# ENGINEERING CHANGE NOTICE

	<u>ORIGINATOR</u>		ECN					
Northern Tachnologies	J. DiPietro	19-FEB-	-24	0846				
Technologies	PRODUCT TO BE CHANGED  EFFECTIVE DATE							
CLASS	CMP 45 DEGREE FLAME RETARDANT FAMILY OF CONNECTOR COVER PRODUCTS							
□ NEXT BUY	P/NREFERENCE DESCRIPTION OF CHANGE							
NEXT PRODUCTION	REASON FOR CHANGE							
WORK IN PROCESS								
FINISHED GOODS	Due to declining sales and increas conformance, certain product part	numbers are r	now discontin	ued.				
☐ RETURNS FROM FIELD	The cost of materials and labor materials and			ive increased to				
☐ UNITS IN FIELD								
■ UNITS IN STOCKROOM	Products will be available until cur No future replacement is planned.		s depleted.					
TYPE OF CHANCE	No future replacement is planned.							
TYPE OF CHANGE  DOCUMENTATION								
SYSPRO/SYSTEM								
REASON FOR CHANGE								
☐ DRAWING ERROR								
☐ FACILITATE MFG	DESCRIPTION OF CHANGE							
☐ MEET SPECS								
☐ PRODUCT IMPROVEMENT	Mark as DISCONTINUED as follow	vs:						
☐ VENDOR	Update Drawing # Change to: 0002-200-170RevD RevE							
DISCONTINUED	0002-200-171RevB RevC 0002-200-172RevB RevC							
	0002-200-173RevB RevC							
DOCUMENTS REVISED								
ASSEMBLY DRAWING								
■ BILL OF MATERIALS								
☑ QA PROCEDURE								
■ SCHEMATIC								
X FABRICATION DWG	This document contains 6 pages	3						
X TEST PROCEDURES  □	ENGINEERING	1 20	AFFRALC					
<u> </u>	ENGINEERING Stol Da	<u>M</u>	ATERIALS	: SA				
<u>ENCLOSURES</u>	PRODUCTION	пп	RODUCT MK	- 6				
	PRODUCTION	<u>Fr</u>	CODUCT MIN	<u> </u>				
COSTS	QUALITY ASSURANCE	TI	EST ENGINE	ERING				
TIME: HRS @=	Mar 11/2							
MATERIALS = TOTAL=	VICE PRESIDENT	DI	ESIGN					

QFRM-0002 Page 1

# **Northern Technologies**

# **Product Discontinuation Announcement**

February 19, 2024

Due to declining sales and increasing challenges in maintaining product conformance, certain product part numbers are now discontinued.

The cost of materials and labor maintaining these products have increased to the point where they can no longer be sustained.

# **Discontinued Product Part Numbers**

F88E200000, F88E201000, F88E210000, F88E211000, F88E220000, F88E221000, F88E230000, F88E231000, F30E200000, F30E201000, F30E210000, F30E211000, F30E220000, F30E221000, F30E231000

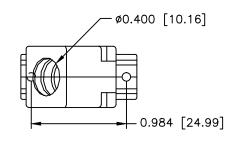
# **Replacement Product Part Numbers**

Products will be available until current inventory is depleted.

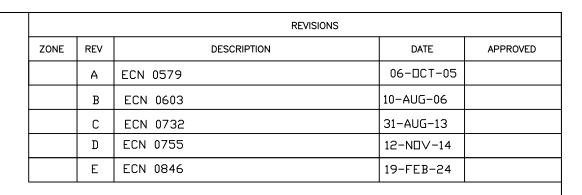
No future replacement is planned.

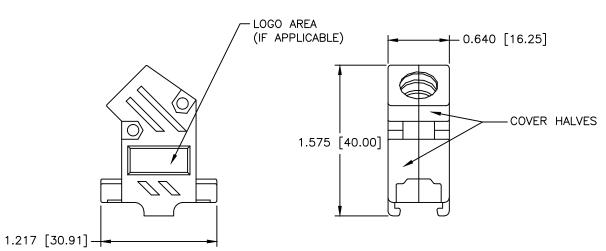
REF: ECN0846

For further information please contact: sales@northerntech.com (1-800-456-1875)



# THIS PRODUCT IS DISCONTINUED





#4-40 X 7/16" FILLISTER HEAD MACHINE SCREW
MATERIAL — STEEL
FINISH — BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)
QTY: 2 EACH

#4-40 #2 BLANK HEX NUT

MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)

QTY: 2 EACH

#4-40 X 1/2" FILLISTER HEAD CAPTIVE SCREW
MATERIAL - STEEL
FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)
QTY: 2 EACH

#4 SADDLE WASHER

MATERIAL — STEEL

FINISH — BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)

