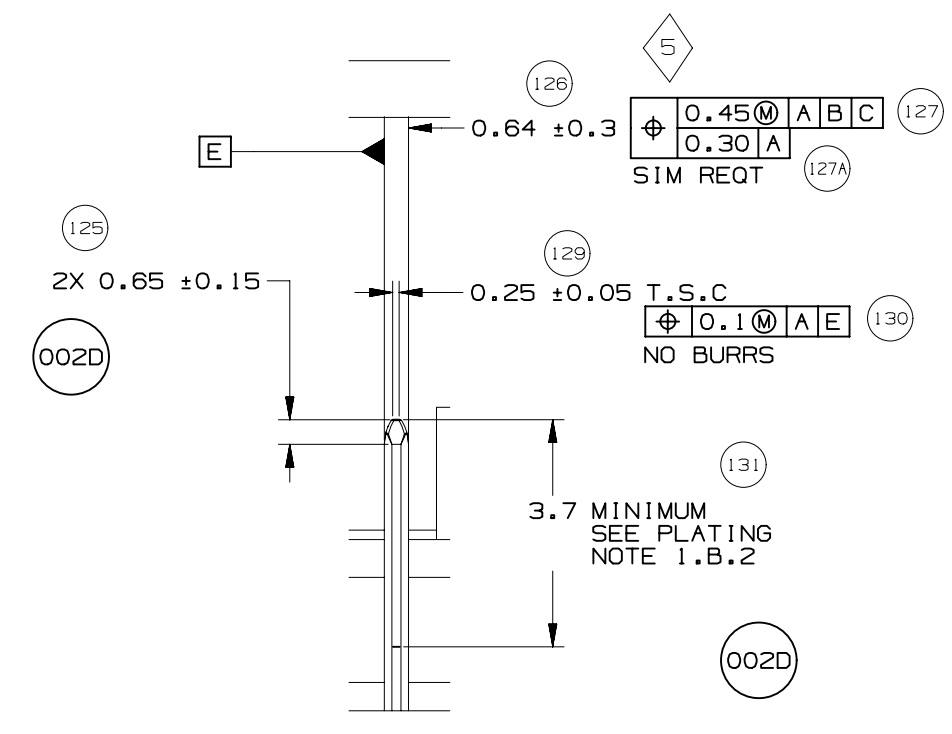
19 OF 21



SECTION S-S

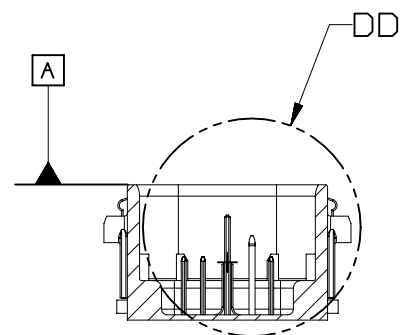
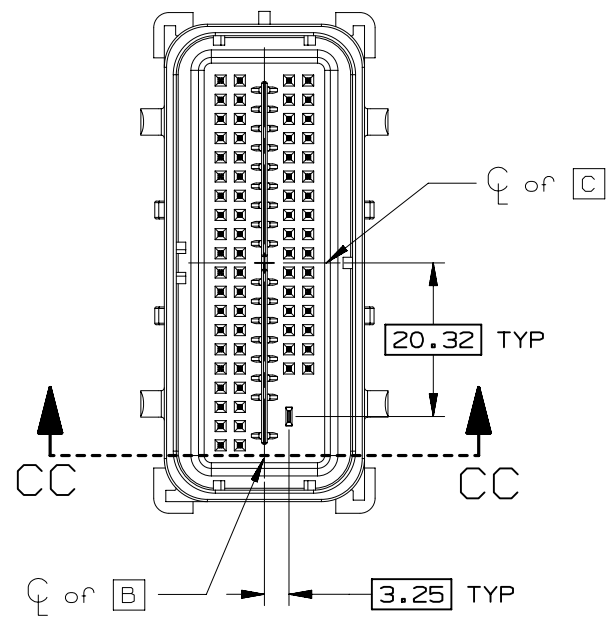


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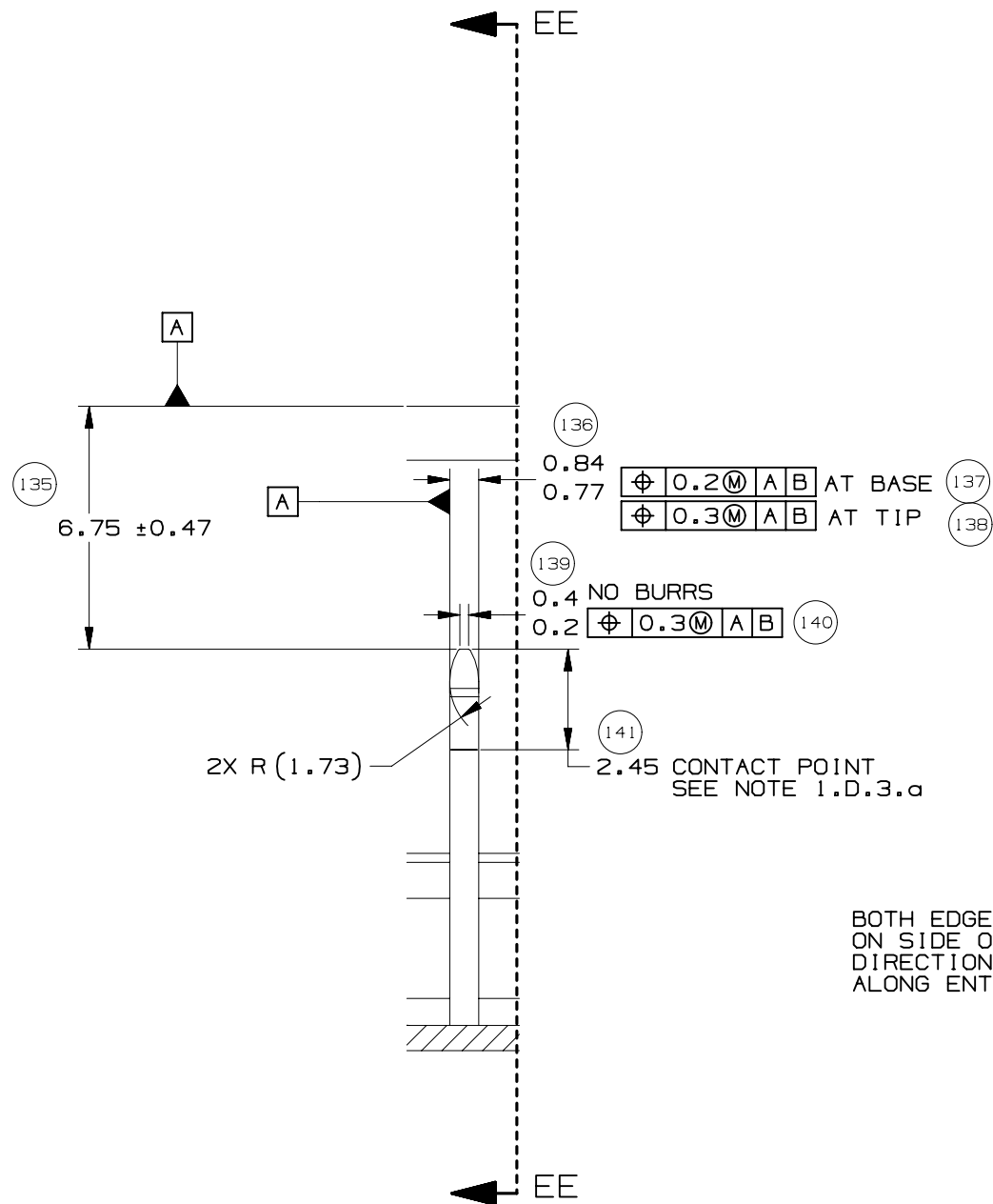


SECTION U-U





SECTION CC-CC



DETAIL DD
TYPICAL
SCALE 5:1

BOTH EDGES COINED
ON SIDE OPPOSITE
DIRECTION OF PUNCH
ALONG ENTIRE LENGTH

SECTION EE-EE
TYPICAL



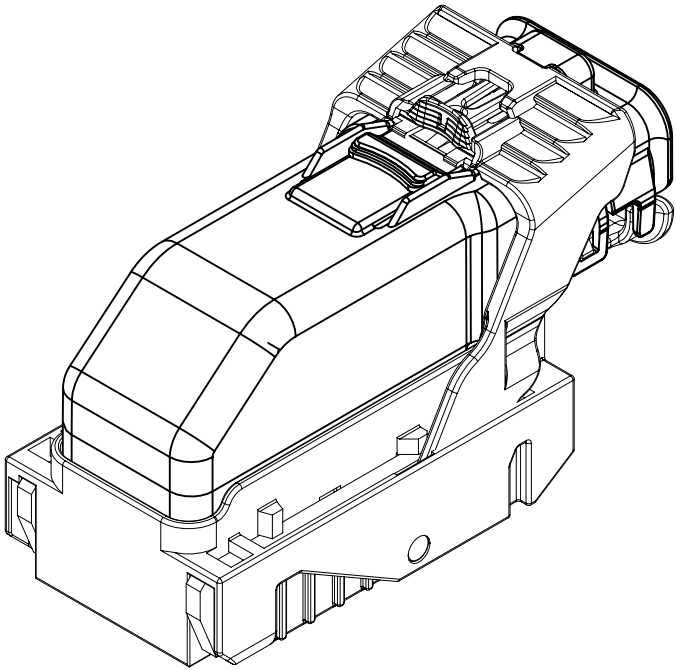
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ISO VIEW

GM		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								
UC CHANGE RESTRICTED NO MANUAL CHANGES		DO NOT SCALE		APVD5				
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRAWING NAME						
		HARNESS CONN ASM-SEALED 52/66/73/80 CKTS,MX123						
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PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG		PAGE	DWG STATUS					REVISION HISTORY	AUTH	DR	CK	ENG		
	DATE	ST	REV	CHG	PDI								DATE	ST	REV	CHG	PDI							
	05JN15	R	001			RELEASED TO PRODUCTION AT DLS A	CRMRJE	DFK																
								PAGE TITLE REVISION BLOCK								DRAWING NUMBER 12672833				DWG STATUS ST REV PDI R 001			PAGE NUMBER 2 OF 22	

				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 12672833		DWG STATUS <table><tr><td>ST</td><td>REV</td><td>PDI</td></tr><tr><td>R</td><td>001</td><td></td></tr></table>		ST	REV	PDI	R	001		PAGE NUMBER 4 OF 22	
ST	REV	PDI															
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

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.

GM	PAGE TITLE NOTES		DRAWING NUMBER 12672833	DWG STATUS			PAGE NUMBER 6 OF 22
				ST	REV	PDI	
				R	001		

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

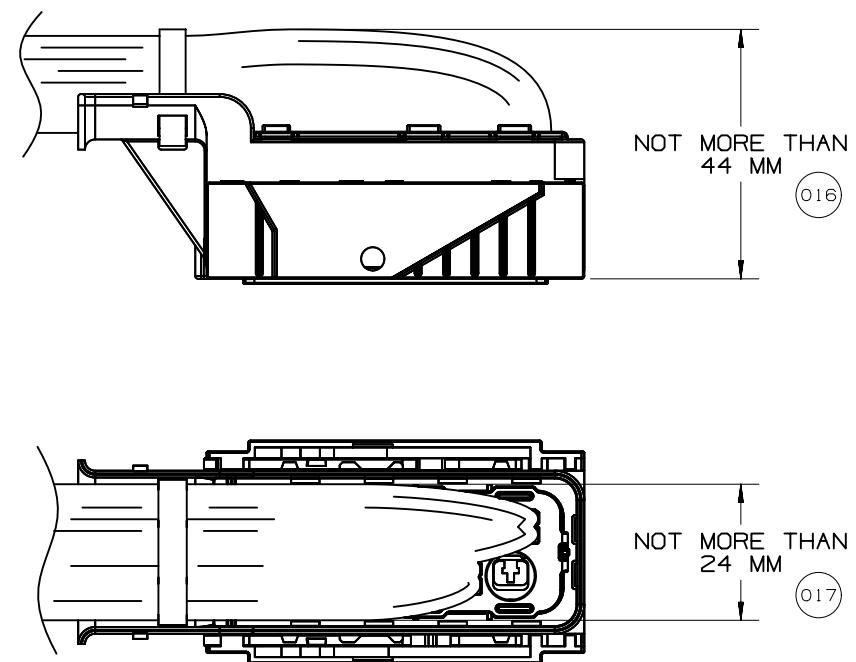
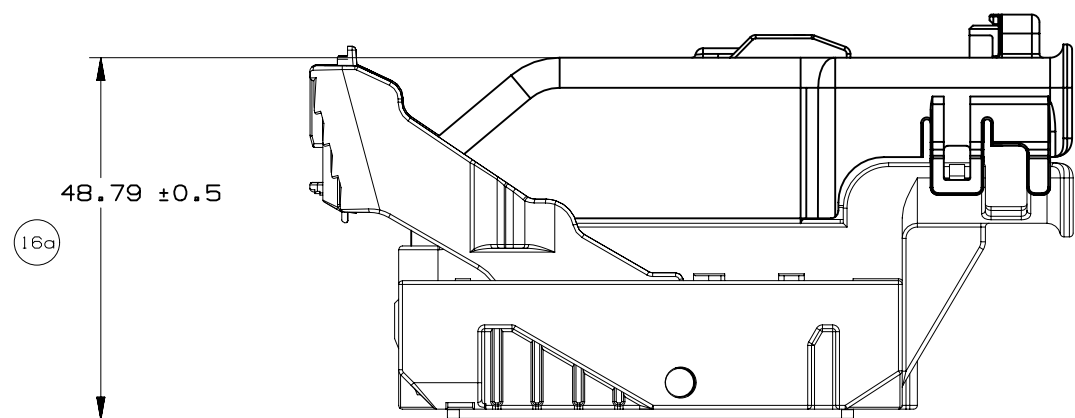
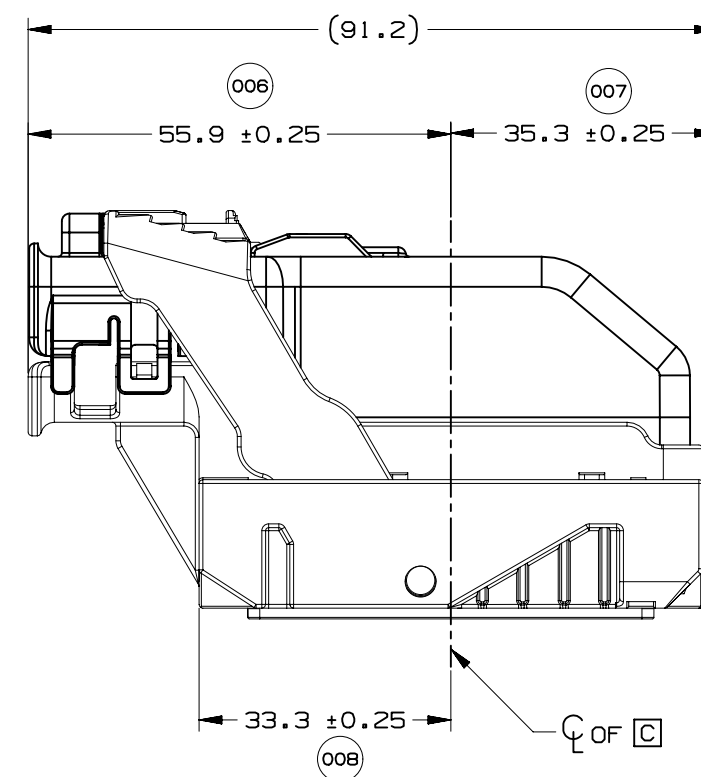
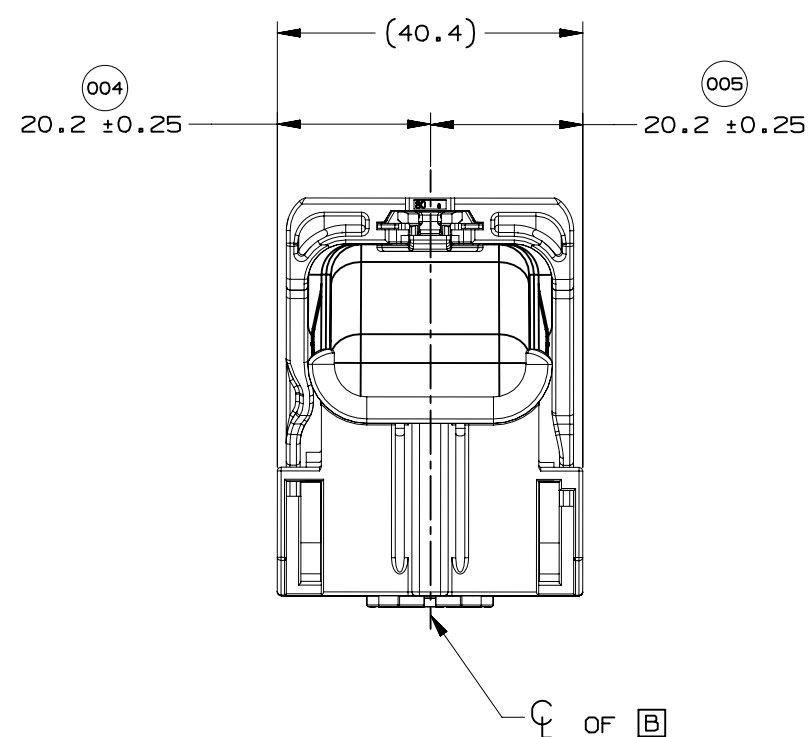
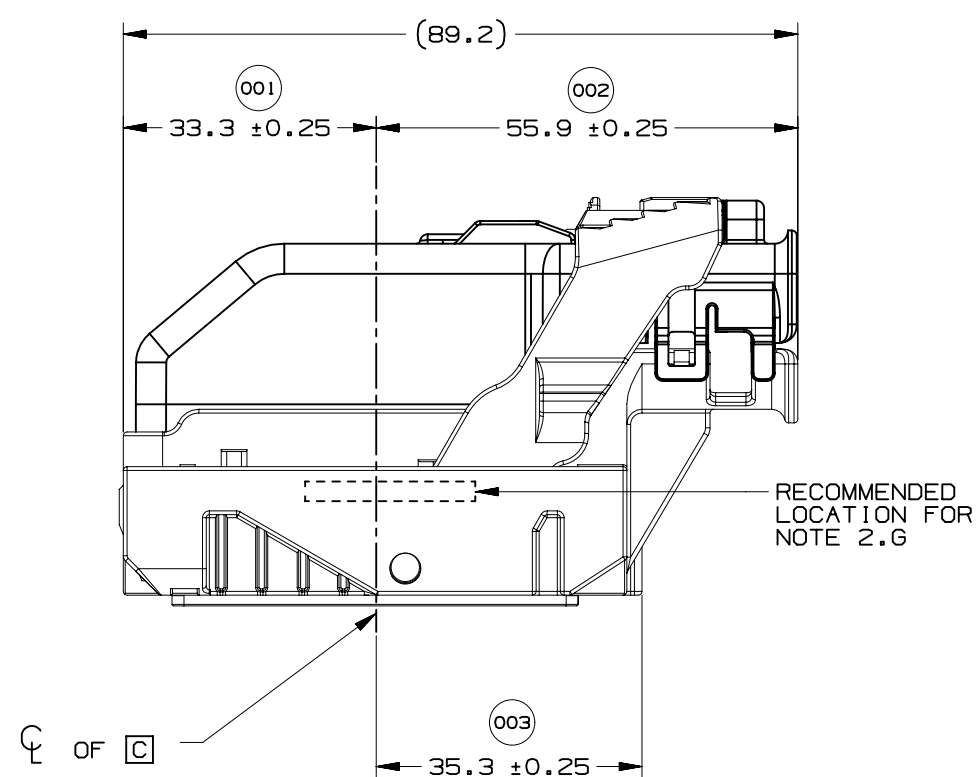
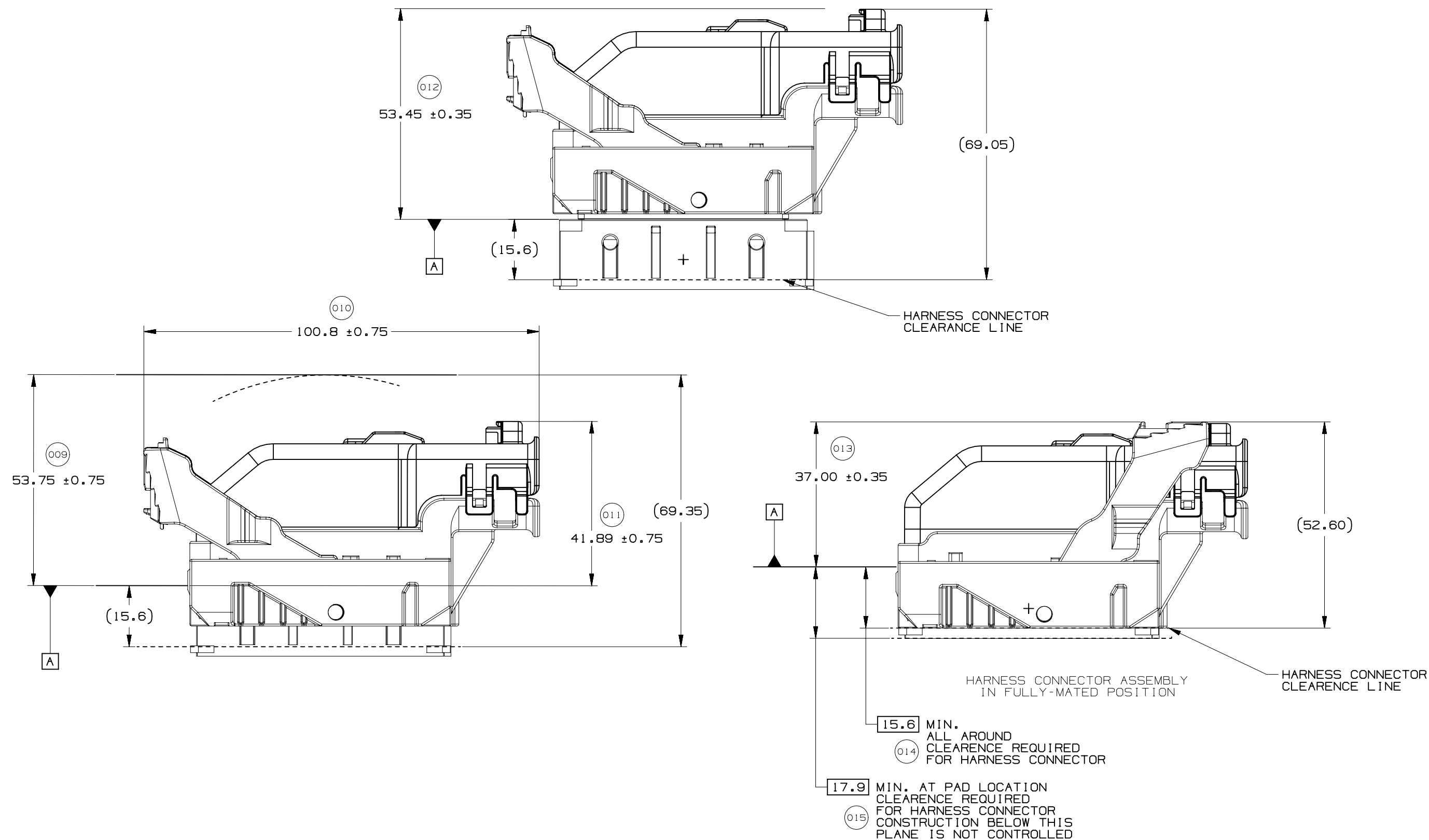


Fig. 1







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LOCATION AND PACKAGING DIMENSIONS
REFERENCING INTERFACE DATUM A

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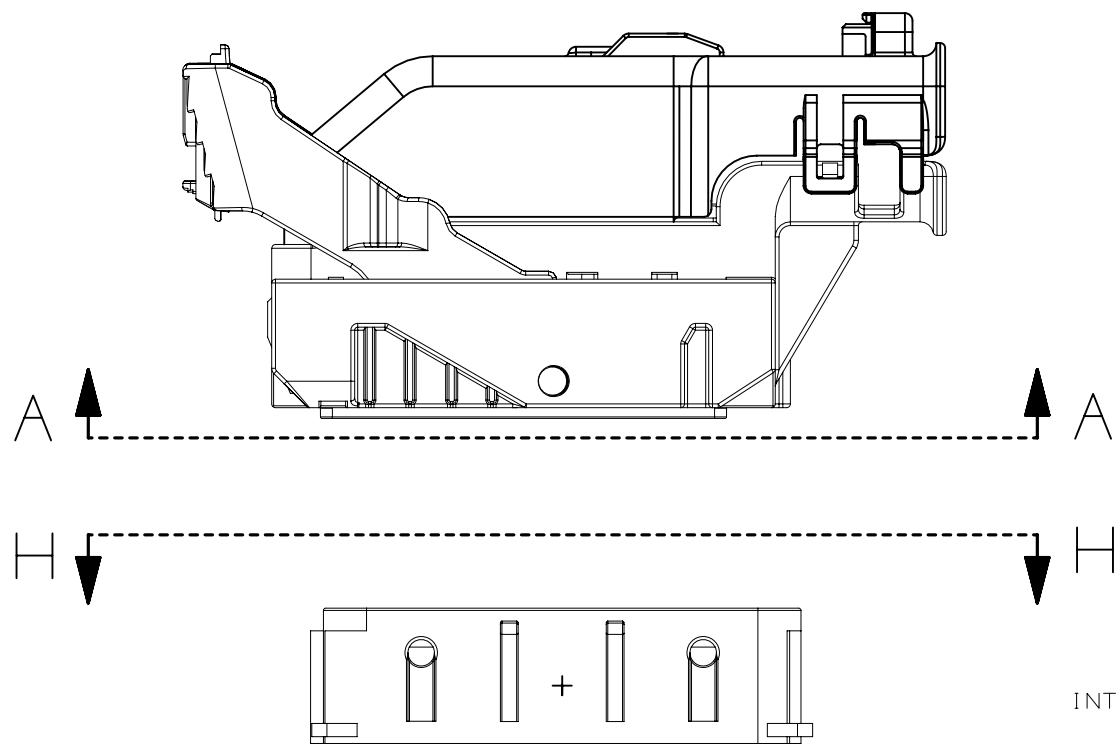
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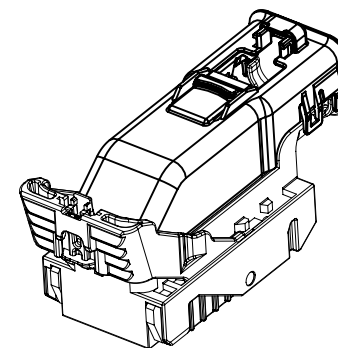
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PAGE NUMBER

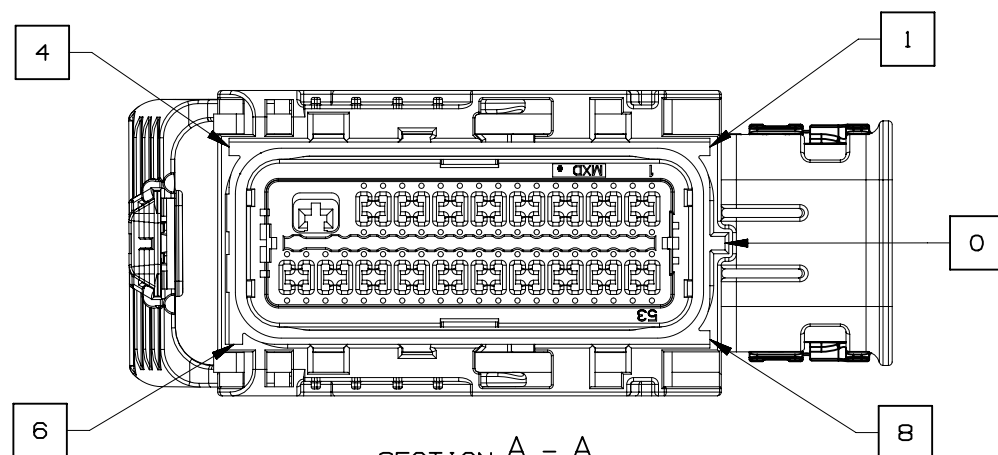
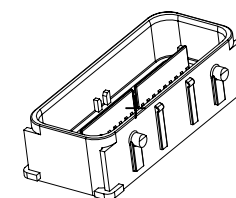
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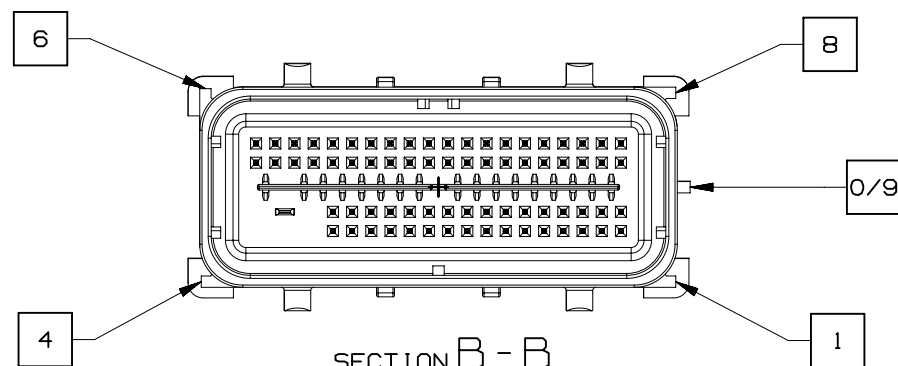
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



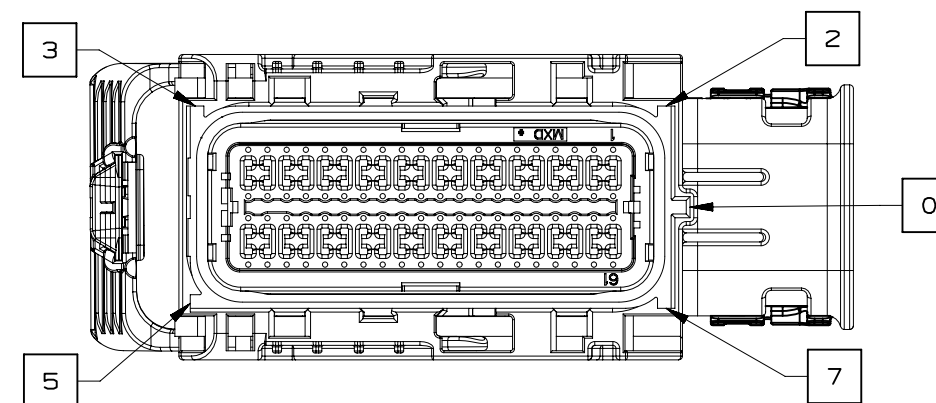
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



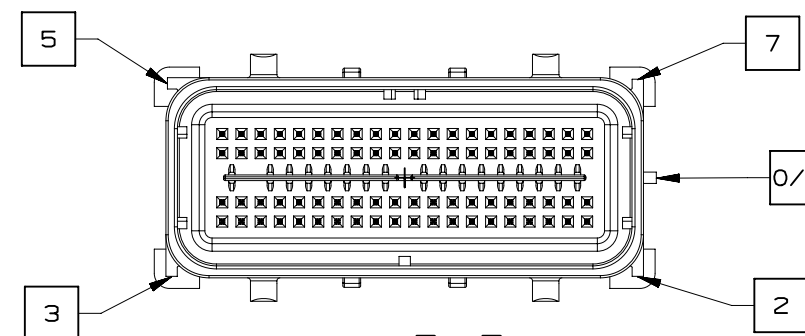
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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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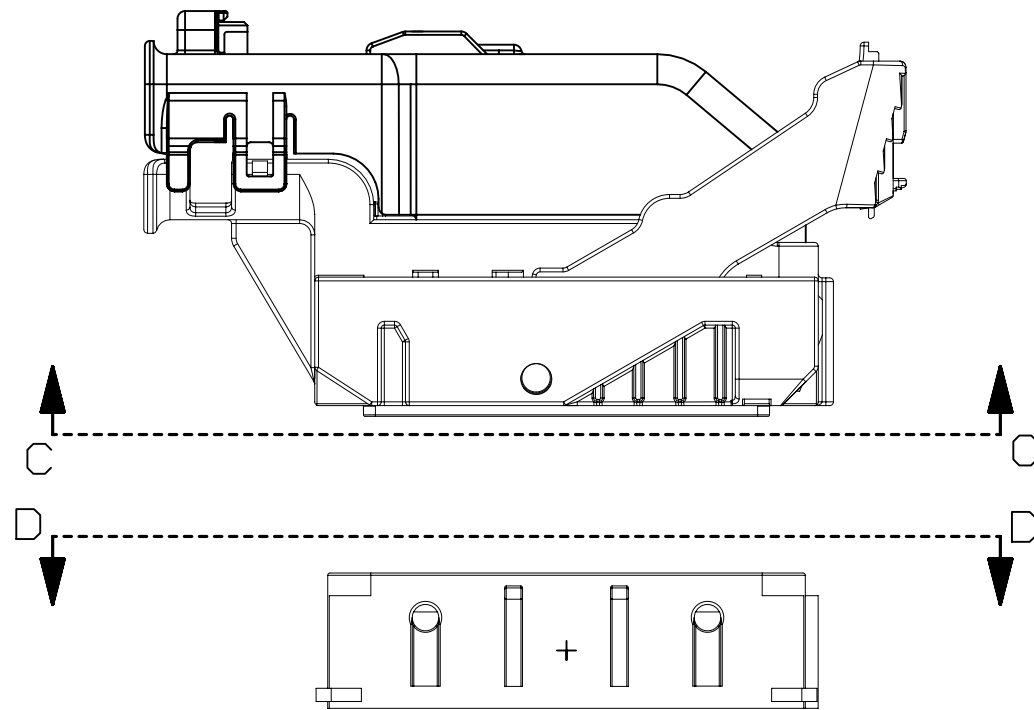
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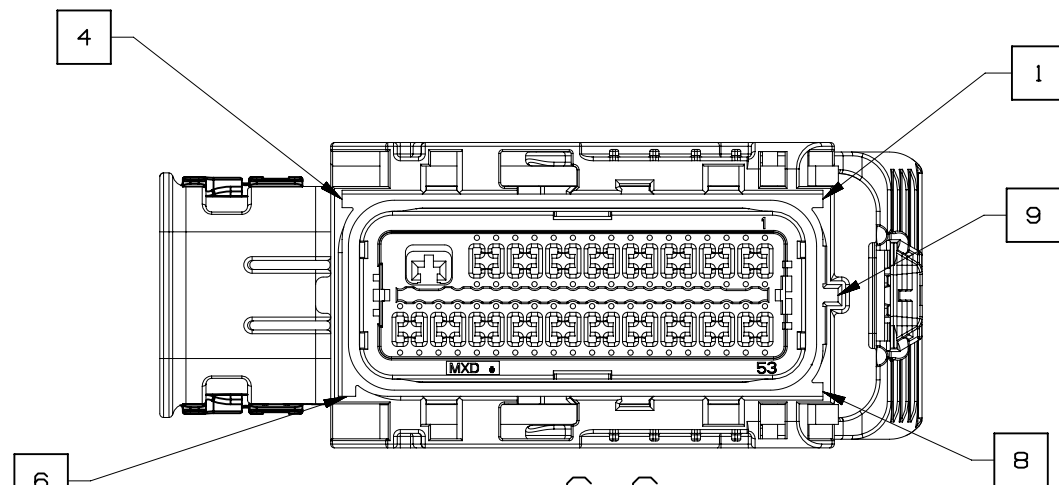
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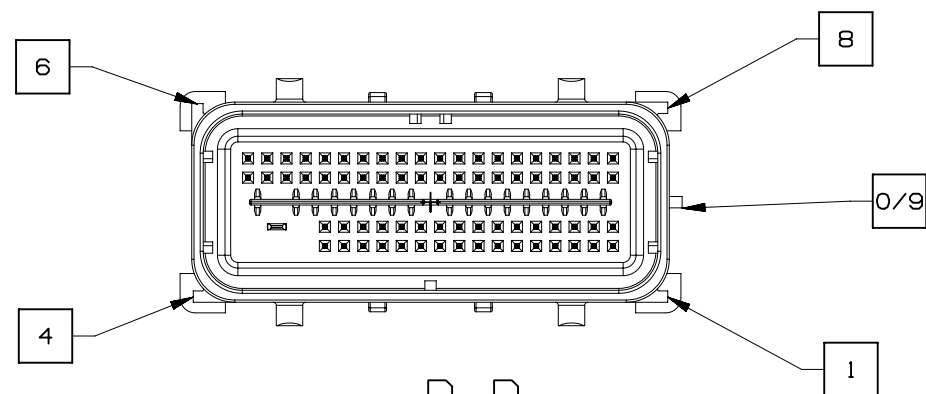
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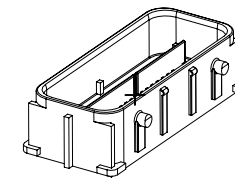
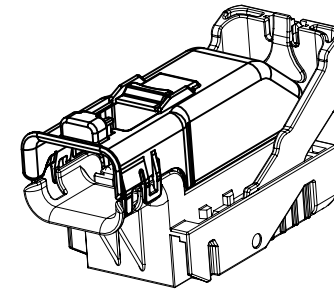
INTERFACE SIDE SHOWN ON ALL SECTION VIEWS



