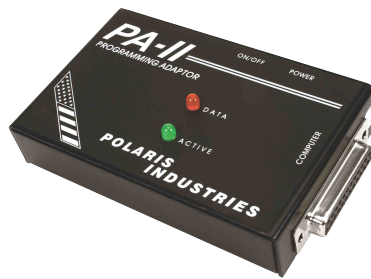




<http://www.polarisradio.com>



Polaris Industries, Inc.



PA-I, PA-II & PA-III Operations Manual

Compatible Motorola Radio Programming Adaptors

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***Our most recent Tech Tips and Radio Manual as well as
Radio Cables and Programming Adaptor Equipment are now available
Online!***

[Http://www.PolarisRadio.com](http://www.PolarisRadio.com)

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Introduction

Polaris Industries, Inc. (PII) introduces our PA-1, PA-2 and PA-3 Programming Adaptors. These adaptors are high-performance replacements for the Motorola Radio Interface Box (RIB), and work in an identical manner. Our professional design utilizes flexible state-of-the-art technology and portability. When used in conjunction with our advanced Radio Programming Cables and Motorola Software (not included), these programming adaptors support high-speed bi-directional communication between your PC/laptop and Motorola Radio.

Items Included

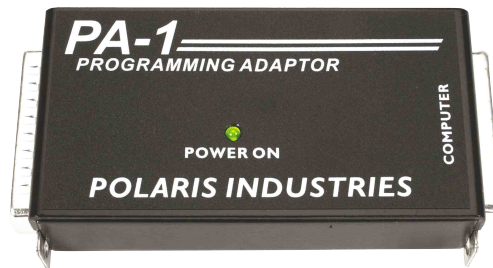
Connector Types

There are only two types of connectors that are involved in the setup of this equipment. These are 25 pin connectors (DB25) and 9 Pin connectors (DB9). Of these connectors there are two genders, male and female. Male connectors have pins and female connectors have holes.

PA-1 Programming Adaptor

Visible Features:

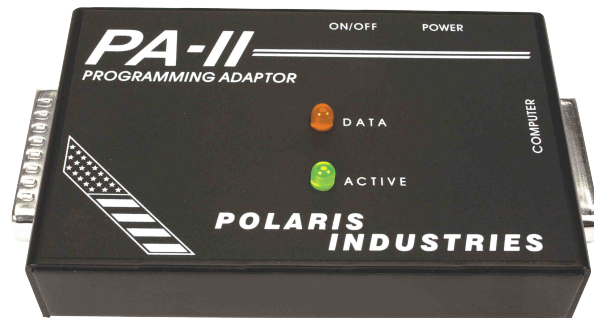
- Rugged Steel Case
- 1 Power LED
- 1 Connector For Power Adaptor
- 1 DB 25 Connectors for Computer and Radio
- Dimension: 3.75(W) x 2(H) x .87(D) inch
- Weight: 3.0 ounces



PA-2 Programming Adaptor

Visible Features:

- Rugged Steel Case
- Power On LED
- Battery Charging LED
- Power On/Off Switch
- Connector For Power Adaptor
- DB 25 Connectors for Computer and Radio
- Dimension: 4.93(W) x 2.75(H) x .87(D) inch
- Weight: 6.5 ounces

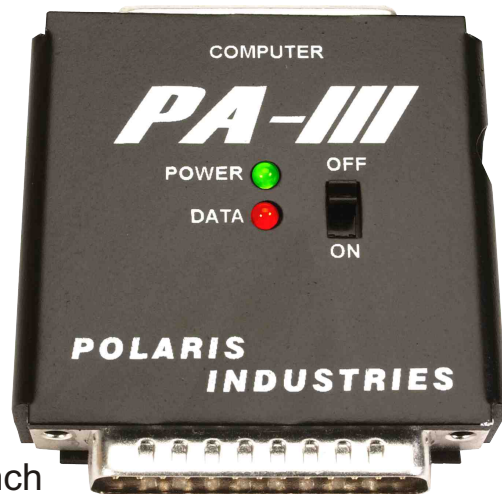


Items Included cont.

PA-3 Programming Adaptor

Visible Features:

- Micro-Size
- Rugged Steel Case
- Power On LED
- Data Flow LED
- Battery Charging LED
- Power On/Off Switch
- Connector For Power Adaptor
- DB 25 Connectors for Computer and Radio
- Dimension: 2.18(W) x 2.37(H) x .62(D) inch
- Weight: 2.8 ounces



Radio Programming Cables

Polaris Industries currently manufactures **26** Radio Programming Cables. Locate your cable in “Connecting the Radio Cables” section for hook-up instructions. If you can not locate a programming cable for your specific radio, contact Polaris Industries for the most up-to-date radio programming cable listing.

Serial Cable

This 6 foot 25 Pin (male) to 25 Pin (female) serial cable allows the Programming Adaptors to be extended further from the computer.



Serial Adaptor

Some computers such as laptops and portables use a DB-9 connector for their serial port. Polaris Industries provides a 9 Pin to 25 Pin serial adaptor which converts the 9 Pin connector (male) to a 25 Pin (female). The Programming Adaptor or the provided serial cable (mentioned above) then plugs into this adaptor.



Item Included continued...

Power Adaptor for the PA-1, PA-2 Adaptors, Model #1, #12 and #12A Cables

- I 120V AC input / 60 Hz
- I 12V DC output / 100mA
- I 2.1mm Mini Plug

NOTE: Polarity for the PA-I and PA-II is Center Negative.



