





This instruction manual is intended to be a guide when operating the Triad Extreme Seam welder. To ensure optimal performance from your welder, please follow the recommendations and specifications precisely.

For more technical information regarding this machine call our Resolution Center 1-855-888-WELD or email service@weldmaster.com.

You can also subscribe to Miller Weldmaster Insiders to stay updated on tech tips, machine maintenance updates, and more at www.weldmaster.com/insiders.



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1.0 Introduction

The Triad Extreme Seam hot wedge welding machine is designed for in house fabrication of a wide range of flexible membranes. This includes, but is not limited to, PVC, PP, PE, LDPE, Urethane, etc.

Thickness of material that can be welded will vary also with product. Normal range is 5-100 mil thickness and can be supported or non-supported material.

The Triad comes complete with three different guides. This will allow you to perform the overlap weld, hem weld, prayer weld and many more welding options.

The Triad uses a hot wedge as its heat source. This method will give you smokeless and quiet operation. The wedge also allows for welding thinner products without distortion.

The Triad can be used as a stationary welder or in an automatic mode. When using the Triad in an automatic mode, a track system is suggested. Please refer to Track System Specifications.

We suggest that you make samples welds of your product to achieve the correct settings for heat, speed and wedge alignment before you start welding



1.1 Intended Use

The Triad Extreme Seam Welder is a hot wedge welding machine intended to heat-seal weldable thermal plastics such as:

- Vinyl (PVC) laminated and coated fabrics
- Vinyl (PVC) and Polyurethane (PU) films
- Polyurethane (PU) and Polypropylene (PP) coated fabric
- Polyethylene (PE)
- Thermoplastic rubber (TPR) film and fabrics Non-woven Polyester and Polypropylene Various Weldable Webbing

The manufacturer does not approve of:

- Any other uses for these machines.
- The removal of any safety guards while in operation.
- Unauthorized modification of the machines.
- Using replacement parts that are not manufacturer-approved.

1 Only a properly-trained technician may operate and/or perform any routine maintenance or repairs to the machines.

NOTE: The manufacturer will not be held liable for any damage or injuries occurring from any inappropriate use of this machine.



2.0 Material Setup

Material should be laid out as flat as possible, either on the floor or table depending on how you set up your fabrication area. With most material and especially thinner goods, it is prefered to pull out the wrinkles or pull taunt. The use of sheet metal in or next to the machine on the table, allows for the use of magnets to position and hold the material. Taping material taunt is a good practice.

To perform overlap welds, always overlap material more than the final weld width. **Example:** With a 1-1/2" weld width, overlap the end of material or run 2 to 2 1/2". The machine and front guides will push the material to the desired overlap. If the material is not overlapped or positioned properly, the machine will not make the desired overlap weld. See sample below.





3.0 Operating Instructions

The following procedures should be followed only after you have followed the Wedge Adjustment and Guide adjustment procedures.

- 1. Pull up on Red Power Switch #3 to turn machine on. The Green Power Light #4 will go on with a one second delay. The Green light will remain on as an indicator that you have power to the machine. (Push down on Red Power Switch #3 to turn machine off)
- Temperature Controller #7 will come on with a 1-2 second delay after Green Power Light goes on. Units are set in celsius at the factory. Press the Set Button and hold, now press the up or down button until you reach your desired temperature. Heat up time is only one to two minutes. Do not adjust heat over 510 degrees C. For sample welds, set controller to 400 degrees C. This may not be your final setting.
- 3. Set For/Rev Switch #5 to Forward position. This indicates direction of machine and drive/pressure roller movement.
- 4. Set Man/Auto Switch #2 to Auto position. This will engage or start Drive/Pressure rollers when wedge is moved into welding position.
- 5. Swing Drive Wheel Assembly #10 under bottom Pressure Roller. This will make the machine move or automatic. With Drive Wheel Assembly out, the machine can be used in a stationary mode.
- 6. #1 is the Speed Control. It is adjustable from 0-30 feet per minute. Normal setting will be in the 30 to 60 range, for 12-30 mil goods.
- 7. #8 is the Pressure Knob. It can be adjusted for more or less pressure, depending on the thickness of material.
- 8. Insert material into the machine with proper guides installed and close Pressure Wheel Handle #9.
- 9. Swing Wedge Engagement Handle #11 in toward the machine, this will automatically start forward motion of the Triad and engage wedge with material.
- 10. Adjust speed control up or down until you can verify you are getting a proper weld.





