

Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Material Type: ZFRT Description: Edwards Flex Shaft Commander 155885
 Production Version: 7987 Order Type: ZSTD
 Plant / Business Unit: 1213 / AC5 Project Phase:

Opr No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
50	KITTING3 Kitting Devices 	<p>Kitting Devices Perform Order Kitting, Load Minor Mandrels, Dry Extrusions, and Cut FEP Record Time Extrusions Enter Dryer (Initial/Time/Date): <u>Xc31 7:40AM 19FEB24</u> Record Time Extrusions First Exit Dryer (Initial/Time/Date): <u>Xc31 7:40AM 20FEB24</u> Xc31 20FEB24 Record Dryer Shelf #: <u>N/A</u> <u>(Xc31 20FEB24)</u></p>				

Notes: DA - 284 - ① DA2484, 2564

N/A

N/A

Date Printed: 02/16/2024 / 01:07:57

Page: 1 of 18



SA0155-01

CREGANNA MEDICAL
is part of



① DV078 20Feb24

Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details					Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
MF MA	SA0155-01	RM0158-01	E	F	PC	200	N/A	N/A		
		1000-1153-01	A	A	PC	594	BB018 N/A 90170 890166 90168 90171	118 N/A 100 62 200 213		
		1000-2053-01	A	A	PC	500	1000295725 X1FEB24 90170 N/A	500		
		MM1537-02	A	A	PC	500	0000290571	N/A		
		TL0167-02	E	① N/A	PC	70	N/A	N/A		
		TL0165-05	J	J	PC	5	N/A	Bulk	MA	MA N/A
		TL0165-03	J	J	PC	5	N/A	Bulk		
							N/A	Bulk		

Notes:

MA

MA

MA

Date Printed: 02/16/2024 / 01:07:57

① Error Correct
Batch #:
BV57 16 FEB 24

① 16 FEB 24 BV57

Page: 2 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details						Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
<i>N/A</i>	141967-01	02	<u>02</u>	PC	500	<u>87435</u>	<u>507</u>				
	RM7349-02	C	<u>C</u>	PC	543	<u>90040</u>	<u>N/A</u>	<u>500</u>			
	RM7348-01	C	<u>C</u>	PC	500	<u>85677</u>	<u>N/A</u>	<u>600</u>			
	RM4001-01	B	<u>B</u>	PC	125	<u>89583</u>	<u>100</u>				
					XCB31 21FEB24	<u>89603</u>	<u>N/A</u>				
	RM0607-01	D	<u>D</u>	PC	56	<u>78322</u>	<u>27</u>				
	RM0498-01	C	<u>C</u>	PC	500	<u>0000275493</u> <u>0000287649</u> <u>0000287650</u> <u>0000301684</u>	<u>N/A</u> <u>44</u> <u>292</u> <u>49</u> <u>100</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
	RM0009-04	I	<u>I</u>	PC	1	<u>88993</u>	<u>Bulk</u>				
	RM0009-04	I	<u>I</u>	PC	1	<u>88993</u>	<u>Bulk</u>				

Notes:

N/A

N/A

N/A

Date Printed: 02/16/2024 / 01:07:57

Page: 3 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details						Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
		MM1538-01	A	A	PC	500	N/A	Bulk			
							0000290562	500			
		MM1537-01	A	A	PC	1000	N/A	N/A			
							0000294701	N/A			
		MM0177-01	C	C	PC	500	0000294697	500			
							N/A	N/A			
		MM0180-01	E	E	PC	500	0000295774	500			
							N/A	N/A			
		MM0178-01	E	E	PC	500	0000290565	500			
							N/A	N/A			
		MM0176-01	D	D	PC	500	0000288413	500			
							N/A	N/A			
		MM0074-01	G	G	PC	500	0000303766	525			
							N/A	N/A			

Notes:

n/a

n/a
n/a

Date Printed: 02/16/2024 / 01:07:57

① Errors correct
Batch # 0000294701
BV57 16FEB24

Page: 4 of 18

16FEB24 8:07



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
MA	N/A		MA	MA	MA	MA
100	CATASY01 Catheter Assembly 1  Line Clearance Confirmation Reqd(Milestone)	Line Clearance Perform Line Clearance and Heat Gun Setting	500	0	① 21Feb24	V078
150	CATASY01 Catheter Assembly 1  Major and Minor Mandrel Assembly	Major and Minor Mandrel Assembly	500	0	② 21Feb24 S97 V078 JY90 PM TG	

Notes:

