

Support Documentation for

Mandatory
SB51399

Pitch Shaft Inspection

On all units that use either the square or round flat flanged pitch shafts. These flanges are welded on the outside of the flange.

In weekly and daily inspection checklist enter a requirement to perform a visual inspection on pitch shaft flanges. If found cracked no repair authorized, replacement of shaft only to new style.

MaxFlight Corporation requires a minimum of annual inspection of these type pitch shafts using the attached method of inspection. State or local governments may have stricter inspection requirements for amusement devices, these must be followed by individual owner/operators of MaxFlight units.

6-4 NONDESTRUCTIVE TEST LIQUID PENETRANT METHOD

Non Destructive test to the pitch shafts, are required only if you have the style as shown in the following diagrams or, the square ended instead of the round flat ended mounting flanges.

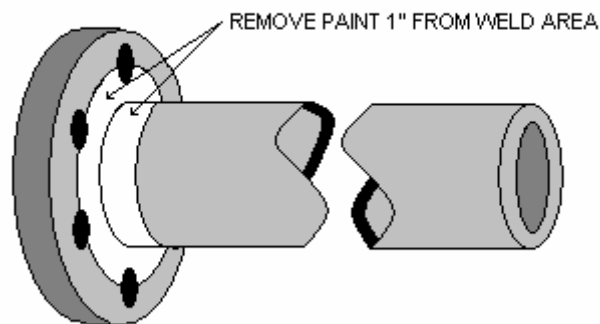
These test to be performed as required by state, local or regional governing directives.

The new style, which are beveled counter bored flanges and only welded on the inside, not outside, require no NDI inspections.

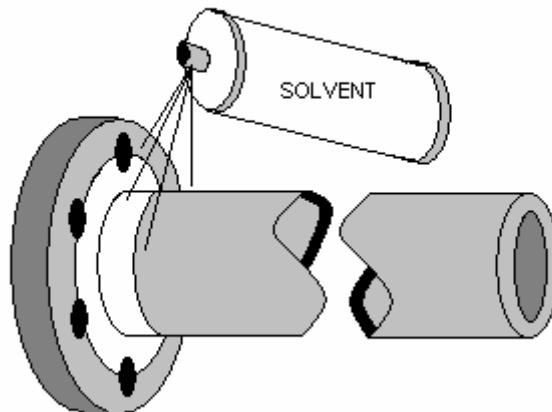
MaxFlight Corporation dictates, if you have the flat square or round mounting flanges, that they be inspected at a minimum of annual basis.

- Remove all paint a minimum of one inch of the weld area.
- Clean area with solvent and allow to dry.
- Apply penetrant to test area allowing ample time to seep into openings.
- Remove penetrant remaining on surface without removing the penetrant from openings.
- Apply developer.
- Visually examine the weld for penetrant indications in the developer coating.
- Once again clean the tested area of developer and any traces of penetrant.

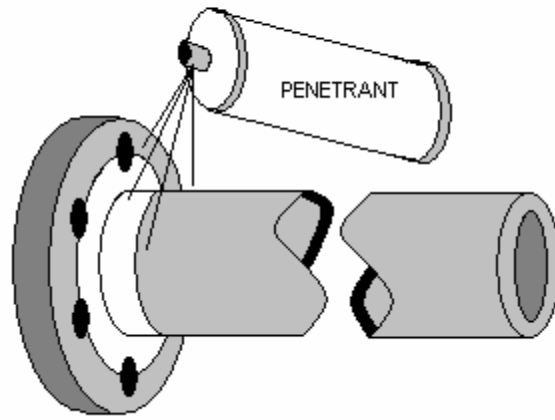
STEP 1



STEP 2



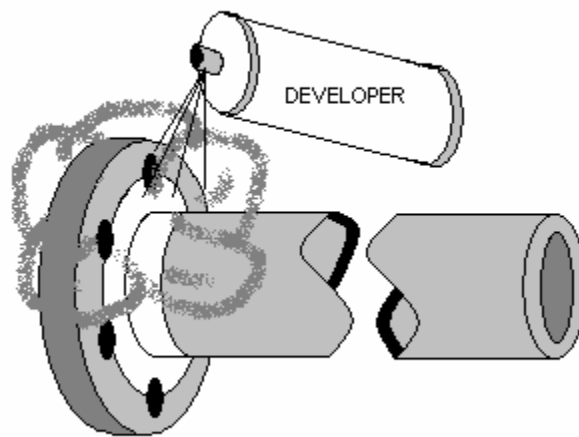
STEP 3



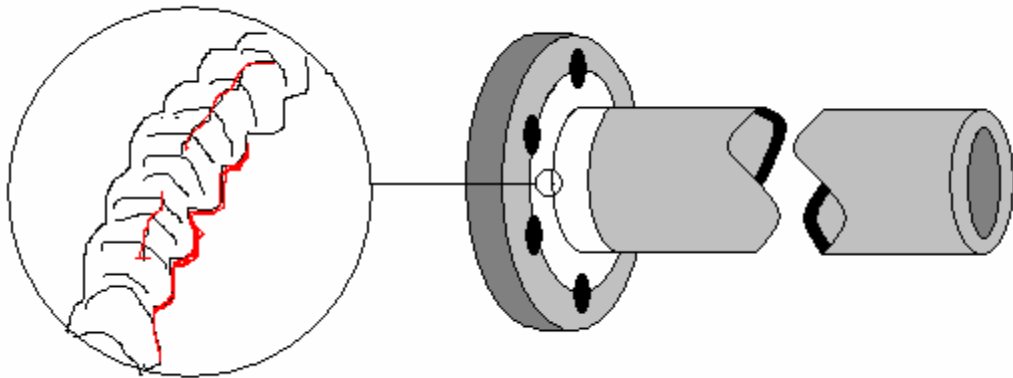
STEP 4



STEP 5



STEP 6



After inspection of all welds clean the remaining penetrant and developer for future inspections.