



# THERMO KING KIT

40-1032

**Subject:** Side Mount FuelWatch Indicator Kit

**Purpose:** Provides remote indication of fuel level

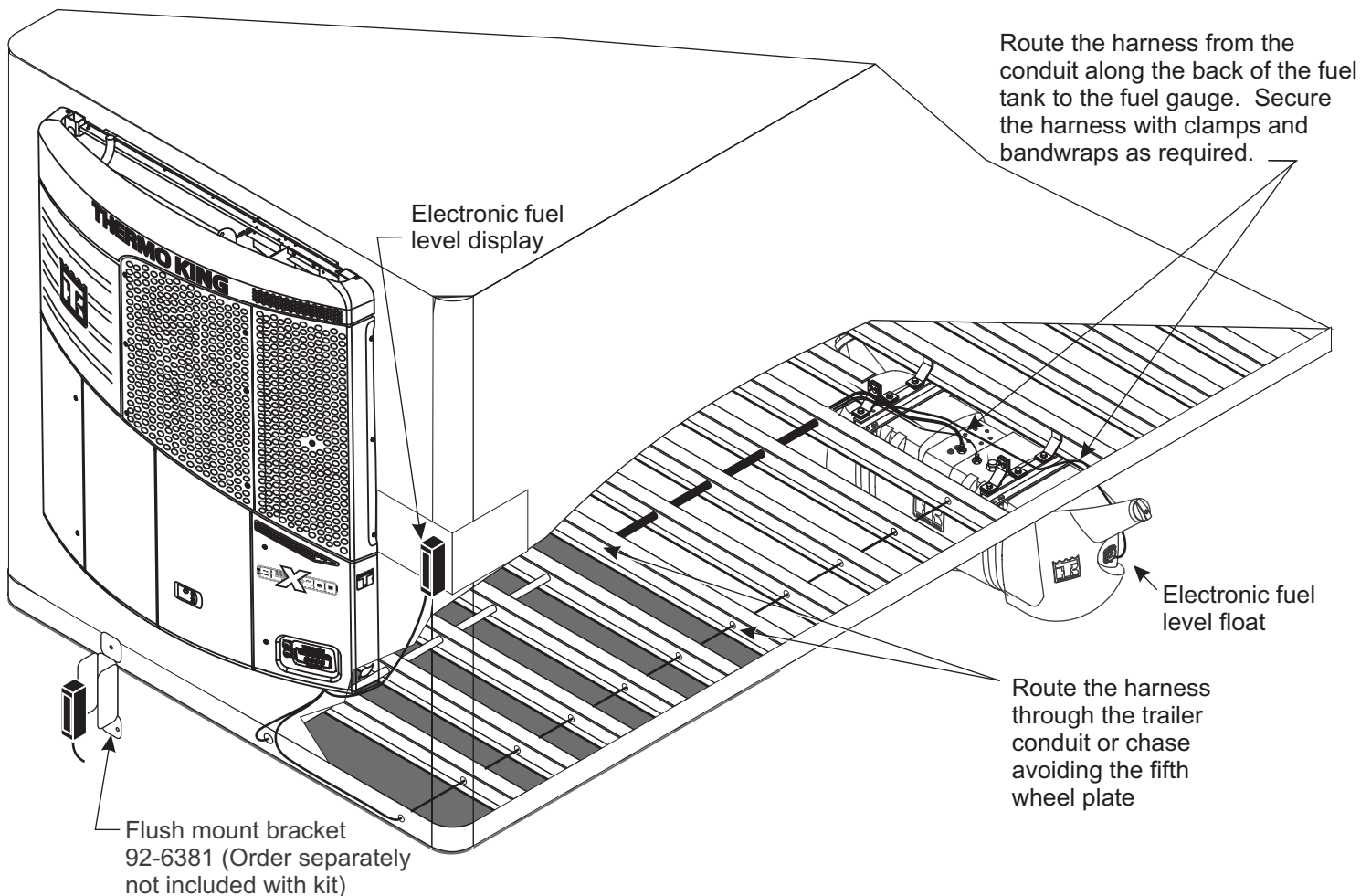
**Note:** The Fuel Watch system is protected with a 1 amp fuse (41-1932).

## OPERATION:

- I With a full tank all LED lights are on.
- I As the fuel level goes below 1/4, only the top row (2 LED lights) and the three bottom rows of LED lights are on and the white (signal) wire is energized.
- I With an empty tank and power applied, all LED light are off except for the top row (2 LED lights) and bottom row which are always on.

**NOTE:** For flush mount applications, order bracket 92-6381

**NOTE2:** This Kit does not include the electronic fuel sensor, it needs to be bought separately.  
- To use with the TK 230 Ltr. Polyethylene tank - Sensor 130-794  
- To use with the Schmitz plastic tank - Sensor 131-001



**NOTE 3:** The fuel Watch system is not compatible with kit 10-414 (connection to SR-2)

**Installation:**

1. Turn off the unit, drain the fuel tank and remove existing fuel level gage.
2. Install the electronic fuel level gauge.
3. Attach the bracket and indicator assembly to the front of the trailer so it is visible from the ground. Install the fuel level nameplate on bracket next to the indicator.
4. Route the harness into the control box, bandwrap the fuse in an accessibly location in the box, clamp as required.
5. Attach wires (see page 3):