MA
MA
MA

Date Printed: 02/16/2024 / 01:07:57

Page: 5 of 18



SA0155-01

① PY46 21Feb 24

CREGANNA MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
MIA	Confirmation Reqd(Milestone)		MIA	MIA	MIA	MIA
200	CATASY01 Catheter Assembly 1  Loading Braid Stock Confirmation Reqd(Milestone)	Loading Braid Stock	500	0	21Feb24	EP22 EO1 DX35
250	CATASY01 Catheter Assembly 1  Trim Braid Wire at Proximal End		500	0	21Feb24	CL05 ny35

Notes:

MIA

MIA

MIA

Date Printed: 02/16/2024 / 01:07:57

Page: 6 of 18



SA0155-01

①P46 22 Feb 24

CREGANNA MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	Trim Braid Wire at Proximal End Confirmation Reqd(Milestone)		N/A	N/A	N/A	N/A
300	CATASY01 Catheter Assembly 1  Insert Cut Hypo Tube Confirmation Reqd(Milestone)	Insert Cut Hypo Tube	900	0	21Feb24	SH23 AS31
350	CATASY01 Catheter Assembly 1	Load Tubing	900	0	21Feb24	ST96 GS22

Notes:

	N/A
	N/A
	N/A

Date Printed: 02/16/2024 / 01:07:57

Page: 7 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	 Load Tubing Confirmation Reqd(Milestone)			N/A	N/A	N/A
400	 CATASY01 Catheter Assembly 1 Reflow Confirmation Reqd(Milestone)	Reflow	500	0	21Feb24	SX60 SA85 PM96
450	 CATASY01 Catheter	FEP Removal	500	0	21Feb24	P266 JY90 AT39 PM96

Notes:

MA
MA
MA

Date Printed: 02/16/2024 / 01:07:57

Page: 8 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	Assembly 1 FEP Removal Confirmation Reqd(Milestone)	N/A	N/A	N/A	N/A	N/A
500	CATASY01 Catheter Assembly 1 In-process Inspection and Rework Material Consumed: Part # 1060-1153-0 Batch #: 90168 Qty: 10 Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A	In-process Inspection and Rework Material Consumed: Part # 1060-1153-0 Batch #: 90168 Qty: 10 Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A Part #: N/A Batch #: N/A Qty: N/A	479	EW-HHHHH LTT WT-1 OF-III SCR-1 (21)	21FeN R66 Y291 LL61 CB81	R66 Y291 LL61 CB81
MA	MA	MA	MA	MA	MA	MA
Notes:						

Date Printed: 02/16/2024 / 01:07:57

Page: 9 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC

Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
550	CATASY01 Catheter Assembly 1 	Remove Heat Shrink & Mandrel Remove Heat Shrink & Mandrel Confirmation Reqd(Milestone)	477	MAH-1 DL-1 (2)	21Feb24	MV8 AX82 RS23 FB01 DY29
600	CATASY01 Catheter Assembly 1 	Distal Tip Assembly	477	0	21Feb24	ML60 PH59 FB01

Notes:

N/A

N/A

N/A

Date Printed: 02/16/2024 / 01:07:57

Page: 10 of 18



SA0155-01

CREGANNA
MEDICAL
is part of





Material: SA0155-01 Rev F

PC
Sheet: 1 of 1

Opr No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
MAT	Reqd(Milestone)	NA	NA	NA	NA	NA
650	CATASY01 Catheter Assembly 1 	Loading Heat Shrink	475	DU-II ②	21Feb24	MM02 PH59 AX82 FB01
	Loading Heat Shrink					
	Confirmation Reqd(Milestone)					
700	CATASY01 Catheter Assembly 1 	Tipping Record Tipping Oven Information: TMI: 0521 Cal Due: 31 May 24 TMI: 0386 Cal Due: 31 May 24 TMI: 2083C Cal Due: 31 May 24 TMI: 0936A Cal Due: 31 May 24 Tipping	475	0	21Feb24	MR78 STX48 Hv36 AX82
Notes:						
MAT						
MAT						

Date Printed: 02/16/2024 / 01:07:57

Page: 11 of 18



SA0155-01

CREGANNA
MEDICAL
is part of

Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC

Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
NP	Confirmation Reqd(Milestone)	MA	MA	N/A	N/A	N/A
750	CATASY01 Catheter Assembly 1 Tip Inspection/ Flash Removal Confirmation Reqd(Milestone)	<p>Tip Inspection/ Flash Removal</p> <p>Material Consumed:</p> <p>Part #: Pn 4001-01 Batch #: 89583 Qty: 12</p> <p>Part #: Pn 0607-01 Batch #: 87322 Qty: 5</p> <p>Part #: N/A Batch #: N/A Qty: N/A</p> <p>Part #: N/A Batch #: N/A Qty: N/A</p> <p>Part #: N/A Batch #: N/A Qty: N/A</p>	470	EH-LH (5)	21Feb24	PP40 STX48 Hv36
800	CATASY01 Catheter Assembly 1 Major Mandrel Removal		457	ACD-HH HH III (13)	21Feb24	KT26 SSH

