INSTALLATION INSTRUCTIONS

4500 Series Conversion to SMART2™

READ BEFORE INSTALLING

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**4500 Series Conversion to SMART2™**

**Item** | **Part #** | **Description**
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1. | 1120708 | Solenoid Cover Assembly - 4500 Series SMART2™
2. | 1704312 | Motor-Reversing Solenoid - 3-Point Mt.
3. | 1702707 | Ring Terminal - 6 Ga. x 1/4" Stud
4. | 1703231 | Cable Tie - 8"
5. | 1703882 | Cap Plug w/Hole
6. | 1122210 | Encoder Wire Assembly - 10'
7. | 1700403 | Self-Tapping Screw - 1/4" x 3/4"
8. | 1700427 | Flat Washer - 1/4"
9. | 1700436 | Lock Washer - 1/4"
10. | 1700408 | Hex Nut - 1/4"
11. | 1704798 | Connector Half - Weather Pack
12. | 1121641 | Receiver Encoder Wire - 6'

**STEP 1:** Disconnect power to receiver. Remove existing gray cover and RF solenoid from receiver bracket.

**STEP 2:** Using pilot hole in receiver bracket as guide, drill 1/2" hole in bracket.

**NOTE:** If your receiver bracket does not have a pilot hole, measure 1 5/16" from both bottom edge and left side edge of receiver bracket and mark hole location for drilling.

**STEP 3:** Install solenoid 2 onto wireless receiver bracket. Fasten with #10 x 1/2" cap screws.

**STEP 4:** Remove receiver bracket from trailer and install encoder wire 12 through drilled hole from back side of bracket. Feed one connector at a time through drilled hole.

**NOTE:** Your receiver bracket may look different if you previously installed a 4500 Series upper arm conversion kit.

**HELP LINE:** 1-866-748-7435
Install encoder wire up arm to motor.  
**OPTION 1:** Route encoder wire along outside of arm.

**STEP A:** Unfasten and remove motor cover.

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**STEP B:** Locate second wiring plate next to existing wiring plate. Mark and drill 1 1/2” hole through trailer skin.

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**STEP C:** Align new wiring plate of encoder wire assembly with 1 1/2” hole. Using wiring plate as guide, mark and drill two 7/32” holes as shown.

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**STEP D:** Fasten encoder wire assembly to front of trailer with screws, flat washers, lock washers and nuts.

**STEP E:** Fasten weather pack connector to end of encoder wire, connecting side A to white wire and side B to black wire.

**STEP F:** Run encoder wire up outside of arm and secure to arm with cable ties.

**STEP G:** Plug encoder wire into encoder wire on motor. See detail A. Reinstall motor cover. Go to step 5.
Install encoder wire up arm to motor.

OPTION 2: Route encoder wire through inside of arm.

**STEP A:** Unfasten and remove motor cover. Disconnect motor from roll tube. Gently set arm and motor on ground.

**NOTE:** Requires two people for safe installation.

**STEP B:** Unfasten and disconnect 6-ga. wire from motor. Cut off and remove ring terminals.

**STEP C:** Straighten arm. Disassemble upper arm and elbow by unscrewing upper arm and elbow.

**STEP D:** Remove existing wiring plate from trailer.

**STEP E:** Remove upper end plug from top of upper arm. Connect guide wire to blunt end of 6-ga. wire with electrical tape. Pull 6-ga. wire out of arm from pivot side. Remove tape holding guide wire to 6-ga. wire. Leave guide wire inside arm sections.

**STEP F:** Remove lower end plug and wiring plate from existing 6-ga. SMARTwire™. Discard wiring plate. Route blunt end of 6-ga. wire through wiring plate in new encoder wire assembly. Fasten wiring plate to existing holes in front of trailer with screws, flat washers, lock washers and nuts.

**STEP G:** Use drill or snips to enlarge hole in end plugs so encoder wire will fit through hole along with 6-ga. wire. Run 6-ga. wire and encoder wire through hole.

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**WARNING**

Flex arms are under tension while torsion springs are engaged. Use caution while assembling and disassembling arms. Failure to read and follow instructions could result in serious injury or death.

**STEP B:** Unfasten and disconnect 6-ga. wire from motor. Cut off and remove ring terminals.

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**NOTE:** Requires two people for safe installation.
Install encoder wire up arm to motor (continued)

OPTION 2: (continued)

**STEP H:** Re-tape 6-ga. wire to guide wire. Using guide wire, pull 6-ga. wire and encoder wire through inside of arm sections. Remove guide wire. Run wires through upper end plug 5.

**STEP I:** Fasten weather pack connector 6 to end on encoder wire 5, connecting side A to white wire and side B to black wire.

**STEP J:** Reassemble arm and tighten flex arm connections. Reassemble motor onto roll tube. Press upper and lower end plugs into arm.

**STEP K:** Crimp ring terminals 3 on end of 6-ga. wire and fasten ring terminals to motor terminals. Slide boots over studs.

**NOTE:** Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely.

**STEP L:** Plug encoder wire 6 into encoder wire on motor. Secure with cable tie 4 to prevent wire damage.

**STEP M:** Reinstall motor cover. Go to step 5.
4500 Series Conversion to SMART2™ - continued

STEP 5: Route encoder wire 3 from receiver to encoder wire from motor and connect sealed connectors together. Secure cable with cable ties 4.

STEP 6: Re-mount receiver bracket to trailer.

STEP 7: Connect wires from receiver bracket to solenoid and from gray solenoid cover to solenoid as shown below.

STEP 8: Reconnect power to receiver. Pair (introduce) SMART2™ remote to receiver as shown in remote instructions (P/N 1122198) and verify operation.

STEP 9: Replace solenoid cover and secure with #10 x 1/2" cap screws.

NOTE: Swap green and yellow wires to reverse motor direction for reverse roll systems.
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