Power Adaptor for PA-3 Adaptor

- I 120V AC input / 60 Hz
- I 12V DC output / 100mA
- I 1.3mm Mini Plug

NOTE: Polarity for the PA-III is Center Positive.



Power Consumption

Power is supplied to the PA-1 Programming Adaptor via the supplied power adaptor. For portability, the PA-2 and PA-3 Programming Adaptors are designed with an internal rechargeable Ni-Cad battery. This allows for in-the-field programming. Power consumption for the PA-2 or PA-3 can be provided by either the supplied wall adaptor or the internal Ni-Cad battery. You may also choose to purchase the PAC-I for mobile power connectivity. The PAC-I connects to a car cigarette adapter to allow you to power your PA-1, PA-2, or PA-3 on the go!



Charging the Ni-Cad Battery (PA-II & PA-III Only)

To charge the Ni-Cad battery follow these steps:

1. Plug the Power Adaptor into a standard wall outlet.
2. Plug the mini connector on the Power Adaptor into the PA-2 or PA-3.
3. For PA-3, turn the Power Switch to the OFF position.
4. For PA-2, the Power Switch can be in the ON or OFF position.

It is recommended that the PA-2 and PA-3 be charged for a minimum of 6 hours for optimum performances. The Ni-Cad battery can stay charged for 6-8 continuous hours for PA-III, 12 to 14 hours for PA-II.

CAUTION:

Please DO NOT leave your PA-2/PA-3 connected to the charger/wall adaptor over 48 hours. Ni-Cad batteries can be damaged by overcharging. This type of damage is not covered by warranty.



System Requirements

- 286 or higher computer
- Standard EIA RS-232 Serial Port (COM1, COM2)
- DOS Software
- Radio Programming Software
(Supplied through Motorola National Parts in Schaumburg, IL)
- A Radio Programming Cable (from Programming Adaptor to radio)
(Supplied through Polaris Industries)
- Your Motorola Radio you wish to program
- Power Supplies / Wall Adaptors

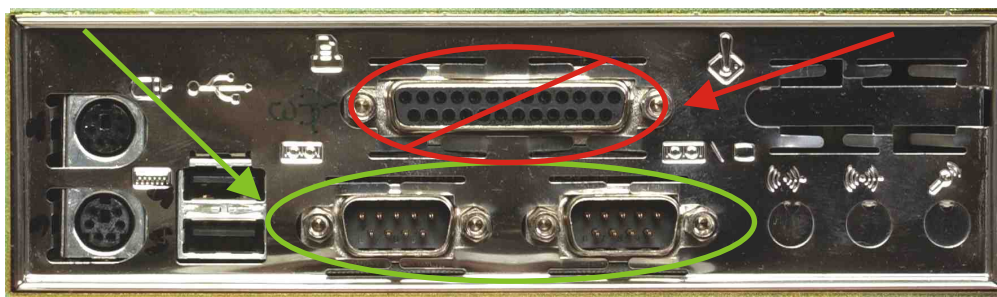
Connection to the Computer

The Programming Adaptors are designed to plug into the serial port of an IBM PC or IBM compatible computer. Some computers such as laptops and portables use a DB-9 connector for their serial port. Most desktop or tower-cases use a DB-25 connector for their serial ports. We provide the ability to use both via the supplied adaptor. The Programming Adaptors will plug directly into this connector, or the provided extender cable may be used to allow the Programming Adaptor to be extended further from the computer. Be sure to check all connections for a firm fit.

IMPORTANT NOTE: The serial port is similar to the parallel printer port. However, the printer port has a female connector and serial port has a male connector. For connection to an x86 version computer, an adaptor cable has been included along with your *Program Adaptor* to convert the typical 9 pin DB connector to a 25 pin connector. **DO NOT connect the cable to your LPT / Printer port as this WILL cause damage to the computer system!**

Serial Ports

Printer Port



Connection to the Radio

Attaching the Programming Adaptors to the radio is accomplished by plugging the cable associated with the radio type into the Programming Adaptor and the respective radio. Connection to the PA-1 is completed by plugging the power adaptor in a wall outlet and the mini plug into the power connector of the PA-1. The PA-2 and PA-3 can be operated from the charged Ni-Cad battery or the external power adaptor. Be sure to check all connections for a firm fit.

Example of Connection

The following diagram clarifies the utilization of the Programming Adaptors. Note: the serial interface cable is connected between the computer and the Programming Adaptor. The Radio Interface Cable is connected between the Programming Adaptor and the radio.



! **DO NOT** use your computer's *printer* port for connecting the serial cable. **!**
The printer port is a Female BD 25 connector. Connect the serial cable to your computer's *comm* port, which is a male DB 25 connector.

Connection to the Radio continued...

EXTREME CAUTION!

Never disconnect any hardware device while programming or reading information from the radio. In some cases, this interruption of data flow will damage the radio. This type of damage to the radio cannot be fixed by standard programming techniques. It will require returning the radio, *AT OWNER'S EXPENSE*, to Motorola for repair.

Operating and Programming the Radio

The following section contains hook-up illustrations for connecting the interface cable to the Motorola radio. Polaris Industries supplies only the adaptors and interface cable hardware for programming Motorola radios.

After all connections have been made, the operation of the device itself is inherent to the user. At this point, run the Motorola software for the particular radio you wish to read or program. The software generates a serial data stream directed to the radio and receives a serial data stream from the radio. The Programming Adaptors convert the standard signal protocol from the computer into the special particular protocol of the radio. Serial data streams are thereby exchanged between the computer program and the radio. No further adjustments to the Programming Adaptors are necessary.