Notes:

MA

N/A

N/A

Date Printed: 02/16/2024 / 01:07:57

Page: 12 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC

Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	Major Mandrel Removal Confirmation Reqd(Milestone)	n/a	n/a	n/a	n/a	MA
850	CATASY01 Catheter Assembly 1  Cut to Length Confirmation Reqd(Milestone)	Cut to Length Record DIM05 gage result for the first 5 parts at the start of operation: 1. <u>passed</u> 2. <u>passed</u> 3. <u>passed</u> 4. <u>passed</u> 5. <u>passed</u>	455	SKV-11 (2)	21 Feb 24	ML65 SS52
900	QUALITY1 Quality Inspection & Review	Quality Inspection and Review Perform Quality Inspection per QIP Document #3107610 Record Data in SAP ROS	n/a	n/a	n/a	SHad MVB3 HT72

Notes:

MA

MA
MA

Date Printed: 02/16/2024 / 01:07:57

Page: 13 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500

PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	Quality Inspection & Review Confirmation Reqd(Milestone)	Re-Inspect after re-work. Required Inspection Visual/OD Inspection Record Inspection Data in SAP ROS Record Laser Micrometer Information: TMI: <u>0700-01</u> Cal Due: <u>31 May 24</u> TMI: <u>N/A</u> Cal Due: <u>N/A</u> TMI: <u>N/A</u> Cal Due: <u>N/A</u> Material Consumed: Part #: <u>Bu400L0</u> Batch #: <u>89583</u> Qty: <u>16</u> Part #: <u>100-1153-01</u> Batch #: <u>90166</u> Qty: <u>N/A</u> Part #: <u>N/A</u> Batch #: <u>N/A</u> Qty: <u>N/A</u> Part #: <u>N/A</u> Batch #: <u>N/A</u> Qty: <u>N/A</u> Part #: <u>N/A</u> Batch #: <u>N/A</u> Qty: <u>N/A</u>	215	WK-LHTII #105-II EW-LHT #903-1 Fm-1111 Del-11 DIS-1111 #903-1 #703-LHT DL-11 EH-1 #543-1111 MAR-1(40)	24 feb 2024 SK155 P44b KT217	TRN my28
950	QUALITY1 Quality Inspection & Review	Quality Inspection & Review Borescope Inspection Record Inspection Data in SAP ROS Record Tip Gage Information: TMI: <u>N/A</u> Cal Due: <u>N/A</u> Record Caliper Information:	N/A	N/A	N/A	N/A

Notes:

N/A

N/A

N/A

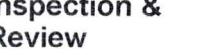
Date Printed: 02/16/2024 / 01:07:57



SA0155-01



Material: SA0155-01 Rev F

Opr No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
	 Quality Inspection & Review <i>MA</i> Confirmation Reqd(Milestone)	TMI: <u>v/A</u> Cal Due: <u>v/A</u> Record DIM02 Go/No-Go Gage Information: TMI: <u>0691</u> Cal Due: <u>30 Sep 25</u> TMI: <u>0692</u> Cal Due: <u>30 Sep 25</u> Record DIM02 Inspection Results N = 54: Pass: <u>50</u> Fail: <u>0</u>	409	DIS-144 (CSP) <u>⑥</u>	<u>21 Feb 24</u>	<u>Y936</u>
1000	QUALITY1  Quality Inspection & Review Leak Test Record Inspection Data in SAP ROS Record Leak Tester Information: TMI: <u>1056</u> Cal Due: <u>31 May 24</u> Record Length Gage Information: TMI: <u>08990</u> Cal Due: <u>30 Sep 24</u> Record Calibrated Ruler Information: TMI: <u>0629</u> Cal Due: <u>30 Sep 24</u>  Quality Inspection & Review Confirmation Reqd(Milestone)	405	L7-1111 <u>④</u>	<u>21 Feb 24</u>	<u>Y936</u> <u>SG88</u> <u>SS44</u>	

Notes:

