



DATE: 5-8-18

APPLIES TO: This service bulletin applies to model year 2018 K3 and K4 motor home chassis equipped with gauge panels supplied by Silver Leaf built between November 11, 2016 and September 28, 2017.

Bulletin # CSB18-560-001 is superseded by bulletin CSB18-560-001A due to clarification of applies to section. Any vehicle repaired under bulletin # CSB18-560-001 will not require any additional work.

CONDITION: The dash may produce unintended warnings or messages.

CORRECTION: The digital dash must be updated to newest software version and its corresponding data collector module must be replaced. To complete update to digital dash you will need an OmniScope Adapter.

LABOR ALLOCATION: 1 hour

CLASSIFICATION: V 3

PARTS NEEDED:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	S-2627-XXX	Choose correct configuration kit

Kit # S-2627-001A Contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	2035-NN1-001	TM120 Module – Foretravel
1	CSB18-560-001A	Instruction Document

Kit # S-2627-002A Contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	2035-NN1-002	TM120 Module – King Aire
1	CSB18-560-001A	Instruction Document

Kit # S-2627-003A Contains:

<u>QTY</u>	<u>Part Number</u>	<u>Description</u>
1	2035-NN1-003	TM120 Module – Essex
1	CSB18-560-001A	Instruction Document

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GENERAL INSTRUCTIONS:

Thoroughly review entire service bulletin before starting work. If there are questions or concerns with steps defined in this service bulletin, contact Spartan Motors USA, Inc. Customer & Product Support Group @ 800.543.4277

All applicable industry safety standards must be followed when performing work identified in this procedure.

STEP-BY-STEP INSTRUCTIONS:

TM120 Replacement
Newmar

1. Locate TM120, which is located on wall of front electrical compartment. Refer to FIG. 2-1.

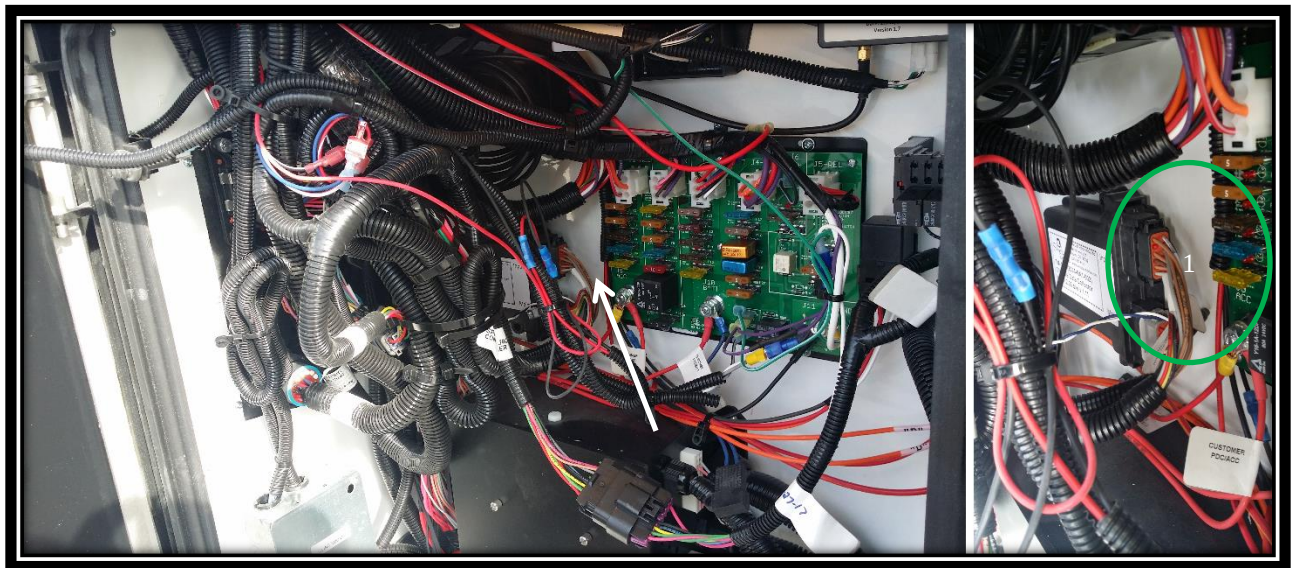


FIG. 2-1

2. Unplug TM120 module from harness.
3. Remove TM120 module from vehicle, retain all mounting hardware for reuse. (TM120 must be Returned to Spartan).

