

FASTEN TRACKER MODEL BT-60F-400-2KT AND BT-60F-400-3KT INSTALLATION NON-INSULATED AERIAL LIFT WITH FIBERGLASS BUCKET

1. The items needed for the installation will be the Fasten Tracker

BT-60F-400-2KT or BT-60F-400-3KT Kits,

NOTE: The 2KT and 3KT Fasten Tracker Models are identical other than that the 3KT includes the Altec Anchor Block (OEM Part # SYS/4657) which is installed onto the Altec Anchor Point.

AT-8040-Adhesive (OEM Part # EPSU/2448)

A Dispensing Gun (OEM Part # EPSU/2449)

2 Mixing Tips (OEM Part # EPSU/2447) 1 is a Spare if needed.

Isopropyl Alcohol and Paper Towel, Scissors, and Marker Pen.

2. Installing the Fasten Tracker bracket

1. The AT—8040 adhesive must be applied at temperature above 50F. If temperature is below 50 degrees, carefully warm up the surface of the bucket with a heat gun to the proper temperature range. Be careful not to overheat the surface. See this link for AT-8040 Product Description Sheet: www.weldmountsystems.com/pdfs/AT-8040-Technical-Data-sheet.pdf
2. Determine the desired location for the Fasten Tracker System on the outside of basket near the certified anchor point on the boom. Wipe down the outside area of the basket with isopropyl alcohol to ensure a clean surface for the adhesive to bond to the bracket base.
3. Place the entire Fasten Tracker unit up against this location outside of the basket to gauge and determine proper height and positioning for the installation base and bracket to be located. Make sure the attachment detector/trigger is positioned high enough above the basket lip to allow sufficient clearance for the lift operators safety lanyard to easily attach with clearance above the basket lip and also allow room for the basket cover to slip over and under the basket lip.
4. When the unit is determined to be in a level and proper position, mark this alignment with a pencil or marker.

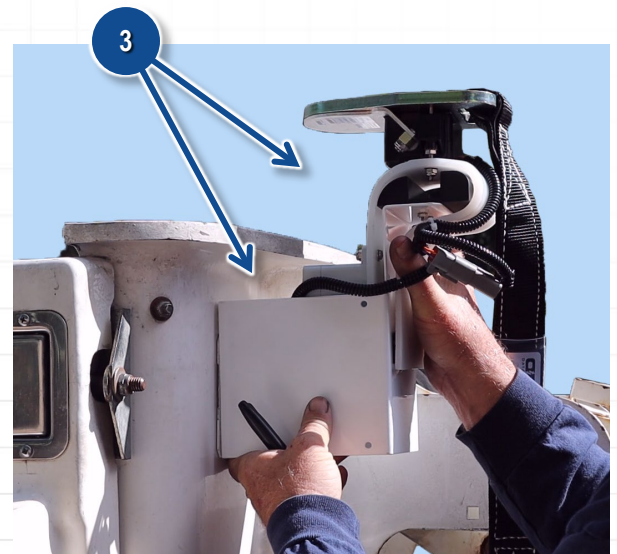


Figure 1: Fasten Tracker properly positioned on fiberglass bucket.

5. Set the Fasten Tracker unit aside for now.
6. Place the adhesive cartridge into the dispensing gun and install the mixing tip onto the adhesive tube.
7. Apply the adhesive to the bracket base as shown here in black marker. The adhesive is applied about ¼ inch from the outside edge of the base and then apply the adhesive onto the base surface area as shown in Figure 2. This will produce a strong lasting bond to the fiberglass basket.
8. Now, position the base within your alignment marks designated on the basket wall. Press the base firmly into position for approximately 90 seconds and until there is NO sliding or movement of the base before proceeding, or apply a C-clamp such as seen here. The adhesive is curing and bonding into position on the basket for 30 minutes at this stage.
9. While the basket base adhesive is curing for 30 minutes, proceed to wiring the Fasten Tracker harness into the aerial lift control box.



Figure 2: Adhesive glue pattern.

