RECREATIONAL VEHICLE	E SERVICES INC.		
MORGAN HILL, CA 9503	7	□ URGENT	ROUTINE
		☐ MANDATORY	INFORMATIO
	. Pernice	Bulletin RVS	3 001
DATE. April 1,19	983	NUMBER	
ATTENTION: SERV	ICE MANAGERS AND	OWNERS	GROUP
Description:			17
	des the proper procedu transmission and diff	re for aligning the critical erential.	SUBJECT Drive Line
in preventing drive		zing this procedure will aid subsequent early failure,	Alignment Tool
Instructions:	Ø		
seals etc. Check t (U-Joints) for exce	ri-union caps on spide	rive line components, yokes, or and bearing assembly de play. Replace those defective.	
	line U Joints require		MODEL (S) AFFECTED
grease to fitting a shaft assembly. Us	t each universal joint	pursuant to usage. Apply Do not forget propellor pressure equipment. This ase, NLG1 Grade 2 EP.	001-1050
(This is necessary		re line is properly indexed. canted in the coach with	
	ative that the parking ked before proceding	brake be applied and all	
Shaft Rem	shaft, proceed as foll 1. Remove four bolts end of shaft spider/b	ransmission-to-differential lows: sattaching the aft	
	2. Support shaft ass bolts inserting throu	membly, and remove four agh the yoke on the forward spider/bearing;	
	3. Lower and remove	shaft assembly.	

B: While holding the propellor (or drive) shaft

be lined up with each other.

yoke away from you) the 2 universal joints should not

C. If these U-Joints are lined up or you have any doubt they are not indexed correctly follow the procedure as outlined in C(1).

perpendicular to your chest, (holding the female end of slip

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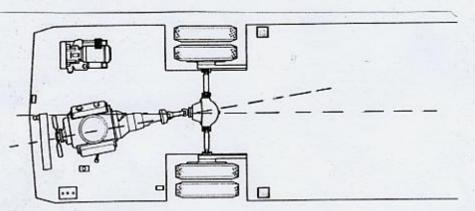
## Service Bulletin

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Fig. (1) Shows inclination of engine trans package as compared to third member drive components: (indexing takes care of this problem)



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C.1. Unscrew the retaining collar at the slip yoke and pull the drive line apart (still holding it perpendicular to your chest) line up the U joints, then move male portion (the end closest to you)

Two teeth to the left; install together and screw the retaining collar back on.

Now that the drive line itself is indexed correctly proceed to item (D).

- D. You will notice that the (2) alignment tools enclosed, have a hole and mount pattern acceptable to the output yoke of the transmission and also the input yoke of the differential. Bolt these (2) tools to the above yokes.
- E. Notice the conical tips of each tool. These should line up within 1/16" of each other in order to obtain an optimum setting.
- F. If the members are out of line all adjustments are made to the crossmember placement and transmission footing.
- G. In the event the transmission should be moved up or down, proceed as follows:
  - Support tailshaft of transmission with bottle jack or other similar supporting device.

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\* IMPORTANT:

Do not proceed unless you feel you can safety support this assembly. Without any chance of damage to yourself, your coach, and/or equipment.

- 2. Remove the two retaining bolts from the transmission foot plate to crossmember support. Using bottle jack or support device raise enough to facilitate removal or installation of shim washers. Remove or add the correct number of shims or washers between these (2) members to bring the drive line pointers even on the same line. Washer shims that have been removed may be stored at the top of the transmission foot plate (installation here will not effect alignment).
- 3. Installation is in reverse. All bolts should be torqued to proper specs.

H. In the event the transmission should be moved to the right or left proceed as follows:

- 1. Notice that the transmission cross member is resting on angle supports welded to either side frame rail. The bolt locations between transmission cross member and angle supports are slotted facilitating left and right movement.
- 2. At times on (1) or both sides a third bolt, (Normally there are (2); is installed in a non slotted hole. This was used to hold original factory alignment integrity. This bolt; bolts must be entirely removed.
- 3. Loosen only the (4) bolts at the crossmember mounting and move the transmission crossmember to the left or right until proper alignment is obtained. Retighten these (4) bolts to proper specifications. The 3rd bolt as outlined in (2) may or may not be able to be installed at this time. If not. drill a new hole through both members and install as this bolt will hold your new alignment integrity. Tighten to specifications.

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### Torque Specifications:

U-Joint to shaft assembly 25-30 ft-pounds U-Joint to yoke/trans 25-30 ft-pounds U-Joint to yoke/diff 25-30 ft-pounds Yoke to parking brake drum 25-30 ft-pounds Nut, Yoke to Differential 150 ft pounds Bolt, Transfoot plate to crossmember 122-133 ft pounds Bolt, Crossmember trans to angle

support at frame 50-55 ft pounds

J. Remove drive line alignment tools after alignment is performent: installation of drive line is in the reverse installation: all bolts, nuts etc. on spider and bearing (universal joint) assembly do not use lock washers. Use "Locktite" or equivalent during reinstallation.

(In the event you have any questions with respect to this procedure please call before accomplishing work at (408) 227-1644 or 779-3173. Ask for Ken or Jim.

As this was a non plublished procedure by the FMC factory, yet performed by us at the factory, we feel it is a mandatory procedure while involved in an engine, transmission or differntial change, and thus the tools and procedure we are making available for purchase in the field.

RVS cannot guarantee the above procedure nor assume liability for work performed by other agencies or individuals.

Thank you.

RVS Corporation

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