FIELD INSTRUCTIONS

For AugmentedArc® Software Version 1.3 Upgrade Kit 283070

Have only trained and qualified persons install, operate, or service this unit. Call your distributor or the equipment manufacturer if you do not understand the directions. For WELDING SAFETY and EMF information, read Owner’s Manual.

All directions are given as facing front panel.
Keep hardware for reuse.

Staple these instructions inside Owner’s Manual.

1. Safety Symbol Definitions

DANGER! – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

NOTICE

Indicates statements not related to personal injury.

Indicates special instructions.

Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

Wear safety glasses with side shields.

CALIFORNIA PROPOSITION 65 WARNINGS

WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

2. Tools Needed

3. Updating Software

Install AugmentedArc software version 1.3 from https://www.millerwelds.com/aasoftware.

This kit consists of new coupons, an AR TIG tip, an AR MIG tip, and a MIG gun head tube. After installing the software, follow instructions in Section 5 to install new AR TIG tip. Follow instructions in Section 6 to replace MIG gun head tube and install new AR MIG tip.

The old weld coupons will not work with the new software version. Old coupons must be kept out of sight of the AugmentedArc camera.

4. Parts List

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
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<tr>
<td></td>
<td>277274</td>
<td>AugmentedArc Butt Joint Coupon</td>
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<tr>
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<td>277270</td>
<td>AugmentedArc T Joint Coupon</td>
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<td>AugmentedArc Lap Joint Coupon</td>
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<td>AugmentedArc TIG Torch AR Tip</td>
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<td>Kit, AugmentedArc MIG Gun AR Tip</td>
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<td>282742</td>
<td>Tube, Body AugmentedArc MIG Gun</td>
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</tbody>
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5. Assembling AR TIG Torch

1. AR TIG Torch
2. Backcap
3. Cup
4. Collet Body
5. Tungsten Electrode
6. Collet
7. Heat Shield

Remove backcap (counterclockwise).

The original backcap is not used in the AR TIG torch assembly and can be discarded.

Unscrew cup and collet body (counterclockwise).

Remove tungsten electrode and collet.

Remove heat shield.

8. TIG Torch AR Nozzle
9. TIG Torch AR Tip
10. TIG Torch AR Backcap

Locate TIG torch AR nozzle, tip, and backcap supplied with system.

Insert the head of the torch into the opening of the AR nozzle. Insert the AR backcap through the opening in the rear of the AR nozzle and screw into the TIG torch head (clockwise).

Screw the TIG torch AR tip into the TIG torch AR nozzle (clockwise).
6. Replacing Head Tube And Installing MIG Gun AR Tip

1. Handle Locking Nut
2. Head Tube
   Remove handle locking nut. Secure head tube in vise.
3. Shock Washers
4. Jam Nut
5. Cable Connector
   Remove shock washers from front and rear of head tube.
   Loosen jam nut. Remove from vise and turn head tube out by hand.

⚠️ Do not disturb cable connection between cable connector and connector nut.

Install both existing shock washers onto the new head tube. Hand-tighten head tube into cable connector.
Place head tube in vise and tighten until nuts are tight.
Remove from vise. Reposition handle. Secure with handle locking nut.
6. MIG Gun AR Tip
   Screw new AR tip on gun (clockwise).