4.0 Material Guides

All Guides shown below are included with the purchase of the standard machine. Each guide will give you a specific type of weld and more. You can only use one guide system at a time.

The Top Guide will be used with all three different welding functions, overlap, hem and prayer welds. All Guides are adjustable.

To achieve a precise weld with no loose flap on top or bottom of sheet, guides should be adjusted so that they are even with the width of wedge, or welding area





5.0 Welding

5.1 Overlap Weld

Attach Overlap Guide #1 to base plate with the two screws provided. Loosen screw (A) to adjust bottom side of overlap for proper alignment and re-screw.



5.2 Hem Weld

Slide Hem Guide #2 onto the three stainless rods up to the outer Horn Guide #3 (Diagram #1), leaving enough area between the two so material will slide easily. Tighten thumbscrew (B) (Diagram #1), this will allow the outer Horn guide and Hem guide to move as one. This dictates the size of the hem to be welded. Push on Hem Slide #4 (Diagram #2) to achieve desired hem width or size. When this is done, tighten thumbscrews (C) (Diagram #1) to lock in place.





5.3 Prayer or Fin Weld

Position the Prayer Guide #5 under the Welding Horn, placing the key way into the slot. Fasten with screw provided once proper alignment is completed.



5.4 Front Guides

Front Guides #6 are adjustable to pre-align material before you reach the welding process. This will help the operator in feeding material into machine properly.





6.0 General Maintenance

General maintenance should be performed annually to your Triad Extreme Welder.

Chain tension should be checked to alleviate excessive wear to the chains and sprockets. Using a foaming chain lubricant will cling to the chain and extend chain life.

The pinch rollers should be replaced if there are cuts, flat spots, burn marks etc.

Wedge adjustment should be checked daily before performing any welding. The operator should be familiar with all wedge adjustments to get the best weld quality. Check for any loose hardware. Loose hardware can alter the wedge adjustment with every engagement.



7.0 Wedge Cleaning and Honing

For accurate welds and longer wedge life, the wedge should be cleaned and honed on a regular basis.

CLEANING: Wedge cleaning should be done daily. There are two ways to clean the wedge.

- 1. With the Pressure Rollers in the up position and the wedge in the weld position, use the Brass Brush provided and clean wedge top and bottom. This can be done after every weld or as needed.
- 2. The second method of cleaning the wedge is to increase the temperature to 510 degrees C for 5-10 minutes. This will burn the residue on the wedge and it will flake off. Use the Brass Brush to remove.

HONING: Wedge Honing should be done if there are signs of wear on the wedge. This is evident with uneven welds, rounding edges or corners on the wedge.

- 1. Install both smooth steel rollers on machine, (do not hone the wedge with the Silicone rollers on machine).
- 2. Turn the forward/reverse switch to reverse position.
- 3. Swing wedge into weld position and close rollers.
- 4. Take the fine Emery Cloth provided, and run it back through the rollers on top of the wedge. Repeat this step on the bottom of the wedge.
- 5. Repeat step 4 top and bottom until there is even wear the full length of wedge.
- 6. If Honing does not true up the wedge, refer to Wedge Adjustment section. A combination of honing and adjustment may be necessary.





8.0 Wedge Adjustment

Proper wedge alignment is essential to achieve a proper weld. Units are preset at the factory. Sample welds should be made prior to actual use of the machine.

If sample welds are good only on one side or the other, or only partially welded, this means the wedge is not aligned or square to the rollers, and alignment adjustment is needed.

Unplug unit from power source and make sure the wedge is cool before you work on the machine.



