

**BJE®**

Model 10856 & 10857 Recommended Installation, Maintenance and Inspection Instructions

**CTS TANK
ALARM**

CTS TANK ALARM

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN A READILY ACCESSIBLE LOCATION.



WARNING Never use with gasoline or highly flammable liquids. Not to be used with any other gauge or monitor

Note: This is a Class A ITE device which is intended primarily for use in an environment where the use of broadcast radio and television receivers may be expected within a distance of 10 m. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: This device shall be installed greater than 8" (20 cm) from contact with people.
Remarque: Cet appareil doit être installé plus de 8" (20 cm) entre le contact avec les gens.

Note: This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Remarque: Cet appareil est conforme aux normes Industry Canada exemptes de licence RSS standard(s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable.

Note: The tank sensor will measure tank depths from 8" to 300" (20 cm to 760 cm) high.

INSTALLATION INSTRUCTIONS

1. Component Installation

CTS Sonic Tank Alarm Sensor

Mount the sensor into the 2" NPT tank bung hand tight - do not overtighten. Do not use thread lock adhesive as this may damage the Tank Alarm Sensor. The CTS Sensor must be mounted within 2 degrees from perpendicular to the surface of the fluid. A level that measures degrees should be used. Place the level on the top of the pipe fitting on the tank. If outside the 2 degree specification, the fitting should be changed. Husky® recommends that the height of the tank fitting should not exceed 1/2" (1.27 cm). Also, the taller the tank, the more critical the 2 degrees become.

Note: The CTS Sonic Tank Alarm Sensor will not read properly if:

CTS Sensor is tilted more than 2 degree from the surface of the tank liquid.

CTS Sensor is mounted next to the tank wall or in a corner.

If there is any structural bracing or obstruction between the CTS Sensor and the surface of fluid in tank.

Note: Do not install the CTS Sensor in the tank's fill port. Repeated removal of the CTS sensor will damage the unit and void the warranty.

Plug the transformer into a non-switched 24 hour hot 115v outlet.

CTS Sonic Tank Alarm Receiver

Securely (not permanently) mount receiver to wall within 30 feet (9.1m) of alarm sensor. Plug the transformer into a non-switched 24 hour hot 115v outlet. Remove protective coating over display.

2. Programming the receiver

The receiver will ask to choose display unit. Press "ok" for English. Press "exit" for metric. The receiver will recognize an operating sensor signal and ask to add to receiver. Press "ok" for yes. Press "exit" for no. *Enter personal tank name. Choose 10 characters from letter, numbers, or spaces. Press "ok" after each selection. Enter tank depth. Choose depth from 8" to 300" (20 cm to 760 cm). Press "ok" after each selection. Select alarm type. Scroll down to settings both, high, or low and press "ok."

Note: If the alarm setting is to be changed, complete the tank programming and erase the tank information under section 4 and repeat entering personal tank name under section 2.

The receiver will display tank label, level and percentage.

Note: The receiver will continue to search for operating tank sensor signals and ask to add to display until all sensors are added or the tank sensor search mode is turned off.

3. Alarm mode.

If tank depth is greater than 78 in (199 cm) and fluid level percentage is greater than 90 or less than 11, then the siren will sound and display will flash red. If tank depth is greater than 78 in (199 cm) and fluid level percentage is greater than 87 or less than 13, then the display will flash red at 30 second intervals.

If tank depth is less than 79 in (200 cm) and fluid level percentage is greater than 75 or less than 11, then the siren will sound and display will flash red.

If tank depth is less than 79 in (200 cm) and fluid level percentage is greater than 72 or less than 13, then the display will flash red at 30 second intervals.

To silence the siren, press the "ok" button and the siren will silence. The display will continue to flash red until the tank level is within the above ranges.

4. To change settings:

Press "exit" turn to function menu. The menu screen will display receiver firmware version, tank, units, display search and channel. Scroll up or down to the appropriate function using the "up" or "down" arrows and press "ok". To erase tank information, press "ok" on tank menu. Scroll down to desired tank using the "down" arrow and press "ok". The receiver will ask to "erase tank selection". Press "ok" to erase. Pressing "exit" will reset tank depth. The receiver will ask to choose display units. Press "ok" for English. Press "exit" for metric. Press "exit" to return to function menu. Press "exit" again to return to tank level display.

Note: If the tank data is accidentally erased and the tank sensor is still operating, the receiver will detect the signal and will ask if you want to add the tank. Follow the add tank procedure.

To change display units, scroll down to units feature using "down" arrow and press "ok". Press "ok" for English. Press "exit" for metric. Press "exit" to return to main menu. Press "exit" again to return to tank level display. To change tanks displayed scroll down to display feature using "down" arrow and press "ok". Scroll down to desired tank using "down" arrows and press "ok". Press "ok" to turn off tank display. Press "exit" to return to function menu. Press "exit" again to return to tank level display.

Note: Tank information is not erased and can be redisplayed.

To search for new tank signals, scroll down to search function using "down" arrows and press "ok". Press "ok" for yes. Press "exit" for no. The receiver will recognize an operating sensor signal and ask to add to display. Follow the tank display procedure as outlined above. Press "exit" again to return to tank level display.

Note: After 5 seconds, the receiver will return to the function menu.

