Multi-Band Vertical Remote Antenna Tuner Add-on Kit
for 43 Foot Multi-band Vertical Antennas
80-10 Meters

DXE-MBV-ATU-1
DXE-MBV-ATU-1-INS Revision 3c

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Introduction
The DXE-MBV-ATU-1 Multi-Band Vertical Remote Antenna Tuner Add-on Kit for 43 Foot Multi-band Vertical Antennas is a remotely mounted automatic tuner system which also features proper feedline isolation for a 43 foot vertical antenna. The DXE-MBV-ATU-1 is the perfect solution for the DX’er running modest power (200 watts maximum) who wants maximum performance on any 43 foot tall multi-band vertical antenna! Now you can hear and work the weak ones! Just install on your vertical antenna mount and start operating. NO MANUAL TUNING!

Now you can have full performance 80-10 meters with no mismatch coaxial cable loss! A no compromise system! A Bias Tee is included with this special package for supplying the 12 Vdc power through the coaxial cable from your radio shack to the remote tuner.

This automatic antenna tuning system, mounted at the base of a ground mounted vertical antenna works on all DX Engineering, Zero-Five, MFJ and Hy-Gain 43 foot vertical antennas. Also works on your own vertical antenna homebrew creation!

Features:
- MFJ-927 Remote IntelliTuner™ - 200 Watts maximum
- DXE-FCC050-H05-A Feedline Current Choke: isolates the feedline from the antenna
- DXE-SSVC-2P Stainless Steel Mounting V-Clamp
- Custom Laser Cut Stainless Steel Bracket for Tuner and Feedline Current Choke
- MFJ 4117 Bias Tee Power Injector for 12 Vdc: power supplied on coaxial cable, no control cable needed
- RG-8X Coaxial Cable 2 ft long with PL-259 Connectors
- 3 Tinned Copper Braids, 1” wide for connection to your optional Radial Plate
- Feedline wire - 14 ga insulated stranded copper with Ring Terminal attached.

Supplied Items:
Mounting Base - Precision laser cut from 1/8" 304 Stainless Steel, this mounting plate is virtually indestructible. Mounts to the same mast used for the optional DXE-RADP-3 Radial Plate.
DXE-FCC050-H05-A - Feedline Current Choke, 2 kW, for Coaxially Fed 50 Ω Antennas with Stainless Steel hardware to provide isolation between the feedline and the antenna.
DXE-SSVC-2P - Stainless Steel V-Clamp for 2" OD steel mounting pipe, V-bolt with Stainless Steel hardware. The standard 1-1/2” galvanized water pipe (with its 1.9” OD) is just fine for this application and can usually be found at your local home building supply store.
DXE-8XDU002 - RG-8X Coaxial Cable 2 ft long with PL-259 Connectors
Auto Tuner Radial Connection Kit - Three 1” wide x 6” long pre-drilled tinned copper braids for connection to the vertical antenna radial system through the optional DXE-RADP-3 Radial Plate. Includes the stainless steel hardware for attachment to the mounting base.
MFJ-927 Remote IntelliTuner™ will tune 80 through 10 meters, 200 Watts maximum
MFJ-4117 Bias-Tee Power Injector for 12 Vdc with DC switch.
Manual Updates
Every effort is made to supply the latest manual revision with each product. Occasionally a manual will be updated between the time your DX Engineering product is shipped and when you receive it. Please check the DX Engineering web site (www.dxengineering.com) for the latest revision manual.