1. Pull Pressure Roller Handle #1 down. This will close Pressure Rollers.



8.0 Wedge Adjustment (Continued)

2. Swing Wedge Handle #2 in this will engage wedge with rollers. The wedge #4 should rest or fit snug into the rollers #3 on both sides and should be centered.







8.0 Wedge Adjustment (Continued)

3. To center wedge between rollers, turn screw #5, this will fine tune wedge up and down. Only a 1/8 or 1/4 turn is necessary. Do not overturn. Move Pressure Roller Handle up and down slowly to check centering adjustment. Swing wedge handle in and out to ensure proper positioning.



4. Adjustment Screw #6 will move wedge on a center axis left and right. Loosen Locking Screw #8 to make adjustment. Loosen Lock Nut #7, turn Adjustment Screw clockwise to bring right side of wedge in and counterclockwise to bring left side in. When adjusted properly, tighten Locking Screw and Lock Nut.





8.0 Wedge Adjustment (Continued)

5. Wedge Stop Screw #9 will stop travel of wedge when positioning wedge in weld position. Loosen Locknut #10, turn Adjustment Screw in or out to proper position. The edge of the wedge should fit snug and square into the rollers on each end.



Make a test weld before proceeding with job. Fine tuning your adjustments can be made while wedge is hot. Do not run Hot Wedge into Silicone Rollers without material in machine for extended periods, as it will distort the silicon.

Note: For thicker products (30mil and up) backing the wedge out may be necessary to allow room for material.



9.0 Wedge Replacement

The wedge should be replaced when honing and adjustment is no longer effective. If heater failure occurs after a period of time, the heaters may not be easily removed. The wedge and heater will most likely have to be replaced together.

- 1. Unplug machine and make sure wedge is cool.
- 2. Remove Hanger Bracket Screw #11 and remove Wedge Housing Assembly #14.
- 3. Unscrew and detach Heater Connector #12.
- 4. Remove both Wedge Screws #13, and remove wedge.
- 5. Install new wedge with Wedge Screws. Attach Heater Connector and re-attach Wedge.
- 6. Center Housing with Screw #11 and tighten.
- 7. Wedge alignment may be necessary, please refer to Wedge Adjustment Section.

Note: Wedge Housing assembly will move back and forth in slot for #11 screw. Moving the Housing will increase or decrease exposure of material to wedge for different preheat time or exposure. Thinner products need little preheat, thicker material need more.





10.0 Wedge Installation





Install wedge on wedge mount arm along with lead bracket using two screws (note insert photo). Position heater wires properly on lead bracket and gently close tabs to secure.



With wedge in engaged position, use zip ties to collect heater wires together. Note the wrap of heater wires around upper pinch roller arm and around back of Triad.



10.0 Wedge Installation (Continued)



Using clip & screw, attach around heater wires and position to body of Triad. Do not fully tighten.



Electrically connect hot wedge to receptacle on body of Triad. When connected, make comfortable bend of heater wire and position properly in clip. Swing wedge in and out of welding position to make sure wrap around back of Triad is comfortable. When completed, tighten clip to secure.



