

# 4927-HD3-14

## USER INSTRUCTIONS



Melfred Borzall housings are built to last. They are machined from high quality, 4340 alloy steel and feature contoured pockets to eliminate stress concentrations, reducing the risk of cracking. Our unique lid design allows for larger locking bolts, keeping your investment safe in tough conditions. We've also made our housings easy to use by engraving the direction of drilling and the part number for easy identification. Include the one-of-a-kind super nozzle which sprays in the off of centerline to aid steering and you've got the top of the line. Here at Melfred Borzall, we've thought of everything; so you don't have to.

### Important!

Read and understand the manufacturer's manual(s) for the directional drilling machine, locating equipment and all attachments including additional safety manual(s) provided with this tool.



### Danger!

**Do not use a pipe wrench to remove directly coupled tools.** The rod could rotate causing the device to strike you causing serious injury or death.



### Danger!

**Stay clear of rotating drill stem and tooling.** You can become caught in the rotating drill stem or tooling causing serious injury or death.



### Danger!

**Do not wear loose clothing.** Loose articles of clothing can become tangled around the drill stem or tooling causing serious injury or death.



Call before you dig—dial 811  
(USA only)  
1-888-258-0808  
(USA & Canada)

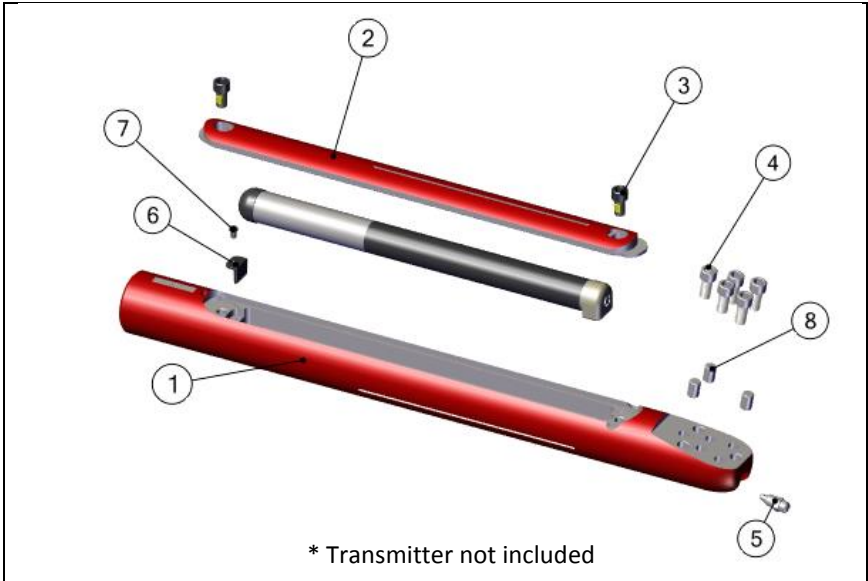
USA: (800) 558-7500

Int'l: (805) 739-0118

**MELFRED  
BORZALL**


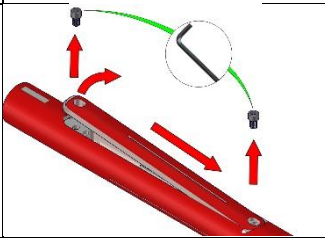

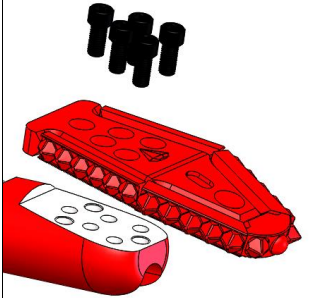
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## In The Box

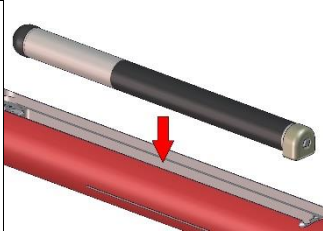
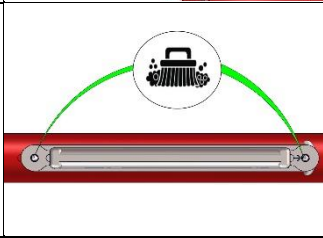
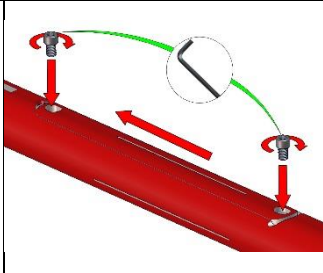
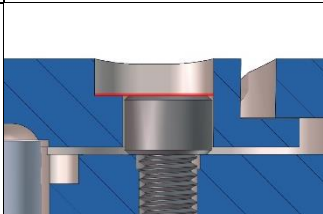


| ID | Part Number     | Description                                      | REQ | SPARE |
|----|-----------------|--|-----|-------|
| 1  | 4925-HD3-14     | Premium Sonde Housing                            | 1   | -     |
| 2  | 3925-HD3-CP     | Sonde Pocket Cover Plate                         | 1   | -     |
| 3  | SHCS12MMx20MM-N | M12x20mm Socket Head Cap Screw with Nylon Patch  | 2   | 2     |
| 4  | SHCS-12MMx25MM  | M12x25mm Socket Head Cap Screw                   | 5   | -     |
| 5  | 1600-1712       | Super Nozzle                                     | 1   | -     |
| 6  | 86BV2-SPACER    | Spacer Block for 86BV2                           | 1   | -     |
| 7  | LHCS-1/4x3/8    | 1/4"-20 x 3/8" Low-Profile Socket Head Cap Screw | 1   | -     |
| 8  | DP-050-075      | Solid Dowel Pin 1/2" dia x 3/4" lg               | 3   | -     |
| -  | AW-10MM         | 10mm Allen Wrench                                | -   | 1     |
| -  | AW-1/8          | 1/8" Allen Wrench                                | -   | 1     |



