

8500 Tracking System

Operator's Manual



CMW®

Issue 2.0

053-1254

ORIGINAL INSTRUCTION

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Safety Alert Classifications


These classifications and the icons defined on the following pages work together to alert you to situations which could be harmful to you, jobsite bystanders or your equipment. When you see these words and icons in the book or on the unit, carefully read and follow all instructions. **YOUR SAFETY IS AT STAKE.**



Watch for the three safety alert levels: **DANGER**, **WARNING** and **CAUTION**. Learn what each level means.

 **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Watch for two other words: **NOTICE** and **IMPORTANT**.

NOTICE can keep you from doing something that might damage the unit or someone's property. It can also alert you against unsafe practices.

IMPORTANT can help you do a better job or make your job easier in some way.

Radio Options

Description	Notes
Radio power	Turns radio on and off. Available settings: on (default), off.
Channel	Sets telemetry channel Available settings: 1 (default) through 15
OnGrade channel	Sets channel for OnGrade pole communication Available settings: 1 (default) through 3
Tracker Control	Enables or disables thrust and rotation of drilling unit. Available settings: Rig ON, Rig OFF (default).
Tracker Control code	Selects code for Tracker Control feature corresponding to code on display.

System Settings

IMPORTANT: Warning sounds such as beacon temperature alert are always audible.

Description	Notes
Language	Controls user interface language. Turn tracker off and on for language setting to change.
Tracker sleep	Controls tracker sleep feature. Available settings: enabled (default), disabled.
Volume	Controls volume of the signal sound and sound effects. Available settings: mute, low, med, high (default).
Battery status	Displays available battery information. Displays estimated runtime remaining and battery health when using optional Li-ion smart battery pack.

Service Menu

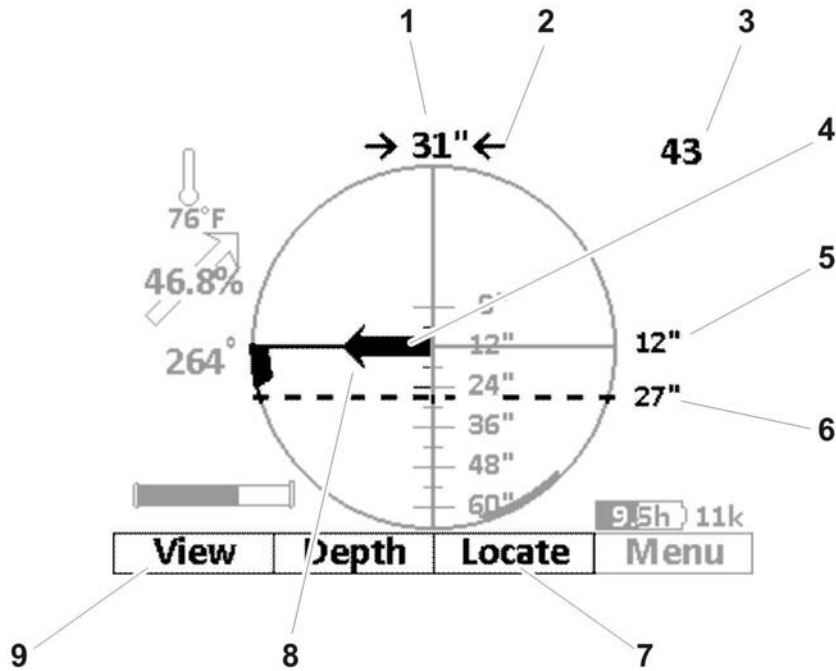
Description	Notes
About	Lists hardware and software versions, serial number, and copyright information.
Uptime	Displays uptime and life timers.
Support	Enters support menu.
Factory	Enters factory menu. Password protected.

