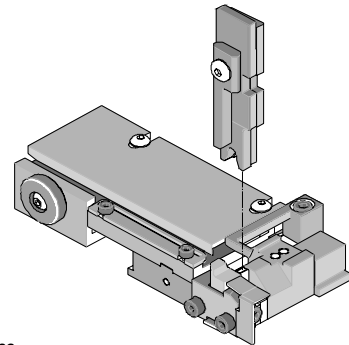




## T2 Terminator Tooling Specification Sheet Part No. 63855-6100



### FEATURES

- This terminator can be installed in the TM42 and the TM40 press or Base Unit adapter for 3BF press
- It is ideally suited for mid-volume bench operations
- Quick punch removal with the push of a button for fast and easy tooling change
- Track adjustment capabilities in the T2 Terminators for improved control of the bell mouth size and cutoff tab length
- T2 Terminator has standardized tooling with the Molex FineAdjust Applicator which will reduce your inventory requirements

### SCOPE

MX150L™ Male Terminal for 18-24 AWG Wire, Metal Strip Carrier.

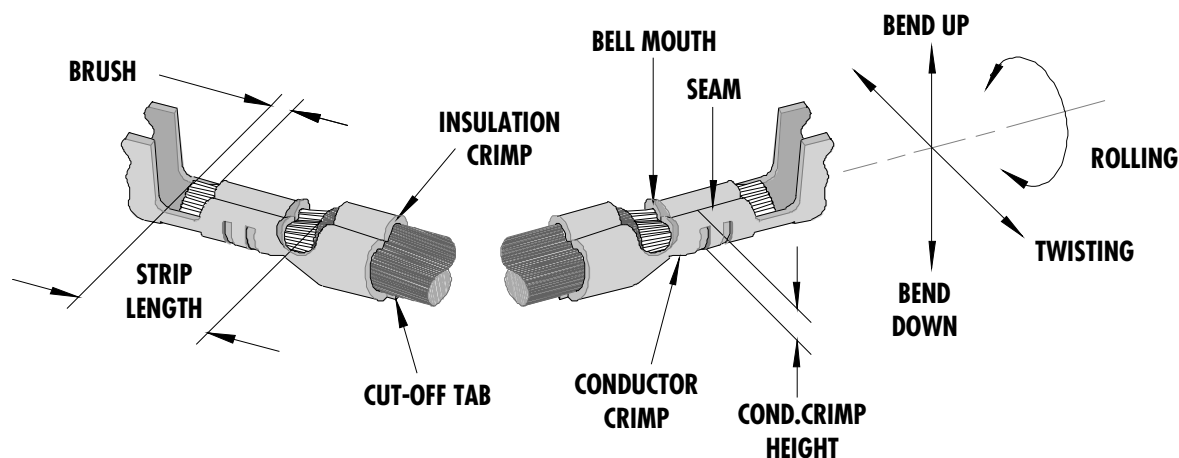
| Terminal Order No. |                  | Wire Size |                 | Insulation Diameter |           | Strip Length |           |
|--------------------|------------------|-----------|-----------------|---------------------|-----------|--------------|-----------|
|                    |                  | AWG       | mm <sup>2</sup> | mm                  | In.       | mm           | In.       |
| 19417-0024         | Male (Tin)       | 18-22     | 0.83-0.36       | 2.36-2.74           | .093-.108 | 4.20-5.00    | .165-.197 |
| 19417-0026         | Male (Gold)      | 18-22     | 0.83-0.36       | 2.36-2.74           | .093-.108 | 4.20-5.00    | .165-.197 |
| 19417-0028         | Male (Tin) Long  | 18-22     | 0.83-0.36       | 2.36-2.74           | .093-.108 | 4.20-5.00    | .165-.197 |
| 19417-0030         | Male (Gold) Long | 18-22     | 0.83-0.36       | 2.36-2.74           | .093-.108 | 4.20-5.00    | .165-.197 |
| 19417-0024         | Male (Tin)       | 24        | 0.20            | 1.00 Nom.           | .039 Nom. | 4.20-5.00    | .165-.197 |
| 19417-0026         | Male (Gold)      | 24        | 0.20            | 1.00 Nom.           | .039 Nom. | 4.20-5.00    | .165-.197 |
| 19417-0028         | Male (Tin) Long  | 24        | 0.20            | 1.00 Nom.           | .039 Nom. | 4.20-5.00    | .165-.197 |
| 19417-0030         | Male (Gold) Long | 24        | 0.20            | 1.00 Nom.           | .039 Nom. | 4.20-5.00    | .165-.197 |

**Note: Terminals will accommodate the following wire specification:**

1. (18-22 AWG) UL1015 wires.
2. (24 AWG) UL20251 wire.

