

**Bobcat**

# INSTALLATION INSTRUCTION

**Instruction:** 6901872enUS  
**Product:** BOBCAT LOADER  
**Subject:** 14-PIN ATTACHMENT CONTROL KIT

<b>Kit Number</b>	6733136
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MODEL	SERIAL NUMBER
753	515830001 & Above 516220001 & Above
763	512250001 & Above 512450001 & Above 512620001 & Above
773	500K11001 & Above 517611001 & Above 518011001 & Above 519011001 & Above 519111001 & Above 519211001 & Above
863	514440001 & Above 514540001 & Above 514640001 & Above
A220	519611001 & Above 519711001 & Above
864	516811001-516814999 517511001-517514999 518911001-518914999
A300	521211001 & Above 523411001 & Above 523511001 & Above 526411001 & Above 526511001 & Above 539911001 & Above 540011001 & Above A5GW11001 & Above A5GY11001 & Above
A770	A3P611001 & Above A3P711001 & Above ASRW11001 & Above ATDW11001 & Above ATDY11001 & Above AT5J11001 & Above B3BU11001 & Above
S100	A8ET11001 & Above AB6411001 & Above A2GB11001 & Above

MODEL	SERIAL NUMBER
S130	524611001 & Above 524711001 & Above 527311001 & Above 527411001 & Above 529211001 & Above 529611001 & Above A00E11001 & Above A14W11001 & Above A1Z711001 & Above A3KY11001 & Above A84W11001 & Above A8KA11001 & Above A8NW11001 & Above
S150	523811001 & Above 523911001 & Above 526811001 & Above 526911001 & Above 529711001 & Above 539811001 & Above 539711001 & Above A15011001 & Above A3L111001 & Above A8M011001 & Above AC3011001 & Above
S160	524011001 & Above 524111001 & Above 526611001 & Above 526711001 & Above 529911001 & Above 530011001 & Above 539811001 & Above A15111001 & Above A3L311001 & Above A3L411001 & Above AC3211001 & Above AEYN11001 & Above AHWA11001 & Above
S175	517625001 & Above 518115001 & Above 525211001 & Above 525311001 & Above 530111001 & Above 530211001 & Above A3L511001 & Above A8M411001 & Above A8NY11001 & Above A8NZ11001 & Above

MODEL	SERIAL NUMBER
S185	519028001 & Above 519215001 & Above 525011001 & Above 525111001 & Above 530311001 & Above 530411001 & Above A3L911001 & Above A3LH11001 & Above ABRT11001 & Above AEYU11001 & Above
S205	528411001 & Above 528511001 & Above 530511001 & Above 530611001 & Above A3LJ11001 & Above A3LK11001 & Above
S220	523211001 & Above 523311001 & Above 526211001 & Above 526311001 & Above 530711001 & Above 530811001 & Above A5GK11001 & Above A5GL11001 & Above
S250	520711001 & Above 520811001 & Above 521311001 & Above 521411001 & Above 526011001 & Above 526111001 & Above 530911001 & Above 531011001 & Above A5GM11001 & Above A5GN11001 & Above
S300	521511001 & Above 521611001 & Above 525811001 & Above 525911001 & Above 531111001 & Above 531211001 & Above A5GP11001 & Above A5GR11001 & Above AJ4M11001 & Above
S330	A02011001 & Above A02111001 & Above A5HA11001 & Above AAKM11001 & Above
S450	AUVB11001 & Above AV9V11001 & Above B1E611001 & Above B1ED11001 & Above B4J111001 & Above

MODEL	SERIAL NUMBER
S510	A3NJ11001 & Above AZN411001 & Above AZN511001 & Above ALNW11001 & Above B42411001 & Above B42S11001 & Above
S530	A7TV11001 & Above AZN611001 & Above AZN711001 & Above ALR811001 & Above B42811001 & Above B42T11001 & Above
S550	A3NL11001 & Above AZN811001 & Above AZN911001 & Above AHGM11001 & Above B3GY11001 & Above
S570	A7U711001 & Above AZNB11001 & Above AZNC11001 & Above ALM411001 & Above B3GZ11001 & Above
S590	ANMN11001 & Above AZND11001 & Above AZNE11001 & Above AR9R11001 & Above B3H111001 & Above
S595	B3NL11001 & Above
S630	A3NT11001 & Above A3NU11004 & Above AHGL11001 & Above B2L511001 & Above
S650	A3NV11001 & Above A3NW11001 & Above ALJ811001 & Above S1ML11001 & Above 1MLS11001 & Above B2LA11001 & Above
S740	B3BT11001 & Above
S750	A3P211001 & Above ATDZ11001 & Above AT5211001 & Above
S770	A3P411001 & Above A3P511001 & Above ASRV11001 & Above ATF211001 & Above ATF311001 & Above AT5A11001 & Above B3BV11001 & Above

MODEL	SERIAL NUMBER
S850	ACS711001 & Above ACSL11001 & Above ATF411001 & Above ATF511001 & Above AJ9C11001 & Above B3BY11001 & Above B47711001 & Above
T110	AE0H11001 & Above AE0J11001 & Above
T140	527111001 & Above 527211001 & Above 529311001 & Above 531311001 & Above A3L711001 & Above A3L811001 & Above A8M511001 & Above
T180	524211001 & Above 524311001 & Above 527511001 & Above 527611001 & Above 531411001 & Above 531511001 & Above A3LL11001 & Above
T190	519311001 & Above 519411001 & Above 527011001 & Above 527711001 & Above 527811001 & Above 527911001 & Above 531611001 & Above 531711001 & Above A3LN11001 & Above A3LP11001 & Above
T200	516815001 & Above 517515001 & Above 518915001 & Above
T250	523011001 & Above 523111001 & Above 525611001 & Above 525711001 & Above 531811001 & Above A5GS11001 & Above 531911001 & Above A5GT11001 & Above
T300	521911001 & Above 522011001 & Above 525411001 & Above 525511001 & Above 532011001 & Above 532111001 & Above A5GU11001 & Above A5GV11001 & Above

