

**BJE®**

007575, 008295, 010303, 010304, 010305, & 010306
Recommended Installation, Maintenance
and Inspection Instructions

MONITOR

007 Tank Monitor

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



WARNING Never use with gasoline or highly flammable liquids.

Note: 010303, 010304, 010305, & 010306 are not recommended for liquids with a specific gravity less than .85.

INSTALLATION INSTRUCTIONS

1. Locate the most visible location to install control panel.
2. Securely (not permanently) mount control panel to wall.
3. Connect the remote tank sensor:

Waste Product Applications - (High Level Alarm)

- Thread sensor wires through the ½" to ¾" (12.7 mm to 3.17 mm) NPT PVC adaptor.
- Attach sensor to adaptor - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Thread sensor wires through ½" x 6" (12.7 mm x 152.4 mm) NPT PVC pipe.
- Attach pipe to adaptor - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Thread sensor wires through housing base.
- Attach pipe to housing base - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Connect sensor leads to an ohmmeter and confirm circuit is broken when float is raised, if not: remove retaining clip from float - reverse the direction of the float - reinstall retaining clip.
- Use appropriate thread sealant on male threads of sensor housing.
- Tighten sensor housing to tank bung - approximately 1 to 2 turns past hand tight - do not overtighten.
- Thread wires from printed circuit board through the hole in the side of the sensor housing and secure.
- Solder (or wire nut) float leads then tape the connections.
- Seal hole with silicone or appropriate sealant.
- Connect wires to printed circuit board terminals marked "N/C SENSOR IN".

Bulk Product Applications - (Low Level Alarm)

- Discard factory supplied pipe and replace with custom pipe (maximum length 10 ft / 3 m).
- Thread sensor wires through the ½" to ¾" (12.7 mm to 3.17 mm) NPT PVC adaptor.
- Attach sensor to adaptor - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Thread sensor wire through pipe.
- Attach pipe to adaptor - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Thread sensor wires through housing base.
- Attach pipe to housing base - tighten approximately 1 to 2 turns past hand tight. Do not overtighten.
- Remove retaining clip from float.
- Reverse the direction of the float.
- Reinstall retaining clip.
- Connect sensor leads to an ohmmeter and assure circuit is broken when float is lowered.
- Use appropriate thread sealant on male threads of sensor housing.
- Tighten sensor housing to tank bung - approximately 1 to 2 turns past hand tight - do not overtighten.
- Thread wires from circuit board through the hole in the side of the sensor housing and secure.
- Solder (or wire nut) float leads then tape the connections.
- Seal hole with silicone or appropriate sealant.
- Connect wires to printed circuit board terminals marked "N/C SENSOR IN".

4. Select a non-switched 24-hour hot 115v outlet, preferably dedicated solely for use with the 007.
5. Connect transformer wires to printed circuit board terminal marked "12VDC POWER IN".
6. Test control panel to confirm audible siren sounds and strobe light flashes.

Do not plug in the transformer prior to connecting wires to control panel.

Only use BJE® brand transformer with 007 Tank Monitors.

**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:**

- 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 monitor 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 install monitors outdoors without proper protection from the elements.



- Never use on below ground storage tanks.



- Never exceed the maximum milliamps specified in manufacturer's installation and maintenance instructions.



- 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.
- Confirm Siren toggle switch is in the "ON" position.
- Confirm audible siren sounds.
- Confirm strobe light flashes.



Monthly

- Remove sensor from tank and manually raise / lower float to verify system goes into alarm mode.
- Manually test all accessories for proper function.
- Confirm all wires are properly connected to control panel and accessories.

- 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 float is in the correct orientation.
2. Confirm transformer is plugged in.

Audible alarm won't sound...