Disconnection

The various cables associated with the Programming Adaptors may be disconnected in any order regarding the Programming Adaptors. Your particular radio, however, may require you to turn it off or perform some other action prior to disconnecting it. Consult your portable radio manual if you are unsure.

MODEL #1 Interface Cable - Motorola HT50 & P100 Radios

Step 1

First, locate the Motorola Radio.



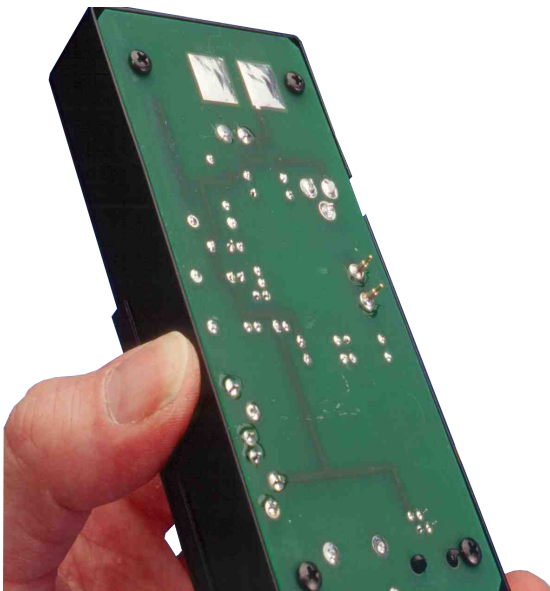
Step 2

Remove the battery from the Motorola radio by sliding the bottom of the battery pack outward, thus unlatching the top portion of the battery pack.



Step 3

Bent Programming Pin Do not force the Model #1 casing onto the Motorola radio, as this may break the Programming Pin. Damaged and Bent Programming Pins as well as Printed Circuit Boards are warranted for 2 Days ONLY - No Exceptions.



Step 4

Hook the metal tabs on the Model #1 casing into the top portion of the radio. Then, snap the casing onto the bottom of the Motorola radio.



MODEL #1 Interface Cable - Motorola HT50 & P100 Radios

Step 5

On the front of the Model #1 casing, locate the Lid for the 9V battery. Loosen the thumb screw and remove the metal tab. Insert a 9-volt battery. Replace the battery cover.



Step 6

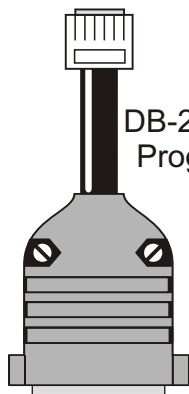
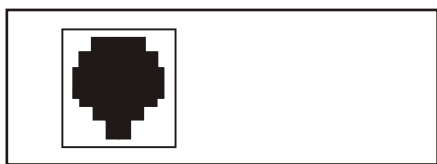
Plug the male power adaptor jack into the female receptacle on the side of the Model #1 casing. Then, plug the power adaptor into a wall outlet.



Step 7

Plug the male end of the 6-pin modular RJ-11 cable into the female phone jack on the bottom of the Model #1 casing.

Base Side
Cable Connection



DB-25 Cable (female) to Programming Adaptor.

Step 8

Finally, plug the Female DB 25 connector of the modular phone cord into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #2 Interface Cable - Motorola HT600, MT800, MT1000, P200, P500, MTX800, MTX810, MTX820 & MTX900 Radios.

Step 1

First, locate the Motorola Radio.



Step 2

Locate the contacts on the radio. Now, align the contact pins on the Model #2 cable with the contact on the radio.



Step 3

Attach the Model #2 cable on the radio, noticing the thumb screw on the Model #2 cable.



Step 4

Tighten the thumb screw to hold the Model #2 cable on the radio.



MODEL #2 Interface Cable - Motorola HT600, MT800, MT1000, P200, P500, MTX800, MTX810, MTX820 & MTX900 Radios.

Step 5

NOTICE: Do not over tighten the thumb screw. It should be tightened just enough to hold the cable on the radio.



Step 6

Finally, plug the Female DB 25 connector of the Model #2 cord into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #3 Interface Cable - Motorola MAXTRAC (50, 100, 300, 820, 840, M860) MARATRAC, RADIUS (M100, M206, M208, M214, M400 & GM300) Radios

Step 1

First, locate the Motorola Radio. Make sure the power switch is turned to off.



Step 2

Locate the Female 8 pin RJ-45 modular connector on the radio.



Step 3

Plug the Male 8 pin RJ-45 modular connector of the Model #3 programming cable into the Female connector of the radio.



Step 4

Finally, plug the Female DB25 connector of the Model #3 programming cable into the Male DB25 connector of the programming adaptor.



MODEL #3B Interface Cable - Motorola MCS-2000 Radio

Step 1

First, locate the Motorola Radio. Make sure the power switch is turned to off.

Step 2

Locate the Female 8 pin RJ-45 modular connector on the radio.



Step 3

Plug the Male 8 pin RJ-45 modular connector of the Model #3B programming cable into the Female connector of the radio.

Step 4

Finally, plug the Female DB25 connector of the Model #3B programming cable into the Male DB25 connector of the programming adaptor.



MODEL #4 Interface Cable - Motorola STX, STX Gemini, STX821 and Trunked Portable Radios.

Step 1

This is the Motorola Radio. Make sure the power switch is turned to off.



Step 2

Locate the contact pins on the side of the radio. Also notice the female screw receptacle near the contact pins. This is for the thumb screw on the Model #4 programming cable.



Step 3

Align the thumb screw and the contact pins on the Model #4 cable with the contact pins on the radio.



