

4627-HT3-13

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.



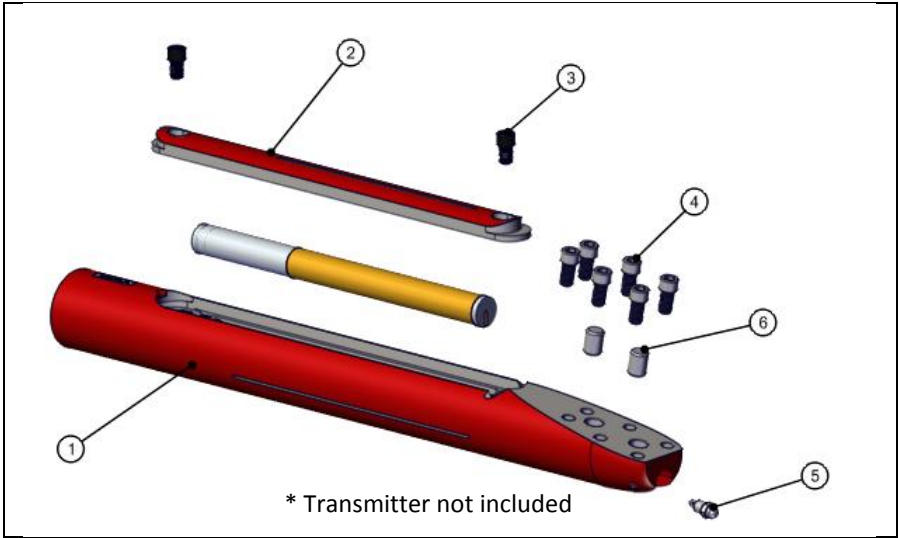
Danger! **Do not wear loose clothing.** Loose articles of clothing can become tangled around the drill stem or tooling causing serious injury or death.



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


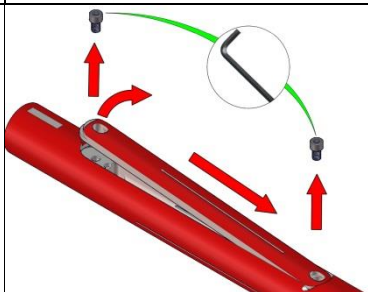
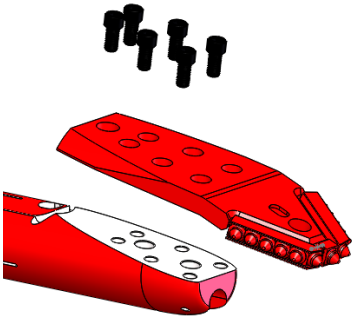

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In The Box

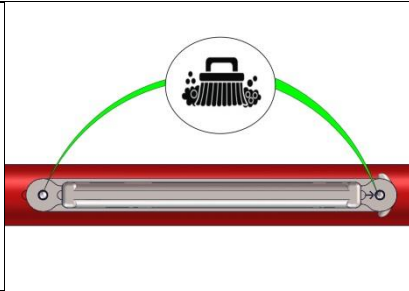
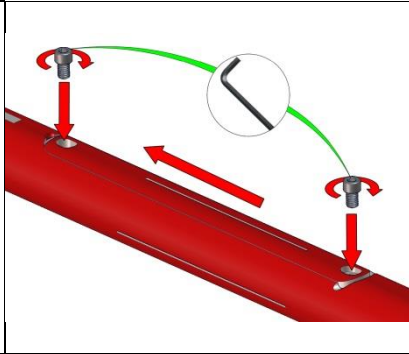
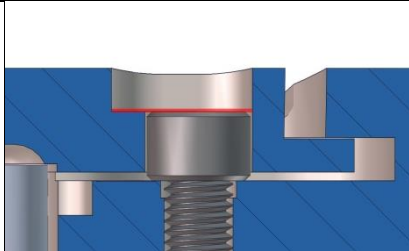




ID	Part Number	Description	REQ	SPARE
1	4627-HT3-13	Premium Sonde Housing	1	-
2	3627-HT3-CP	Sonde Pocket Cover Plate	1	-
3	SHCS1/2x3/4	1/2"-13x3/4" Socket Head Cap Screw with Nylon Patch	2	2
4	SHCS-1/2x1	1/2"-13x1" Socket Head Cap Screw	6	-
5	1600-1712	Super Nozzle	1	-
6	DP-075-100	3/4" Solid Dowel Pin, 1.00" long	2	-
-	AW-3/8	3/8" Allen Wrench	-	1

USER INSTRUCTIONS

<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, and a curved arrow pointing to the left, indicating a lockout procedure.
<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 tool with a lid. A green arrow points to a bolt being removed from the lid. A red arrow points to the lid being slid forward. Another red arrow points to the lid being prying up from the back. A circular inset shows a hex key being used to turn a bolt.
<p>3. Install the directional blade of your choice onto the housing steer face. Tighten each bolt to the recommended torque of 1,800 inch-pounds (200 N-m).</p>	 A diagram showing four black directional blades. Below them is a red housing with a white steering face. The blades are being inserted into the housing. A red arrow points to the blades being inserted into the housing.
<p>Install the transmitter so that the indexing notch in the transmitter seats around the mating tab in the housing pocket. When properly secured, the sonde will resist rotation within the pocket.</p>	 A diagram showing a yellow and white transmitter being inserted into a red housing. A red arrow points to the transmitter being inserted into the housing.


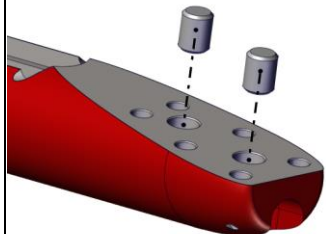
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<p>5. Ensure that the bolt holes are completely clear of any debris as unclean holes can prevent bolts from properly securing the lid.</p>	
<p>6. Replace the lid and install the bolts with the provided Allen Wrench. Tighten each bolt to recommended torque of 1,800 inch-pounds (200 N-m).</p> <p>Replace bolts with new after 10 uses.</p>	
<p>7. Ensure that the bolts are properly seated by verifying that the bolt head is level with the machined shelf beside the hole.</p>	
<p>8. Begin your bore. Closely monitor sonde temperature to prevent overheating.</p>	
<p>9. When the bore is complete, remove the components from the housing body and clean all parts thoroughly.</p>	

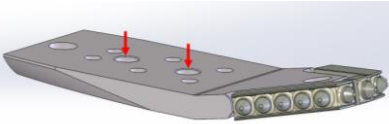
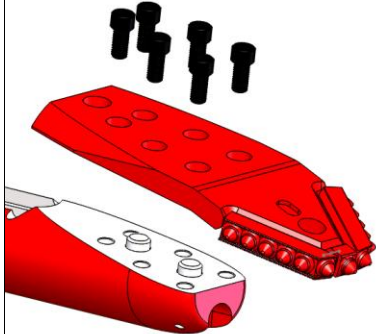
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Pit Bull Feature

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.	

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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>	