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4. Install new TM120 module using retained mounting hardware.
5. Connect harness back up to new module.

Foretravel

1. Remove black panel, which will be affixed with Velcro, located on dash console directly above stairs. Refer to FIG. 3-1.



FIG 3-1

2. Remove HVAC vents from removed panel. Refer to FIG. 4-1.
3. Locate TM120 module, located against back wall inside dash. Connectors are oriented up. Refer to FIG. 4-2.

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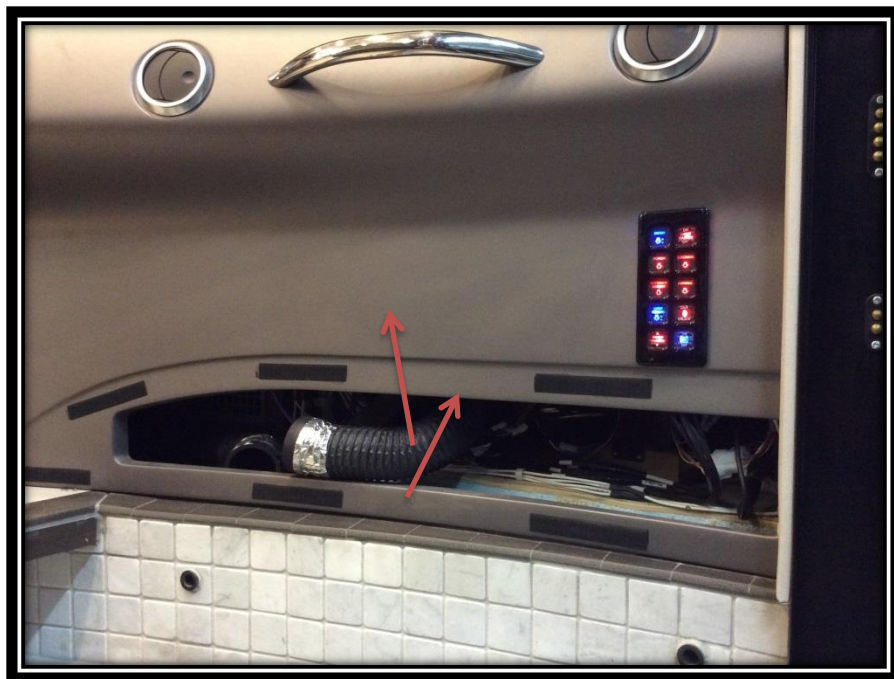


FIG. 4-1

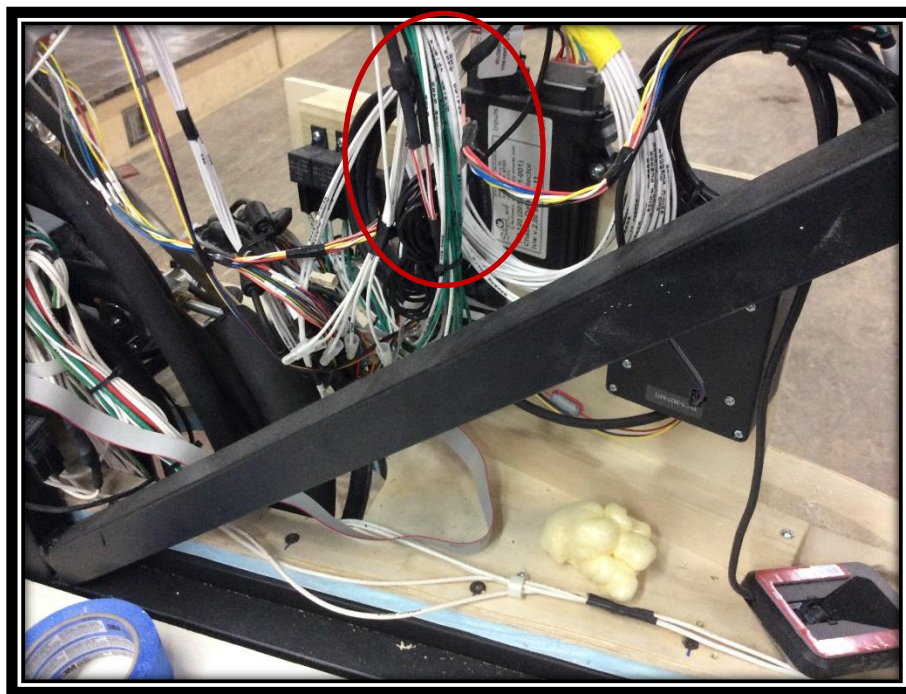


FIG. 4-2

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4. Unplug TM120 module from harness.
5. Remove TM120 module from vehicle (TM120 must be Returned to Spartan). Retain for reuse all mounting hardware.
6. Install new TM120 module using retained hardware.
7. Connect harness back up to new module.
8. Reconnect HVAC hoses to vents in panel.
9. Reinstall black panel.