**Red (+)** = attach to #8 terminal (the display will be on when the unit switch is on)

**Black (-)** = attach to ground

**White** = Optional connection for items such as low level alarm, signal light, etc.

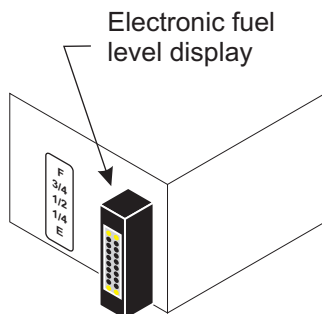
6. Route the gauge harness from the unit control box to the fuel tank using the trailer harness conduit or chase to avoid the fifth wheel plate area and protect it from road debris.
7. Protect the gauge harness with split tubing between the fuel tank mounting brackets and the fuel gauge. A length of copper tube may be used between the mounting bracket and the gauge to support the harness.
8. Splice the fuel gauge harness to the fuel gauge leads with two splice connector 41-754. Fuel gauge wires are not polarity sensitive.
9. With fuel tank empty, the electronic fuel level gauge should show 0% and the fuel tank gauge should show E (Empty). While filling the tank with fuel, compare the fuel level display on the controller with the gauge on the fuel tank. Check for leaks, and return unit to service.



Use split sleeving to protect the harness

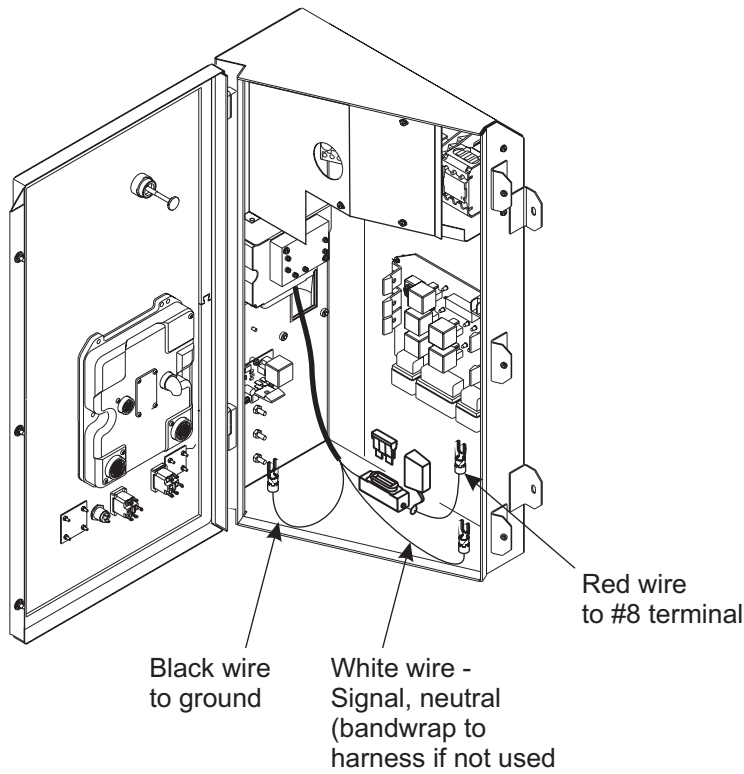


Route harness along the support and bandwrap



Use split sleeving to protect the harness

Clamp the harness at the gauge, seal the split sleeving with silicone sealant.



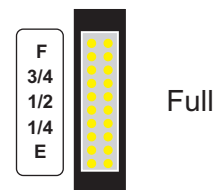
**Wiring for FuelWatch Indicator Light**

- Black** = Ground
- Red** = Positive (power when unit is running)
- White** = Signal, neutral (becomes a ground when fuel level goes below 1/4)

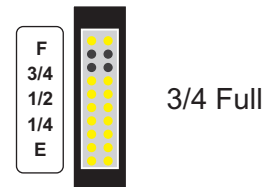
**Note:** The white wire is an optional connection for third party components such as low fuel level alarm, signal light, etc. A slave relay is required this type of application.

● ● = LED on

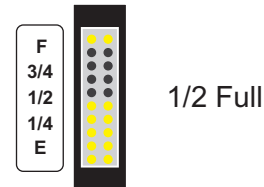
● ● = LED off



Full



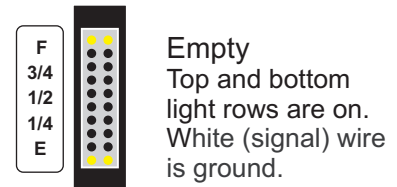
3/4 Full



1/2 Full



1/4 Full  
White (signal) wire changes from neutral to ground.



Empty  
Top and bottom light rows are on.  
White (signal) wire is ground.

**40-1032 Kit - Side Mount FuelWatch Indicator**

Item	Part no.	Description	Qty
1	NSS	Display - fuel level (LED, includes bracket)	1
2	41-754	Splice	2
3	41-1932	Fuse - 1 amp	1
4	55-396	Lockwasher	12
5	55-547	Clamp (.38 dia)	10
6	55-2001	Flatwasher	10
7	55-2330	Bandwrap (7.0)	10
8	55-2332	Bandwrap (3.5)	10
9	55-3941	Screw (HH SLFTAP #10-32)	10
10	55-5640	Screw (HWHSM #10)	10
11	55-8372	Clamp - harness	10
12	92-3032	Nameplate - fuel level	1

## Installation of Electronic Fuel Sensor



1. Unscrew the Schmitz gauge and remove it



2. Unscrew the fuel gauge from the tank using Nosehead Pliers



3. Take into account that rounded tip has to end up in the top part



4. Inset the Tk fuel gauge without damaging the float



5. Screw in new gauge with the pliers. Assure rounded tip is in the top part



6. Insert the electronic twin-site and secure with screws