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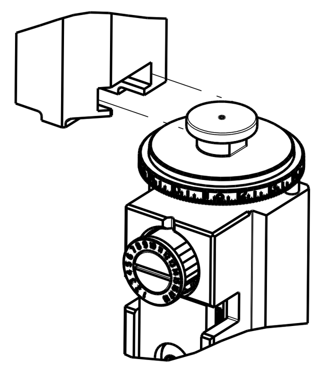
SET UP GAUGE 2119599-2	LOC	DIST
	A	66

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	1	ORIGINAL	10MAY2013	GH	TE
	A	RELEASED	10JUL2013	GH	TE

ATLANTIC VERSION TERMINATOR INTERFACE ADAPTER	PART NUMBER	REVISION	DESCRIPTION	FEED TYPE	APPLICATOR STYLE CONVERSION CHART: CONVERT TO	PART NUMBERS REQUIRED					
	2150342-1	A	FINE CRIMP HEIGHT ADJUST	MECHANICAL	PNEUMATIC FEED	2119950-1	2119792-1	-	2119641-1	-	2063440-1
					SERVO LATCH PLATE	2119951-1	1901697-1	8-2150342-5	-	-	2168400-7 (QUANTITY 2)
					SMART APPLICATOR	2161326-1	-	8-2150342-4	-	-	-
	2150342-2	A	FINE CRIMP HEIGHT ADJUST	PNEUMATIC	MECHANICAL FEED	2119949-1	2063961-1	5-18022-5	2119653-1	-	-
					SERVO LATCH PLATE	2119951-1	1901697-1	8-2150342-5	-	-	2168400-7 (QUANTITY 2)
					SMART APPLICATOR	2161326-1	-	8-2150342-4	-	-	-
	2150342-5	A	FINE CRIMP HEIGHT ADJUST	SERVO LATCH PLATE (4)	MECHANICAL FEED	2119949-1	2063961-1	5-18022-5	2119653-1	-	-
					PNEUMATIC FEED	2119950-1	2119792-1	-	2119641-1	-	2063440-1
	2150342-6	A	NON-CRIMP HEIGHT ADJUST	(4) SERVO LATCH PLATE (12)	-	-	-	-	-	-	-
					-	-	-	-	-	-	-
	2150342-7	A	FINE CRIMP HEIGHT ADJUST	NONE	-	-	-	-	-	-	-
	7-2150342-7	A	CRIMP TOOLING KIT	-	-	-	-	-	-	-	-

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009

APPLICATOR DATA		
CRIMP	SIZE	TYPE
WIRE	1.78 mm [.070]	F
INSUL	3.30 mm [.130]	F
APPL INSTRUCTIONS 408-10390		

TERMINAL DATA: TE TERMINAL		TE CRIMP SPECIFICATION	
TERMINAL NAME: 110 SERIES FASTON RECEPTACLE			
WIRE STRIP LENGTH 3.58-4.34 mm [.141-.171 IN]		INSULATION DIAMETER RANGE ∅2.00-3.00 mm [.079-.118 IN]	
TERMINAL APPLICATION SPECIFICATION	114-20109	-	-
	-	-	-
TERMINALS APPLIED			
TE TERMINAL	TE TERMINAL	TE TERMINAL	TE TERMINAL
160780-1	160780-4	160780-6	
160780-2	160780-5		

WIRE SIZE	CRIMP HEIGHT mm [INCH]	CRIMP HEIGHT REFERENCE SETTING (9)
1.50mm2	1.30+/-0.000 [.051+/-.000]	5.9
1.00mm2	1.17+/-0.000 [.046+/-.000]	7.4
0.75mm2	1.12+/-0.000 [.044+/-.000]	7.9
0.50mm2	1.07+/-0.000 [.042+/-.000]	8.3

(1) RECOMMENDED SPARE PARTS

(2) GREASE BEARING SURFACES LIGHTLY

3. LUBRICATE DAILY PER THE APPLICATOR INSTRUCTION SHEET SUPPLIED WITH THE APPLICATOR.

(4) APPLICATOR SPECIFIC DATA TO BE ENTERED INTO BLANK MEMORY CHIP AT ASSEMBLY. SEE BELOW FOR PART NUMBER:
MECHANICAL FEED WITH "SMART APPLICATOR" CONVERSION: 8-2150342-4
PNEUMATIC FEED WITH "SMART APPLICATOR" CONVERSION: 8-2150342-4
SERVO FEED WITH "FINE CRIMP HEIGHT ADJUST": 8-2150342-5
SERVO FEED WITH "NON-CRIMP HEIGHT ADJUST": 8-2150342-6

5. ADJUSTMENT OF THE STRIPPER MAY BE REQUIRED WHEN MOVING THE APPLICATOR BETWEEN BENCH AND LEADMAKER APPLICATIONS.

(6) APPLY PART NUMBER 1-23419-5 LOCTITE TO THREADS OF ITEMS 50, 62 & 242.
FOR -6 ONLY APPLY PART NUMBER 1-23419-5 LOCTITE TO THREADS OF ITEMS 37, 50 & 242.

