5747-HU4 (UNIVERSAL)

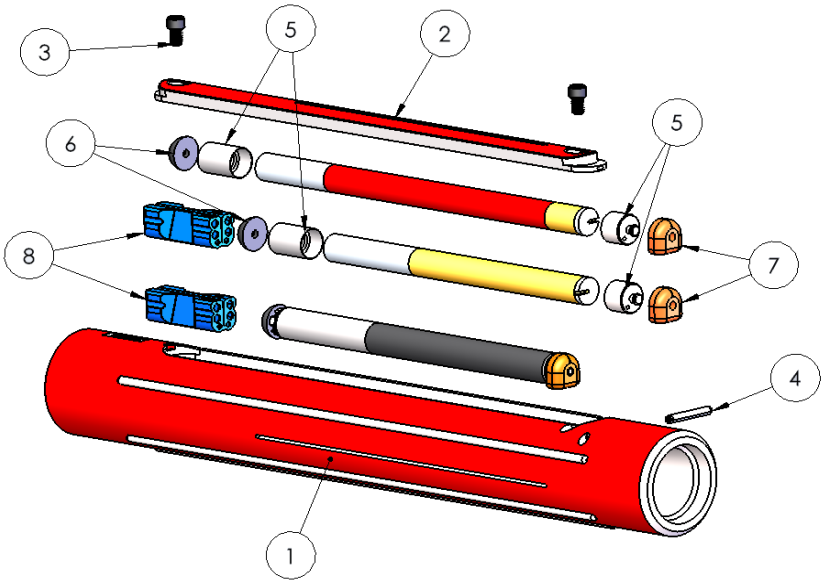
USER INSTRUCTIONS

Melfred Borzall housings are built to last. They are machined from high quality, 4145 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 indexing timer that locks in your clock position, 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)

In The Box



* Transmitters and duplicate adapters shown are not included.

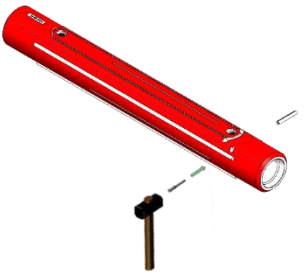
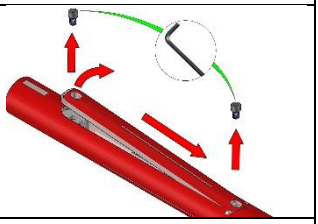
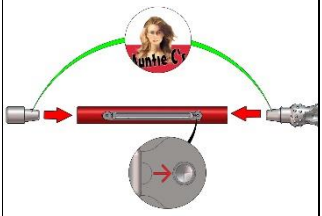
ID	Part Number	Description	REQ	SPARE
1	5747-HU4	Premium Sonde Housing	1	-
2	5742-HU4-CP	Sonde Pocket Cover Plate	1	-
3	SHCS-1/2X3/4	1/2"-13 x 3/4"L Socket Head Cap Screw	2	-
4	CP-038-225-SD	Roll pin, 3/8" dia, 2.25" lg	1	4
5	DWADAP-UNI	4" HOUSING ADAPTER | 15" DIGITRAK TO 17" DW HOUSING	1	-
6	3932-ISOL2	ISOLATOR BLACK	1	-
7	3932-ISOL	ISOLATOR ORANGE	1	
8	5742-SPACER1	UNIVERSAL TRANSMITTER SPACER	1	-
-	AW-3/8	3/8” Allen Wrench	-	1
-	PUNCH-RP-038	PUNCH-RP-038	1	-

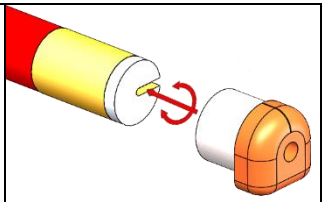
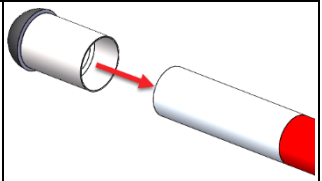
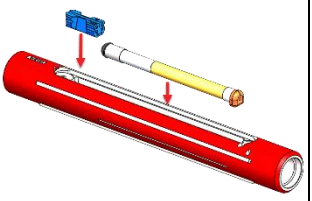
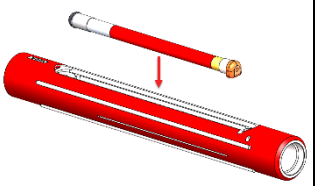
General Precaution

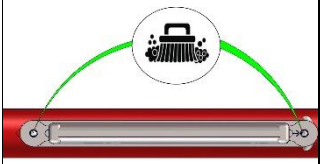
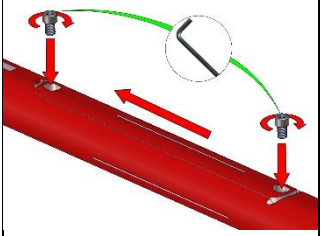
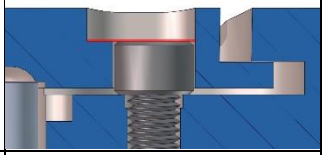
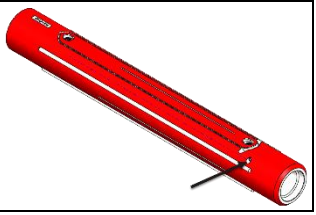
1. Lock out the drilling machine, following the manufacturer’s instructions, before doing any work to tools or drill stem.

