

Upgrading CPU Card, Replacing CPU Card Battery, and Installing Communication Card

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Introduction

Qualified Persons

WARNING

Only qualified persons who are knowledgeable in the installation, operation, and maintenance of overhead and underground electric distribution equipment, along with all associated hazards, may install, operate, and maintain the equipment covered by this publication. A qualified person is someone who is trained and competent in:

- The skills and techniques necessary to distinguish exposed live parts from nonlive parts of electrical equipment
- The skills and techniques necessary to determine the proper approach distances corresponding to the voltages to which the qualified person will be exposed
- The proper use of special precautionary techniques, personal protective equipment, insulated and shielding materials, and insulated tools for working on or near exposed energized parts of electrical equipment

These instructions are intended **ONLY** for such qualified persons. They are not intended to be a substitute for adequate training and experience in safety procedures for this type of equipment.

Read this Instruction Sheet

NOTICE

Thoroughly and carefully read this instruction sheet and all materials included in the product's instruction handbook before installing or operating a Micro-AT Source-Transfer Control. Familiarize yourself with the Safety Information and Safety Precautions on pages 3 and 4. The latest version of this publication is available online in PDF format at sandc.com/en/support/product-literature/.

Retain this Instruction Sheet

This instruction sheet is a permanent part of the Micro-AT Source-Transfer Control. Designate a location where you can easily retrieve and refer to this publication.

Proper Application

WARNING

The equipment in this publication must be selected for a specific application. The application must be within the ratings furnished for the equipment.

Warranty

The warranty and/or obligations described in S&C's Price Sheet 150, "Standard Conditions of Sale—Immediate Purchasers in the United States," (or Price Sheet 153, "Standard Conditions of Sale—Immediate Purchasers Outside the United States"), plus any special warranty provisions, as set forth in the applicable product-line specification bulletin, are exclusive. The remedies provided in the former for breach of these warranties shall constitute the immediate purchaser's or end user's exclusive remedy and a fulfillment of the seller's entire liability. In no event shall the seller's liability to the immediate purchaser or end user exceed the price of the specific product that gives rise to the immediate purchaser's or end user's claim. All other warranties, whether express or implied or arising by operation of law, course of dealing, usage of trade or otherwise, are excluded. The only warranties are those stated in Price Sheet 150 (or Price Sheet 153), and **THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY EXPRESS WARRANTY OR OTHER OBLIGATION PROVIDED IN PRICE SHEET 150 (OR PRICE SHEET 153) IS GRANTED ONLY TO THE IMMEDIATE PURCHASER AND END USER, AS DEFINED THEREIN. OTHER THAN AN END USER, NO REMOTE PURCHASER MAY RELY ON ANY AFFIRMATION OF FACT OR PROMISE THAT RELATES TO THE GOODS DESCRIBED HEREIN, ANY DESCRIPTION THAT RELATES TO THE GOODS, OR ANY REMEDIAL PROMISE INCLUDED IN PRICE SHEET 150 (OR PRICE SHEET 153).**

Understanding Safety-Alert Messages

Several types of safety-alert messages may appear throughout this instruction sheet and on labels and tags attached to the Micro-AT Source-Transfer Control. Familiarize yourself with these types of messages and the importance of these various signal words:

⚠ DANGER
“DANGER” identifies the most serious and immediate hazards that will likely result in serious personal injury or death if instructions, including recommended precautions, are not followed.
⚠ WARNING
“WARNING” identifies hazards or unsafe practices that can result in serious personal injury or death if instructions, including recommended precautions, are not followed.
⚠ CAUTION
“CAUTION” identifies hazards or unsafe practices that can result in minor personal injury if instructions, including recommended precautions, are not followed.
NOTICE
“NOTICE” identifies important procedures or requirements that can result in product or property damage if instructions are not followed.

Following Safety Instructions

If you do not understand any portion of this instruction sheet and need assistance, contact your nearest S&C Sales Office or S&C Authorized Distributor. Their telephone numbers are listed on S&C’s website sandc.com, or call the S&C Global Support and Monitoring Center at 1-888-762-1100.

NOTICE	
Read this instruction sheet thoroughly and carefully before installing a Micro-AT Source-Transfer Control.	

Replacement Instructions and Labels

If additional copies of this instruction sheet are needed, contact your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

It is important that any missing, damaged, or faded labels on the equipment be replaced immediately. Replacement labels are available by contacting your nearest S&C Sales Office, S&C Authorized Distributor, S&C Headquarters, or S&C Electric Canada Ltd.

DANGER



Micro-AT Source-Transfer Controls operate equipment at high voltage. Failure to observe the precautions below will result in serious personal injury or death.

Some of these precautions may differ from your company's operating procedures and rules. Where a discrepancy exists, follow your company's operating procedures and rules.

- 1. QUALIFIED PERSONS.** Access to a Micro-AT Source-Transfer Control must be restricted only to qualified persons. See the "Qualified Persons" section on page 2.
- 2. SAFETY PROCEDURES.** Always follow safe operating procedures and rules.
- 3. PERSONAL PROTECTIVE EQUIPMENT.** Always use suitable protective equipment, such as rubber gloves, rubber mats, hard hats, safety glasses, and flash clothing, in accordance with safe operating procedures and rules.
- 4. SAFETY LABELS.** Do not remove or obscure any of the "DANGER," "WARNING," "CAUTION," or "NOTICE" labels.
- 5. OPERATING MECHANISM AND BASE.** Do not remove or disassemble operating mechanisms or remove access panels on the Micro-AT Source-Transfer Control unless directed by S&C Electric Company.
- 6. ENERGIZED COMPONENTS.** Always consider all parts live until de-energized, tested, and grounded. Voltage levels can be as high as the peak line-to-ground voltage last applied to the unit. Units that have been energized or installed near energized lines should be considered live until tested and grounded.
- 7. MAINTAINING PROPER CLEARANCE.** Always maintain proper clearance from energized components.