Download the Dash Update File

1. Connect to Silverleaf's support site (<http://support.silverleafelectronics.com/user/login?destination=>).
2. Log in using following account information.
 - a. User Name: spartantech
 - b. Password: Everything
3. Download VMS747_MY2018_v1.19_9-29-17.bin file.

Digital Dash Update Process

1. To update dash, connect Omniscope Adapter's USB cable to USB port of laptop being utilized for update and connect vehicle connector to RV-C diagnostic port.
2. Launch OmniScope.exe Refer to Fig 5-1

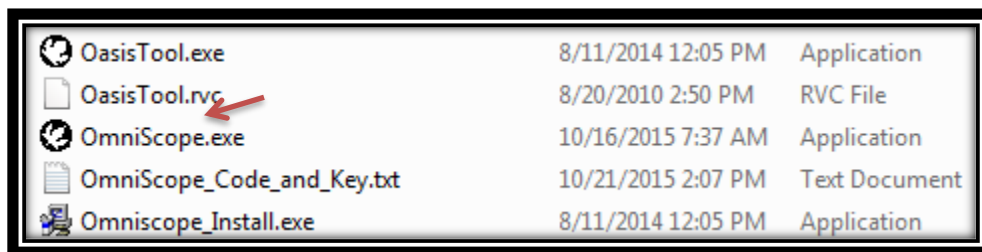


FIG. 5-1

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3. Select item in left window that says, 'Control Panel'. If multiple items say control panel, find one that in details side window states model is a "VMS747CL-1.XX". The xx will be whatever version number is loaded on that dash. Refer to FIG. 6-1.