Parts List

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<th>Where Used</th>
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<td>Stainless Steel Laser Cut Mounting Bracket</td>
<td>Shelf for tuner and FCC</td>
</tr>
<tr>
<td>1</td>
<td>DXE-FCC050-H05-A Feedline Current Choke</td>
<td>Installed on Mounting Bracket</td>
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<tr>
<td>1</td>
<td>DXE-8XDU002 Two Foot Coaxial Cable</td>
<td>From MFJ Tuner to DXE-FCC050-H05</td>
</tr>
<tr>
<td>1</td>
<td>MFJ-927 Remote IntelliTuner™</td>
<td>Installed on Mounting Bracket</td>
</tr>
<tr>
<td>1</td>
<td>MFJ-4117 Bias-Tee (included with MFJ-927)</td>
<td>Installed in customer radio room for routing power to the MFJ-927 Remote IntelliTuner™</td>
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<tr>
<td>1</td>
<td>DXE-SSVC-2P Stainless Steel V-Clamp</td>
<td>Mounting Bracket to customer supplied mounting pipe</td>
</tr>
<tr>
<td>3</td>
<td>6&quot; Braided Strap</td>
<td>2 - from bracket to optional DXE-RADP-3 Radial Plate</td>
</tr>
<tr>
<td></td>
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<td>1 - from Tuner Ground Lug to Mounting Bracket</td>
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<td>1</td>
<td>18&quot; Feedline Wire with Ring Terminal attached</td>
<td>From Tuner to customer's Antenna Feedline Connection</td>
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<tr>
<td>2</td>
<td>1/4&quot; x 1&quot; Stainless Steel Hex Head Bolt</td>
<td>Mounting Braided Straps to Mounting Bracket</td>
</tr>
<tr>
<td>2</td>
<td>1/4&quot; Stainless Steel Hex Nut</td>
<td>Mounting Braided Straps to Mounting Bracket</td>
</tr>
<tr>
<td>2</td>
<td>1/4&quot; Stainless Steel Split Washers</td>
<td>Mounting Braided Straps to Mounting Bracket</td>
</tr>
<tr>
<td>2</td>
<td>1/4&quot; Stainless Steel Flat Washers</td>
<td>Mounting Braided Straps to Mounting Bracket</td>
</tr>
<tr>
<td>3</td>
<td>1/4&quot; Stainless Steel Star Washer</td>
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</tr>
<tr>
<td>1</td>
<td>#10 Stainless Steel Tooth Lock Washer</td>
<td>For Braided Strap at MFJ-927 Tuner Ground connection</td>
</tr>
<tr>
<td>8</td>
<td>6-32 x 3/8&quot; Stainless Steel Hex Head Bolt</td>
<td>Mounting MFJ Tuner and DXE FCC to Mounting Bracket</td>
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<tr>
<td>4</td>
<td>#6 Stainless Steel Tooth Lock Washers</td>
<td>For Mounting FCC to Mounting Bracket</td>
</tr>
<tr>
<td>4</td>
<td>#6 Stainless Steel Flat Washer</td>
<td>For mounting FCC to Mounting Bracket</td>
</tr>
</tbody>
</table>

Figure 1
DXE-MBV-ATU-1 Multi-Band Vertical Remote Antenna Tuner Add-on Kit parts shown separately and installed with optional DXE-RADP-3, DX Engineering Multi-band 43 foot Vertical Antenna with DX Engineering Tilt Base on a customer supplied Mounting Pipe with customer supplied coaxial cable connected to antenna system.
Suggested Parts Not Included

DXE-RADP-3 Radial Plate:
Made from Laser Cut Stainless Steel with 20 Sets of Stainless Steel Radial Attachment Hardware. The DX Engineering Radial Plate (patented) is meant for those of you having a vertical antenna and want an easy, neat and effective way to connect those essential radial wires to your antenna system for the highest efficiency and strongest signals.

DXE-SSVC-2P Stainless Steel V-Clamp for steel pipe:
One required for mounting the optional DXE-RADP-3 Radial Plate to the antenna mounting pipe of 1” to 2” outside diameter. This V-Clamp is made in one size that fits Steel tubing or pipe from 1 to 2” O.D. as used in antenna construction. The supplied V-bolt is long enough to attach tubing to thick plates and is made with anti-corrosive properties. The special Stainless Steel saddle has serrated teeth will clamp to the pipe securely by biting into the surface. For this reason, it is not recommended for softer aluminum tubing or pipe. Ideal for fastening a radial plate and antenna mounting to a steel pipe.
- Used to clamp 1 to 2” (OD) steel tubing or pipe
- Designed for attachments that don't require resistance to torque
- V-bolt and saddle made from high-strength 18-8* stainless steel

The use of an anti-seize compound is HIGHLY recommended to achieve proper torque and prevent galling.

