

Removing/Installing X-motor and Toothed Belt

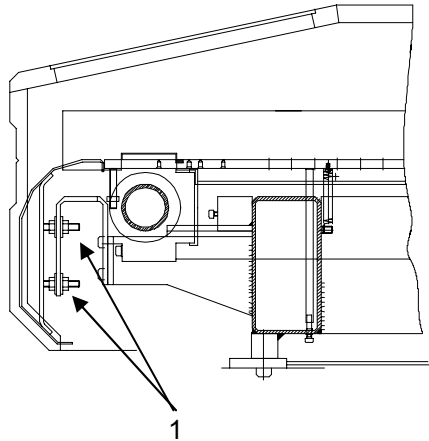


Fig. 1

Tools required:

- Screw driver
- 2 mm Allen key
- 2,5 mm Allen key
- 3 mm Allen key
- 10 mm ring wrench or open-end wrench
- 13 mm ring wrench or open-end wrench

The drive system consisting of X-motor, encoder, gear and drive roll for the X-axis is located on the right front of plotter.

Replacing the X-motor:

1. Remove front cover (Fig. 1/1) and the protective cover below X-drive (Fig. 2).
2. Loosen the 4 screws of the motor support (Fig. 3/1) . Remove encoder.

In order to withdraw the toothed belt or to remove the motor the intermediate stage of the gear must be partly dismantled.

3. Loosen lock nut of pressure screw (Fig. 4/1) and uncrew it until the spring releases the swivel bearing plate.

4. Remove holding plate (Abb.4/2) at pivot and pull out swivel bearing together with plate. If jammed carefully knocking on it or use a screwdriver from behind.

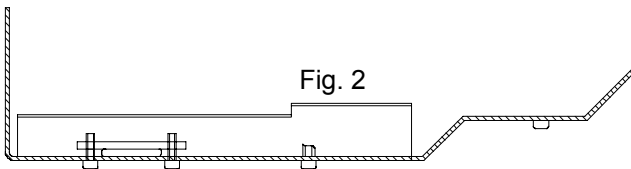


Fig. 2

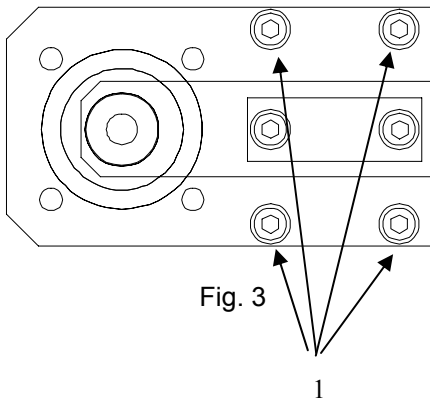


Fig. 3

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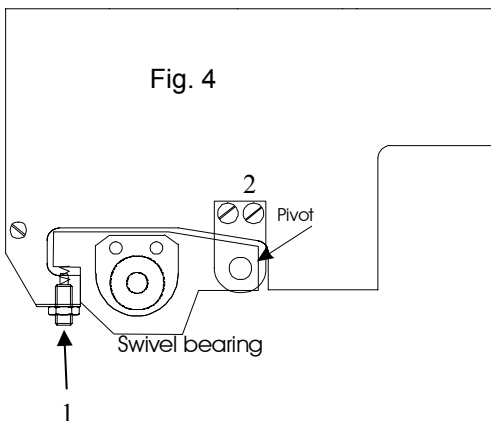


Fig. 4

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Removing/Installing X-motor and Toothed Belt

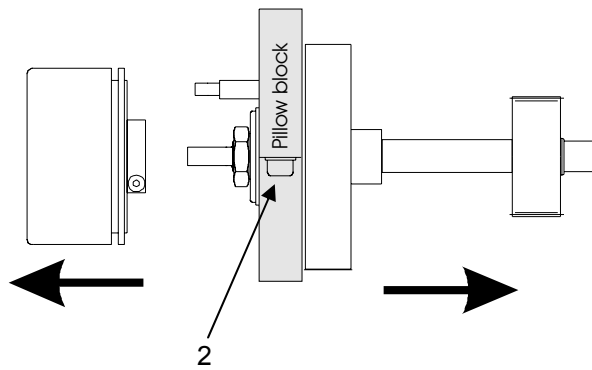


Fig. 5

5. loosen bearing clamp screw (Fig. 5/2).

6. Shift intermediate axis to the right.

7. Remove motor together with toothed belt.

Attention: Do not tighten bearing clamp screw (Fig. 5/2). It must be possible to turn the bearing easily and without resistance after tightening.

Both pinions must be mating perfectly (no offset to side).

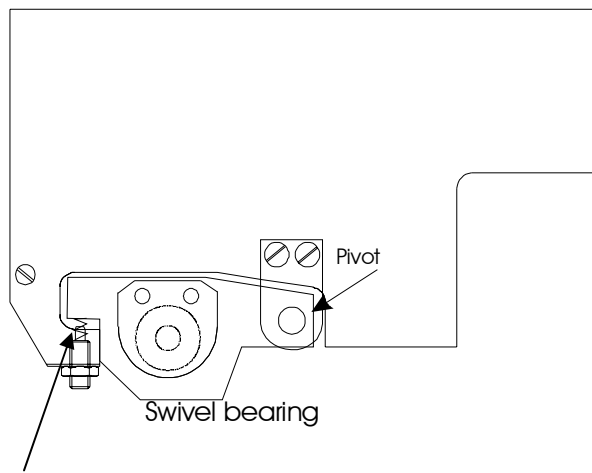


Fig. 6

8. Put on swivel bearing plate, screw on support plate to pivot and insert pressure spring and screw. Tighten screw until an air gap of approx. 2-3 mm remains between bearing plate and screw (Fig. 6/1).