

Tracker DTS Fleet Inspection Checklist

Testing Protocol for Tracker DTS Units

The following checklist should be used as a way to test for irregularities in Tracker DTS avalanche transceivers. This is not a manufacturer's certification process and does not replace a regular trailhead test. Always perform a trailhead test with your partner.

Set up You will need:
 Test Beacon - Transmit
 Test Beacon - Receive

Fallouts There are two types of fallouts (failures):
Physical fallouts
 Visual damage to beacon: crack in case, torn strap, broken D-ring, face plate hole, speaker damage.

Electronic fallouts
 Distance display errors, directional light errors, battery power errors, etc.

Test #1 The Basics

- Determine the year of the beacon:**
- 97-98 Flat buttons, no icons around the SP button
 - 98-99 Flat buttons with icons around the SP buttons
 - 99-00 Raised buttons with old "Access" logo
 - 00-03 Raised buttons with new "BCA" logo
 - 04-11 New Tracker case and holster.

Beacon Year

Good	Description of Problem

- Check the following physical issues:**
- Examine the face plate.
 - Lens cap is tightly in place.
 - Check to see battery screw is secure.
 - Open battery compartment and check battery contacts for corrosion or buildup.
 - Check plastic for cracks.
 - Check gasket for integrity.
 - No major blemishes / scratches on the unit.
 - Check ultrasonic weld for visible break in the seal.
 - Check to see that the strap is connected and in good condition.
 - D-rings in good condition.
 - Check speaker, make sure no breaks in the speaker cover.

Good	Description of Problem

- Turn the unit on to check the following electronic issues:**
- On/off switch "clicks" into place and is not too hard or too soft.
 - Unit will go through the self diagnostic check.
 - Verify a display reading of "8.8"
 - Directional lights light up sequentially from left to right.
 - Transmit light flashes.
 - Battery power percentage is shown.
 - Battery power is at least 90 percent.
 - Flashes "nr" (non-revert).
 - Flashes "tr" (transmit) and beeps three times.

Good	Description of Problem

- Test the SE button:**
- 1 Press the SE button: " - - " will appear, then "SE" will appear and the unit will beep three times, release the button.
 - 2 Make sure the button is not too low (hard to engage).
 - 3 Make sure the button is not too high (easy to engage); should have a good mechanical feel to switch to "SE"

Good	Description of Problem

- Test the SP button:**
- 1 Press the SP button and "SP" will appear in the window, unit beeps three times.
 - 2 Make sure the button is not too low (hard to engage).
 - 3 Make sure the button is not too high (easy to engage).
 - 4 "SP" (special mode) should appear in the display.

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Good Description of Problem

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Test Auto-revert Mode:

- 1 Turn off unit.
- 2 Holding SP button down, turn on unit.
- 3 Verify a display reading of "8.8."
- 4 Verify that directional lights illuminate sequentially from left to right.
- 5 Verify that battery level is displayed, and reads at least 90 percent.
- 6 Verify that "Ar" is displayed, indicating auto-revert mode is engaged.
- 7 Verify that "tr" is displayed and the unit beeps three times, indicating transmit mode.

Test #2 Search/Transmit

Place the unit on a table in "tr" mode and pick out a new unit and go through Test #1; if all checks out, move on.

While the new unit is in "SE" mode make sure it picks up signal from the unit on the table.

At a distance of greater than 1 meter from the transmitting unit, slowly rotate the receiving unit and verify that all LED's illuminate (this is where you should hit the SP and check the height of the switch and that "SP" engages).

When finished testing a unit>

1. Press the SE button once to change back to "tr" mode, and place on the table (this is the next unit for transmit test).
2. Pick up the unit that is on the table, turn off and place in "Range Test" bin.
3. Pick a new unit to test and start with Test #1.

Test #3: Range

Perform this test after these units have passed Test #1 and Test #2

1. Place 1 unit at a measured distance of 30 meters. Make sure the Tracker logo on the back of the unit is pointed directly at the receiving beacon.
2. Turn the test unit on, press SE to engage search mode.
"SE" will flash, then a distance will appear in the window.
3. Check that at 30 meters the unit center light engages and the reading is between 28-40 meters.
4. Slowly rotate the unit clockwise and verify that the center left and then far left LED's illuminate.
5. Slowly rotate the unit counterclockwise and verify that the center right and then far right LED's illuminate.
6. Turn the test unit off and place in a "Good" bin. Repeat with next unit