

CHANGE CONTROL SHEET

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REL CLASS	DISTR CODE	REVISIONS			
PROD	-	CHANGE	DESCRIPTION	DATE (YYYY-MM-DD)	APPROVED
		-	INITIAL RELEASE	2019-03-01	R.B.
		A	SEE DCN	2019-05-31	R.B.

MATERIAL			DATE (YYYY-MM-DD)
-		DRAWN	J.YORBA 2019-02-14
HEAT TREAT		CHECKED	R. Gamm 2019-02-28
		OTHER	
FINISH		PROJ APPVL	James Jacobson 2019-02-28
		PROJ SUPER.	
-	-	APPROVAL	Adm 2019-02-28
NEXT ASSY	USED ON	MFG ENG.	B.P. Hegg 2019-02-28
FIRST APPLICATION		QA APPVL	P.O. 2019-02-28

MEGGITT

Meggitt (North Hollywood), Inc.
 12838 Satcoy Street North Hollywood, California 91605

TITLE:

STANDARD SUBSTITUTION SPECIFICATION

SIZE	CAGE CODE	DWG NO.
A	79318	SPS 718
SCALE	WT.	SHEET
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STANDARD SUBSTITUTION SPECIFICATION

1. SCOPE

1.1 Scope. This specification authorizes the substitution of process and standard specifications listed herein for all production programs, unless otherwise specified on the drawing or by contract.

1.2 Acceptable Substitutions. Items noted as acceptable substitutions are either superseding specifications or approved alternatives. The original specification identified on the drawing is always the preferred option.

2. MATERIAL SUBSTITUTION AUTHORIZATION

Table 1 – Material Substitution Table

SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
MIL-R-25988	Superseded	Rubber, Fluorosilicone Elastomer, Oil, Fuel	MIL-DTL-25988	
MIL-P-46174	Cancelled	Plastic Molding Material, Polyphylene Sulfide, Glass Fiber Reinforced	ASTM D4067	See ASTM D4067 Appendix for Cross Reference from MIL-P-46174 to ASTM Classification System D4067
MIL-P-997	Cancelled	Plastic Material, Laminated, Thermosetting, Electrical Insulation: Sheets, Glass Cloth, Silicone Resin	MIL-I-24768/17	
MIL-M-14	Cancelled	Mold Compounds, Thermosetting	ASTM D5948	
MIL-S-5059 For CRES 301	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5901 1/4 Hard: AMS 5517 1/2 Hard: AMS 5518 3/4 Hard: AMS 5902 Full Hard: AMS 5519	
MIL-S-5059 For CRES 302	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5516 1/4 Hard: AMS 5903 1/2 Hard: AMS 5904 3/4 Hard: AMS 5905 Full Hard: AMS 5906	
MIL-S-5059 For CRES 304	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5513 1/4 Hard: AMS 5910 1/2 Hard: AMS 5911 3/4 Hard: AMS 5912 Full Hard: AMS 5913	

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
MIL-S-5059 For CRES 316	Cancelled	Steel, Corrosion Resistant (18-8) Plate, Sheet and Strip	Annealed: AMS 5524 1/4 Hard: AMS 5907	
QQ-A-250	Cancelled	General Specification for Aluminum and Aluminum Alloy Plate and Sheet	AMS-QQ-A-250	
QQ-B-613	Cancelled	Brass, Leaded and Nonleaded: Flat Products (Plate, Bar, Sheet, and Strip)	Comp 1: ASTM B36/B36M, Alloy C26800 Comp 2: ASTM B36/B36M, Alloy C26000	
QQ-B-626	Cancelled	Brass, Leaded and Nonleaded: Rod, Shapes, Forgings, and Flat Products with Finished Edges (Bar and Strip)	Comp 260: ASTM B36/B36M, Alloy C26000 Comp 268: ASTM B36/B36M, Alloy C26800 Comp 360: ASTM B16/B16M, Alloy C36000	
QQ-C-533	Cancelled	Copper-Beryllium Alloy Strip (Copper Alloy 170 and 172)	Alloy 170: ASTM B194, Alloy C17000 Alloy 172: ASTM B194, Alloy C17200	See QQ-C-533B Cancellation Notice for Alloy and Temper Supersession Table

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3. PROCESS SUBSTITUTION AUTHORIZATION

Table 2 – Process Substitution Table

SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
AMS-H-6088	Cancelled	Heat Treatment of Aluminum Alloys	Parts: AMS 2770 Conversion of Raw Material Temper: AMS 2770 Castings: AMS 2771 Raw Materials: AMS 2772	
AMS-QQ-P-35 Method 1 or No Method Specified	Cancelled	Passivation of Corrosion Resistant Steels	AMS 2700, Method 1, Type and Class Optional	If Type and Class are specified, they shall be maintained
AMS-QQ-P-35 Method 2	Cancelled	Passivation of Corrosion Resistant Steels	AMS 2700, Method 2	
AMS-STD-2175	Cancelled	Classification and Inspection of Castings	AMS 2175	
MIL-C-13924	Cancelled	Coating, Oxide, Black, for Ferrous Metals	MIL-DTL-13924	
MIL-C-5541	Superseded	Chemical Conversion Coatings on Aluminum and Aluminum Alloys	MIL-DTL-5541	
MIL-C-6021	Cancelled	Classification and Inspection of Castings	AMS-STD-2175 or AMS 2175	
MIL-H-6088	Cancelled	Heat Treatment of Aluminum Alloys	AMS-H-6088 or Parts: AMS 2770 Conversion of Raw Material Temper: AMS 2770 Castings: AMS 2771 Raw Materials: AMS 2772	
MIL-H-6875	Cancelled	Heat Treatment of Steel Raw Materials	AMS-H-6875	
MIL-P-19834	Superseded	Adhesive Backed General Specification for Plates, Identification or Instruction, Metal Foil	MIL-DTL-19834	
MIL-STD-1949	Cancelled	Inspection, Magnetic Particle	ASTM E1444/E1444M	

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SPECIFICATION	STATUS	DESCRIPTION	ACCEPTABLE SUBSTITUTIONS	NOTES
QQ-P-35, Method 1 or No Method Specified	Cancelled	Passivation of Corrosion Resistant Steels	AMS-QQ-P-35, Method 1 or AMS 2700, Method 1	If Type and Class are specified, they shall be maintained
QQ-P-35, Method 2	Cancelled	Passivation of Corrosion Resistant Steels	AMS-QQ-P-35, Method 2 or AMS 2700, Method 2	
QQ-P-416	Cancelled	Plating, Cadmium (Electrodeposited)	Class A: AMS-QQ-P-416, Class 1 Class B: AMS-QQ-P-416, Class 2 Class C: AMS-QQ-P-416, Class 3	

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4. MATERIAL AND PROCESS INDEX

4.1 Materials

Aluminum
QQ-A-250

Beryllium Copper
QQ-C-533

Brass
QQ-B-613
QQ-B-626

Plastic Materials
AMS 3660
MIL-M-14
MIL-P-46174
MIL-P-997

Rubber Materials
MIL-R-25988

Stainless Steel
MIL-S-5059

4.2 Processes

Black Oxide Coating
MIL-C-13924

Cadmium Plating
QQ-P-416

Casting Inspection
AMS-STD-2175
MIL-C-6021

Chem Film
MIL-C-5541

Heat Treatment
AMS-H-6088
MIL-H-6088
MIL-H-6875

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Identification
MIL-P-19834

Magnetic Particle Inspection
MIL-STD-1949

Passivation
AMS-QQ-P-35
QQ-P-35

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