

EBSRAY RX10 PUMPSET REPLACEMENT PROCEDURE

THESE INSTRUCTIONS ARE FOR THE REMOVAL AND RE-INSTALLATION OF THE EBSRAY MODEL RX10 SUBMERSIBLE LPG PUMPSET WHEN IT HAS BEEN ORIGINALLY INSTALLED IN ACCORDANCE WITH MODEL RX10 INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS.

ALL WORK MUST BE CARRIED OUT BY QUALIFIED COMPETENT PERSONNEL STRICTLY IN COMPLIANCE WITH ANY RELEVANT STATUTORY CODES AND REGULATIONS.

REPLACEMENT OF RX10 PUMPSET MUST BE STRICTLY IN ACCORDANCE WITH MODEL RX10 INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS WITH PARTICULAR ATTENTION TO THE FOLLOWING:

ALIGNMENT OF PUMP INLET PORT WITH PUMP HOUSING INLET PORT IS CRITICAL AND SHOULD BE CHECKED WHENEVER A PUMP IS REINSTALLED RATHER THAN RELYING ON THE ALIGNMENT OF THE PUMP IN THE ORIGINAL INSTALLATION. FAILURE TO CORRECTLY ALIGN THE PORTS WILL RESULT IN DIMINISHED PUMP PERFORMANCE AND MAY LEAD TO PREMATURE PUMP FAILURE

REMOVAL OF RX10 PUMPSET FROM SYSTEM

NOTE

Some items will have to be discarded and replaced with new items for re-installation, items needing replacement are as follows:

All used gaskets, seals, O rings etc

3/4" OD x 1.6mm wall SS ELECTRICAL CONDUIT (22) (length as required)

TUBE FITTING Kit (6 or 7) (Straight #K850500 or Angle #K850501)

Conduit Seal (4B) (#C860421)

(Item numbers refer to typical installation P & ID as included in the EBSRAY R Series Model RX10 Installation, Operation and Maintenance Instructions)

PROCEDURE

- 1 Turn off power.
- 2 Isolate all pressure connections to pump and pump housing.
- 3 Close the main pump housing inlet valve (25), PPV isolation valve (15), main discharge valve (23) and the two isolation valves (18) to the DPS switch.

Danger

Remove all LPG from pump housing in an approved manner, never remove any fittings without first ensuring housing is de-pressurised and free from flammable gas.

(Liquid LPG may be purged from the pump housing by pressurising the pump housing with pressure regulated nitrogen while the main pump housing inlet valve is open. This method reduces the amount of LPG that has to be vented. Main pump housing inlet valve must be closed immediately after purging while pump housing is still pressurised with nitrogen)

- 4 Disconnect and remove tubes from DPS (seal ends and put aside to prevent damage).
- 5 Cut wire seal (4B) in half with a hacksaw. (refer Figure 1)
- 6 Remove junction box cover.
- 7 Disconnect 5 motor leads from terminal strip and unscrew remains of wire seal from tube fitting and hex nipple.
- 8 Cut through tube fitting (6C or 7B) (1" M NPT C850540). (refer Figure 1)
- 9 Disconnect external pipework from riser.
- 10 Unscrew remaining part of tube fitting from riser.

- 11 Remove pump housing cover fasteners.
- 12 Lift pumpset assembly vertically using a suitable sling etc attached to pump discharge riser.
- 13 Lie pumpset assembly horizontally ensuring support for pumpset and pipework.
- 14 Remove three grub screws from pump connector housing.
- 15 Unscrew pipework from connector housing.
- 16 Using a 29mmAF x 27mmAF tube spanner, remove nut from 3/4" NPT compression fitting.
17. Remove conduit from pumpset.

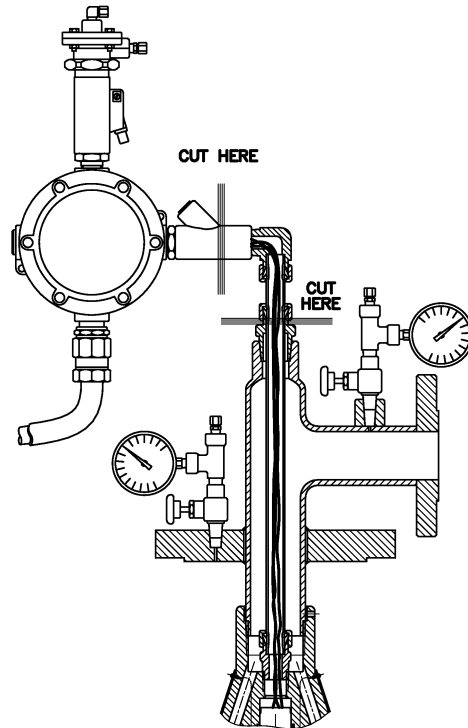


Figure 1

INSPECTION

- 1 Inspect pumpset, look for and record any signs physical damage e.g. scraping or distortion caused by welding intrusions etc. in pump housing.
- 2 Inspect inside of pump housing and remove any debris.
- 3 Inspect pump inlet and discharge ports for any signs of contamination from foreign substances which may be, or have been, present in the liquid being pumped.
- 4 If any foreign matter or damage is noticeable, take measures to prevent a recurrence and refer to EBSRAY for assessment and advice.

INSTALLING NEW PUMPSET

Strictly follow **ALL** requirements in RX10
INSTALLATION, OPERATION AND
MAINTENANCE INSTRUCTIONS

EBSRAY PUMPS PTY. LIMITED
ABN. 52 000 061 003

Head Office and Works
628 Pittwater Road
Brookvale N.S.W. 2100
AUSTRALIA
Phone: (+61 2) 9905 0234
Fax: (+61 2) 9938 3825



Branch Office Victoria
Phone: (03) 9706 7263
Fax: (03) 9706 7312

Branch Office Queensland
Phone: (07) 3260 7411
Fax: (07) 3260 7422