This publication provides instructions for upgrading the CPU card of a Micro-AT Source-Transfer Control, either through replacement of firmware or through replacement of the CPU card itself. This publication also provides instructions for replacing the CPU card battery and for installing a communications card in a Micro-AT Source-Transfer Control.

When replacing firmware, circuit cards, or a component, precautions should be taken to prevent static charges, which can damage not only the existing item but the replacement item as well. Although replacement items are furnished in static-shielded bags, the use of a static-dissipative work surface, such as the 3M 8501 Portable Static-Dissipative Field Service Kit (available from S&C as catalog number 9931-218), is highly recommended. This kit includes a static-dissipative work mat and a ground cord assembly with wrist strap, for connecting the mat—along with the person changing the item—to the same ground point.

Tools Required

- An integrated-circuit extraction tool (furnished by S&C with replacement firmware)
- A Torx screwdriver for #4-40 pan-head and #6-32 truss head T10 machine screws (furnished by S&C with communication card)
- A utility knife (not furnished)

Upgrading CPU Card

Follow these steps to upgrade the CPU card in a Micro-AT Source-Transfer Control:

- STEP 1.** Place the MANUAL/AUTOMATIC operation selector switch on the Micro-AT Source-Transfer Control in the **Manual** position.
- STEP 2.** Decouple each operator from its interrupter switch—unless temporary service interruptions are permissible. Refer to the S&C instruction sheet furnished with the pad-mounted gear or metal-enclosed switchgear, Source-Transfer Vista® Underground Distribution Switchgear, or, in weatherproof enclosure applications, the S&C instruction sheet furnished with the switch operators.
- STEP 3.** *For pad-mounted gear, metal-enclosed switchgear, and Source-Transfer Vista Underground Distribution Switchgear applications:* If necessary, remove the appropriate cover assembly to access the input plug. See Figure 1. In metal-enclosed switchgear

originally furnished with a Type AT-2 or Type AT-3 Source Transfer Control, as well as metal-enclosed switchgear manufactured after June 1993, the input plug is accessible by drawing out the Micro-AT Source-Transfer Control from the switchgear-bay stile. Remove the input plug from the Input Receptacle and immediately transfer it to the Shorting Receptacle, if provided.

Removing the input plug in metal-enclosed switchgear applications where no Shorting Receptacle is present will remove control power to the Micro-AT Source-Transfer Control.

⚠ CAUTION

Failure to immediately place the input plug on the Shorting Receptacle may result in damage to the voltage sensors and voltage limiters that will render the automatic-transfer scheme inoperative.