3. Wiring the Fasten Tracker wiring harness and Dom-2

10. Tools and equipment needed are: A wire stripper /crimping tool, 4 spade wire terminals, 1 butt splice crimp connector, The DOM-2 lower boom enabler, and the Fasten Tracker wiring harness.
11. Gain access to the interior of the Control Box.
12. Carefully insert the Fasten Tracker wiring harness into the aerial lift control box.
13. Turn ON power to the lift.
14. The fasten tracker wiring harness has 3 wires. Red, Black and White.
15. Add crimp terminals, to the Red and Black wires. The RED wire is for connection to the control box 12-volt terminal location. Use the control boxes schematic or a volt meter to identify this 12-volt terminal and connect the Fasten Trackers red wire to this terminal.
16. The Black wire is a ground. Attach this wire to an existing ground.
17. It is now time to add the Lower boom enabler module, OEM Part #DOM-2. This DOM-2 will ensure that UP switch activation of both the upper boom and the lower boom will activate the warning alarm when necessary.



Figure 3: Fasten Tracker bracket glued and C-clamped to bucket.

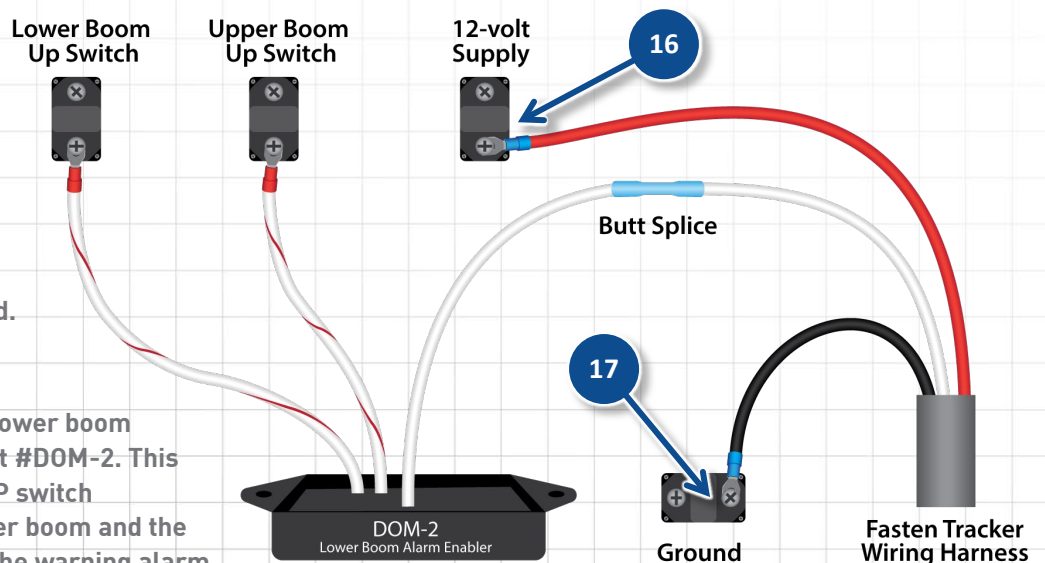


Figure 4: Fasten Tracker/Dom-2 wiring diagram.

18. Splice the solid white wire from the Fasten Tracker wiring harness to the solid white wire input of the DOM-2 module using a butt splice.

19. The 2 output wires of the DOM-2 module are white with distinct red markings. Add crimp terminals to both of these wires. Next, connect One of these wires to the Upper boom Up switch terminal and the other to the lower boom Up switch terminal.