For 24 AWG wire, see Tool Qualification Notes, Item 2 on page 2.

### DEFINITION OF TERMS



The above terminal drawing is a generic terminal representation. It is not an image of a terminal listed in the scope.

**CRIMP SPECIFICATION**

| Terminal Series No. | Bell mouth |           | Cut-off Tab Max. |      | Conductor Brush |           |
|---------------------|------------|-----------|------------------|------|-----------------|-----------|
|                     | mm         | In.       | mm               | In.  | mm              | In.       |
| 19417               | 0.25-1.25  | .010-.049 | 0.50             | .020 | 0.15-0.65       | .006-.026 |

| Terminal Series No. | Bend up | Bend down | Twist | Roll | Punch Width mm (Ref) |      |            |      | Seam<br>Seam shall not be open<br>and no wire allowed out<br>of the crimping area |
|---------------------|---------|-----------|-------|------|----------------------|------|------------|------|-----------------------------------------------------------------------------------|
|                     | Degree  | Degree    | mm    | In   | Conductor            |      | Insulation |      |                                                                                   |
|                     |         |           |       |      | mm                   | In   | mm         | In   |                                                                                   |
| 19417               | 5       | 5         | 4     | 8    | 2.10                 | .082 | 3.40       | .133 |                                                                                   |

After crimping, the conductor profile should measure the following.

| Terminal Order No. | Wire Size |                 | Conductor Crimp Height |           | Insulation Crimp Height |           | Pull Force Min. |       |
|--------------------|-----------|-----------------|------------------------|-----------|-------------------------|-----------|-----------------|-------|
|                    | AWG       | mm <sup>2</sup> | mm                     | In.       | Mm (Ref)                | In. (Ref) | N               | Lb.   |
| 19417-0024         | 18        | 0.83            | 1.35-1.45              | .053-.057 | 3.00 max.               | .118 max. | 89.0            | 20.00 |
| 19417-0024         | 20        | 0.58            | 1.25-1.35              | .049-.053 | 3.00 max.               | .118 max. | 57.9            | 13.00 |
| 19417-0024         | 22        | 0.36            | 1.15-1.25              | .045-.049 | 3.00 max.               | .118 max. | 35.6            | 8.00  |
| 19417-0024         | 24        | 0.20            | 1.05-1.15              | .041-.045 | 3.00 max.               | .118 max. | 22.2            | 5.00  |
|                    |           |                 |                        |           |                         |           |                 |       |
| 19417-0026         | 18        | 0.83            | 1.35-1.45              | .053-.057 | 3.00 max.               | .118 max. | 89.0            | 20.00 |
| 19417-0026         | 20        | 0.58            | 1.25-1.35              | .049-.053 | 3.00 max.               | .118 max. | 57.9            | 13.00 |
| 19417-0026         | 22        | 0.36            | 1.15-1.25              | .045-.049 | 3.00 max.               | .118 max. | 35.6            | 8.00  |
| 19417-0026         | 24        | 0.20            | 1.05-1.15              | .041-.045 | 3.00 max.               | .118 max. | 22.2            | 5.00  |
|                    |           |                 |                        |           |                         |           |                 |       |
| 19417-0028         | 18        | 0.83            | 1.35-1.45              | .053-.057 | 3.00 max.               | .118 max. | 89.0            | 20.00 |
| 19417-0028         | 20        | 0.58            | 1.25-1.35              | .049-.053 | 3.00 max.               | .118 max. | 57.9            | 13.00 |
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| 19417-0028         | 24        | 0.20            | 1.05-1.15              | .041-.045 | 3.00 max.               | .118 max. | 22.2            | 5.00  |
|                    |           |                 |                        |           |                         |           |                 |       |
| 19417-0030         | 18        | 0.83            | 1.35-1.45              | .053-.057 | 3.00 max.               | .118 max. | 89.0            | 20.00 |
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| 19417-0030         | 22        | 0.36            | 1.15-1.25              | .045-.049 | 3.00 max.               | .118 max. | 35.6            | 8.00  |
| 19417-0030         | 24        | 0.20            | 1.05-1.15              | .041-.045 | 3.00 max.               | .118 max. | 22.2            | 5.00  |

Pull Force should be measured with no influence from the insulation crimp.