QTY: 2 EACH

NO LOGO NORTECH LOGO
Northern Tochnologies

# PART NUMBER INFORMATION

PART#	LOGO STYLE	SUPPLIED
F30E200000	NO LOGO	BULK
F88E200000	NO LOGO	PACKAGED
F30E201000	NORTECH LOGO*	BULK
F88E201000	NORTECH LOGO*	PACKAGED

\* - SPECIAL ORDER ITEM - CONTACT NORTHERN TECHNOLOGIES

# CONNECTOR COVER:

1.MATERIAL: ABS COMPOUND UL94V-0

2.FINISH: NICKEL PLATING PER NTC SPECIFICATION N/T 000500

3. DIMENSIONS: INCHES [MM] 4. TOLERANCE: ±0.015 [0.381]

COMPRESSION INSERT TREE

1.MATERIAL: THERMOPLASTIC 94V-0

2.COLOR: BLACK

3.DUROMETER: 75 ±5 TYPE A PER ASTM D2240

4.DIMENSIONS: INCHES [MM] 5.TOLERANCE: ±0.020 [0.508]

COMPRESSION QTY. 1	N INSERT T	REE	
		J	

- Ø0.210 [5.33][]

- Ø0.285 [7.24][]

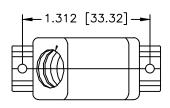
- Ø0.315 [8.00]

Ø0.255 [6.48[] —

Ø0.320 [8.13][]-

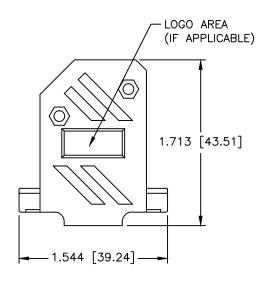
THIS IS A CONTROLLED DOCUMENT AND IS SUBJECT TO CHANGE. CONTACT NORTHERN TECHNOLOGIES ENGINEERING FOR THE LATEST REVISION.

	UNLESS OTHERWISE SPECIFIED  1. ALL DIMENSIONS ARE IN		NOT CITED IN NORTHERN NOT BE F			AVING IS THE PROPERTY OF IN TECHNOLOGIES AND SHOULD REPRODUCED WITHOUT NORTHERN OGIES WRITTEN PERMISSION.		
	INCHES (MM) 2. DIMENSIONS		PAR	T NUMBER	SEE PA	ART NUMBER INF	ORMATION	
19 10 10 10 10 10 10 10 10 10 10 10 10 10						MP 09 45 DEGREE EXIT NO PIECE METALIZED PLASTIC COVER FR		
	CHECKED SCN	01-JUL-05	SIZE B	CODE 20	0_170	DWG NO.	2-200-170	REV E
	ISSUED	01-JUL-05	SCALE	E 1:1			SHEET 1 OF 1	



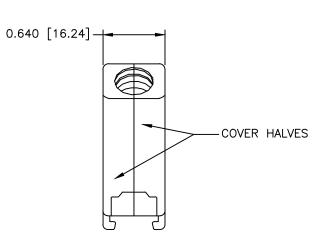
# THIS PRODUCT IS

		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
	Α	ECN 0604	10-AUG-06	
	В	ECN 0755	12-NDV-14	
	С	ECN 0846	19-FEB-24	



\_\_ Ø0.210 [5.33][]

- ø0.285 [7.24][]





#4-40 X 7/16" FILLISTER HEAD MACHINE SCREW MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH



#4-40 #2 BLANK HEX NUT MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH



#4-40 X 1/2" FILLISTER HEAD CAPTIVE SCREW MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH



#4 SADDLE WASHER MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)

QTY: 2 EACH



NORTECH LOGO



# PART NUMBER INFORMATION

PART#	LOGO STYLE	SUPPLIED
F30E210000	NO LOGO	BULK
F88E210000	NO LOGO	PACKAGED
F30E211000	NORTECH LOGO	BULK
F88E211000	NORTECH LOGO	PACKAGED

## CONNECTOR COVER:

1.MATERIAL: ABS COMPOUND UL94V-0

2.FINISH: NICKEL PLATING PER NTC SPECIFICATION N/T 000500

3. DIMENSIONS: INCHES [MM] 4.TOLERANCE: ±0.015 [0.381]

# COMPRESSION INSERT TREE

1.MATERIAL: THERMOPLASTIC 94V-0

2.COLOR: BLACK

UNLESS OTHERWISE

3.DUROMETER: 75 ±5 TYPE A PER ASTM D2240

4.DIMENSIONS: INCHES [MM] 5.TOLERANCE: ±0.020 [0.508]