To change wireless channels, scroll down to channel feature using "down" arrows and press "ok". Scroll down to channels 0, 1, or 2 and press "ok". Press "exit" to return to main menu. Press "exit" to return to tank level display. To display tank sensor firmware version, scroll down to tank feature using "down" arrows and press "ok". The receiver will display tank sensor version. Press "exit" to return to tank level display.

5. If power is interrupted on a sonic sensor, the receiver will search 10 seconds for the sensor signal. If it cannot find the sensor, "???" will be displayed for the lost tank signal. The display flash blue at 30 second intervals. When the power is restored, the sensor will re-evaluate the tank level, transmit a signal, the receiver will recognize the signal and display the updated tank level.

6. If power is interrupted on the receiver display, the display will become blank. When power is restored, the receiver will ask to recall stored data. Press "ok" for yes. Press "exit" for no. Pressing exit will erase all tank data and it will have to be re-entered.

Note: If no action is taken the display will automatically retrieve stored tank level data.

7. To illuminate display, press any arrow key. Display will illuminate for 10 seconds.

 **ALWAYS ADHERE TO INSTALLATION / USAGE INSTRUCTIONS AND WARNINGS.** 
Improper use may result in injury, damage, or hazardous spill.



GENERAL WARNINGS / INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:



- Use of equipment is at individuals' own risk.
- Always abide and adhere to city, state, and federal regulations regarding use and installation of monitoring equipment.



- Always follow the product manufacturer's installation and maintenance instructions.
- Always turn off all power to controller during maintenance activities.



- Always replace or remove from service damaged equipment immediately.
- Always report leaks / spills / accidents to appropriate authorities.



- Always wear appropriate safety equipment during maintenance and inspection activities.



- Always have appropriate fire extinguishing equipment within 5 ft / 1.5 m of tanks.

- Always use appropriate thread sealant.



- The tank contents are the sole responsibility of the tank owner.



- Never allow waste product to touch eyes or skin.



- Never use on below ground storage tanks.

- Never solely rely on this product; there is no substitute for human supervision.

- Never to be used as a component of any automatically controlled pump transfer system.



Proposition

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WARNING: The Materials Used As Colored Decorations On The Exterior Of This Product Contain Lead And/Or Cadmium, Chemicals Known To The State Of California To Cause Birth Defects Or Other Reproductive Harm.

CAUTION: DO NOT EXCEED THE MAXIMUM MILLIAMP LOAD!

Designed to drive up to 1000 milliamps of optional accessories.

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WARRANTY

Husky Corporation will, at its option, repair, replace, or credit the purchase price of any BJE® now part of Husky®, product deemed to be defective in material and/or workmanship for a period of one (1) year.

Buyer must return the products to Husky, transportation charges prepaid. The warranty excludes damages due to malfunction, failure to follow manufacturer's installation, operation or maintenance instructions and guidelines, unauthorized modifications or alterations, abuse, or misuse.

The warranty provisions contained herein apply only to original purchasers who use the equipment for commercial or industrial purposes. There are not other warranties of merchantability, fitness for a particular purpose, or otherwise, and any other such warranties are hereby specifically disclaimed.

Husky assumes no liability for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. Husky is not responsible for any losses (including loss of profits or revenues) incurred by the purchaser during the time necessary to repair the equipment. Husky assumes no liability for any incidental, consequential, or other damages under any warranty, express or implied, and all such liability is hereby expressly excluded.

Husky reserves the right to change or improve the design of any Husky Oil Filter Crushers, Tank Monitors, Tank Gauges, Overfill Alarms, Overfill Accessories, Air Shut-off Valves, Solenoid Valves, and Electronic Drain Valves without assuming any obligations to modify any Husky Oil Filter Crushers, Tank Monitors, Tank Gauges, Overfill Alarms, Overfill Accessories, Air Shut-off Valves, Solenoid Valves, and Electronic Drain Valves previously manufactured.

TESTING / MAINTENANCE / INSPECTION



Daily

- Confirm the AC power indicator is lit.



Monthly

- Confirm all wires are properly connected to receiver and sensor.

- Follow all city, state, or federal wiring code requirements as appropriate.

- Apply city, state, or federal testing regulations as appropriate.

ANY TEST / INSPECTION FAILURE REQUIRES IMMEDIATE EQUIPMENT REPLACEMENT OR REMOVAL FROM SERVICE.

MADE IN THE USA

TROUBLESHOOTING GUIDE

Alarm won't shut off...

1. Verify all wires are connected correctly.

System won't go into alarm mode...

1. Confirm power supply is plugged in.

Brand new receiver's display is very dim...

1. Remove protective display coating shipped with receiver.

Receiver displays ??? on tank depth and percentage....

1. Confirm display is within 30 ft (9.1m) of sensor.
2. Confirm sensor is plugged in.
3. Confirm there is no RF interference.

Display measurements are inaccurate...

1. Confirm tank depth is entered correctly.
2. Confirm sensor is perpendicular to top of fluid.
3. Confirm there is no inside tank obstruction.

Display won't go into alarm mode...

1. Confirm "both", "high", or "low" alarm mode is properly selected.

GENERAL TECHNICAL DATA

Applications

Single or double walled above ground tanks.

Fluids

Test and warranty for oil, waste oil, diesel fuel, antifreeze, water, non food grade and other non-volatile fluids

Milliamp load

750 mA maximum / 1000 mA maximum of optional accessories

Shipping Weight

4.0 lbs / 1.8 kg

Thread

2" / 50.8 mm NPT

Listings

 (sensor and transformer)

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