Step 4

Tighten the thumb screw into the radio. It should be tightened just enough to hold the cable on the radio.



Step 5 Finally, plug the Female DB 25 connector of the Model #4 cord into the male DB 25 connector on the Radio Programming Adaptor.

MODEL #5 Interface Cable - Motorola Saber Radio

Step 1

First, recognize the Motorola Radio. Make sure the power of the radio is turned off.



Step 2

Notice the contact pins located near the top of the radio.



Step 3

On the Model #5 Programming Cable, locate the thumb screw, metal arm brace, and the contact pins.



Step 4

Use the arm bar brace, of the Model #5 cable, to adjust the contact pins so that they align with the contacts of the radio.



MODEL #5 Interface Cable - Motorola Saber Radio

Step 5

Tighten the thumb screw of the Model #5 cable so that it holds the cable securely onto the radio.



Step 6

Do not over tighten the thumb screw. It should be tightened just enough to hold the cable on the radio.



Step 7

Finally, plug the Female DB 25 connector of the Model #5 cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #6A Interface Cable - Motorola Spectra (50 Watt) Radio.

Step 1

First, identify the proper Motorola radio and orient it so that you are looking at the rear.



Step 2

Locate the Female DB15 connector in the middle of the back panel.



Step 3

Plug the Male DB15 pin connector of the Model #6A programming cable into the Female DB15 connector located in step 2.



Step 4

Once the Model #6A programming cable is connected to Spectra radio, plug the Female DB25 connector of the Model #6A into the programming adaptor.



MODEL #6B Interface Cable - Motorola Spectra (100Watt) Radio.

Step 1

This is the front of the Motorola radio.



Step 2

Looking at the back of the Motorola (100 Watt) radio, locate the Female DB15 connector.



Step 3

Plug the Male DB15 pin connector of the Model #6B programming cable into the Female DB15 connector located in step 2.



Step 4

Once the Model #6B programming cable is connected to radio, plug the Female DB25 connector of the Model #6B into the programming adaptor.



MODEL #7 Interface Cable - Motorola SYNTOR 9000 & 9000E Radios.

Step 1

Locate the socket with the Male connectors on the back of the Motorola radio.

Step 2

Now locate the power cable for the Motorola radio that plugs into the socket found in step 1.



Step 3

Plug the Syntor's power cable connector into the Female socket of the Model #7 cable.



Step 4

Connect the Model #7 cable onto the Motorola radio by plugging the Female side into the socket on the radio.



MODEL #7 Interface Cable - Motorola SYNTOR 9000 & 9000E Radios.

Step 5

Insure that the Motorola radio's power cable is connected to the power source.



Step 6

Finally, plug the Female DB 25 connector of the Model #7 cable into the Male DB 25 connector on the Radio Programming Adaptor.



MODEL #9 Interface Cable - Motorola R100 Repeater.

Step 1

First, identify the proper radio. Pictured below is the Motorola R100 Repeater.



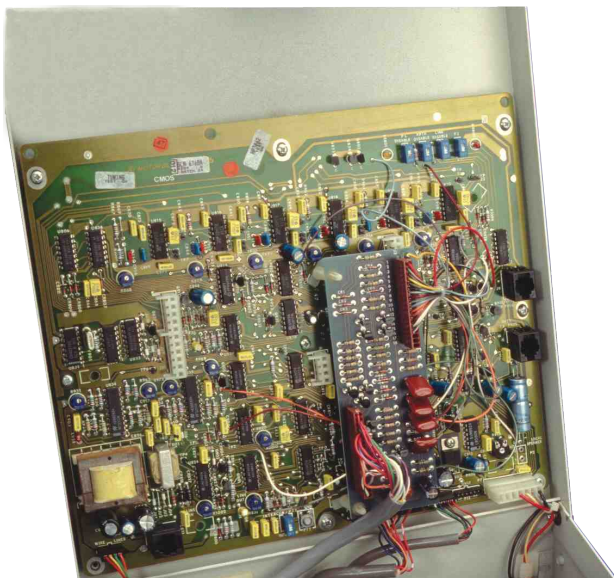
Step 2

Open the top lid and expose the inside circuitry of the radio.



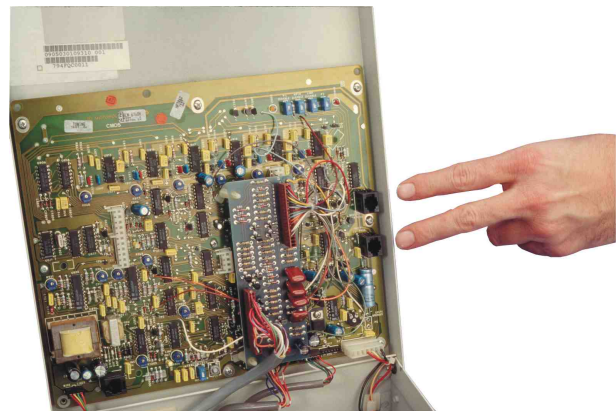
Step 3

Once the radio is exposed, focus on the circuitry of the lid.



Step 4

There are two Female 6-pin modular RJ-11 connectors located on the lid of the radio.