(7) GREASE THREADS, GROOVE AND O-RING ON ITEMS 35 & 252.

(8) MAGNET, ITEM 166 MUST BE ORIENTED CORRECTLY IN ORDER TO PROPERLY ACTUATE THE COUNTER.

(9) CRIMP HEIGHT REFERENCE SETTING WAS THE SETTING USED WHEN THE APPLICATOR WAS QUALIFIED AT THE FACTORY. ADJUSTMENT MAY BE NECESSARY WHEN RUNNING APPLICATOR IN THE FIELD.

(10) SPARE FEED CAM STORAGE LOCATION REFER TO INSTRUCTION SHEET FOR ADDITIONAL INFORMATION.

(11) THE RECOMMENDED SET-UP FOR END FEED APPLICATORS IS POST-FEED WITH ITEM 2119653-1. THE APPLICATOR CAN BE CONFIGURED FOR PRE-FEED WITH ITEM 2119652-1 BUT MAY ENCOUNTER PROBLEMS WITH SOME APPLICATIONS. FEED ISSUES OR TERMINAL JAMMING MAY OCCUR IN THE PRE-FEED CONFIGURATION.

(12) WHEN ASSEMBLING -6 NON-CRIMP HEIGHT ADJUST APPLICATOR USE SHIM PACK 2119957-2 TO ALIGN APPLICATOR'S MAXIMUM WIRE CRIMP HEIGHT AT NORMAL TERMINATOR SHUT HEIGHT

*WARNING
ON INSTALLATION, SET WIRE DISC, ITEM 40 TO LARGEST WIRE SIZE SETTING. USE OF SETTINGS BELOW MINIMUM REQUIRED CRIMP HEIGHT SETTING WILL CAUSE DAMAGE TO CRIMP TOOLING.