MA
*NIA**MA*

Date Printed: 02/16/2024 / 01:07:57

Page: 15 of 18



SA0155-01

CREGANNA
MEDICAL
is part of

Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opt No.	Planned WorkCenter Description	Operation Details	Comp Qty.	Scrap Qty & Desc.	Date Comp.	Initials
N/A	N/A	N/A	N/A	N/A	N/A	N/A
1050	QUALITY1 Quality Inspection & Review  Quality Inspection & Review Confirmation Reqd(Milestone)	Required Inspection Visual Final Inspection Perform Quality Inspection per QIP Document #3107610 Record Data in SAP ROS	380	SCR - 1M (TT) FM - 1M (TT) DL - 1M (TT) DEL - 1 DL - 1M EW - 1 VD - 1M SKV - 1M PBC - 1 DIS - 1M (25)	21 Feb 24	SV43 XN2b
1100	CATASY01 Catheter Assembly 1  Line Closure	Line Closure Perform Line Closure Settle materials issued to production order (Initials/Date): XC31 21FEB24	N/A	N/A	21FEB24	XC31
Notes:						
N/A						
N/A						
N/A						

Date Printed: 02/16/2024 / 01:07:57

Page: 16 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Opn No.	Planned WorkCenter Description	Operation Details	Comp. Qty.	Scrap Qty & Desc.	Date Comp.	Initials
1100	Confirmation Reqd(Milestone)	N/A	N/A	N/A	N/A	N/A
1150	PACKINT1 Packing assembly Package Confirmation Reqd(Milestone)	Package Package, Label, and Ship Finished Parts	380	O	23 Feb 24	AP10

Notes:

N/A AP10 23 Feb 24

Date Printed: 02/16/2024 / 01:07:57

Page: 17 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Production Order: 500000307854



Production Order Document
Production Order Qty: 500
PC
Sheet: 1 of 1

Material: SA0155-01 Rev F

Batch Number: 00000307854

By: Af10

Date: 23 Feb 24

Reviewed By:

RB29

Date:

23 Feb 24

Notes:

N/A Af10 23 Feb 24

Date Printed: 02/16/2024 / 01:07:57

Page: 18 of 18



SA0155-01

CREGANNA
MEDICAL
is part of



Title	Approval Name	Approval Signature	Date
Mgr. Quality Engineering	Hai Nguyen		25 Jul 2023
Mgr. Manufacturing Engineering	Jake Stanislawski		25 Jul 2023
Mgr. Operations	Matthew Benson		25 Jul 2023

FM0002.RevF Deviation Authorization

CONTROLLED COPY

① UK55, 23JW 2023

CREGANTNA
MEDICAL
is part of
=TE

DA | 2484
2468*
①

Description/Objectives of Training:
DA- Inspection at final QC, Op#1050.

Group Training Record

Procedure:

- 100% inspection at Op#1050 per the instructions below.
- Inspect 1 part at a time.
- Inspection is focused on the correct MM0179-01 and MM1536-01 assembly.
- Use the example MM0179-01 and MM1536-02 fixture for inspection. (See image 1)
① **MM1536-01** **Type Connection TS12** 10AUG23



Image- 1

Step 1:

- Visually locate the MM0180-01 (Vestamid) transition to MM0179-01 on the completed part approximately 9.75" from the distal end using magnification light 2.25X minimum.
- Align the fixture MM0179-01 extrusion proximal end to the Vestamid transition on completed part. (See image 2)



Image- 2

- Visually verify the MM0179-01 distal end of the fixture is approximately at the same location on the completed part. (See image 3)

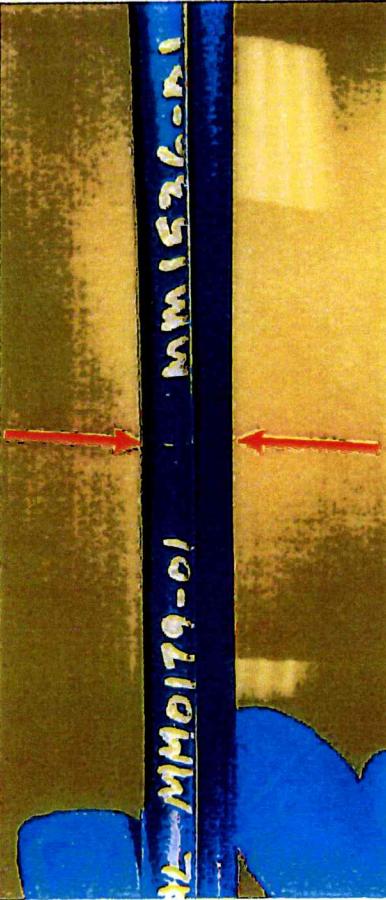


Image- 3

- Scrap the part if the transition is not approximately aligned. Save the scrapped parts for Engineer review.
- If the part transition is aligned, move to Step 2.