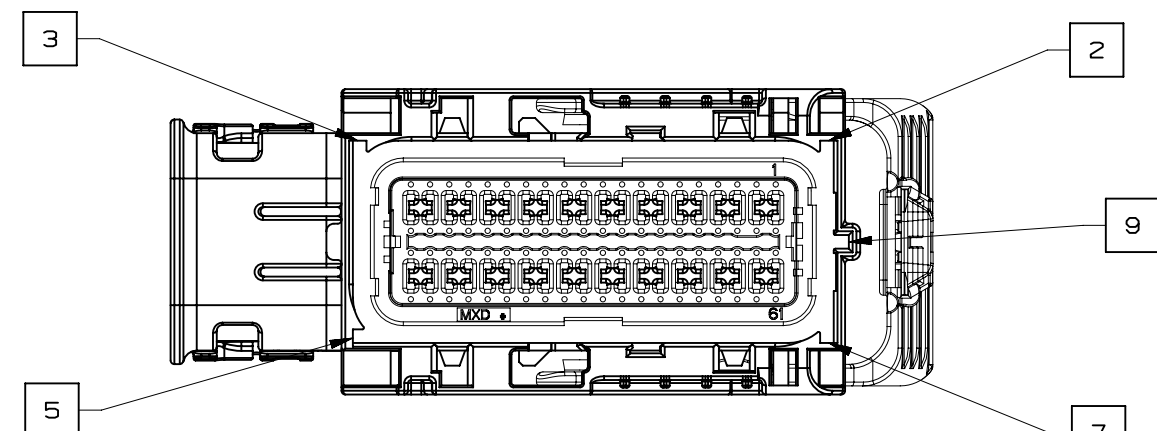
SECTION C - C
73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



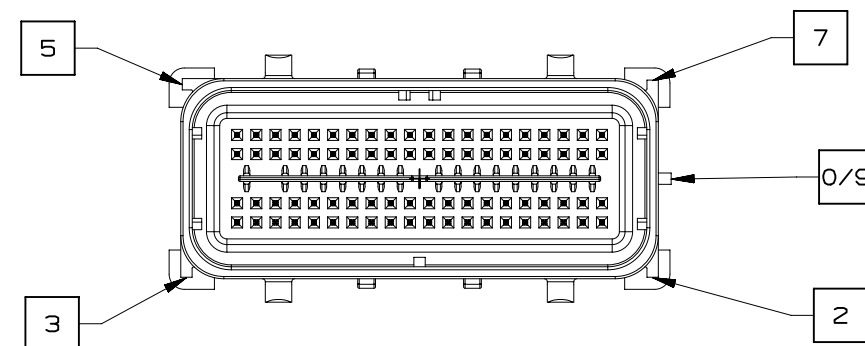
SECTION D - D
73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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

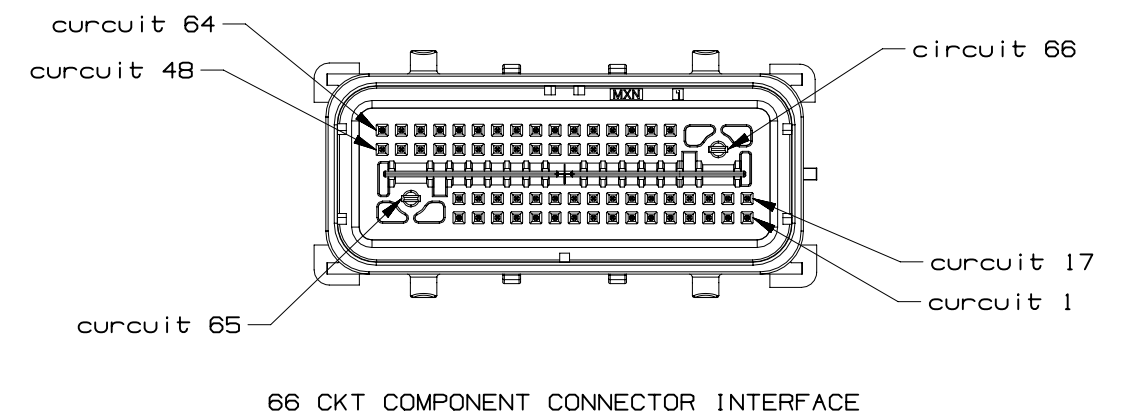
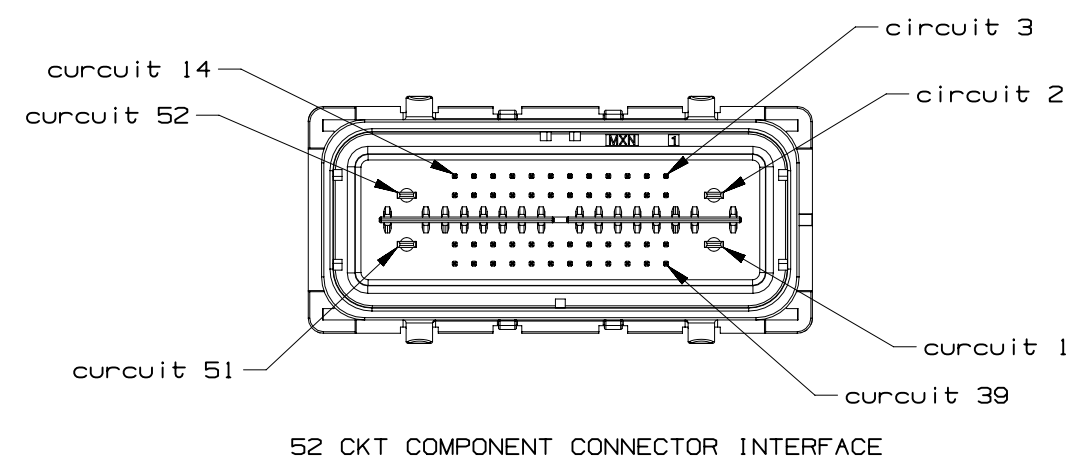
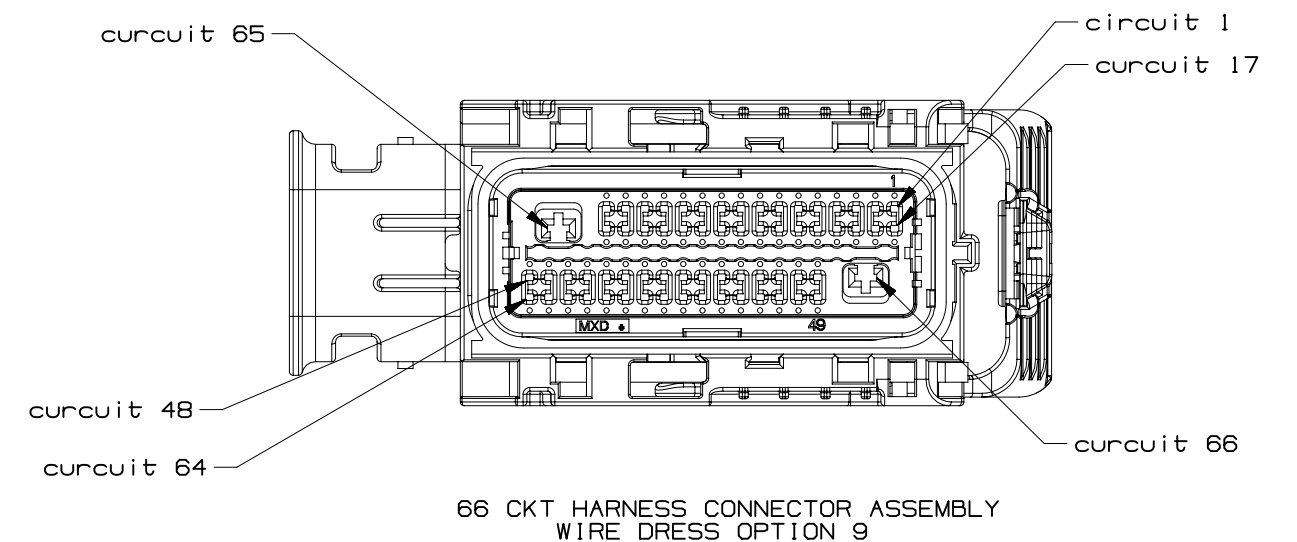
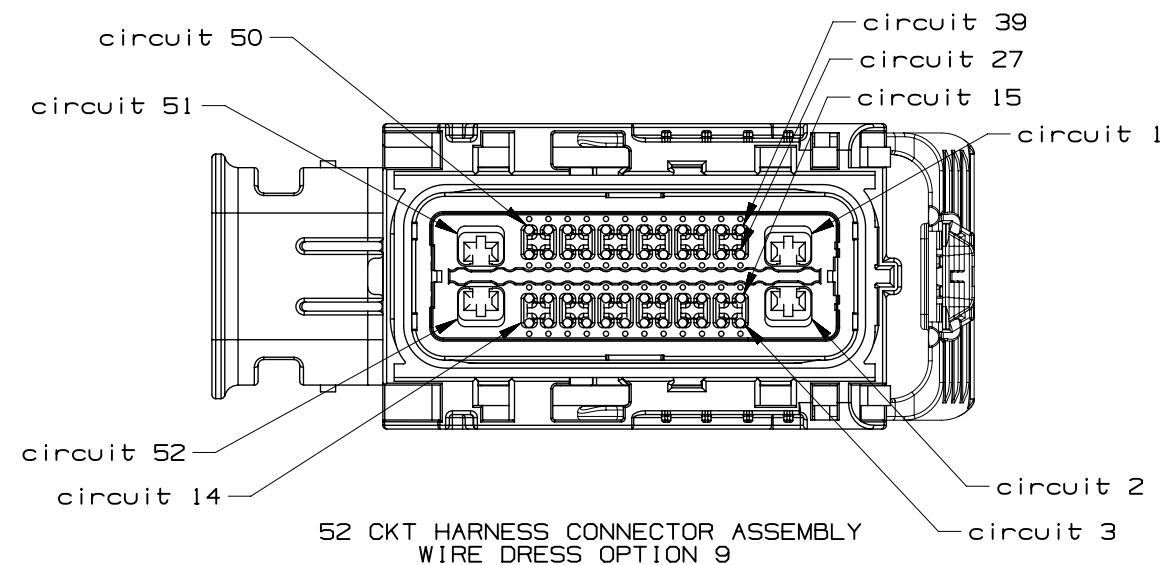
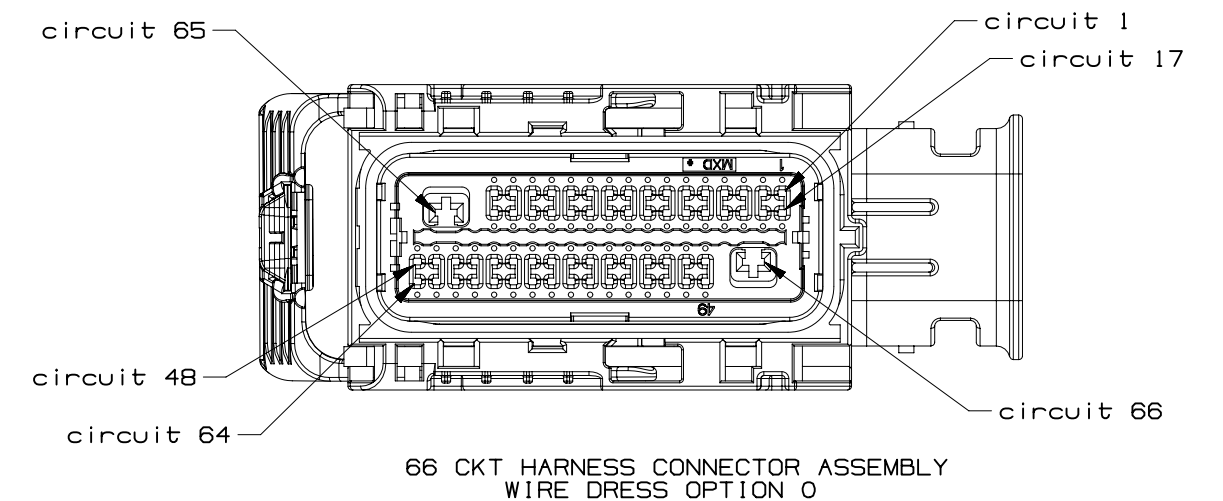
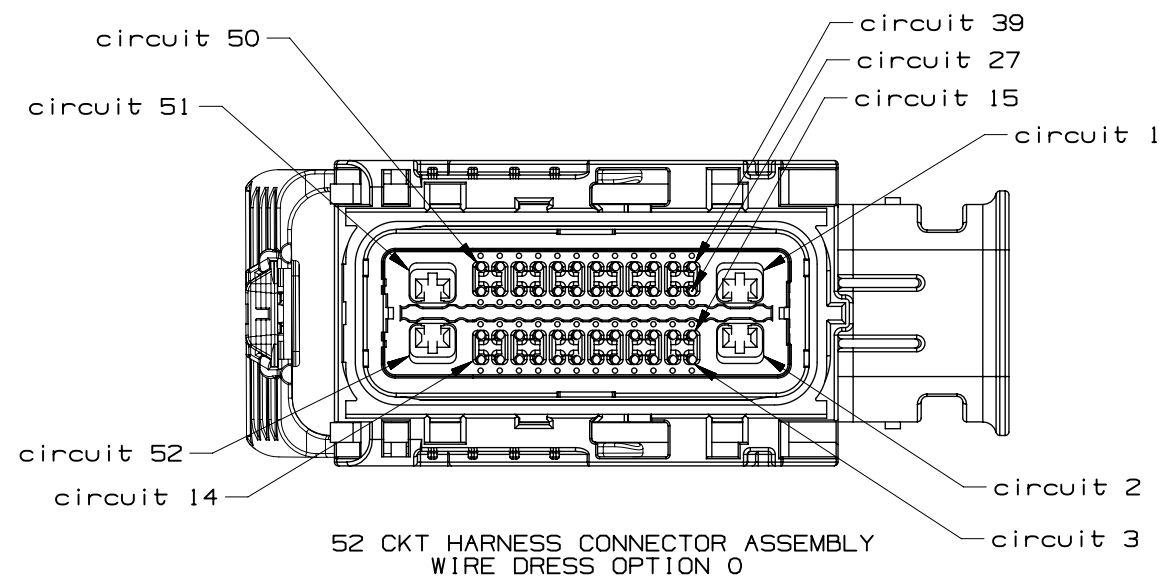


PAGE TITLE
KEY ID REF - WIRE DRESS OPTION 9

DRAWING NUMBER
12672833

DWG STATUS		
ST	REV	PD1
R	001	

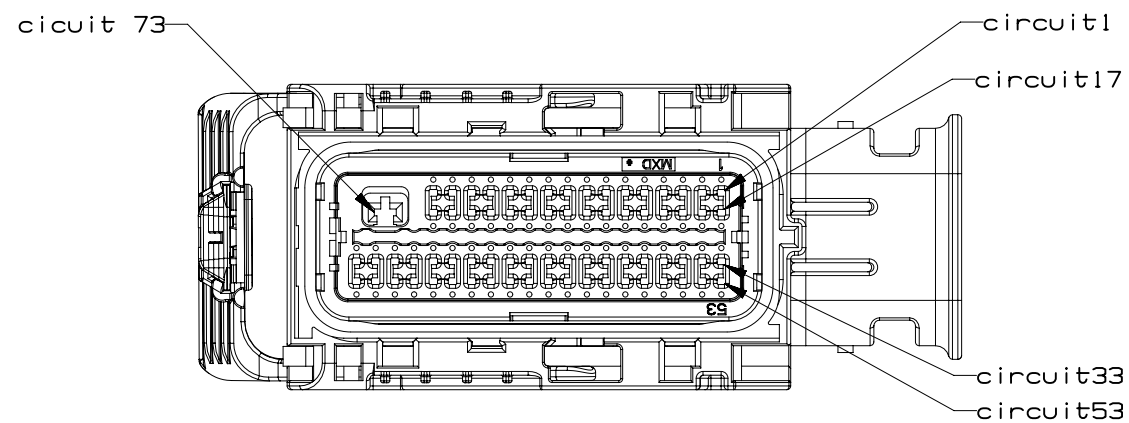
PAGE NUMBER
12 OF 22



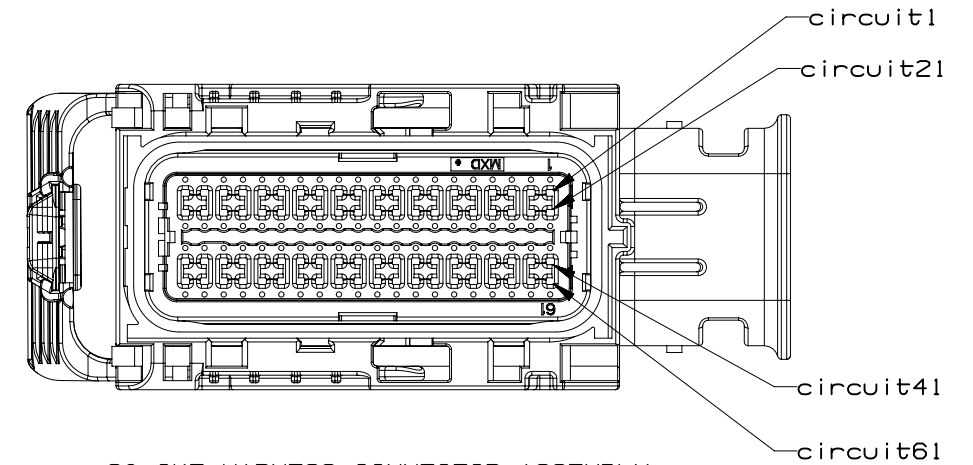
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CIRCUIT CONFIGURATIONS

DRAWING NUMBER
12672833

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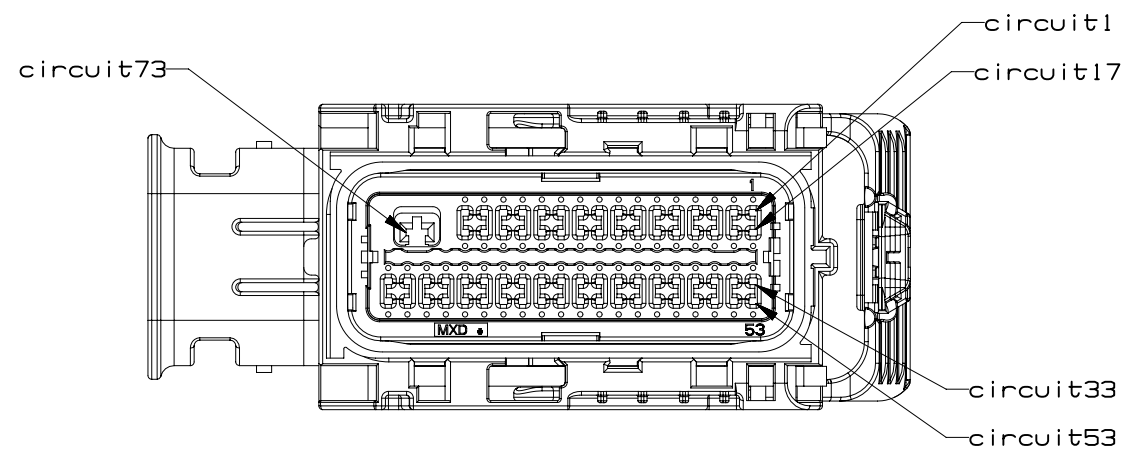


73 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

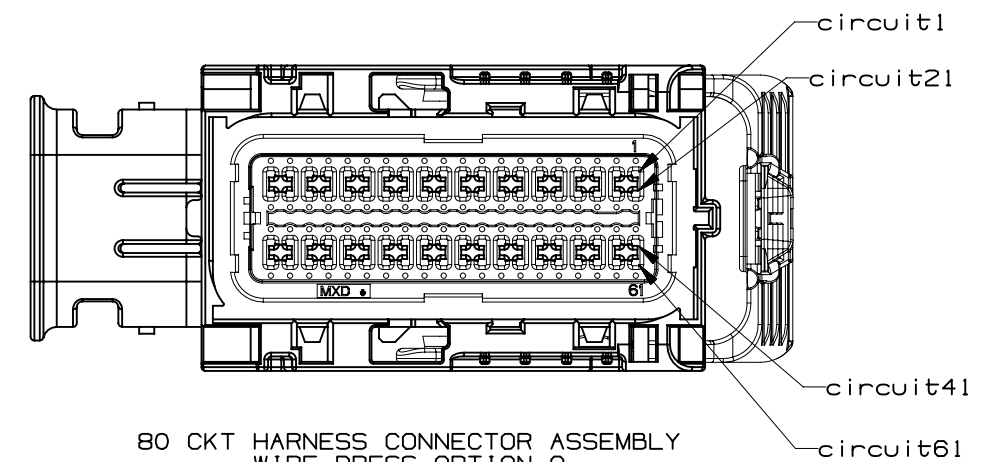


80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

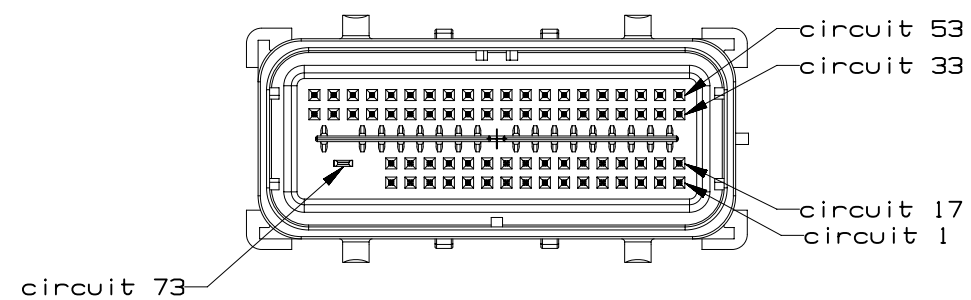
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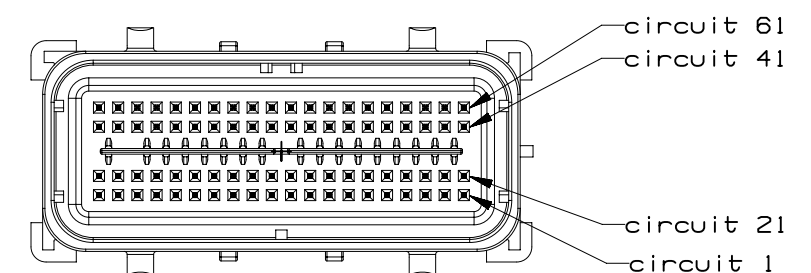
73 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

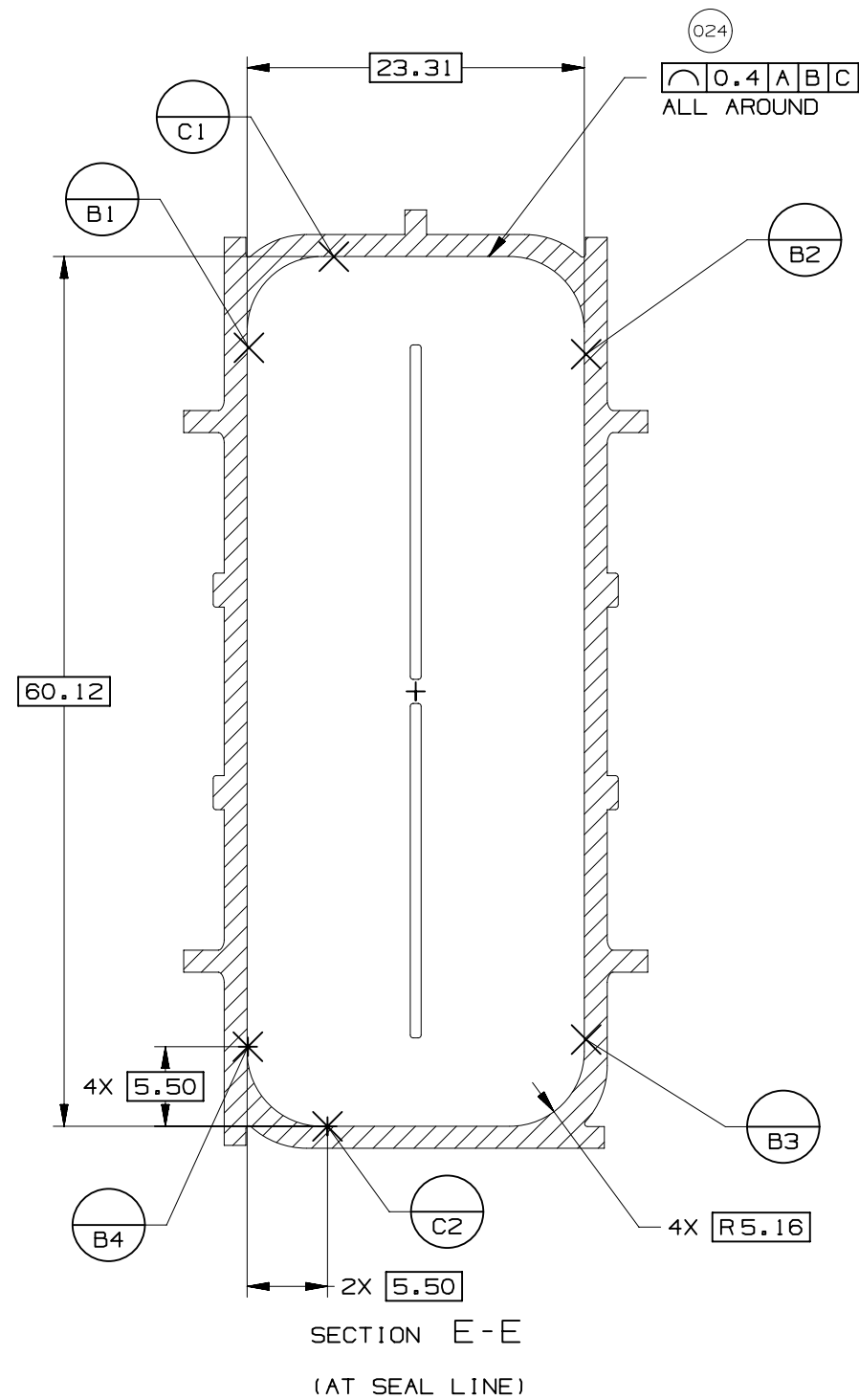
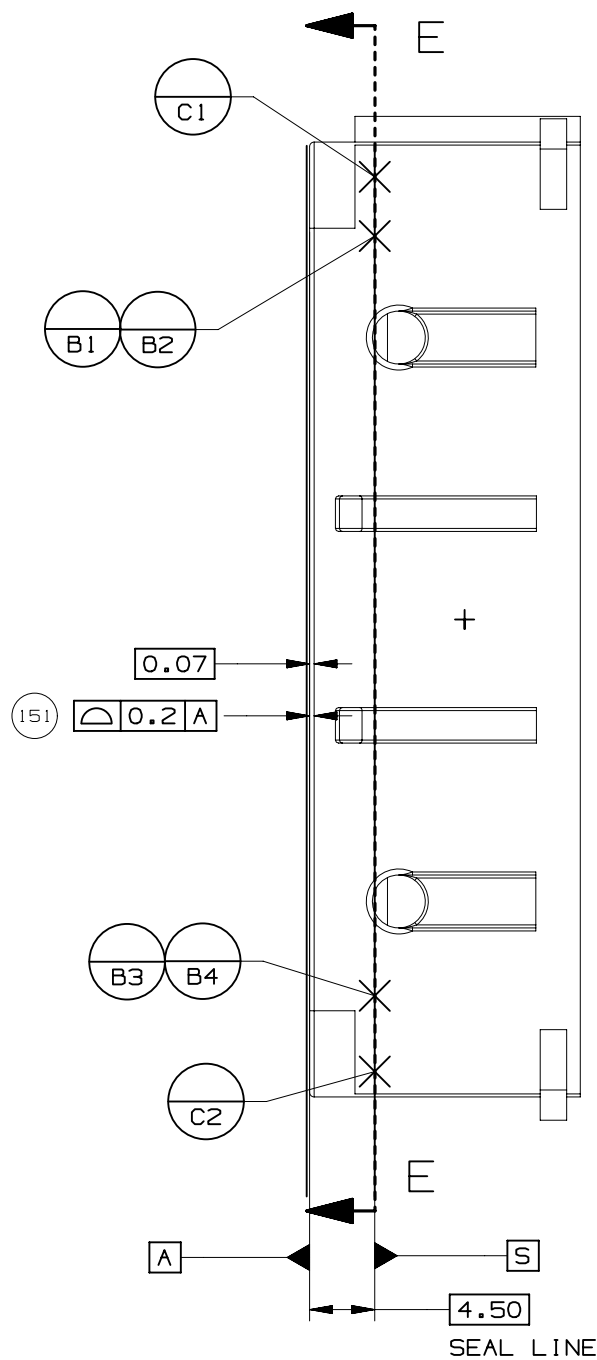
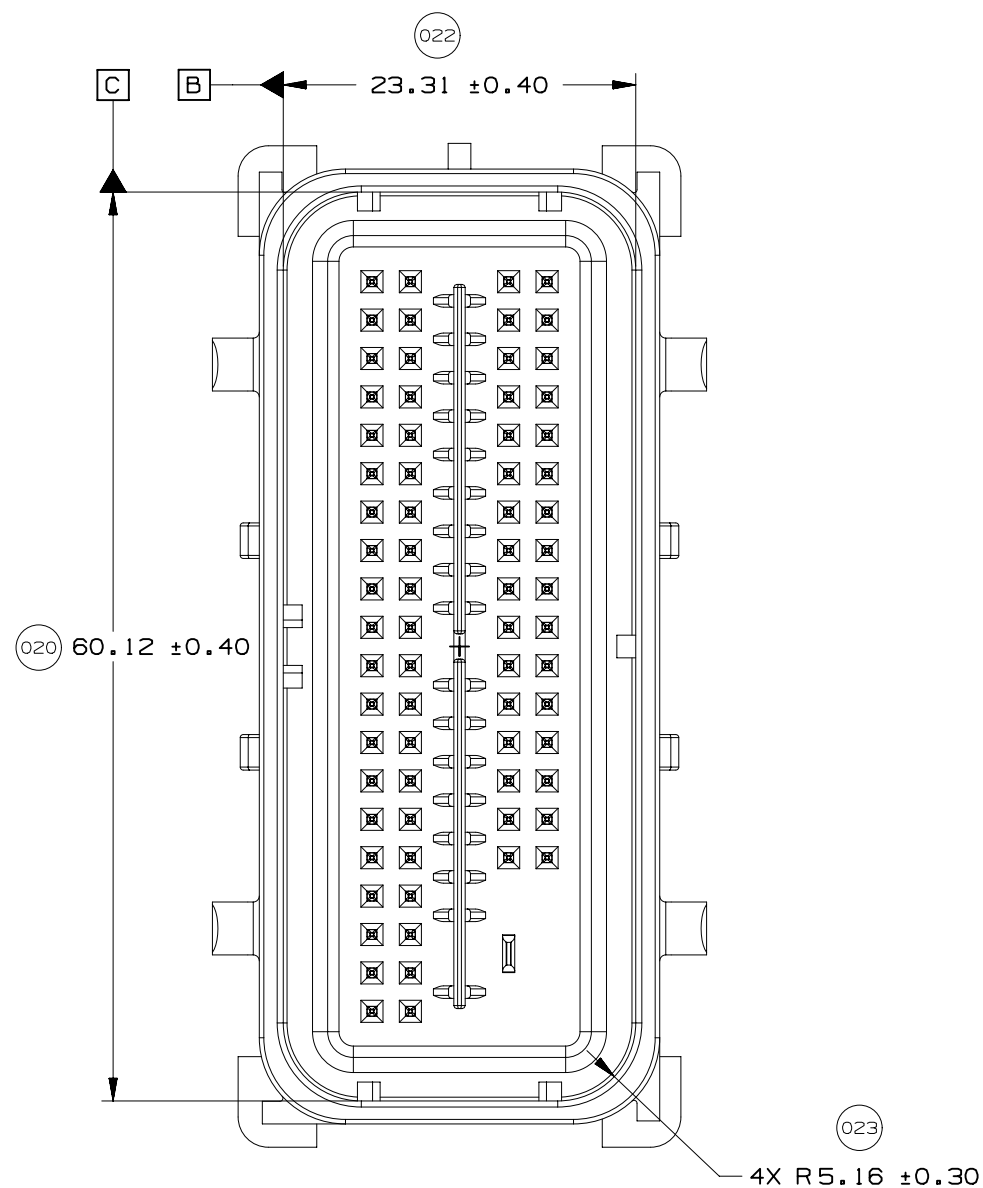
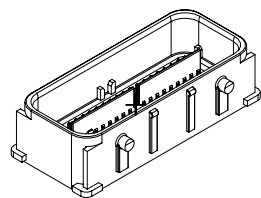


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE





UNLESS SPECIFIED, TOLERANCE OF THE COMPONENT CONNECTOR INTERFACE TO BE $\sqrt[0.13]{A B C}$

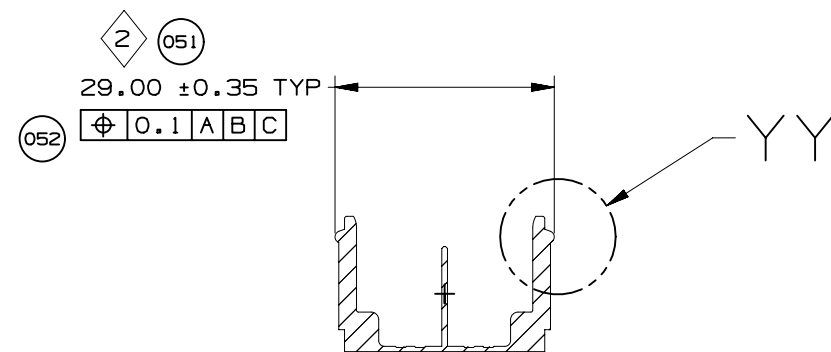
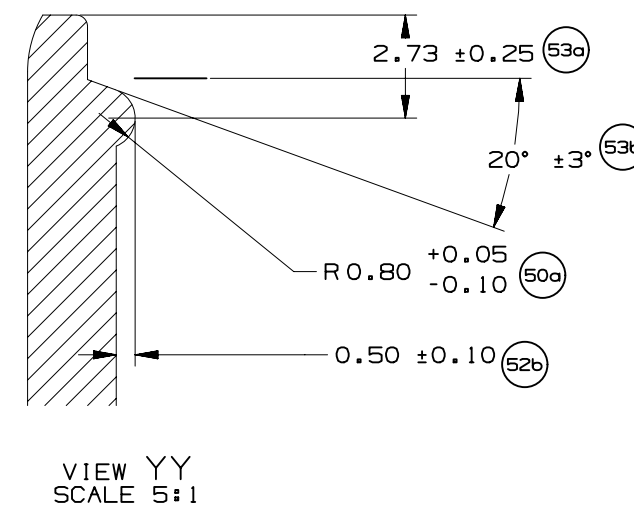
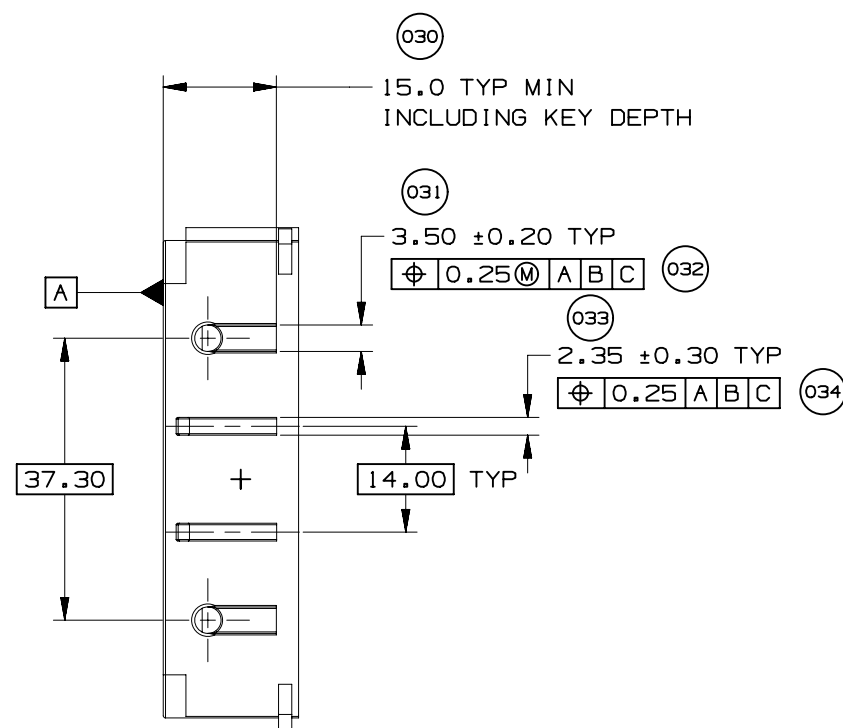
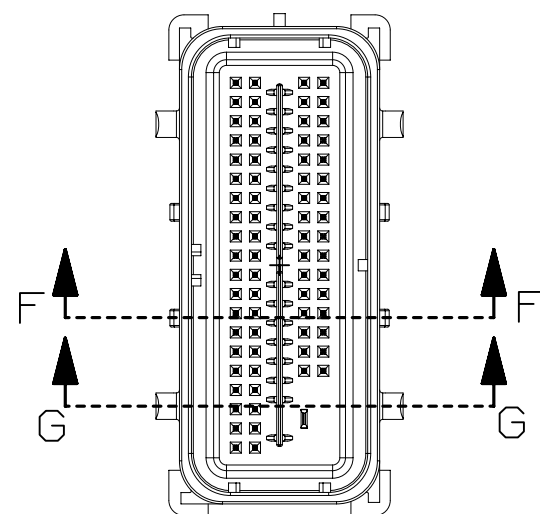