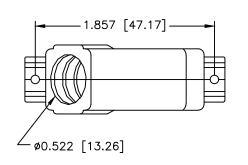
Northern

Ø0.320 [8.13][]	, Ø.315 [8.00]
COMPRESSION INSERT TREE QTY. 1	
	ZZ ZZ

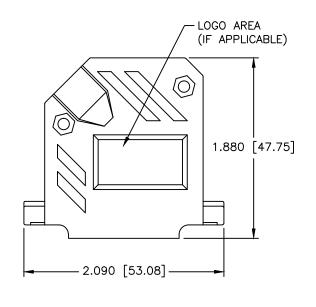
Ø0.255 [6.48[] ¬

THIS IS A CONTROLLED DOCUMENT AND IS SUBJECT TO CHANGE. CONTACT NORTHERN TECHNOLOGIES ENGINEERING FOR THE LATEST REVISION.

UNLESS OTHERWISE SPECIFIED  1. ALL DIFFENSIONS ARE IN			rthern chnolog	jies	N N	THIS DRAVING IS THE PROPERTY OF NORTHERN TECHNOLOGIES AND SHOULD NOT BE REPRODUCED WITHOUT NORTHERN TECHNOLOGIES WRITTEN PERMISSION.			
INCHES (MM) 2. DIMENSIONS ARE TYPICAL			PART NUMBER SEE PART NUMBER INFORMATION						
DRAWN JSD	01-JUL-05	DESCRIPTION CMP 15 45 DEGREE EXIT TWO PIECE METALIZED PLASTIC COVER FR							
CHECKED SCN	01-JUL-05	SIZE	CODE 20	0_171	DWG NO. 000	2-200-171	REV C		
ISSUED	01-JUL-05	SCALE	E 1:1			SHEET 1 OF 1			

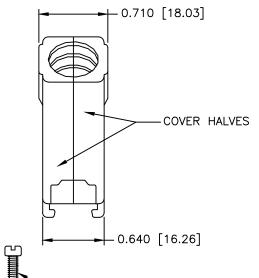


REVISIONS									
ZONE	REV	DESCRIPTION	DATE	APPROVED					
	Α	ECN 0579	06-□CT-05						
	В	ECN 0603	10-AUG-06						
	С	ECN 0846	19-FEB-24						



- ø0.300 [7.62]

Ø0.230 [5.84]



#4-40 X 7/16" FILLISTER HEAD MACHINE SCREW MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH

#4-40 #2 BLANK HEX NUT MATERIAL - STEEL FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)

#4-40 X 1/2" FILLISTER HEAD CAPTIVE SCREW MATERIAL - STEEL FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH

#4 SADDLE WASHER MATERIAL - STEEL

QTY: 2 EACH

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE) QTY: 2 EACH

NO LOGO

NORTECH LOGO



# iorthorn fachnologies

# PART NUMBER INFORMATION

PART#	LOGO STYLE	SUPPLIED
F30E220000	NO LOGO	BULK
F88E220000	NO LOGO	PACKAGED
F30E221000	NORTECH LOGO*	BULK
F88E221000	NORTECH LOGO*	PACKAGED

\* - SPECIAL ORDER ITEM - CONTACT NORTHERN TECHNOLOGIES

# CONNECTOR COVER:

- 1.MATERIAL: ABS COMPOUND UL94V-0
- 2.FINISH: NICKEL PLATING PER NTC SPECIFICATION N/T 000500 3.DIMENSIONS: INCHES [MM]
- 4.TOLERANCE: ±0.015 [0.381]

# COMPRESSION INSERT TREE

- 1.MATERIAL: THERMOPLASTIC 94V-0
- 2.COLOR: BLACK
- 3.DUROMETER: 75 ±5 TYPE A PER ASTM D2240
- 4. DIMENSIONS: INCHES [MM] 5.TOLERANCE: ±0.020 [0.508]

- COMPRESSION INSERT TREE

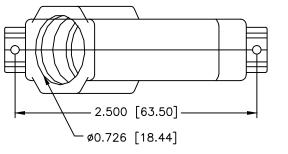
QTY. 1

Ø0.410 [10.41] -

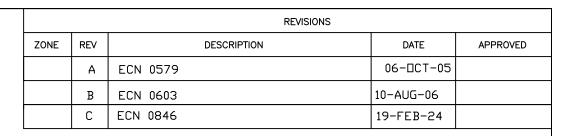
Ø0.450 [11.43]

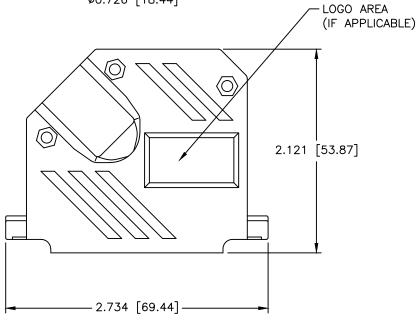
THIS IS A CONTROLLED DOCUMENT AND IS SUBJECT TO CHANGE. CONTACT NORTHERN TECHNOLOGIES ENGINEERING FOR THE LATEST REVISION.