# USER INSTRUCTIONS

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| <p>1. Lock out the drilling machine, following the manufacturer's instructions, before doing any work to tools or drill stem.</p>  |  A black and white icon of a padlock with a keyhole. A curved arrow above the padlock indicates a clockwise rotation to lock it.   |
| <p>2. Remove the lid bolts. Then remove the lid by sliding it forward and prying up from the back.</p>   |  A diagram showing a red cylindrical lid being removed from a red housing. Red arrows indicate the lid being pushed forward and then pried up from the back. A green line with a circular inset shows a pry bar being used to lift the lid.                                      |
| <p>3a. If the <b>86BV2 transmitter</b> is used, leave the black spacer block installed.</p>  |  A close-up photograph of a black spacer block installed inside a red housing. The block is a rectangular piece with a circular opening in the center.   |
| <p>3b. If the <b>86B transmitter</b> is used, remove the black spacer block by unscrewing the bolt holding it in place.</p>  |   |
| <p>4. Install the directional blade of your choice onto the housing steer face. Tighten each bolt to the recommended torque of 1,400 inch-pounds (165 N-m).</p> <p>See page 6 for instructions on how to use the Pit Bull feature.</p> |  A diagram showing the installation of a directional blade. At the top, four black bolts are shown. Below, a red housing with a white steering face is shown. A red directional blade is being attached to the steering face. The blade has a series of teeth along its length. |

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| <p>5. Install the transmitter so that the flat bottom of the front bumper is down. When properly secured, the sonde will fit snugly and resist rotation within the pocket.</p>   |   |
| <p>6. Ensure that the bolt holes are completely clear of any debris as unclean holes can prevent bolts from properly securing the lid.</p>   |   |
| <p>7. Replace the lid and install the bolts with the provided Allen Wrench. Tighten each bolt to recommended torque of 1,400 inch-pounds (165 N-m).<br/><b>Replace bolts with new after 10 uses.</b></p>   |   |
| <p>8. Ensure that the bolts are properly seated by verifying that the bolt head is level with the machined shelf beside the hole.</p>  |  |
| <p>9. To roll calibrate your 750 transmitter:</p> <ol style="list-style-type: none"><li>Place the housing assembly at the 12:00 position.</li><li>Push and hold the F/A/L/R key and press the depth key for 3 seconds.</li><li>Continue pressing F/A/L/R key and roll will set to 12:00.</li></ol> <p>See tracker manual for more information.</p> |  |

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| <p>10. Begin your bore. Closely monitor sonde temperature to prevent overheating.</p>                             |  |
| <p>11. When the bore is complete, remove the components from the housing body and clean all parts thoroughly.</p> |  |

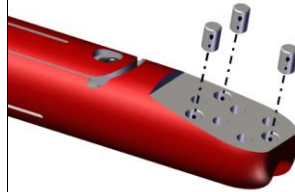
## Pit Bull Feature

Included with your Melfred Borzall housing is the patent pending Pit Bull design feature. This design utilizes solid dowel pins that can be inserted into the housing steer face and used with Melfred Borzall Pit Bull compatible blades (1800 series) that are available in several popular styles. This feature increases the strength of the connection between housing and blade, reducing the likelihood of broken or loosening bolts. The holes in the housing are a tight clearance fit, allowing the pins to be inserted or removed by hand. This allows the Pit Bull feature to be used when needed in harder ground conditions and to be removed when not needed.

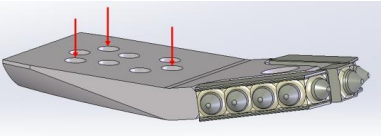
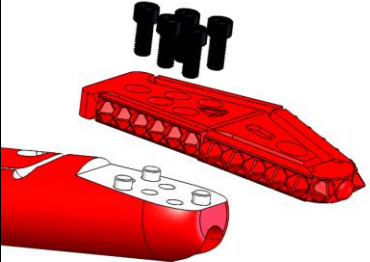

1. Lock out the drilling machine, following the manufacturer's instructions, before doing any work to tools or drill stem.



2. Insert the included dowel pins into the holes in the steering face. The pins should slide in.



# USER INSTRUCTIONS

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| <p>3. Install the Pit Bull compatible blade of your choice onto the housing steer face. Align the holes in the blade with pins inserted in Step 2. The holes in the blade are oversized. The blade should slide easily over the pins.</p> |  |
| <p>4. Tighten each bolt to the recommended torque of 1,800 inch-pounds (200 N-m). Check that blade and steering face are flush to each other.</p>   |  |
| <p>5. When the bore is complete, remove the components from the housing body and clean all parts thoroughly.</p>  |  |