NOTE	-77	-7	-6	-5	-2	-1	PART NO	DESCRIPTION	ITEM NO
	-	1	1	1	1	1	2119082-9	CAM, SNAIL, INSULATION ADJUSTMENT	244
	-	1	1	1	1	1	2079764-1	WASHER, WAVE SPRING, CREST-TO-CREST	243
	-	1	1	1	1	1	2119083-1	RETAINER, INSULATION DIAL (6)	242
	-	-	2	2	-	-	2168400-7	SHCS, LOW HEAD, RoHS, M5 X 10	240
	-	-	-	-	-	1	2119580-1	MECHANICAL FEED ASSEMBLY	239
	-	-	-	-	1	-	2063440-1	AIR FEED MODULE	238
	-	-	1	1	-	-	2119740-2	TAG, IDENTIFICATION	213
	-	-	REF	REF	-	-	1901697-1	FEED FINGER ASSEMBLY, EF	183
	-	1	1	1	1	1	6-993111-6	PIN, SLOTTED SPRING 3.0 X 14.0	177
	-	1	1	1	1	1	8-22280-7	SPRING, COMPRESSION	176
	-	1	1	1	1	1	1752353-2	GUIDE PIN, HOLDDOWN	175
	-	1	1	1	1	1	1901680-2	GUIDE PIN, HOLDDOWN	174
	-	-	-	-	2	-	21045-3	RING, RETAIN, EXTERN, 3/16 CRESCENT	172
	-	1	1	1	1	1	994969-1	MAGNET, RARE EARTH HIGH ENERGY	166
	-	REF	REF	REF	REF	REF	994970-2	COUNTER, MAGNETIC	164
	-	-	-	-	1	-	240638-1	SPRING, FEED FINGER	163
	-	-	-	-	1	-	3-23627-7	PIN, RETAIN, GRVD, 3/16 X .854	137
	-	-	REF	REF	-	-	SEE NOTE 4	MEMORY CHIP, PROGRAMMED	135
	-	-	1	1	-	-	1633743-1	SERVO FEED LATCH ASM	133
	-	1	1	1	1	1	455888-5	SPACER, CRIMPER	82
	-	1	1	1	1	1	2119791-9	DEPRESSOR, WIRE	73
	-	1	1	1	1	1	2119956-2	DOCUMENTATION PACKAGE	71
	-	2	2	2	2	2	2-18032-2	SCR, SET, FLT POINT M3 X 10.0	70
	-	1	-	-	1	1	2119740-1	TAG, IDENTIFICATION	67
	-	2	2	2	2	2	2168078-1	SCREW, DRIVE, RH, RoHS, 2 x .188	66
	-	1	1	1	1	1	1901681-5	HOLDDOWN, TERMINAL	65
	-	2	2	2	2	2	2168400-5	SHCS, LOW HEAD, RoHS, M4 X 20	64
	-	1	-	1	1	1	2119793-1	LIMITER, ADJUSTMENT BOLT	63
(6)	-	3	-	3	3	3	992763-5	SCR, SET, SOC, CONE POINT, M3 x 4.0	62
	-	1	1	1	1	1	2079383-4	SCR, BHSC, RoHS (M4 X 8)	60
	-	-	-	-	-	1	5-18022-5	SCR, HEX HD CAP, M4 X 6.0	59
	-	-	-	-	-	1	2063961-1	FEED FINGER	58
	-	3	3	3	3	3	2168400-4	SHCS, LOW HEAD, RoHS, M4 X 8	57
	-	2	2	2	2	2	1-2168083-0	SCR, SKT HD CAP, RoHS, M4 X 10	56
	-	2	2	2	2	2	5018030-2	NUT, HEX, REG, RoHS, M4	55
	-	2	2	2	2	2	5018030-1	NUT, HEX, REG, RoHS, M3	54
	-	2	2	2	2	2	986965-8	NUT, LOCK, HEX, TORQUE (M4)	53
	-	1	1	1	1	1	1-5018030-0	NUT, HEX, REG, RoHS, M3.5	52
	-	-	-	-	1	-	2119792-1	PAWL, EF, AIR	51
(6)	-	1	1	1	1	1	1752354-5	STANDOFF, HOLD-DOWN	50
	-	-	-	-	1	2	18023-9	SCR, SKT HD CAP M4 X 6.0	49
	-	-	-	-	-	1	2119652-1	FEED CAM, PRE FEED	48
	-	-	-	-	-	1	2119653-1	FEED CAM, POST FEED	47
	-	1	1	1	1	1	2119655-5	APPLICATOR BASIC ASSEMBLY, EF	46
	-	1	-	1	1	1	2119369-1	RAM, AMP STYLE, END FEED	44
	-	1	1	1	1	1	2079383-7	SCR, BHSC, RoHS (M8 X 25)	41
	-	1	-	1	1	1	2119645-1	DISC, NUMBERED FA WIRE ADJUSTMENT	40
	-	1	-	1	1	1	2119957-1	APPLICATOR SHIM PACK	39
	-	1	1	1	1	1	2119644-1	RAM WASHER, PRECISION	38
(6)	-	1	1	1	1	1	2119085-1	FA HEAD, ATLANTIC STYLE	37
	-	1	-	1	1	1	2119092-1	BOLT, ADJUSTMENT	35
	-	7	7	7	7	7	1-18028-2	WASHER, FLAT, REG M4	33
	-	2	2	2	2	2	2168083-9	SCR, SKT HD CAP, RoHS, M4 X 20	31
	-	2	2	2	2	2	1-2168083-0	SCR, SKT HD CAP, RoHS, M4 X 10	29
	-	1	1	1	1	1	240639-1	STRIPPER (MACHINING)	27
	-	2	2	2	2	2	1320906-1	STUD, THREADED	25
	-	1	1	1	1	1	1752371-5	PLATE, STRIP GUIDE	24
	-	1	1	1	1	1	240825-2	PLATE, STRIP HOLD DOWN	23
	-	2	2	2	2	2	2-22281-3	SPRING, COMPRESSION	22
	-	1	1	1	1	1	1752373-4	DRAG	20
	-	2	2	2	2	2	1901259-4	GUIDE, LOWER STRIP	18
	-	4	4	4	4	4	1-2079383-1	SCR, BHSC, RoHS (M6 X 12)	17
(1)	-	1	1	1	1	1	240644-1	PLATE, REAR SHEAR	11
	-	2	2	2	2	2	1-240645-1	SPACER, SHEAR PLATE	10
(1)	-	1	1	1	1	1	2-240642-2	PLATE, FRONT SHEAR	9
(1)	1	1	1	1	1	1	2-1803000-9	ANVIL, COMBINATION, END FEED	8
(1)	-	1	1	1	1	1	8-240651-7	BLADE, SLUG	7
	-	-	-	-	-	-	-	-	6
	-	1	1	1	1	1	4-240641-1	SPACER	5
	-	1	1	1	1	1	1-238009-2	BLOCK, FL CRIMPER SPACER	4
(1)	1	1	1	1	1	1	2119582-1	CRIMPER, INSULATION F PREMIUM	3
	-	-	-	-	-	-	-	-	2
(1)	1	1	1	1	1	1	3-456404-5	CRIMPER, WIRE PREMIUM	1