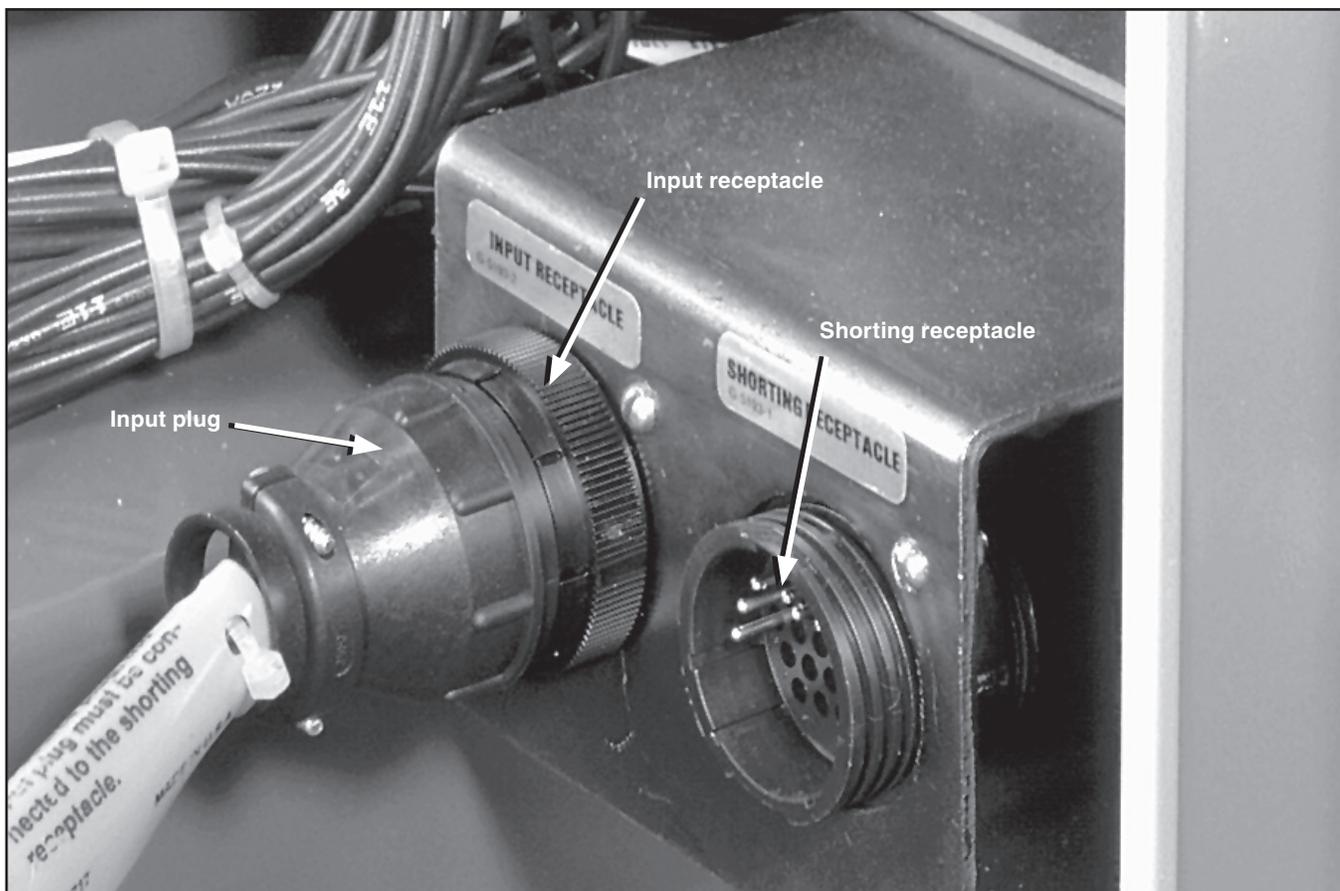


Figure 1. Transferring the input plug to the shorting receptacle. Typical pad-mounted gear application is shown; metal-enclosed switchgear and Source-Transfer Vista Underground Distribution Switchgear applications are similar.

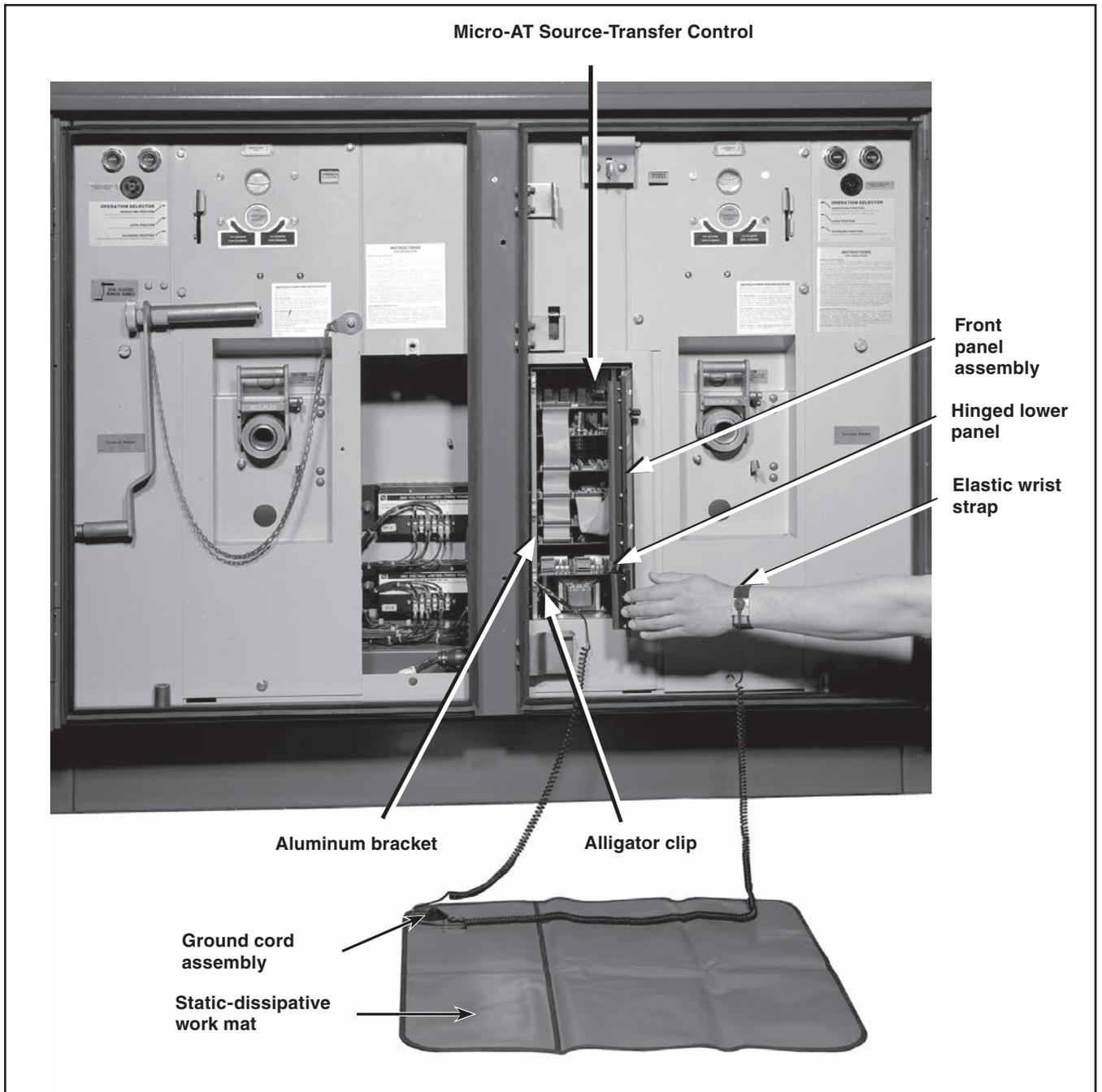


Figure 2. Setting up a 3M 8501 Portable Static-Dissipative Field Service Kit.

In pad-mounted gear applications:

This procedure short-circuits and isolates the secondaries of the voltage sensors and also isolates the current sensors used with the optional **Overcurrent-Lockout** feature, if furnished.