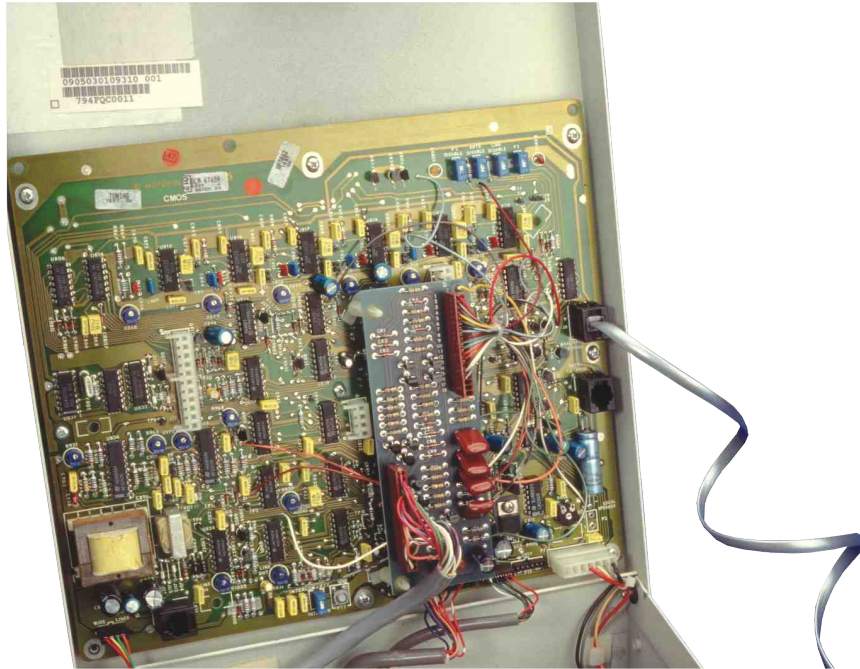
MODEL #9 Interface Cable - Motorola R100 Radio.

Step 5

Plug the Male RJ11 phone connector into the TOP Female phone jack of the R100 radio.

Step 6 IMPORTANT!

Finally, plug the Female DB 25 connector of the Model #9 cord DIRECTLY into the comm port of the computer.



MODEL #10 Interface Cable - Motorola MCX 1000 Radio

Step 1

Connect the Model #10 cable to the contact pins of the Motorola radio.

Step 2

Next, plug the Female DB 25 connector of the Model #10 cable into the Male DB 25 connector on the Radio Programming Adaptor.

MODEL #11 CLONING Cable - Motorola HT600, MT100 Radios.

Step 1

The Model #11 cable has dual ends of the Model #2 cable for cloning.



Step 2

Locate the contacts on the radio. Now, align the contact pins on the Model #11 cable with the contact on the radio.



Step 3

Use the same method as Step 2 in order to connect the opposite end of the cable to the slave radio for cloning.



MODEL #12A Interface Cable - Motorola GP350, GP300 and P110 Radios.

Step 1

First, locate the Motorola Radio.



Step 2

Remove the battery from the radio by sliding the bottom of the battery pack downward, thus unlatching the top portion of the battery pack.



Step 3

Notice that there are four metal tabs extending up from the back of the radio.



Step 4

Now, locate the Model #12A casing.



MODEL #12A Interface Cable - Motorola GP350, GP300 and P110 Radios.

Step 5 IMPORTANT!

The contact pin on the PCB of the Model #12A casing is very fragile. Do not force the casing onto the Motorola radio, as this will break the pin. This damage is not covered under warranty.



Step 6

Align the four slots on the under side of the Model #12A casing with the four metal tabs of the radio.



Step 7

Then, slide the casing gently upward until it is secure on the radio.



Step 8

Next, remove the metal tab on the front of the Model #12A casing and insert a 9 volt battery.



MODEL #12A Interface Cable - Motorola GP350, GP300 and P110 Radios.

Step 9

Replace the metal tab and tighten the thumb screw into the casing. Now, plug the male 6-pin RJ-11 modular connector into the female connector on the bottom of the casing.



Step 10

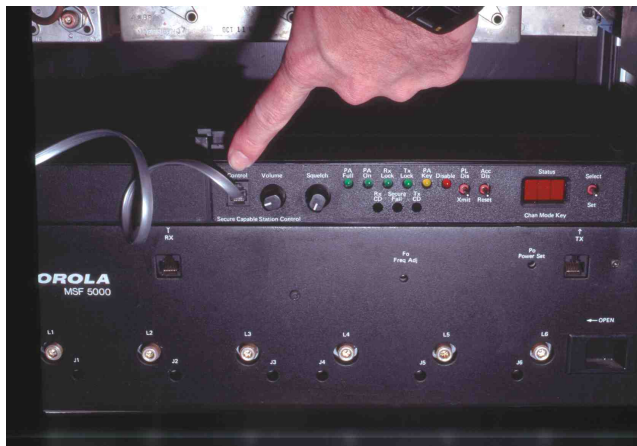
Finally, plug the Female DB 25 connector of the 6-pin RJ-11 modular cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #13 Interface Cable - Motorola MSF5000 Digital Radio

Step 1

Connect the Model #13 cable securely to the contact pins of the Motorola radio.



Step 2

Next, plug the Female DB 25 connector of the 6-pin RJ-11 modular cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #14 Interface Cable - Motorola HT1000, MT2000, MTX838
MTX8000, MTX9000 & JEDI Series Radios.

Step 1

First, identify the proper Motorola radio. Pictured below is the MT 2000 radio.



Step 2

On the side of the radio, there are 15 contact pins. These pins align with the contact pins of the Model #14 cable.



Step 3

Notice the push pin connectors on the PCB board of the Model #14 cable.



Step 4

Align the connector pins of the Model #14 cable with the contacts on the radio. Then, insert the pointed end of the connector on the radio.



MODEL #14 Interface Cable - Motorola HT1000, MT2000, MTX838, MTX8000, MTX9000 & JEDI Series Radios.