The above specifications are guidelines to an optimum crimp.

 **Tool Qualification Notes:**

1. This Terminator was qualified to the above specifications with UL1015 wires for 18-22 AWG and UL20251 wire for 24 AWG.
2. For the 24 AWG wire, the insulation crimp has clearance around the wire and does not provide strain relief, even at the nominal reference crimp height of 2.11mm (.083").

**PARTS LIST**

| <b>T2 Terminator 63855-6100</b>                                              |                 |                        |                                |                 |
|------------------------------------------------------------------------------|-----------------|------------------------|--------------------------------|-----------------|
| <b>Item</b>                                                                  | <b>Order No</b> | <b>Engineering No.</b> | <b>Description</b>             | <b>Quantity</b> |
| <b>Perishable Tooling</b>                                                    |                 |                        |                                |                 |
|                                                                              | 63855-6170      | 63855-6170             | Tool Kit (All "Y" Items)       | REF             |
| 1                                                                            | 63444-2137      | 63444-2137             | Conductor Punch                | 1 Y             |
| 2                                                                            | 63445-2162      | 63445-2162             | Conductor Anvil                | 1 Y             |
| 3                                                                            | 63454-0022      | 63454-0022             | Insulation Punch               | 1 Y             |
| 4                                                                            | 63445-3440      | 63445-3440             | Insulation Anvil               | 1 Y             |
| 5                                                                            | 63443-0035      | 63443-0035             | Cut-Off Plunger                | 1 Y             |
| 6                                                                            | 63443-0036      | 63443-0036             | Front Plunger Retainer         | 1 Y             |
| <b>Other Components</b>                                                      |                 |                        |                                |                 |
| 7                                                                            | 63800-8504      | 63800-8504             | Wire Stop                      | 1               |
| 8                                                                            | 11-18-4083      | 60707-8                | Front Cover                    | 1               |
| 9                                                                            | 63443-0009      | 63443-0009             | Scrape Chute                   | 1               |
| 10                                                                           | 63443-0021      | 63443-0021             | Lower Tooling Key              | 1               |
| 11                                                                           | 63443-2508      | 63443-2508             | Anvil Mount                    | 1               |
| 12                                                                           | 63443-3160      | 63443-3160             | Front Plunger Striker          | 1               |
| 13                                                                           | 63443-6013      | 63443-6013             | Rear Cover                     | 1               |
| 14                                                                           | 63700-0539      | 63700-0539             | Cut-off Plunger Spring         | 1               |
| <b>Frame</b>                                                                 |                 |                        |                                |                 |
| 15                                                                           | 63800-8800      | 63800-8800             | T2 Terminator-Frame Wide Track | 1               |
| <b>Hardware</b>                                                              |                 |                        |                                |                 |
| 16                                                                           | N/A             | N/A                    | M3 by 6Lg. SHCS                | 2**             |
| 17                                                                           | N/A             | N/A                    | M4 by 6Lg. SHCS                | 1**             |
| 18                                                                           | N/A             | N/A                    | M4 by 12Lg. BHCS               | 2**             |
| 19                                                                           | N/A             | N/A                    | M4 by 50Lg. SHCS               | 2**             |
| 20                                                                           | N/A             | N/A                    | M4 by 12Lg SHCS                | 1**             |
| 21                                                                           | N/A             | N/A                    | 3MM by 6Lg. Roll Pin           | 1**             |
| 22                                                                           | N/A             | N/A                    | #10-32 by 1/4"Lg. BHCS         | 1**             |
| ** Available from an industrial supply company such as MSC (1-800-645-7270). |                 |                        |                                |                 |