UMI-81343 - Anti-Seize, 1 oz. Squeeze Tube
Protects metal parts against rust, corrosion, and seizure Particularly effective on stainless steel bolts and nuts which have a high likelihood of seizure.
*This part is classified hazardous and is limited to domestic UPS Ground shipping only

DXE-PSW-12D1A - AC Adapter 12VDC/1000mA -
The DXE-PSW-12D1A is an AC Wall Transformer Adapter to furnish 12 Volts DC at 1000 mA from 110 Vac 60 Hz input, fused output. It features a standard 2.1 mm plug connection for 12 Vdc. Outer connection is GROUND Center Pin is input for +12 VDC.

Tools Required
1/4” Nut Driver or 1/4” socket with extension for mounting the MFJ Tuner and DXE-FCC050-H05 to the Mounting Bracket
5/16” and 3/8” Nut Drivers or open end wrenches to mount the DXE-FCC050-H05 to the Mounting Bracket
Two 7/16” Nut Drivers or open end wrenches to mount Ground Braids to the Mounting Bracket
1/2” deep well Nut Driver or open end wrench to attach DXE-SSVC-2P V-Bolt hardware
Assembly

Note: The assembly of the DXE-MBV-ATU-1 Multi-Band Vertical Remote Antenna Tuner Add-on Kit is described in this assembly manual with the use of the optional DX Engineering Tilt Base, DX Engineering Radial Plate, DX Engineering 43 foot vertical antenna and a 2” OD mounting pipe. Depending on your installation, slight variations in dimensions may be required.

Note: UMI-81343 Anti-Seize should be used on all clamps, bolts and stainless steel threaded hardware to prevent galling and to ensure proper tightening.

The stainless steel laser cut mounting bracket has eight PEM nuts installed for mounting both the DXE-FCC050-H05-A Feedline Current Choke and the MFJ-927 IntelliTuner™. There are also two holes for mounting the ground braid straps and two holes for the DXE-SSVC-2P V-Clamp.

Figure 2

Install the DXE-FCC050-H05-A Feedline Current Choke on the mounting bracket using the four #6 Hex Head Bolts, four #6 flat washers and four #6 tooth lock washers as shown in Figure 3.
On the MFJ-927 IntelliTuner™, remove the wing nut, two flat washers and split washer from the GROUND connection as shown in Figure 4.

![Figure 4](image)

Install one of the braided straps on the MFJ-927 IntelliTuner™ GROUND connection as shown in Figure 5 using the previously removed hardware plus the new #10 stainless steel tooth washer. Firmly hand tighten the wing nut (do not over tighten using pliers or other means).

![Figure 5 - Ground Braid Connection to Tuner GROUND](image)

Loosen the red connector on the MFJ-927 IntelliTuner™. Install the 14 gage feedline connection wire (bare wire end) on the , red ANTENNA WIRE connector. Firmly tighten the red connector.

![Figure 6 - Feedline Wire Connection](image)

*Note: Depending on your antenna installation, you may want to trim the length of this feedline wire once everything is installed.*
Place the MFJ-927 IntelliTuner™ on the mounting bracket. Install four #6 hex head bolts to hold the MFJ-927 IntelliTuner™ in place on the bracket as shown in Figure 7. The MFJ-927 Remote IntelliTuner™ is mounted to the bracket this way to make removal easy when making internal tuner adjustments if needed (refer to the MFJ-927 Remote IntelliTuner™ manual for details). Variations in the metal mounting bracket on the MFJ-927 may make it appear that the bolt holes do not align properly with the DX Engineering mounting bracket. The easiest way to mount the MFJ-927 is to install the two hex head bolts closest to the DXE-FCC050-H05-A Feedline Current Choke first. Then install the two outboard hex head bolts - you may have to push or pull on the MFJ bracket to get the holes to align properly.