Dual Lid Retention

This housing utilizes both bolts and a roll pin as a redundant method of retaining the lid. The bolts do not clamp the lid but prevent it from sliding and uncovering the tabs at either end. The pin also prevents the lid from sliding and uncovering the tabs.

2.	Remove Lid Locking Pin (Item 4) using PUNCH-RP-038 and a hammer to drive the punch. Note: The lid pin hole also serves as a cleanout port to remove any debris that may prevent the lid from sliding forward.	
3.	Remove the lid bolts. Then remove the lid by sliding it forward and prying up from the back.	
4.	Apply anti-seize to threads. Install the drill head onto the front thread (indicated by the engraved arrow) and the removable tailpiece onto the back thread. Ensure that each of the bits are torqued to 2,500 ft-lbs.	
*	**<u>Installing the 15" & 19" Digi Trak / Umag Transmitters</u>** **(Requires Items 5,6,&7)**	

5.	Install the timer assembly onto the front end of the transmitter ensuring that the locating tab is engaged with the notch in the transmitter.	
6.	Install the rear cap spacer on to the rear of the transmitter.	
6.1	**If installing a 15" Transmitter continue to Row 7.** **If installing a 19" Transmitter skip to Row 8.**	
7.	-First install the 15" transmitter assembly into the body pocket with the rounded portions of the timers up and the battery compartment towards the back. -Second Install the spacer into the body pocket. When properly secured, the sonde will fit snugly and resist rotation within the pocket. (Skip to Row 8)	
8.	Install the 19" transmitter assembly into the body pocket with the rounded portions of the timers up and the battery compartment towards the back.	

	When properly secured, the sonde will fit snugly and resist rotation within the pocket.	
9.	Ensure that the bolt holes are completely clear of any debris as unclean holes can prevent bolts from properly securing the lid.	
10.	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). **Replace bolts with new after 10 uses.**	
11.	Ensure that the bolts are properly seated by verifying that the bolt head is level with the machined shelf beside the hole.	
12.	Locate the lid pin hole. It will be just forward of the lid opening, running from the 9 o'clock to 3 o'clock position.	

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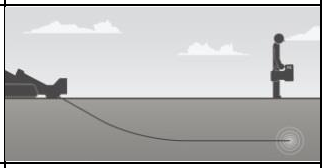
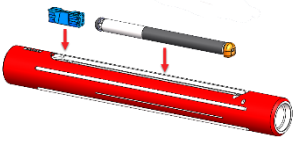
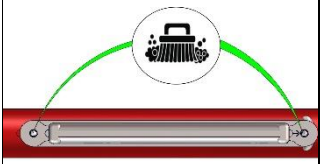
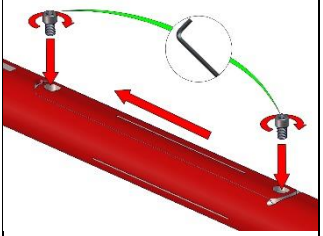
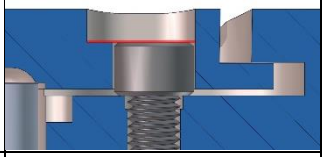
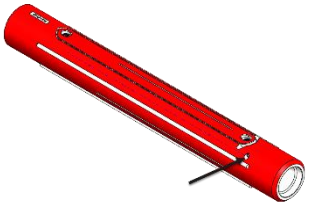
13.	Align the pin with the hole tap pin into place using a hammer and (PUNCH-RP-038) until pin is sub-flush on both ends.	
14.	Begin your bore. Closely monitor sonde temperature to prevent overheating.	
15.	When the bore is complete, remove the components from the housing body and clean all parts thoroughly.	
*	**Installing the Subsite 86BV2 Transmitter** **(Requires Items 8)**	
6.	-First install the transmitter assembly into the body pocket so that the flat bottom of the front bumper is down. -Second Install the spacer (Item 8) into the body pocket.	

	-When properly secured, the sonde will fit snugly and resist rotation within the pocket.	
7.	Ensure that the bolt holes are completely clear of any debris as unclean holes can prevent bolts from properly securing the lid.	
8.	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). **Replace bolts with new after 10 uses.**	
9.	Ensure that the bolts are properly seated by verifying that the bolt head is level with the machined shelf beside the hole.	
10.	Locate the lid pin hole. It will be just forward of the lid opening, running from the 9 o'clock to 3 o'clock position.	

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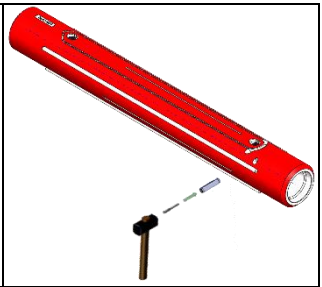
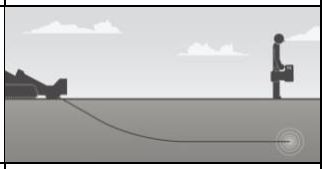
11. Align the pin with the hole tap pin into place using a hammer and (PUNCH-RP-038) until pin is sub-flush on both ends.	
12. Begin your bore. Closely monitor sonde temperature to prevent overheating.	
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