-77	-7	-6	-5	-2	-1	PART NO	DESCRIPTION	ITEM NO
-	-	1	-	-	-	2119957-2	APPLICATOR SHIM PACK	260
-	1	-	1	1	1	8-21084-0	O-RING, .676 ID, .070 DIA. MAT.	252
-	-	-	-	1	-	2119640-1	PUSH ROD, AIR FEED	250
-	-	-	-	1	-	2079988-1	BUSHING, LCH5-12, MISUMI	249
-	-	-	-	1	-	2119641-1	FEED CAM, AIR FEED	248
-	1	-	1	1	1	2119798-1	DETENT PIN	247
-	1	-	1	1	1	1-22279-3	SPRING, COMPRESSION	246
-	-	1	-	-	-	2119759-1	RAM, AMP STYLE, END FEED, NON-ADJUST	245

ATLANTIC VERSION
Shown on sheets 1 of 4 & 2 of 4
(Pacific version shown on sheets 3 of 4 & 4 of 4)

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DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL - - | FINISH - -

DWN HOFFNER 10MAY2013
CHK T.ELBIN 13MAY2013
APVD T.ELBIN 13MAY2013
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity
Harrisburg, PA 17105-3608

NAME: Ocean End Feed Applicator -

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-2150342 | RESTRICTED TO -

Customer Accessible Production Drawing | SCALE 1:1 | SHEET 1 OF 4 | REV A

SHEETS 3 & 4 ARE NOT REQUIRED FOR ATLANTIC VERSION

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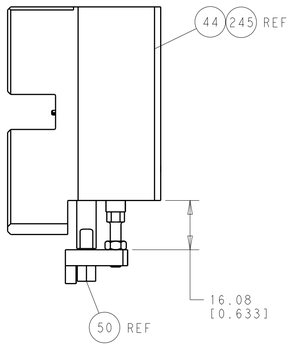
LOC	DIST
A	66

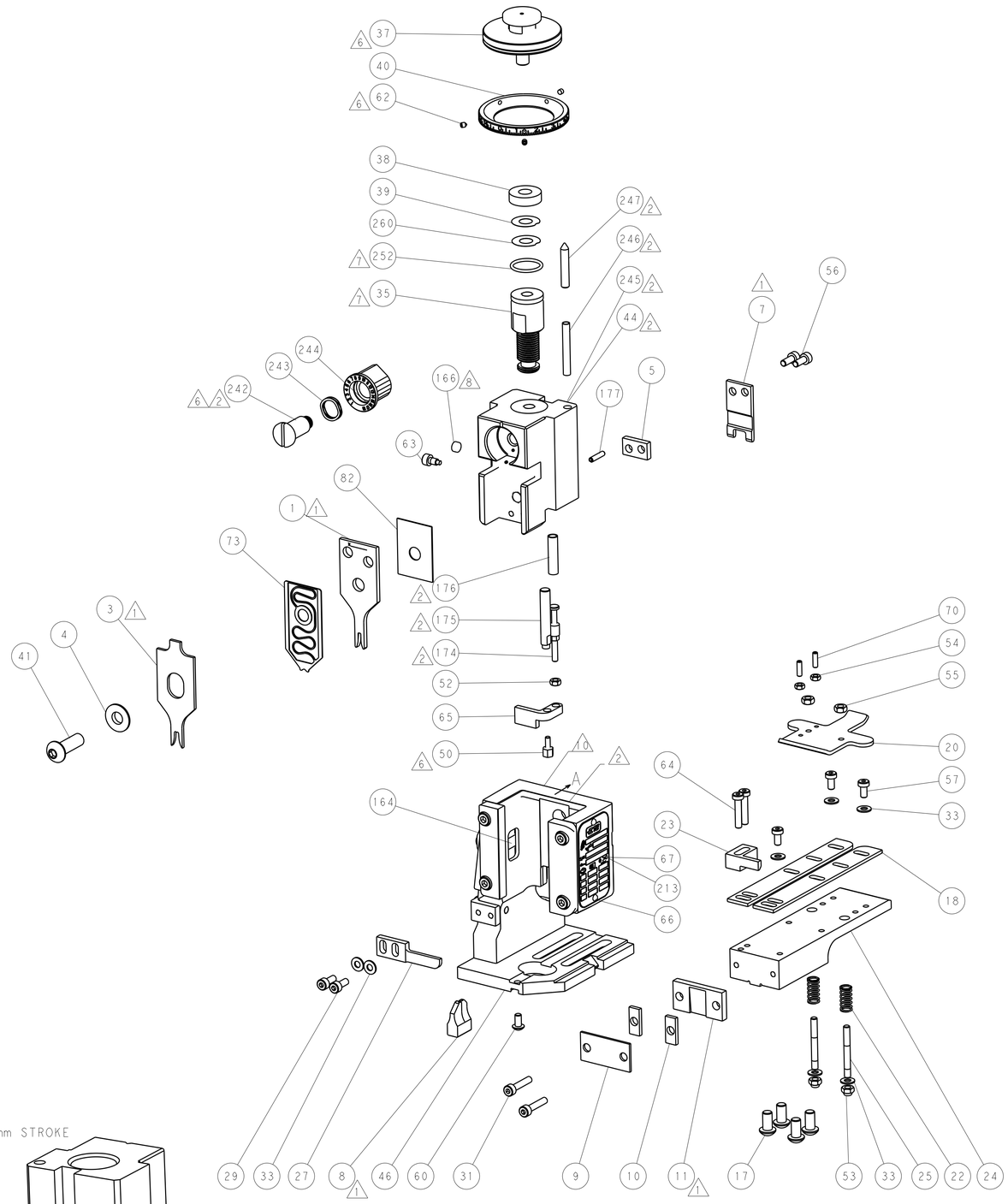
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