Figure 7
Install the two Ground Braids on the mounting bracket using two 1" hex head bolts, flat washers, star washers and hex head nuts as shown in Figure 5. Note the Ground Braid from the MFJ-927 remote IntelliTuner™ is installed on one of the bolts as shown.

The DXE-8XDU002 coaxial cable jumper is connected from the DXE-FCC050-H05-A Feedline Current Choke SO-239 connector to the MFJ Tuner "Transmit" SO-239 connector as shown in Figure 9.

(Shown from bottom and without weatherproofing of the PL-259 connectors for clarity)
Mounting to Vertical Antenna System

The DXE-MBV-ATU-1 Multi-Band Vertical Remote Antenna Tuner Add-on Kit requires the distance between the bottom of the DXE-TB-3P Tilt Base (included with the DX Engineering 43 foot vertical antennas) and the top surface of the DXE-RADP-3 Radial plate be set at 6-1/2" as shown in Figure 10.

Figure 10

The orientation or placement of the Tilt Base and Radial Plate on your antenna system may vary depending on your installation. The distance between the Tilt Base and Radial plate listed allows room for the remote antenna tuner and allows easy tilting of the antenna. You may require a modification to the set up depending on your installation. The distance required is to allow room for the tuner and to allow proper operation of the Tilt Base.
Using the included **DXE-SSVC-2P** - Stainless Steel V-Clamp, mount the assembly to the antenna mounting pipe just above the Radial Plate. The standard 1-1/2" galvanized water pipe (with its 1.9" OD) is just fine for this application and can usually be found at your local home building supply store. Allow approximately 1/8" to 1/4" gap between Radial Plate Mounting Tab and the Mounting Bracket as shown in Figure 11.

![DXE-SSVC-2P V-Clamp installation on the mounting bracket](image)

**Figure 11 - Assembly mounted to 2" OD mounting mast**
Attach the two ground braids to the DXE-RADP-3 Radial Plate using hardware supplied with the Radial Plate as shown in Figure 12.

![Figure 12 - Ground Braids connected to the optional DX Engineering Radial Plate](image)

Once the remote tuner is installed, you'll want to cut the antenna feed wire to the minimum length required to go between the red binding post on the tuner and the vertical antenna feedpoint connection which will also allow tilting without straining the wire. Strip approximately 3/4" of insulation from the bare end of the antenna feedline wire. The stripped end is attached to the MFJ tuner using the red binding post as shown in Figure 13. The ring terminal end connects to your vertical antenna feedpoint connection as shown in Figure 14.

![Figure 13](image)

![Figure 14](image)
Connect the customer supplied coaxial cable from the transceiver to the **DXE-FCC050-H05** Feedline Current Choke as shown in **Figure 10**. *Do not* ground the transceiver coaxial cable to the radial system. Weatherproofing of all coaxial cable PL-259 connections is recommended.

![Coaxial Cable Connection](image)

**Figure 15 - Coaxial Cable Connection**

**Bias Tee and Operation**

The MFJ-4117 Bias Tee (included with the MFJ-927 Tuner) is usually located inside the radio room and requires a +12 Vdc power source such as the **DXE-PSW-12D1A** AC adapter 12VDC/1000ma. Follow the instructions provided by MFJ for both the Tuner and the Bias Tee. Once the power is applied to the tuner via the Bias Tee, your vertical antenna system is ready to operate on 80-10 meters.

