



## USER INSTRUCTIONS

Melfred Borzall housings are built to last. They are machined from high quality alloy steel and feature precision machined features for extreme quality. We've also made our housings easy to use by engraving the part number for easy identification. Include the one-of-a-kind super nozzle which sprays in the angle of the steer to aid in cutting 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.

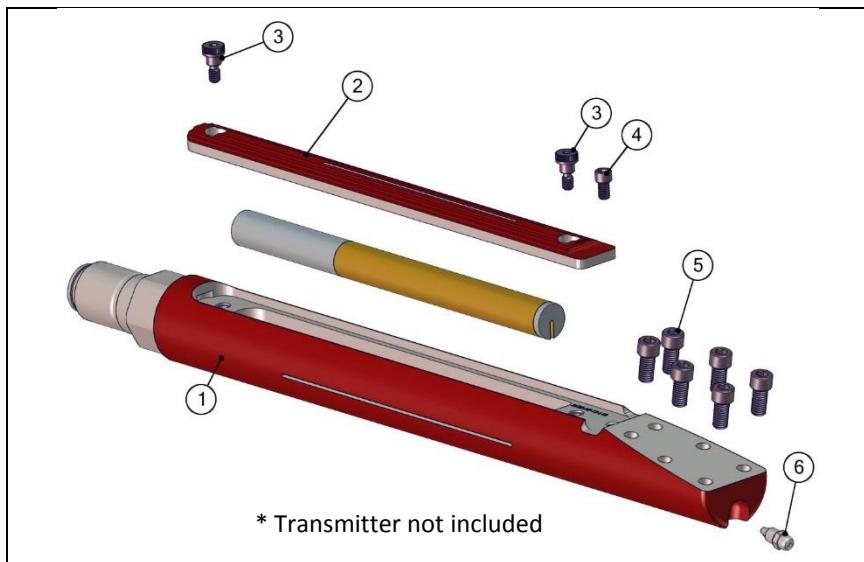


**Danger!** **Do not wear loose clothing.** Loose articles of clothing can become tangled around the drill stem or tooling causing serious injury or death.



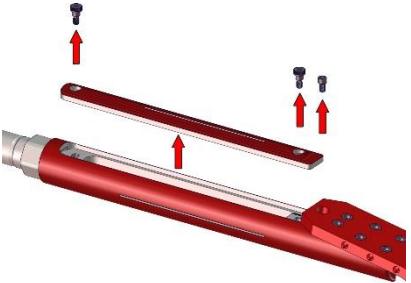
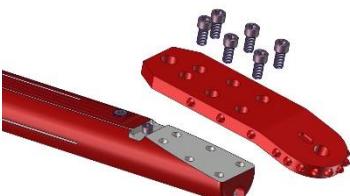
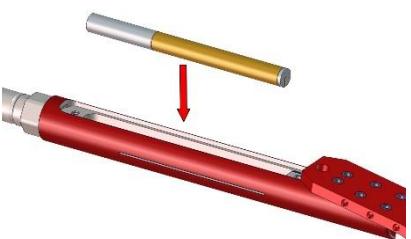
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## In The Box



ID	Part Number	Description	REQ	SPARE
1	2630-HT-13-L43	Standard Sonde Housing	1	-
2	2630-HT-13-CP	Sonde Pocket Cover Plate	1	-
3	SHSS-1/2x3/8-N	1/2" x 3/8" Socket Head Shoulder Screw w/ Nylon	2	2
4	SHCS-3/8x5/8-N	3/8"-16 x 5/8" Socket Head Cap Screw w/ Nylon	1	1
5	SHCS-1/2x1	1/2"-13 x 1" Socket Head Cap Screw	6	-
6	1600-1712	Super Nozzle	1	-

# USER INSTRUCTIONS

1. Lock out the drilling machine, following the manufacturer's instructions, before doing any work to tools or drill stem.	
2. Remove the lid bolts. Then remove the lid by sliding it forward and prying up from the back.	
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) using a 3/8" Allen wrench.	
4. 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.	

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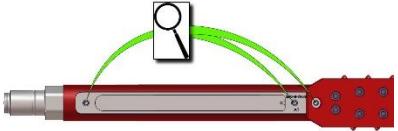
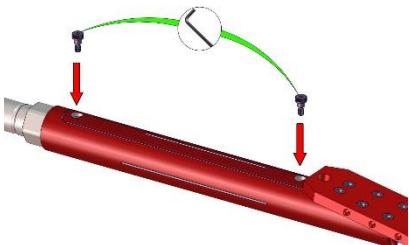
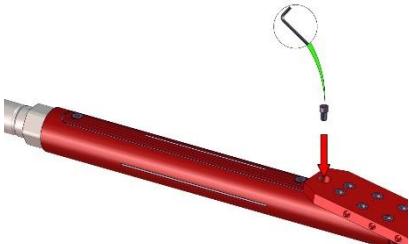
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**MELFRED  
BORZALL**

5. Ensure that the bolt holes are completely clear of any debris as unclean holes can prevent bolts from properly securing the lid.	
6. Replace the lid and install the shoulder bolts. Tighten each bolt to recommended torque of 470 in-lbs (53 N-m) using a 1/4" Allen wrench.  <b>Replace bolts with new after 10 uses or nylon is worn.</b>	
7. Install the locking lid bolt through the access hole in the directional blade. Tighten the bolt to recommended torque of 740 in-lbs (83 N-m) using a 5/16" Allen wrench.  <b>Replace bolts with new after 10 uses or nylon is worn.</b>	
8. Begin your bore. Closely monitor sonde temperature to prevent overheating.	
9. When the bore is complete, remove the components from the housing body and clean all parts thoroughly.	