# Assembly Drawing

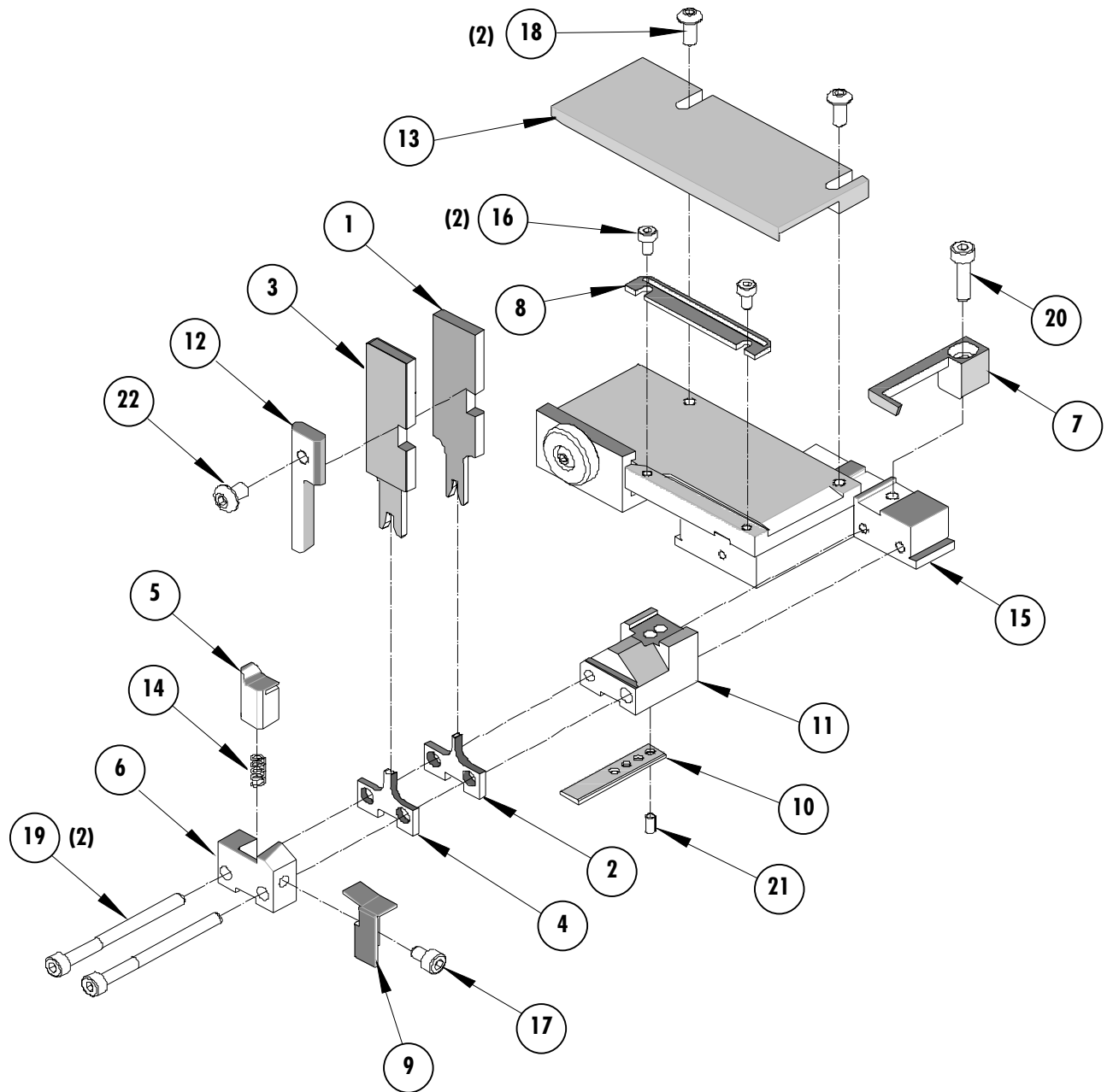


Figure 1

## NOTES

Depending on the press vintage a feed finger assembly is supplied with the T2 Terminator.

1. To remove the existing feed finger assembly loosens the M4 x 10 mm set screw in the feed lever.
2. Select T2 Feed finger assembly from Terminator box.
3. Insert a screwdriver into the slot behind the feed lever and force the feed arm spring to the right.
4. Slide the T2 feed finger shaft for TM42 (11-40-5307) or (11-40-0123) for TM40 /Base Unit into the feed lever and to the left of the feed arm spring.
5. Release the feed arm spring.
6. Position feed finger for selected product. (Refer to Figure 5.1 in the T2 Manual).

