



Technical Service Bulletin

Technical Service Bulletin: TSB180048	Released Date: 15-May-2018
- Campaign #3296 - HGJBB Wiring Issue Between Oil Level Sensor and Ignition Coil	

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Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Contents

Product Affected

A specific set of HGJBB Generator Sets have been identified to potentially have a wiring issue. A list of the potentially affected serial numbers is included at the end of this document.

Issue

Symptom:

- For liquid propane (LP) units: No physical symptoms are present. However, The low engine oil level sensor may not function as intended, potentially resulting in nuisance shutdowns or backfiring.
- For gasoline units: The generator set will not immediately shut down when the STOP button is pressed on the control panel or on the remote START/STOP switch. Once the STOP button has been pressed, the unit may run for up to three minutes before shutting down. Additionally, the low engine oil level sensor may not function as intended, potentially resulting in nuisance shutdowns or backfiring.

Root Cause:

- During production, the ignition coil and low engine oil level sensor leads were wired together instead of being wired to the correct leads on the control harness. Pictures of the incorrect and correct wiring can be seen below.
- On LP units: Pressing the STOP button will engage the fuel shutoff solenoid valve and shut the generator down on command.
- On gasoline units: Pressing the STOP button will turn the fuel pump off, but the generator will continue to run until the fuel in the carburetor bowl is depleted. Therefore, the generator may take up to three minutes to shut down after the STOP button has been pressed.



Figure 1, Incorrect Wiring



Figure 2, Correct Wiring

Verification/Confirmation

For both LP and gasoline units: There are two different inspection methods to identify whether the generator may have been wired incorrectly. Inspection method 1 can generally be performed when the generator is installed on a coach. Inspection method 2 can generally be performed if the generator is not installed on a coach.

Inspection Method 1: Remove the service door of the generator set and disconnect the main connector to the control board. Using a multimeter, measure the resistance between P1-4 (top row, 4th pin from the right) and ground. If the generator has been wired correctly, the resistance value should be 10.2 k Ω , per the service manual. If the generator has been wired incorrectly, the multimeter will show an open loop. If an open loop is discovered, follow the steps given in the resolution section of this document to correct the wiring issue.

Inspection Method 2: Visually inspect the wires to ensure they are properly connected. The black ignition coil wire should be connected to the white wire marked P1-4 (the white wire will also be marked S1-1). The orange oil level sensor wire should be connected to the white wire marked P1-6 (the white wire will also be marked S2-1). The black ignition

coil wire and the orange oil level sensor wire **should not** be connected to each other. If the black and orange wires are found to be connected to each other, follow the steps given in the resolution section of this document to correct the issue.

Additionally for gasoline units only: If it is discovered during regular testing and installation that the generator does not shut down immediately after pressing the STOP button, this may be an identifier for incorrect wiring. If the generator does not shut down immediately on command, allow up to three minutes for the generator to shut down, and then follow the steps given in the resolution section of this document to correct the issue.

Resolution

For both LP and gasoline units: Connect the black ignition coil wire to the white wire marked P1-4 (the white wire will also be marked S1-1). Additionally, connect the orange oil level sensor wire to the white wire marked P1-6 (the white wire will also be marked S2-1). After both wire connections have been made, start the generator set, allow it to run for a short period of time, and then ensure the generator shuts down when the STOP button is pressed.

Campaign Authorization Details:

Following the procedure outlined above, perform the inspection on all units in the list of suspect serial numbers.

Use the following SRT's if the unit was **installed on a coach**, and the inspection showed the unit was **miswired**.

- 00-901: Administrative time - 0.4
- 99-999: Inspect pins at Service Panel - 0.2
- 99-999: Correct Wiring - 0.2
- 00-1AE: Generator set, Genset Complete R&I - 2.0
- 67-154: Mobile Vehicle/Equipment Lift System-Set up - 0.6

Use the following SRT's if the unit was **not installed on a coach**, and the inspection showed the unit was **miswired**.

- 00-901: Administrative time - 0.4
- 17-3AD: Enclosure Door/Panel Handle/Latch R&I - 0.1
- 99-999: Correct Wiring - 0.2

Use the following SRT's if the unit was **installed on a coach**, and the inspection showed the unit was **wired correctly**.

- 00-901: Administrative time - 0.4
- 99-999: Inspect pins at Service Panel - 0.2

Use the following SRT's if the unit was **not installed on a coach**, and the inspection showed the unit was **wired correctly**.