In metal-enclosed switchgear applications:

This procedure short-circuits and isolates the secondaries of the voltage sensors, if furnished, and isolates the voltage transformers.

For weatherproof enclosure applications:

Remove the voltage-transformer secondary fuses.

For Source-Transfer Vista Underground Distribution Switchgear:

This procedure isolates the voltage transformers and voltage signal amplifiers.

NOTICE

If a circuit card is to be replaced in pad-mounted gear originally furnished with a Type AT-12 Source-Transfer Control, the Micro-AT Source-Transfer Control is on the left-hand side of the low-voltage control compartment in such installations, as shown in Figure 5 on page 15, omit Steps 5 through 20 and instead follow the step-by-step procedure outlined in the Appendix on page 14.

STEP 4. Open up the static-dissipative work mat in front of the Micro-AT Source-Transfer Control. See Figure 2 on page 7.

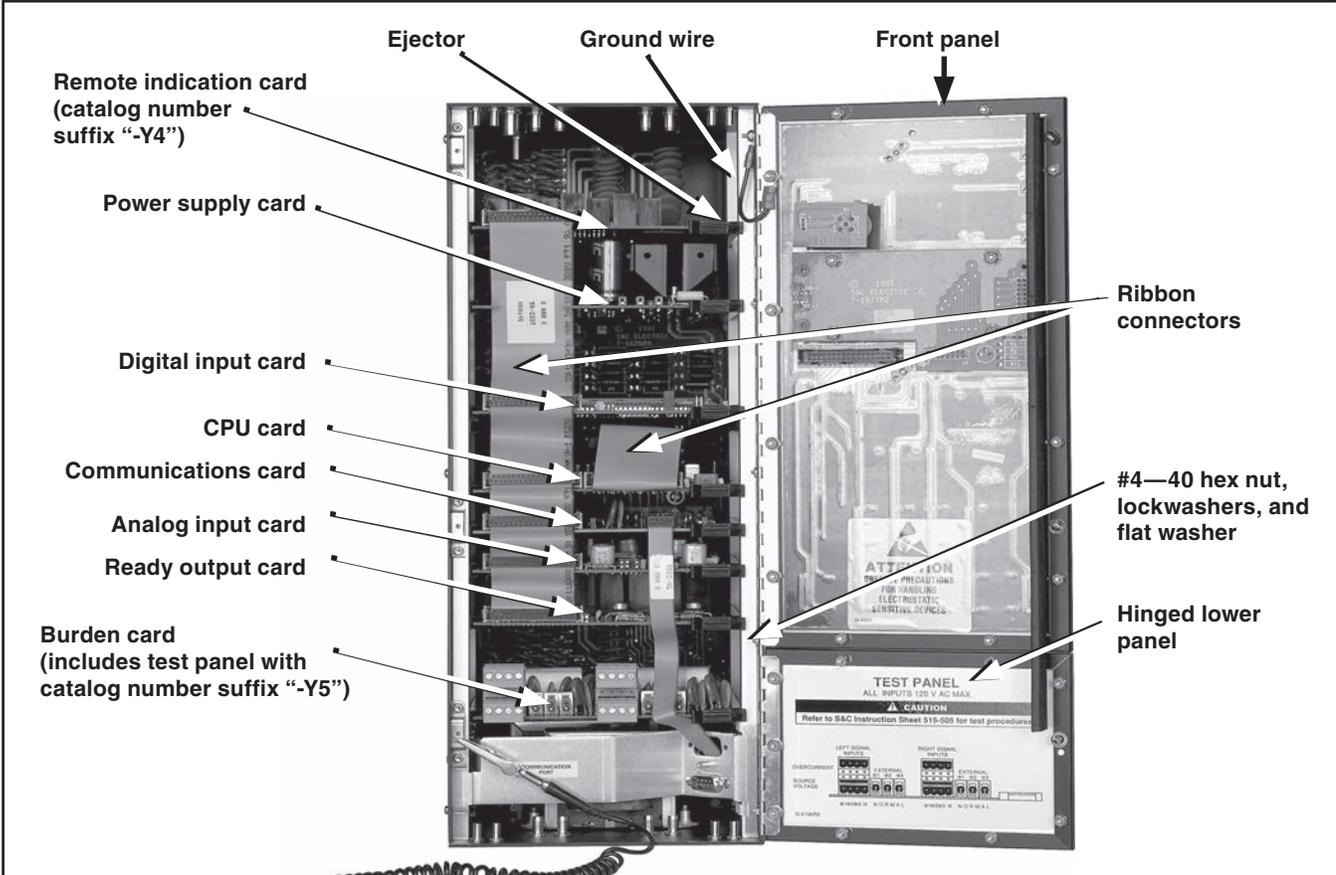


Figure 3. Layout of circuit cards in the Micro-AT Source-Transfer Control.

Loosen the two screws that retain the front panel assembly and swing open the front panel assembly. Also loosen the screw that retains the hinged lower panel and swing open the lower panel. See Figure 2 on page 7.

STEP 5. Attach the ground cord assembly onto the work mat by means of the large black snap. See Figure 2 on page 7.

STEP 6. Attach the alligator clip on the shorter of the two wire leads to one of the three aluminum brackets on the source-transfer control enclosure. See Figure 2 on page 7. The lowest bracket is generally the most convenient to use.

STEP 7. Slip on the elastic wrist strap and attach the band so it fits snugly, but comfortably. Attach the longer of the two wire leads to the wrist band by means of the small plastic snap. See Figure 2 on page 7.