**NOTE:**

Review the MFJ-927 Remote IntelliTuner™ manual for a detailed explanation of the MFJ-927 Remote IntelliTuner™ and the MFJ-4117 Bias Tee operation.
Optional Accessory Items

DXE-RADP-3 - Radial Plate, Stainless Steel with 20 Sets of SS Radial Attachment Hardware
The DX Engineering Radial Plate is meant for those of you that have or are building a quarter wave vertical antenna and who want an easy, neat and effective way to connect those essential radial wires and the coax to your vertical antenna for the lowest takeoff angle and strongest signals. The patented DX Engineering Radial Plate is laser cut from tough stainless steel so that it has smooth edges, won’t corrode and will always look good. You will be proud of how good your installation looks. This plate will work perfectly with most commercially available vertical antennas such as the Hutsler® BTV series (4-BTV thru the 6-BTV), the SteppIR™ (BiggIR or SmallIR) or one of your own construction.

DXE-SSVC-2P Stainless Steel V-Clamp for steel pipe:
One required for mounting the optional DXE-RADP-3 Radial Plate to the antenna mounting pipe of 1” to 2” outside diameter. This V-Clamp is made in one size that fits Steel tubing or pipe from 1 to 2 OD as used in antenna construction. The supplied V-bolt is long enough to attach tubing to thick plates and is made with anti-corrosive properties. The special Stainless Steel saddle has serrated teeth will clamp to the pipe securely by biting into the surface. For this reason, it is not recommended for softer aluminum tubing or pipe. Ideal for fastening a radial plate and antenna mounting to a steel pipe.
- Used to clamp 1 to 2” (OD) steel tubing or pipe
- Designed for attachments that don’t require resistance to torque
- V-bolt and saddle made from high-strength 18-8* stainless steel
The use of an anti-seize compound is HIGHLY recommended to achieve proper torque and prevent galling.

DXE-PSW-12D1A - AC Adapter 12VDC/1000mA
The DXE-PSW-12D1A is an AC Wall Transformer Adapter to furnish 12 Volts DC at 1000 mA from 110 Vac 60 Hz input, fused output. It features a standard 2.1 mm plug connection for 12 Vdc. Outer connection is GROUND Center Pin is input for +12 VDC.

UMI-81343, DXE-NSBT8 - Anti-Seize & Never-Seez®
An Anti-seize compound MUST be used on any Stainless Steel nuts, bolts, clamps or other hardware to prevent galling and thread seizure. Any of these products can be used for this purpose.

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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<tbody>
<tr>
<td>*UMI-81343</td>
<td>Anti-Seize, 1 oz. Squeeze Tube</td>
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<tr>
<td>*UMI-81464</td>
<td>Anti-Seize, 8.5 oz. Aerosol Can</td>
</tr>
<tr>
<td>*DXE-NSBT8</td>
<td>Never-Seez®, 8 oz. Brush Top</td>
</tr>
<tr>
<td>*DXE-NMBT8</td>
<td>Never-Seez®, 8 oz. Brush Top, Marine Grade</td>
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</tbody>
</table>

* These products are limited to domestic UPS Ground shipping only

DXE-RADW - 500K or 1000K Radial Wire Kits and Components
To achieve optimal performance with a ground-mounted vertical, install as many radials as possible. These bulk radial wire kits use insulated wire that is UV resistant, hard to see and lays down easily, unlike the wire that is commonly available at the big box stores. It will last much longer in contact with soil than bare wire.
The DXE-RADW- 500K or 1000K kit provide everything you will need to build the perfect radial system!
- 500/1000 ft. spool of 14 AWG, stranded copper wire with vinyl insulation
- 20/40 lugs
- 100/200 radial wire anchor pins- Eliminating the need to bury your radials!
- Build up to 20/40 radials, 25 feet long

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<tr>
<td>DXE-RADW-500K</td>
<td>Bulk Radial Wire Kit, 500 ft Spool of Wire, 20 Lugs, 100 Staples</td>
</tr>
<tr>
<td>DXE-RADW-1000K</td>
<td>Bulk Radial Wire Kit, 1000 ft Spool of Wire, 40 Lugs, 200 Staples</td>
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</tbody>
</table>
**DXE-RADW-500KBD or 1000KBD - Bulk Radial Wire Kits and Components**

To achieve optimal performance with a ground-mounted vertical, install as many radials as possible. These bulk radial wire kits use insulated wire that is UV resistant, hard to see and lays down easily, unlike the wire that is commonly available at the big box stores. It will last much longer in contact with soil than bare wire. The biodegradable anchors allow easy installation of radial wires, and will degrade and disappear in a year or so when they are no longer needed. The DXE-RADW-500 or 1000KBD kits provide everything you will need to build the perfect radial system!

