



SeeLevel Tank Sensor Monitoring Retrofit

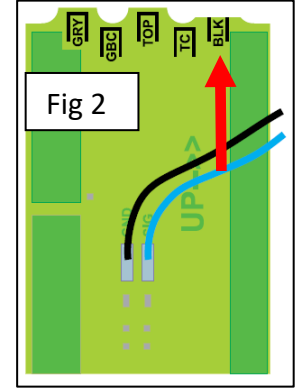
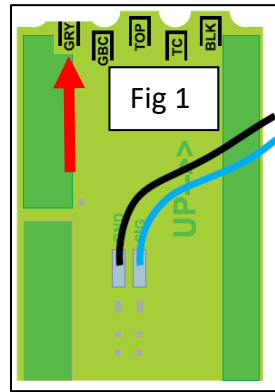
Bulletin Type:	TSB	Publication Date:	July 2022
Bulletin #(s):	22-068	Make(s):	Entegra Coach
Job Code(s):	9803577	Model(s):	Aspire, Anthem, Cornerstone
Flat Rate(s):	1.25 Installation	Model Year(s):	2020-2022

Incident:	Firefly Tank Sensor failing
Affected Units:	Certain 2020-2022 Entegra Aspire, Anthem & Cornerstone
Parts Kit:	Parts Kit #: 22-068JM 1 - HARNESS, SNSR TK LVL W/4 TK SNSR (Jayco Part #0256439) 1 - HARNESS, MON TK RTROF SEELEVEL (Jayco Part #2031682) 2 - CONNECTOR, M 4-WAY 3M MINI CLP IDC PLUG 20-24GA (Jayco Part #0230430) 3 - SENSOR, 12.00 FIELD EFF FLUID W/CONN (Jayco Part #0221890) 1 - PANEL, MON W/RV-C CONN W/WTR PMP SW W/LED "SEELEVEL" (Jayco Part #0269404)
Misc. Tools & Supplies:	Screw Gun with Square Bit 5/16" Socket 3 foot pex line or flexible pull-wire Rubbing Alcohol Flashlight Zip-Ties
Parts Return Information:	N/A

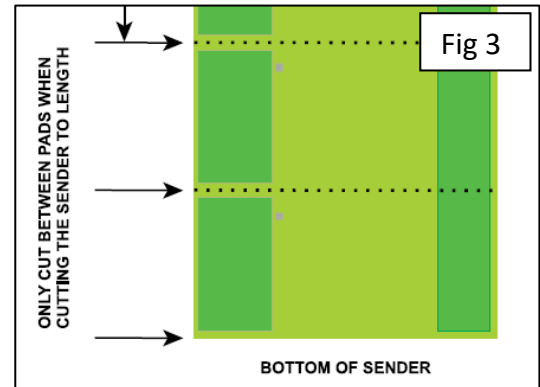
REPLACEMENT OF FIREFLY TANK SENSOR INSTRUCTIONS

Preparation for replacement:

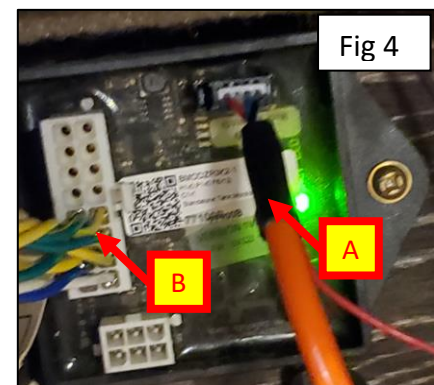
1. Prepare the 12 inch SeeLevel Sensors to be installed on the black and grey tanks.
 - A. Grey Tank Sensor - cut the top of the GRY tab for the grey tank. (Figure 1)
 - B. Black Tank Sensor - cut the top of the BLK tab for the black tank. (Figure 2)
 - i. **NOTE: The wire in the tab being cut must be broken.**



2. Prep both of the 12 inch black and grey tank sensors by cutting 3 inches from the bottom of the sender to overall length of 9 inches. This cut must be completed at the bottom and between the pads. (Figure 3)



3. On the passenger side of the unit, locate the electrical distribution panel. (Figure 4)
 - A. Disconnect the network cable from the tank sensor module. Opposite end can be removed from G12 and Red wire removed from double wago with Purple wire. Discard the network cable.
 - B. Remove plug from the tank sensor module.
 - C. Remove the tank sensor module and discard. The plug removed should be covered with electrical tape for future protections and will not be re-installed. (Figure 4)