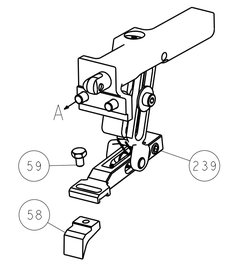
DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009



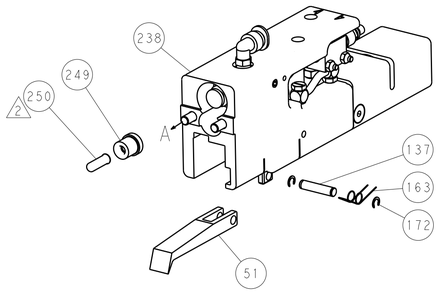
HOLDDOWN SET-UP



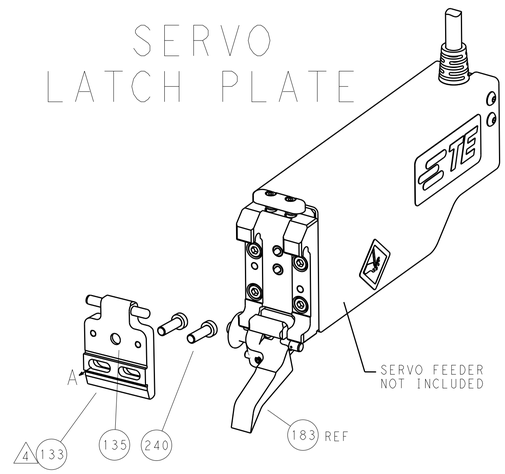
FEED TYPE MECHANICAL



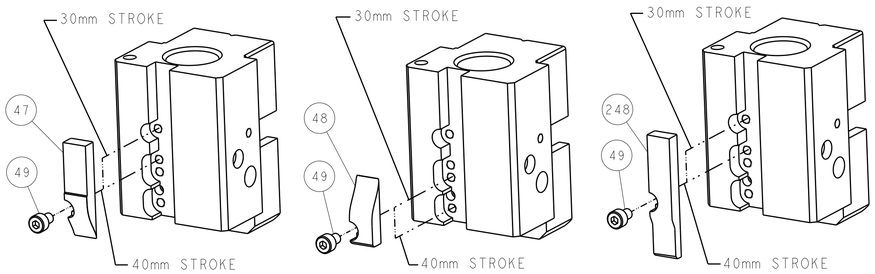
PNEUMATIC



SERVO LATCH PLATE



CAM POSITIONS



ATLANTIC VERSION
Shown on sheets 1 of 4 & 2 of 4
(Pacific version shown on sheets 3 of 4 & 4 of 4)

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DWN	HOFFNER	10MAY2013
CHK	T. ELBIN	13MAY2013
APVD	T. ELBIN	13MAY2013

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±

MATERIAL - -
FINISH - -

PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity
Harrisburg, PA 17105-3608

NAME: Ocean End Feed Applicator -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2150342	-

Customer Accessible Production Drawing | SCALE 1:1 | SHEET 2 OF 4 | REV A

AMP 4805 REV 31MAR2000

SHEETS 3 & 4 ARE NOT REQUIRED FOR ATLANTIC VERSION

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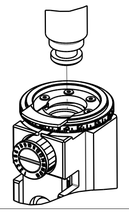
SET UP GAUGE 2119599-2	LOC	DIST
	A	66