PAGE TITLE
COMPONENT CONNECTOR INTERFACE

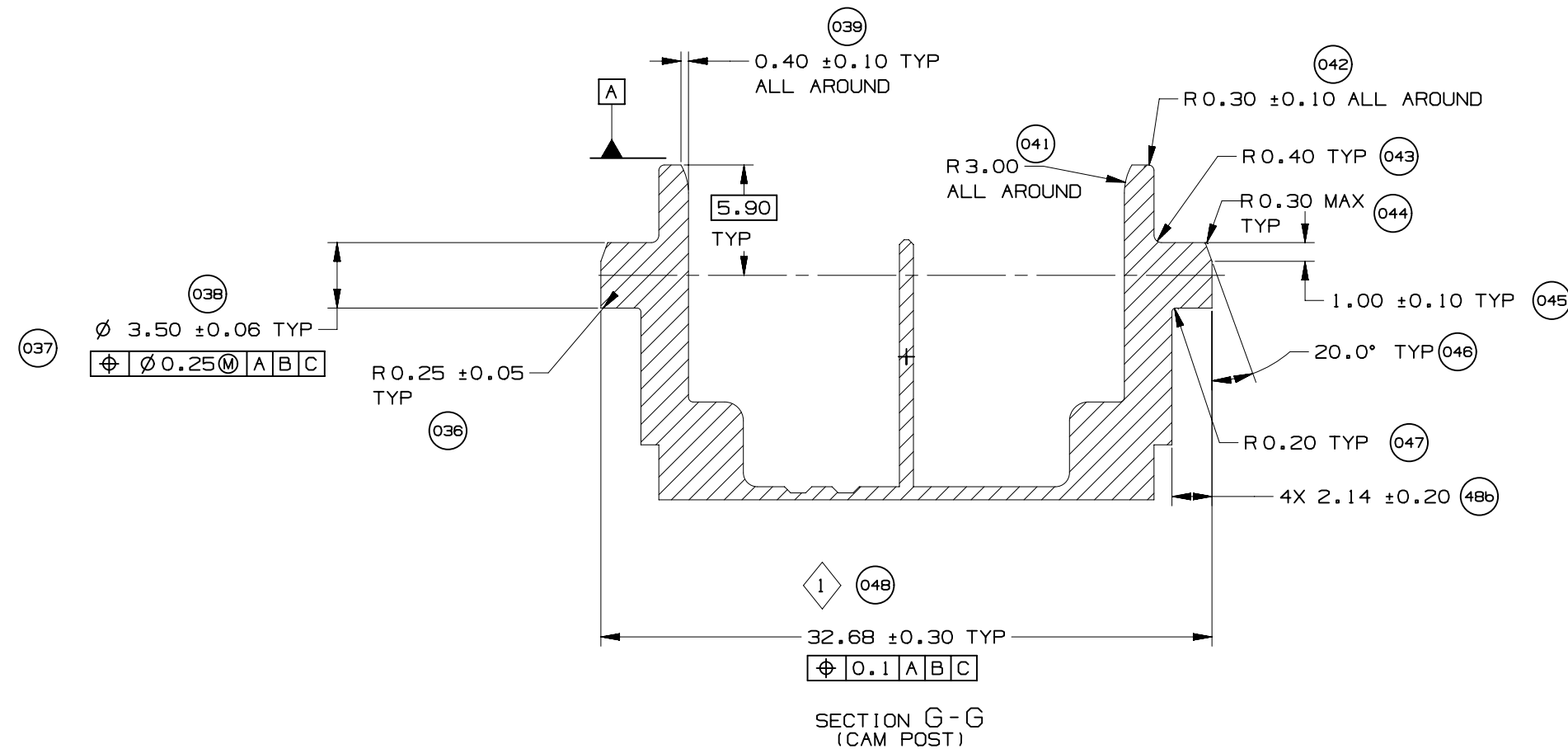
DRAWING NUMBER
12672833

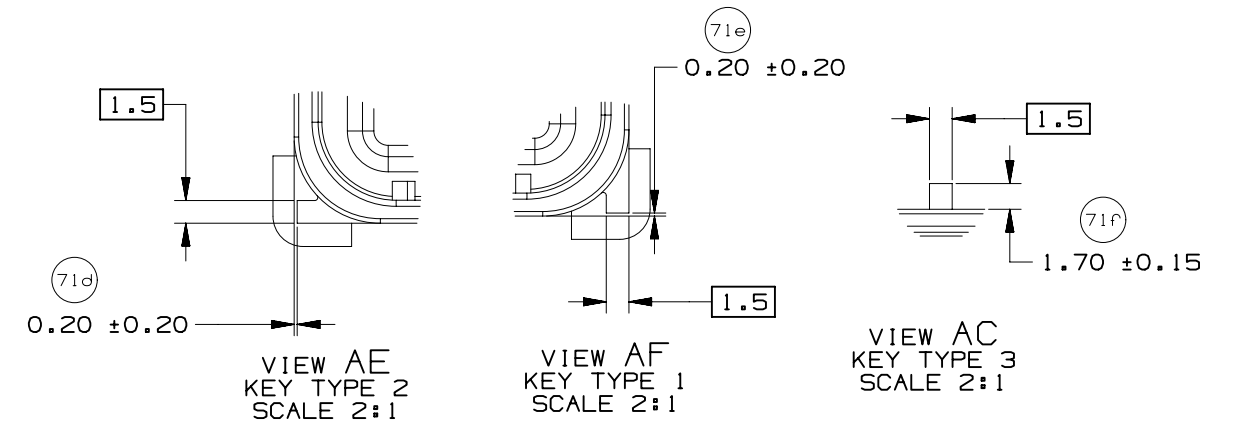
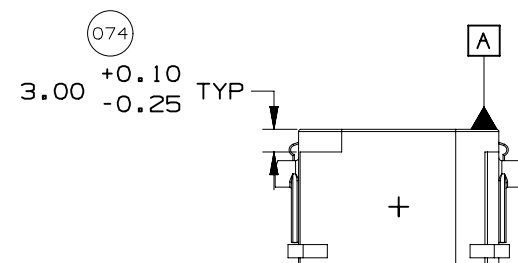
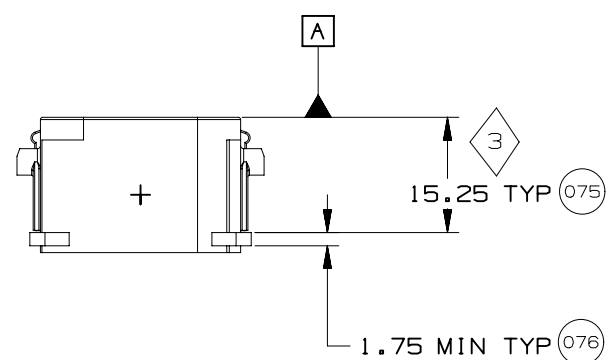
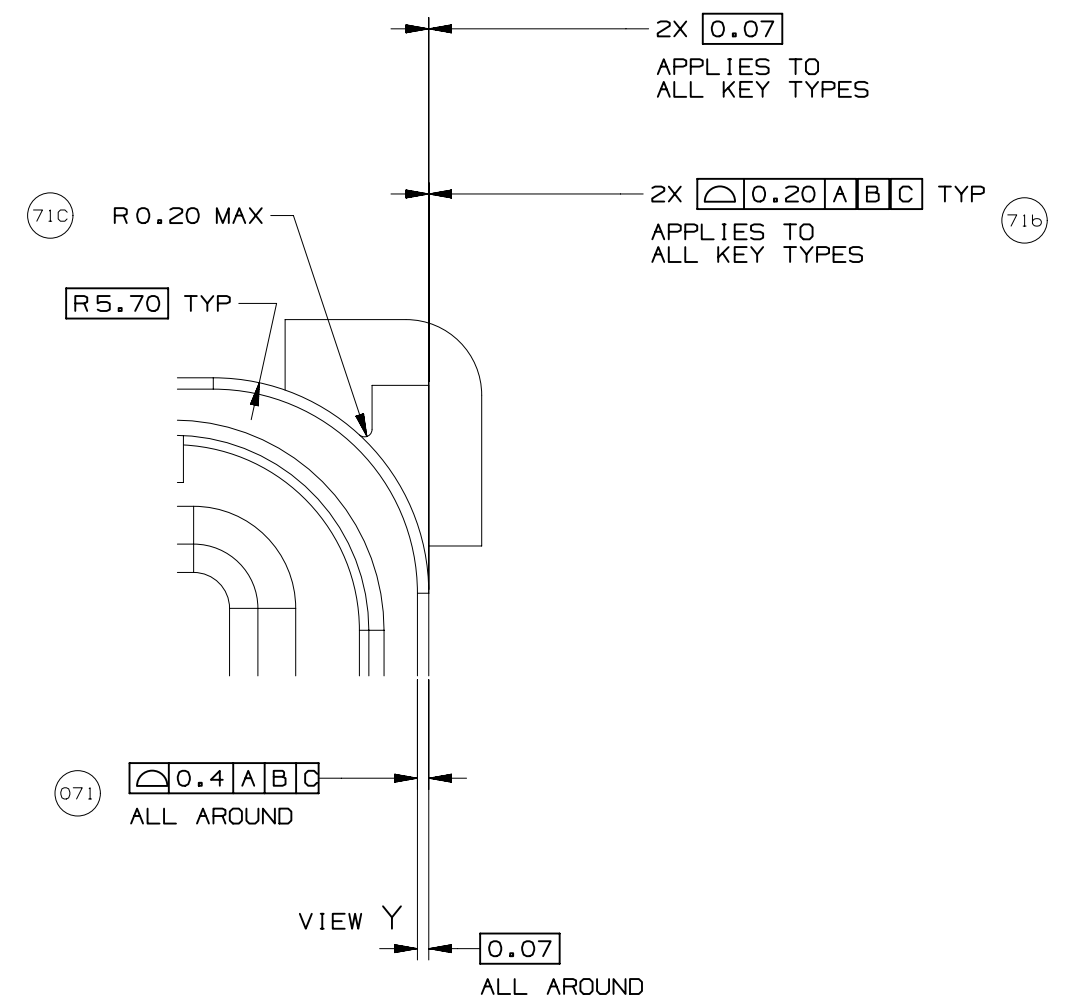
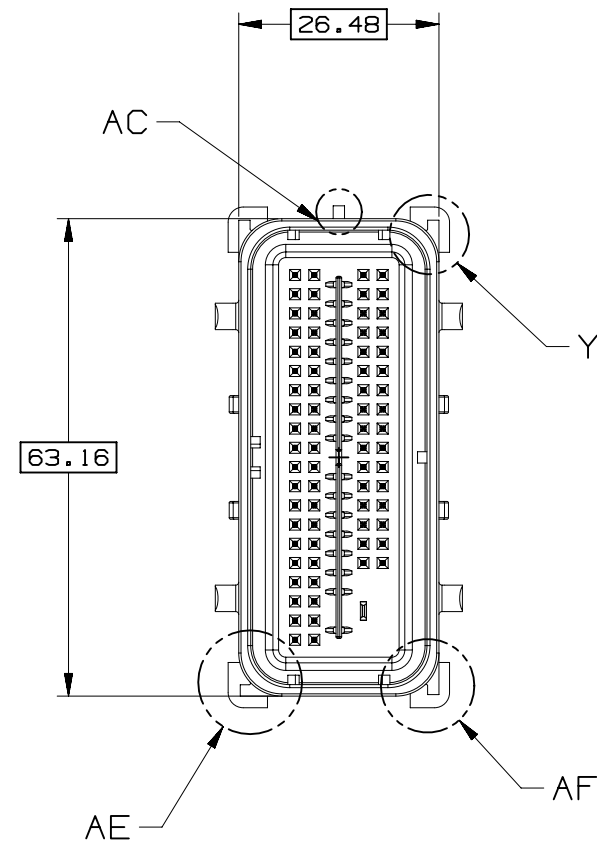
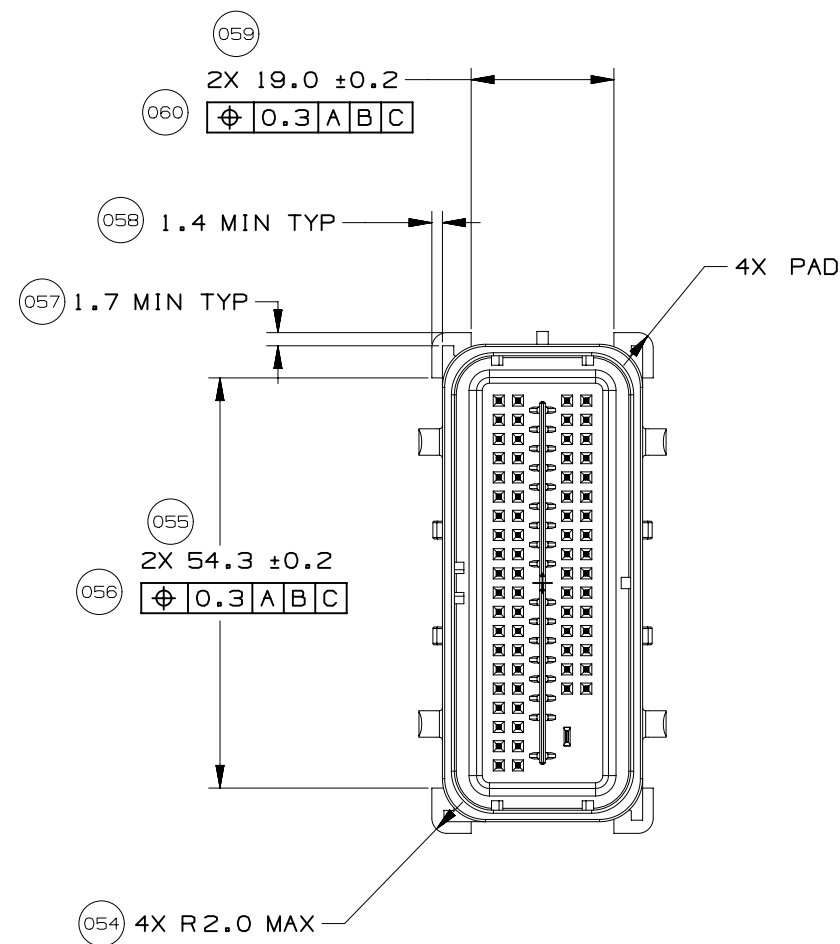
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SECTION F-F
(RELEASE FEATURE)

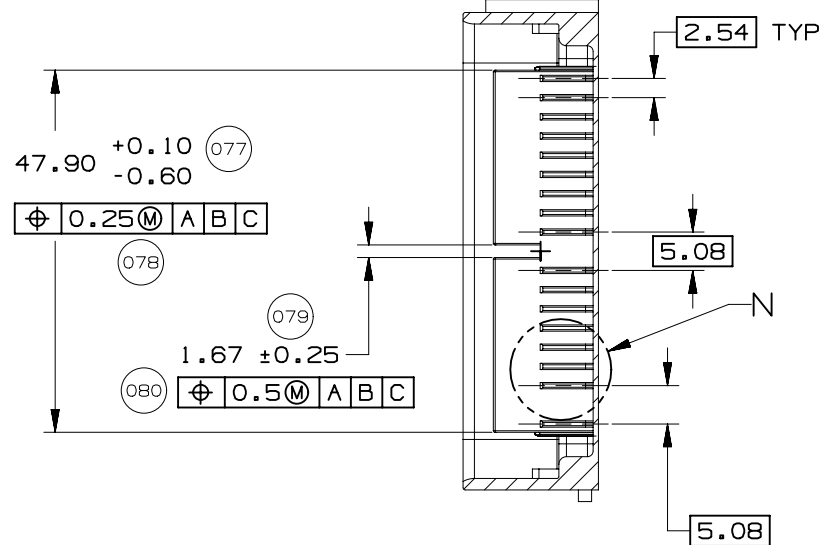
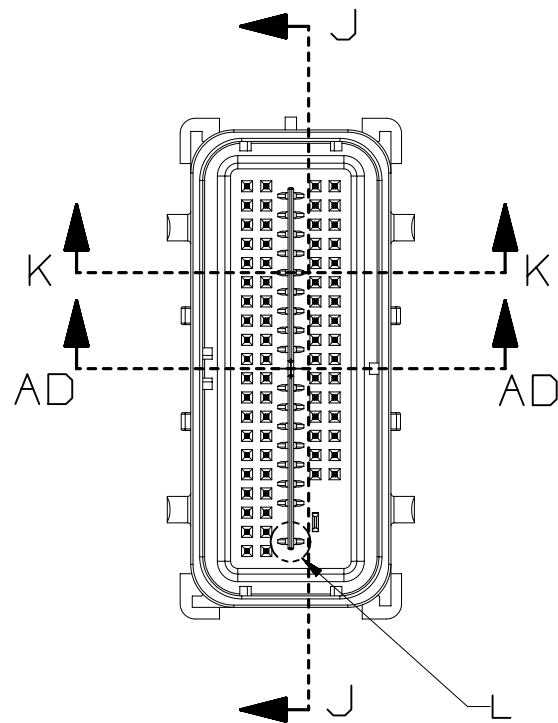




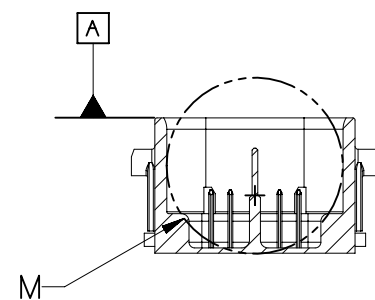
PAGE TITLE
COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
12672833

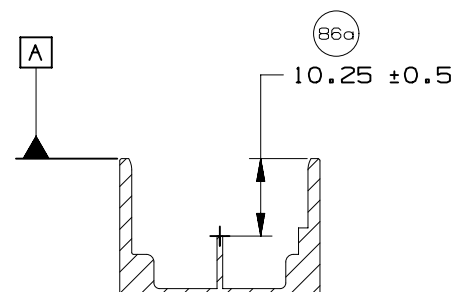
DWG STATUS			PAGE NUMBER	
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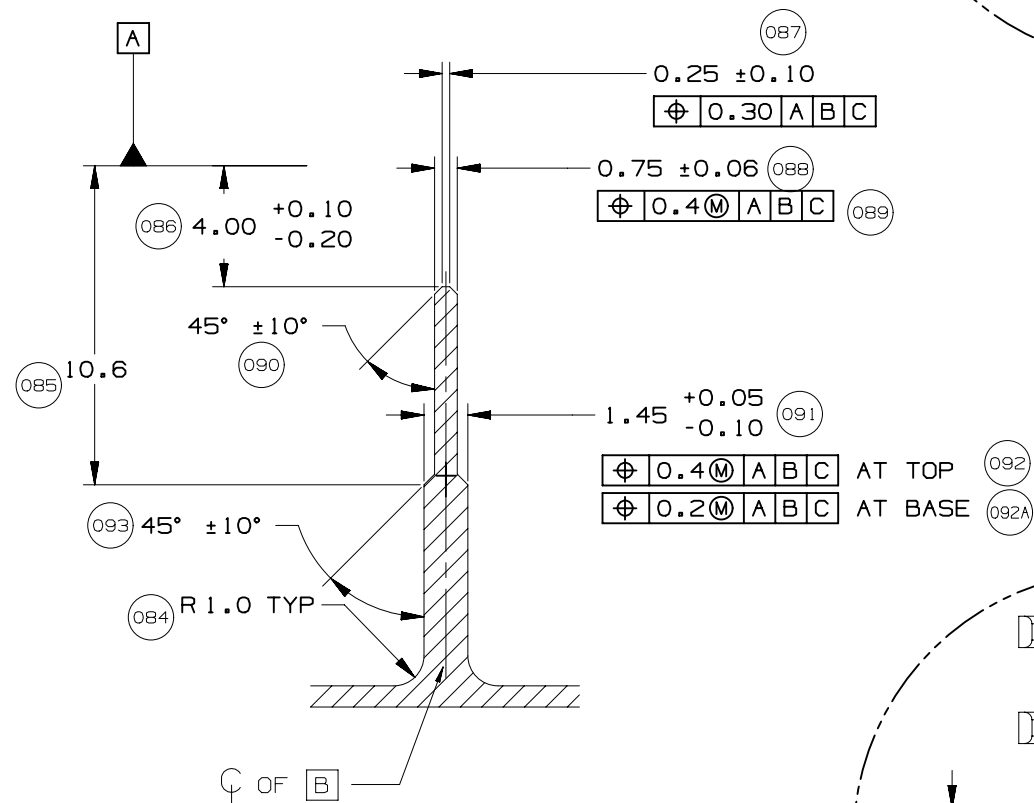
SECTION J-J



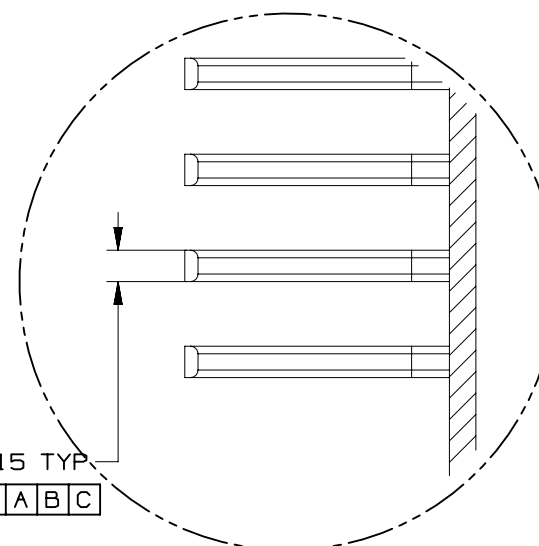
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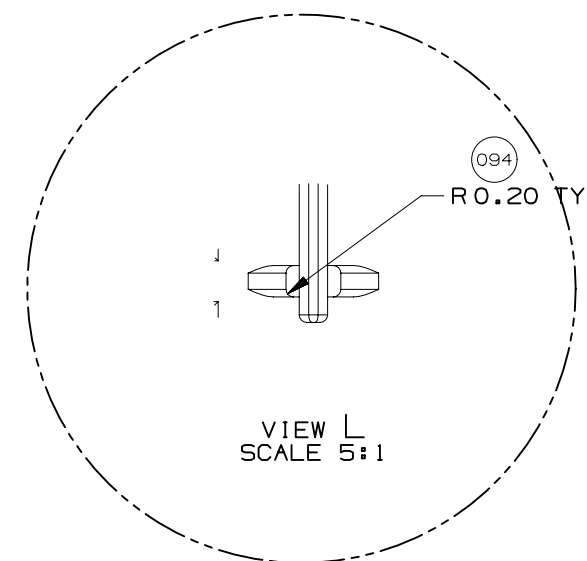
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DETAIL M
TYPICAL
SCALE 4:1

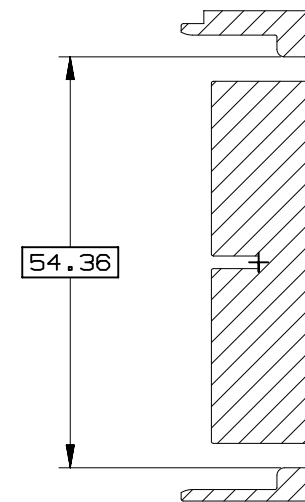
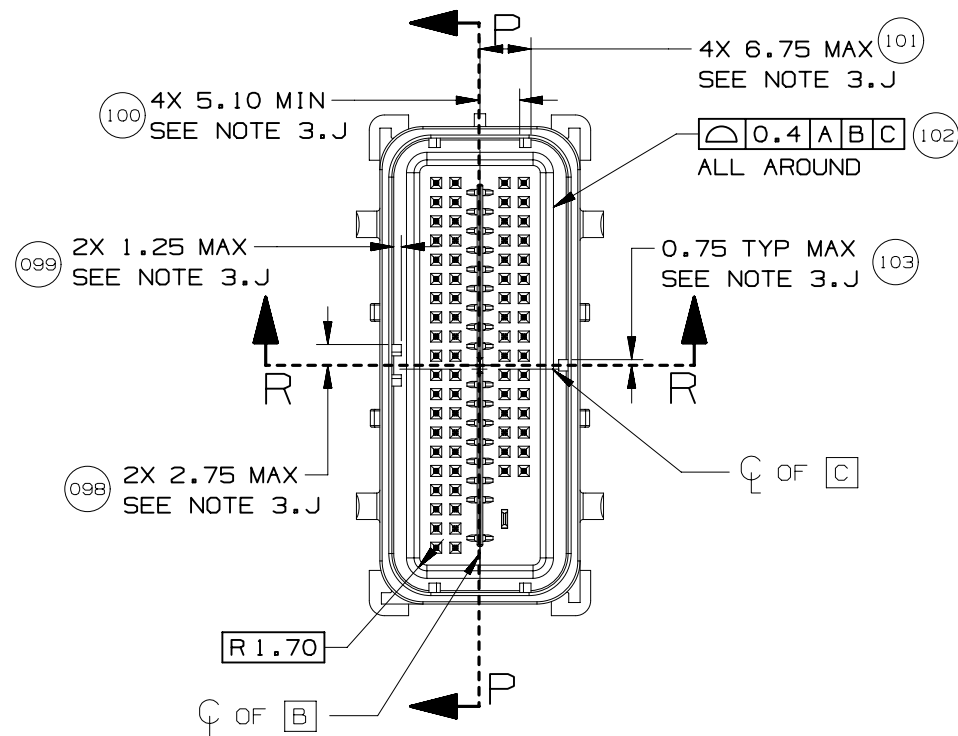


DETAIL N
SCALE 5:1

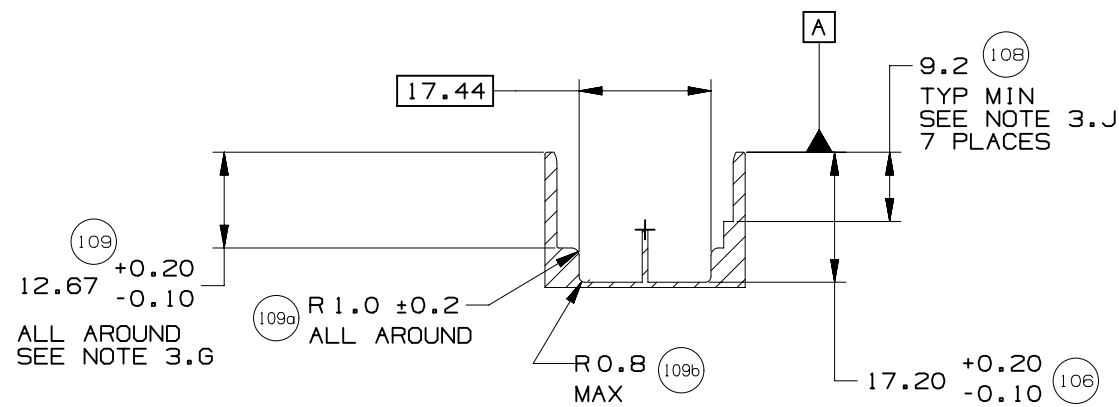


VIEW L
SCALE 5:1





SECTION P-P



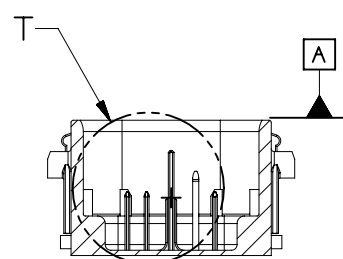
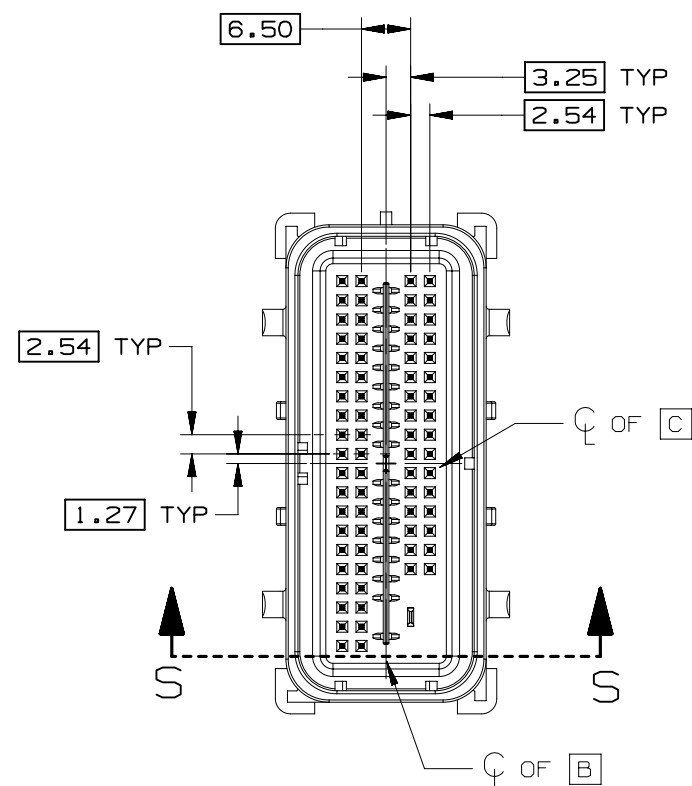
SECTION R-R



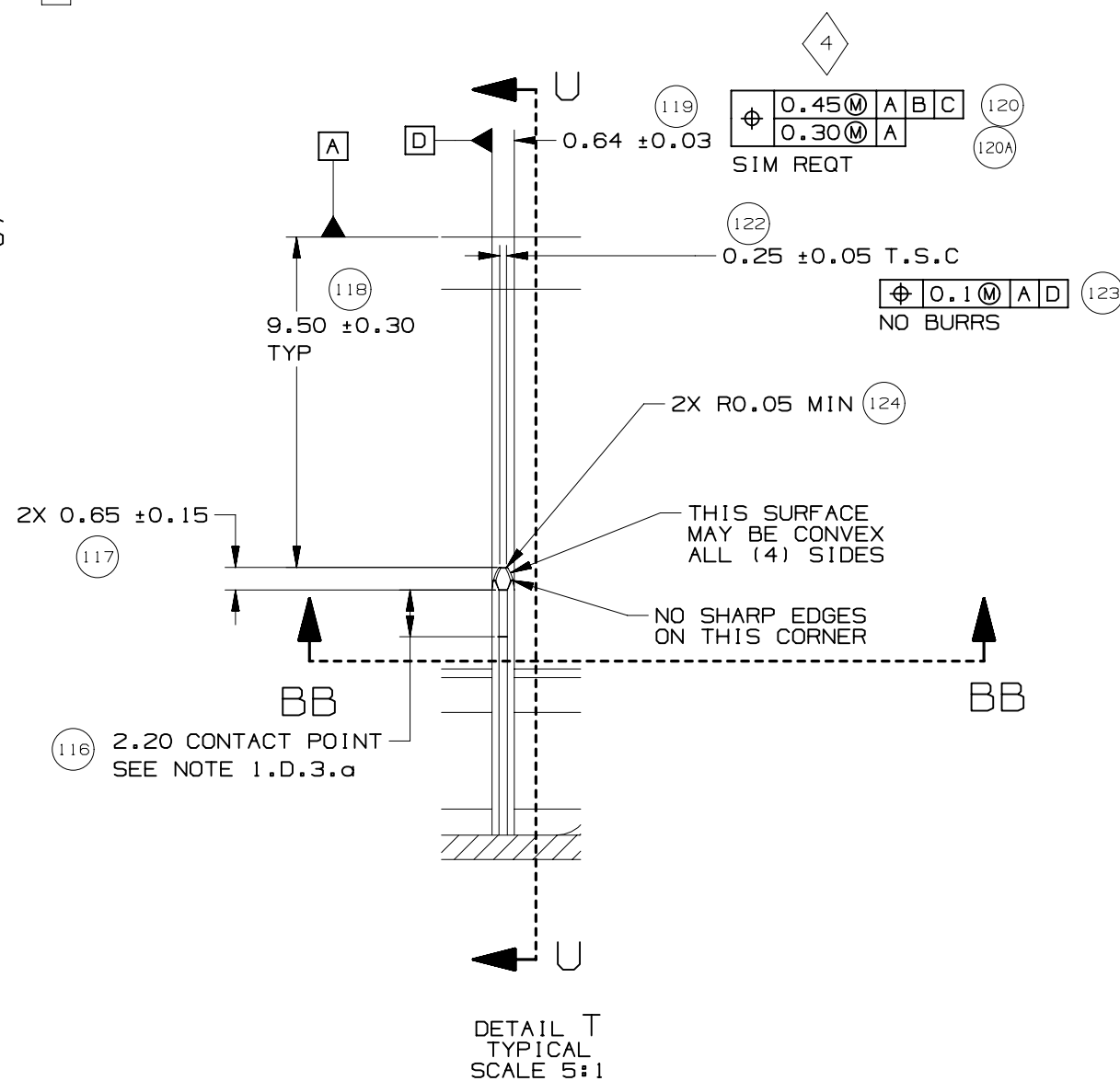
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COMPONENT CONNECTOR INTERFACE

DRAWING NUMBER
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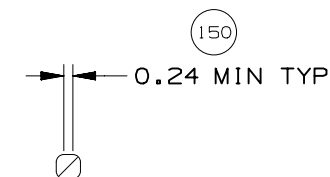
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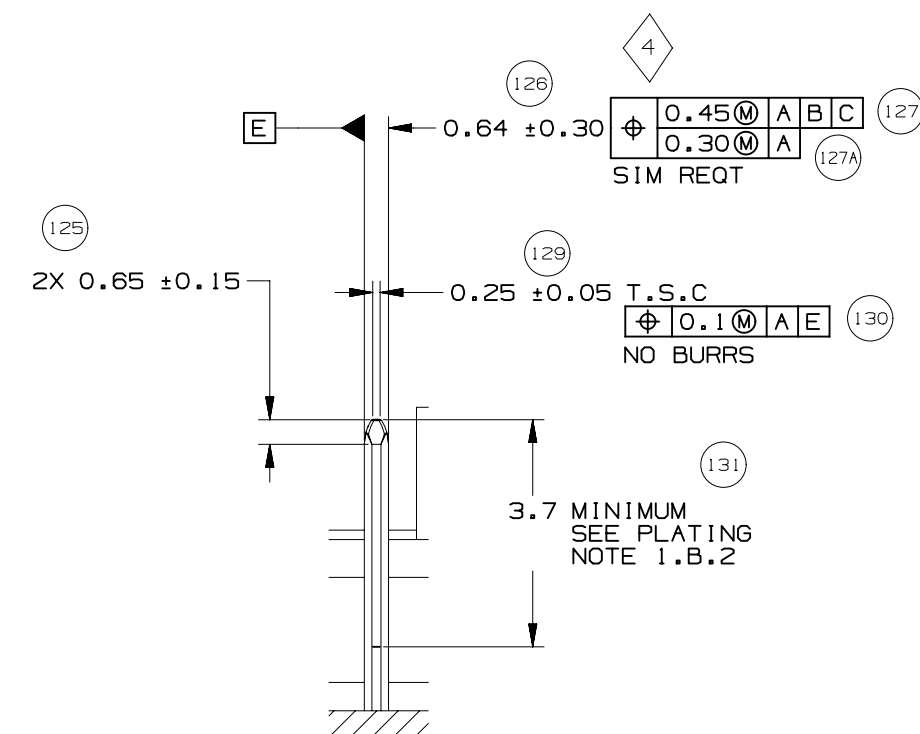
SECTION S-S



DETAIL T
TYPICAL
SCALE 5:1

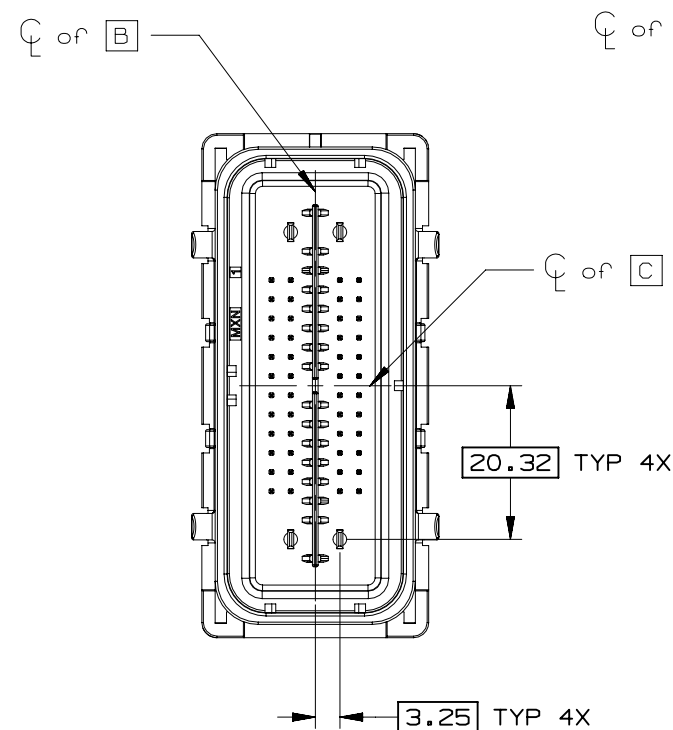


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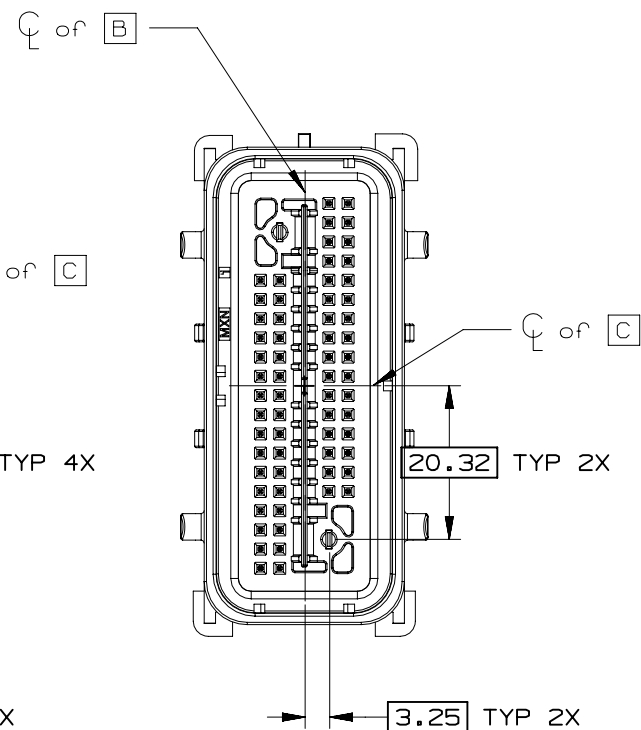