CONTROLLED COPY

Step 2:

- Visually verify the MM1536-01 distal end of the fixture is approximately at the same location on the completed part. (See image 4)

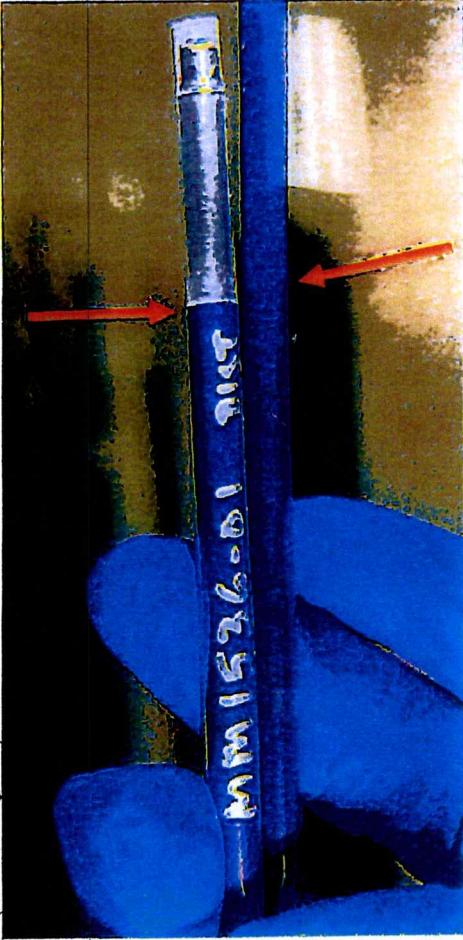


Image- 4

Scrap the part if the transition is not approximately aligned. Save the scrapped parts for Engineer review.

- If the part transition is aligned, the part passes inspection.
- Use Image 5 as a guide for GOOD and BAD extrusion transition alignment.

1	MM0179-01 GOOD PART	MM1536-01
2	MM1536-01	MM0179-01 MM0179-01 and MM1536-01 Wrong Order - BAD PART
3	MM0179-01 Two MM0179-01 - BAD PART	MM0179-01
4	MM1536-01 Two MM1536-01 - BAD PART	MM1536-01

Image - 5

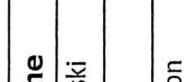
DEVIATION AUTHORIZATION FORM

Requestor Name: Krishna Selvaraj	
Document Number Affected	Revision
Doc #3005206 (MPI0238)	BP
Deviation From:	
Doc #3005206 (Flex Commander MPI0238): OPER850.11: Using a laser micrometer, check the DIM06 outer diameter. Position the laser indicator as close to the distal edge as possible. Start the measurement, then slowly move the part through the laser micrometer until reaching the lower edge of the shoulder.	
Deviation To:	
Doc #3005206 (Flex Commander MPI0238): OPER850.11: Using a laser micrometer at OPER900 (TMI0700-01) , check the DIM06 outer diameter. Position the laser indicator as close to the distal edge as possible. Start the measurement, then slowly move the part through the laser micrometer until reaching the lower edge of the shoulder.	

Justification:

TMI0602 lasermic which is currently used in SA0155-01 Flex commander product at OPER850 for Dim 6 inspection has mechanical failure and confirmed as not usable.

TMI0700-01 lasermic is used at OPER900 for 100% inspection for Dim 1, Dim 6 and Dim 9. Since TMI0700-01 is already qualified to inspect Dim 6 per ES0647: Laser micrometer equivalency test, there is no additional risk in using TMI0700-01 for OPER850 Dim 6 inspection till TMI0602 issue is resolved.

Part Number Affected	Revision	
SA0155-01	H	
Start Date:	End Date:	Lot Number:
16 Nov 23	15 DEC 23	N/A
Risk Assessment:		
Is there any potential risk(s) that may occur as a result of the proposed deviation including the following: Control Plans <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No FMEAs <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Validations <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Details (if any): N/A		
If yes to any of the above, what controls are being put in place to mitigate the risk – N/A		
Corrective Action Required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If no, explain: This is a temporary change to use TMI0700-01. DA will be removed once the lasermic TMI0602 issues are resolved and accepted for usage.		
Training Required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: N/A		
Title	Approval Name	Approval Signature
Engineering Manager	Jake Stanislowski	
Quality Manager	Jay Zabel	
Operations Manager	Matthew Benson	
		Date
		16 Nov 2023
		16 Nov 2023
		16 Nov 2023