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009

PACIFIC VERSION TERMINATOR INTERFACE ADAPTER	PART NUMBER	REVISION	DESCRIPTION	FEED TYPE
	2-2150342-1	A	FINE CRIMP HEIGHT ADJUST	MECHANICAL
	2-2150342-2	A	FINE CRIMP HEIGHT ADJUST	PNEUMATIC
	2-2150342-5	A	FINE CRIMP HEIGHT ADJUST	SERVO LATCH PLATE 4
	2-2150342-7	A	FINE CRIMP HEIGHT ADJUST	NONE
	7-2150342-7	A	CRIMP TOOLING KIT	-

APPLICATOR STYLE CONVERSION CHART

CONVERT TO	PART NUMBERS REQUIRED					
PNEUMATIC FEED	2119950-1	2119792-1	-	2119641-2	-	2063440-1
SERVO LATCH PLATE	2119951-1	1901697-1	8-2150342-5	-	-	2168400-7 (QUANTITY 2)
SMART APPLICATOR	2161326-1	-	8-2150342-4	-	-	-
MECHANICAL FEED	2119949-1	2063961-1	5-18022-5	2119653-2	-	-
SERVO LATCH PLATE	2119951-1	1901697-1	8-2150342-5	-	-	2168400-7 (QUANTITY 2)
SMART APPLICATOR	2161326-1	-	8-2150342-4	-	-	-
MECHANICAL FEED	2119949-1	2063961-1	5-18022-5	2119653-2	-	-
PNEUMATIC FEED	2119950-1	2119792-1	-	2119641-2	-	2063440-1
-	-	-	-	-	-	-
-	-	-	-	-	-	-

APPLICATOR DATA

CRIMP	SIZE	TYPE
WIRE	1.78 mm [.070]	F
INSUL	3.30 mm [.130]	F

APPL INSTRUCTIONS 408-10390

TERMINAL DATA: TE TERMINAL — TE CRIMP SPECIFICATION

TERMINAL NAME: 110 SERIES FASTON RECEPTACLE

WIRE STRIP LENGTH	INSULATION DIAMETER RANGE
3.58-4.34 mm [.141-.171 IN]	∅2.00-3.00 mm [.079-.118 IN]

TERMINAL APPLICATION SPECIFICATION			
	114-20109	-	-
	-	-	-

TERMINALS APPLIED

TE TERMINAL	TE TERMINAL	TE TERMINAL	TE TERMINAL
160780-1	160780-4	160780-6	
160780-2	160780-5		

WIRE SIZE	CRIMP HEIGHT mm [INCH]	CRIMP HEIGHT REFERENCE SETTING 9
1.50mm2	1.30+/-0.000 [.051+/-.000]	5.9
1.00mm2	1.17+/-0.000 [.046+/-.000]	7.4
0.75mm2	1.12+/-0.000 [.044+/-.000]	7.9
0.50mm2	1.07+/-0.000 [.042+/-.000]	8.3

1 RECOMMENDED SPARE PARTS

2 GREASE BEARING SURFACES LIGHTLY

3. LUBRICATE DAILY PER THE APPLICATOR INSTRUCTION SHEET SUPPLIED WITH THE APPLICATOR.

4 APPLICATOR SPECIFIC DATA TO BE ENTERED INTO BLANK MEMORY CHIP AT ASSEMBLY. SEE BELOW FOR PART NUMBER:
MECHANICAL FEED WITH "SMART APPLICATOR" CONVERSION: 8-2150342-4
PNEUMATIC FEED WITH "SMART APPLICATOR" CONVERSION: 8-2150342-4
SERVO FEED WITH "FINE CRIMP HEIGHT ADJUST": 8-2150342-5

5. ADJUSTMENT OF THE STRIPPER MAY BE REQUIRED WHEN MOVING THE APPLICATOR BETWEEN BENCH AND LEADMAKER APPLICATIONS.

6 APPLY PART NUMBER 1-23419-5 LOCTITE TO THREADS OF ITEMS 50, 62 & 242.

7 GREASE THREADS, GROOVE AND O-RING ON ITEMS 139 & 153.

8 MAGNET, ITEM 166 MUST BE ORIENTED CORRECTLY IN ORDER TO PROPERLY ACTUATE THE COUNTER.

9 CRIMP HEIGHT REFERENCE SETTING WAS THE SETTING USED WHEN THE APPLICATOR WAS QUALIFIED AT THE FACTORY. ADJUSTMENT MAY BE NECESSARY WHEN RUNNING APPLICATOR IN THE FIELD.

10 SPARE FEED CAM STORAGE LOCATION REFER TO INSTRUCTION SHEET FOR ADDITIONAL INFORMATION.

11 THE RECOMMENDED SET-UP FOR END FEED APPLICATORS IS POST-FEED WITH ITEM 2119653-1. THE APPLICATOR CAN BE CONFIGURED FOR PRE-FEED WITH ITEM 2119652-1 BUT MAY ENCOUNTER PROBLEMS WITH SOME APPLICATIONS. FEED ISSUES OR TERMINAL JAMMING MAY OCCUR IN THE PRE-FEED CONFIGURATION.