SECTION U-U
TYPICAL

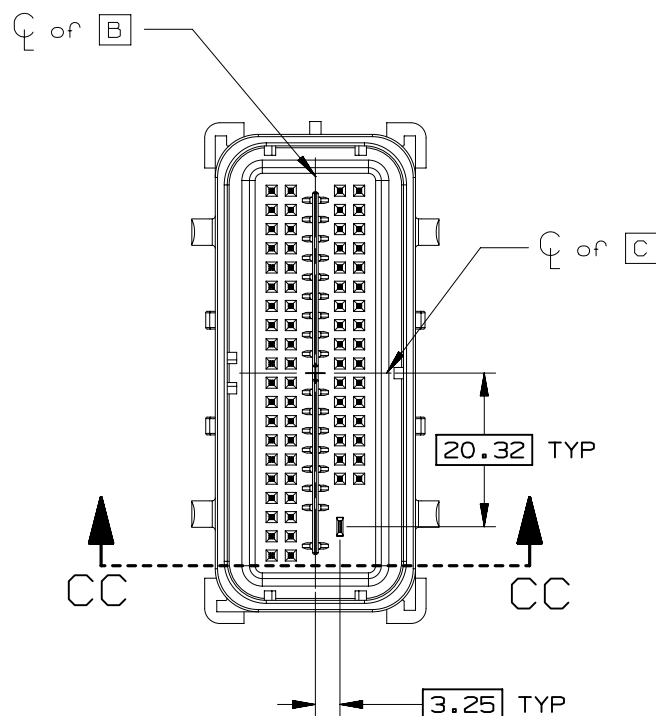




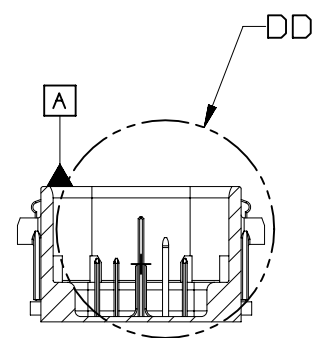
52 CKT COMPONENT
CONNECTOR INTERFACE



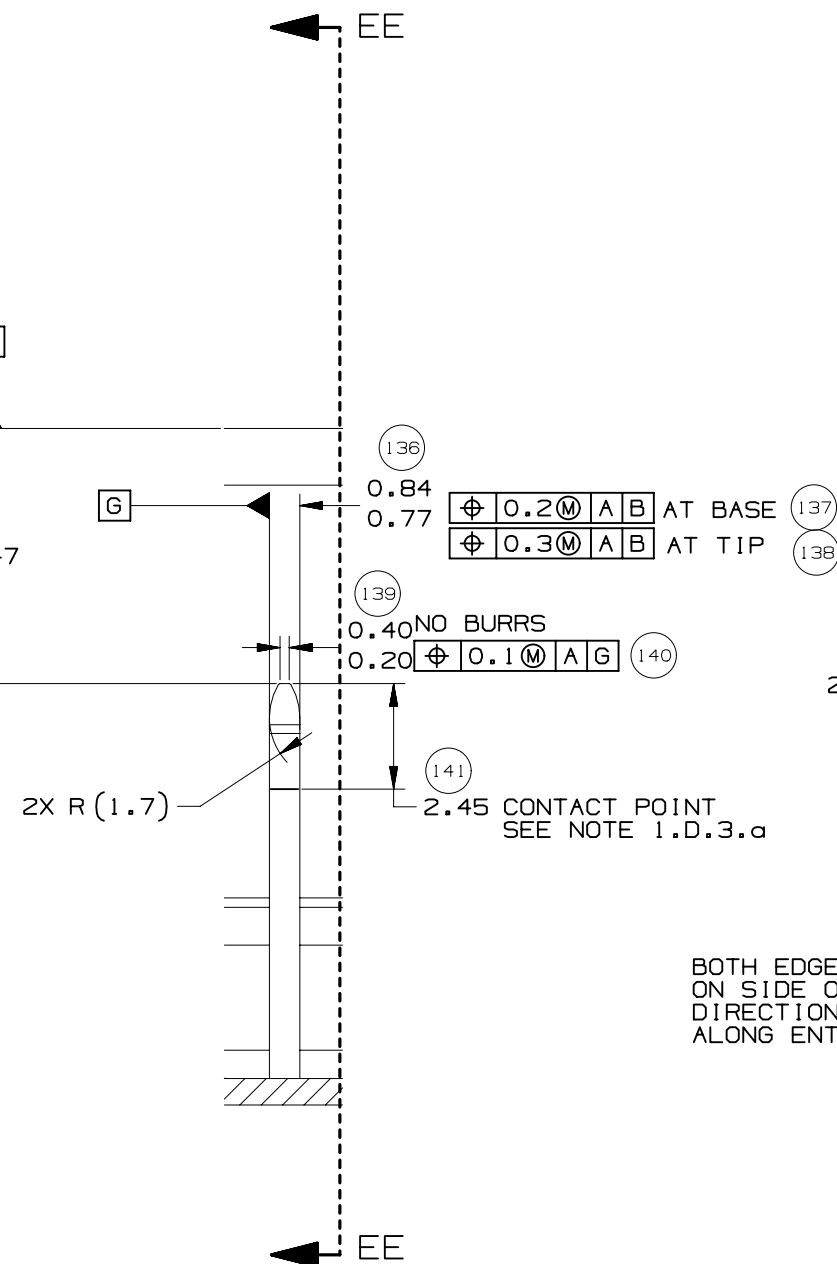
66 CKT COMPONENT
CONNECTOR INTERFACE



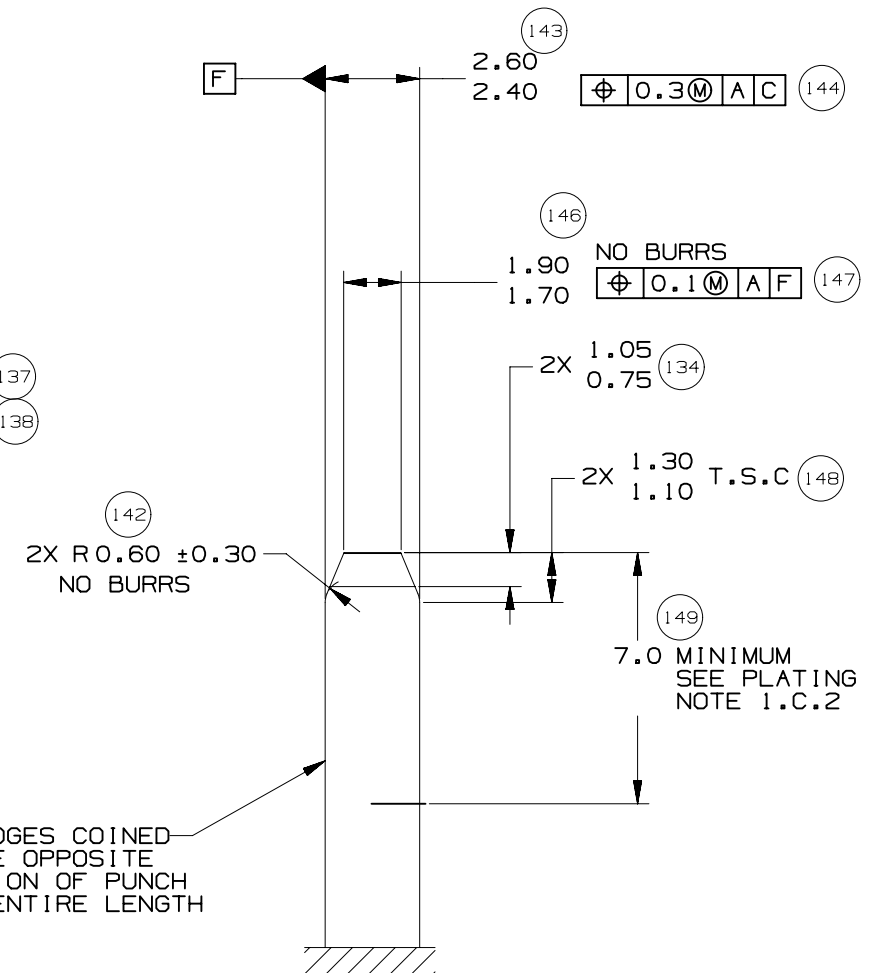
73 CKT COMPONENT
CONNECTOR INTERFACE



SECTION CC-CC



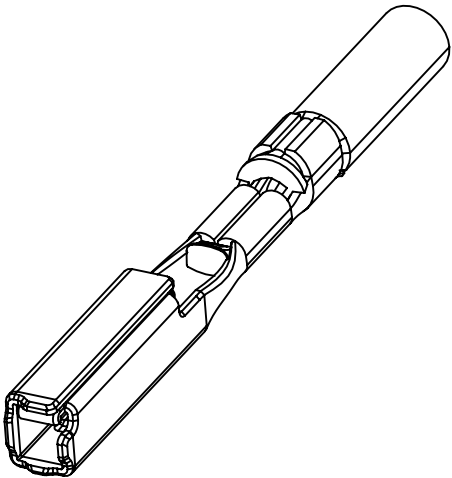
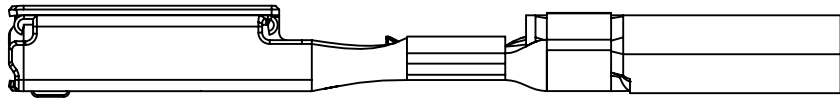
DETAIL DD
TYPICAL
SCALE 5:1



SECTION EE-EE
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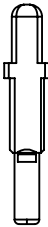
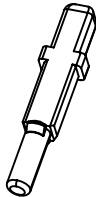


MOLEX MX64 RECEPTACLE TERMINAL INFORMATION							
ITEM	MOLEX P/N	GM P/N	WIRE SIZE MM2	TYPE	PLATING	REEL WIND DIRECTION	COMMENTS
1	34736-0025		0.35	ISO	SILVER	LEFT	
2	34736-0026	12672850	0.35	ISO	SILVER	RIGHT	
3	34736-0027		0.5 / 0.75	ISO	SILVER	LEFT	
4	34736-0028	12672851	0.5 / 0.75	ISO	SILVER	RIGHT	

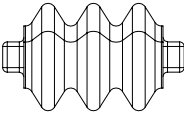
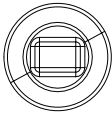


CAVITY PLUGS									
ITEM	MFG	MFG P/N	GM P/N RD	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	12674820	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	12674821	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

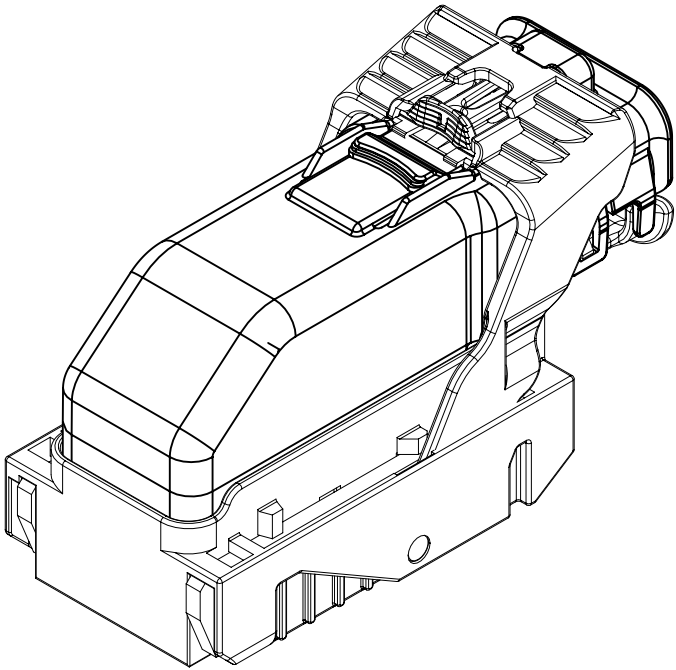
ITEM 1



ITEM 2



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ISO VIEW

GM		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			
UC CHANGE RESTRICTED NO MANUAL CHANGES		REFERENCE 12H (MOLEX AUTOMOTIVE)		DRAFTER 05JN15				
DO NOT SCALE				APVD1				
				APVD2				
				APVD3				
		APVD4						
METRIC DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED		DRAWING NAME HARNESS CONN ASM-SEALED 52/66/73/80 CKTS,MX123		APVD5				
		DRAWING NUMBER 12672833		DWG STATUS			PAGE NUMBER 1 OF 22	
				ST REV PD1				
				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						
		PAGE TITLE KPC BLOCK				DRAWING NUMBER 12672833			DWG STATUS			PAGE NUMBER 4 OF 22	
									ST	REV	PDI		
									R	001			

					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					12672833				
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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
 - 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
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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.

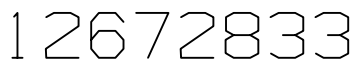
G. STEEL THAT FORMS THE INDICATED SURFACE MUST BE POLISHED WITH A DIAMOND FINISH (SPI A-2) OVER THE FULL PERIPHERY OF THE TOOL. SURFACE MUST HAVE NO MISMATCH.

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.
- | | | | | | | | |
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|  | PAGE TITLE |  | DWG STATUS | | | PAGE NUMBER | |
| | NOTES | | ST | REV | PDI | | |
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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

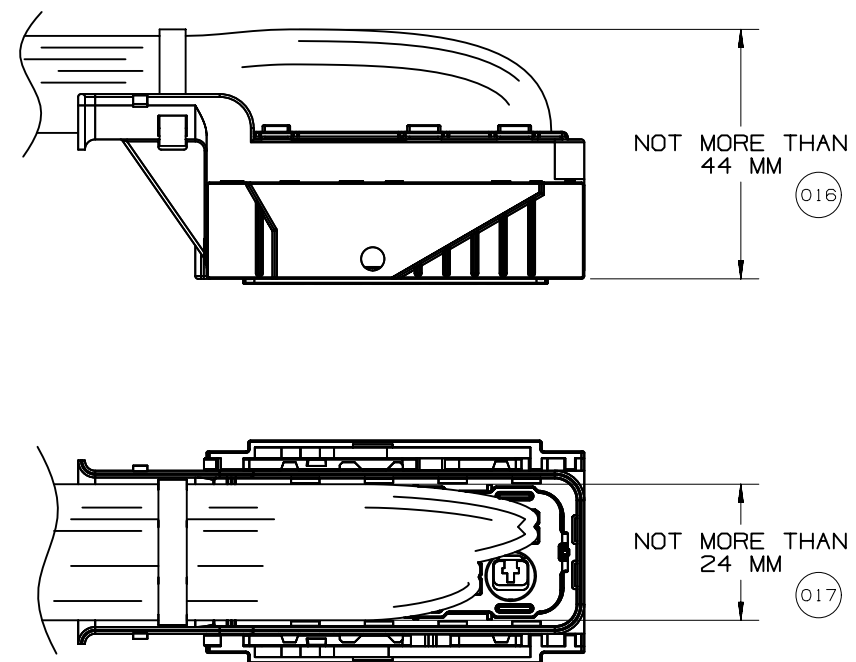
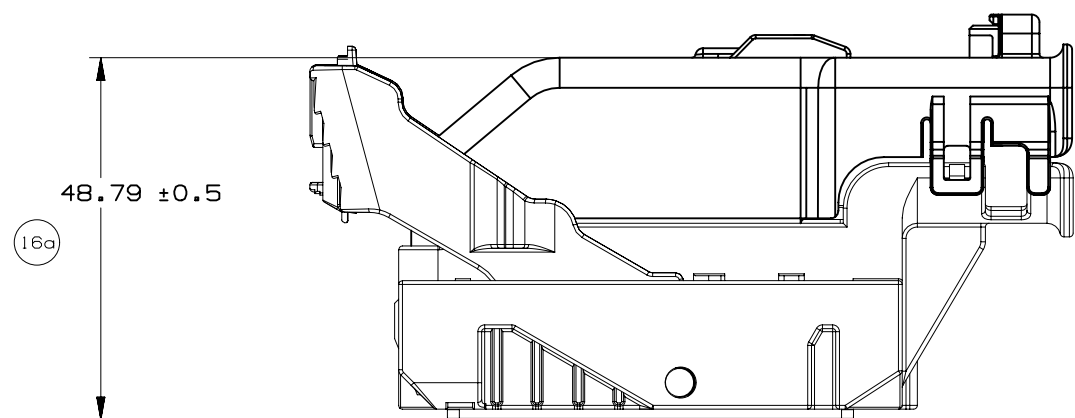
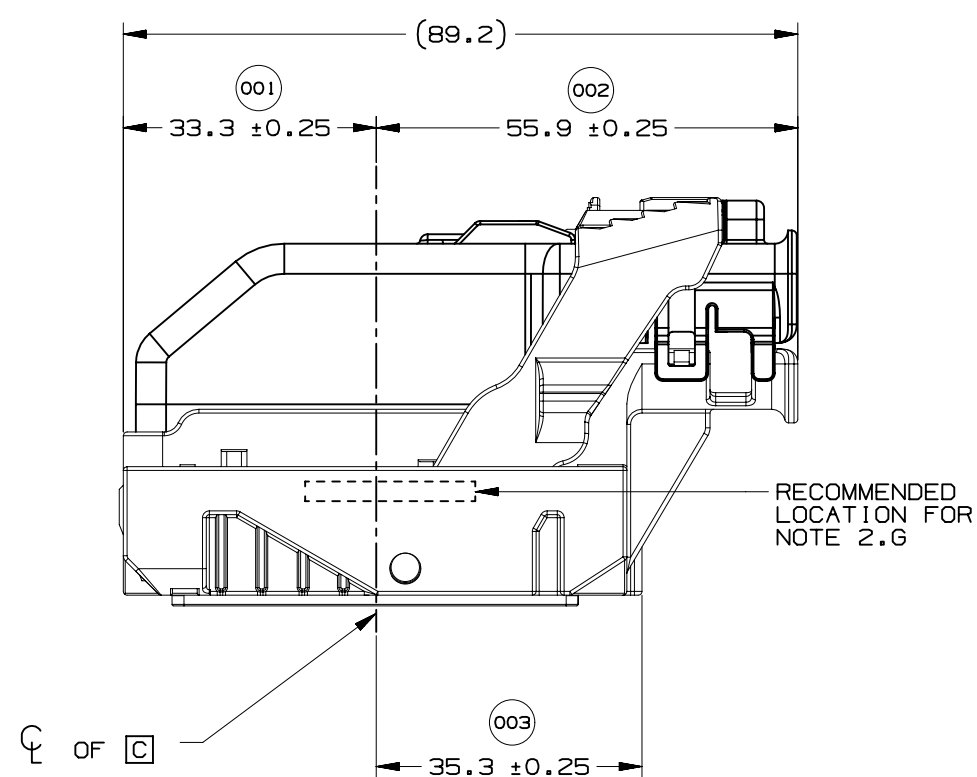
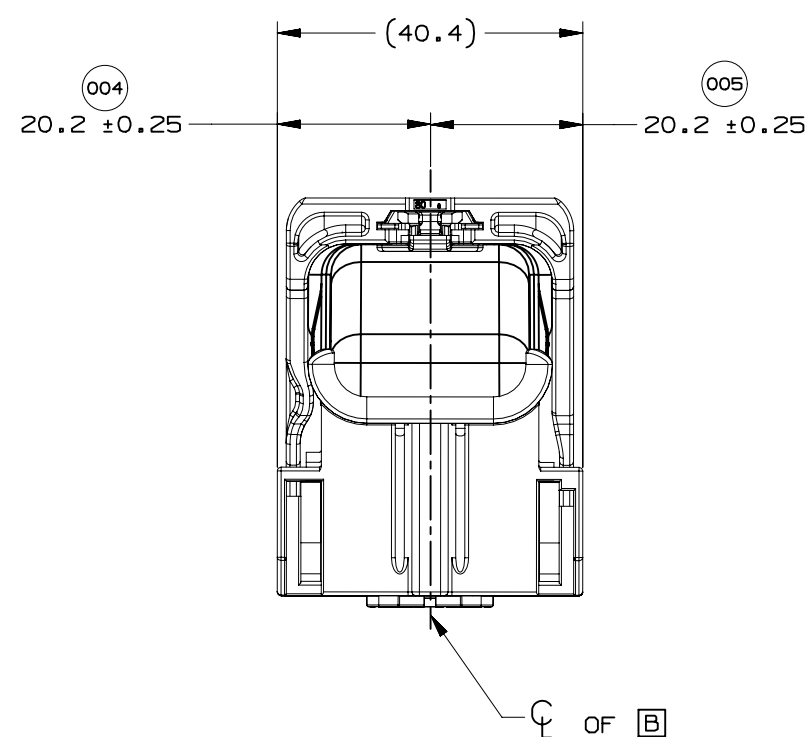


Fig. 1

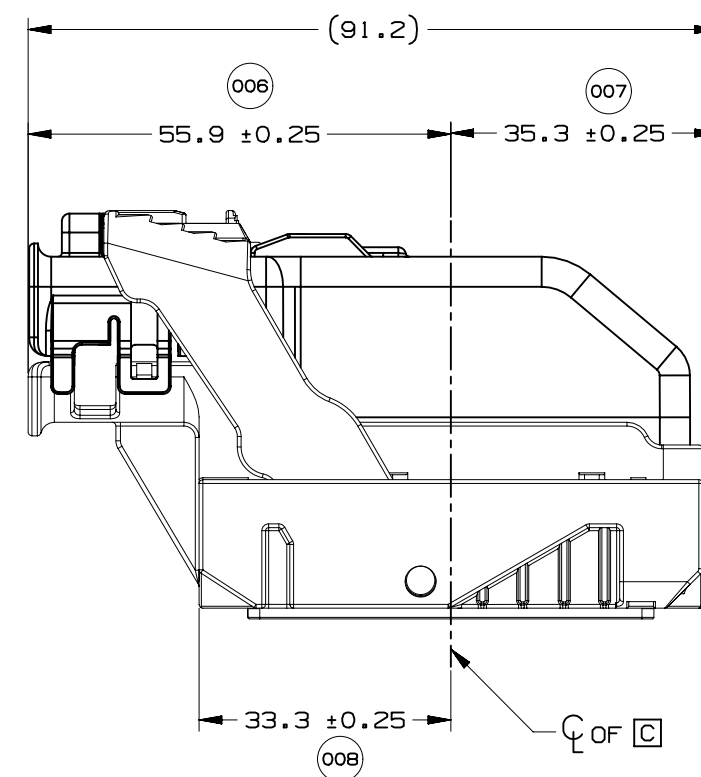




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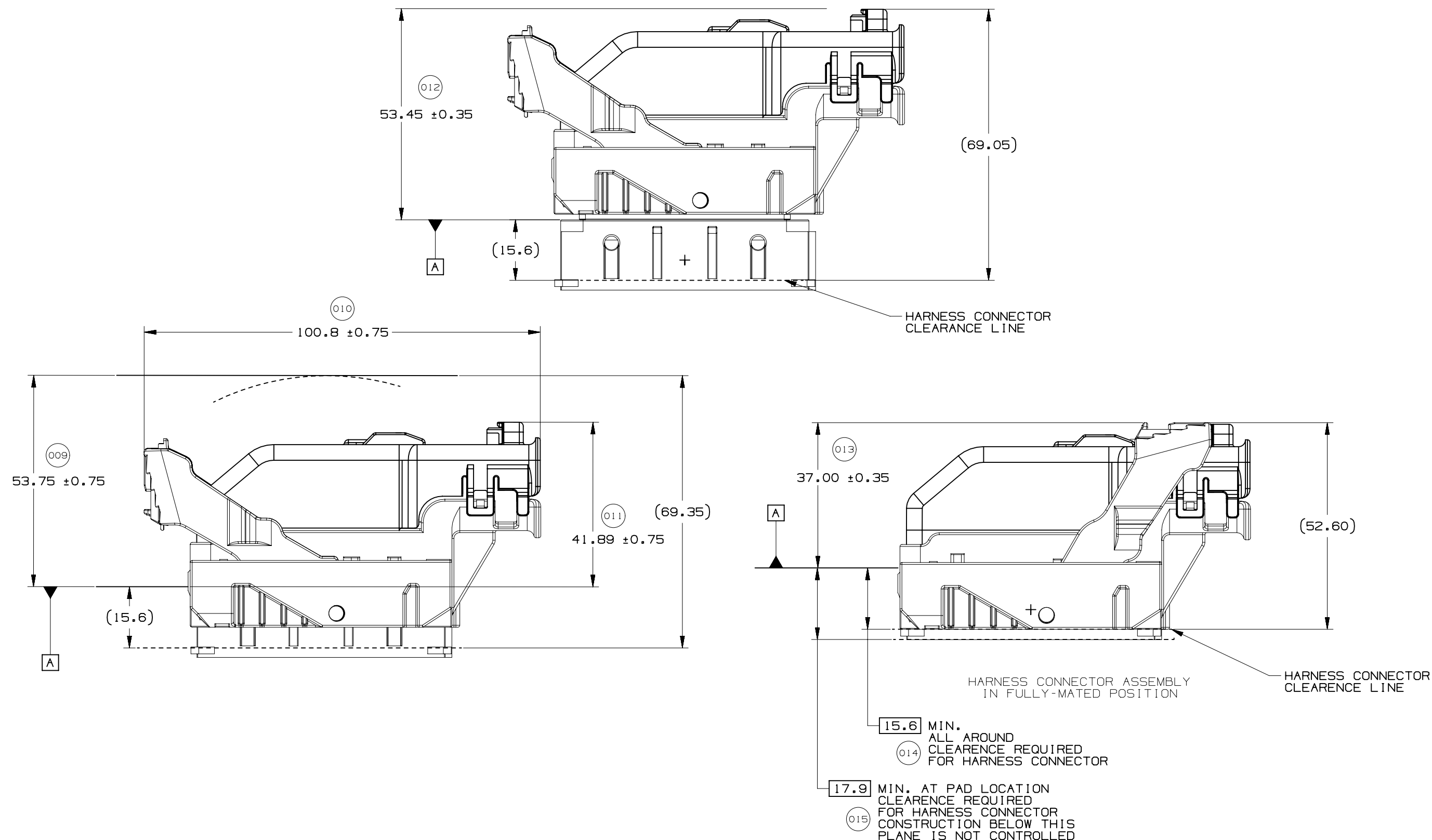


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WIRE DRESS OPTION 9 SHOWN





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REFERENCING INTERFACE DATUM A

DRAWING NUMBER

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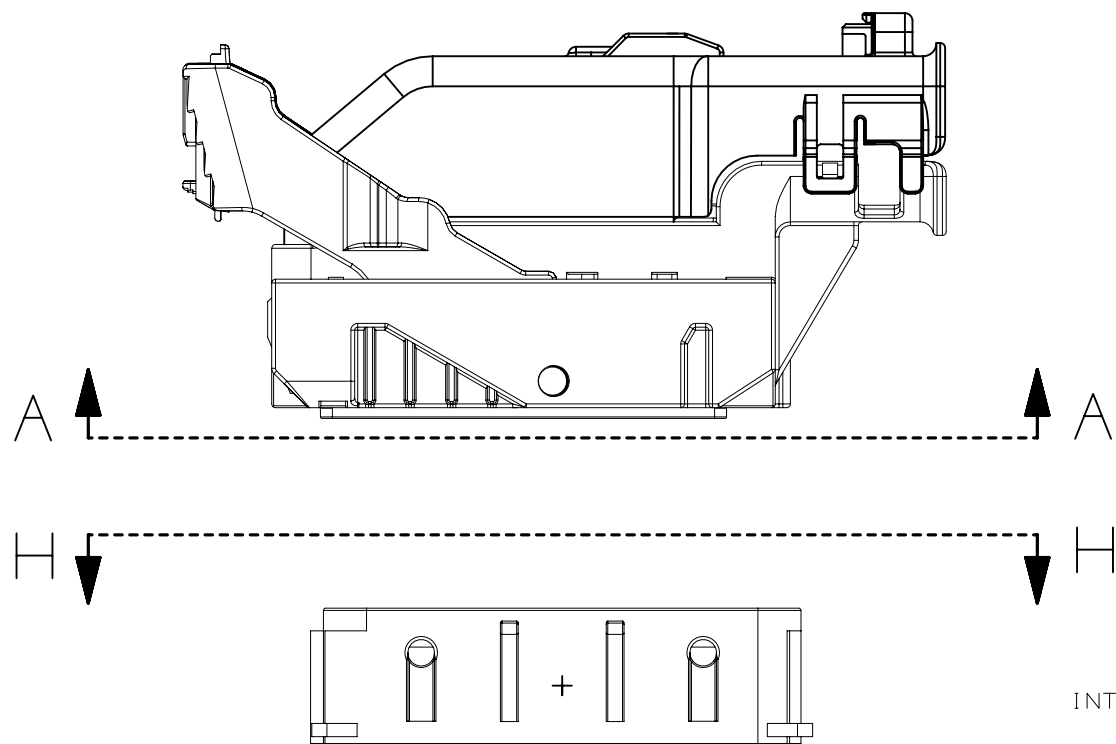
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ST REV PDI

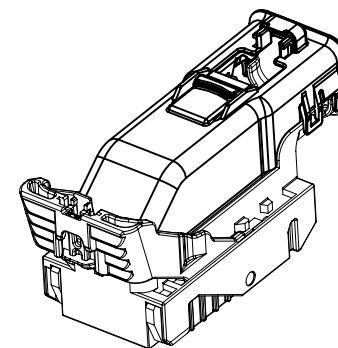
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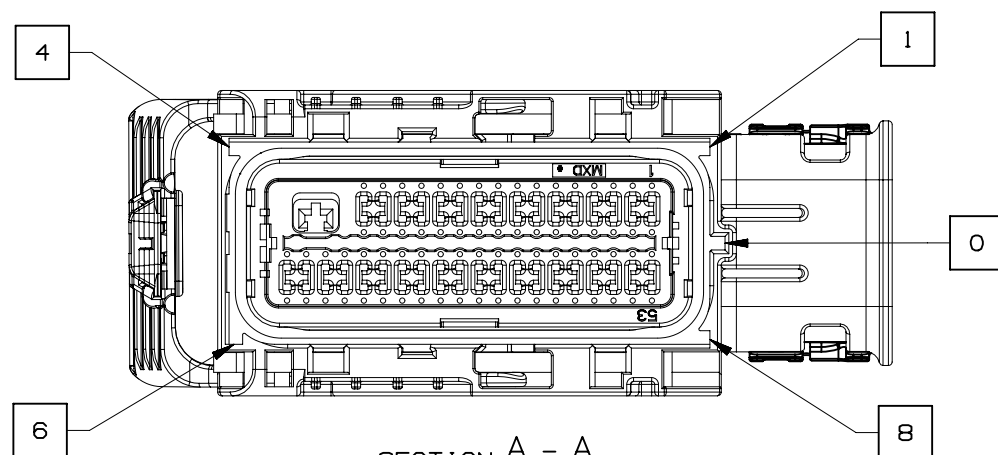
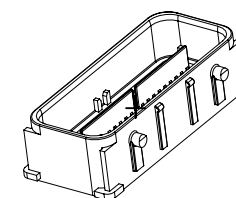
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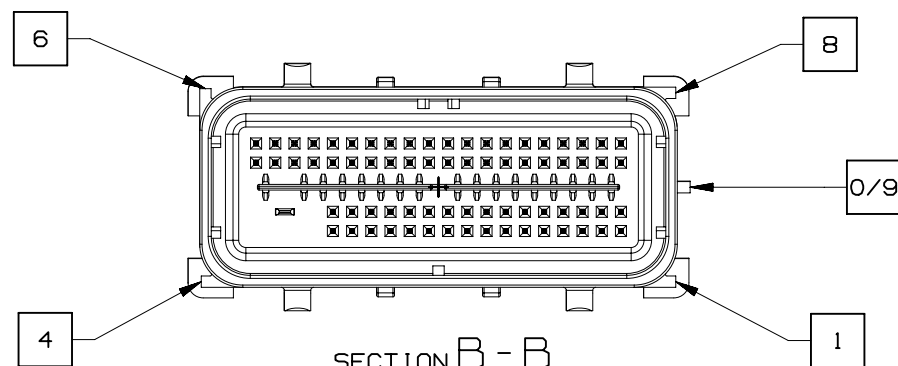
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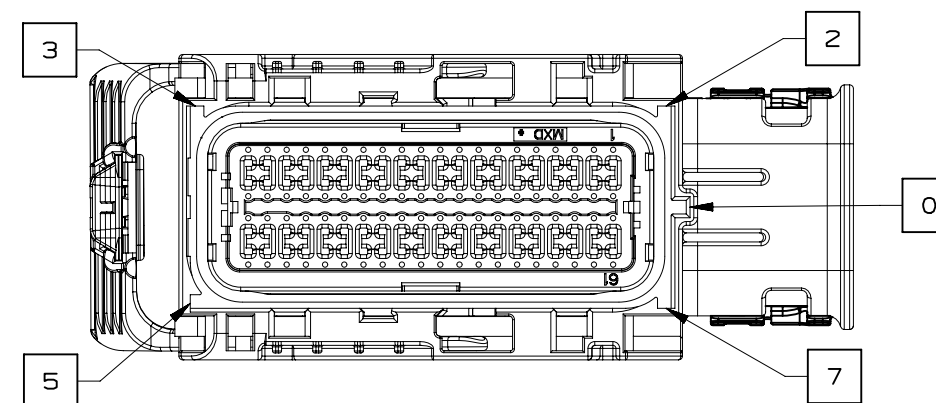
NOTE: REFERENCE THE COMPONENT TABLE
FOR KEY OPTIONS AND CONFIGURATIONS



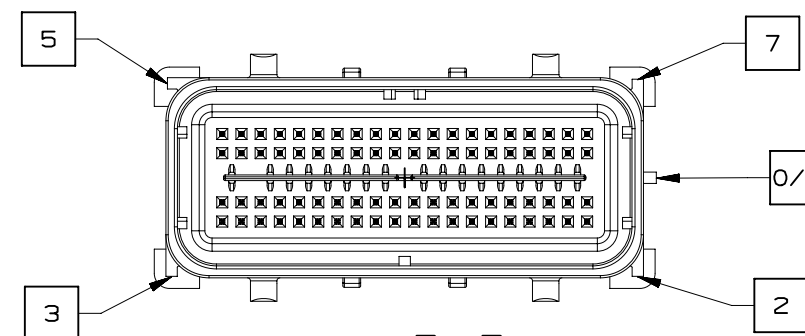
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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