Document No: 5105589

FM5104665 Rev: C

Document Type: Manufacturing Form

Title: SA0155-01 Reflow Log Sheet Form

PRODUCTION ORDER#: 500000307854

OP 400

Oven #	Cycle #	Time In	Temp. In (Actual)	Initials	Date	Time Out	Temp. Out (Actual)	Initials	Date	Qty
JM10745	44	9:15pm	430	SH85	20Feb24	9:27pm	415	SH85	20Feb24	16
JM10745	44	9:40pm	429	SX60	20Feb24	9:52pm	415	SH85	20Feb24	16
JM10745	① 44	10:16pm	429	SX60	20Feb24	10:28pm	415	SX60	20Feb24	16
JM10745	44	10:40pm	429	SX60	20Feb24	10:52pm	415	SX60	20Feb24	16
JM10745	44	11:05PM	429	AT39	20Feb24	11:17pm	415	SX60	20Feb24	16
JM10745	44	11:55pm	429	SX60	20Feb24	12:07AM	415	SX60	21Feb24	16
JM10745	44	12:25AM	429	SX60	21Feb24	12:37AM	415	SY47	21Feb24	16
JM10745	44	1:00 AM	430	SY90	21Feb24	1:12 AM	415	SY47	21Feb24	16
JM10745	44	1:24 AM	430	SG88	21Feb24	1:36AM	415	SG88	21Feb24	16
JM10745	44	1:57AM	428	SX60	21Feb24	2:09 AM	415	V078	21Feb24	14
JM10745	44	5:35am	430	TA36	21Feb24	5:47am	415	TA36	21Feb24	16
JM10745	44	6:00 am	430	TA36	21Feb24	6:12am	415	TA36	21Feb24	16

(1) P446 22 Feb 24 correction for SX60



Document No: 5105589

FM5104665 Rev: C

Document Type: Manufacturing Form

Title: SA0155-01 Reflow Log Sheet Form

PRODUCTION ORDER# 500000307854

OP 400



Document No: 5105589

FM5104665 Rev: C

Document Type: Manufacturing Form

Title: SA0155-01 Reflow Log Sheet Form

PRODUCTION ORDER# 500000307854

OP 400

Oven #	Cycle #	Time In	Temp. In (Actual)	Initials	Date	Time Out	Temp. Out (Actual)	Initials	Date	Qty
Tm10942	44	9:03pm	430	SX60	20Feb24	9:15pm	415	SX60	20Feb24	16
Tm10942	44	9:28pm	428	SH85	20Feb24	9:40pm	415	SH85	20Feb24	16
Tm10942	44	9:57pm	430	SH85	20Feb24	10:09pm	415	SH85	20Feb24	16
Tm10942	44	10:29pm	429	SH85	20Feb24	10:41pm	415	SH85	20Feb24	16
Tm10942	214	10:55pm	①248 ₄₂₈	SX60	20Feb24	11:07pm	415	SX60	20Feb24	16
Tm10942	44	11:43PM	430	Sy47	20Feb24	11:53PM	415	Sy47	20Feb24	16
Tm10942	44	12:16AM	430	SX60	21Feb24	12:28AM	415	SX60	21Feb24	16
Tm10942	44	12:40AM	428	Sy47	21Feb24	12:52AM	415	Sy47	21Feb24	16
Tm10942	44	1:12AM	430	Sy47	21Feb24	1:24AM	415	Sy47	21Feb24	16
Tm10942	44	1:44AM	429	SX60	21Feb24	1:56AM	415	V078	21Feb24	16
Tm10942	44	5:20am	430	TA36	21Feb24	5:32am	415	TA36	21Feb24	16
Tm10942	44	5:50am	430	TA36	21Feb24	6:02am	415	TA36	21Feb24	16

(1) SX60 20Feb24



Document No: 5105589

FM5104665 Rev: C

Document Type: Manufacturing Form

Title: SA0155-01 Reflow Log Sheet Form

PRODUCTION ORDER# 500000307854

OP 400



Document No: 5106073
Rev: E
Document Type: Manufacturing Form
Title: SA0155-01 Visual Rework Form

PO #: 500000307854 OP #: 500 Shift #: 2

Total Parts Reworked:		<u>20</u>	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
AB	Air Bubbles	<u>N/A</u>	0
EH	Exposed Hypotube	<u>///</u>	<u>3</u>
EW	Exposed Wire	<u> </u>	<u>18</u>
MP	Micropores	<u>N/A</u>	0
SCR	Scratch	<u>N/A</u>	0
SKV	Skive Marks	<u>N/A</u>	0
VD	Voids	<u> </u>	<u>2</u>
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	0
Inspected By (Sign and Date):		<u>Anuj</u> 20 Feb 24	

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only.