System Operation

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Beacon View Screen



- 1. Horizontal distance
- 2. Direction indicator arrows
- 3. Signal strength
- 4. Steering correction arrow
- 5. Projected depth
- 6. Current depth
- 7. Locate mode button
- 8. Current depth indicator
- 9. View button

1. Horizontal distance	Displays distance from beacon to tracker.	
2. Direction indicator arrows	Indicates beacon direction relative to the tracker.	Inward arrows mean the beacon is approaching tracker and outward arrows mean beacon is moving away.
3. Signal strength	Displays numeric signal strength value.	
4. Steering correction arrow	Represents the direction of steering correction needed.	
5. Projected depth	Displays the projected depth when beacon reaches tracker if current pitch is maintained.	
6. Current depth	Displays current depth of beacon relative to tracker position.	

Message	Description	Solution
No Comm	Beacon signal is too weak to communicate with tracker.	<ol style="list-style-type: none"> 1. Ensure beacon and tracker are operating at same frequency. 2. Move tracker within range of beacon. 3. Ensure beacon is not asleep.
Out of Range	Beacon is out of range for requested features. Beacon must be within within 30' (9 m) of tracker for advanced features.	Move tracker within 30' (9 m) of beacon.
TRACKER BATT LOW	Tracker batteries are low and unit will soon shut off.	Replace tracker batteries.
F/A Align	Tracker is too far out of the beacon plane to enable advanced depth features while in depth screen.	Use fore/aft arrows to move within beacon plane.
Beacon Rolling...	Beacon is rolling.	Stop rolling beacon for more accurate readings.
BEACON MEM ERROR	Calibration memory of beacon has been corrupted.	Return beacon for service.
BEACON HOT	Beacon is reporting temperature above 155°F (68°C). Permanent damage is imminent. An audible alert will also sound.	Stop rotation, pull back 3' (915 mm) and continue drilling fluid flow until beacon cools down.
HIGH NOISE	The signal-to-noise ratio is too low for tracker to receive reliable data from beacon. Depth calculation and beacon calibration are disabled.	Eliminate noise source or switch beacon and tracker operating frequencies.



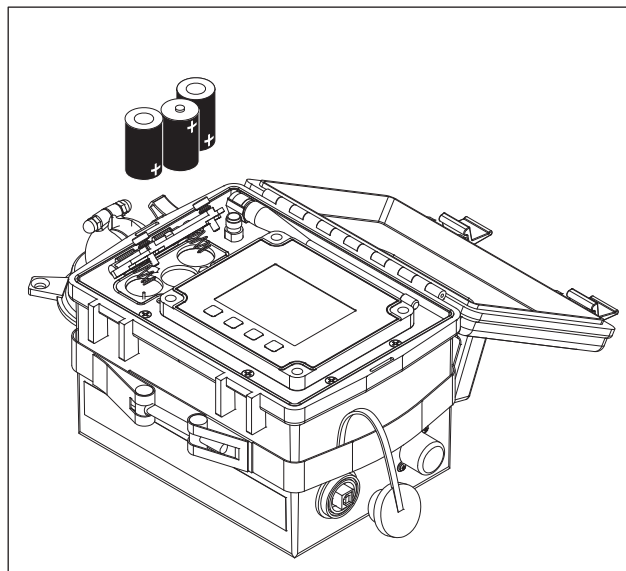
Display (in Case)

Change Batteries

IMPORTANT: Do not mix new and used batteries. Do not mix battery brands.

Use 6 C-cell alkaline batteries in cased display.

1. Open battery cover.
2. Insert batteries as shown.
3. Close and tighten battery cover.
4. Check operation.



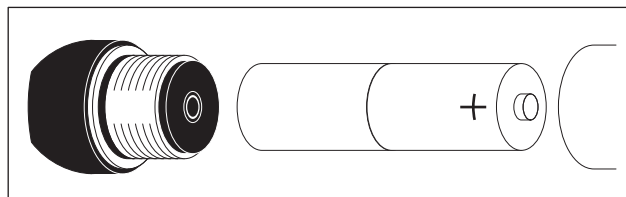
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Beacon

Change Battery

Use one lithium or one Power Stick battery in beacon.

1. Remove battery cap.
2. Insert battery as shown.
3. Install and tighten battery cap.
4. Check operation.



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