Step 5

Next, snap the Model #14 onto the top of the radio. Make sure the cable is secured on the radio.



Step 6

Finally, plug the Female DB 25 connector of the Model #14 cord into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #15 Interface Cable - Motorola VISAR Radio

Step 1

First, recognize the Motorola Radio. Make sure the power of the radio is turned off.



Step 2

Notice the contact pins located near the top of the radio.



Step 3

Align the Model #15 cable with the contact pins of the radio.



Step 4

Hook the bottom tab of the Model #15 cable into the radio.



MODEL #15 Interface Cable - Motorola VISAR Radio

Step 5

Pinching down on the top tab of the Model #15 cable, snap it onto the radio.



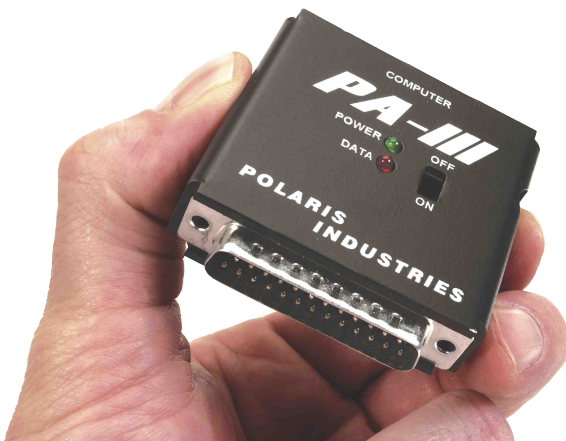
Step 6

Make sure the Model #15 cable is connected securely on the radio.



Step 7

Finally, plug the Female DB 25 connector of the Model #15 cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #16 CLONING Cable for the Motorola JEDI Series Radio

Step 1

The Model #16 cable is a cloning cable for the JEDI series. The cable is made up of two Model #14 cable connectors allowing for direct cloning of the JEDI radios.



Step 2

Follow the instructions for the Model #14 cable for connection to the master radio.



Step 3

Then, use the same method to connect the opposite end of the Model #16 cable to the slave radio for cloning.



MODEL #17 Interface Cable - Motorola ASTRO & SABER SI Radios

Step 1

The Model #17 cable connects to the Motorola radios in the same manner as the Model #5 cable.



Step 2

Use the arm bar brace, of the Model #17 cable, to adjust the contact pins so that they align with the contacts of the radio.



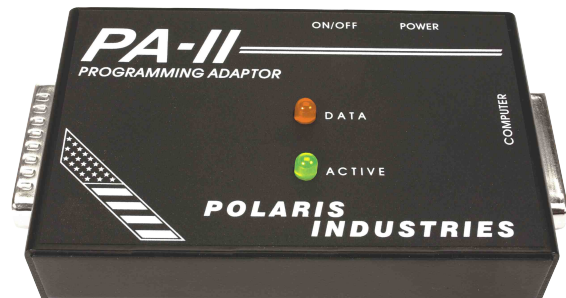
Step 3

Make sure the Model #17 cable is connected securely on the radio.



Step 4

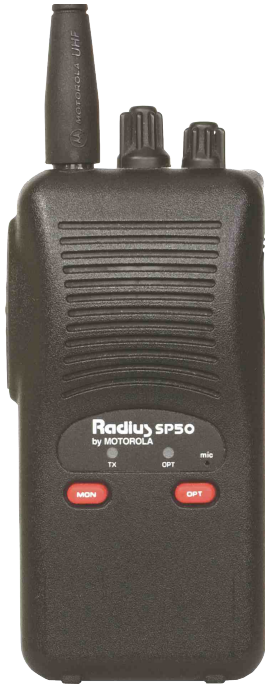
Finally, plug the Female DB 25 connector of the Model #17 cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #18 Interface Cable - Motorola SP50 Radio

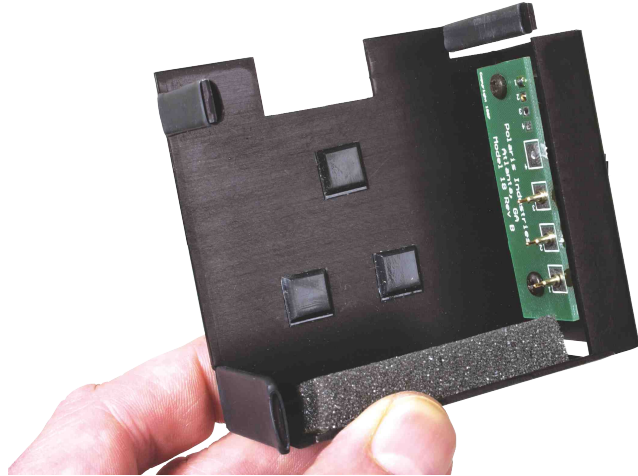
Step 1

First, on the Motorola Radio, locate the three contact pins near the bottom of the radio.



Step 2 **IMPORTANT!**

Next, notice the three connector push pins on the PCB of the Model #18 casing. These push pins are fragile. Do not force the radio into the casing. This may break the pins.



Step 3

Align the contacts of the radio with the contacts of the Model #18 casing.



Step 4

Gently slide the radio into the Model #18 casing.



MODEL #18 Interface Cable - Motorola SP50 Radio

Step 5

Ensure that the Motorola radio fits securely and makes contact with the connector pins of the Model #18 casing.



Step 6

Finally, plug the Female DB 25 connector of the Model #18 cord into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #19 Interface Cable - Motorola M1225 Radio.

Step 1

First, identify the Motorola radio. Pictured below is the M1225. Make sure the power is turned off.