Data Uploaded for Engineering Review (Check):



Document No: 5106073
Rev: E
Document Type: Manufacturing Form
Title: SA0155-01 Visual Rework Form

PO #: 500000307854

OP #: 500 Shift #: 2nd

Total Parts Reworked:		<u>28</u>	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
AB	Air Bubbles		2
EH	Exposed Hypotube	N/A	N/A
EW	Exposed Wire	/ /	22
MP	Micropores	N/A	N/A
SCR	Scratch	N/A	N/A
SKV	Skive Marks		3
VD	Voids		5
N/A	N/A	N/A	N/A

Inspected By (Sign and Date):

Vamneet Loh 20 Feb 24

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only.

Data Uploaded for Engineering Review (Check):



Document No: 5106073
Rev: E
Document Type: Manufacturing Form
Title: SA0155-01 Visual Rework Form

PO #: 500000307854 OP #: 500 Shift #: 1

Total Parts Reworked:		<u>98</u>	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
AB	Air Bubbles	<u> </u>	<u>12</u>
EH	Exposed Hypotube	<u> </u>	<u>9</u>
EW	Exposed Wire	<u> </u>	<u>69</u>
MP	Micropores	<u>N/A</u>	<u>N/A</u>
SCR	Scratch	<u> </u>	<u>4</u>
SKV	Skive Marks	<u>1</u>	<u>1</u>
VD	Voids	<u> </u>	<u>9</u>
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Inspected By (Sign and Date):

LL61, DY29, CB81, TA36

21 FEB 24

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only.

Data Uploaded for Engineering Review (Check):



PO #: 50000307854

OP #: 750 Shift #: 2nd

Document No: 6102646
Rev: A
Document Type: Manufacturing Form
Title: SA0155-01 Tipping Rework Form

Total Parts Reworked:		7	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
DIM07 OS / WO	DIM07 Oversized (Window Open)		5
DIM07 US / WC	DIM07 Undersized (Window Closed)		2
EH	Exposed Hypotube	N/A	N/A
N/A	N/A	N/A	N/A
Inspected By (Sign and Date):		PP 40	20 Feb 24

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only. DIM01 OS, DIM09 OS, Foreign Material, and Cracks are not reworkable per MPI0238.

Data Uploaded for Engineering Review (Check):



Document No: 6102646
Rev: A
Document Type: Manufacturing Form
Title: SA0155-01 Tipping Rework Form

PO #: 500000307854 OP #: 750 Shift #: 1st

Total Parts Reworked:		84	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
DIM07 OS / WO	DIM07 Oversized (Window Open)		16
DIM07 US / WC	DIM07 Undersized (Window Closed)		5
EH	Exposed Hypotube		21
N/A	Glue , stopper		42
Inspected By (Sign and Date):		Hv36 21 Feb 24	

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only. DIM01 OS, DIM09 OS, Foreign Material, and Cracks are not reworkable per MPI0238.

Data Uploaded for Engineering Review (Check):

Document No: FM5104661

Rev: B

Document Type: Manufacturing Form

Title: SA0155-01 Annealing Log Sheet Form

PRODUCTION ORDER# 500000307854

OP 800

Oven #	Cycle #	Time In	Temp. In (Actual)	Initials	Date	Time Out	Temp. Out (Actual)	Initials	Date	Qty
Tm12036	N/A	11:40PM	190°F	KT26	20Feb24	12:50AM	190°F	KT26	21Feb24	26
Tm10409	N/A	12:10AM	190°F	KT26	21Feb24	1:24AM	190°F	KT26	21Feb24	33
Tm12036	N/A	12:52AM	190°F	KT26	21Feb24	2:02AM	190°F	AT39	21Feb24	33
Tm10409	N/A	4:25am	190°F	K155	21Feb24	5:35am	190°F	K155	21Feb24	40
Tm10409	N/A	5:40am	190°F	SS44	21Feb24	6:50am	190°F	SS44	21Feb24	44
Tm12036	N/A	6:40am	190°F	0521	21Feb24	7:50AM	190°F	P146	21Feb24	60
Tm10409	N/A	8:25AM	190°F	PM96	21Feb24	9:35AM	190°F	PM96	21Feb24	52
Tm12036	N/A	9:10 am	190°F	K155	21Feb24	10:20am	190°F	K155	21Feb24	53
Tm10409	N/A	11:05am	190°F	SS44	21Feb24	12:15 pm	190°F	SS44	21Feb24	46
Tm12036	N/A	11:35am	190°F	K155	21Feb24	12:45pm	190°F	K155	21Feb24	30
Tm10409	N/A	12:15PM	190°F	P146	21Feb24	1:25PM	190°F	P146	21Feb24	40
				MA P146	21Feb24					