MODEL	SERIAL NUMBER
T320	A7MP11001 & Above AAKZ11001 & Above
T450	AUVP11001 & Above B1EM11001 & Above B4J211001 & Above
T550	A7UJ11001 & Above AJZV11001 & Above
T590	A3NR11001 & Above A3NS11001 & Above ALJU11001 & Above B37811001 & Above B3Z711001 & Above B3ZA11001 & Above
T595	B3NK11001 & Above
T630	A7PU11001 & Above AJDT11001 & Above
T650	A3P011001 & Above A3P111001 & Above ALJG11001 & Above T1ML11001 & Above 1MLT11001 & Above B2KZ11001 & Above
T740	B3CA11001 & Above
T750	ANKA11001 & Above ATF611001 & Above AT5T11001 & Above
T770	A3P811001 & Above A3P911001 & Above AUYB11001 & Above AN8T11001 & Above ATF711001 & Above AT6311001 & Above B3BW11001 & Above
T870	A3PG11001 & Above A3PH11001 & Above AN8L11001 & Above ATF811001 & Above ASWT11001 & Above B3BZ11001 & Above B47C11001 & Above B47H11001 & Above B47L11001 & Above

**ESTIMATED INSTALLATION TIME: 1.5 HOURS\***

**\*Approximate time only; actual time may vary.**

### Kit Explanation

This installation instruction will explain how to safely and correctly install the 14-Pin Attachment Control Kit. This kit is intended to allow operation of multiple attachments.

To avoid duplication, instructions may refer you to the Operation & Maintenance Manual or the Service Manual for more detailed instructions.

Read this instruction completely to become familiar with the procedures before beginning the installation.

**NOTE:** The loaders listed in this instruction have various lift arm designs. The attachment control harness will be routed and secured to the lift arms using different methods, which will be noted in the instruction.

Stop the engine, open the rear door, and raise the operator cab. (See the Service Manual for the correct procedure.)

## **WARNING**

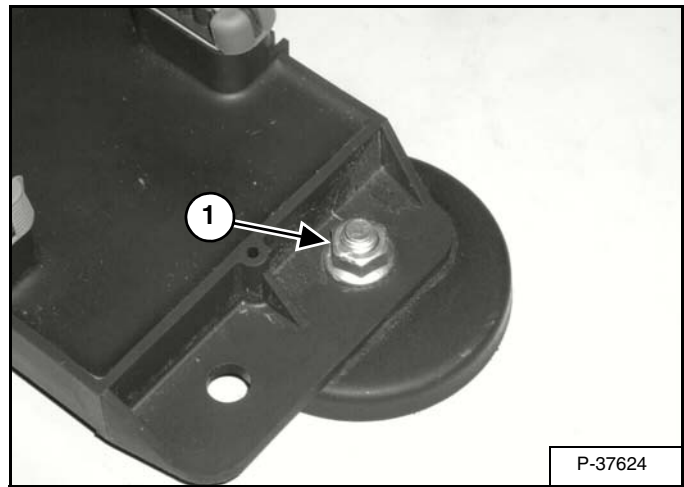
### **AVOID INJURY OR DEATH**

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

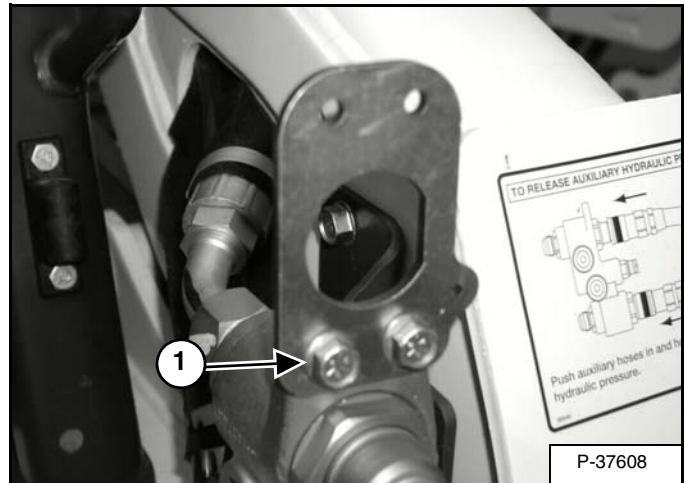
W-2019-0907

**Figure 1**



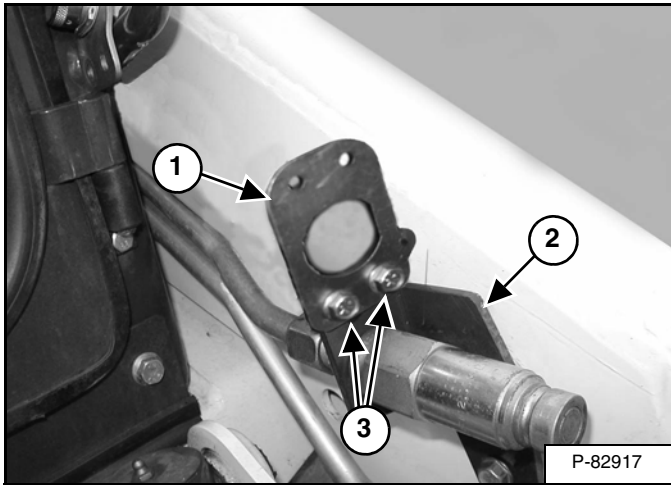
**ALL:** If not already installed, use the bolts and nuts (Item 1) [Figure 1] to install a magnet on each end of the ACD controller.

