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SERVICE BULLETIN: SB03232001, Inspection and Repair of Lift Shaft and Adjustment of the Gas Shock Absorbers

FROM: MAXFLIGHT CORPORATION
FAX: 732-281-2009
VOICE: 732-281-2007 x 222

MESSAGE:

Affects all VR2002E, MT3000E, VR2002E, and FS2000E, all electric simulators, manufactured by MaxFlight Corporation.

Inspection and repair of the Lift Shaft and adjustment of Gas Shock Absorbers may be necessary due to Lift Jack damage.

We have experienced a few lift jack failures. Our investigation revealed that some units have a misaligned lift shaft and may also have improperly adjusted gas shock absorbers.

INSTRUCTIONS: Follow the instructions attached and report back to MaxFlight compliance with this inspection and if any repairs or adjustments were necessary.

Non-compliance of Service Bulletins adversely affects warranty and liability issues.

Please confirm receipt of this SERVICE BULLETIN by faxing this cover page with your signature on bottom line to MaxFlight Corporation at +1(732) 281-2009 within two days.

Signature

Company

Support Documentation for

SSB03232001

Lift Shaft Coupling Alignment check Down Stop Shock Adjustment

On Units built using straight mechanical couplings on the lift drive system and single down stop gas shocks on cross blocks.

On units that have single down stop shocks installed verify that the setting at base is at highest setting.

Straight couplings were installed;

- a. on left input to the lift jack gear box.
- b. On input shaft to 90 degree gear box
- c. On output shaft of lift motor drive

Purpose of the check is to verify straight alignment of couplings to respective drive to prevent vibration that would cause loosening of the couplings.

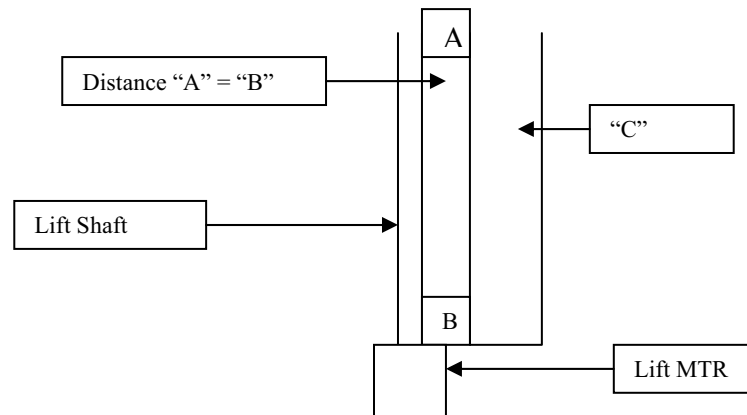
Visually check straight alignment between output of lift motor to gear box input horizontally.

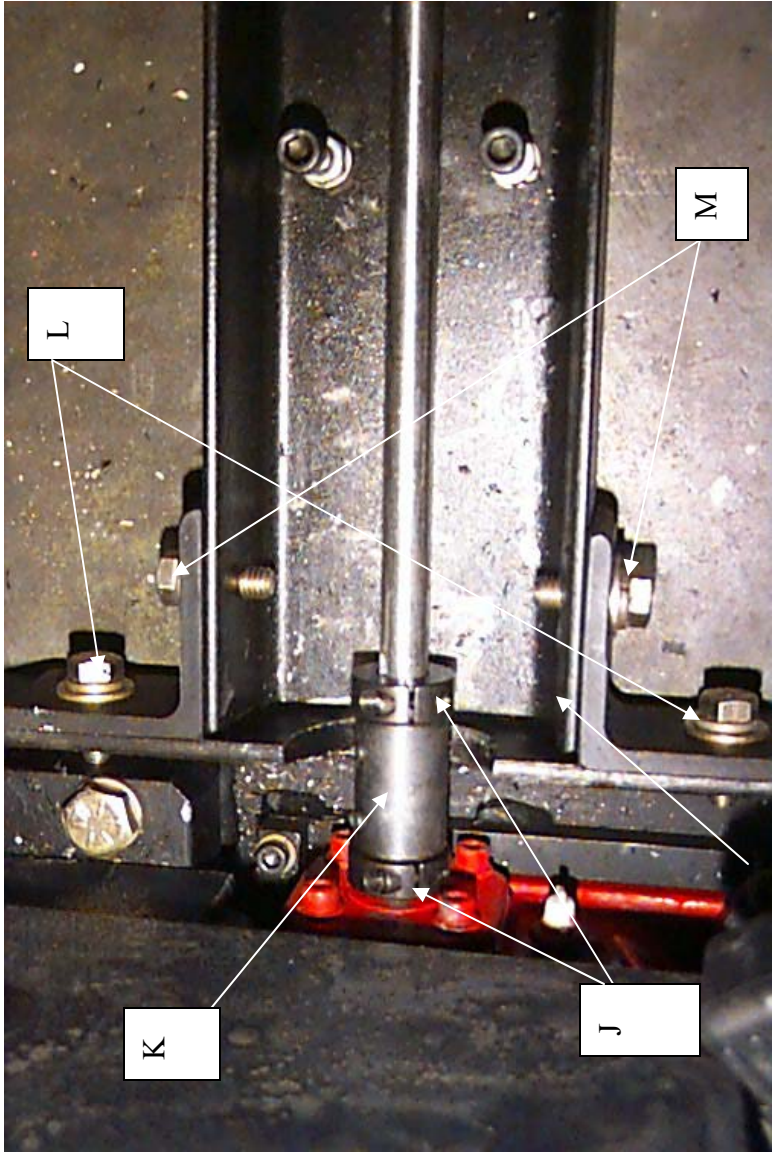
Measure distance from outside edge of lift drive shaft to edge of base "C" channel at the 90 degree gear box side.

Measure the distance from outside edge of lift drive shaft to edge of base "C" channel at the lift motor end.

Both distances must be equal to obtain lift shaft parallel alignment to base "C" channel. This will prevent abnormal wear and vibrations in the lift system.

NOTE! These solid couplings were later replaced with lovejoy flexible units. A swivel was installed to left input side of lift jack and 2.5 degree of movement star drive couplings installed on the lift drive shaft, output side of motor and input to 90 degree gear box.





Picture #3