UNLESS OTHERWISE SPECIFIED  1. ALL DEPENDIONS ARE IN			rthern chnolog	HER TIERR TECHNOLOGIES HAD SHOOLD				RN	
INCHES (MM) 2. DIMENSIONS ARE TYPICAL					ART NUMBE				
DRAWN		DES	OIVII IIOIV		45 DEGRE				
JSD	01-JUL-05			TWO PIE	CE METALIZ	ED F	PLASTIC COVER FR		
CHECKED		SIZE	CODE		DWG NO.				REV
SCN	01-JUL-05	В	200	)_172		0002	2-200-172		С
ISSUED	01-JUL-05	SCALE	E 1:1		•		SHEET 1 OF 1	'	



# THIS PRODUCT IS DISCONTINUED

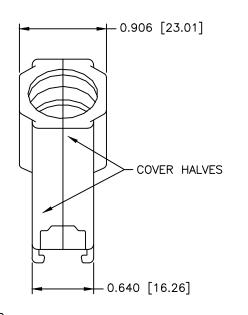




- Ø0.650 [Ø16.51] — Ø0.620 [Ø15.75]

- ø0.350 [ø8.89]

Ø0.570 [Ø14.48]



#4-40 X 7/16" FILLISTER HEAD MACHINE SCREW
MATERIAL - STEEL
FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)
QTY: 3 EACH

#4-40 #2 BLANK HEX NUT

MATERIAL - STEEL

FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)

QTY: 3 EACH

#4-40 X 1/2" FILLISTER HEAD CAPTIVE SCREW
MATERIAL - STEEL
FINISH - BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)
QTY: 2 EACH

#4 SADDLE WASHER
MATERIAL — STEEL
FINISH — BRIGHT ZIN

FINISH — BRIGHT ZINC (HEXAVALENT CHROMIUM FREE)
QTY: 2 EACH

THIS IS A CONTROLLED DOCUMENT AND IS SUBJECT TO CHANGE. CONTACT NORTHERN TECHNOLOGIES ENGINEERING FOR THE LATEST REVISION.



NO LOGO

NORTECH LOGO

## Northern Technologies

# PART NUMBER INFORMATION

PART#	LOGO STYLE	SUPPLIED
F30E230000	NO LOGO	BULK
F88E230000	NO LOGO	PACKAGED
F30E231000	NORTECH LOGO*	BULK
F88E231000	NORTECH LOGO*	PACKAGED

\* - SPECIAL ORDER ITEM - CONTACT NORTHERN TECHNOLOGIES

# CONNECTOR COVER:

1.MATERIAL: ABS COMPOUND UL94V-0

2.FINISH: NICKEL PLATING PER NTC SPECIFICATION N/T 000500

3. DIMENSIONS: INCHES [MM]

4.TOLERANCE: ±0.015 [0.381]

# COMPRESSION INSERT TREE

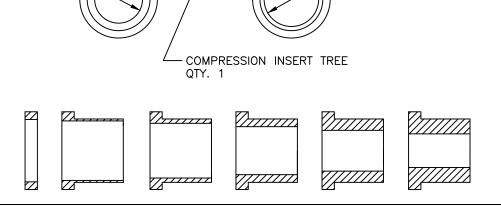
1.MATERIAL: THERMOPLASTIC 94V-0

2.COLOR: BLACK

3.DUROMETER: 75 ±5 TYPE A PER ASTM D2240

4.DIMENSIONS: INCHES [MM] 5.TOLERANCE: ±0.020 [0.508]

UNLESS OTHERWISE SPECIFIED  1. ALL DIMENSIONS ARE IN INCHES (MM) 2. DIMENSIONS ARE TYPICAL		Northern Technologies			NE NE	THIS DRAWING IS THE PROPERTY OF NORTHERN TECHNOLOGIES AND SHOULD NOT BE REPRODUCED WITHOUT NORTHERN TECHNOLOGIES WRITTEN PERMISSION.	
		PART NUMBER SEE PART NUMBER INFORMATION					
DRAWN JSD	01-JUL-05	DESCRIPTION CMP 37 45 DEGREE EXIT TWO PIECE METALIZED PLASTIC COVER FR					
CHECKED SCN		SIZE	CODE		DWG NO.		REV
	01-JUL-05	В	20	0_173	000	0002-200-173 C	
ISSUED	01-JUL-05	SCALE	E 1:1			SHEET 1 OF 1	



ø0.425 [ø10.79] –

Ø0.500 [Ø12.70]