Step 2

Locate the Female 8-pin RJ-45 modular connector on the radio.



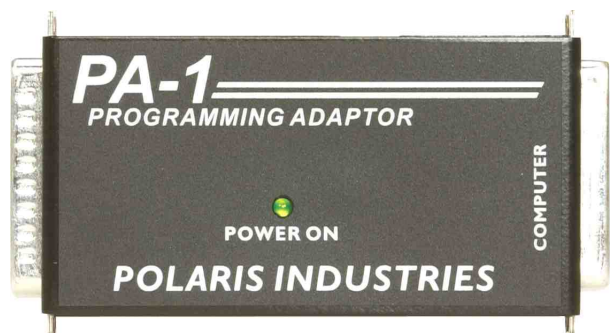
Step 3

Plug the Male 8-pin RJ-45 modular connector of the Model #19 programming cable into the Female connector of the radio.



Step 4

Finally, plug the Female DB25 connector of the Model #19 programming cable into the Male DB25 connector of the programming adaptor.



MODEL #20 Interface Cable - Motorola P1225 Radio.

Step 1

First, recognize the Motorola Radio. Make sure the power of the radio is turned off.



Step 2

Notice the contact pins located near the rear of the radio base.



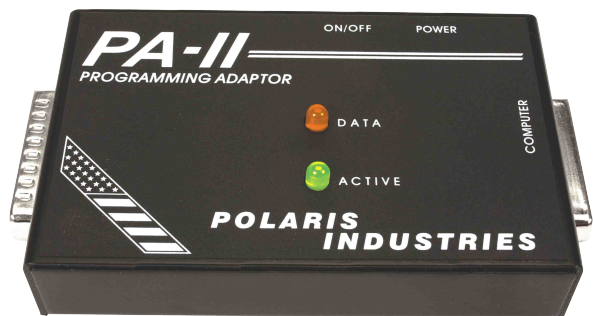
Step 3

Slide the P1225 Radio in the base station so that the contact pins on the base make contact with the radio.



Step 4

Finally, plug the Female DB 25 connector of the Model #20 cable into the male DB 25 connector on the Radio Programming Adaptor.



MODEL #21 Interface Cable - Motorola HT750 and HT1250 Radios.

Step 1

First, identify the proper radio. The radio displayed below is a Motorola HT750.



Step 2

On the side of the radio, there are 13 contact pins. These pins align with the contact pins of the Model #21 cable.



Step 3

Notice the push pin connectors on the PCB board of the Model #21 cable.



Step 4

Align the connector pins of the Model #21 cable with the contacts on the radio. Then, insert the thumb screw and gently tighten.



MODEL #22 Interface Cable - Motorola EX-500, EX-600 Radio**Step 1**

First, identify the Motorola radio. Pictured below is the EX-500 radio.

**Step 2**

Locate the contact pins on the EX-500/EX-600 radio. These are located on the side.

**Step 3**

Slide the Model #22 cable into the recessed slot located on the right side of the radio, then tighten the thumbscrew.

**Step 4**

Do not over-tighten the thumbscrew. It should be just tight enough to hold the Model #22 cable firmly in place.



MODEL #23 Interface Cable - CLONING cable for Motorola EX-500, EX-600 Radio

Step 1

First, identify the Motorola radio. Pictured below is the EX-500 radio.



Step 2

Locate the contact pins on the master EX-500/EX-600 radio. These are located on the right side.



Step 3

Slide the Model #22 cable into the recessed slot located on the right side of the radio, then tighten the thumbscrew.



Step 4

Follow Steps 1 - 3 for the slave radio to begin the cloning process.



MODEL #24 Interface Cable - Ribless Cable for MTR-2000

Step 1

Install one end of the Model #25 Cable to the 8-pin RJ-45 connector on the MTR-2000 radio.

Step 2

Install other end of MTR-2000 Cable to the DB-9 or DB-25 COMM Port on your PC.



MODEL #25 Interface Cable - Programming Cable for CDM750, CDM1250, CDM1550

Step 1

First, identify the proper radio. Pictured below is the CDM750. Notice the 8-pin RJ-45 connector in the bottom left of the unit.

Step 2

Insert one end of the Model #26 Cable into the 8-pin RJ-45 connector, and insert the other end into your Programming Adapter.



Troubleshooting and Helpful Hints

If you are having communication problems with your Programming Adaptor or Cables, here are some frequently hints used by customers that come in to our technical support department. Reviewing these hints may allow you to solve many problems yourself.

1. Make sure your radio is turned on.
2. If you are using a radio interface cable that requires a battery installed, make sure the battery is good.
3. Check your software to insure that it is set to the correct port (Com1, Com 2, etc.). This menu is found under PC setup. Make sure your Programming Adaptor is connected to the serial port that the software is set to.
 - a). Make sure your system is not running any background TSR or similar programs that work with the com ports (serial ports).
 - b). Are you sure this serial/Com port works? Has it been used to communicate to other devices such as a mouse, modem, etc..
4. Make sure you have a Programming Adaptor between the Radio Interface Cable and the computer! Do not plug the Radio Interface Cable directly into the computer without using a Programming Adaptor. Damage to your radio or computer could result.
5. Take special care in mating the P50+, P100, GP300, GP350, Visar, JEDI, and HT1000 cables to the radios. Be sure the pins mate up and make a good connection to the metal tabs on the radios.
6. The P100 radios are shipped with cellophane stickers covering the metal tabs on the back of the radios. These must be removed for a positive connection to the cable.
7. Make sure the Programming Adaptor is connected to the serial port and not the parallel port of the computer. Damage will result from this type of connection.
8. Make sure the power adaptor connected to the PA-1, PA-2, or PA-3 is fully charged.