*WARNING
ON INSTALLATION, SET WIRE DISC, ITEM 40 TO LARGEST WIRE SIZE SETTING. USE OF SETTINGS BELOW MINIMUM REQUIRED CRIMP HEIGHT SETTING WILL CAUSE DAMAGE TO CRIMP TOOLING.

77	27	25	22	21	PART NO	DESCRIPTION	ITEM NO
-	1	1	1	1	2119782-1	FINE ADJUST HEAD ASM, PACIFIC STYLE	251
-	-	-	1	-	2119640-1	PUSH ROD, AIR FEED	250
-	-	-	1	-	2079988-1	BUSHING, LCH5-12, MISUMI	249
-	1	1	1	1	1-22279-3	SPRING, COMPRESSION	246
-	1	1	1	1	2119082-9	CAM, SNAIL, INSULATION ADJUSTMENT	244
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Shown on sheets 3 of 4 & 4 of 4
(Atlantic version shown on sheets 1 of 4 & 2 of 4)

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-	1	1	1	1	8-22280-7	SPRING, COMPRESSION	176
-	1	1	1	1	1752353-2	GUIDE PIN,HOLDDOWN	175
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-	1	1	1	1	1-238009-2	BLOCK, FL CRIMPER SPACER	4
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1 1	1	1	1	1	3-456404-5	CRIMPER, WIRE PREMIUM	1

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DWN	HOFFNER	10MAY2013
CHK	T.ELBIN	13MAY2013
APVD	T.ELBIN	13MAY2013

PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.5
2 PLC ±0.13
3 PLC ±0.013
4 PLC ±0.0001
ANGLES ±-

MATERIAL - -
FINISH - -

TE Connectivity
Harrisburg, PA 17105-3608

NAME: Ocean End Feed Applicator -

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2150342	-

Customer Accessible Production Drawing — SCALE 1:1 — SHEET 3 OF 4 — REV A

SHEETS 1 & 2 ARE NOT REQUIRED FOR PACIFIC VERSION

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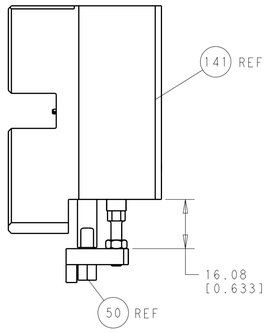
LOC	DIST
A	66

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

DIMENSIONING AND TOLERANCING PER ASME Y14.5M-2009



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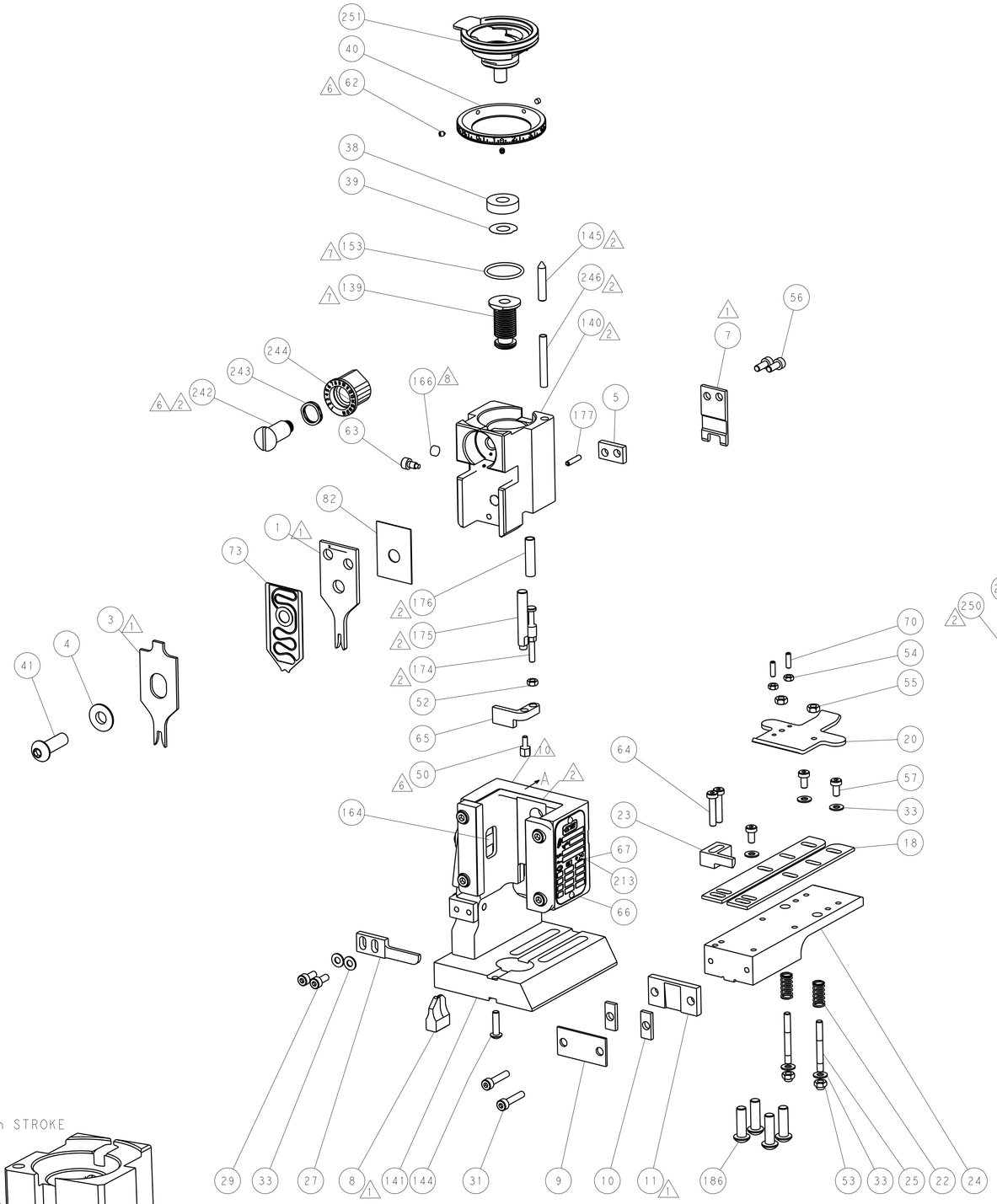