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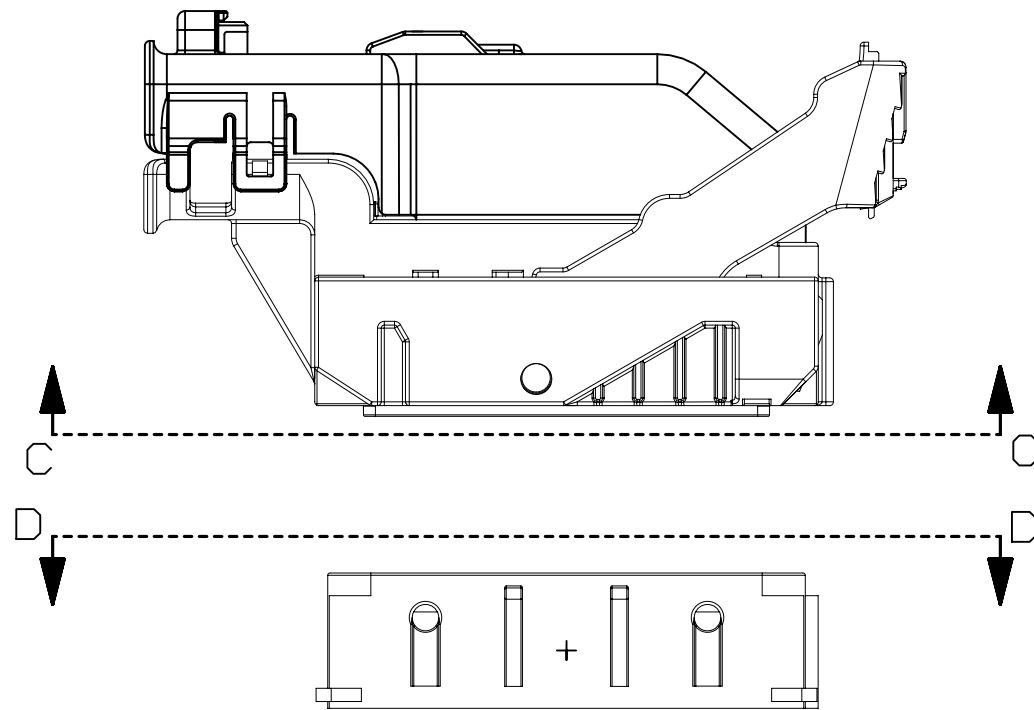
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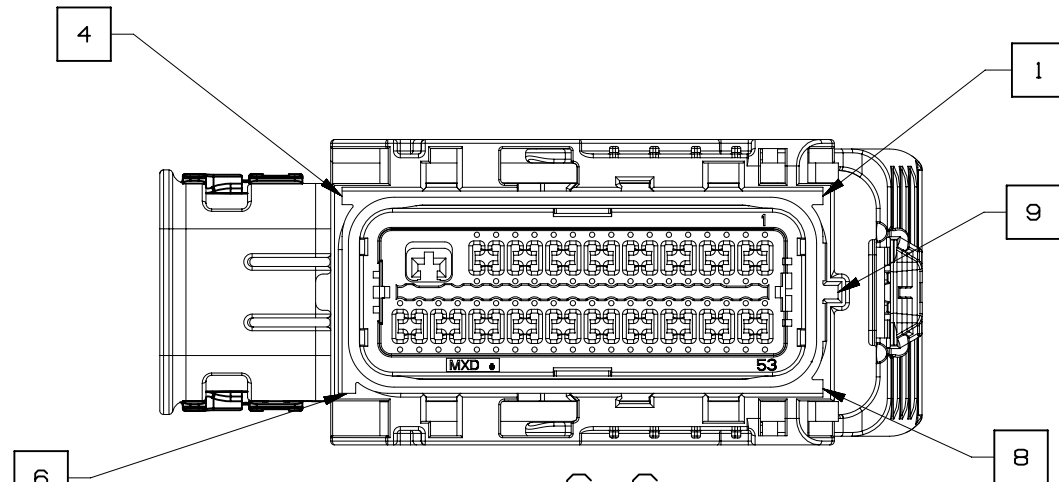
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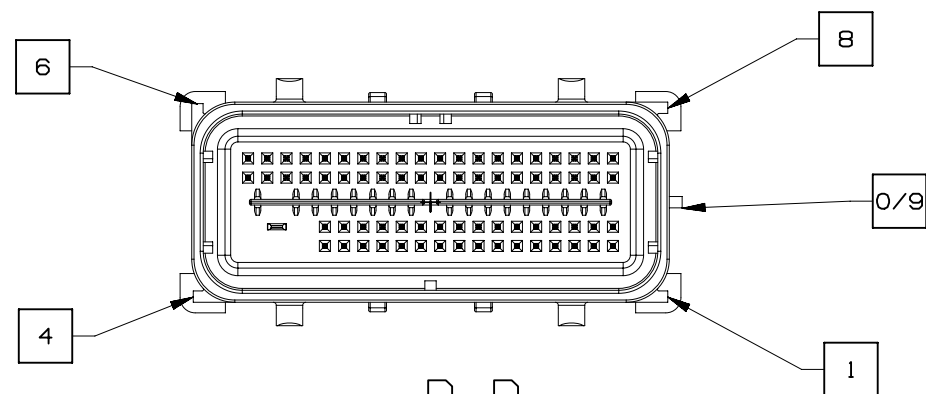
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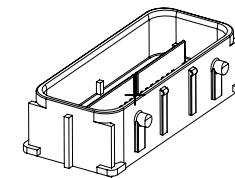
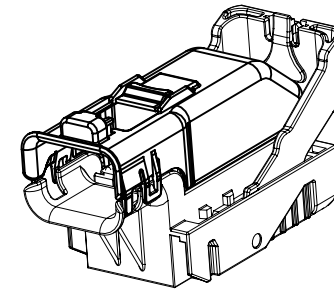
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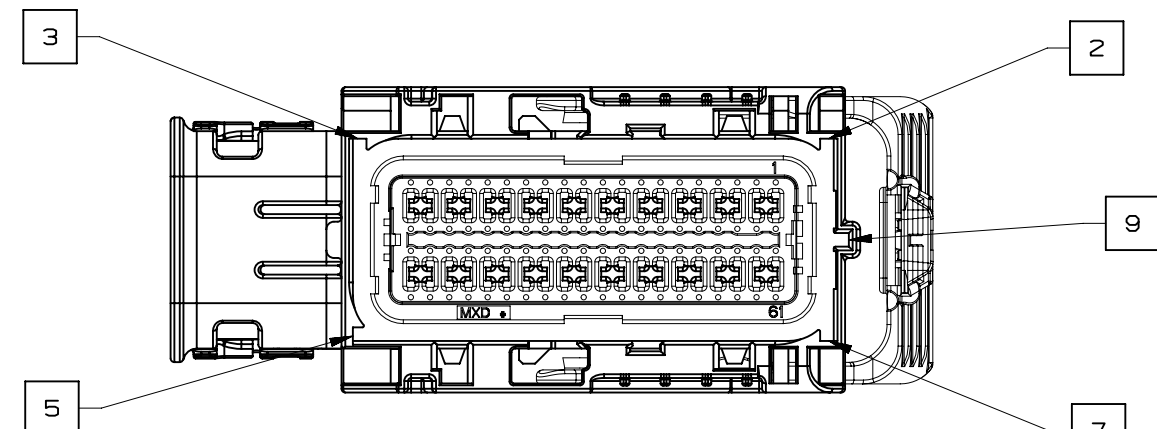
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73 CKT HARNESS CONNECTOR ASSEMBLY
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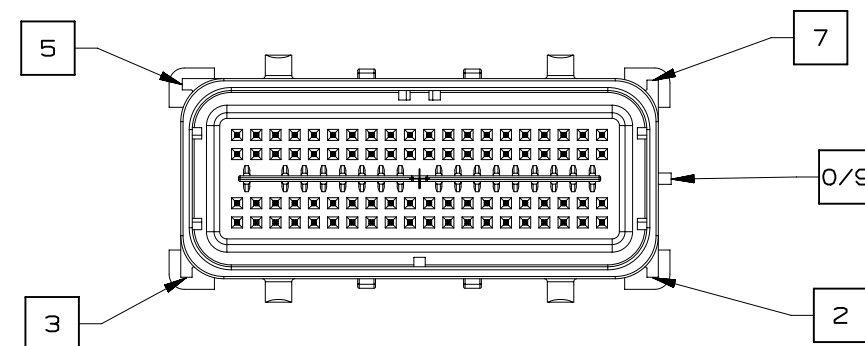
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73 CKT HARNESS CONNECTOR ASSEMBLY
KEY OPTION B SHOWN



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

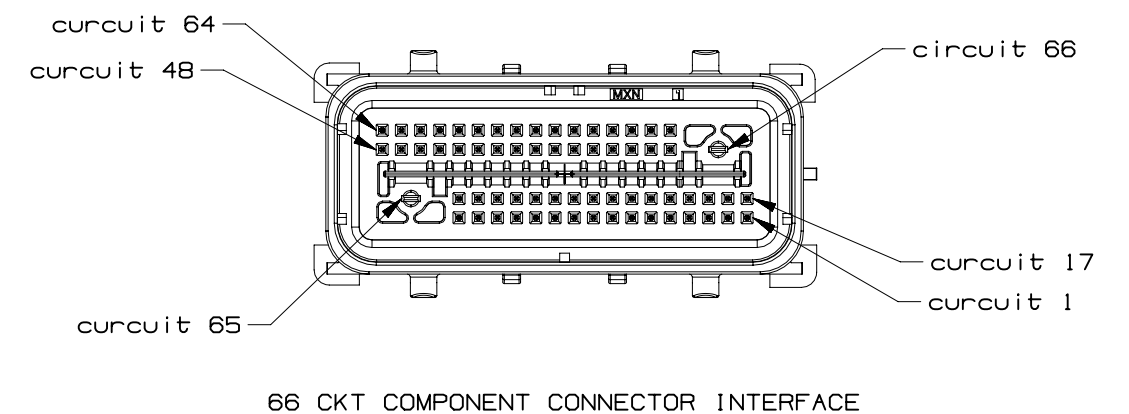
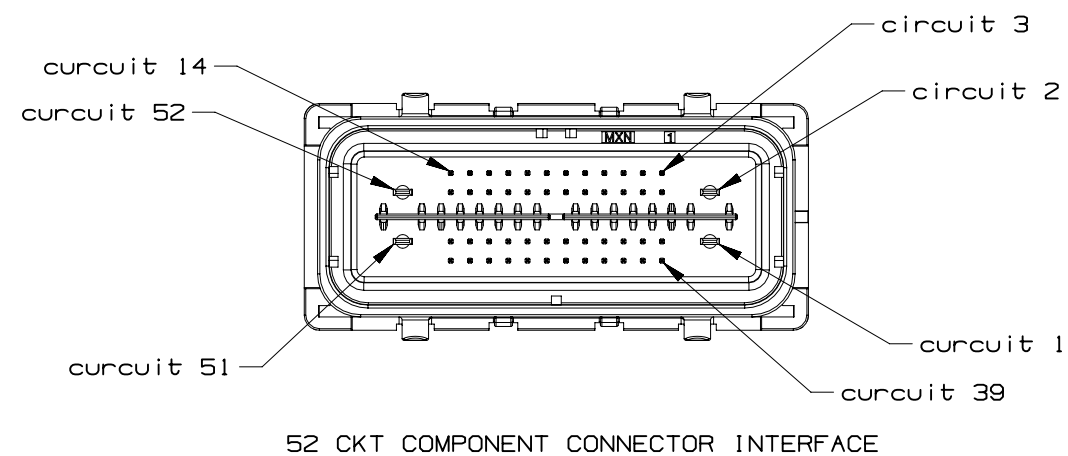
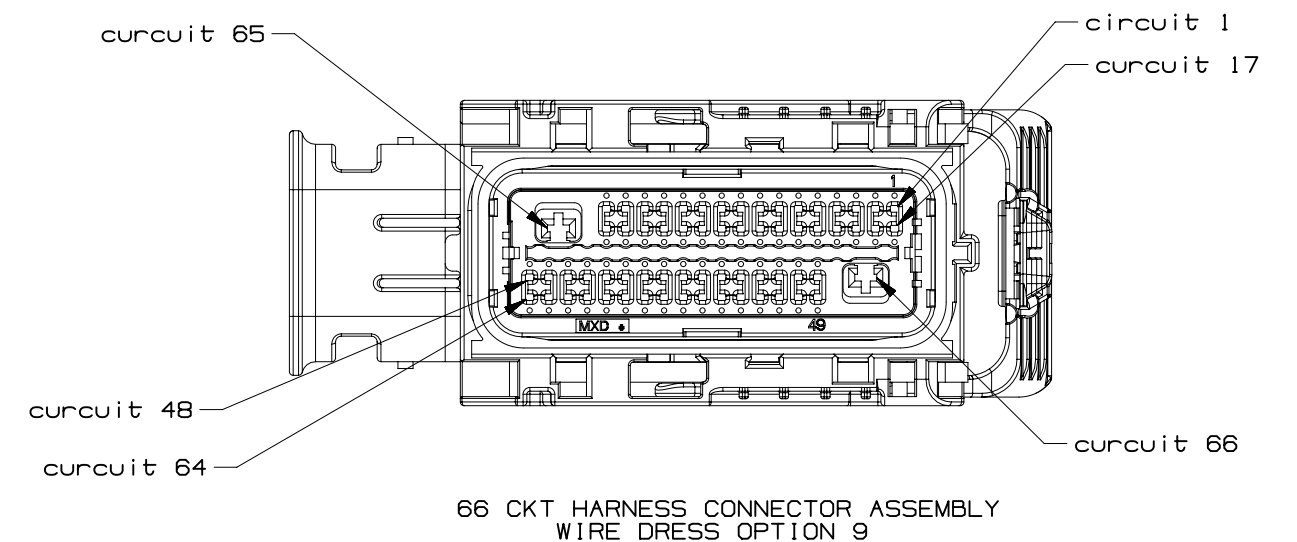
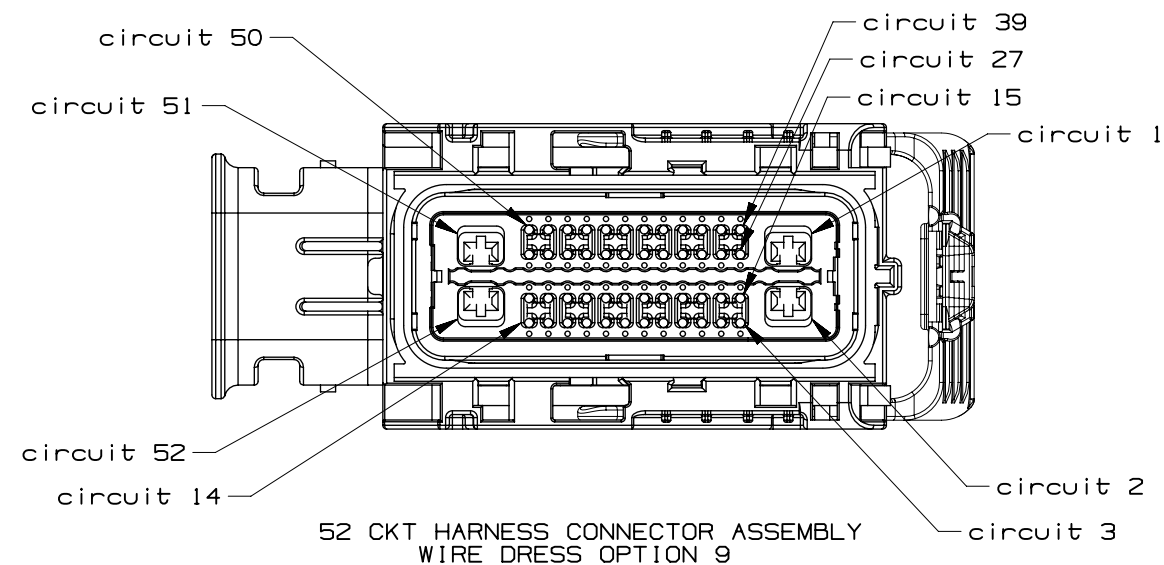
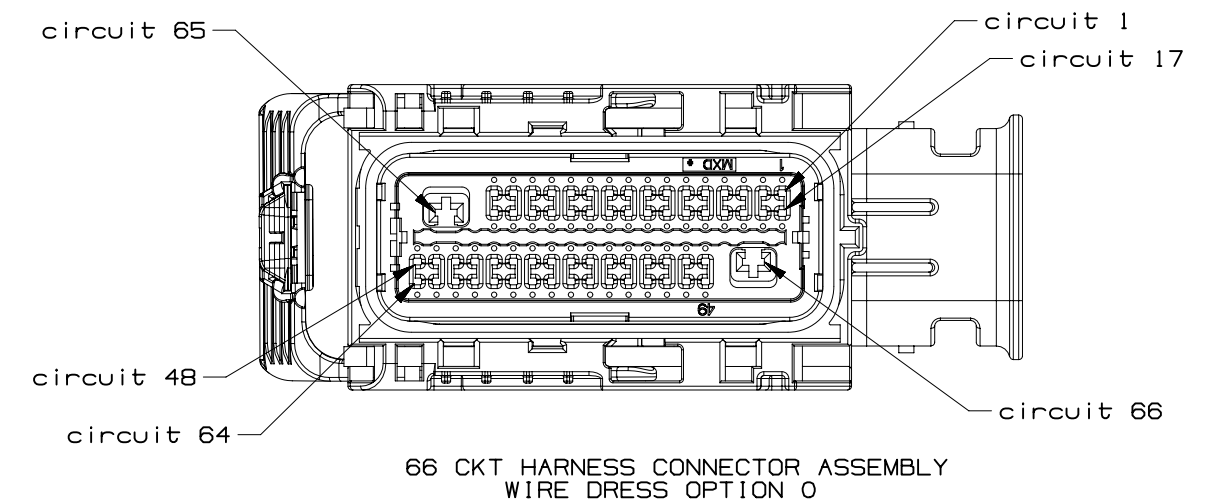
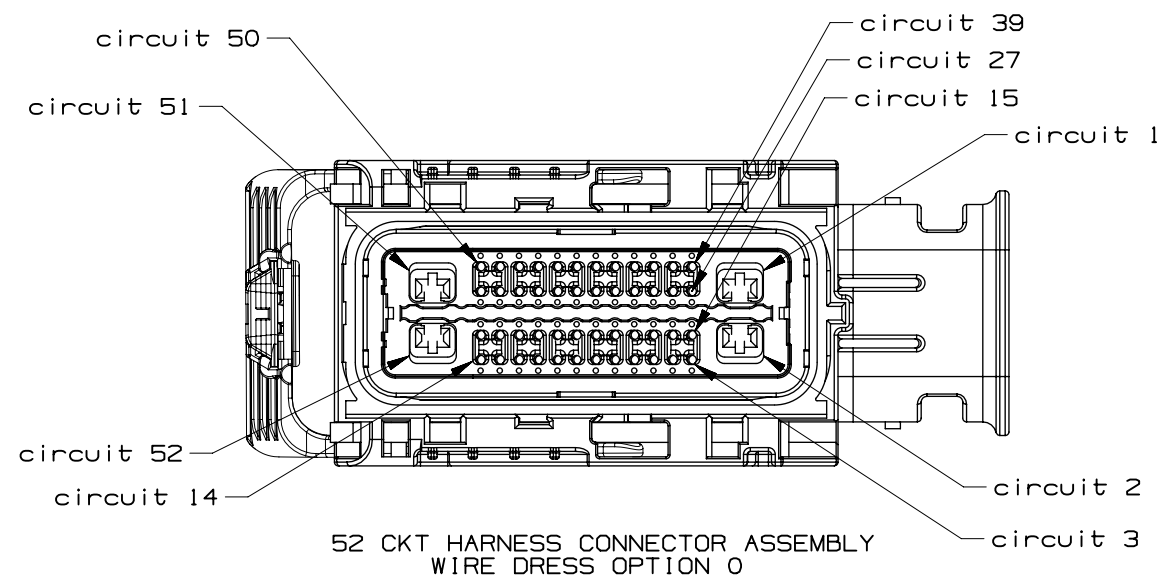


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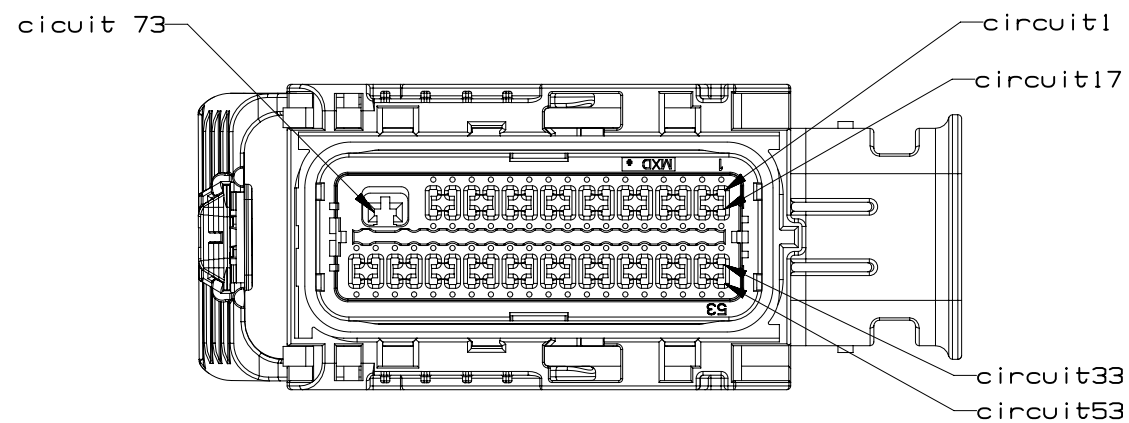
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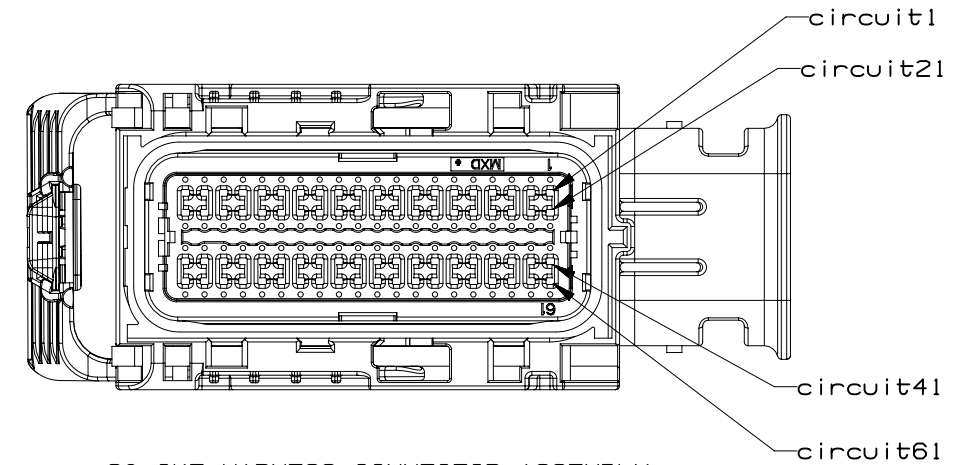
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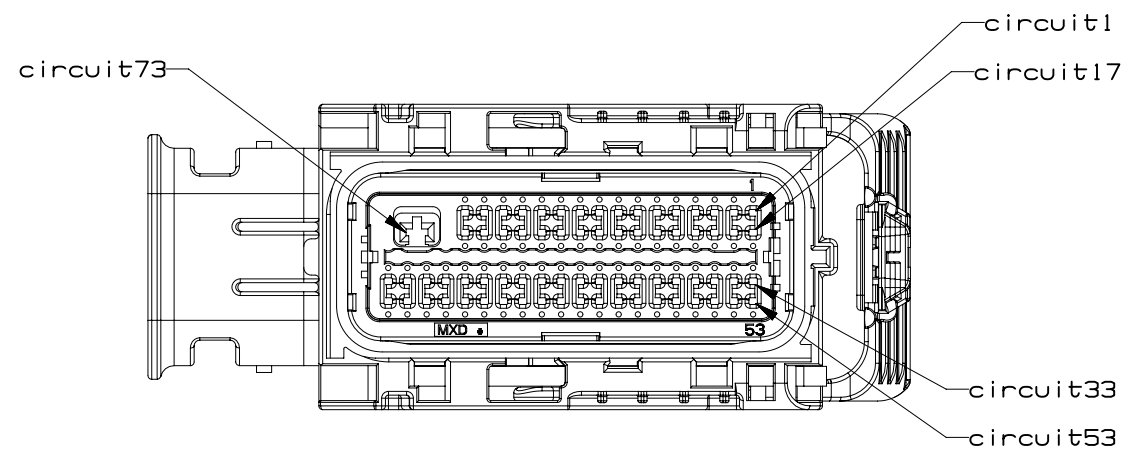


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WIRE DRESS OPTION 0

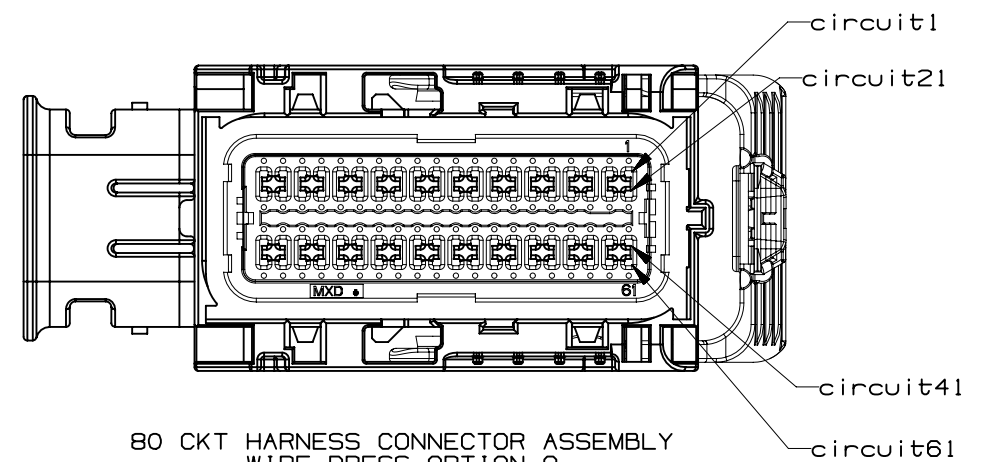


80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 0

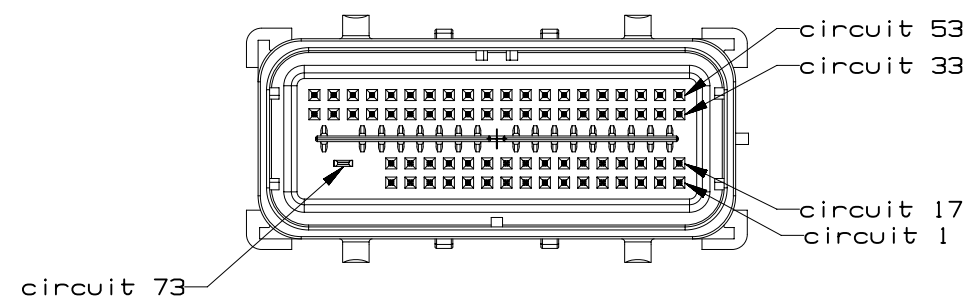
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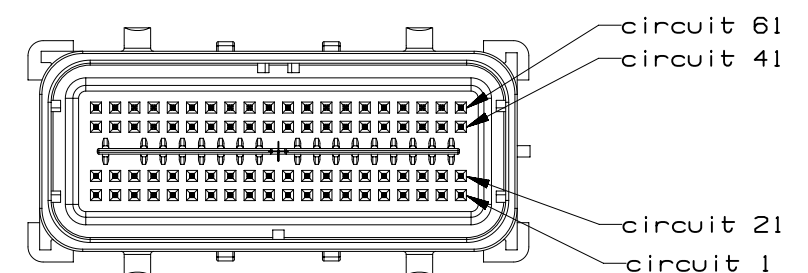
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WIRE DRESS OPTION 9



80 CKT HARNESS CONNECTOR ASSEMBLY
WIRE DRESS OPTION 9

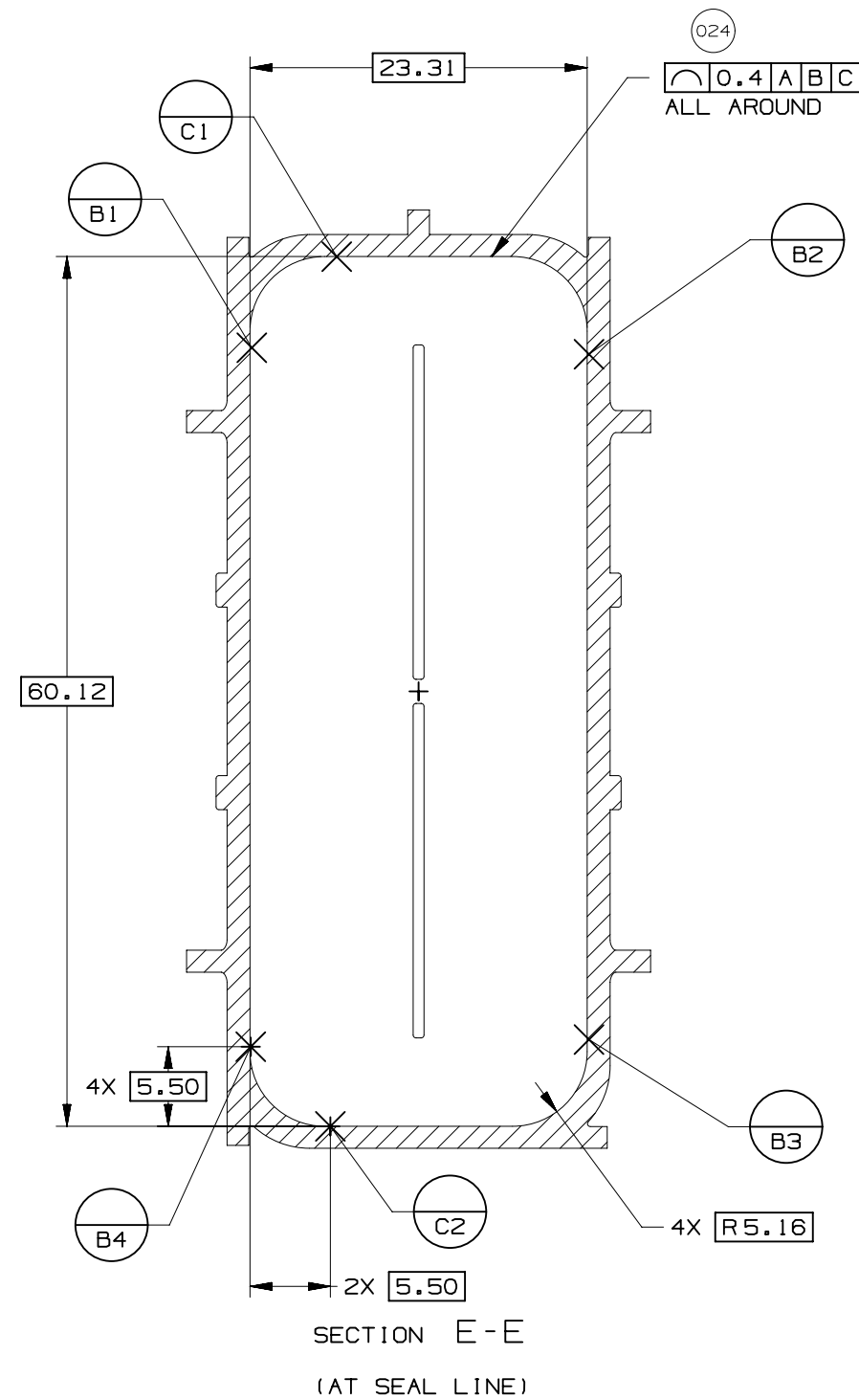
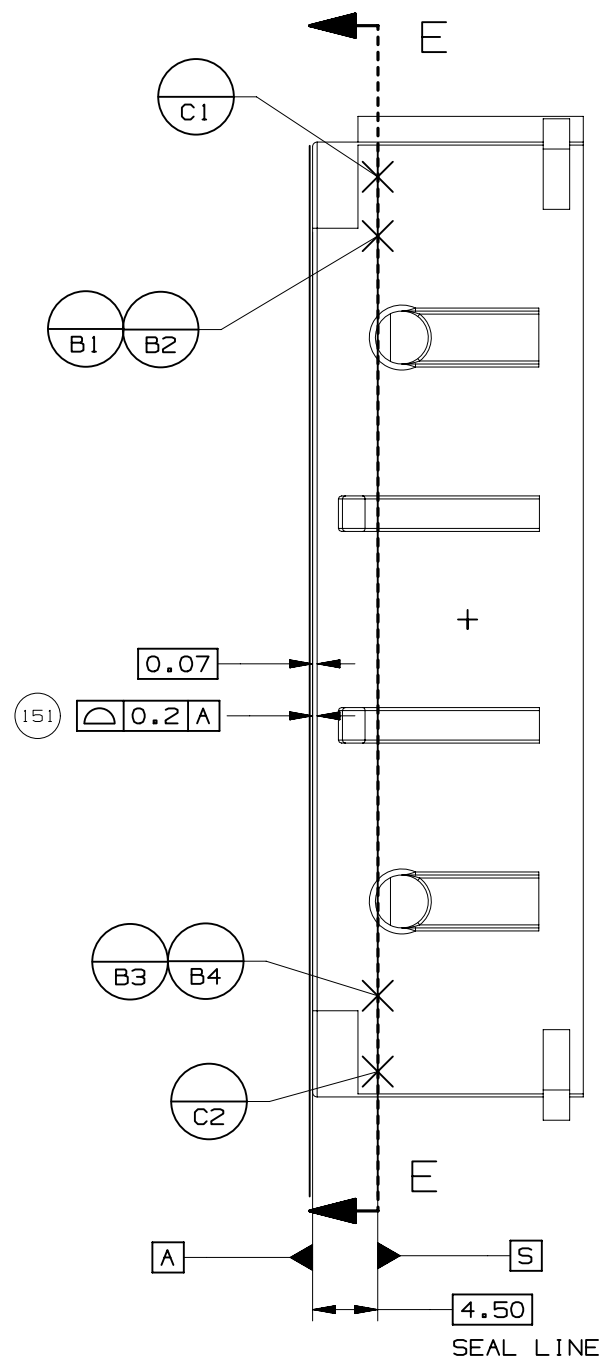
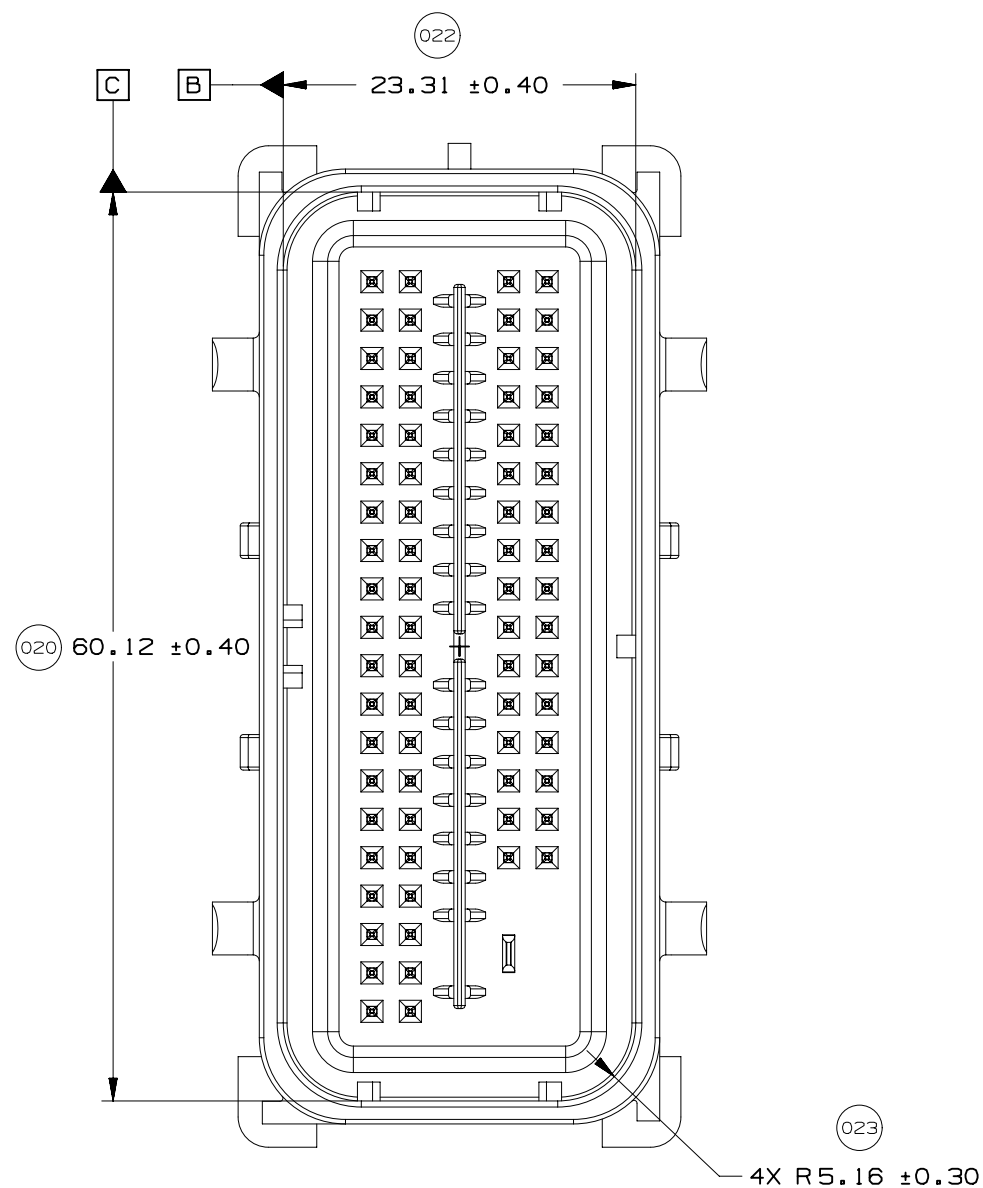
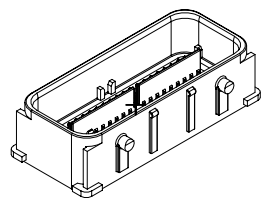