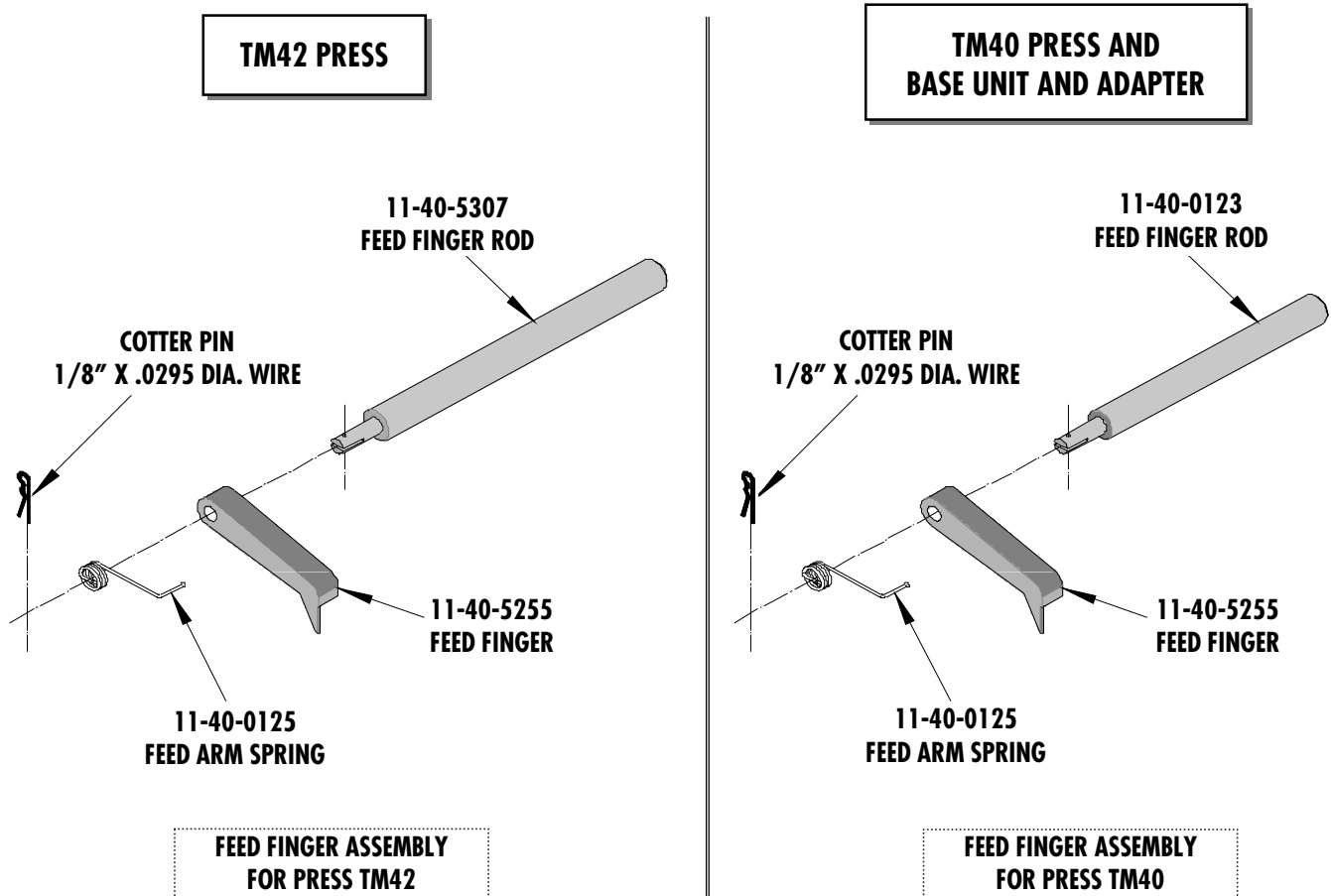


Figure 2

## NOTES

1. Molex recommends an extra perishable tooling kit be maintained at your facility.
2. Verify tooling alignment by manually cycling the press before crimping under power. Check that all screws are tight.
3. Slugs, Terminals, Dirt and Oil should be kept clear of work area.
4. This Terminator should be only used in a Molex TM42, TM40, or 3BF Press with a Base Unit adaptor.
5. Wear safety glasses at all times.
6. For recommended maintenance refer to the TM40, TM42 Manual.

**CAUTION:** To prevent injury never operate this Terminator without the guards supplied with the press or in place. Reference the TM42 press manufacturer's instruction manual.

**CAUTION:** Molex crimp specifications are valid only when used with Molex terminals, applicators and tooling.

### Americas Headquarters

Lisle, Illinois 60532 U.S.A.  
1-800-78MOLEX  
amerinfo@molex.com

### Far East North Headquarters

Yamato, Kanagawa, Japan  
81-462-65-2324  
feninfo@molex.com

### Far East South Headquarters

Jurong, Singapore  
65-6-268-6868  
fesinfo@molex.com

### European Headquarters

Munich, Germany  
49-89-413092-0  
eurinfo@molex.com

### Corporate Headquarters

2222 Wellington Ct.  
Lisle, IL 60532 U.S.A.  
630-969-4550  
Fax: 630-969-1352

Visit our Web site at <http://www.molex.com>

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

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