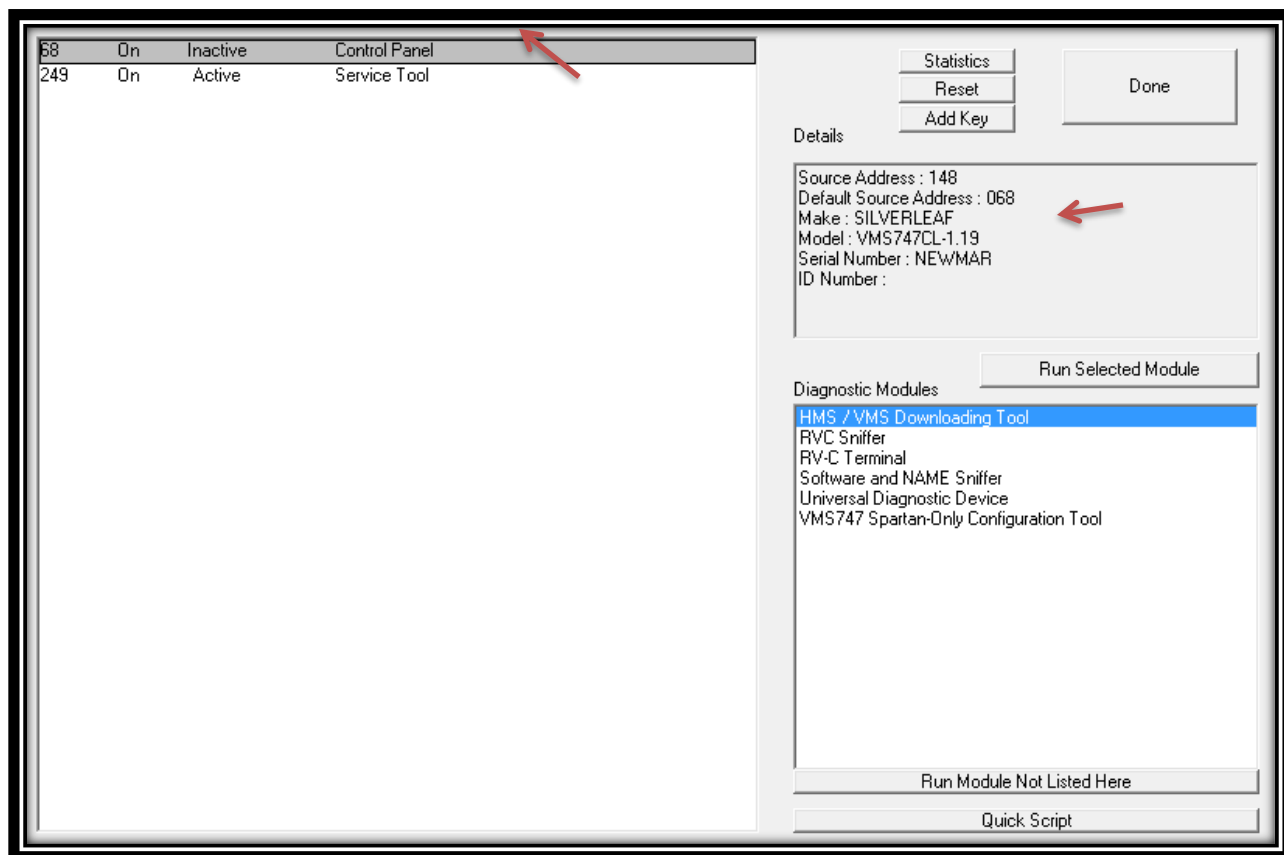


FIG. 6-1

4. Select 'HMS/VMS Downloading Tool' in right pane and press 'Run Selected Module'
 - a. If Diagnostic Modules list is blank, select another item in left list and then select control panel again
5. In file downloader window, select version that needs to be installed and speed download should run at.
 - a. Browse to where software has been saved and select flash file (VMS747_MY2018_v1.19_9-29-17.bin).
 - b. Set speed to a low value such as 4-10. Speeds higher than this can cause errors that slow down process significantly.
6. Once speed and file are set, press 'Start' button to begin download. Refer to FIG. 7-1.

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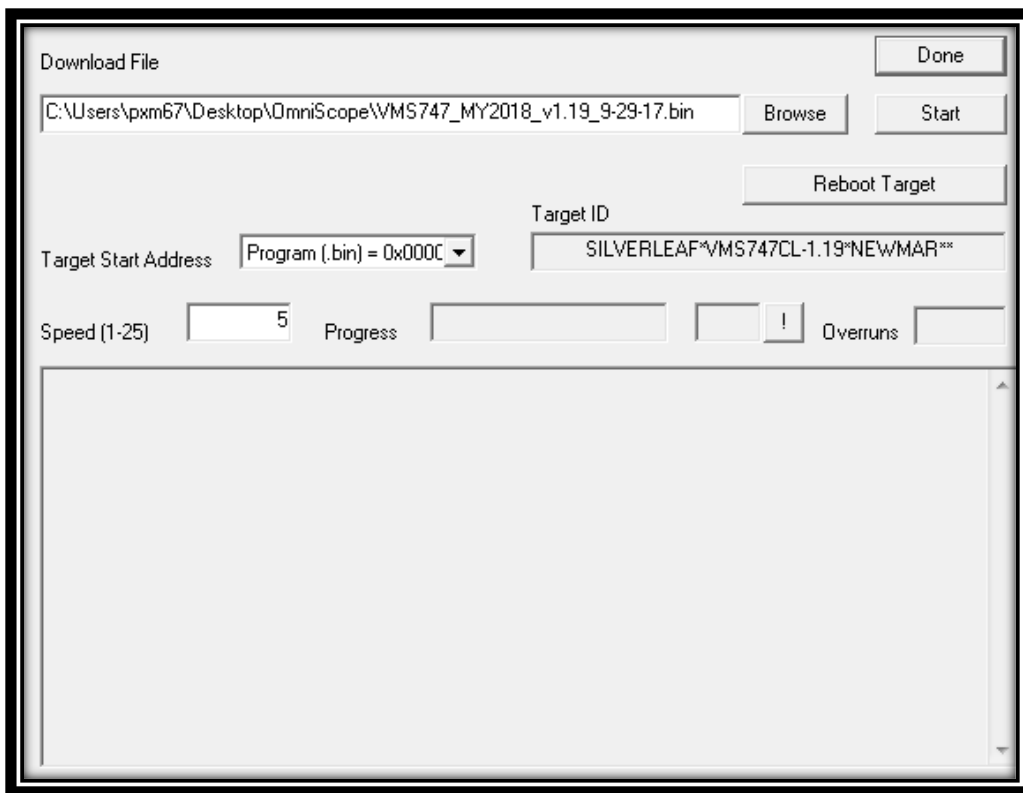