STEP 8. *If firmware is to be replaced on the Micro-AT CPU card:*

- (a) Carefully detach the ribbon connector plugs from their receptacles on the three lowest circuit cards. Also detach the ribbon connector plug connecting the front panel assembly to the CPU card. See Figure 3 on page 8.
- (b) Pull the ejector on the right edge of the CPU card to withdraw the CPU card connector from the receptacle in the source-transfer control enclosure. Then, place the CPU card on the static-dissipative work mat.
- (c) Place the CPU card with the ribbon connector receptacles facing you. Using the extraction tool provided, remove the two EPROM “H” and “L” from their sockets, “U6” and “U5” respectively. Refer to Figure 4 on page 10. Place the removed firmware on the work mat.
- (d) Remove replacement EPROM “L” from the static-shielded bag. With the letter “L” facing you, insert the EPROM into the “U5” socket. (The “L” on the EPROM will be at the bottom of the chip, with the ribbon connector receptacles at the bottom of the CPU card.)
- (e) Insert replacement EPROM “H” into the “U6” socket using the same process. (The orientation is the same as for EPROM “L”).

(f) Take care to make sure that all of the pins of EPROM “H” and “L” are properly inserted in their sockets.

(g) Plug in the CPU card, making sure the connector on the circuit card is fully inserted in its receptacle in the source-transfer control enclosure.

(h) If the communications card is not being added, carefully reattach the ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted; proceed to Step 11 on page 12. If a communications card is being installed, proceed to Step 9 on page 12.

If the CPU card is to be replaced in the Micro-AT control:

(a) Check the configuration of the existing CPU card against the default settings provided on the configuration chart. Note on the chart any settings that need to be changed on the replacement CPU card.

(b) Carefully detach the ribbon connector plugs from their receptacles on the three lowest circuit cards. Also detach the ribbon connector plug connecting the front panel assembly to the CPU card. See Figure 3 on page 8.

(c) Pull the ejector on the right edge of the CPU card to withdraw the CPU card connector from the receptacle in the source-transfer control enclosure. Then, place the CPU card on the static-dissipative work mat.

(d) Remove the replacement CPU card from its static-shielded bag.

(e) Plug in the replacement CPU card, making sure that the connector on the circuit card is fully inserted in its receptacle in the source-transfer control enclosure.

(f) If the communications card is not being added, carefully reattach the ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted. Proceed to Step 11 on page 12. If the communications card is being installed, proceed to Step 9 on page 12.

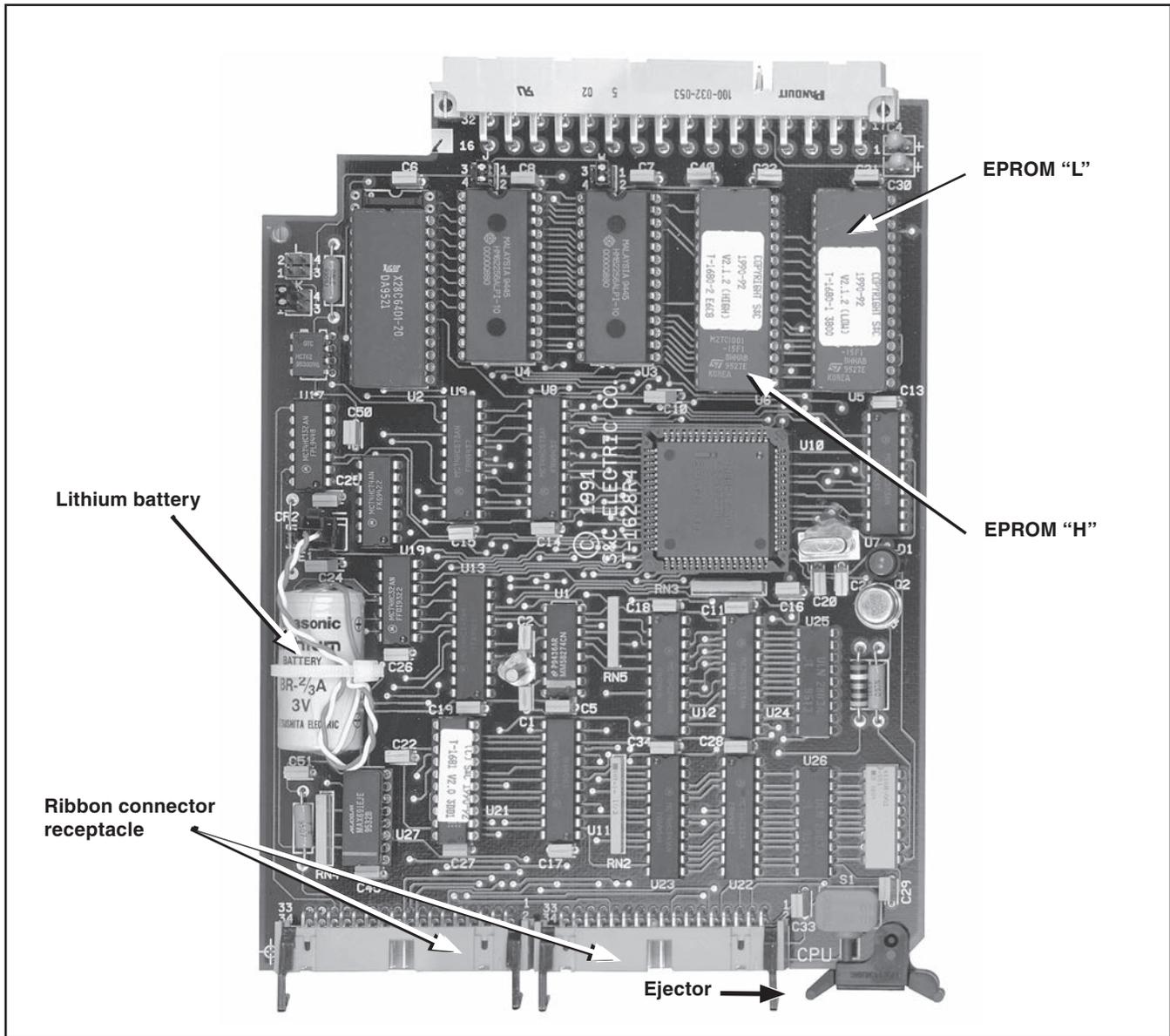


Figure 4. The CPU card.

