

ThermoFlex

Motor Mount Stiffener Upgrade ECO D181

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Revision History

Revision	Date	Author	Comments
A	Sept 27,1999	William Yuen	Initial Release

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1. SCOPE

This document describes the installation of a drum motor mount stiffener on ThermoFlex machines. The motor mount stiffener is intended to reduce imaging artifacts caused by natural resonance of drum motor assembly. This document is intended for fully-trained and qualified Creo service personnel.

2. SAFETY

Please exercise the following precautions when working on the ThermoFlex product:

- Pay attention to warning labels.
- Do not operate the write laser with the door open
- Do not stare directly at either the write or focus laser beams
- Do not place shiny objects in the path of either laser beam, which may reflect it into the eyes.
- Avoid skin contact with the write laser.

DANGER! Never operate a ThermoFlex recorder with the write laser beam on and a door open even if it is technically feasible to bypass the door interlocks.

3. TOOLS AND MATERIALS REQUIRED

In addition to the upgrade kit, you will need the following:

Metric Allen key set

Loctite 242

4. RELATED DOCUMENTS

Most related documents are available on the Creo Customer Support Technical Library, available on CD ROM from the Creo Service Desk or online at:

http://intranet.creo.com/support/

The following document(s) are referenced in this procedure and may be required:

05-0129-x-AD Motor Mount Stiffener Assembly Drawing

5. PROCEDURE

Item numbers referenced in the following procedure are related to the *Motor Mount Stiffener Assembly Drawing* (05-0129-x-AD).

5.1 Replacing the Drum Motor Fasteners

Note: The following procedure describes a sequence that will minimize changes to the drum belt tension. If for some reason the drum belt tension requires adjustment after the installation of the motor mount stiffener, please refer to the online service procedure for Adjusting the Drum Belt Tension.

1. Remove any media from the drum and initialize the machine using the `ALE INIT` command. Power down the ThermoFlex recorder. Gain access to the drum motor assembly by removing the front central panel followed by the left front panel.

2. The drum motor assembly is attached to the mounting plate with four M8x30 screws and four M8 heavy washers. Do not disturb the front two M8 screws (0040) and washers (0050).

3. Remove the rear (closest to the drum) two M8 screws and washers one at a time. Replace each with a M8x70 screw (0070) and spacer (0060). The longer screw and spacer maintain good service access once the motor mount stiffener components are installed.

5.2 Installation of the Motor Mount Stiffener

1. Remove the two mounting bars from the top surface of the motor mount plate. Each bar is fastened to the plate with five M6 screws.

2. Place two new side bars (0010) over the M6 tapped holes used for the items removed in the previous step. Locate the stiffener top plate (0020) on the side bars and align the mounting holes. Ensure the counter bored holes in the top plate face upwards and the machined slots align with the motor mount fasteners.

3. Fasten the stacked parts (0010) and (0020) with ten M6 screws (0030) supplied. Be careful not to over torque these fasteners. The counterbores are intended to fully maximize the allowable thread engagement and do not necessarily sink the screw heads flush with the surface of the plate.

5.3 Checking the Installation

4. Spin the drum by hand. Feel and listen for excessive belt noise or belt rubbing.

5. Place the safety interlock switch to the “Laser/Mechanical Hazards” position. Re-power the ThermoFlex recorder and initialize the machine with the `ALE INIT` command. Spin the drum at various speeds ranging from 30 rpm to 100 rpm using the `DRUM SPIN XXX` command. Where xxx is the desired speed in rpm. Check the motor and stiffener components for vibration and noise.

6. Reinstall all panels and remove the safety interlock key from the switch.

7. Produce a diagnostics plot containing screens between 70% and 90%. You may check the effectiveness of the motor mount stiffener against a previous plot made with the original stock motor mount.