11.0 Troubleshooting

| Condition | Possible Cause | Corrective Action |
|--|---|--|
| Wedge doesn't heat | Fuse blown | Diagnose wedge |
| | Heater failed (220 Volt) | Replace fuse |
| | Control or relay failure | Replace wedge |
| | Loose wire | Diagnose and replace control |
| | | Check wiring contacts |
| No drive, motor hums | Chain break/binding | Find and repair or adjust failed chain |
| | Pinch roller bearings | Replace bearings/shaft |
| | U joint shaft | Rebuild U joint shaft |
| | Motor gears stuck (rare) | Repair or replace motor |
| No drive, motor quiet | Motor fuse failed caused by fabric or me- | Correct cause of binding |
| | | Replace fuse |
| | controller failure (usually associated with control fuse blown) | Diagnose and replace controller |
| Wedge temp unsta- | Controller programming | Reconfigure control. |
| DIE | Heater failure (120 Volt) | Diagnose and replace wedge |
| | Thermocouple failure | |
| Fuse blows (heater) | Heater short or ground fault_ | Diagnose and replace wedge |
| | Incorrect fuse value | Replace with correct fuse |
| Fuse blows (control) | Controller failure | Diagnose and replace failed control |
| | Short circuit or other wiring problem | Diagnose and correct wiring |
| Temp control display | No thermocouple signal | Plug in and test wedge |
| (Spec) | Thermocouple failure | Replace wedge |
| | | Check internal T/C wire |
| Temp control display | Triad control (935) all errors are T/C based, | Plug in and test wedge |
| shows other ER code | Spec control (SD) see control manual | Check control configuration |
| Only one pinch roller is | Chain failure (Triad) | Repair or replace belt or chain |
| unning | Belt failure (Spec) | Replace shaft assembly |
| | Gear or sprocket spun | |
| Pinch roller handle doesn't lift completely | Cam roller at apex of travel in cam plate | Rotate wedge height adjustment bolt about 180° and readjust wedge center |



12.0 Schematics

12.1 Lower Chassis/Bottom Side Travel System





12.0 Schematics 12.1 Lower Chassis/Bottom Side Travel System

| Drawing 300-M07-3-1 | |
|---------------------|---------------------------------------|
| Part # | Description |
| 392025 | #10 Washer |
| 391050 | 10-32x.625 818ss SHCS |
| 391060 | 10-32x.625 818ss FHCS |
| 391051 | 10-32x.75 818ss SHCS |
| 391072 | 10-32x.25 818ss SS |
| 392007 | Dowel Pin .250 x .625 |
| 310125 | Idler / Travel Wheel & Bearing Assem. |
| 310127 | Needle Brng .562 x .375 x .438 |
| 300310 | Spacer Pinch Roller |
| 300013 | Rear Idler Wheel Axle |
| 392000 | Dowel Pin .375 x 3.00 |
| 310124 | Travel Wheel (std) & Bearing |
| 300007 | Drive Wheel Trunion Arm |
| 310158 | Brng .75 x .25 x .28 |
| 300008 | Front Idler Wheel Axle |
| 300009 | Front Wheel Axle Mount |
| 300011 | Left Rear Wheel Axle Mount |
| 300010 | Right Rear Wheel Axle Mount |



12.2 Lower Chassis/Lower Roller Drive





12.2 Lower Chassis/Lower Roller Drive

| Drawing 300-M07-3-3 | |
|---------------------|-----------------------------------|
| Part | Description |
| # | |
| 391031 | 8-32x.625 818ss SHCS |
| 391033 | 8-32x1.00 818ss SHCS |
| 391050 | 10-32x.625 818ss SHCS |
| 391026 | 8-32x.75 818ss SHCS |
| 392008 | Dowel Pin .250x.375 |
| 300035 | Lower Final Drive Shaft Housing |
| 310128 | Needle Brng .687x.500x.625 |
| 310126 | Pinch Roller 1.50 (std.) |
| 392080 | Keyway .125x1.0 |
| 392025 | #10 Washer |
| 300001 | Chassis Base Plate |
| 300033 | Lower Final Chain Housing |
| 310135 | Chain |
| 310134 | Link |
| 300132 | Lower Final Chain Rub btm/front |
| 300034 | Lower Final Chain Housing Cover |
| 300133 | Lower Final Chain Rub top/front |
| 300131 | Lower Final Chain Rub top/rear |
| 300130 | Lower Final Chain Rub btm/rear |
| 300021 | Sprocket Std1475 pitch x 16 tooth |
| 300032 | Lower Final Drive Shaft |
| 310159 | Brng .875x.375x.28 |
| 391090 | 5/16-18x1.00 818ss SHCS |
| 392007 | Dowel Pin .250x.625 |
| 391049 | 10-32x.312 818ss SHCS |
| 391028 | 8-32x.25 818ss SS |