Complete the following steps if the battery is to be replaced on the Micro-AT control CPU Card:

- STEP 1.** Carefully detach the ribbon connector plugs from their receptacles on the three highest circuit cards. Also detach the ribbon connector plug connecting the front panel assembly to the CPU card. See Figure 3 on page 8.
- STEP 2.** Pull the ejector on the right edge of the CPU card to withdraw the CPU card connector from the receptacle in the source-transfer control enclosure. See Figure 3 on page 8. Then, place the CPU card on the static-dissipative work mat.
- STEP 3.** Cut the tie wrap holding the lithium battery in place.
- STEP 4.** Depress the tab and remove the lithium battery plug from the black plastic receptacle of the CPU card. See Figure 4 on page 10.
- STEP 5.** Dispose of the lithium battery according to EPA guidelines.
- STEP 6.** Insert the plug of the new lithium battery into the black plastic receptacle carefully following polarity marks on the battery.

- STEP 7.** Set the new lithium battery in the large slot in the CPU card. Loop the two conductors against the battery, thread a new tie wrap through the two small slots in the CPU card, and close the tie wrap so the new lithium battery is not loose against the CPU card. Do not overtighten the tie wrap or the battery and its wiring can be damaged.
- STEP 8.** Reinstall the CPU card in the Micro-AT control and reinstall the ribbon cables.
- STEP 9.** Power up the Micro-AT control. Set the date and time through the **Time** menu. If the batteries were swapped quickly enough, the date/time setting will still be valid and accurate.

NOTICE

The Micro-AT control CPU Card battery should be replaced every 10 years. Catalog number TA-2299 is available from S&C Electric Company.

Installing Communication Card

Complete the following steps if a communication card is to be installed in the Micro-AT control:

- STEP 1.** Carefully disconnect all the ribbon connector plugs from their receptacles on the circuit cards.
- STEP 2.** Place the communication card into the rails provided in the source-transfer control enclosure, making sure the connector on the circuit card is fully inserted in its receptacle in the enclosure.
- STEP 3.** Carefully attach the replacement ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted.
- STEP 4.** Remove the bottom T10 Torx screw holding the panel screw retainer for the lower panel.
- STEP 5.** Holding the communication port bracket with the label facing you and the port toward your right, note the two clips used to attach the bracket to the right guide mounting rail in the enclosure.
- STEP 6.** Place the bracket at an angle with the clips toward the enclosure. Place the base of the clips onto the face of the right rail. Then, move the left side of the bracket toward the left rail; the clips will snap onto the right rail.
- STEP 7.** Push the left side of the bracket until the bracket is flush with the rail. Replace the T10 Torx screw through the bracket and the rail. Tighten the screw securely, but do not overtighten it.
- STEP 8.** Feed the 9-pin ribbon connector from the back of the port bracket to the communications card.
- STEP 9.** Carefully attach the ribbon connector plug to the right-hand receptacle on the communications card, making sure the connector is fully inserted.
- STEP 10.** Remove the lower panel card retainer, if one is present.
- STEP 11.** Place the stencil (furnished) over the retainer, with the top line of the stencil at the edge of the retainer. Cut along the dotted line.

STEP 12. Pull the gray portion of the retainer rubber away from the backing.

STEP 13. Remove the wrist strap and detach the ground cord assembly lead from the aluminum bracket on the source-transfer control enclosure. Then, remove the static-dissipative kit from the work area.

STEP 14. Close the front panel assembly and tighten the two screws that retain it. Also, close the lower panel and tighten the screw that retains it.

STEP 15. *For pad-mounted gear and metal-enclosed switchgear applications:* Remove the input plug from the shorting receptacle and immediately transfer it to the input receptacle.

CAUTION

Failure to immediately place the input plug on the input receptacle may result in damage to the voltage sensors and voltage limiters that will render the automatic-transfer scheme inoperative.

STEP 16. *For weatherproof enclosure applications:* Replace the voltage-transformer secondary fuses.

STEP 17. *If the CPU card firmware was replaced or the CPU card itself was replaced:* Refer to S&C Instruction Sheet 515-500 or 515-600 and perform all of the programming steps outlined in the “Field Adjustment And Programming” section.

STEP 18. Refer to S&C Instruction Sheet 515-500 or 515-600 and perform the steps outlined in the “Operational Testing” section.

STEP 19. Place the MANUAL/AUTOMATIC operation selector switch on the Micro-AT Source-Transfer Control in the **Manual** position.

STEP 20. Couple each operator to its interrupter switch. Refer to the S&C instruction sheet furnished with the pad-mounted gear or metal-enclosed switchgear or, in weatherproof enclosure applications, the S&C instruction sheet furnished with the switch operators.

STEP 21. Place the MANUAL/AUTOMATIC operation selector switch on the Micro-AT Source-Transfer Control in the **Automatic** position and confirm that the AUTOMATIC TRANSFER READY indicator lamp is illuminated.