FIG. 7-1

7. On a fully built coach, this process can take up to 30 minutes due to overruns. No interaction is required during this time.
 - a. Make sure that computer updating dash has adequate power. If power failed during an update then dash could be corrupted, requiring a replacement part.
 - b. During updates, multiple error messages will appear. These are normal and when system hits one, it will simply retry sending data until it succeeds. The most common one follows format of "Error on Block #". Refer to FIG. 7-2

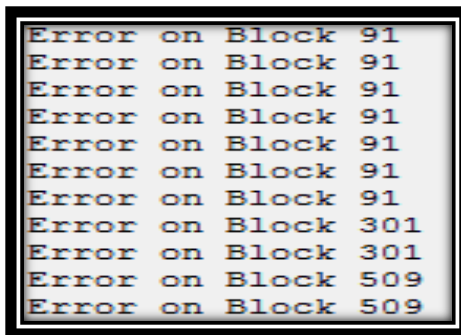


FIG. 7-2

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8. Once software has downloaded, program will indicate it has been transferred to flash and that 'Download has Succeeded.' Then press 'Reboot Target' button. Refer to FIG. 8-1.

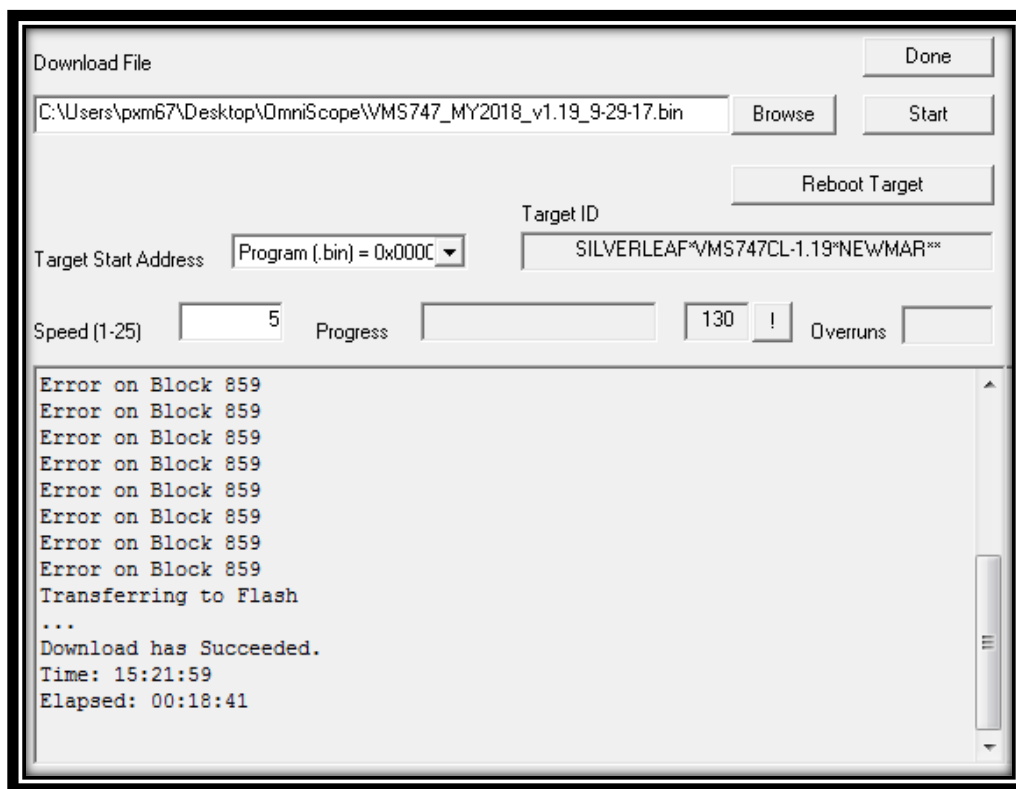


FIG. 8-1

- a. In some cases, downloader will not indicate that download has succeeded and will just continue to print the dots. The downloader can be safely closed, in this situation if dash has reset. You can tell if dash was reset when during dot printing dash flashed off and on again. Another indicator is if dash can be interacted with and is showing any sort of updates on screen (messages, changing gauge values, etc.). In general, if more than 5 or 6 dots have been printed then dash is almost guaranteed to have reset itself.
9. From here dash should restart. To ensure it is correct software version, hold down DRIVE and SCAN buttons on keypad. Towards middle of screen dash should list its version. At this point it should state it is version 1.19, if it does not reattempt flash. If this does not correct issue, contact Spartan CPS for assistance.

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