20. Ensure that these terminal connections are properly tightened. Fasten Tracker wiring is now complete.

21. Tie wrap the DOM module and tuck into position neatly within the control box.

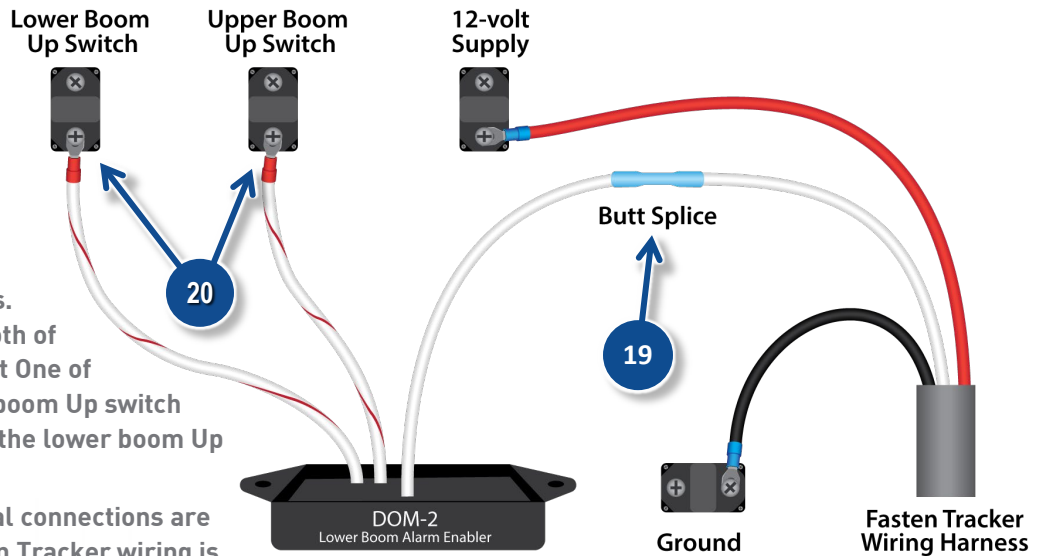


Figure 5: Fasten Tracker/Dom-2 wiring diagram.

4. Installing the Fasten Tracker onto the bracket and connecting to the controls

22. If the required 30 minutes for the bracket base adhesive to cure has elapsed at this stage, it is time to place and secure the installation bracket onto the bracket base.
23. Align the position of the holes on the installation bracket with the 4 stud/bolts on the base and slide the bracket onto the base. Now tighten the provided nuts which will secure the Fasten Tracker bracket into its position on the base.
24. The white PVC holster clip that slips over this bracket has velcro adhesive on both sides of this holster clip. Secure this velcro onto both the inside and outside surface of the bracket using 10 seconds of firm pressure. It is this firm pressure that activates the bonding strength of this hook-to-hook adhesive.
25. Now, attach the Fasten Tracker wiring harness connector from the boom control box, to the connector coming from the Fasten Tracker control box. Carefully tie wrap wiring harness into a nice neat position.
26. Attach the Fasten Tracker anchorage extension safety lanyard to the boom anchor point where it must remain attached at all times.
27. The Fasten Tracker Model BT-60F-400-2KT installation is now complete.

5. Test the Fasten Tracker Installation

28. Test the installation before continuing, by activating the UPPER BOOM Up switch and then the lower boom up switch, without the safety lanyard connected to the FASTEN Tracker detector/trigger. The fasten tracker should sound an immediate alarm when the aerial lift basket makes a very slight upward movement. If this alarm fails, check the connection. Now, connect the safety harness lanyard to the fasten tracker detector and activate the UP switch, there should not be any alarms.
29. When finished, close the control box as required.

INSTALLING THE MODEL BT-60F-400-3KT ANCHOR BLOCK

30. If the bucket truck is an ALTEC and a Model BT-60F-400-3KT Fasten Tracker. You will need to now attach the Anchor Block, OEM Part #SYS/4657 to the Altec anchor point on boom using the two 8/32 Philips head screws and nuts provided. The anchor block clips into place and is secured over the far side of the Altec anchor point furthest away from the operator and aerial lift basket.
31. This Altec Anchor Block ensures that the Fasten Trackers anchorage extension lanyard snap stays in its proper position, nearest the basket, on the Altec anchor point while the boom is elevating and descending.



Figure 6: Installation of the SYS/4657 Anchor Block.