**Figure 2**



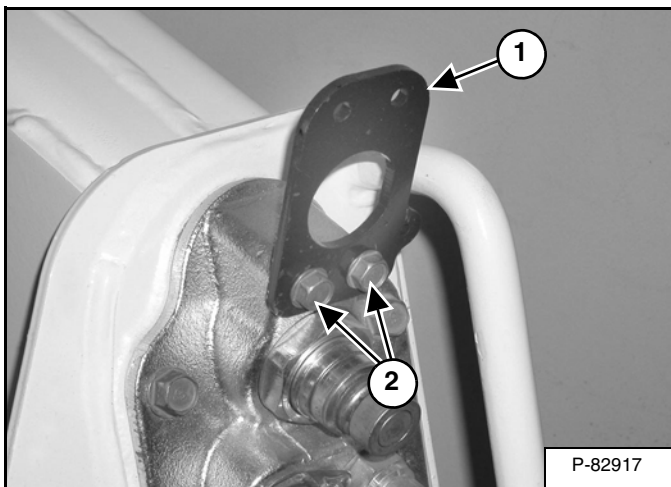
If machine is equipped with an auxiliary coupler block, use the two bolts (Item 1) [Figure 2] to secure the 14-pin mounting bracket on the auxiliary coupler.

**Figure 3**



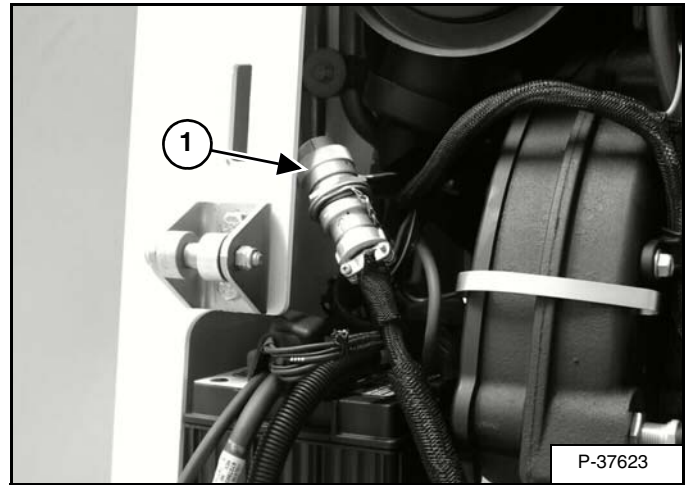
If machine is equipped with a coupler mount, install the 14-pin mounting bracket (Item 1) onto the existing coupler mount (Item 2) with the two bolts (Item 3) [Figure 3].

**Figure 4**



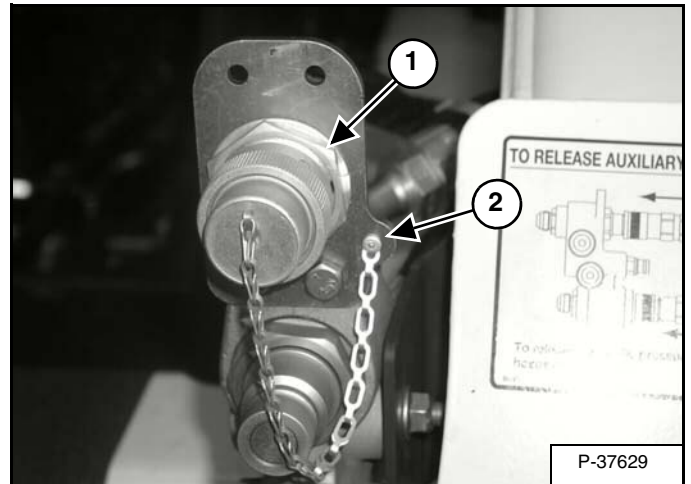
If machine is equipped with an auxiliary coupler block, install the 14-pin mounting bracket (Item 1) using the two bolts (Item 2) [Figure 4].

**Figure 5**



**S175, S185, T190, S250, S300, and A300:** Feed the 14-pin end of the harness (Item 1) [Figure 5] into the left upright. Route the harness along the auxiliary hoses, out the top of the upright, and toward the front of the loader. The harness will be between the lift arm and the cab.

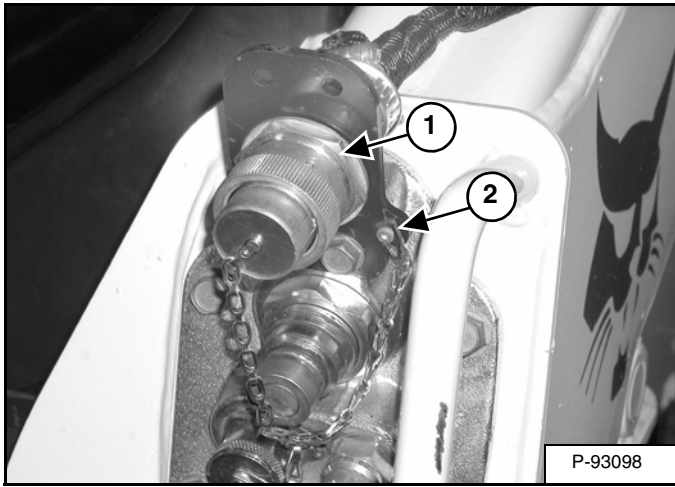
**Figure 6**



**S175, S185, T190, S250, S300, S450, A300, and T450:** Install the 14-pin connector into the bracket. Install the washer and locking nut (Item 1) [Figure 6]. Tighten the nut and install the cap.

Use the rivet (Item 2) [Figure 6] to install the chain on the 14-pin mounting bracket.