STEP 22. Replace any cover assemblies which were removed. Close and padlock the gear or weatherproof enclosure and return it to service.

To obtain repair service for the replaced component, perform each of the following steps:

STEP 23. Contact your local S&C Representative for a Return Authorization and Flat-Rate Repair quotation.

NOTICE

If a CPU card is to be upgraded or a communication card installed in pad-mounted gear originally furnished with a Type AT-12 Source-Transfer Control, the Micro-AT Source-Transfer Control is on the left-hand side of the low-voltage control compartment in such installation, as shown in Figure 5 on page 15.

To work with pad-mounted gear originally furnished with a Type AT-12 Source-Transfer Control, start with Steps 1 through 4 on pages 6 and 8. Then, continue here to with Step 1:

STEP 1. With the access cover assembly on the right-hand side of the low-voltage control compartment removed, as shown in Figure 5 on page 15, loosen the two screws which retain the door assembly of the source-transfer control enclosure and swing open the door assembly. See Figure 5 on page 15.

STEP 2. Attach the ground cord assembly onto the work mat by means of the large black snap. See Figure 2 on page 7.

STEP 3. Attach the alligator clip on the shorter of the two wire leads to one of the three aluminum brackets on the source-transfer control enclosure. See Figure 5 on page 15. The lowest bracket is generally the most convenient to use.

STEP 4. Slip on the elastic wrist strap and attach the band so it fits snugly, but comfortably. Attach the longer of the two wire leads to the wrist band by means of the small plastic snap. See Figure 2 on page 7.

STEP 5. *If firmware is to be replaced on the Micro-AT control CPU card:*

- (a) Carefully detach the ribbon connector plugs from their receptacles on the three lowest circuit cards. Also, detach the ribbon connector plug connecting the front panel assembly to the CPU card. See Figure 3 on page 8.
- (b) Pull the ejector on the right edge of the CPU card to withdraw the CPU card connector from the receptacle in the source-transfer control enclosure. Then, place the CPU card on the static-dissipative work mat.
- (c) Place the CPU card with the ribbon connector receptacles facing you. Using the extraction tool provided, remove the two EPROM “H” and “L” from their sockets, “U6” and “U5” respectively. Refer to Figure 4 on page 10. Place the removed firmware on the work mat.

- (d) Remove replacement EPROM “L” from the static-shielded bag. With the letter “L” facing you, insert the EPROM into the “U5” socket. (The “L” on the EPROM will be at the bottom of the chip, with the ribbon connector receptacles at the bottom of the CPU card.)
- (e) Insert replacement EPROM “H” into the “U6” socket using the same process. (The orientation is the same as for EPROM “L”.)
- (f) Make sure all of the pins of EPROM “H” and “L” are properly inserted in their sockets.
- (g) Plug in the CPU card, making sure the connector on the circuit card is fully inserted in its receptacle in the source-transfer control enclosure.
- (h) If the communications card is not being added, carefully reattach the ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted. Proceed to Step 7 on page 16. If a communications card is being installed, proceed to Step 6 on page 16.

If the CPU card is to be replaced in the Micro-AT control:

- (a) Check the configuration of the existing CPU card against the default settings provided on the configuration chart. Note on the chart any settings that need to be changed on the replacement CPU card.
- (b) Carefully detach the ribbon connector plugs from their receptacles on the three lowest circuit cards. Also detach the ribbon connector plug connecting the front panel assembly to the CPU card. See Figure 2 on page 7.
- (c) Pull the ejector on the right edge of the CPU card to withdraw the CPU card connector from the receptacle in the source-transfer control enclosure. Then, place the CPU card on the static-dissipative work mat.
- (d) Remove the replacement CPU card from its static-shielded bag.
- (e) Plug in the replacement CPU card, making sure the connector on the circuit card is fully inserted in its receptacle in the source-transfer control enclosure.
- (f) If the communications card is not being added, carefully reattach the ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted. Proceed to Step 7 on page 16. If the communications card is being installed, proceed to Step 6 on page 16.