- 500/1000 ft. spool of 14 AWG, stranded copper wire with vinyl insulation
- 20/40 lugs
- 100/200 biodegradable radial wire anchor pins - Eliminating the need to bury your radials!
- Build up to 20/40 radials, 25 feet long

<table>
<thead>
<tr>
<th>DXE-RADW-500KBD</th>
<th>Bulk Radial Wire Kit, 500 ft Spool of Wire, 20 Lugs, 100 Biodegradable Staples</th>
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<tr>
<td>DXE-RADW-1000KBD</td>
<td>Bulk Radial Wire Kit, 1000 ft Spool of Wire, 40 Lugs, 200 Biodegradable Staples</td>
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</table>

**DXE-STPL - Radial Wire Anchor Pins, 100/pack - No need to bury your radials!**

DX Engineering Radial Wire Anchor Pins are perfect for fastening radials below the grass line to eliminate the risk of damaging your radials during lawn maintenance.

- 100 count - 6” Pins
- 11-Gauge

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<th>DXE-STPL-100P</th>
<th>Radial Wire Anchor Pins, 100/pack</th>
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<tr>
<td>DXE-STPL-300P</td>
<td>Radial Wire Anchor Pins, 300/pack</td>
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**DXE-STPL-100BD - Radial Wire Staple, Biodegradable, 3”, 100 pack**

DX Engineering DXE-STPL-100BD is a 100-pack of 3” biodegradable anchors that are produced from recycled PLA (Polylactide Resin). Depending on the weather conditions, they will degrade in about a year. They are easily installed and will hold radial wires in place until lawn roots overtake them - and then disappear. Ecologically friendly!

- 100 count - 6” Pins
- 11-Gauge

**DXE-RADW-20RT/-32RT/-65RT Pre-Assembled, Radial Wire, w/ 1/4” ring Terminals, 20 Pack**

The DXE-RADW Radial Wire Kits include the highest quality 14 gauge stranded copper wire with a relaxed black PVC insulation for easy installation of your radial system. They allow fast and easy installation of your radial ground system, and permit you to mix and match different length to fit the available space. The stranded wire and relaxed insulation mean that the wire will lay flat as you place it on the ground - easy to install! The twenty pre-cut radial wires include 1/4” ring terminals professionally crimped on one end for quick and easy attachment to the radial plate. These Radial Wire Kits are designed for users of vertical antenna systems which have the need for a high quality radial system for optimum antenna performance. The 1/4” ring terminals are machine crimped for maximum grip. Soldering is not required for strength, but is recommended if installed in corrosive environments such as salt spray.

- Packed 20 Radial Wires per package
- 14 gage, stranded copper wire
- Black relaxed PVC insulation
- 1/4” Ring Terminal professionally crimped on each Radial Wire
- 3 lengths to choose from: 20 Ft (-20RT), 32 Ft (-32RT), 65 Ft (-65RT)

<table>
<thead>
<tr>
<th>DXE-RADW-20RT</th>
<th>Package of 20 each 20 Ft Radials with 1/4” Ring Terminals</th>
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</thead>
<tbody>
<tr>
<td>DXE-RADW-32RT</td>
<td>Package of 20 each 32 Ft Radials with 1/4” Ring Terminals</td>
</tr>
<tr>
<td>DXE-RADW-65RT</td>
<td>Package of 20 each 65 Ft Radials with 1/4” Ring Terminals</td>
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</table>
**DXE-225RT-20 - Ring terminal 16-14 Wire Gauge, 1/4" hole/20-pk**
This is a set of 20 ring terminals for AWG #14 to 16 wire with a clearance hole for a 1/4" bolt. These are the same crimp terminals supplied with the DXE Radial Wire Kits for #14 Radial and Antenna Wire.