12.3 Wedge Control System & Upper Drive Pinch Roller Controls





12.3 Wedge Control System & Upper Drive Pinch Roller Controls

| Drawing 300-M07-5-1 | |
|---------------------|---------------------------------------|
| Part # | Description |
| 391064 | 10-32x1.50 818ss FHCS |
| 300058 | Pinch/Wedge Drive Arm Hub |
| 300056 | Pinch Roller Engagement Arm Shaft |
| 391075 | Handle Knob |
| 392012 | Dowel Pin .125x.500 |
| 310160 | Brng 1.875x.875x.500 |
| 300057 | Pinch/Wedge Drive Arm Spindle |
| 391062 | 10-32x.875 818ss FHCS |
| 310157 | Cam Roller Brng .500x.500x#10 |
| 391028 | 8-32x.25 818ss SS |
| 310145 | V-Wheel Roller |
| 310146 | Ecentric Hub V-Wheel |
| 391011 | 6-32x1.00 818ss SHCS |
| 300052 | Pinch/Wedge Drive Plate |
| 391026 | 8-32x.75 818ss SHCS |
| 392010 | Dowel Pin .188x1.00 |
| 300055 | Pinch/Wedge Drive Plate Housing |
| 310001 | Linear Rail / Linear Bearing Assembly |











12.4 Wedge Control System & Upper Drive Wedge Controls

| Drawing 300-M07-5-2 | | |
|---------------------|-------------------------------|--|
| Part # | Description | |
| 300085 | Wege Pivot Arm Hub | |
| 391072 | 10-32x.25 818ss SS | |
| 300084 | Wege Pivot Arm Shaft | |
| 391075 | Handle Knob | |
| 300080 | Wedge Pivot Shaft | |
| 310157 | Cam Roller Brng .500x.500x#10 | |
| 300079 | Wedge Height Adjuster | |
| 392020 | 10-32 Hex Nut | |
| 391085 | 1/4-20x.375 SS | |
| 300082 | Wege Pivot Linear Housing | |
| 310159 | Brng .875x.375x.28 | |
| 300086 | Wege Travel Auto Start Cam | |
| 391001 | 4-40x.625 818ss SHCS | |
| 300099 | Auto Start Switch Bracket | |
| 391010 | 6-32x.375 818ss SHCS | |
| 391082 | 1/4-20x.875 818ss SHCS | |
| 392026 | 1/4 Washer | |
| 300088 | Wege Angle Adjuster Hub | |
| 391014 | 6-32x.875 818ss SHCS | |
| 300089 | Wege Tensioner Upper Mount | |
| 391052 | 10-32x.875 818ss SHCS | |
| 392055 | Gas Spring | |
| 392057 | Mount Stud Gas Spring | |
| 391082 | 1/4-20x.750 818ss BHCS | |
| 393060 | Limit Sw | |
| 300083 | Wege Pivot Housing Cover | |
| 391053 | 10-32x1.00 818ss SHCS | |