OP146 21 Feb 24



Document No: 6102619

Rev: B

Document Type: Manufacturing Form

Title: SA0155-01 Dimensional/Visual Rework Form

PO #: 500000307854 OP #: 900 Shift #: 2nd

Total Parts Reworked:		6	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
AB	Air Bubbles	N/A	0
EH	Exposed Hypotube	N/A	0
EW	Exposed Wire	//	2
MP	Micropores	N/A	0
SCR	Scratch	///	3
SKV	Skive Marks		
VD	Voids		
DIM01 US	DIM01 OD Undersized	N/A SH 04 20 Feb 24	
DIM06 US	DIM06 OD Undersized		
DIM06 OS	DIM06 OD Oversized		
DIM09 US	DIM09 OD Undersized		
Inspected By (Sign and Date):		See H 20 Feb 24	

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only. DIM01 OS, DIM09 OS, Foreign Material, and Cracks are not reworkable per MPI0238.

Data Uploaded for Engineering Review (Check):



Document No: 6102619

Rev: B

Document Type: Manufacturing Form

Title: SA0155-01 Dimensional/Visual Rework Form

PO #: 500000307854 OP #: 900 Shift #: 2

Total Parts Reworked:		12	
Router Code	Defect Failure Mode	Reworkable Defects (Tally)	Total Defects
AB	Air Bubbles	N/A	N/A
EH	Exposed Hypotube	N/A	N/A
EW	Exposed Wire	11	2
MP	Micropores	N/A	N/A
SCR	Scratch	HT HT 11	12
SKV	Skive Marks		
VD	Voids		
DIM01 US	DIM01 OD Undersized		
DIM06 US	DIM06 OD Undersized	N/A 20 Feb 24	
DIM06 OS	DIM06 OD Oversized	HT 12	
DIM09 US	DIM09 OD Undersized		
Inspected By (Sign and Date):		HT 12 20 Feb 24	

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only. DIM01 OS, DIM09 OS, Foreign Material, and Cracks are not reworkable per MPI0238.

Data Uploaded for Engineering Review (Check):



PO #: 500000307854

OP #: 900 Shift #: 1st

Document No: 6102619
Rev: B
Document Type: Manufacturing Form
Title: SA0155-01 Dimensional/Visual Rework Form

Note: Indicate tally marks in groups of 5. Scrap is to be recorded on the SAP router; this form is for reworked parts only. DIM01 OS, DIM09 OS, Foreign Material, and Cracks are not reworkable per MPI0238.

Data Uploaded for Engineering Review (Check):

- CONFIDENTIAL -

Page 1 of 1

Status CURRENT Effective 5/8/2023

Maximum Force Reached During Tensile Test (10 samples accepted from final inspection for each lot shall be selected and tensile tested)																
Sample # →	1	2	3	4	5	6	7	8	9	10	Avg	St Dev	K	Calculated Lower bound	Min Spec	Pass / Fail
Seg A	35.93	33.94	32.98	25.93	29.59	29.97	28.38	28.35	27.58	29.05	30.17	3.129068	4.378	16.4709402	8.542	PASS
Seg B	68.66	68.98	68.2	68.79	72.67	65.35	68.86	75.12	77.22	78.48	71.233	4.3797693	3.981	53.7971385	8.542	PASS
Seg C	82.41	86.28	78.79	86.02	90.13	81.87	87.64	87.1	88.5	74.7	84.344	4.8244866	2.911	70.2999195	8.542	PASS

All Force Values are recorded in Pound-Force and Distance is in Inches
Specification for lower bound is 38N was converted to 8.542Lbf
First Peak Force was collected during test and has been included in the raw data file (this information will not be captured / summarized in the DA due to it is not required to used for DA acceptance.

EDW Commander Flex - Bend and Tensile Strength Testing

LOT #: 500000307854

Date: 22FEB2024

Inspector Name: AUGUSTINE JAH

Equipment ID: TMI0311B

Cal Due Date: 27 OCT 24



22 FEB 2024