4. On the passenger side of unit, remove access cover to access the Black, Grey and Freshwater tanks.
 - A. Front Side – using a square bit, remove fasteners securing the cover (Figure 5)
 - B. Rear Side – using a 5/16 socket, loosen clamp and remove flex hose from the fill by removing the clamp (Figure 6)



5. Using 5/16 socket, remove fastener and tank strap to access the interior sides of the grey and black tanks. (Figure 7)

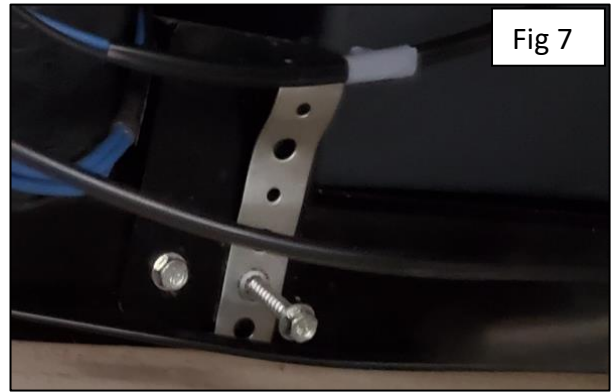


Fig 7

6. Prep all three tanks – black, grey, and freshwater – for sensor installation. Clean the area well (ex. rubbing alcohol) so that there is no dust, grease, oil, water, etc., this step should prevent the adhesive on the sender from sticking.
7. Install SeeLevel Sensor to the side of the freshwater tank. (Figure 8)

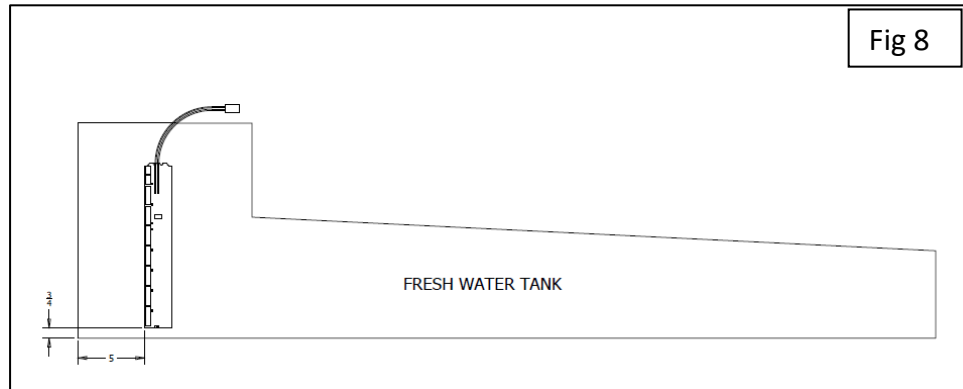


Fig 8

8. Install the 9 inch black tank sensor on the black tank (Figure 9)
- A. **NOTE: The sensor cannot touch and must be mounted 1/2 inch away from metal.**
 - B. **NOTE: Wiring must be routed and secured to the right side of the sensor. An error will occur if routed and secured to the left.**

