

SERVICE BULLETIN NUMBER: SB00100

ISSUE 1

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DATE:

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TITLE:	PEGASUS QUASAR AND QUANTUM FUEL TANK STRAP			
CLASSIFICATION:	QUASAR AND QUANTUM PRE 1998: OPTIONAL			
	TANKS FROM 1998 ON :	COMPU	LSORY	
COMPLIANCE:	INSPECT FOR LEAKS BEFORE FLIC	GHT. INS	STALL STRAPS WITHIN 50 HOURS.	
APPLICABILITY:	PEGASUS QUASAR AND QUANTU	JM ALL N	MODELS.	

INTRODUCTION:

The original Quasar and Quantum rotation moulded plastic tank material was cross linked polythene. Problems with tank leakage were very rare with this material. The original material was withdrawn from use because of health & safety concerns during processing. The super linear polythene now used has given problems with environmental stress cracking (ESC) due to the effect of fuel, in some fuel tanks. Flourinating the tank to reduce the effect of the fuel has not proven totally successful. The tendency of the tank to crack due to ESC may vary with different fuel blends and additives used in different countries.

One way of preventing ESC is to reduce the stress to a very low level where cracks cannot propagate. The tank was originally designed to be supported on ledges moulded into each end of the tank. Cracks occur at the centre root areas of the front and rear ledges.

A strap system has now been designed to lift the tank off the ledges and give additional support. The stress on the ledges is reduced to an extremely low level where cracks do not propagate.

Leakage of fuel from the tank is probably most hazardous inside a closed building with an ignition source, e.g. a garage with a domestic boiler. Always drain fuel in a well ventilated area.

ACTION:

1) Remove the trike skirt from the pod. Drain fuel to ¹/full or less.

2) Inspect the tank front and rear areas for leakage& signs of cracking where the tank lugs protrude near the tank

centre, areas A & B on the drawing overleaf

3) At the front of the tank, where the seat frame bracket is attached, there is an 8mm bolt (area C on the drawing).

Fit a self adhesive nylon protection pad HTM-002 to the tank to prevent damage to the tank wall by the bolt tail.

4) Fit the retaining straps as shown in the drawing overleaf. Tighten sufficiently by hand to just raise the tank

ledges off the support tubes.

5) Refit skirt, enter "SB 0100 (fuel tank strap) carried out" in the technical log.