- 00-901: Administrative time - 0.4
- 17-3AD: Enclosure Door/Panel Handle/Latch R&I - 0.1

Account Code: 65

Authorization Code: 3296

Fail Code: JCSWMW = Control system switch – manual miswired

Travel: 1 trip allowed, if necessary

Parts: None

Expiration Date: May 8, 2020

List of Generator Set Serial Numbers

C180323 058	C180322 891	C180327 311	C180322 993	C180323 029	C180325 747	D180332 956
C180323 059	C180322 892	C180327 312	C180322 994	C180323 030	C180325 748	D180332 957
C180323 060	C180322 893	C180327 313	C180322 995	C180323 031	C180325 749	D180332 958
C180323 061	C180322 894	C180327 314	C180322 996	C180323 032	C180329 044	D180332 959
C180323 062	C180322 895	C180327 315	C180322 997	C180323 033	C180329 045	D180332 961
C180323 063	C180322 902	C180327 316	C180322 998	C180327 318	C180329 046	D180332 963
C180323 064	C180322 963	C180327 317	C180322 999	C180327 320	C180329 047	C180325 775
C180323 065	C180322 964	C180327 386	C180323 000	C180327 321	C180329 048	C180325 776
C180323 066	C180322 965	C180327 387	C180323 001	C180329 306	C180329 049	C180325 777
C180323 067	C180322 966	C180327 388	C180323 034	C180325 719	C180329 050	C180325 778
C180323 068	C180322 967	C180327 389	C180323 035	C180325 720	C180329 051	C180325 779

C180323 069	C180322 968	C180327 390	C180323 036	C180325 721	C180329 052	C180325 780
C180323 070	C180322 969	C180327 391	C180323 037	C180325 722	C180329 053	C180325 781
C180323 071	C180322 970	C180327 392	C180323 038	C180325 723	C180329 054	C180325 782
C180323 072	C180322 971	C180327 393	C180323 039	C180325 724	C180329 055	C180325 783
C180323 073	C180322 972	C180322 896	C180323 040	C180325 725	C180329 056	C180325 784
C180323 074	C180322 973	C180322 897	C180323 041	C180325 726	C180329 057	C180325 785
C180323 075	C180322 974	C180322 898	C180323 010	C180325 727	C180329 058	C180325 787
C180323 076	C180322 975	C180322 899	C180323 011	C180325 728	C180329 059	C180325 788
C180323 077	C180322 976	C180322 900	C180323 012	C180325 729	C180335 757	C180325 789
C180323 078	C180322 977	C180322 901	C180323 013	C180325 730	C180335 760	C180323 002
C180323 079	C180323 159	C180322 978	C180323 014	C180325 731	C180335 761	C180323 003
C180323 080	C180323 160	C180322 979	C180323 015	C180325 732	D180332 941	C180323 004
C180323 081	C180323 161	C180322 980	C180323 016	C180325 733	D180332 942	C180323 005
C180323 151	C180323 162	C180322 981	C180323 017	C180325 734	D180332 943	C180323 006
C180323 152	C180323 343	C180322 982	C180323 018	C180325 735	D180332 944	C180323 007
C180323 153	C180323 344	C180322 983	C180323 019	C180325 736	D180332 946	C180323 008
C180323 154	C180323 345	C180322 984	C180323 020	C180325 737	D180332 947	C180323 009

C180323 155	C180323 346	C180322 985	C180323 021	C180325 738	D180332 948	C180325 759
C180323 156	C180325 751	C180322 986	C180323 022	C180325 739	D180332 949	C180325 760
C180323 157	C180325 752	C180322 987	C180323 023	C180325 740	D180332 950	C180325 761
C180323 158	C180325 753	C180322 988	C180323 024	C180325 742	D180332 951	C180325 762
C180322 886	C180325 754	C180322 989	C180323 025	C180325 743	D180332 952	C180325 763
C180322 887	C180325 755	C180322 990	C180323 026	C180325 744	D180332 953	C180325 764
C180322 888	C180325 756	C180322 991	C180323 027	C180325 745	D180332 954	C180325 765
C180322 889	C180325 757	C180322 992	C180323 028	C180325 746	D180332 955	C180325 766
C180322 890	C180325 758					

Document History

Date	Details
2018-4-19	Module Created
2018-5-15	Non-Product Problem Solving (PPS)

Last Modified: 15-May-2018