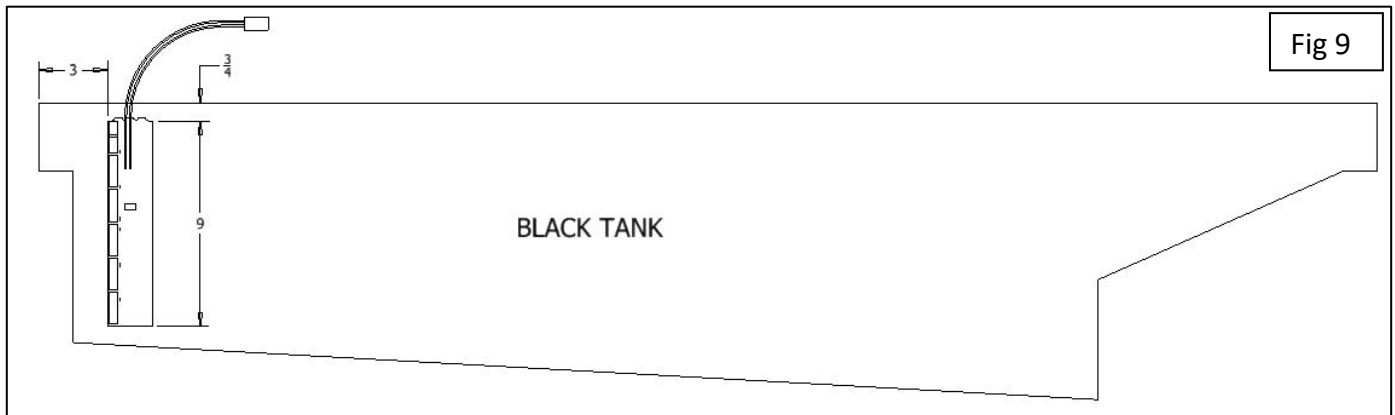


Fig 9

9. Install the 9 inch grey tank sensor on the grey tank. (Figure 10)
- A. NOTE: The sensor cannot touch and must be mounted 1/2 inch away from metal.
 - B. NOTE: Wiring must be routed and secured to the right side of the sensor. An error will occur if routed and secured to the left.

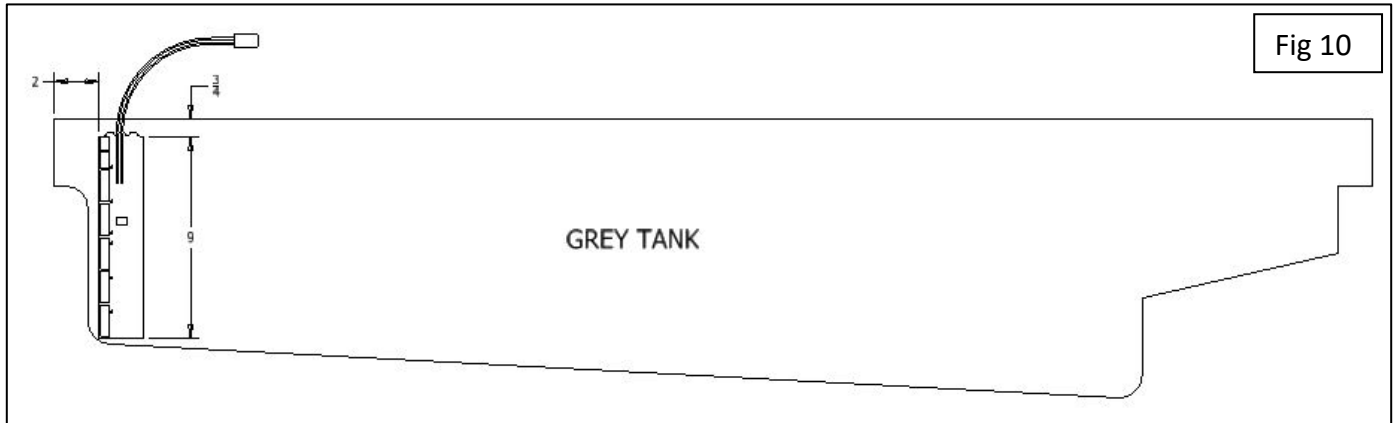


Fig 10

10. Connect Sensor Harness to the three installed sensors. (Figure 11)
- A. Plug with Black tape to Black Tank Sensor.
 - B. Plug with Grey tape to Grey Tank Sensor.
 - C. Plug with White tape to Freshwater Tank Sensor.

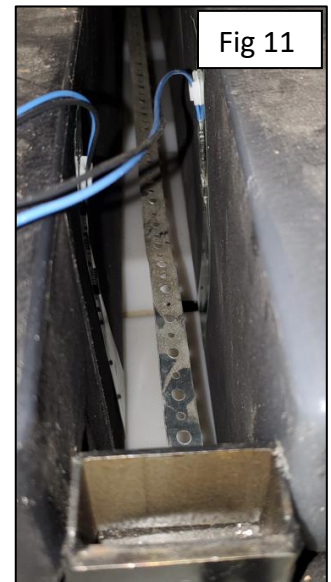


Fig 11

11. Routing the Sensor Harness Plug with Blue tape:
- A. Locate hole for the Vacuum system on the forward side of the freshwater tank.
 - B. Tape connector to the flexible guide.
 - C. Route the guide and wire up towards the floor. (Figure 12)
 - D. In the compartment forward, retrieve the guide and plug. (Figure 13)

