

**BJE**<sup>®</sup>

014509

Recommended Installation, Maintenance  
and Inspection Instructions**MONITOR****MK6 Tank Monitor****IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION.****WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**WARNING** Never use with gasoline or highly flammable liquids.**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 1/2" to 1/8" (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 1/2" 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 "SENS1".
  - Flip the tank control switch marked 1 to 'ON'.
  - Repeat this process for each tank to be monitored, proceeding to SENS2 and switch 2, etc.For Bulk Product Applications - (Low Level Alarm)
  - As above, but first do the following:
    - Discard factory supplied pipe and replace with custom pipe (maximum length 10 ft / 3 m).
    - Remove retaining clip from float.
    - Reverse the direction of the float.
    - Reinstall retaining clip.
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<sup>®</sup> brand transformer with MK6 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.

## 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 circuits in use are lit green
- Confirm Siren toggle switch is in the "ON" position.
- Confirm audible siren sounds.
- Confirm strobe light flashes.



### Monthly

- Remove sensors from tanks 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.

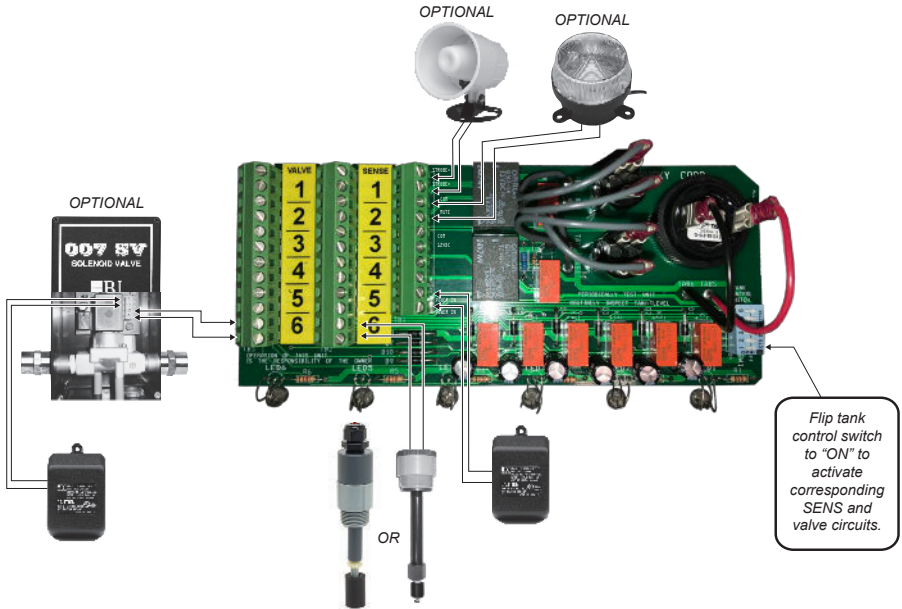
## GENERAL TECHNICAL DATA

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

**IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION.**

# 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.



## 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 "SENS".

## 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 not 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 "SENS"

## 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 "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. (VALVE 1 should shut off when SENS1 enters alarm. VALVE 2 should similarly correspond to SENS2, ect.)

## 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 "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 white lead to (-) terminal.
  3. For steady siren, connect yellow lead to (+) terminal. For yelp tone connect red lead to (+) terminal.
- 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 "SENS".