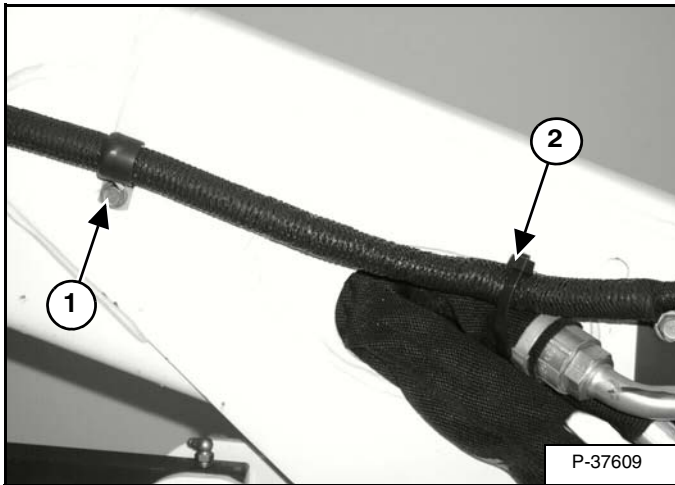
**Figure 7**



**A770, S510, S530, S550, S570, S590, S595, S630, S650, S750, S850, T550, T590, T595, T630, T650, T750, T770, and T870:** Install the 14-pin connector into the bracket. Install the washer and locking nut (Item 1) [Figure 7]. Tighten the nut and install the cap.

Use the rivet (Item 2) [Figure 7] to install the chain on the 14-pin mounting bracket.

**Figure 8**

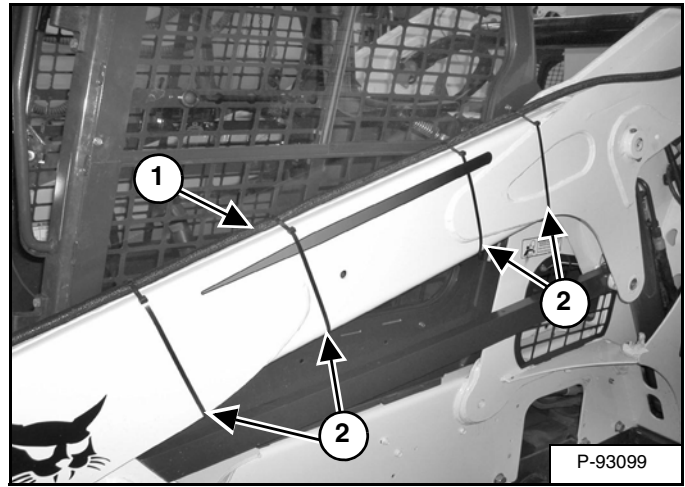


**S220, S250, S300, and A300:** Measure along the inside of the left lift arm and place a mark in the center approximately every 305 mm (12 in).

Drill 9 mm (23/64 in) holes at the marked locations. Install the insulated clips on the harness and use the thread rolling screws (Item 1) [Figure 8] to secure the clips in the holes.

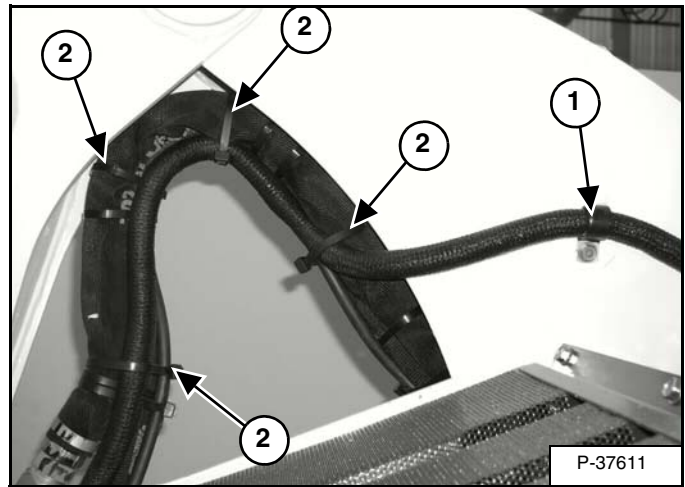
Install a tie strap (Item 2) [Figure 8] close to the auxiliary coupler bracket to secure the harness.

**Figure 9**



**A770, S530, S570, S590, S595, S650, S750, S770, S850, T550, T590, T595, T650, T750, T770, and T870:** Position the harness (Item 1) on top of the lift arm and install the tie straps (Item 2) [Figure 9].

**Figure 10**



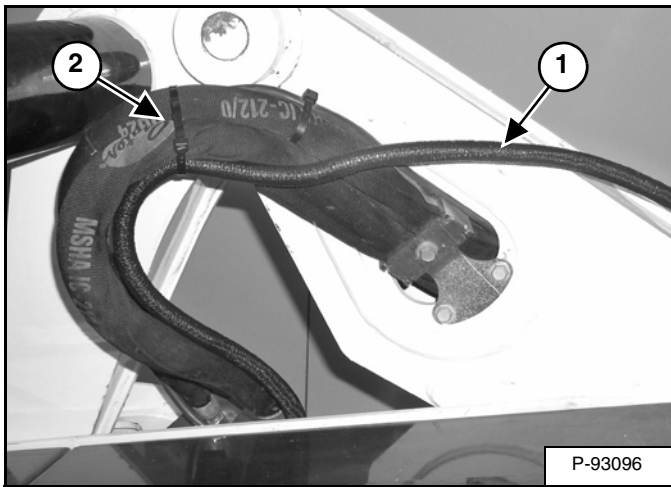
**S220, S250, S300, and A300:** Position the last insulated clip (Item 1) [Figure 10] in a position where the harness will not be pinched during lift arm function.

Route the harness along the auxiliary hoses and use tie straps (Item 2) [Figure 10] to secure the harness.

Go to page 8 to complete the electrical connections in the engine area.