12.5 Wedge Control System & Upper Drive Upper Roller Drive



12.5 Wedge Control System & Upper Drive Upper Roller Drive

| Drawing | 300-M07-5-3 |
|---------|-------------------------------------|
| Part # | Description |
| 392012 | Dowel Pin .125x.500 |
| 300072 | Upper Roller Arm Lift Mount |
| 391033 | 8-32x1.00 818ss SHCS |
| 391051 | 10-32x.75 818ss SHCS |
| 392025 | #10 Washer |
| 310126 | Pinch Roller 1.50 (std.) |
| 310128 | Needle Brng .687x.500x.625 |
| 300024 | Upper Roller Final Drive Shaft |
| 391034 | 8-32x2.00 818ss SHCS |
| 310159 | Brng .875x.375x.28 |
| 391028 | 8-32x.25 818ss SS |
| 300021 | Sprocket Std1475 pitch x 16 tooth |
| 300076 | Upper Final Chain Tension Block |
| 310135 | Chain |
| 310134 | Link |
| 391031 | 8-32x.625 818ss SHCS |
| 300077 | Upper Final Chain Rub Block |
| 300023 | Upper Roller Primary Shaft |
| 310158 | Brng .75x.25x.28 |
| 391063 | 10-32x1.00 818ss FHCS |
| 300071 | Upper Roller Arm Chain Cover |
| 300025 | Upper Roller Layshaft Support |
| 300022 | Upper Roller Layshaft |
| 320024 | Needle Brng .500x.312x.438 |
| 392040 | 5/16x.500 818ss SHSB |
| 300027 | Upper Primary Chain Tensioner |
| 300017 | Upper Primary Chain Idler Sprocket |
| 300026 | Upper Prim. Chain Tensioner Plunger |
| 392050 | Compression Spring |
| 392051 | Compression Spring |
| 310157 | Cam Roller Brng .500x.500x#10 |
| 300070 | Upper Roller Arm |
| 392080 | Keyway .125x1.0 |



12.6 Main Chassis Primary Drives





12.6 Main Chassis Primary Drives

| Drawing 300-M07-7-1 | | |
|---------------------|-----------------------------------|--|
| Part # | Description | |
| 391028 | 8-32x.25 818ss SS | |
| 391051 | 10-32x.75 818ss SHCS | |
| 300018 | Gear 24p 36t | |
| 300019 | Gear 24p 36t | |
| 300020 | Gear 24p 36t | |
| 310133 | Bushing Aluminum .625 | |
| 310158 | Brng .75x.25x.28 | |
| 300016 | Lower Primary Chain Tensioner | |
| 300021 | Sprocket Std1475 pitch x 16 tooth | |
| 300028 | U-Joint Standard | |
| 300029 | Lower Roller Layshaft | |
| 300030 | Lower Roller Primary Main Shaft | |
| 300031 | Lower Roller Primary Stub Shaft | |



12.7 Main Chassis Motor and Internal Controls



12.7 Main Chassis Motor and Internal Controls

| Drawing 300-M07-7-3 | |
|---------------------|--|
| Part # | Description |
| 391030 | 8-32x.500 818ss SHCS |
| 391001 | 4-40x.500 818ss SHCS |
| 391012 | 6-32x.500 818ss SHCS |
| 391049 | 10-32x.500 818ss SHCS |
| 391026 | 8-32x.75 818ss SHCS |
| 391060 | 10-32x.500 818ss FHCS |
| 391062 | 10-32x.875 818ss FHCS |
| 300124 | Over-Temp Control Panel |
| 31055(-240) | Over-Temperature Contact Relay (120V/240V) |
| 310156 | Over-Temp Relay Base |
| 310008 | Over-Temperature Control |
| 310009 | Over-Temp Control Base |
| 310129 | Drive Motor |
| 300122 | Motor Control Soliniod Mount |
| 300123 | Motor Control Resistor Mount 220V |
| 38101(.2) | Motor Control (110V/220V) |
| 310140 | A.M.P. Circular Conector Female |
| 310143 | A.M.P. Conector Pins Female |
| 310162 | Solid State Relay |
| 300125 | Over-Temp Control Panel Mount Foot |

12.8 Main Chassis Assembly

12.8 Main Chassis Assembly

| Drawing 300-M07-7-5 | |
|---------------------|-----------------------------|
| Part # | Description |
| 391055 | 10-32x2.75 818ss SHCS |
| 391050 | 10-32x.625 818ss SHCS |
| 392006 | Dowel Pin .250x.750 |
| 391053 | 10-32x1.00 818ss SHCS |
| 300003 | Chassis Motor Housing |
| 300004 | Chassis Control Housing |
| 300006 | Chassis Primary Drive Cover |
| 300002 | Chassis Housing |
| 300089 | Wege Tensioner Upper Mount |
| 391091 | 5/16-18x.875 818ss SHCS |
| 391092 | 5/16-18x1.25 818ss SHCS |
| 391071 | 10-32x.25 818ss BHCS |