If all else fails, eliminate the possibility of any computer error by attempting to program your radio on another computer system or try changing radios.

Technical Support Department

If you are still puzzled, Polaris Industries Technical Support Specialist are available from 10:00 AM to 4:00 PM, Monday through Friday, Eastern Standard Time. Make sure you have the symptoms of your Programming Adaptor ready and call:

Technical Support: (678) 405-6080

If the Technical Support Department determines there is a hardware issue, refer to the next section for how to return your Programming Adaptor.

Polaris, On-Line: www.polarisradio.com

Polaris Industries, Inc.'s Business Practices

Limited Warranty

Polaris Industries warrants all merchandise against defects in material or workmanship for the period of 90 days from purchase. Polaris Industries, Inc.'s warranty is limited to the replacement or repair of the defective item at no charge if we determine such item to be defective. Defective items must be shipped prepaid. The foregoing remedy is Buyer's only remedy for breach of this limited warranty. This warranty shall not apply to any item subject to misuse, **including STATIC DISCHARGE**, failure by Buyer to follow instructions, product modification, ordinary wear and tear, negligent, improper operation or which have been installed or soldered or altered during assembly or use and are not capable of being tested or resold. Modification, repair, or attempted repair by anyone other than Polaris Industries, Inc. Without the prior written permission of Polaris Industries will void this limited warranty. Warranty is voided on any product that is found to have an altered, tampered with, or removed serial number.

14 Day Return Policy

Merchandise may be returned within a **14 day period** from date of purchase for *exchange or credit* toward another purchase from Polaris Industries, Inc. Merchandise may be returned for a *full refund* within a **2 day** period from date of receipt, **if and only if the product is returned without having been opened**. Opened radio products may not be returned for a full refund, only for an exchange, **on the same item**. Merchandise must be in like new condition in the original carton with all original packaging, warranties, instructions and accessories, and must be accompanied by the original sales receipt. Return freight must be prepaid. No C.O.D. Returns can be accepted. Polaris Industries may refuse a refund or exchange or assess a charge for used or incomplete merchandise returned or exchanged. Items showing use or abuse will be returned. Returns or exchanges will not be made for items marked "As Is", "Clearance" Item, "Hardware Clearance" Item, or items marked with "Surplus Parts." Refunds will be made by the same method as used to purchase the item. A Polaris check will be issued instead of cash for refunds of \$100.00 and greater. Refund checks may take up to 14 working days to process.

Return Policy

Return Merchandise Authorization ("RMA") policies are subject to revisions to improve Customer Service. Contact the RMA dept. Regarding policies and returns. **All returned merchandise requires an RMA Number.** To obtain an RMA number, call Technical Support (10 AM-5 PM EST, Monday - Friday) at: 678-405-6080. **RMA's are NOT available through sales lines. Your RMA number MUST be clearly marked on the OUTSIDE of the returned package. Packages returned without this RMA number will be REFUSED.** All merchandise must be returned in the same condition as it was originally shipped from Polaris Industries, Inc.

IMPORTANT NOTE:

A request form will be faxed / e-mailed to you and upon signed / returned, an RMA will be issued if qualified. Once an RMA number has been assigned, it is important to return the product within two weeks (14 days), otherwise after that time the RMA number will be voided and the parcel will be refused at our shipping / receiving dock. You must call to obtain a new RMA number *if you are unable to make delivery to our address within two weeks.*

BENT PINS:

Certain Programming Cables come equipped with small data pins with which to make contact to the programming interface on the radio. These pins are **VERY FRAGILE** and damage caused to these pins by misuse **IS THE RESPONSIBILITY OF THE BUYER.** Always make sure to gently connect the radios to their respective cables, never forcing the radio into the housing. Customer has **2 (TWO) DAYS FROM RECEIPT OF PACKAGE** to contact Polaris Industries, Inc. if cable is received with bent pins. After **2 DAYS** it is the sole responsibility of the owner to contact Polaris Industries, Inc. for repair.

Restock Charge

If parts are to be returned to Polaris Industries due to Buyer error, Buyer may be subjected to 15-25% restock fee. If parts are to be returned to Polaris Industries and merchandise found to be damaged or returned in non-resellable condition, Buyer may be subjected to a 15-100% restock fee, including failure to return Accessories, items, and owner's manuals. **NO EXCEPTIONS**, this includes duplicate shipments, refused / unclaimed shipments, items ordered by mistake, not shipped, not fitting application, or unsuitability for particular application or design.

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Prices are subject to change at any time, with or without notification to customer.

Polaris Industries, Inc.
470 Armour Dr. NE Atlanta, GA 30324
Fax: 404.872.1038

Radio Programming Cables
Technical Information
404.872.0722

www.polarisradio.com

Cables Price The Motorola® Radio Each Cable Programs...

Model 1	\$ 65.95	HT50 and the Radius P100 Models
Model 2	\$ 69.95	HT600/600, MT800, MT1000, P200, P210, P500, MTX800/MTX810/MTX820/888/MTX900
Model 3A	\$ 59.95	MARATRAC, SM10/SM50/SM120, GM300, GTX MOBILE, SPORTBASE, DESKTRAC
Model 3B	\$ 49.95	RADIUS - M100/M120/M130/M206/M208/M214/M216/M400/M860, MAXTRAC - 50/100/300/820/840
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Model 21	\$ 99.95	P1225
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Model 24	\$ 49.95	Cloning Cable for EX-500, EX-600
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