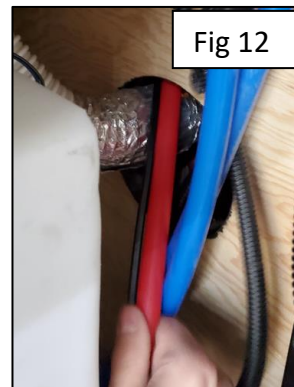


Fig 12

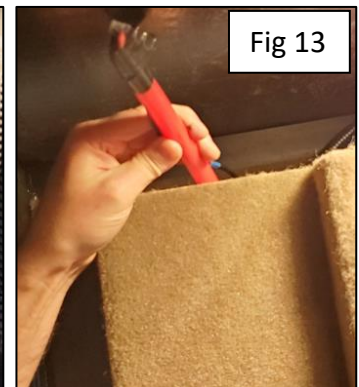


Fig 13

12. Route the Plug into the distribution panel. (Figure 14)

13. Retrofit Monitor Harness connections (Figure 15)

- A. Sensor Harness Plug with Blue tape to Retrofit Harness.
- B. Network Cable (Orange) to G12 where network cable was removed in step 1.
- C. Connector (Blue & White) to SeeLevel Tank Monitor.
- D. Connector (Red, Black & Blue) to SeeLevel Tank Monitor.

14. Mount SeeLevel Tank Monitor next to Firefly Panel. (Figure 16)

15. Complete Firefly update:

- A. Firefly Update:
 - Anthem/Cornerstone updates will be completed over the air to 1.4.15 or later.
 - Aspire updates will require a jump drive dependent upon model year of the unit. Please click on the following link <https://www.fireflyint.com/TSB-22-068.html> for the files containing updates for the below model years. Contact Firefly Integrations for the software at 574-825-4600 or by email to joshh@fireflyint.com if the link is not working
 - 2022: **12.12**
 - 2021: **11.10**
 - 2020: **10.19**
- B. Select SeeLevel Option.

16. Verify functionality.

17. Re-secure tank strap and bundle excess sensor harness with a tie-strap. (Figure 17)

18. Re-install access panels.



Fig 14

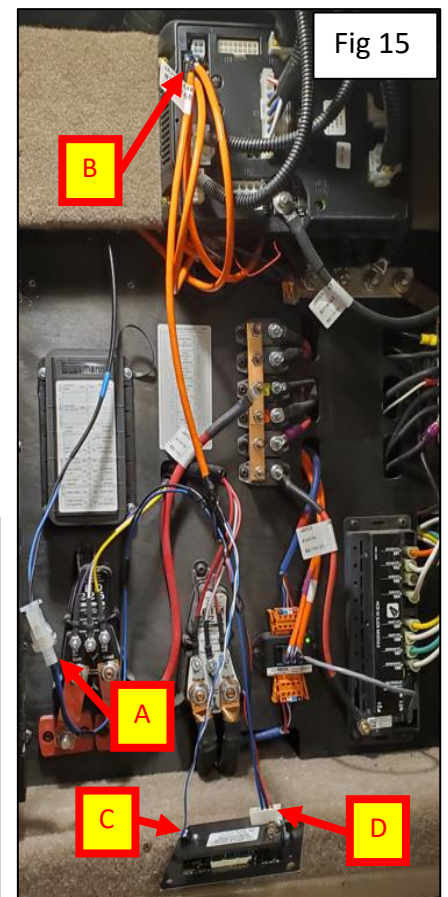


Fig 15

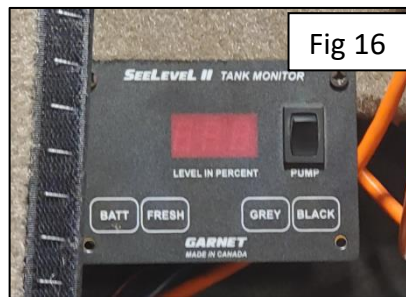


Fig 16



Fig 17

Jayco's sole obligation under our limited warranty is to repair or replace defective materials and/or workmanship deemed our responsibility as determined by Jayco in our sole discretion. Jayco reserves the right to use new and/or remanufactured parts or materials of similar quality to complete any work, and to make parts and/or design changes as appropriate without notice to anyone. Jayco designs and/or materials changes are done without obligation to incorporate such changes in previously manufactured product. Jayco makes every reasonable effort to ensure field remedies will not adversely affect performance and/or safety of the unit. This field remedy is not intended to extend to future performance of this RV, or any of its materials, components or parts beyond the standard warranty period. The RV owner's obligation to notify Jayco, or one of its independent, authorized dealers, of a claimed defect does not modify any obligation placed on the RV owner to contact Jayco directly when attempting to pursue remedies under state or federal law.

903 South Main Street • P.O. Box 460 • Middlebury, IN 46540