73 CKT COMPONENT CONNECTOR INTERFACE



80 CKT COMPONENT CONNECTOR INTERFACE





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

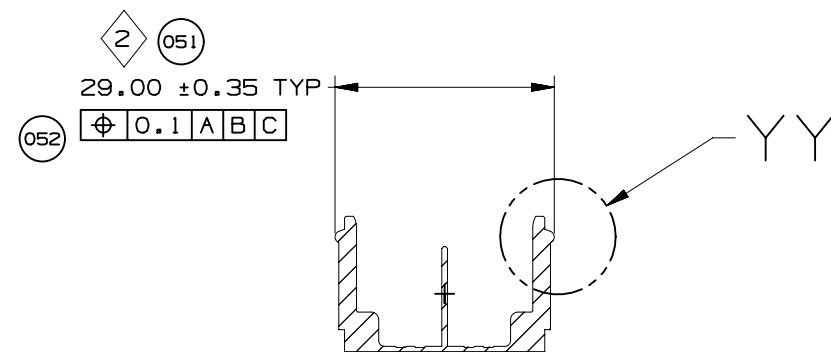
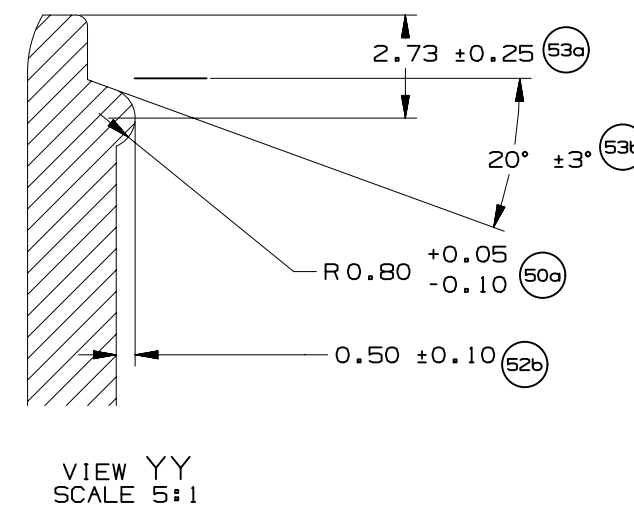
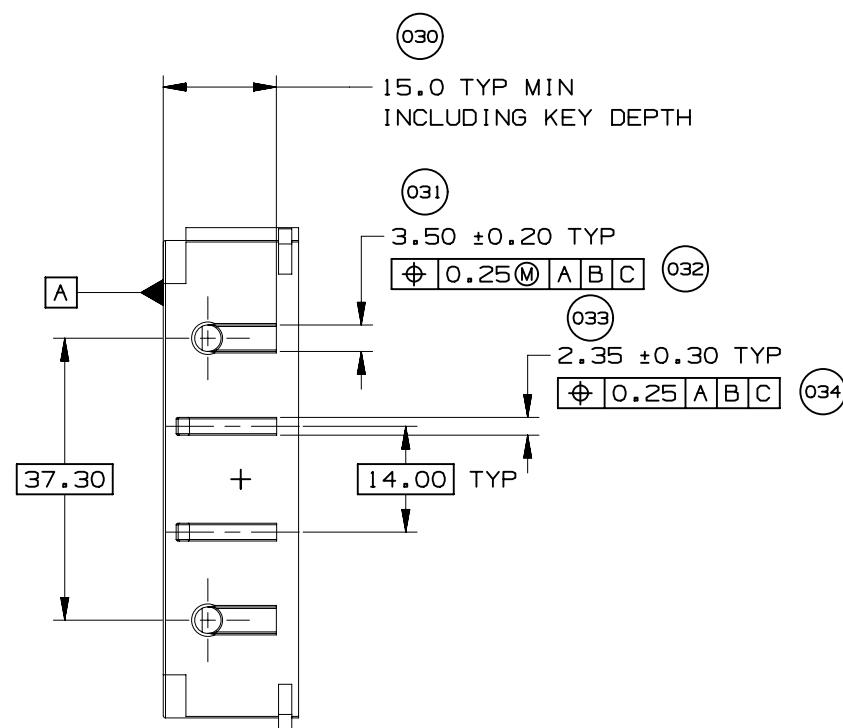
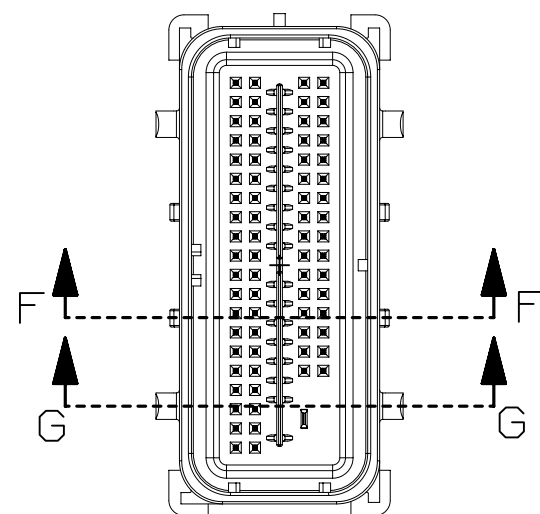


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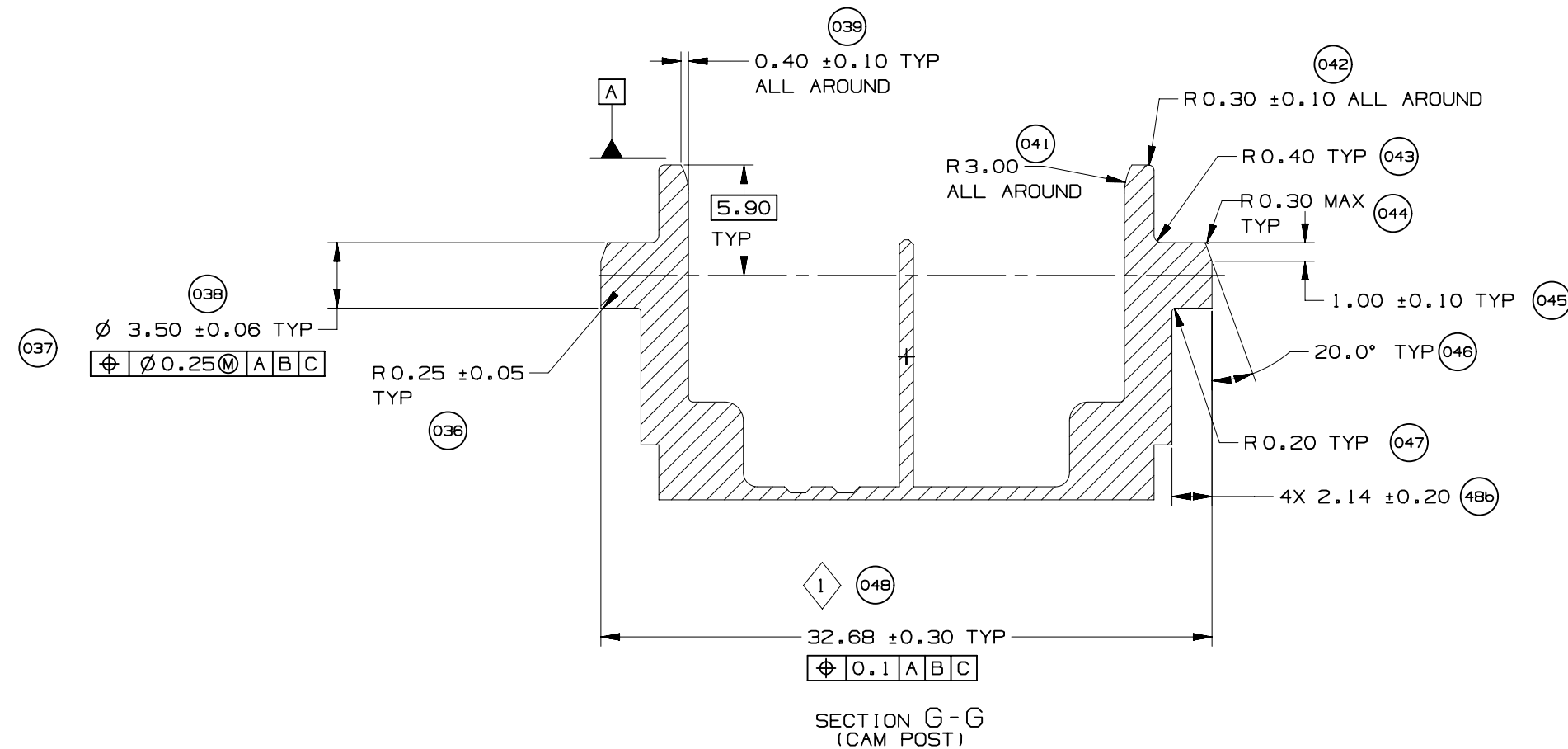
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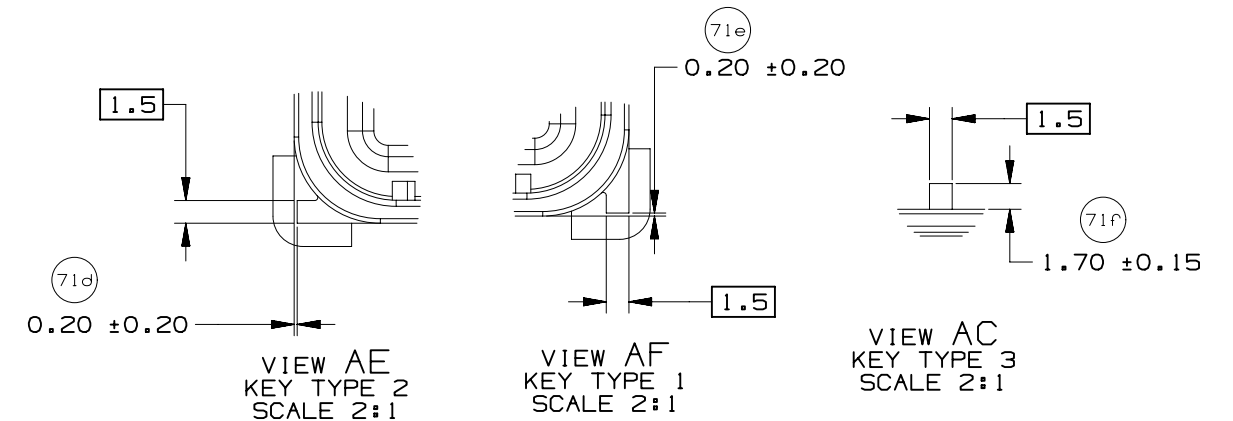
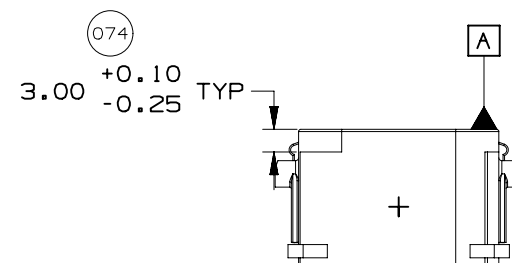
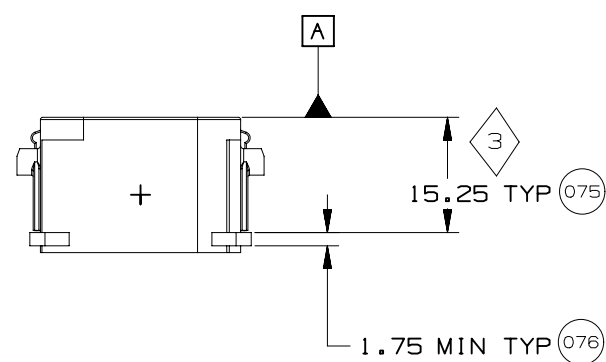
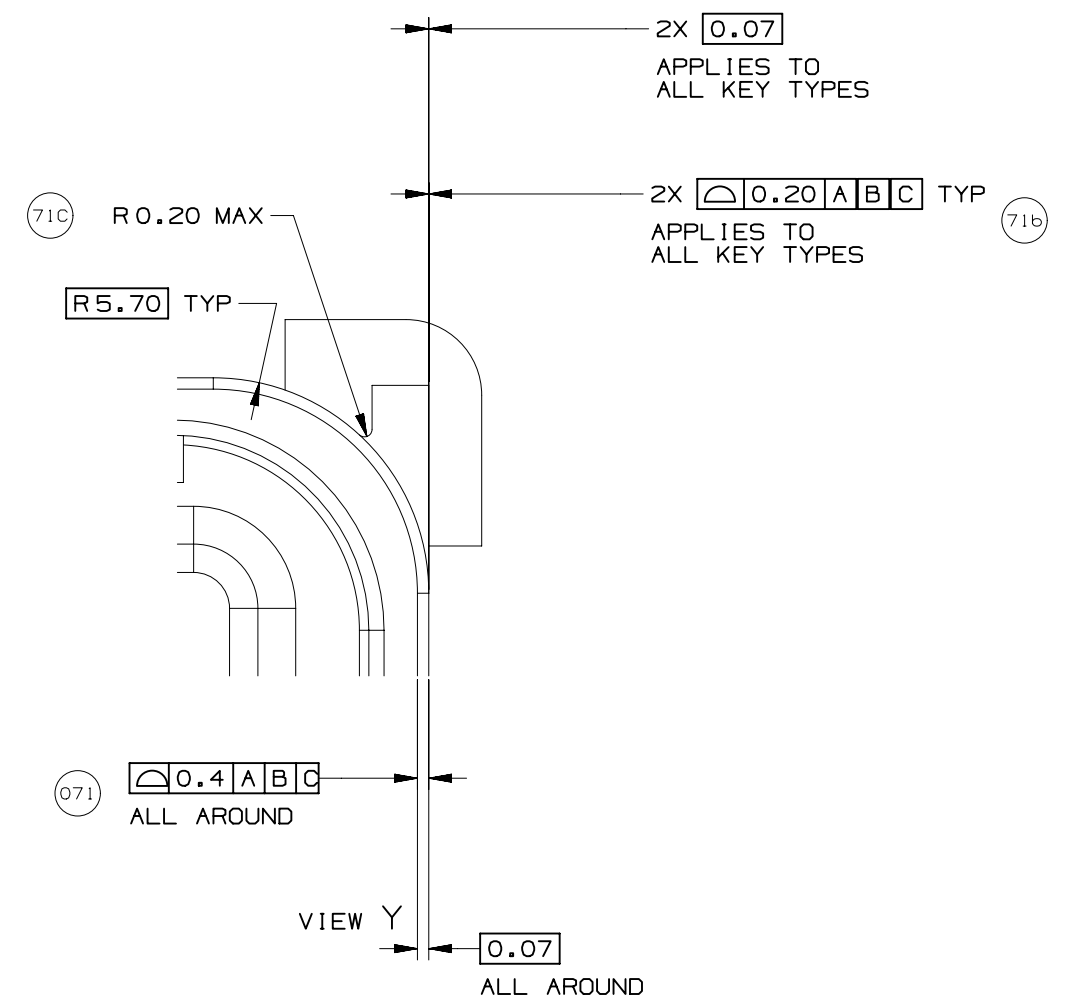
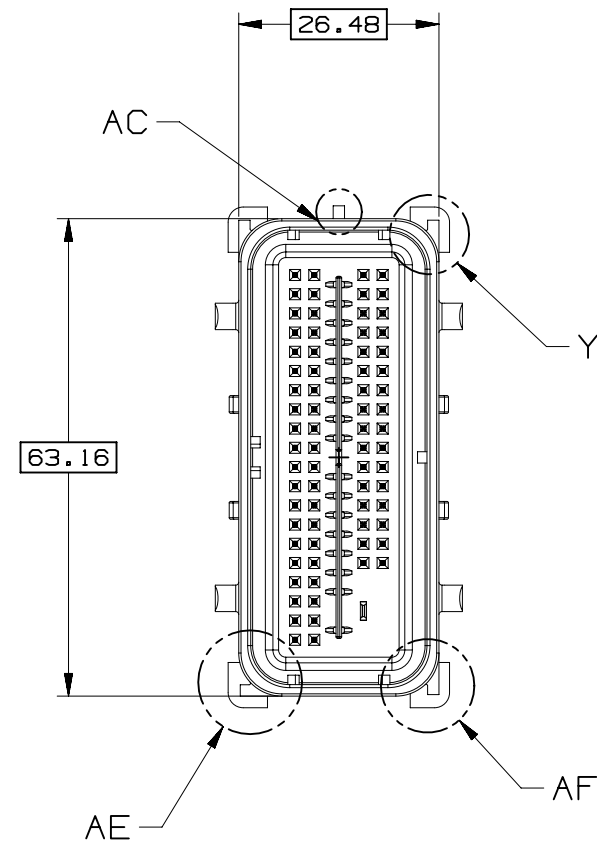
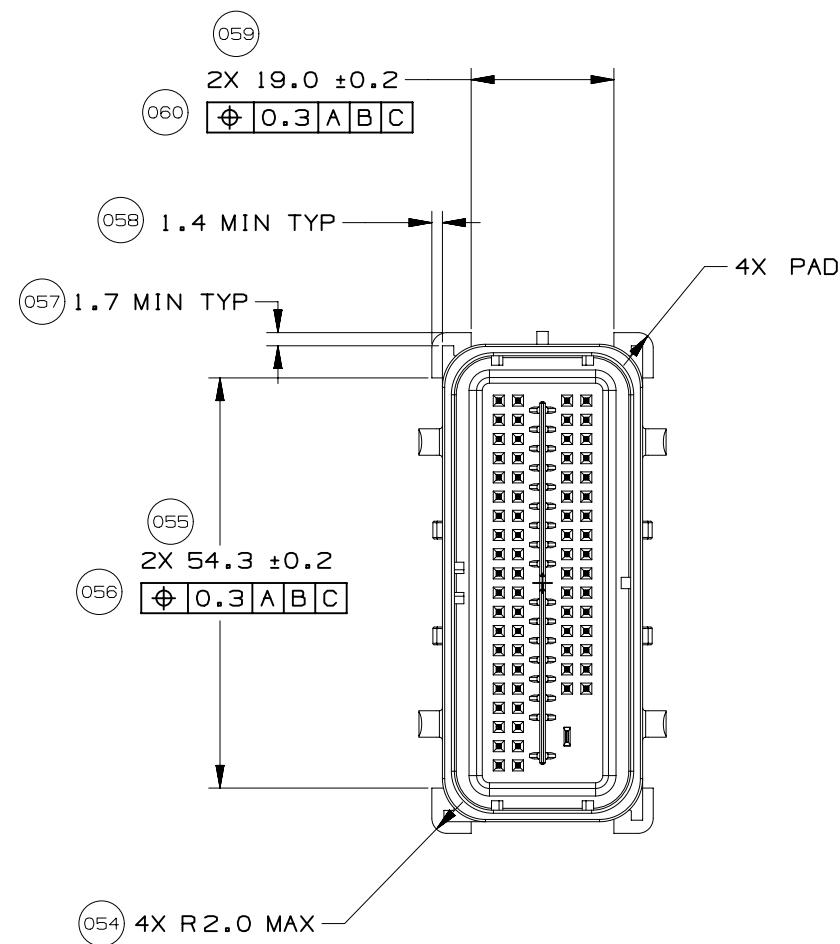
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ST	REV	PD1
R	001	

PAGE NUMBER
15 OF 22



SECTION F-F
(RELEASE FEATURE)

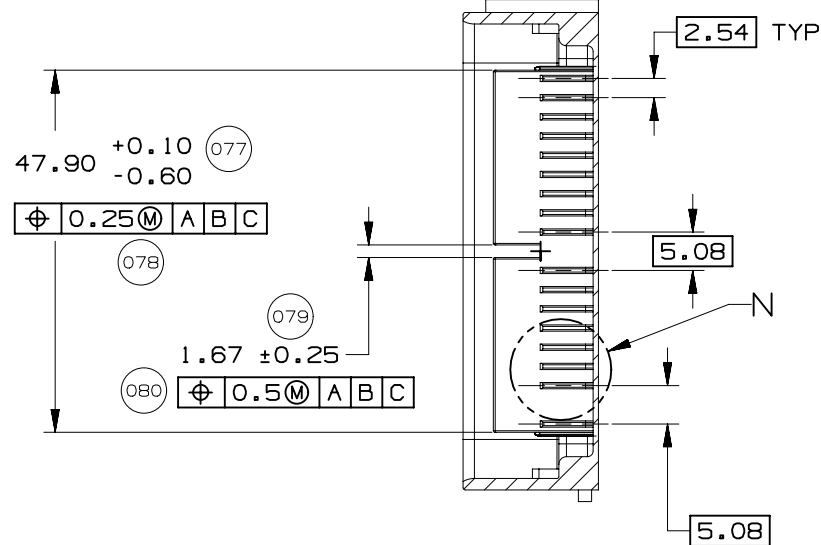
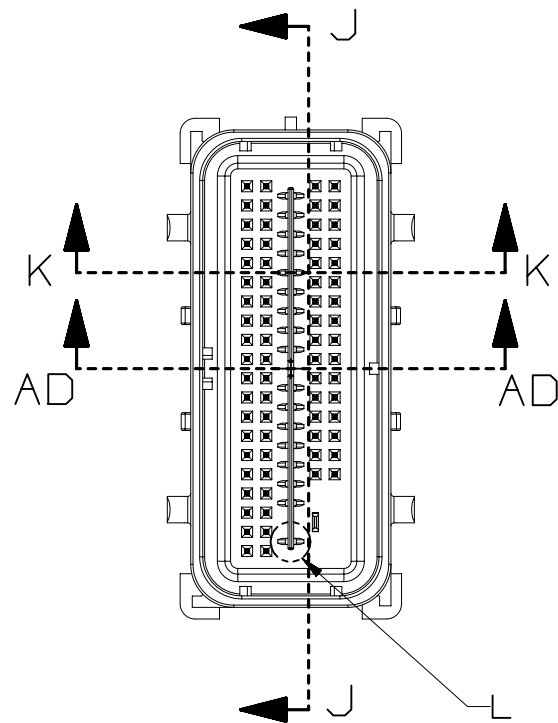




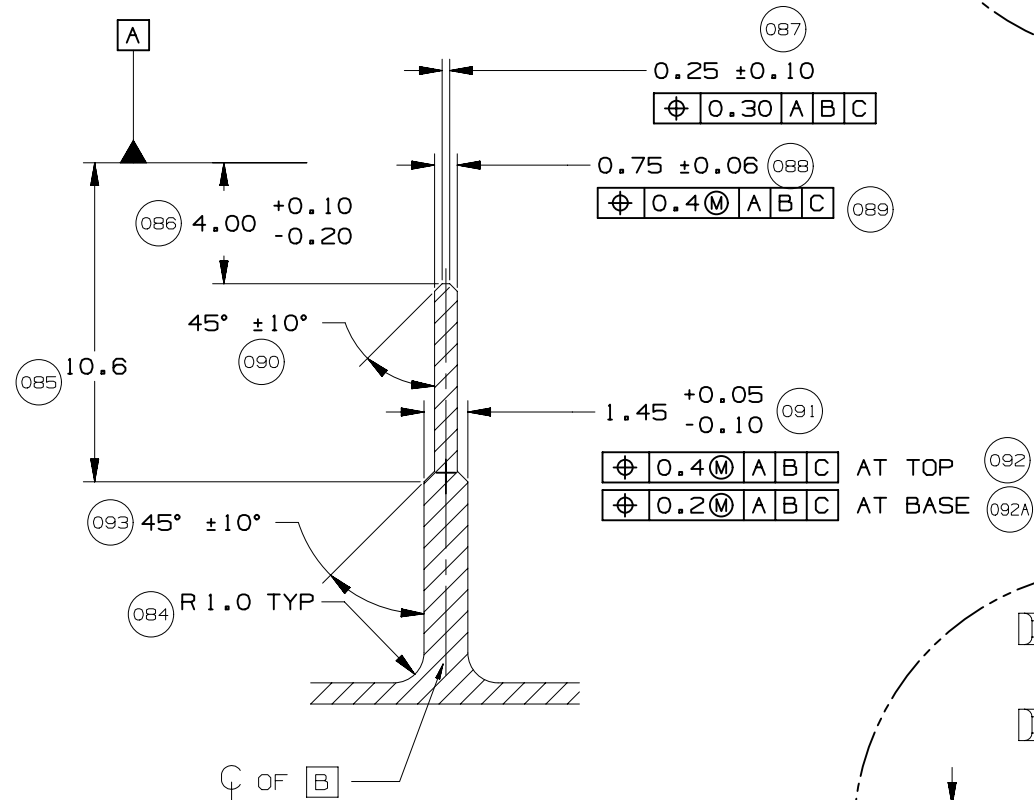
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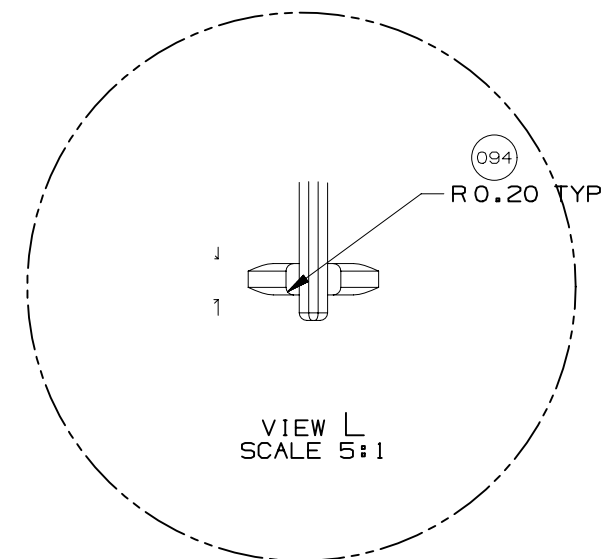
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ST	REV	PD1	17	OF 22
R	001			



SECTION J-J

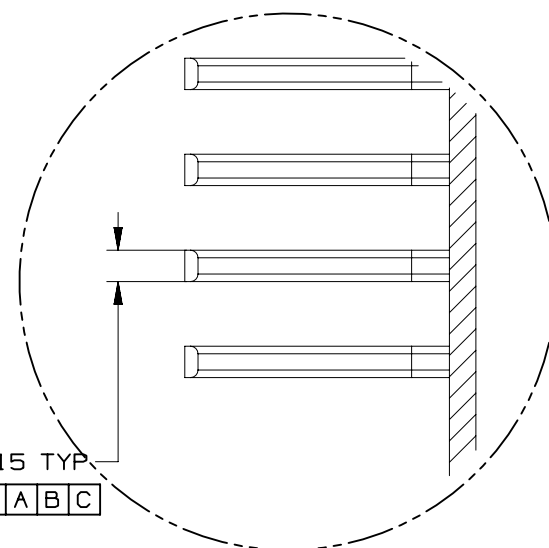


DETAIL M
TYPICAL
SCALE 4:1



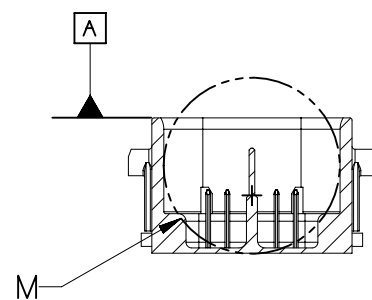
VIEW L
SCALE 5:1

0.25 ±0.10
0.75 ±0.06
0.4 (M)
0.2 (M)
AT TOP
AT BASE

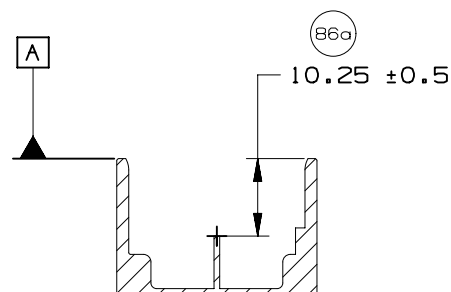


DETAIL N
SCALE 5:1

0.83 ±0.15 TYP
0.5 (M)

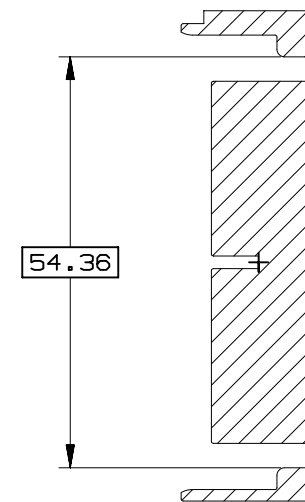
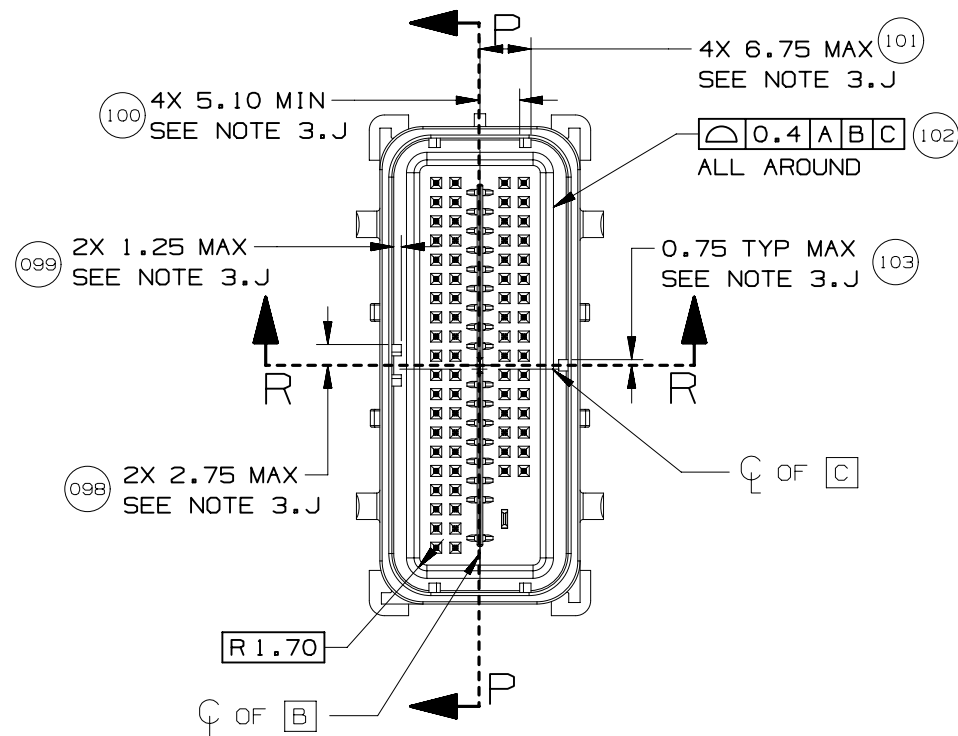


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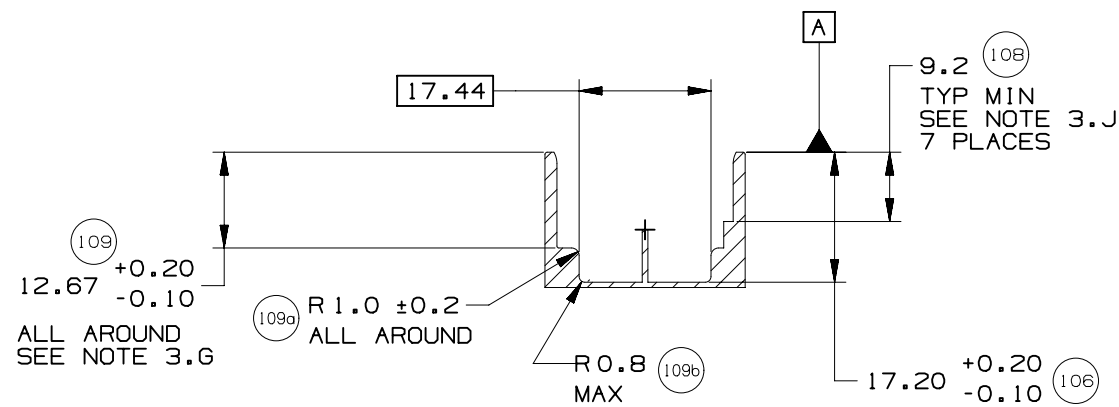


SECTION AD-AD





SECTION P-P



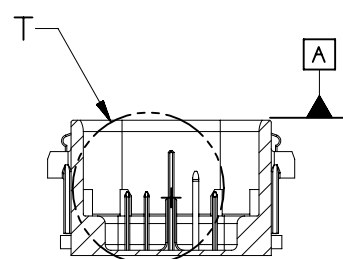
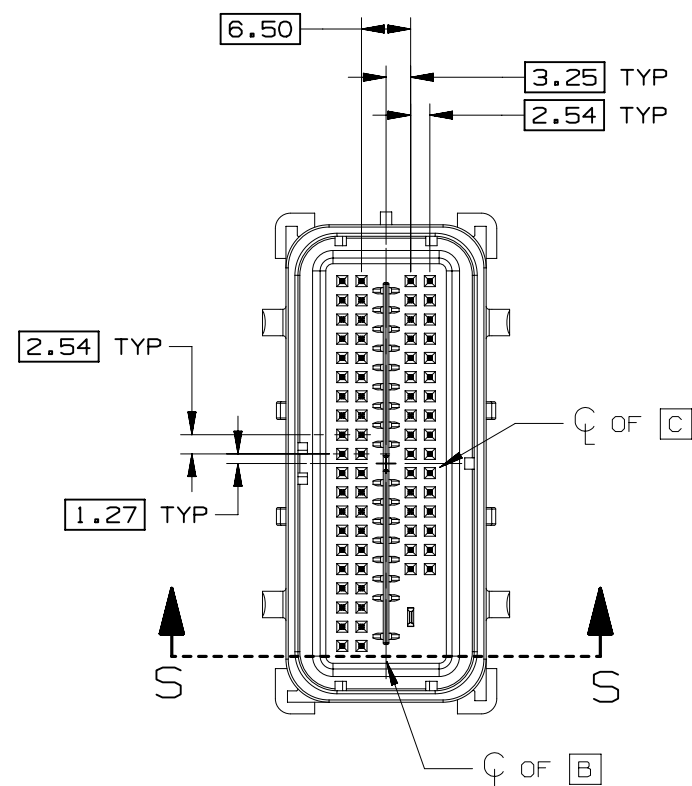
SECTION R-R



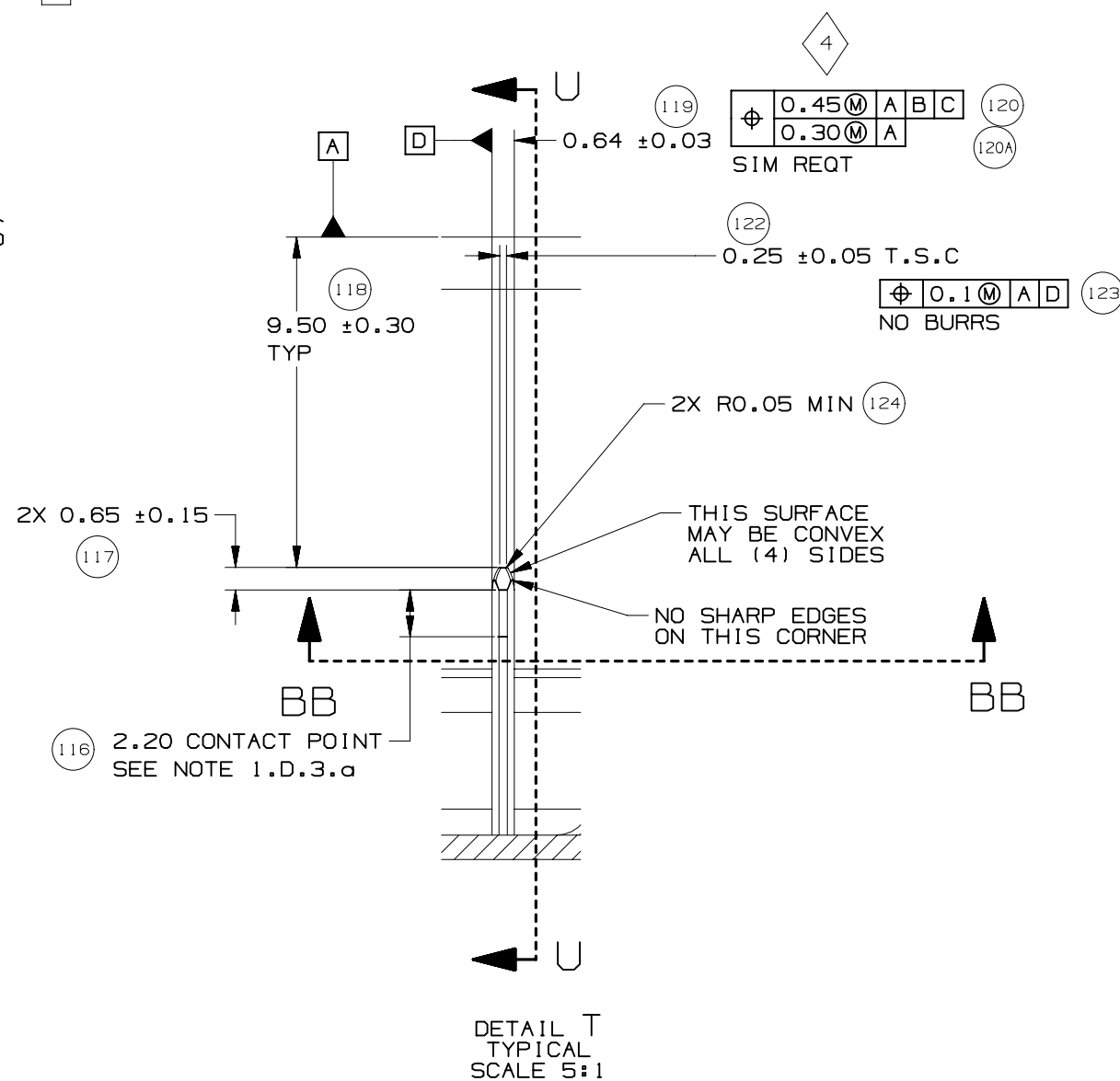
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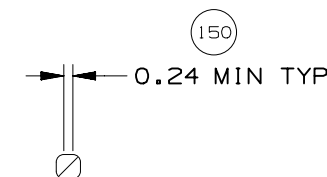
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ST	REV	PD1	19	OF 22
R	001			