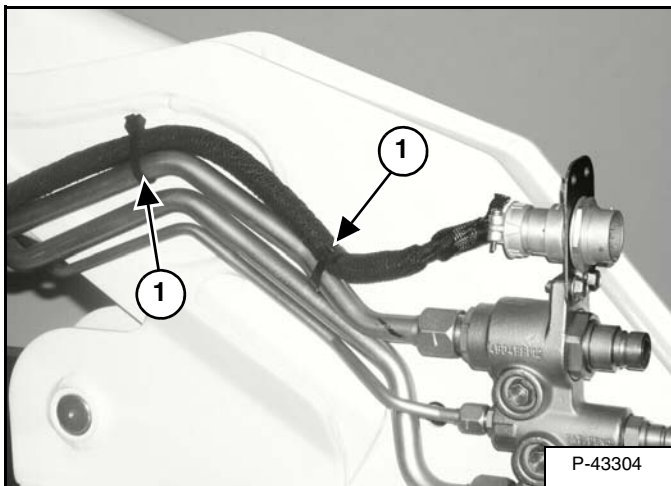


**Figure 11**



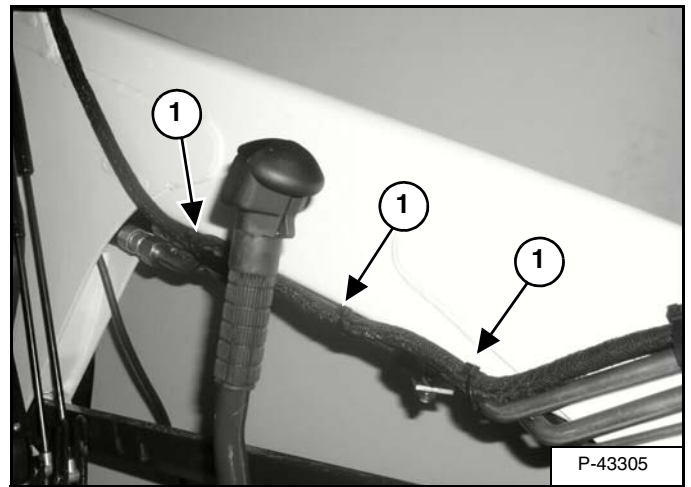
**A770, S530, S570, S590, S595, S650, S750, S770, S850, T550, T590, T595, T650, T750, T770, and T870:** Route the harness (Item 1) along the auxiliary hoses and use the tie strap (Item 2) [Figure 11] to secure the harness.

**Figure 12**



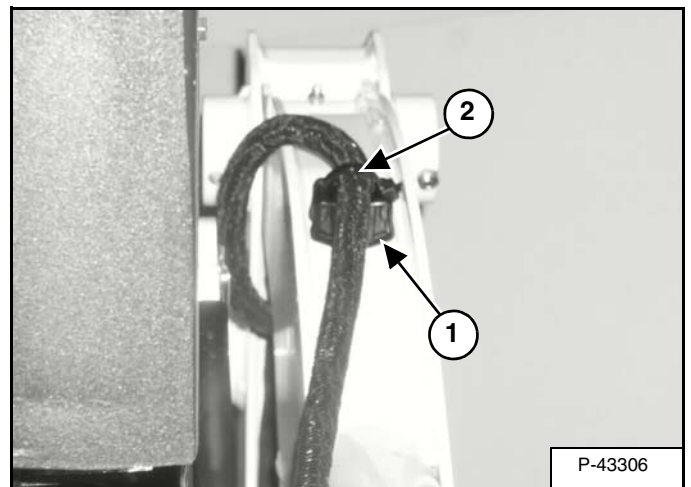
**S175, S185, and T190:** Position the harness along the tubelines and install tie straps (Item 1) [Figure 12] to secure the harness.

**Figure 13**



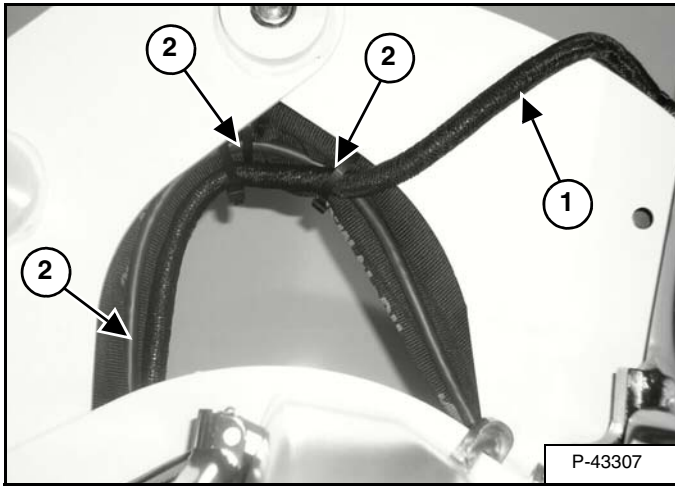
**S175, S185, and T190:** Position the harness along the tubelines and route up to the “H” pattern. Install tie straps (Item 1) [Figure 13] to secure the harness to the tubelines.

**Figure 14**



**S175, S185, and T190:** Install the tree mount (Item 1) in the lift arm. Use a tie strap (Item 2) [Figure 14] to secure the harness to the mount.

**Figure 15**

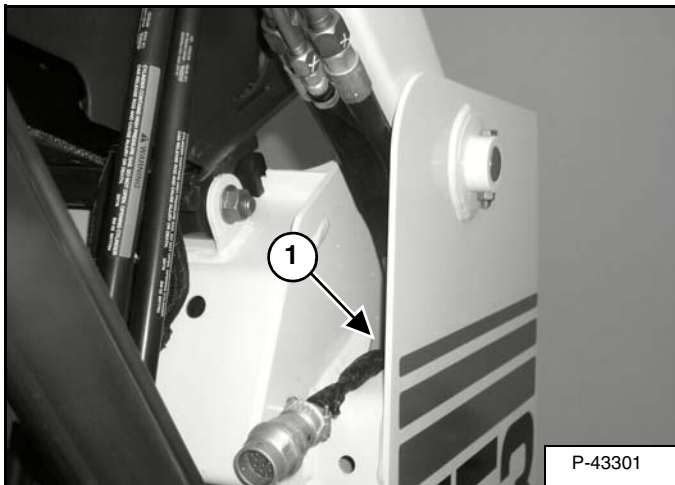


**S175, S185, and T190:** Route the harness (Item 1) [Figure 15] from the tree mount to the auxiliary hoses that follow the “H” pattern pivot area. Be sure the harness will not be pinched during lift arm function.