12.9 Lap and Fin Weld System

12.9 Lap and Fin Weld System

| Drawing 300-M08-8-1 | |
|---------------------|-----------------------------------|
| Part # | Description |
| 391054 | 10-32x1.75 818ss SHCS |
| 391081 | 1/4-20x1.00 818ss SHCS |
| 310149 | Top Cover Handle |
| 310148 | Top Cover Handle |
| 310147 | Top Cover Handle |
| 320022 | Strain Relief |
| 300005 | Chassis Control Housing Top Cover |
| 392078 | Pinch Roller Tension Knob |
| 300078 | Upper Tensioner Knob Stop |

12.10 Hem Weld System

12.10 Hem Weld System

| Drawing 300-M07-9-3 | |
|---------------------|------------------------------|
| Part # | Title |
| 391072 | 10-32x.25 818ss SS |
| 392060 | 10-32x.625 303ss Thmb |
| 300111 | Hem Weld Outer Guide |
| 300115 | Hem Inner/Outer Guide Link |
| 300096 | Hem Outer Guide Retainer Rod |
| 391073 | 10-32x.500 818ss SS |

12.11 Cord/Flat HemWeld System

12.11 Cord/Flat HemWeld System

| Drawing 300-M07-9-4 | | |
|---------------------|-----------------------------------|--|
| Part # | Title | |
| 300352 | Cord-Hem .25 Wedge Hsg 1.00 lp | |
| 300362 | Cord-Hem Out/Top Gd .750x.080 | |
| 300365 | Cord-Hem Front Mat Gd 3/8 | |
| 300367 | Cord-Hem Front Mat Gd 3/8 & Lager | |
| 300372 | Cord-Hem Out/Btm Gd 1.0x1/8-3/8 | |
| 300375 | Cord-Hem .500 Out/Btm Gd 1.00 lp | |
| 300376 | Cord-Hem .625 Out/Btm Gd 1.00 lp | |
| 300144 | Cord-Hem Hot Wedge 1.00 | |
| 391086 | Thumb Screw 1.00 Head | |
| 300341A | Wedge Housing Bottom Cover | |

12.12 Tube Guide System

12.12 Tube Guide System

| Drawing 3 | 300-M07-9-6 |
|-----------|---------------------------------------|
| Part # | Title |
| 300330 | Tube Weld Right Rear Retainer Mount |
| 300331 | Tube Weld Left Rear Retainer Mount |
| 300332 | Tube Weld Top Edge Guide Mount |
| 300333 | Tube Weld Top Edge Guide |
| 300334 | Tube Weld Right Front Retainer Mount |
| 300335 | Tube Weld Left Edge Guide 4.00 |
| 300336 | Tube Weld Left Edge Guide 7.50 |
| 300337 | Tube Weld Middle Bottom Edge Guide |
| 300338 | Tube Weld Mid. L/R/Btm Edge Gd Mount |
| 300339 | Tube Weld Right Edge Guide |
| 300340 | Tube Weld Guide Retainer Rods <7.50 |
| 300341 | Tube Weld Left Front Retainer Mount |
| 300342 | Tube Weld Guide Retainer Rods <4.00 |
| 300343 | Tube Weld Front Bottom Material Tray |
| 300344 | Tube Weld Top Edge Guide Frame |
| 392062 | 4-40x.750 818ss FHMS |
| 391072 | 10-32x.25 818ss SS |
| 392060 | 10-32x.625 303ss Thmb |
| 392061 | 4-40x1875 818ss FHMS |
| 391002 | 4-40x.375 FHMS |
| 392064 | 10-32x.375 303ssThmb |
| 392065 | 10-32x1.875 818ss SHCS |
| 392066 | 10-32x1.125 818ss SHCS |

