

TECHNICAL SERVICE BULLETIN

VSB-06 Vanleigh Ambition Equalizer Replacement

September 10, 2024

Dear Tiffin Motorhome Dealer,

It has come to our attention that Vanleigh Ambition 5th wheel RVs were built with a double axle equalizer instead of a triple axle equalizer.

Tiffin Motorhomes will replace the double axle equalizer with a triple axle equalizer.

Owners will be notified by mail about the technical service bulletin and will be instructed to take their 5th wheel RV to a reputable service center **OR** dealer of their choice to have this update completed. Tiffin Motorhomes is allowing up to 1.50 hours for the replacement of the equalizers.

Please verify the 5th wheel RV is involved in this update **before** beginning the correction. To verify a 5th wheel RVs involvement in this technical service bulletin, please visit our website, tiffinmotorhomes.com. Choose the "Dealer Login" page and click on "Vehicle Recall Lookup" and enter the complete 17-digit VIN number. No login or password is needed. To view work instructions, please click on "Flat Rate Manual" and choose "Service Bulletins" for Model and "Vanleigh Service Bulletins" for the Section, scroll down to VSB-06 and click "Show Files" and then download the work instructions. Parts should be ordered when the appointment for the installation is scheduled so that parts are ready at the dealership for their appointment.

This technical service bulletin will expire November 1, 2025. Please make sure that this update is completed prior to this date. Work completed after this date will be done at the customer's expense.

We regret any inconvenience this action may cause but feel certain you understand our interest in the continued use and enjoyment of the involved recreational vehicles.

Tiffin Motorhomes

**TECHNICAL SERVICE BULLETIN, VIN:
VSB-06 Vanleigh Ambition Equalizer Replacement**

September 9, 2024

Dear Tiffin Motorhome Owner,

It has come to our attention that Vanleigh Ambition 5th wheel RVs were built with a double axle equalizer instead of a triple axle equalizer.

Tiffin Motorhomes will replace the double axle equalizer with a triple axle equalizer.

Please take your motorhome to a service center of your choice to have the correction completed. This replacement should take **1.50 hours** or less and will be completed at no charge to you.

A list of Tiffin Motorhomes authorized dealers is available online at <https://tiffinmotorhomes.com/service-center-locations>. If you are using a service center that is not a Tiffin Motorhomes authorized repair facility, please make sure that they contact Tiffin Motorhomes for the required instructions and time allowed for the repair. Tiffin Motorhomes will not pay over the allowed time unless the repair facility receives prior authorization. For authorization, contact Tiffin Motorhomes at 256-356-0261 or service@tiffinmotorhomes.com.

This technical service bulletin will expire November 1, 2025. Please make sure that this update is completed prior to this date. Work completed after this date will be done at the customer's expense.

You may be liable for any progressive damage that results from your failure to complete this technical service bulletin within a reasonable time after receiving notification.

We regret any inconvenience this action may cause but feel certain you understand our interest in your continued use and enjoyment of your recreational vehicle.

Tiffin Motorhomes

Technical Service Bulletin VSB-06 Repair Instructions

Models Involved: 2022 and 2023 Vanleigh Ambition 5th wheels RV's

Purpose: To provide instructions on how to replace the double axle equalizer with a triple axle equalizer.

FLAT RATE CODE & TIME ALLOWED *When filing the warranty claim for payment, please use the appropriate flat rate code.*

7906SB00 for replacement of incorrect equalizer, 1.50 hours

No authorization is required for work completed at the flat rate times stated on the work instructions. Use "VSB06" as the authorization on claim for payment.

Tools Needed:

Pneumatic Air or Impact Gun
Torque Wrench
11/16" Socket
11/16" Wrench
7/8" – 1/2" Drive Deep Well Socket
Hamer/Rubber Mallet
Steel Tube
2 Floor Jacks & 2 Jack Stands

Parts Needed:

1 of 5164755 Curbside Equalizer
1 of 5164756 Roadside Equalizer
2 of 5167560 Shoulder Bolt
Reference diagram page 4 as needed

Repair instructions

1. Lower leveling jacks and place jack stands under main frame I-beam to ensure unit is properly supported before performing any work.
2. Remove wheels from front and middle axle. Use floor jacks under the front axle and middle axle for support.