Install tie straps (Item 2) [Figure 15] as needed to secure the harness to the auxiliary hoses.

Go to Page 8 to complete the electrical connections in the engine area.

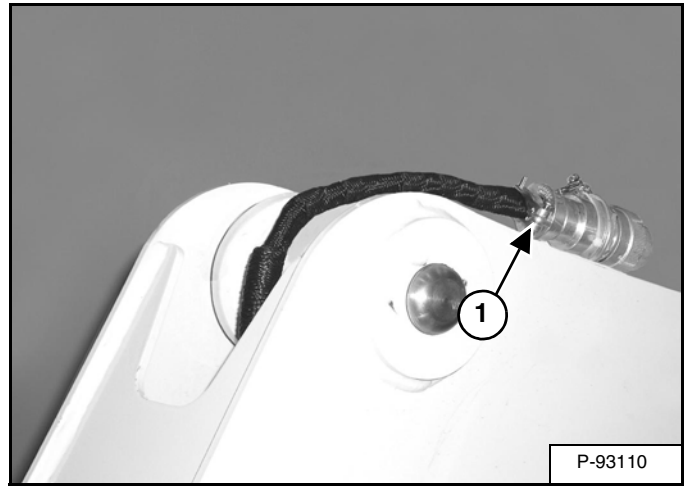
**Figure 16**



**753, 763, 863, 864, A220, S100, S130, S150, S160, S450, T110, T200, and T450:** Raise the lift arm and install an approved lift arm support device. Route the harness out the opening between the lift arm and the left upright (Item 1) [Figure 16].

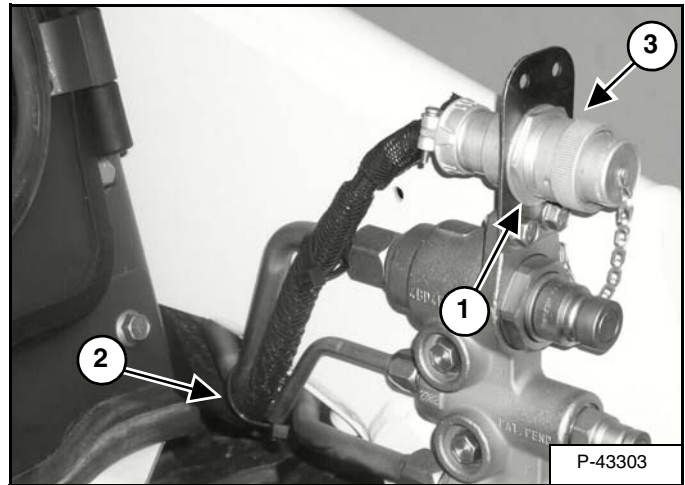
Continue to route the harness along the auxiliary tubelines.

**Figure 17**



**S510, S550, S630, T550, and T630:** Route the harness (Item 1) [Figure 17] out the top of the upright and down the lift arm.

**Figure 18**

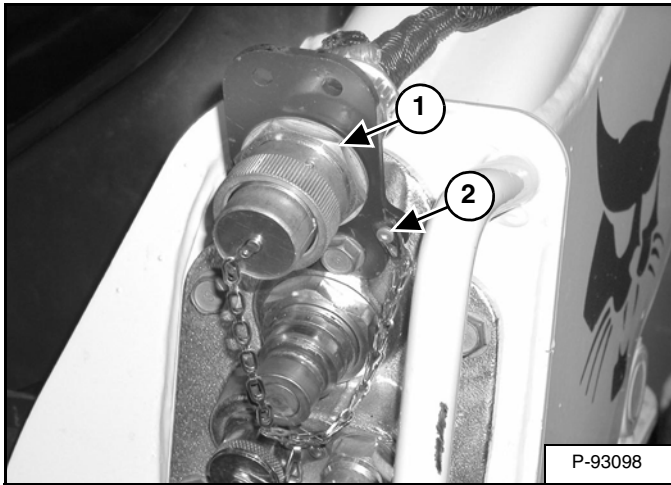


**753, 763, 863, 864, A220, S100, S130, S160, T110, and T200:** Install the harness into the mount bracket. Install the washer and locking nut (Item 1). Use a tie strap (Item 2) [Figure 18] to secure the harness to the tubelines.

Use the rivet (Item 3) [Figure 18] to install the chain on the 14-pin mounting bracket.



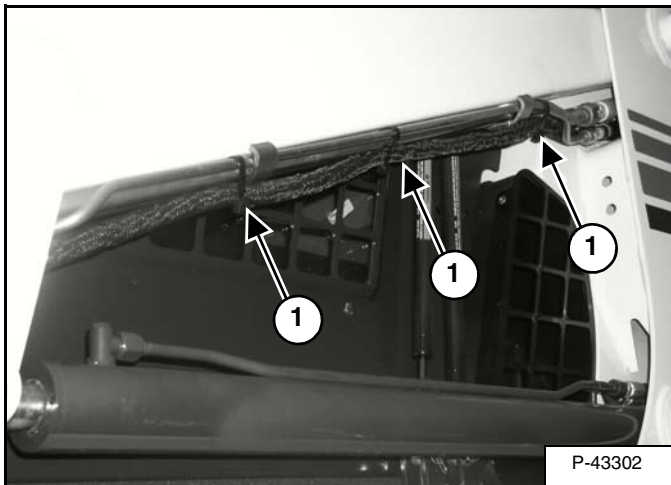
Figure 19



**S510, S550, S630, T550, and T630:** Install the 14-pin connector into the bracket. Install the washer and locking nut (Item 1) [Figure 19]. Tighten the nut and install the cap.