1. Confirm toggle switch is in "ON" position.

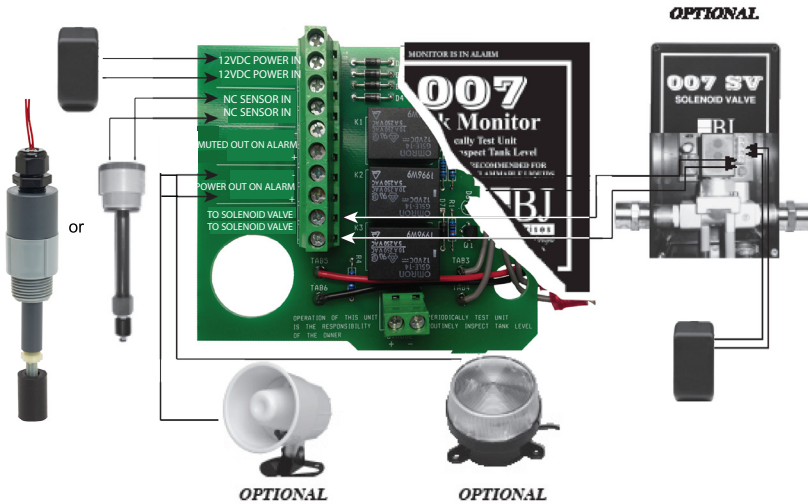
GENERAL TECHNICAL DATA

Applications	Single or double walled above ground tanks.
Fluids	Test and warranty for oil, waste oil, diesel fuel, antifreeze, water and other non-volatile fluids
Milliamp load	750 mA maximum / 1000 mA maximum of optional accessories
Pipe	½" x 6" NPT PVC
Sensor	Buna
Shipping Weight	3.4 lbs / 1.5 kg
Thread	2" / 50.8 mm NPT
Case Quantity	10

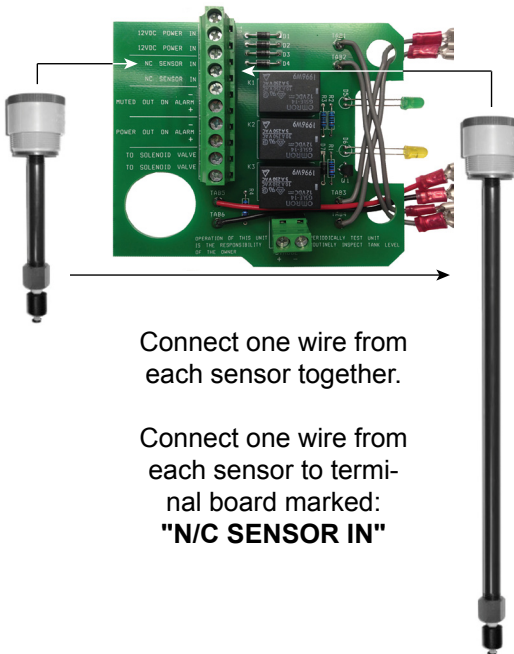
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WIRING CONNECTIONS

Use 18-gauge / 2 conductor wire up to 150 ft. (45.7 m) or
14 gauge / 2 conductor wire up to 350 ft. (106.6 m) to connect all components.



**This example shows 2 remote sensors or
Main sensor and 1 interstitial sensor.**



Connect one wire from
each sensor together.

Connect one wire from
each sensor to termi-
nal board marked:
"N/C SENSOR IN"

This type of connection is referred to as "Series"

007 REMOTE JARHEAD SENSOR

Model 007936

1. Assemble gauge (do not install to tank).
2. Loosen thumbscrews on sensor
3. Slide sensor to desired depth (high or low).
4. Connect an ohmmeter to sensor leads.
5. Slowly move float arm up and down to assure circuit is broken at desired level.
6. Once proper setting is achieved, lock sensor in place using thumbscrews - tighten firmly, approximately 1 to 2 turns past hand tight, but do not overtighten.
7. Remove glass jar and linkage assembly from bung adaptor - do not disturb sensor setting.
8. Use appropriate sealant on male threads of bung adaptor.
9. Screw bung adaptor into tank bung opening - tighten firmly, approximately 1 or 2 turns past hand tight, but do not overtighten.
10. Install linkage assembly into bung adaptor. Float arm must travel freely and not contact any baffles or the sides of tank (use groove on top of assembly as a guide).
11. Reinstall glass jar - tighten firmly, approximately 1 or 2 turns past hand tight, but do not overtighten.
12. Solder (or wire nut) sensor leads then tape the connections.
13. Seal hole with silicone or appropriate sealant.
14. Connect wire to printed circuit board terminals marked "N/C SENSOR IN".

