

Service Bulletin: 04302008 (Mandatory)

Subject: Inspection of weld on keyed style motor mounted pitch shaft end.

To:

All owners/users of MaxFlight Electric Virtual Reality Machines with keyed style Pitch motor shafts. Units affected are EM-1 to EM-81 inclusive.

It has come to our attention that the weld holding the keyed output shaft stub onto the main pitch shaft, motor side, may have crack/s develop after years of use.

It is MaxFlight Corporations recommendation, for all owners/users to perform a mandatory inspection of the weld area and shaft, every six (6) months, using the dye-penetrant method of inspection.

Procedure:

1. Loosen/separate center electrical connections between pitch and roll signal ring connections.
2. Loosen pitch slip ring set screw at end of shaft, this will allow you to slide pitch signal ring from shaft end.

NOTE! Do not pull ring outwards using the cables. Pull on plastic insert only and have someone feed/push the cables from center or, you will damage the signal ring.

3. Remove split snap ring on end of shaft holding key inside the motor drive.
4. Key does not have to be removed from motor.

NOTE! You may have to spray between gear box, shaft and key area with WD-40 or other suitable penetrates to allow motor to move on the shaft.

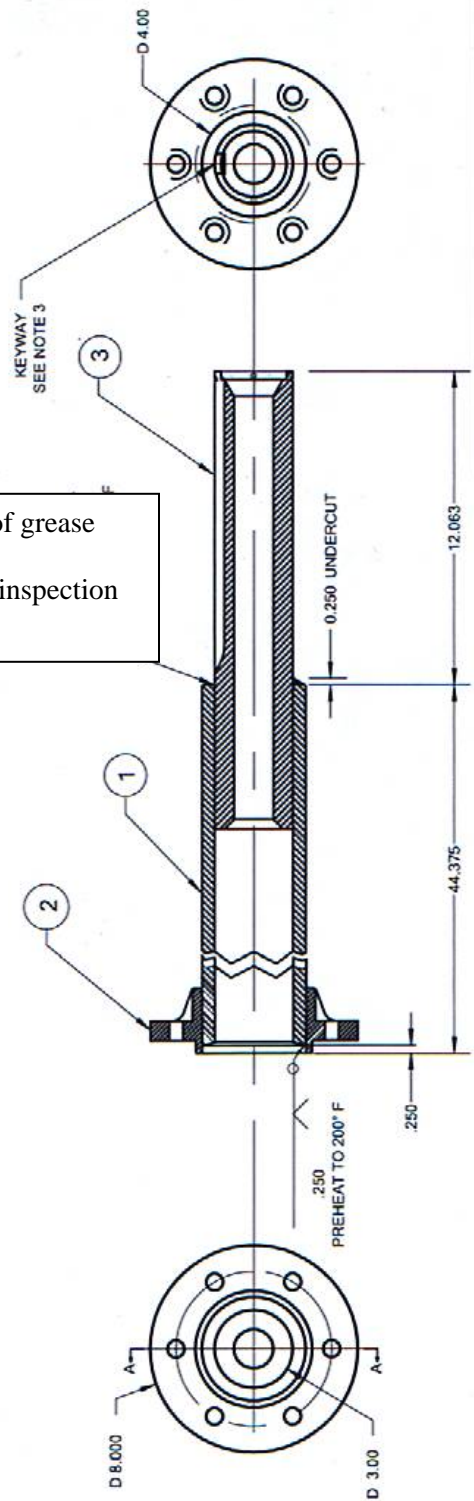
5. Pull motor and gear box combination outwards on shaft @ 3-4 inches, just enough to allow access to clean and inspect the welded area and shaft.
6. Clean the area thoroughly so the inspection can be accomplished.
7. After inspection, if no defects have been noted, re-install everything in reverse order.
8. If defects in weld or shaft are noted, stop using the machine and contact MaxFlight Corp.

All users of keyed pitch motor shafts are required to perform this inspection. If you note any defects, repairs are not authorized. If defect is noted replacement of shaft is the only repair authorized. Contact MaxFlight, Technical Support at 1-732-2007 ext 222 or 254 to order a replacement. Purchase orders can be sent to 1-732-281-2009, attention Carol.

Attachments: Drawings of part/s requiring inspection.

REVISION			
REV.	DESCRIPTION	DATE	APP.
001	REDRAWN	10-23-02	MJF

Clean the entire weld area of grease etc.
Perform the dye-penetrant inspection of entire weld.



ITEM	QTY.	PART NO.	DESCRIPTION
3	1	E2013	ELECTRIC PITCH INNER SHAFT, 'B' SERIES
2	1	E2021	PITCH/COUNTERWEIGHT SHAFT FLANGE
1	1	E2022	ELECTRIC PITCH SHAFT-MOTOR SIDE

PARTS LIST	
TITLE: ELECTRIC PITCH SHAFT ASS. (MOTOR SIDE- 1/2" WALL)	
MaxFlight Corp.	
TOMS RIVER, NJ 08755-4947	
FAX: (732)281-2009	
P.N: SE2002	DWG: SE2002
SCALE: NONE	DWN BY: MJF
MATL:	DATE: 10-23-02
APPROVED BY: <i>MJF</i>	DATE: <i>10/23/02</i>
APPROVED BY: <i>SPC</i>	DATE: <i>11/13/02</i>



- NOTES:
1. BREAK ALL SHARP EDGES.
 2. SIZES ARE IN INCHES.
 3. NOTE ORIENTATION OF KEYWAY.
 4. TOLERANCE IS ± 0.005 UNLESS NOTED.