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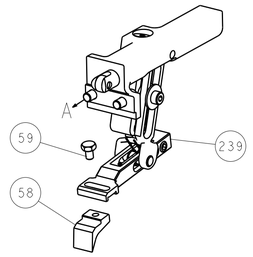
MECHANICAL



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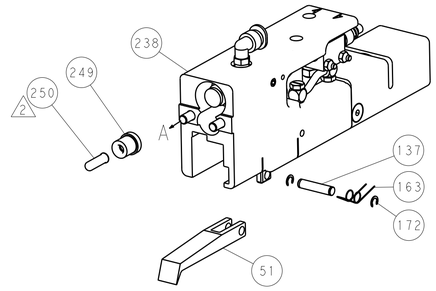

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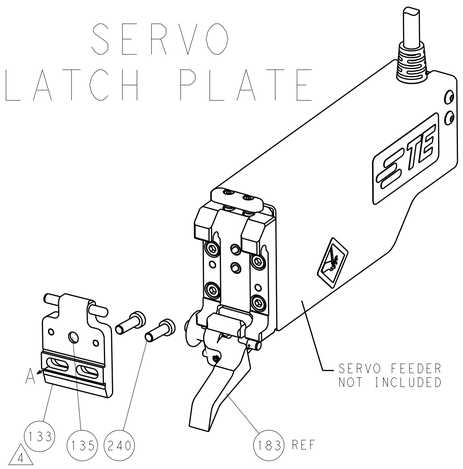
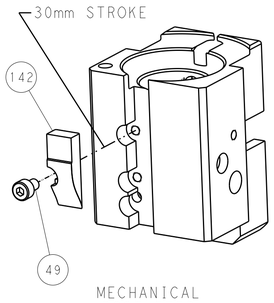
LATCH PLATE



CAM POSITIONS



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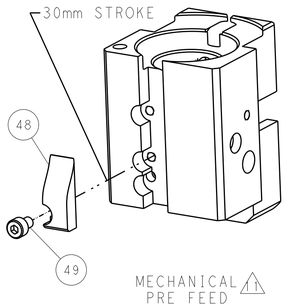
POST FEED



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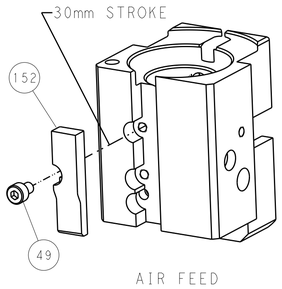

AIR FEED

PACIFIC VERSION
Shown on sheets 3 of 4 & 4 of 4
(Atlantic version shown on sheets 1 of 4 & 2 of 4)

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Customer Accessible Production Drawing | SCALE 1:1 | SHEET 4 OF 4 | REV A

AMP 4805 REV 31MAR2000

SHEETS 1 & 2 ARE NOT REQUIRED FOR PACIFIC VERSION