

Stub Axle Installation [with kit K-Ath1]

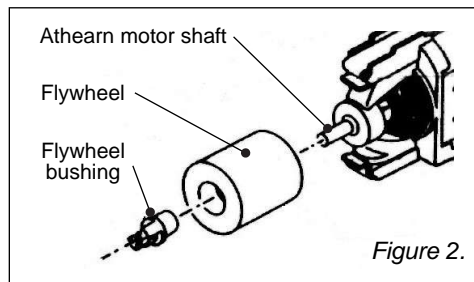
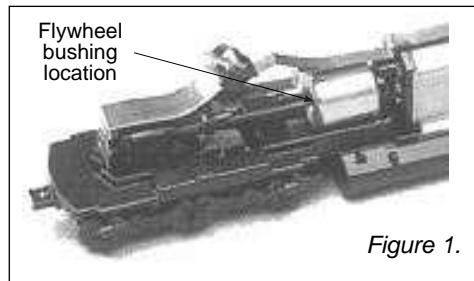
Related Document(s) : Document # 31001 : "Installation Kit K-Ath1"

*The stub axles are contained in the ATC Assembly package.
The stub axle securing glue is provided in Installation Kit K-Ath1*

Step 1 Remove Flywheel Bushings

[Refer to Figures 1 & 2.]

- Remove motor as described in Document # 31001
- Remove both flywheels from motor. The flywheels are a friction fit to the motor shaft and may be removed :
 - By holding a flywheel in each hand and twisting ... at least 1 flywheel will loosen. Then place the free motor axle in a vice and twist the 2nd flywheel free, or,
 - By using a 2mm pin punch fed through the flywheel bushing, tap the motor shaft free of the flywheel, and repeat for other end.
- Using a 1/8" pin punch (or drill shank) inserted into the shaft end of the flywheel, ease the flywheel bushing from the flywheel. Repeat for other flywheel.

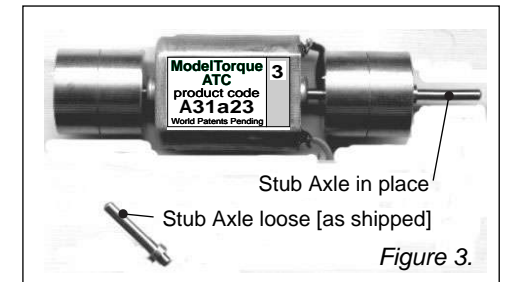


Step 2 Fit flywheel bushings to ATC stub axes

[Refer to Figures 3 & 4.]

- Trim length of both stub axes by cutting at 5mm from end. De-burr cut and chamfer to about 45°
- Cut 2 x 4mm lengths of silicone tubing.
- Squeeze one of the silicone rubber pieces about halfway into the Athearn flywheel bushing.
- Push the trimmed stub axle into the tubing until the rubber is fully inserted and the bushing is flush with the brass collar on the stub axle. Repeat with other stub axle & bush.

The stub axles are now ready for fitting to the ATCs

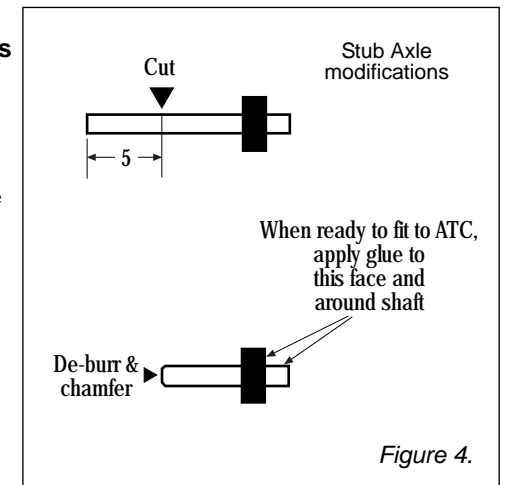


Step 3 Fit prepared stub axes to ATCs

[Refer to Figures 3 & 4.]

- Using a thin wire, lift a small drop of the green glue supplied in the fitting kit.
- Smear glue around the bottom side of the stub axle brass collar and around the short shaft.
- Hold the prepared stub axle by the fitted bushing and insert the short end into the centre end hole of one of the ATCs. Hold still in this fitted position for about 15 seconds for the glue to set. Repeat for other stub axle.

NOTE : The glue is anaerobic and begins to set in about 10 seconds, reaching full strength in about 10 minutes.



Please note that the distance between the outside ends of the Athearn bushes is about 82 mm ... the same distance as when fitted to the original Athearn motor assembly. The finished assembly will connect to the remainder of the existing cardan shaft arrangement without further modification.