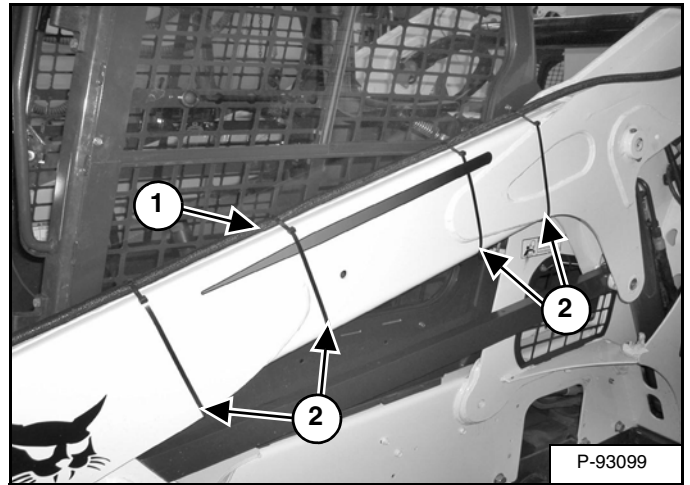
Use the rivet (Item 2) [Figure 19] to install the chain on the 14-pin mounting bracket.

Figure 20



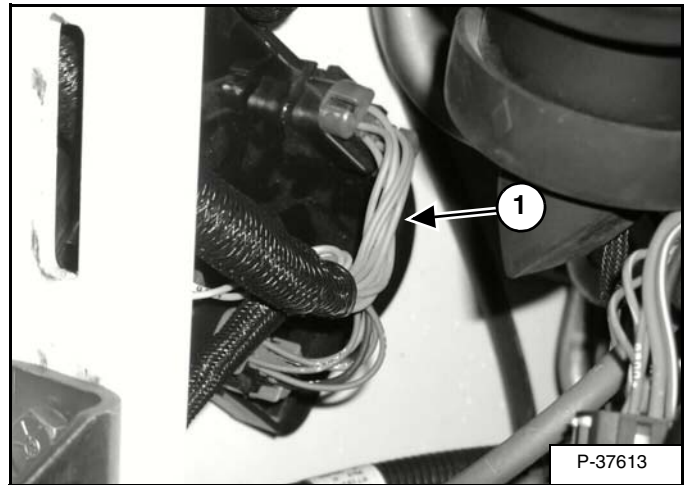
**753, 763, 863, 864, A220, S100, S130, S160, S450, T110, T200, and T450:** Position the harness along the auxiliary tubelines and use tie straps (Item 1) [Figure 20] as needed to secure the harness to the tubelines.

Figure 21



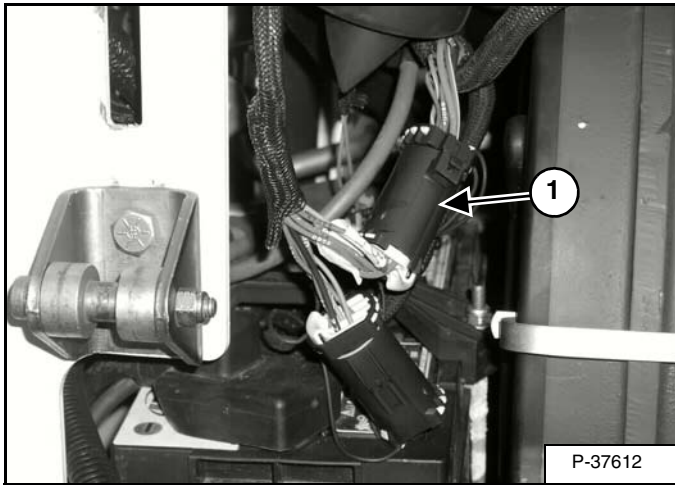
**S510, S550, S630, T550, and T630:** Position the harness (Item 1) on top of the lift arm and install the tie straps (Item 2) [Figure 21].

Figure 22



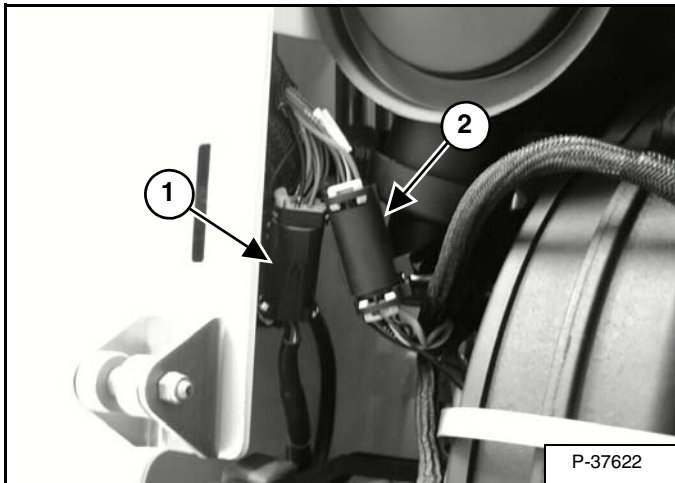
**All:** Position the ACD controller (Item 1) [Figure 22] above the battery on the inside surface of the left upright.