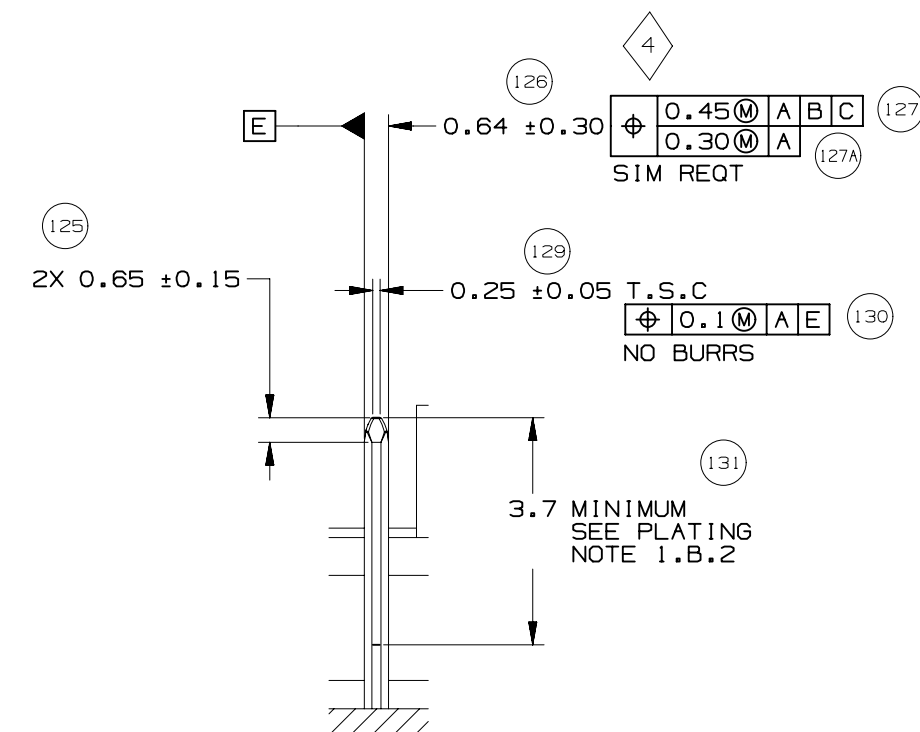
SECTION S-S



DETAIL T
TYPICAL
SCALE 5:1

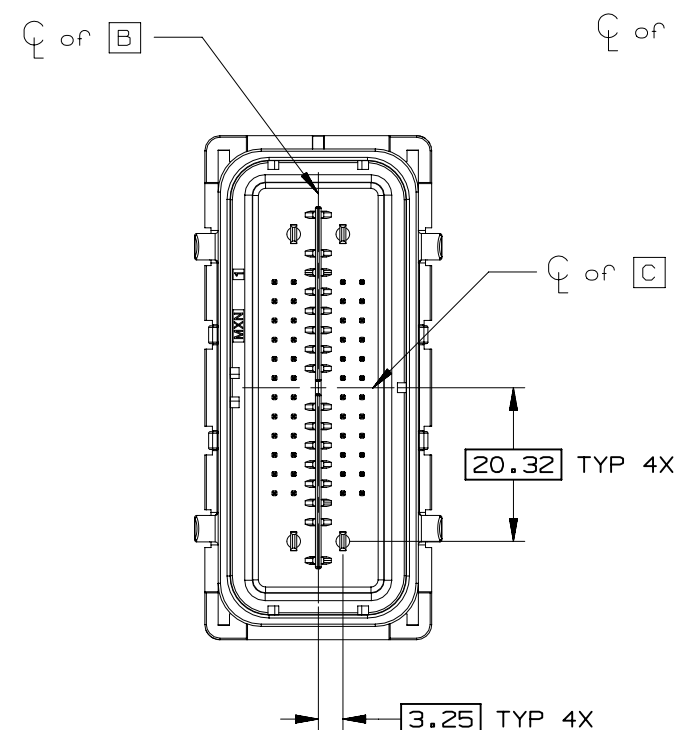


SECTION BB-BB

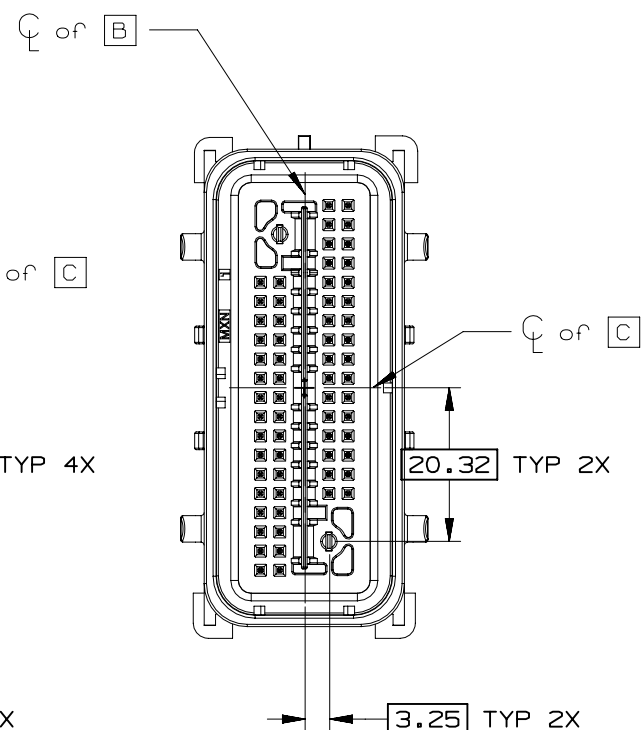


SECTION U-U
TYPICAL

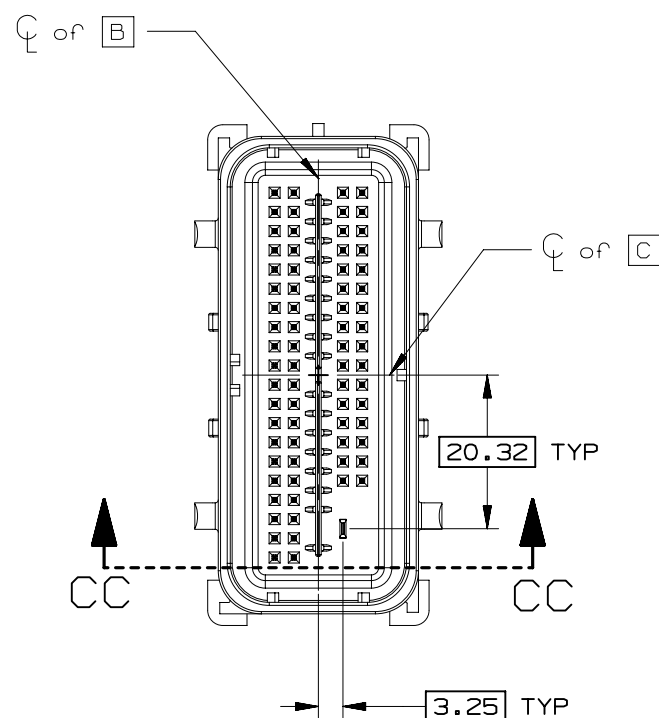




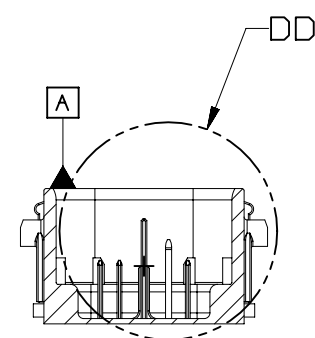
52 CKT COMPONENT
CONNECTOR INTERFACE



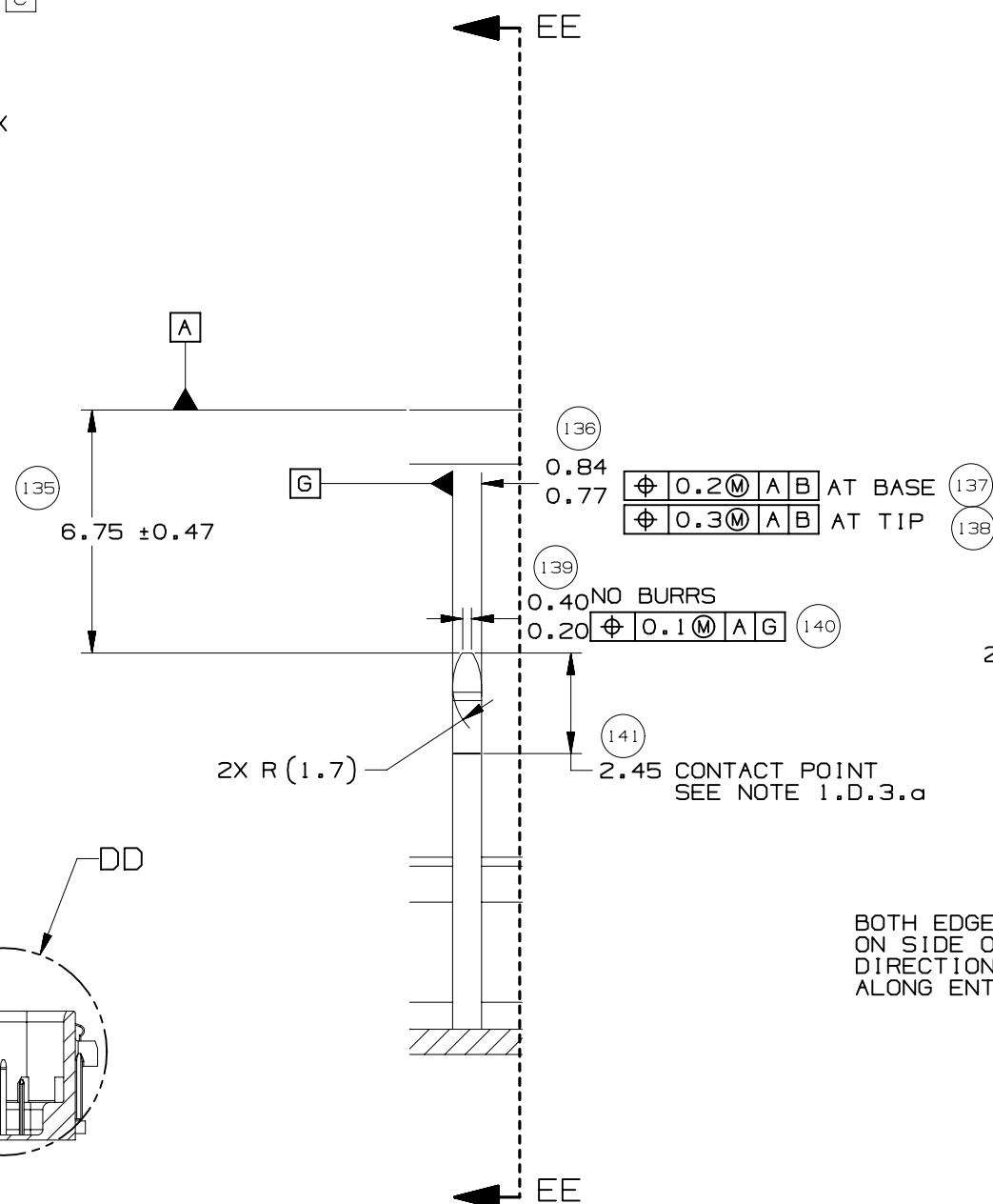
66 CKT COMPONENT
CONNECTOR INTERFACE



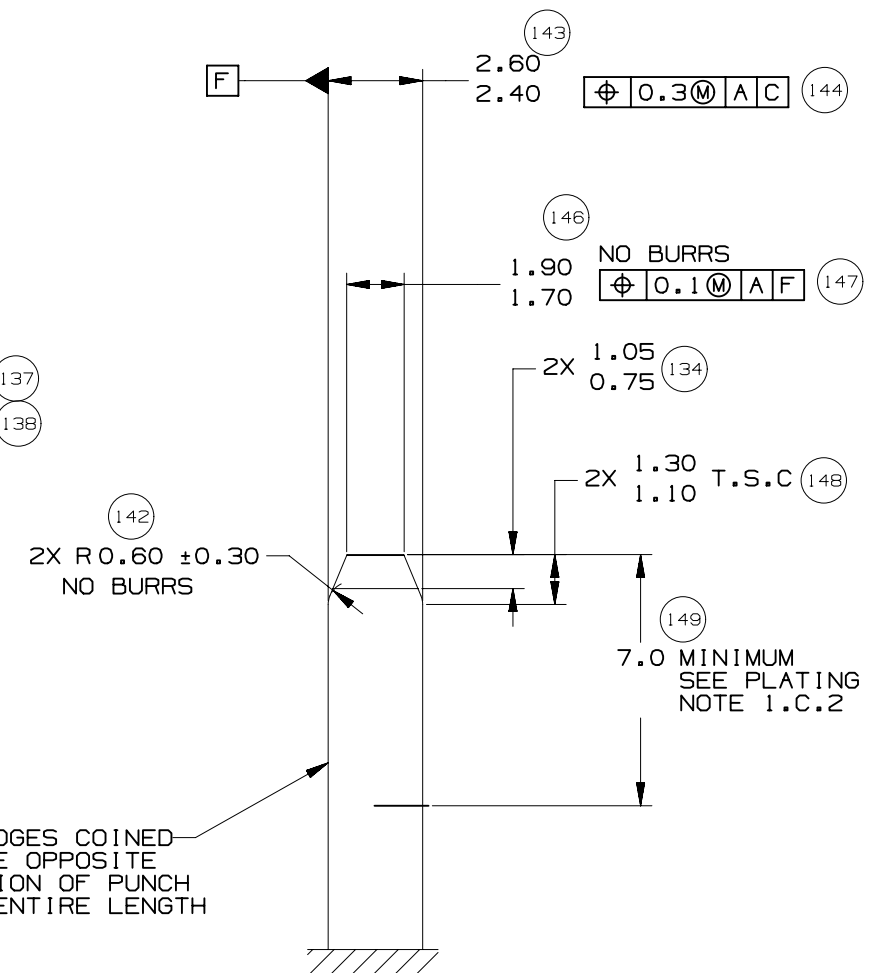
73 CKT COMPONENT
CONNECTOR INTERFACE



SECTION CC-CC



DETAIL DD
TYPICAL
SCALE 5:1



SECTION EE-EE
TYPICAL



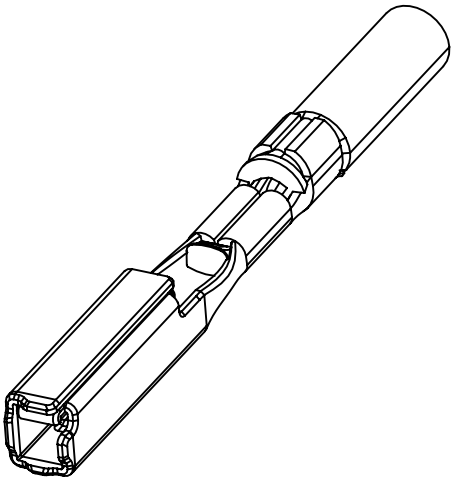
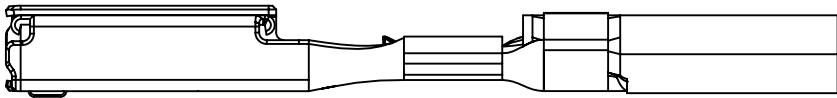
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DWG STATUS		
ST	REV	PD1
R	001	

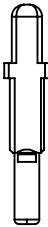
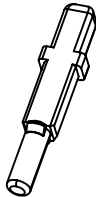
PAGE NUMBER
21 OF 22

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	

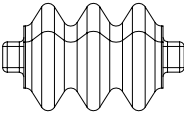
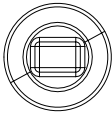


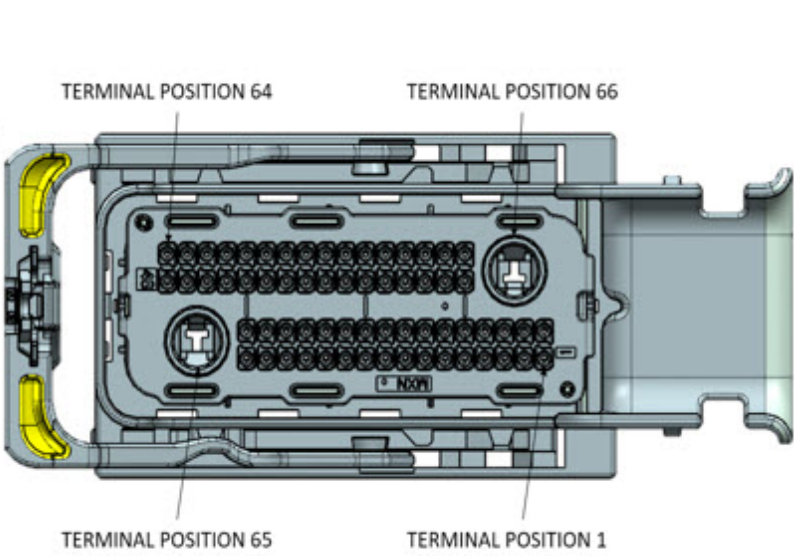
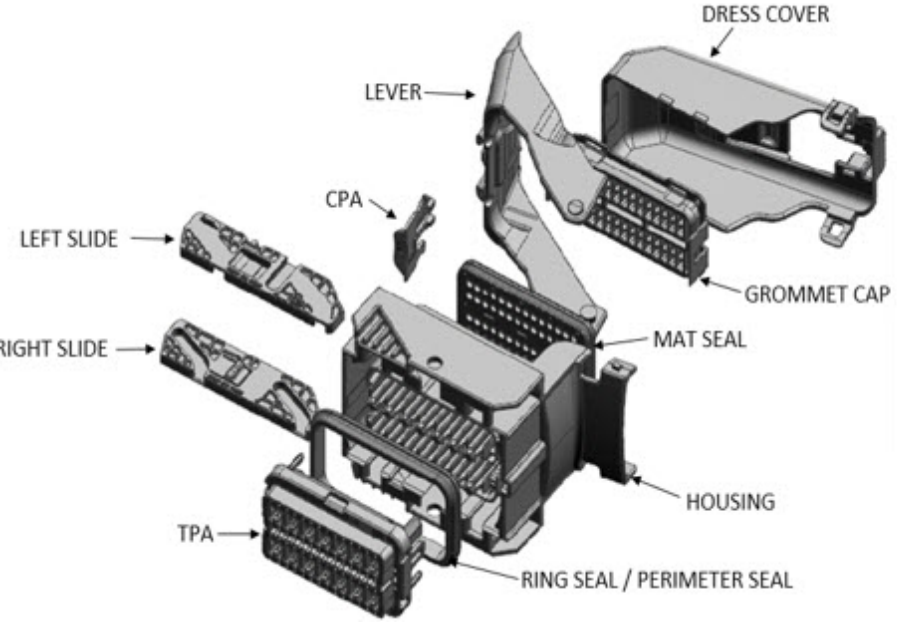
CAVITY PLUGS									
ITEM	MFG	MFG P/N	GM P/N RD	SIZE	COLOR	MFG DRAWING	PROD SPEC	APP SPEC	COMMENTS
1	MOLEX	34586-0001	12674820	0.64	NATURAL	SD-34586-001	PS-34566-0000	AS-34566-001	
2	YAZAKI	7158-3114-90	12674821	2.8	BLUE	7158-3114-90	YPES-11-04-062	YPES-15-299	

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 ALL 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 ALL 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
RS	SLIDE - RIGHT	BLACK	PBT W/PTFE, G.F. 30%
LS	SLIDE - LEFT	BLACK	PBT W/PTFE, G.F. 30%
CVR BLACK	DRESS COVER BLACK	BLACK	PBT, G.F. 30%
CVR GRAY	DRESS COVER GRAY	GRAY	PBT, G.F. 30%
CVR BLUE	DRESS COVER BLUE	BLUE	PBT, G.F. 30%
CVR BROWN	DRESS COVER BROWN	BROWN	PBT, G.F. 30%
CVR GREEN	DRESS COVER GREEN	GREEN	PBT, G.F. 30%
CVR NATURAL	DRESS COVER NATURAL	NATURAL	PBT, G.F. 30%
CVR YELLOW	DRESS COVER YELLOW	YELLOW	PBT, G.F. 30%
CPA	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 INFORMATION 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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/66	348220013	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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DATE 01/21/2025

DOCUMENT NO. 348226601

REVISION BP

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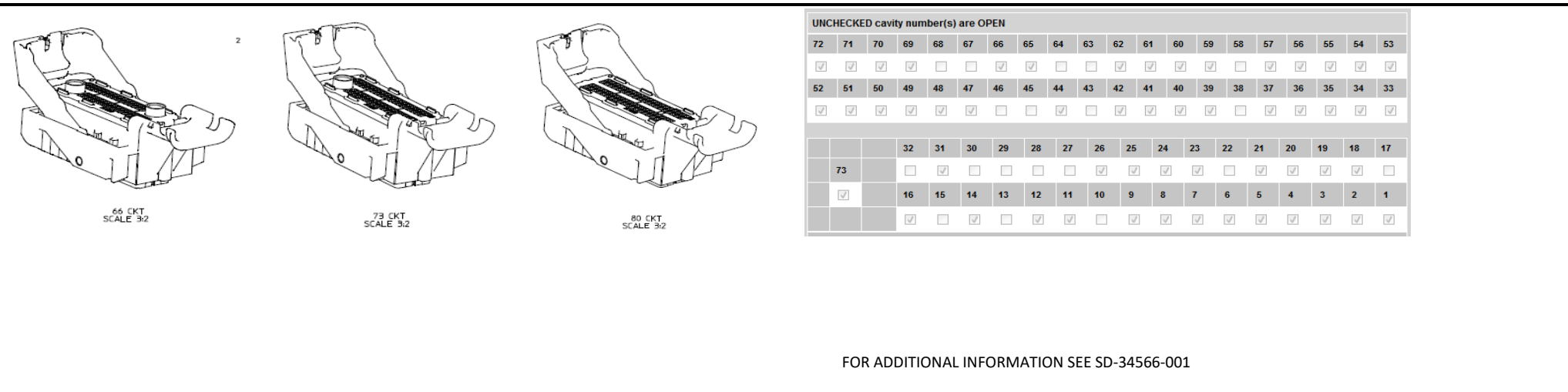


MX123 SEALED RCPT ASSY (66 Ckt)

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 SEPARATELY							
											CAVITY WITH A NUMBER INDICATES BLOCKED TERMINAL POSITION CAVITY WITHOUT A NUMBER INDICATES OPEN TERMINAL POSITION																			DRESS COVER							
MX123 CONN ASSY 66 CKT BLU OPT0 KEY C/50	348220953	C-HSG-C0	G-CAP-0-P	TPA-C0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	62	61	-	-	58	-	-	-	54	-	-	-	-	-	-	SALEABLE		345650003							
											-	-	-	-	44	43	-	41	40	-	-	37	-	-	-	-					21	20	19	-	-		
											-				-	31	-	-	-	-	-	-	-	-	-	-	-									-	-
											-				-	15	-	-	-	-	-	-	-	-	-	-	-				-	5	4	-	-	-	
MX123 CONN ASSY 66 CKT BLK OPT9 KEY A/33	348220963	C-HSG-A9	G-CAP-9-P	TPA-A9	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	-	-	-	-	58	57	56	55	-	-	52	51	50	-	-	SALEABLE		345650003							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-					-	-	-	-	-	-	-
											-				32	-	30	29	-	27	26	25	-	23	-	-	-										
											-				16	-	-	-	-	12	11	10	9	-	-	6	5				-	-	-	-	-	-	-
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/37	348220973	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	64	63	62	61	-	-	-	-	-	-	-	-	52	-	-	49	-	SALEABLE		345650003							
											48	47	46	45	-	43	42	-	40	39	38	-	-	-	-	-					21	20	-	18	17		
											-				32	-	-	-	-	-	-	25	-	-	-	21	20									-	18
											-				-	-	-	-	12	-	10	-	-	7	-	5	4				3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/34	348220983	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	64	63	62	61	60	-	-	57	-	-	-	-	52	51	-	49	-	SALEABLE		345650003							
											48	47	46	45	-	-	-	-	40	-	-	-	-	-	-	-					21	20	19	18	17		
											-				32	-	30	29	-	27	-	-	-	-	22	21	20									19	18
											-				-	-	-	-	12	11	10	-	-	-	-	5	4				3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/40	348220993	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	64	-	-	-	-	-	-	-	-	-	54	53	-	-	-	49	-	SALEABLE		345650003							
											-	-	-	-	-	-	-	-	-	-	38	37	36	35	34	33					20	19	18	17			
											-				-	-	-	-	28	-	-	-	-	-	22	-	20								19	18	17
											-				-	15	14	13	12	-	-	9	-	7	-	-	4				3	2	1				
MX123 CONN ASSY 66 CKT BLK OPT0 KEY A/30	348221003	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	-	-	62	61	60	59	58	57	56	55	-	-	52	-	50	-	-	SALEABLE		345650003							
											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/32	348221013	C-HSG-A0	G-CAP-0-P	TPA-A0	RS	LS	MAL	CPA	MSEAL	RSEAL	64	-	-	-	-	-	58	57	56	55	-	-	52	51	50	-	-	SALEABLE		345650003							
											48	47	46	45	44	43	42	41	40	39	-	-	36	-	34	-					-	-	-	-	-		
											-				32	-	30	29	-	27	26	25	-	23	-	-	-									-	-
											-				16	-	-	-	12	11	10	9	-	-	6	5	-				-	-	-				

MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET



STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																							
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS Fp																							
		NUMBER																											
SALEABLE	12672860	34566-0103	0	A	BLACK																								
SALEABLE	12672862	34566-0203	0	B	ST GRY	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53				
SALEABLE	12672864	34566-0303	0	C	BLUE	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33				
TOOL DES. REL.	12615660	34566-0403	0	D	BROWN	73				32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17				
TOOL DES. REL.	12615661	34566-0503	0	E	GREEN					16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
SALEABLE	12672866	34566-0603	0	F	NATURAL																								
SALEABLE	12672872	34566-0703	0	G	BLUE																								
SALEABLE	12672870	34566-0803	0	H	ST GRY	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61				
TOOL DES. REL.	12672868	34566-0903	0	J	BLACK	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79				
TOOL DES. REL.	TBD	34566-1003	0	K	BROWN	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21				
TOOL DES. REL.	TBD	34566-1103	0	L	GREEN	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
TOOL DES. REL.	TBD	34566-1203	0	M	NATURAL																								
SALEABLE	12672861	34566-1303	9	A	BLACK																								
SALEABLE	12672863	34566-1403	9	B	ST GRY	72	71	70	69	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53				
SALEABLE	12672865	34566-1503	9	C	BLUE	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33				
TOOL DES. REL.	12615663	34566-1603	9	D	BROWN	73				32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17				
TOOL DES. REL.	12615664	34566-1703	9	E	GREEN					16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
SALEABLE	12672867	34566-1803	9	F	NATURAL																								
SALEABLE	12672873	34566-1903	9	G	BLUE																								
SALEABLE	12672871	34566-2003	9	H	ST GRY	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61				
TOOL DES. REL.	12672869	34566-2103	9	J	BLACK	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79				
TOOL DES. REL.	TBD	34566-2203	9	K	BROWN	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21				
TOOL DES. REL.	TBD	34566-2303	9	L	GREEN	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1				
TOOL DES. REL.	TBD	34566-2403	9	M	NATURAL																								
SALEABLE	12672856	34822-0013	0	A	BLACK	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	66							
						48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33								
SALEABLE	12672858	34822-0033	0	C	BLUE																								



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																				
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																				
		NUMBER																								
SALEABLE	NOT APPLICABLE	34566-4233	0	B	ST GRY				69				65	64	63											
									49				45	44	43											
						73								12	11		9		7	6	5	4	3		18	
SALEABLE	NOT APPLICABLE	34566-4243	0	A	BLACK												61				58	57	56			
							51	50			47	46									38	37	36			
						73					31	30			26				22	21	20					
SALEABLE	NOT APPLICABLE	34566-4253	0	A	BLACK							65				61				58	57	56				
							51	50			47	46	45							38	37	36				
						73					31	30			26				22	21	20					
SALEABLE	NOT APPLICABLE	34566-4263	0	B	ST GRY	72	71	70	69	68			65	64		62	61	60						54		
						52	51				47	46		44		42	41	40								
						73				32	31	30		28		26	25	24				20	19		17	
SALEABLE	NOT APPLICABLE	34566-4273	0	B	ST GRY								12	11		10	9						2	1		
						72	71	70	69	68	67	66	65	64		62	61	60							54	
						52	51				47		45	44		42	41	40								
SALEABLE	NOT APPLICABLE	34566-4283	0	A	BLACK				70	69					63	62	61	60			57	56	55	54	53	
						52	51		49					44	43	42	41				37	36		34		
						73				32			29	28	27	26		23				19	18			
SALEABLE	NOT APPLICABLE	34566-4293	0	B	ST GRY						67	66			63				59	58	57	56	55		53	
								50	49	48			45		43			39	38	37	36	35	34	33		
						73				16	15	14	13				8	7	6	5	4	3				
SALEABLE	NOT APPLICABLE	34566-4313	0	B	ST GRY									63				59	58	57	56	55		53		
								50	49	48		46		43			39	38	37	36	35	34	33			
						73				16	15	14	13					7	6	5	4	3		18		
SALEABLE	NOT APPLICABLE	34566-4323	0	B	ST GRY	72		70		68		66					60	59				55	54	53		
						52		50		48		46				40	39				35	34	33			
						73				32	31	30	29	28	27	26	25	24				19	18	17		
SALEABLE	NOT APPLICABLE	34566-4333	0	A	BLACK						67			64	63			60	59			56	55	54	53	
						52	51		49		47		45	44	43	42	41			38		36		34		
						73				32		30		28		26	25		23				19	18		
SALEABLE	NOT APPLICABLE	34566-4343	0	A	BLACK									64	63			60	59	58		56	55	54	53	
						52	51		49		47		45	44	43	42	41			38		36		34		
						73				32		30		28		26	25					19	18			
SALEABLE	NOT APPLICABLE	34566-4353	0	C	BLUE				70		68				63	62			59	58	57				53	
						52	51			48	47			44		42		40	39					34	33	
						73				32		30			26	25		23	22	21	20			17		
SALEABLE	NOT APPLICABLE	34566-4363	0	A	BLACK				70	69					63	62	61	60			58	57	56	55	54	53
						52	51		49					44	43	42	41				37	36		34		
						73				32			29	28	27	26			23				19	18		
SALEABLE	NOT APPLICABLE	34566-4373	0	A	BLACK				70	69					63					58		56		54		
						52	51		49		47			44	43	42	41	40				36		34		
						73				32				28		26						19	18	17		
SALEABLE	NOT APPLICABLE	34566-4383	0	H	ST GRY		79						74	73	72	71		69	68	67			64		62	61
							59					54		52			49	48	47					42	41	
									38				33				29		27		25					
SALEABLE	NOT APPLICABLE	34566-4383	0	H	ST GRY				18			15	14			11	10	9	8	7						
						73																				



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																	
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION Fp	COLOR OPTION Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS																	
		NUMBER				Fp																	
SALEABLE	NOT APPLICABLE	34566-8323	9	A	BLACK		71	70	69	68	67	66	65		63		60						53
								50	49		47			44		42		39	38		36		33
						73					31			28		26		24	23	22	21		17
												14		12				8	7	6	5		1
SALEABLE	NOT APPLICABLE	34566-8333	9	A	BLACK		71	70	69	68	67	66	65		63		60		58				53
								50	49	48	47			44		42	41		39	38		36	33
						73					31			28		26		24	23	22	21		17
												14		12				8	7	6	5		1
SALEABLE	NOT APPLICABLE	34566-8343	9	A	BLACK		71	70	69	68	67	66	65		63		60	59					
								50	49		47			44		42		39	38		36	35	33
						73					31			28		26		24	23	22	21		17
												14		12				8	7	6	5		1
SALEABLE	NOT APPLICABLE	34566-8353	9	A	BLACK	72								64		62	61			57	56	55	53
						52	51					46	45		43		41	40		37			
						73				32		30	29		27		25				20		
										16	15		13		11	10	9				4		
SALEABLE	NOT APPLICABLE	34566-8363	9	A	BLACK	72				68				64		62	61			57	56	55	53
						52	51					46	45		43		40		37				
						73				32		30	29		27		25				20		
										16	15	14	13		11	10	9				5	4	
SALEABLE	NOT APPLICABLE	34566-8373	9	A	BLACK	72								64		62	61		59	58	57	56	54
						52	51			48		46	45		43		41	40		37		35	34
						73				32		30	29		27		25				20		
										16	15		13		11	10	9				4	3	
SALEABLE	NOT APPLICABLE	34566-8383	9	A	BLACK	72								64		62	61		59		57	56	54
						52	51					46	45		43		40		37		35	34	
						73				32		30	29		27		25				20		
										16	15		13		11	10	9				4		
SALEABLE	NOT APPLICABLE	34566-8393	0	A	BLACK	72		70							63	62					56	55	53
						52	51		49	48					43						36	35	33
						73					31	30	29	28	27			24	23	22	21	20	17
										16	15	14	13	12		10	9	8	7	6		3	2
SALEABLE	NOT APPLICABLE	34566-8413	0	A	BLACK	72		70							63	62					56	55	53
						52	51		49	48					43						36	35	33
						73					31	30	29	28	27			24	23	22	21	20	17
										16	15	14		12		10	9	8	7	6		3	2
SALEABLE	NOT APPLICABLE	34566-8423	0	C	BLUE				69		67			64		62	61	60			57		54
						52	51	50	49	48		46	45	44		42	41			37		34	33
						73								28	27	26	25						
										16	15	14	13	12	11	10	9	8	7				
SALEABLE	NOT APPLICABLE	34566-8433	0	H	ST GRY		79	78	77	76	75	74	73				69						61
						20											9				5		1
SALEABLE	NOT APPLICABLE	34566-8443	0	C	BLUE		71	70			67	66	65	64			61	60	59	58	57		54
						52	51	50		48	47		45	44			41		39	38	37		33
						73				32				28	27		25		23			18	17
										16	15	14	13	12	11	10	9	8	7	6	5		
SALEABLE	NOT APPLICABLE	34566-8453	0	A	BLACK	72	71	70	69	68		66	65	64	63		60			57	56		54
						52	51	50	49	48		46	45	44	43	42		40	39	38	37	36	34
						73				32	31	30	29	28					23	22	21	20	
											15	14	13	12					7	6	5	4	2
SALEABLE	NOT APPLICABLE	34566-8463	0	B	ST GRY	72		70		68						62	61	60	59			55	
						52				48	47	46		44	43		41	40		38	37	36	35
						73						30							22	21	20	19	18
										16	15	14						8		6		4	1
SALEABLE	NOT APPLICABLE	34566-8473	0	C	BLUE		71	70			67	66	65	64		62	61	60		58	57		54
						52	51	50	49	48	47		45	44		42	41			38	37		33
						73				32				28	27	26	25					19	17
										16	15	14	13	12	11	10	9	8	7	6	5		



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																				
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																				
		NUMBER																								
SALEABLE	NOT APPLICABLE	34566-8483	0	A	BLACK	72	71	70	69	68		66	65	64	63		61	60			57	56		54	53	
						52	51	50	49	48		46	45	44	43	42		40	39	38	37	36		34	33	
						73				32	31	30	29	28					23	22	21	20				
					15	14	13	12						7	6	5	4				2					
SALEABLE	NOT APPLICABLE	34566-8493	0	B	ST GRY	72		70		68	67					62	61	60	59				55			
						52				48	47	46		44	43			40								33
						73						30								22	21	20	19	18	17	
				16	15	14								8		6		4								
SALEABLE	NOT APPLICABLE	34566-8513	9	A	BLACK	72	71	70	69	68		66	65	64	63		61	60			57	56		54	53	
						52	51	50	49	48		46	45	44	43			40	39	38	37	36		34	33	
						73				32	31	30	29	28				24	23	22						
					15	14	13	12						7	6	5				2						
SALEABLE	NOT APPLICABLE	34566-8523	9	B	ST GRY	72		70		68						62	61						55			
						52				48	47	46			43			40								
						73						30								22	21	20	19	18	17	
				16	15	14								8		6		4			2					
SALEABLE	NOT APPLICABLE	34566-8533	9	C	BLUE			70			67	66	65	64			61	60			57			54		
						52	51	50	49	48	47		45	44			41				37			34	33	
						73				32				28	27		25							18	17	
				16	15	14	13	12	11	10																
SALEABLE	NOT APPLICABLE	34566-8543	9	C	BLUE		71		69		67	66	65	64				60			57			54		
						52	51	50	49	48	47	46	45	44						37			34	33		
						73				32				28	27											
				16	15	14	13	12	11	10	9	8	7													
SALEABLE	NOT APPLICABLE	34566-8553	0	B	ST GRY	72				68						62	61	60	59				55			
						52						46			43		41	40								
						73														22	21	20				
				16	15	14								8		6		4								
SALEABLE	NOT APPLICABLE	34566-8563	0	A	BLACK	72		70			67				63			60	59	58	57	56	55			
						52	51			48	47	46			43	42		40	39	38	37	36	35			
						73								28						22	21			18	17	
								12	11		9			7							2	1				
SALEABLE	NOT APPLICABLE	34566-8573	0	B	ST GRY	72	71	70	69	68	67	66	65	64	63		61	60	59		57	56	55			
						52	51	50	49	48	47	46	45	44	43		41	40	39	38	37	36	35		33	
						73				32	31	30	29	28		26		24	23	22	21	20	19			
				16	15	14	13	12			9	8	7	6	5	4	3									
SALEABLE	NOT APPLICABLE	34566-8583	0	C	BLUE	72	71	70	69		67	66	65	64				60				56		54		
						52	51	50	49		47	46	45	44				40	39	38				34		
						73					31	30		28		26	25	24	23	22	21				17	
				16	15	14	13	12			9	8	7	6	5											
SALEABLE	NOT APPLICABLE	34566-8593	0	B	ST GRY	72				68						62	61	60	59				55			
						52				48	47	46			43		41	40		38	37	36	35			
						73						30								22	21	20	19	18		
				16	15	14								8		6		4				1				
SALEABLE	TBD	34822-0183	0	A	BLACK	64	63	62	61	60	59					54	53		51		49	66				
																38	37		35		33					
						65												24	23	22	21	20	19	18	17	
					15	14	13						8	7				4	3	2	1					
SALEABLE	TBD	34822-0193	0	A	BLACK	64	63								54	53		51		49	66					
																38	37		35		33					
						65								28				24	23		21	20	19	18	17	
					15	14	13						8	7				4		2	1					
SALEABLE	TBD	34822-0203	0	A	BLACK	64	63	62	61	60	59					54	53		51		49	66				
																38	37		35		33					
						65					31			28				24	23	22	21	20	19	18	17	
					15	14	13						8	7				4		2	1					
SALEABLE	TBD	34822-0213	0	A	BLACK	64	63	62	61	60	59					54	53		51		49	66				
																38	37		35		33					
						65					31							24	23	22	21	20	19	18	17	
					15	14	13						8	7				4	3	2	1					