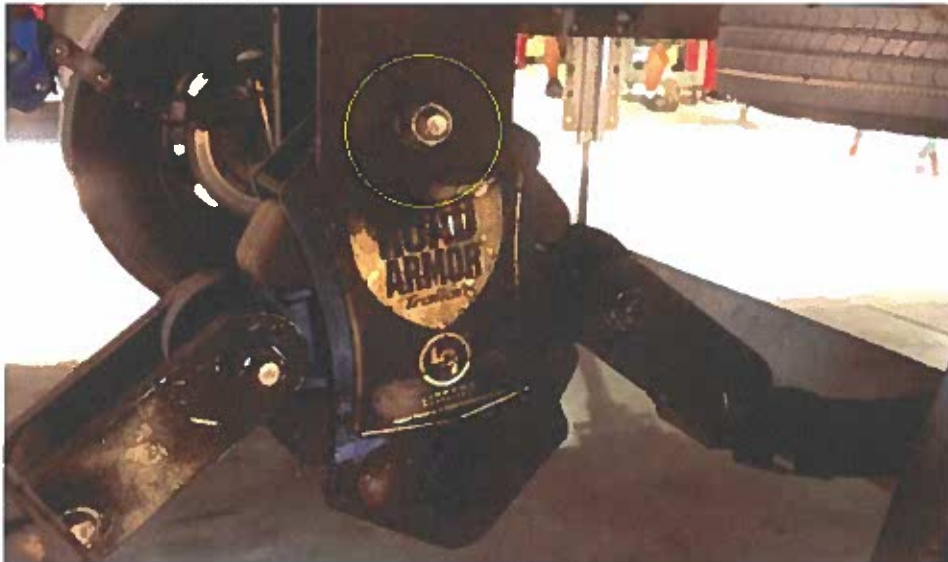
3. Use 7/8" – 1/2" drive deep well socket to remove front and middle wheels from unit.

Front Equalizer Removal:

4. Starting on one side, use impact wrench with 11/16" socket to remove the 4 nuts from the 2 shackles (shown below) **Note:** Keep one nut from each side to use with new bolt supplied with parts kit.



5. Remove shackle bolts from leaf springs and equalizer pivot arms. **Note:** One shackle will be used on the new equalizer.
6. Use 11/16" socket to remove equalizer bolt from hanger. (shown below) **Note:** Rubber mallet may be needed to knock bolts loose.



Install new equalizer

7. **Note:** There is a left hand (LH) and right hand (RH) Equalizer. The fixed arm must always face toward the rear of the unit.
8. Use 11/16" socket to secure the new equalizer to the hanger with bolts and nuts removed from the old equalizer. **Note:** Use a hammer or a piece of steel tube (for bolts with grease fittings) and drive the equalizer bolt into the hanger. This will seat the serrations of the bolt against the hanger surface and provide resistance to rotation when tightening. **Note:** The equalizer bolt must be installed from the outside in toward the center of the chassis. This ensures the bolt threads do not interfere with any other assemblies. This applies to bolts with or without grease fittings.



9. Use 11/16" socket to secure fixed arm to rear leaf spring. **Note:** Use shoulder bolt (5167560), and nut removed from old shackle.



10. Use 11/16" socket to secure shackle to equalizer pivot arm and middle leaf spring.



11. Tighten all nuts until they bottom out on the shoulder of the bolt. Torque all bolts at 30-50 ft-lbs.
12. Repeat Step "D" for opposite side of the unit.
13. Remount Wheels, use 7/8" – 1/2" drive deep well socket to reinstall front and middle wheels on unit. **Note:** All lug bolts must be torqued to 120 ft-lbs.