**Figure 23**



**All:** Connect the attachment control harness to the ACD / Remote Start Tool connector (Item 1) [Figure 23].

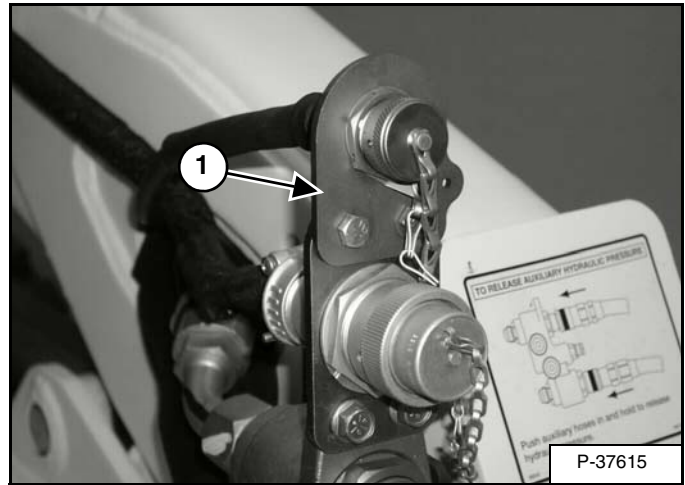
**Figure 24**



**All:** If the loader is equipped with a 7-pin attachment control harness, disconnect it from the ACD / Remote Start Tool connector.

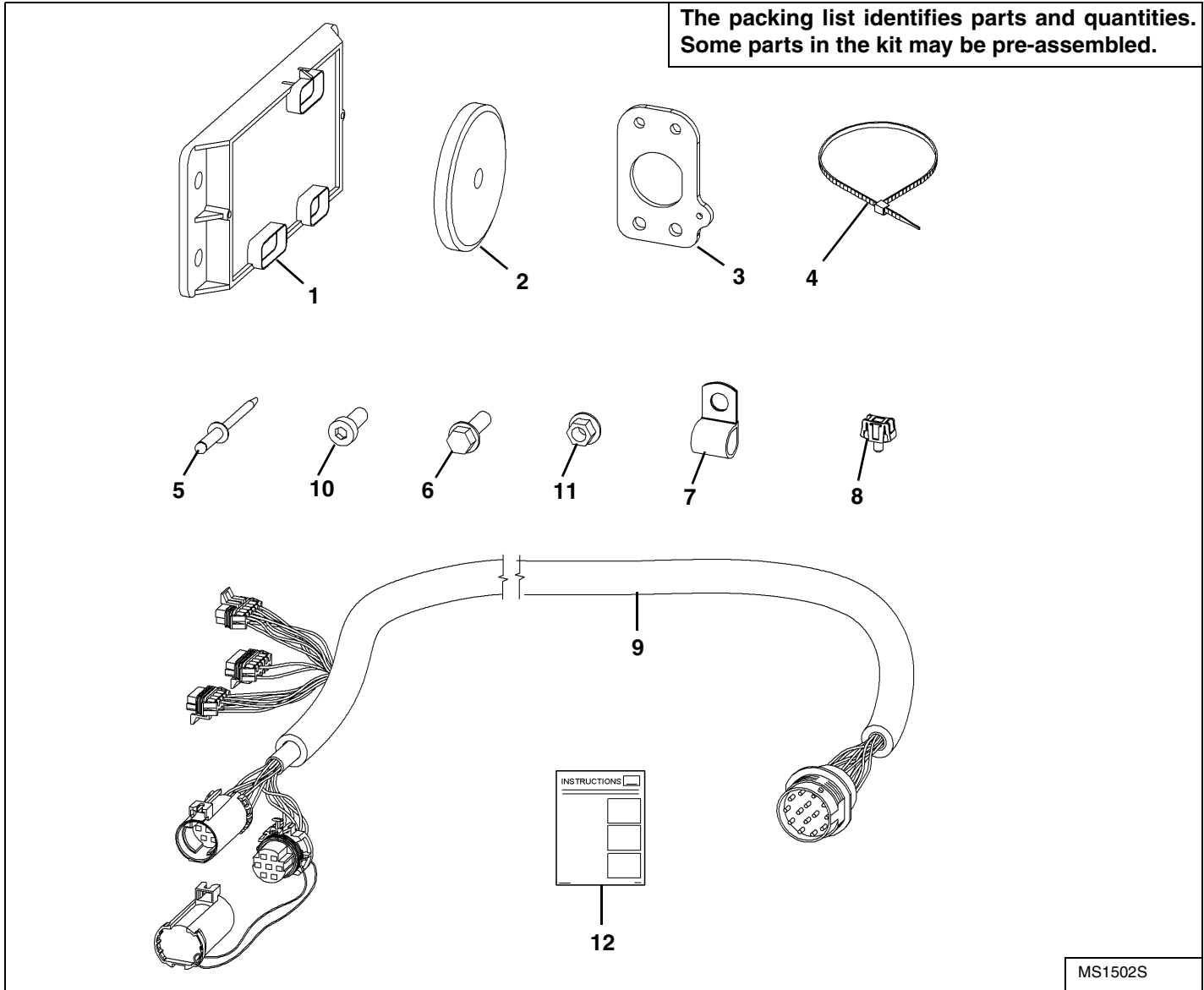
Connect the attachment control harness to the 7-pin attachment control harness (Item 1) and the ACD / Remote Start Tool connector (Item 2) [Figure 24].

**Figure 25**



**All:** If the loader is equipped with a 7-pin attachment control harness, the 7-pin mounting bracket (Item 1) [Figure 25] must be installed on top of the 14-pin mounting bracket.

# CUSTOMER PACKING LIST



## (Kit #6733136) 14-Pin Attachment Control Kit

REF.	PART NO.	DESCRIPTION	QTY.
1	6678676	CONTROLLER	1
2	6719448	MAGNET, CONTROL ATTACH	2
3	6733144	MOUNT	1
4	6624289	TIE STRAP	9
5	6704892	RIVET	1
6	84G3112	BOLT, THREAD ROLLING (3/8 - 16 UNC x 3/4 IN GRD 5)	8
7	30H50	CLIP	6
8	6675281	TREE MOUNT	1
9	6732730	HARNESS	1
10	25G612	BOLT (3/8 - 16 UNC x 3/4 IN GRD 5)	2
11	83D6	NUT, LOCK (3/8 - 16 UNC GRD 8)	2
12	6901872enUS	INSTRUCTIONS	1