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																							
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																							
		NUMBER																											
SALEABLE	NOT APPLICABLE	34566-8613	0	C	BLUE		71	70			67	66	65	64			61	60	59	58	57			54					
						52	51	50		48	47		45	44			41		39	38	37			34	33				
						73				32			28	27		25		23					18	17					
										16	15	14	13	12	11	10	9	8	7										
SALEABLE	NOT APPLICABLE	34566-8623	9	C	BLUE					68			65		63	62	61		59	58	57	56	55		53				
										48			45		43	42	41				37	36	35	34	33				
						73				32	31										20	19	18						
																					4	3	2	1					
SALEABLE	NOT APPLICABLE	34566-8633	0	B	ST GRY	72										62	61												
						52				48	47	46			43			40											
						73						30								22	21	20	19	18	17				
										16	15	14								6		4							
SALEABLE	NOT APPLICABLE	34566-8643	0	C	BLUE		71	70			67	66		64			61	60			57			54					
						52	51	50	49	48			45	44			41				37			34	33				
						73				32			28	27		25							18	17					
										16	15	14	13	12	11	10	9	8	7										
SALEABLE	NOT APPLICABLE	34566-8653	9	C	BLUE		71		69		67	66	65	64	63		61	60			57								
						52	51	50		48	47	46	45		43		41				37			34	33				
						73								28	27		25												
										16	15	14	13	12	11	10	9	8	7										
SALEABLE	NOT APPLICABLE	34566-8663	0	B	ST GRY	72	71	70	69					64	63		61	60			58	57	56	55					
						52	51	50	49						43						38	37	36			33			
						73				32		30	29	28		26	25	24	23	22	21	20							
										16	15	14	13	12	11	10	9	8	7	6	5	4							
SALEABLE	NOT APPLICABLE	34822-0223	0	A	BLACK	64	63	62	61	60	59					54	53		51		49	66							
															38	37		35		33									
						65					31			28				24	23	22	21	20	19	18	17				
											15	14	13					8	7				4	3	2	1			
SALEABLE	NOT APPLICABLE	34566-8673	0	F	NATURAL	72		70		68	67	66			63	62			59		57				53				
						52	51		49	48	47	46		44			41	40	39		37	36	35	34	33				
						73				32		30			27	26	25	24		22	21	20							
											15	14	13			10	9	8		6	5	4		2					
SALEABLE	NOT APPLICABLE	34566-8683	0	B	ST GRY	72		70		68	67	66			63	62			59		57				53				
						52	51		49	48	47	46		44			41	40	39		37	36	35	34	33				
						73				32		30			27	26	25	24		22	21	20							
											15	14	13			10	9	8		6	5	4		2					
SALEABLE	NOT APPLICABLE	34566-8693	0	A	BLACK	72		70		68	67	66			63	62			59		57				53				
						52	51		49	48	47	46		44			41	40	39		37	36	35	34	33				
						73				32		30			27	26	25	24		22	21	20							
											15	14	13			10	9	8		6	5	4		2					
SALEABLE	NOT APPLICABLE	34566-8713	9	B	ST GRY	72	71	70	69					64	63			61	60			58	57	56	55				
						52	51	50	49					43						38	37	36			33				
						73				32		30	29	28		26	25	24	23	22	21	20							
										16	15	14	13	12	11	10	9	8	7	6	5	4							
SALEABLE	NOT APPLICABLE	34566-8723	0	C	BLUE		71	70				66		64			61	60			57			54					
						52	51	50	49	48			45	44			41				37			34	33				
						73				32				28	27		25							18	17				
										16	15	14	13	12	11	10	9	8	7										
SALEABLE	NOT APPLICABLE	34566-8733	0	A	BLACK	72	71	70	69	68		66	65	64	63			60			57	56		54					
						52	51	50	49	48		46	45	44	43	42		40	39	38	37	36		34					
						73				32	31	30	29	28					23	22	21	20							
											15	14	13	12					7	6	5	4	3	2					
SALEABLE	NOT APPLICABLE	34566-8743	0	C	BLUE	72	71	70	69		67	66		64															
						52	51	50	49		47	46		44					39	38									
						73						30	29	28	27	26	25	24	23	22	21				17				
										16	15	14	13	12	11	10	9	8	7	6	5								
SALEABLE	NOT APPLICABLE	34566-8753	0	B	ST GRY	72	71	70	69	68	67	66	65	64	63		61	60		58	57	56	55	54	53				
						52	51	50	49	48	47	46	45	44	43			40			37	36	35	34	33				
						73				32		30	29	28		26	25	24			21		19						
										16		14	13	12	11	10	9	8		6	5			2	1				



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																				
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ Fp	COLOR OPTION ▽ Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ Fp																				
		NUMBER																								
SALEABLE	NOT APPLICABLE	34566-9013	0	A	BLACK				69	68			65	64	63	62	61	60								
									49	48				45	44	43	42	41	40		38				34	
						73											25	24	23	22		20	19			
SALEABLE	NOT APPLICABLE	34566-9023	0	B	ST GRY											62		59		6	5	4				
														42	41		39	38								
						73						31				27				23	22		20		18	17
SALEABLE	NOT APPLICABLE	34822-0323	9	A	BLACK			62	61	60	59	58	57	56	55			52		50		66				
						48	47	46	45	44	43	42	41	40	39			36		34						
						65					32	31	30	29		27	26	25		23		21				
SALEABLE	NOT APPLICABLE	34566-9033	0	C	BLUE	72		70			67				63			60	59	58	57	56	55			
						52	51	50	49		47	46	45	44					39	38				34		
						73						31	30	29	28		26	25	24	23	22	21				17
SALEABLE	NOT APPLICABLE	34566-9043	0	C	BLUE	72	71	70	69		67	66	65	64										54		
						52	51	50	49		47	46	45	44					39	38						
						73							30	29	28		26	25	24	23	22	21				17
SALEABLE	NOT APPLICABLE	34566-9053	0	C	BLUE	72	71	70	69	68		66	65	64			61	60		57	56		54	53		
						52	51	50	49	48		46	45	44	43	42		40	39		38	37	36		34	33
						73						31	30	29	28					23	22	21	20			
SALEABLE	NOT APPLICABLE	34566-9063	0	B	ST GRY	72				68						62	61	60	59				55			
						52						46		44	43		41	40								
						73						16	15	14					8		22	21	20	19	18	17
SALEABLE	NOT APPLICABLE	34566-9073	0	B	ST GRY	72	71	70	69	68	67	66	65	64	63		61	60	59		57	56	55			
						52	51	50	49	48	47	46	45	44	43		41	40	39	38	37	36	35	34	33	
						73					32	31	30	29	28		26		24	23	22	21	20	19	18	17
SALEABLE	NOT APPLICABLE	34566-9083	0	A	BLACK	72		70			67				63			60	59	58	57	56	55			
						52	51			48	47	46			43	42		40	39	38	37	36	35			
						73									28	27				22	21			18	17	
SALEABLE	NOT APPLICABLE	34566-9093	0	A	BLACK	72		70			67				63			60	59	58	57	56	55			
						52	51			48	47	46			43	42		40	39	38	37	36	35			
						73									28	27				22	21			18	17	
SALEABLE	NOT APPLICABLE	34566-9113	0	A	BLACK	72	71	70	69	68		66	65	64		61	60			57	56		54	53		
						52	51	50	49	48		46	45	44	43	42		40	39	38	37	36		34	33	
						73						31	30	29	28					23	22	21	20			
SALEABLE	NOT APPLICABLE	34566-9123	0	G	BLUE			78	77	76	75	74		72		70					64	63				
						60		58	57	56	55	54		52	51	50	49		47		45					
						40	39	38	37				33	32	31				27	26						
SALEABLE	NOT APPLICABLE	34822-0333	0	A	BLACK							58	57	56	55			52		50		66				
						48		46	45	44	43	42	41	40	39			36		34						
						65					32	31	30	29		27	26			23						
SALEABLE	NOT APPLICABLE	34822-0343	0	A	BLACK				61			58										66				
										44	43		41	40		38										
						65						31														
SALEABLE	NOT APPLICABLE	34822-0353	0	A	BLACK	64						58	57	56	55			52		50		66				
						48	47	46	45	44	43	42	41	40	39			36		34						
						65					32		30	29		27	26									



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																								
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																								
		NUMBER																												
SALEABLE	NOT APPLICABLE	34822-0453	0	A	BLACK						59	58	57	56		54	53			50		66								
										44	43	42	41	40	39		37	36	35	34	33									
						65					31			28		26	25	24	23											
SALEABLE	NOT APPLICABLE	34566-9213	0	B	ST GR Y					68	67	66	65	64						59	58	57		55	54	53				
							51	50	49	48		46	45		43	42	41	40	39	38	37		35			33				
						73				32	31	30				26		24	23	22		20								
SALEABLE	NOT APPLICABLE	34566-9223	9	B	ST GR Y	72											62	61	60	59				55						
						52				48	47	46					41	40		38	37	36	35							
						73						30								22	21	20	19	18						
SALEABLE	NOT APPLICABLE	34566-9233	9	C	BLUE		71				67		65	64			61	60	59		57			54						
						52	51	50		48	47		45	44		41		39		37			34	33						
						73				32				28	27		25		23				18							
SALEABLE	NOT APPLICABLE	34566-9243	9	B	ST GR Y	72	71	70	69					64	63		61			58	57	56	55							
						52	51	50	49					43					38	37	36				33					
						73				32		30	29	28		26	25	24	23	22	21	20								
SALEABLE	NOT APPLICABLE	34566-9253	9	B	ST GR Y	72	71	70	69	68	67		65	64	63	62	61	60	59		57	56	55	54	53					
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33					
						73				32	31	30	29	28	27	26	25	24	23	22	21									
SALEABLE	NOT APPLICABLE	34566-9263	9	B	ST GR Y	72				68						62	61	60	59				55							
						52						46			43		41	40												
						73					16	15	14						8		6		4							
SALEABLE	NOT APPLICABLE	34822-0463	0	A	BLACK	64	63	62		60	59		57	56	55	54	53	52	51	50	49	66								
						48	47	46	45		43	42			39		37	36	35	34	33									
						65				32		30	29	28	27	26	25	24	23	22	21	20	19	18	17					
SALEABLE	NOT APPLICABLE	34822-0473	9	C	BLUE					60	59		57	56	55	54	53		51		49	66								
						48	47	46	45			42			39		37		35		33		19	18	17					
						65				32											21			3	2	1				
SALEABLE	NOT APPLICABLE	34822-0483	9	A	BLACK	64	63								54	53		51		49	66									
															38	37		35		33										
						65						15	14	13					24	23		21	20	19	18	17				
SALEABLE	NOT APPLICABLE	34566-9273	9	B	ST GR Y	72	71	70	69	68	67		65	64	63		61	60	59		57	56	55	54	53					
								50	49	48	47	46		44	43	42		40	39			36	35	34	33					
						73				32	31	30	29	28	27	26	25	24	23	22	21									
SALEABLE	NOT APPLICABLE	34822-0493	0	C	BLUE	64	63	62		60	59		57	56	55	54	53	52	51	50	49	66								
						48	47	46	45			42			39		37	36	35	34	33		19	18	17					
						65				32		30	29	28	27	26	25	24	23	22	21	20	19	18	17					
SALEABLE	NOT APPLICABLE	34566-9283	9	G	BLUE	80	79	78							71				67											
						60	59	58	57			54			51	50	49	48	47			44				41				
						40	39		37				33	32		30	29	28	27		25	24								
SALEABLE	NOT APPLICABLE	34566-9293	9	G	BLUE				18					12	11		9	8			5		3	2						
						80	79	78						71				67												
						60	59	58	57			54			51	50	49	48	47			44				41				
SALEABLE	NOT APPLICABLE	34566-9313	9	A	BLACK	72								64		62	61			58	57	56	55	54	53					
						52	51			48		46	45		43		41	40			37									
						73				32		30	29		27		25					20								
SALEABLE	NOT APPLICABLE	34566-9313	9	A	BLACK	73				16	15		13		11	10	9													



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																						
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ _{Fp}	COLOR OPTION ▽ _{Fp}	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ _{Fp}																						
		NUMBER																										
SALEABLE	NOT APPLICABLE	34566-9323	9	A	BLACK	72								64		62	61		59	58	57	56	55	54	53			
						52	51			48		46	45		43		41	40			37		35	34				
						73					32		30	29		27		25					20					
						73					16	15		13		11	10	9					4	3				
SALEABLE	NOT APPLICABLE	34566-9333	9	A	BLACK	72								64		62	61		59	58	57	56	55	54				
						52	51			48		46	45		43		41	40			37		35	34				
						73					32		30	29		27		25					20					
						73					16	15		13		11	10	9					4					
SALEABLE	NOT APPLICABLE	34566-9343	9	C	BLUE	72		70	69	68			66			63	62			58		56	55		53			
									49			46			43	42		40		38		36	35					
						73						31	30	29			26		24		22	21	20	19		17		
						73																	4	3	2	1		
SALEABLE	NOT APPLICABLE	34822-0503	0	A	BLACK	64		62	61	60	59	58				54	53		51			66						
						48	47								38	37	36		34							17		
						65							30	29	28		26		24		21							
						65						15		13				9		7			4	3	2	1		
SALEABLE	NOT APPLICABLE	34822-0513	9	A	BLACK		63	62	61		59					54	53				49	66						
															38	37		35		33								
						65						31			28				24		22	21	20	19	18	17		
						65						15	14	13	12				8	7			4	3	2	1		
SALEABLE	NOT APPLICABLE	34566-9353	9	A	BLACK	72								64		62	61			58	57	56	55	54	53			
						52	51			48		46	45		43		41	40			37		35	34				
						73					32		30	29		27		25					20					
						73					16	15		13		11	10	9					4					
SALEABLE	NOT APPLICABLE	34566-9363	9	A	BLACK	72								64		62	61				57	56	55	54	53			
						52	51					46	45		43			40			37		35	34				
						73					32		30	29		27		25				20						
						73					16	15		13		11	10	9				4						
SALEABLE	NOT APPLICABLE	34566-9373	9	G	BLUE	80									71					66		64						
							59		57								49											
							39									30												
						20																						
SALEABLE	NOT APPLICABLE	34566-9383	9	A	BLACK	72	71	70	69	68				64	63	62	61		59	58	57	56	55	54	53			
						52	51	50		48	47	46	45	44	43		41	40	39	38	37		35	34	33			
						73					32		30	29		27	26	25	24				20	19	18	17		
						73					16	15	14	13	12	11	10	9	8	7			4	3	2	1		
SALEABLE	NOT APPLICABLE	34566-9393	0	B	ST GR Y	72	71	70	69	68	67		65	64	63		61	60	59		57	56	55	54	53			
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33			
						73					32	31	30	29	28	27	26	25	24	23	22	21	20					
						73					16	15	14	13	12	11	10	9	8	7	6		4	3	2			
SALEABLE	NOT APPLICABLE	34566-9413	9	H	ST GR Y																							
SALEABLE	NOT APPLICABLE	34566-9423	0	A	BLACK	72	71	70			67	66								58	57	56	55	54	53			
						52	51	50			47	46							39		37	36	35		33			
						73					32	31	30	29	28	27	26							18	17			
						73					16	15	14	13	12	11	10		8	7				3	2	1		
SALEABLE	NOT APPLICABLE	34566-9433	0	B	ST GR Y	72	71	70	69	68	67	66	65	64	63		61			58	57	56	55	54	53			
						52	51	50	49	48	47	46	45	44				40	39			37	36	35	34	33		
						73							30	29	28	27	26	25	24			21						
						73					16		14	13	12		10	9	8		6	5			2	1		
SALEABLE	NOT APPLICABLE	34566-9443	9	B	ST GR Y	72	71	70	69	68	67		65	64	63	62	61	60	59		57	56	55	54	53			
								50	49	48	47	46		44	43	42		40	39			36	35	34	33			
						73					32	31	30	29	28	27	26	25	24	23	22	21						
						73					16	15	14	13	12	11	10	9		7	6		4	3	2			
SALEABLE	NOT APPLICABLE	34566-9453	0	A	BLACK	72	71	70	69		67			64			61	60	59		57	56	55	54	53			
						52	51			48			45	44			41	40	39	38	37	36	35	34				
						73						31	30	29		27	26	25		22			19	18				
						73					16	15	14	13	12	11	10	9	8	7	6	5			2			



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																							
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ _{Fp}	COLOR OPTION ▽ _{Fp}	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ _{Fp}																							
		NUMBER																											
SALEABLE	NOT APPLICABLE	34566-9463	0	G	BLUE	80	79	78			75								66	65	64								
							59												46				43	42	41				
							39	38	37		35					30				26	25	24			22	21			
						20			18	17	16				12			8	7	6	5			3	2	1			
SALEABLE	NOT APPLICABLE	34566-9473	0	G	BLUE	80	79	78			75								66	65	64			62					
							59						53						46				43	42	41				
							39	38	37		35					30				26	25	24			22	21			
						20			18	17	16				12			8	7	6	5			3	2	1			
SALEABLE	NOT APPLICABLE	34566-9483	0	G	BLUE	80	79	78			75								66	65	64								
																			46				43	42	41				
							39	38	37		35					30				26	25	24			22	21			
						20			18	17	16				12			8	7	6	5			3	2	1			
SALEABLE	NOT APPLICABLE	34566-9493	0	G	BLUE	80	79	78			75								66	65									
							59												46				43	42	41				
							39	38	37		35					30				26	25	24			22	21			
						20			18	17	16				12			8	7	6	5			3	2	1			
SALEABLE	NOT APPLICABLE	34566-9513	0	G	BLUE	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61				
						60	59	58	57	56	55	54	53	52	51	50	49	48		46				43	42	41			
							39	38	37		35					30				26	25	24			22	21			
						20			18	17	16				12				8	7	6	5			3	2	1		
SALEABLE	NOT APPLICABLE	34566-9523	0	G	BLUE	80	79	78			75								66	65	64			62					
							59			57			53							46				43	42	41			
							39	38	37		35		33			30				26	25	24			22	21			
						20			18	17	16							8	7	6	5			3	2	1			
SALEABLE	NOT APPLICABLE	34822-0523	0	C	BLUE	64	63	62		60	59		57	56	55	54	53	52	51	50	49	66							
						48	47	46	45			42			39		37	36	35	34	33								
						65					32		30	29	28	27	26	25	24	23	22								
										16	15	14	13	12	11	10	9	8	7	6									
SALEABLE	NOT APPLICABLE	34566-9543	0	A	BLACK																								
									49	48	47	46	45	44	43			40		38	37	36			34				
						73					32	31		29	28	27		25	24	23	22		20	19	18	17			
										16	15			12		10	9			6	5			2	1				
SALEABLE	NOT APPLICABLE	34566-9553	0	C	BLUE							66	65	64	63	62		60	59		57	56	55	54	53				
						52	51		50	49	48	47	46	45			42		39		37	36	35	34	33				
						73					32		30	29	28	27	26	25	24	23	22			19	18	17			
										16	15	14	13	12	11	10	9	8	7	6			3	2	1				
SALEABLE	NOT APPLICABLE	34566-9563	0	C	BLUE	72	71		70	69		67	66	65	64				60				56		54				
						52	51		50	49	48	47	46	45	44				40	39	38			34					
						73					31	30		28		26	25	24	23	22	21	20			17				
										16	15	14	13	12			9	8	7	6	5	4							
SALEABLE	NOT APPLICABLE	34566-9573	0	B	ST GR	72	71		70	69	68	67		65	64	63		61	60	59		57	56	55	54	53			
						52	51		50	49	48	47	46	45	44	43	42		40	39			36	35	34	33			
						73					32	31	30	29	28	27	26	25	24	23	22	21							
										16	15	14	13	12	11	10	9	8	7	6		4	3	2					
SALEABLE	NOT APPLICABLE	34566-9583	0	B	ST GR	72	71		70	69	68	67	66	65	64	63		61	60	59		57	56	55	54				
						52	51		50	49	48	47	46	45	44	43		41	40	39	38	37	36	35	34	33			
						73					32	31	30	29	28		26		24	23	22	21	20	19	18	17			
										16	15	14	13	12			9	8	7	6	5	4	3	2	1				
SALEABLE	NOT APPLICABLE	34566-9593	0	A	BLACK	72			70			67				63			60	59	58	57	56	55					
						52	51				48	47				43	42		40	39	38	37	36	35					
						73								28	27									18	17				
														12	11		9		7					2	1				
SALEABLE	NOT APPLICABLE	34566-9613	0	C	BLUE		71		70	69		67	66	65	64				60				56						
						52	51		50	49		47	46	45	44				40	39				34					
						73					31	30		28		26	25	24	23	22	21	20	19	18	17				
										16	15	14	13	12			9	8	7	6	5	4							
SALEABLE	NOT APPLICABLE	34566-9623	9	B	ST GR	72	71		70						64	63		61			58	57	56	55					
						52	51		50							43					38	37	36						
						73					32		30	29	28		26	25	24	23	22	21	20						
										16		14	13		11	10	9	8	7	6	5	4							



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																					
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																					
		NUMBER																									
SALEABLE	NOT APPLICABLE	34566-9633	9	B	ST GR Y	72	71	70	69	68	67		65	64	63		61	60	59		57	56	55	54	53		
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33		
						73				32	31	30	29	28	27	26	25	24	23	22	21	20			3	2	
SALEABLE	NOT APPLICABLE	34566-9643	9	A	BLACK				69					64	63		61		59								
						52				48				44	43		41		39	38				35	34		
						73						30	29									5			2		
SALEABLE	NOT APPLICABLE	34566-9653	9	G	BLUE	80										10					66	65					
							59		57																		
							39									30											
SALEABLE	NOT APPLICABLE	34566-9663	0	B	ST GR Y	72	71	70	69	68	67	66	65	64	63		61			58	57	56	55	54	53		
						52	51	50	49	48	47	46	45	44			40			37	36	35	34	33			
						73				32		30	29	28		26	25	24		21							
SALEABLE	NOT APPLICABLE	34822-0533	9	C	BLUE	64	63			60	59		57	56	55		53	52	51	50	49	66					
						48	47	46	45			42			39	38		36	35	34	33						
						65				32		30	29	28	27	26	25	24	23	22		20		18	17		
SALEABLE	NOT APPLICABLE	34822-0543	0	A	BLACK					16		14	13	12	11	10	9	8	7	6			3	2	1		
						65								28		25	24		22	21	20	19	18	17			
											15	14	13	12				8	7			4	3	2	1		
SALEABLE	NOT APPLICABLE	34822-0553	0	A	BLACK	64	63									54	53		51		49	66					
																38	37		35		33						
						65					31			28				24	23		21	20	19	18	17		
SALEABLE	NOT APPLICABLE	34822-0563	0	C	BLUE	64	63	62		60	59		57	56	55	54	53	52	51	50	49	66					
						48	47	46	45			42			39		37	36	35	34	33						
						65				32		30	29	28	27	26		24	23	22			19	18	17		
SALEABLE	NOT APPLICABLE	34566-9673	0	C	BLUE	72	71	70	69		67	66	65	64				60			56		54				
						52	51	50	49		47	46	45	44				40	39	38				34			
						73					31	30		28		26	25	24	23	22	21	20			17		
SALEABLE	NOT APPLICABLE	34566-9683	0	B	ST GR Y	72	71	70	69	68	67	66	65	64	63		61	60			57	56	55	54			
						52	51	50	49	48	47	46	45	44	43		41	40			38	37	36	35		33	
						73				32	31	30	29	28		26		24	23	22	21	20	19		17		
SALEABLE	NOT APPLICABLE	34566-9693	0	A	BLACK	72		70			67				63			60	59	58	57	56	55		53		
						52	51			48	47				43	42		40	39	38	37	36	35		33		
						73								28										18	17		
SALEABLE	NOT APPLICABLE	34566-9713	0	B	ST GR Y					68	67	66	65	64					59	58	57		55	54	53		
							51	50	49	48		46	45		43	42		40	39	38	37		35		33		
						73				32	31	30				26		24	23	22		20					
SALEABLE	NOT APPLICABLE	34566-9723	0	B	ST GR Y	72	71	70	69	68	67	66	65	64	63		61			58	57	56	55				
						52	51	50	49	48	47	46	45		43			40			37	36					
						73				32		30	29	28		26	25	24			21		19				
SALEABLE	NOT APPLICABLE	34566-9733	0	A	BLACK													59						53			
						52	51	50			47	46								39		37		35		33	
						73						30	29	28	27	26				21				17			
SALEABLE	NOT APPLICABLE	34822-0573	0	A	BLACK	64	63									54	53		51		49	66					
																					35		33				
						65								28				24		22		20	19	18	17		



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																					
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽ _{Fp}	COLOR OPTION ▽ _{Fp}	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽ _{Fp}																					
		NUMBER																									
SALEABLE	NOT APPLICABLE	34822-0583	0	A	BLACK						59	58	57	56		54	53			50		66					
										44			41			37	36	35	34	33							
						65					31			28		26	25	24	23								
SALEABLE	NOT APPLICABLE	34822-0593	0	A	BLACK	64	63	62		60	59		57	56	55	54	53		51		49	66					
						48	47	46	45			42			39		37		35		33						
						65					32										21		19	18	17		
SALEABLE	NOT APPLICABLE	34566-9743	0	B	ST GRY	72	71	70	69	68	67		65	64	63		61	60	59		57	56	55	54	53		
								50	49	48	47	46		44	43	42		40	39			36	35	34	33		
						73					32	31	30	29	28	27	26	25	24	23	22	21			3	2	1
SALEABLE	NOT APPLICABLE	34566-9753	0	C	BLUE	72	71	70	69		67	66	65	64				60			56		54				
						52	51	50	49		47	46	45	44		42	41	40	39								
						73					31	30		28		26	25	24	23	22	21	20					
SALEABLE	NOT APPLICABLE	34566-9763	0	G	BLUE			78	77	76									67	66	65						
											55								47		45						
						40	39	38	37	36	35	34	33	32			29	28		26	25			22	21		
SALEABLE	NOT APPLICABLE	34566-9773	0	A	BLACK	72	71	70			67	66							59					53			
						52	51	50			47	46							39		37		35		33		
						73						30	29	28	27	26				21				17			
SALEABLE	NOT APPLICABLE	34566-9783	0	B	ST GRY	72	71	70	69	68	67		65	64	63	62	61	60	59		57	56	55	54	53		
								50	49	48	47	46		44	43	42		40	39			36	35	34	33		
						73					32	31	30	29	28	27	26	25	24	23	22	21			3	2	
SALEABLE	NOT APPLICABLE	34822-0603	0	C	BLUE	64	63	62		60	59		57	56	55	54	53		51		49	66					
						48	47	46	45			42			39		37		35		33						
						65					32												19	18	17		
SALEABLE	NOT APPLICABLE	34822-0613	0	A	BLACK		63	62	61		59					54	53					66					
																		38	37		35						33
						65					31			28					24		22	21	20	19	18	17	
SALEABLE	NOT APPLICABLE	34566-9793	9	B	ST GRY	72	71		69	68	67		65	64	63		61			58	57	56	55	54	53		
						52	51	50	49	48	47			44	43		41			38	37	36					
						73							29	28		26	25	24	23	22		20					
SALEABLE	NOT APPLICABLE	34566-9813	9	A	BLACK	72	71	70			67	66	65	64	63	62	61		59				55	54	53		
						52	51				47	46	45	44	43	42	41		39		37	36	35	34	33		
						73						30	29				25							18	17		
SALEABLE	NOT APPLICABLE	34822-0623	0	A	BLACK	64	63	62		60	59		57	56	55	54	53	52	51	50	49	66					
						48	47	46	45			42			39		37	36	35	34	33						
						65					32	31	30	29	28	27	26	25	24	23	22		19	18	17		
SALEABLE	NOT APPLICABLE	34566-9823	0	A	BLACK	72	71	70	69	68	67		65	64	63		61	60	59		57	56	55	54	53		
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33		
						73					32	31	30	29	28	27	26	25	24	23	22	21			3	2	
SALEABLE	NOT APPLICABLE	34822-0633	0	A	BLACK		63	62	61		59					54	53			49	66						
																		38	37						35		33
						65					32	31		28				24		22	21	20	19	18	17		
SALEABLE	NOT APPLICABLE	34822-0643	9	C	BLUE	64	63			60	59		57	56	55		53	52	51	50	49	66					
						48	47	46	45			42			39	38		36	35	34	33						
						65					32		30	29	28	27	26	25	24	23	22		20		18	17	



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																					
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																					
		NUMBER																									
SALEABLE	NOT APPLICABLE	34822-0653	0	A	BLACK	64	63	62	61		59					54	53				49	66					
																38	37		35		33					20	19
						65					31			28				24		22	21		4	3	2	1	
SALEABLE	NOT APPLICABLE	34566-9833	9	B	ST GRY	72	71	70	69	68	67			64	63		61			58	57	56	55	54	53		
						52	51	50	49	48	47			44	43		41			38	37	36			33		
						73				32		30	29	28		26	25	24	23	22	21	20					
SALEABLE	NOT APPLICABLE	34566-9843	9	A	BLACK	72	71	70			67	66	65	64	63	62	61		59			55	54	53			
						52	51	50			47	46	45	44	43	42	41	40	39		37	36	35	34	33		
						73						30	29											18	17		
SALEABLE	NOT APPLICABLE	34566-9853	9	B	ST GRY	72	71	70	69	68	67		65	64	63	62	61	60	59	58	57	56	55	54	53		
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33		
						73				32	31	30	29	28	27	26	25	24	23	22	21	20					
SALEABLE	NOT APPLICABLE	34566-9863	0	B	ST GRY	72	71	70	69	68	67		65	64	63	62	61	60	59		57	56	55	54	53		
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33		
						73				32	31	30	29	28	27	26	25	24	23	22	21						
SALEABLE	NOT APPLICABLE	34566-0004	0	A	BLACK	72	71	70	69		67			64	63		61	60	59		57	56	55	54	53		
						52	51			48			45	44	43		41	40	39	38	37	36	35	34	33		
						73					31	30	29		27	26	25			22			19	18			
SALEABLE	NOT APPLICABLE	34566-0014	0	G	BLUE	80	79	78	77		75									66	65	64		62			
							59		57											46			43	42	41		
							39	38	37		35		33	32		30				26	25	24		22	21		
SALEABLE	NOT APPLICABLE	34566-0024	0	G	BLUE	20		18	17	16	15			12				8	7	6	5		3	2	1		
SALEABLE	NOT APPLICABLE	34566-0034	0	G	BLUE	80	79	78			75									66	65	64		62			
							59		57				53							46			43	42	41		
							39	38	37		35		33	32		30				26	25	24		22	21		
SALEABLE	NOT APPLICABLE	34566-0044	0	A	BLACK	20		18	17	16			12			8	7	6	5		3	2	1				
						72	71	70	69		67			64		61	60	59		57	56	55	54	53			
						52	51			48			45	44		41	40	39	38	37	36	35	34	33			
SALEABLE	NOT APPLICABLE	34566-0054	0	G	BLUE	73					31	30	29		27	26	25		22			19	18				
										16	15	14	13	12	11	10	9	8	7	6	5			3	2		
						80	79	78	77		75									66	65	64		62			
SALEABLE	NOT APPLICABLE	34566-0064	0	A	BLACK		59		57										46			43	42	41			
							39	38	37		35		33		30				26	25	24		22	21			
						20		18	17	16	15			12				8	7	6	5		3	2	1		
SALEABLE	NOT APPLICABLE	34566-0084	0	A	BLACK	72	71	70	69		67			64	63		61	60	59		57	56	55	54	53		
						52	51			48			45	44	43		41	40	39	38	37	36	35	34			
						73					31	30	29		27	26	25			22			19	18			
SALEABLE	NOT APPLICABLE	34566-0094	0	B	ST GRY			70	69		67			64		61	60	59		57	56	55	54	53			
						52	51			48			45	44		41	40	39	38	37	36	35	34	33			
						73					31	30	29		27	26	25			22			19				
SALEABLE	NOT APPLICABLE	34566-0104	0	B	ST GRY	72	71	70	69	68	67			65	64	63	62	61	60	59		57	56	55	54	53	
						52	51	50	49	48	47	46		44	43	42		40	39			36	35	34	33		
						73				32	31	30	29	28	27	26	25	24	23	22	21						
SALEABLE	NOT APPLICABLE	34566-0104	0	B	ST GRY			50	49	48	47		46		44	43	42		40	39		36	35	34	33		
						73				32	31	30	29	28	27	26	25	24	23	22	21						
										16	15	14	13	12	11	10	9		7	6		4	3	2			



MX123 52/66/73/80-WAY RECEPTACLE ASSY SEALED PIN OUT SHEET

STATUS	GM PART #	HRNS CONN ASSY			TPA	GROMMET CAP																							
		MATERIAL/PART	WIRE DRESS OPTION	KEY OPTION ▽Fp	COLOR OPTION ▽Fp	NUMBERS INDICATE CAVITIES OPEN FOR CIRCUITS ▽Fp																							
		NUMBER																											
SALEABLE	NOT APPLICABLE	34566-0114	0	B	ST GR	72	71	70	69					64	63		61			58	57	56	55						
						52	51	50	49						43					38	37	36					33		
						73				32		30	29	28		26	25	24	23	22	21	20					1		
SALEABLE	NOT APPLICABLE	34566-0124	0	B	ST GR					16	15	14	13	12		11	10	9	8	7	6	5	4						
						73						30								22	21	20	19	18	17				
										16	15	14									6		4	3					
SALEABLE	NOT APPLICABLE	34566-0134	0	B	ST GR	72										62	61	60	59										
						52				48	47	46						41	40		38	37	36	35					
						73						30								22	21	20	19	18					
SALEABLE	NOT APPLICABLE	34566-0144	9	B	ST GR								66						58										
						73												41			38	37							
																			8			5	4			19	18	17	1
SALEABLE	NOT APPLICABLE	34822-0663	9	C	BLUE				61	60		58			54														
										44	43						37												
						65					31										21	20	19						
SALEABLE	NOT APPLICABLE	34822-0673	0	A	BLACK	64				60		58			54														
						48	47	46	45	44	43							37											
						65				32		30	29		27	26	25					21	20	19					
SALEABLE	NOT APPLICABLE	34822-0683	9	A	BLACK		63	62	61	60	59					54	53				49								
										44						38	37		35		33								
						65					31			28			24	23	22	21	20	19	18	17					
SALEABLE	NOT APPLICABLE	34822-0693	9	C	BLUE			62	61			58			54														
										44	43		41	40			37												
						65					31											20	19						
SALEABLE	NOT APPLICABLE	34566-0154	9	B	ST GR	72	71	70	69	68	67	66	65	64	63	62	61	60	59		57	56	55	54	53				
						52	51	50	49	48	47	46	45	44	43	42		40	39			36	35	34	33				
						73				32	31	30	29	28	27	26	25	24	23	22	21								
SALEABLE	NOT APPLICABLE	34566-0164	0	G	BLUE	80	79	78	77		75									66	65	64		62					
							59		57				53							46		44	43	42	41				
							39	38	37		35		33	32		30				26	25	24		22	21				
SALEABLE	NOT APPLICABLE	34566-0174	9	B	ST GR	72	71	70			67	66					60			57					53				
						52	51	50			47	46							39		37		35			33			
						73						30	29	28			25	24	23	22		20	19		17				
SALEABLE	NOT APPLICABLE	34566-0184	9	B	ST GR								13	12				8	7				3			1			
						72	71	70	69	68	67	66	65	64	63		61			58	57	56	55	54	53				
						52	51	50	49	48	47	46	45	44	43	42	41	40			37	36							
SALEABLE	NOT APPLICABLE	34566-0184	9	B	ST GR	73				32		30	29	28		26	25	24			21								
										16		14	13	12	11	10	9	8		6	5							1	