12.13 Top Cover Hem & Handles

12.13 Top Cover Hem & Handles

| Drawing 300-M08-8-1 | | |
|---------------------|-----------------------------------|--|
| Part # | Description | |
| 391054 | 10-32x1.75 818ss SHCS | |
| 391081 | 1/4-20x1.00 818ss SHCS | |
| 310149 | Top Cover Handle | |
| 310148 | Top Cover Handle | |
| 310147 | Top Cover Handle | |
| 320022 | Strain Releif | |
| 300005 | Chassis Control Housing Top Cover | |
| 392078 | Pinch Roller Tension Knob | |
| 300078 | Upper Tensioner Knob Stop | |

12.14 Top Cover Controls

12.14 Top Cover Controls

| Drawing 300-M08-8-3 | | |
|---------------------|---|--|
| Part # | Description | |
| 310003 | Contact n/o single contact | |
| 310002 | Selector Switch 2 pos | |
| 310004 | Selector Switch 3 pos | |
| 393050 | Fuse Holder | |
| 310136 | Main Temperature Control | |
| 38101(.2) | Speed Control Potentiometer (110V/220V) | |
| 310111 | Speed Control Knob | |
| 310006 | Indicator Lamp Green Lense | |
| 310007(2) | Indicator Lamp Base (110V/120V) | |
| 310007B | Indicator Lamp Bulb | |
| 310005 | Contact n/o double contact | |
| 393051 | 1/2 amp Fuse | |

13.0 Commonly Used Parts

| 300-039A | Wedge Heater Lead Bracket |
|----------|--|
| 300-130 | Chain Rub Bottom/Rear |
| 300-131 | Chain Rub - Top/Rear |
| 300-132 | Chain Tensioner - Bottom/Front |
| 300-133 | Chain Rub - Top/Front |
| 300-220C | Lower Primary Chain (10") |
| 300-221C | Lower Final Chain (26") |
| 300-222C | Upper Final Chain (17") |
| 310-134 | .1475 Master Link (each) |
| 310-124 | Drive Roller w/Bearing |
| 310-125 | Under Carriage Roller w/Bearing |
| 300-282 | Thermal Tape Lower Tape Guide (Torlon) |
| 300-380 | 1/2" (12mm) Pressure Roller Spacer (each) |
| 310126.1 | 1" (25mm) Silicone Roller (each) |
| 310-126 | 1-1/2" (38mm) Silicone Roller (each) |
| 310-1262 | 2" (51mm) Silicone Roller (each) |
| 391-050 | 5/8" Screw for 2" Pressure Roller + New 1" Hem Wedge (33-102 & 33-102.2) |
| 391-051 | 3/4" Screw for Holding Wedge to Hanger (Short) |
| 391-052 | 7/8" Screw for Holding Wedge to Hanger (Long) |
| 391-070 | 3/8" Button Screw for Pressure Roller |
| 392-025 | #10 Flat Washer for Pressure Roller |
| 392-080 | 11-8SS 1/8" Key Bar Stock |
| 310-109 | 120/240V Motor Controller |
| 310-008 | Overtemp Control 120V |
| CWE3.1 | Temp Controller, Easy Zone |
| 392-040 | 5/16" x 1/2" Shoulder Bolt (for CWE3.1) |
| 392-055 | Fix Force Gas Spring 20# |
| 392-056 | Metal End for Gas Spring |
| 392-058 | Safety Clip for Gas Spring |
| 392-035 | 3/8 x 5/8 x 0.062" (1/16") (1.59mm) Arbor Shim |
| 392-036 | 3/8 x 5/8 x 0.125" (1/8") (3.175mm) Arbor Shim |
| 392-037 | 3/8 x 5/8 x 0.031" (1/32") (0.794mm) Arbor Shim |
| 392-038 | 3/8 x 5/8 x 0.015" (1/64") (0.397mm) Arbor Shim |
| 393-025 | Aluminum Oxide Abrasive 1-1/2" x 12" |
| 393-051 | Electric Circuit Fuse, 250V, 5Amp |
| 310-114 | Electric Circuit Fuse, 250V, 3/4 Amp |
| 33-200 | Triad Hex Key Set |
| 42-401B | Aluminum Brush |
| 33-202 | End User Care Package |

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