007 REMOTE LEAK / OVERFILL GUARDS

Model 007655, 007656 Leak Guards

007742, 007743, Overfill Guards

1. Remove eyelet connector from end of chain and save.
2. Determine tank depth in inches.
3. Stand float on end on a flat work surface alongside a measuring tape and pull chain taut to desired measurement.
4. Cut chain on mark and feed chain through bottom center hole in shaft and back out of either hole on sides of shaft.
5. Secure chain with eyelet by crimping eyelet closed.
6. Loosen thumbscrews on sensor.
7. Slide sensor, positioning arrow just inside top of clear window.
8. Connect an ohmmeter to sensor leads.
9. Using chain, pull orange indicator to bottom of gauge and confirm circuit is closed.
10. Slowly release chain tension allowing spring to raise orange indicator to its full extension.
11. Confirm circuit is now open.
12. Tighten thumbscrews firmly, approximately 1 to 2 turns past hand tight - do no overtighten.
13. Apply appropriate sealant to male threads of bung adaptor.
14. Slowly lower weighted float into tank and tighten gauge, approximately 1 to 2 turns past hand tight. Do not overtighten.
15. Confirm orange indicator at proper level - if tank is empty it should not be visible. (If visible, remove sight glass and depress orange indicator. Reinstall sight glass. If orange indicator is still visible, recheck measurements in steps 2 - 4 and shorten chain as required.)
16. Solder (or wire nut) sensor leads then tape the connections.
17. Seal hole with silicone or appropriate sealant.
18. Connect wire to printed circuit board terminals marked "N/C SENSOR IN".

007SV / 007SVT SOLENOID VALVE

Model 007580, 007570

1. Mount solenoid valve and plumb air supply observing airflow direction and assuring air line is free of debris. Caution - use backup wrench.
2. Connect terminals marked "From 007" on the solenoid valve to terminals marked "TO SOLENOID VALVE" on the printed circuit board.
3. Connect supplied transformer to terminals marked "12VDC POWER IN" on the solenoid valve. (Observation of polarity is not necessary.)
4. Plug transformer into a non-switched 24-hour hot 115v.
5. Test solenoid valve for proper air shut off.

007 SPDT POWER RELAY

Model 007645

1. Install power relay in proper enclosure for application.
2. Connect terminals marked 1 & 2 on the power relay to terminals marked "TO SOLENOID VALVE" on the printed circuit board. (Observation of polarity is not necessary.)

007 REMOTE STROBE LIGHT

Model 007695

1. Connect strobe leads to terminals marked "POWER OUT ON ALARM" on the printed circuit board.
 2. Connect red lead to (+) terminal and black lead to (-) terminal.
 3. Polarity must be observed.
- NOTE: For indoor or outdoor use.

007 REMOTE SIREN

Model 007690

1. Connect siren leads to terminals marked "MUTED OUT ON ALARM" on the printed circuit board.
 2. Connect red lead to (+) terminal and black lead to (-) terminal.
 3. Polarity must be observed.
- NOTE: If mounting outdoors, angle siren down to shed water.

007 REMOTE 55 GALLON DRUM SENSOR

Model 009502, 009503, 009980, 010000

1. Tighten sensor housing to drum 3/4 NPT vent bung - approximately 1 to 2 turns past hand tight. Do not overtighten.
2. Thread alarm wires through hole of the sensor housing and secure.
3. Connect wires to printed circuit board terminals marked "FLOAT".