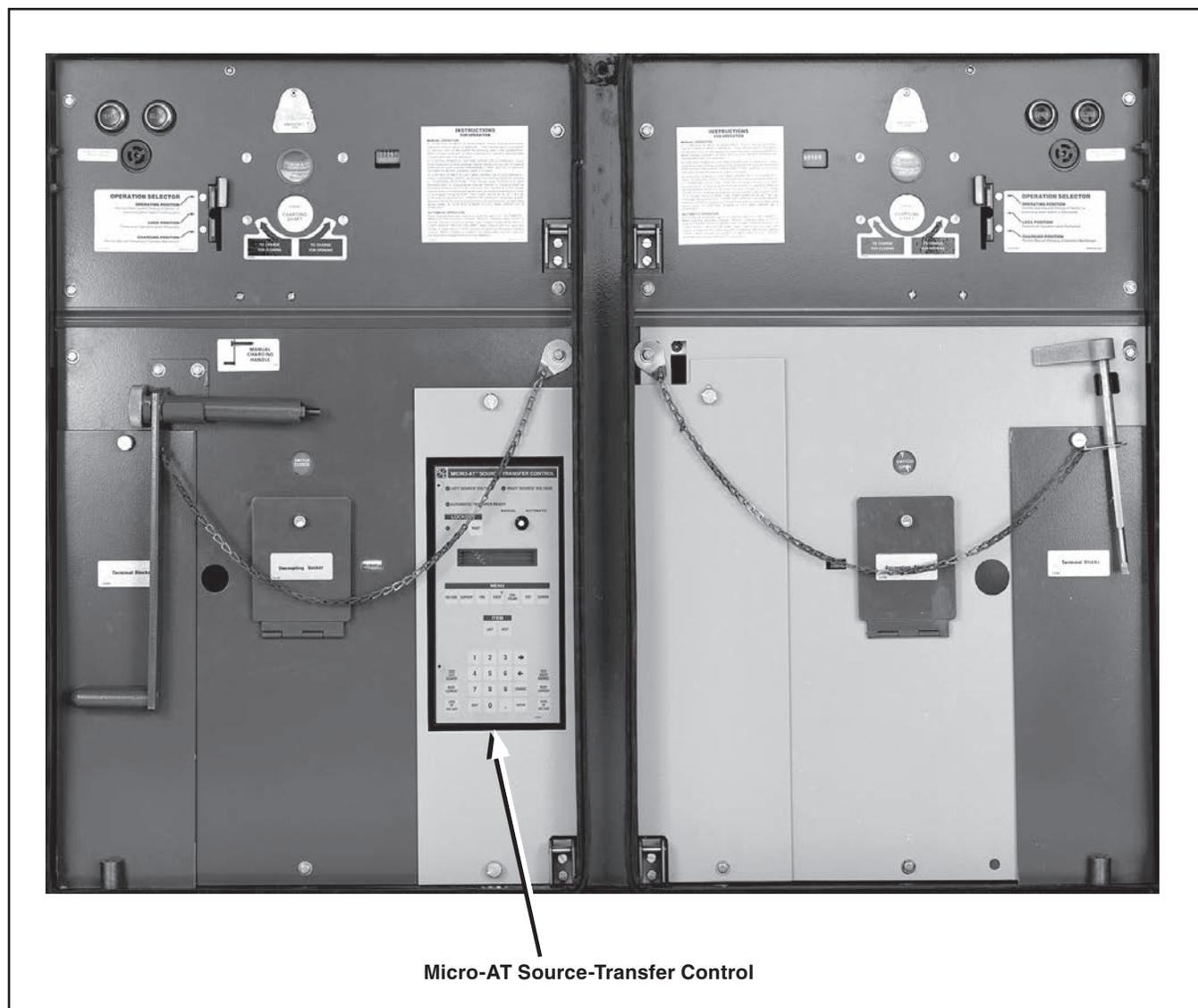


Figure 5. Pad-mounted gear that was originally furnished with a Type AT-12 Source-Transfer Control. Note the Micro-AT Source-Transfer Control is on the left-hand side of the low-voltage control compartment.

STEP 6. *If a communications card is to be installed in the Micro-AT control:*

- (a) Carefully disconnect all the ribbon connector plugs from their receptacles on the circuit cards.
- (b) Place the communications card into the rails provided in the source-transfer control enclosure, making sure the connector on the circuit card is fully inserted in its receptacle in the enclosure.

Carefully attach the replacement ribbon connector plugs to their receptacles on the circuit cards, making sure each connector is fully inserted.

- (c) Remove the bottom T10 Torx screw holding the panel screw retainer for the lower panel.
- (d) Holding the communication port bracket with the label facing you and the port toward your right, note the two clips used to attach the bracket to the right guide mounting rail in the enclosure.
- (e) Place the bracket at an angle with the clips toward the enclosure. Place the base of the clips onto the face of the right rail. Then move the left side of the bracket toward the left rail; clips will snap onto the right rail.
- (f) Push the left side of the bracket until the bracket is flush with the rail. Replace the T10 Torx screw through the bracket and the rail. Tighten the screw securely, do not overtighten it.
- (g) Feed the 9-pin ribbon connector from the back of the port bracket to the communications card.
- (h) Carefully attach the ribbon connector plug to the right-hand receptacle on the communications card, making sure the connector is fully inserted.
- (i) Remove the lower panel card retainer, if one is present.
- (j) Place the stencil (furnished) over the retainer, with the top line of the stencil at the edge of the retainer. Cut along the dotted line.
- (k) Pull the gray portion of the retainer rubber away from the backing.

STEP 7. Remove the wrist strap and detach the ground cord assembly lead from the aluminum bracket on the source-transfer control enclosure. Then, remove the static-dissipative kit from the work area.

STEP 8. Close the door assembly and tighten the two screws that retain it.

STEP 9. Remove the input plug from the shorting receptacle and immediately transfer it to the input receptacle. See Figure 1 on page 6.

⚠ CAUTION

Failure to immediately place the input plug on the Input Receptacle may result in damage to the voltage sensors and voltage limiters that will render the automatic-transfer scheme inoperative.

If the CPU card firmware was replaced or the CPU card itself was replaced: Refer to S&C Instruction Sheet 515-500 and perform all the programming steps outlined in the “Field Adjustment and Programming” section.

STEP 10. Refer to S&C Instruction Sheet 515-500 and perform the steps outlined in the “Operational Testing” testing section.

STEP 11. Place the MANUAL/AUTOMATIC operation selector switch on the Micro-AT Source-Transfer Control in the **Manual** position.

STEP 12. Couple each operator to its interrupter switch. Refer to the S&C instruction sheet furnished with the pad-mounted gear.

STEP 13. Place the MANUAL/AUTOMATIC operation selector switch on the Micro-AT Source-Transfer Control in the **Automatic** position and confirm the AUTOMATIC TRANSFER READY indicator lamp is illuminated.

STEP 14. Replace the cover assemblies that were removed. Close and padlock the gear and return it to service.

To obtain repair service for the replaced component, perform the following:

STEP 15. Contact your local S&C Representative for a Return Authorization and Flat-Rate Repair quotation.