**DXE-RADP-1HWK - Radial Plate Wire Attachment Hardware Kit - Stainless Steel**
20 Sets of ALL Stainless Steel Radial Hardware for use with the DX Engineering Stainless Steel Radial Plate.
- (20) 1/4" Bolts
- (20) 1/4" Nuts
- (20) 1/4" Flat Washers
- (20) 1/4" Split Washers
- (20) 1/4" Star Washers

**SUM-900031 - Automatic Wire Stripper/Crimper/Cutter, 24-10 Ga.**
Our wire stripper uses a spring-loaded design to make quick work of wires ranging from 24 to 10 gauge. Just insert the wire, squeeze the handle, and listen for the click. That’s the sound of another perfect wire stripping job performed in about 2 seconds— a fraction of the time it takes your pocket knife to do the same job. An adjustable wire length guide helps you make uniform strips, and a built-in wire cutter and crimper helps you complete your wiring job.
- Spring-loaded design
- Strips wires ranging from 24 to 10 gauge
- Built-in wire cutter and crimper

**DXE-3M2155 - 3M Temflex™ 2155 Rubber Splicing Tape.**
Conformable self-fusing rubber electrical insulating tape. It is designed for low voltage electrical insulating and moisture sealing applications. For outdoor use, it should be protected from UV deterioration with an overwrap of TRM-06132.

**TRM-06132 - Scotch® Super 33+.**
Highly conformable super stretchy tape for all weather applications. This tape provides flexibility and easy handling for all around performance. It also combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing.
Technical Support

If you have questions about this product, or if you experience difficulties during the installation, contact DX Engineering at (330) 572-3200. You can also e-mail us at:

DXEngineering@DXEngineering.com

For best service, please take a few minutes to review this manual before you call.

Warranty

All products manufactured by DX Engineering are warranted to be free from defects in material and workmanship for a period of one (1) year from date of shipment. DX Engineering’s sole obligation under these warranties shall be to issue credit, repair or replace any item or part thereof which is proved to be other than as warranted; no allowance shall be made for any labor charges of Buyer for replacement of parts, adjustment or repairs, or any other work, unless such charges are authorized in advance by DX Engineering. If DX Engineering’s products are claimed to be defective in material or workmanship, DX Engineering shall, upon prompt notice thereof, issue shipping instructions for return to DX Engineering (transportation-charges prepaid by Buyer). Every such claim for breach of these warranties shall be deemed to be waived by Buyer unless made in writing. The above warranties shall not extend to any products or parts thereof which have been subjected to any misuse or neglect, damaged by accident, rendered defective by reason of improper installation, damaged from severe weather including floods, or abnormal environmental conditions such as prolonged exposure to corrosives or power surges, or by the performance of repairs or alterations outside of our plant, and shall not apply to any goods or parts thereof furnished by Buyer or acquired from others at Buyer’s specifications. In addition, DX Engineering’s warranties do not extend to other equipment and parts manufactured by others except to the extent of the original manufacturer’s warranty to DX Engineering. The obligations under the foregoing warranties are limited to the precise terms thereof. These warranties provide exclusive remedies, expressly in lieu of all other remedies including claims for special or consequential damages. SELLER NEITHER MAKES NOR ASSUMES ANY OTHER WARRANTY WHATSOEVER, WHETHER EXPRESS, STATUTORY, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, AND NO PERSON IS AUTHORIZED TO ASSUME FOR DX ENGINEERING ANY OBLIGATION OR LIABILITY NOT STRICTLY IN ACCORDANCE WITH THE FOREGOING.

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