



**Lift and Escalator Industry Association**

33-34 Devonshire Street London W1N 1RF  
Tel: 0171 935 3013 Fax: 0171 935 3321

To: All Members

cc: The Quality and Technical Committee (Code No: QTC-125)

27 January 1998

Dear Sir

**MODIFICATION TO MARRYAT & SCOTT ELECTRO-HYDRAULIC F.A.P.B.,  
TWO FLOOR U.S.E. PUMP AND MAXTON VALVE, STAR/DELTA STARTING,  
WITH HARRIS PREBLE SHUTTER GATES**

I enclose a safety information sheet received from Kone Lifts Ltd which I trust will prove self-explanatory.

Please be guided accordingly.

Yours faithfully

A handwritten signature in black ink, appearing to read 'D M Fazakerley', written over a horizontal line.

D M Fazakerley  
Director

DMF/ALC



KONE LIFTS LTD	Subject <u>Modification to Marryat &amp; Scott Electro-Hydraulic F.A.P.B. Two Floor U.S.E. Pump &amp; Maxton Valve, Star/Delta Starting, with Harris Preble Shutter Gates. Ref: Drawing IO 3673</u>				CODE: SN 10.01.05
					Pages: 1 OF 5
					SAFETY CATEGORY A
DEPT. TECH.SUPP	DATE 22.1.98	COMPILED BY A J Shiner	CHECKED V J Kaura	APPROVED <i>Asstle</i>	ISSUE A

The attached modifications must be carried out in accordance with the detailed instructions.

This modification must be carried out at latest during the next maintenance visit.

**Modification to Electro-Hydraulic F.A.P.B. Two Floor U.S.E. Pump & Maxton Valve, Star / Delta Starting, with Harris Preble Shutter Gates. Ref to Drawing LO 3673.**

These controllers have fitted a Harris Preble Shutter Gate. a fault was reported where the Lift ran normally with the Doors Open, caused by the relay 60 sticking IN.  
A site modification was carried out which resulted in the Klockner- Moeller relay being changed to a different type and contacts of relay 60X added in the circuits shown on the diagram copy

This modification results in the requirement that two contacts of separate relays need to fail before a similar fault could occur.

If an additional modification was carried out, the addition of another relay (SR) it would now check that the 60 & 60X relays drop out each time after a run before a new travel is allowed, Relay SR is itself check for sticking IN by the fact that no more calls would be allowed and hence no more travel could occur. Releveling would still be operatable. This modification is as follows:-

**Stage 1** Addition to the circuit feeding Relays 60 & 60X.

Relay SR added and contacts of 60 (72-71), 60X (71-72) & SR (13-14) wired as shown.  
When ever a new call is allowed relays 1 or 2 energise, provided both 60 & 60X have dropped out from the last travel relay SR (Safe Relay) will energise. The contact of SR maintains itself for as long as relays 1 or 2 remain energised.

**Stage 2** Addition of SR contact to the Valve Control circuit.

A modification has already been carried out adding a contact of 60X in series with relay 60 (53-54).  
Add an additional contact of SR in series with 60X & 60 as shown, making sure relay 17 (43-44) overconnects all of the 60X, 60 & SR contact.  
All 60X, 60 & SR contacts must energise before the Valves can operate.

**Stage 3** Addition of SR contact to the Star Delta Control circuit.

Add an additional contact of SR in series with 60 as shown, making sure relay 17 (33-34) overconnects both the 60 & SR contact. Both, 60 & SR contacts must energise before the Star Delta Control can energise.

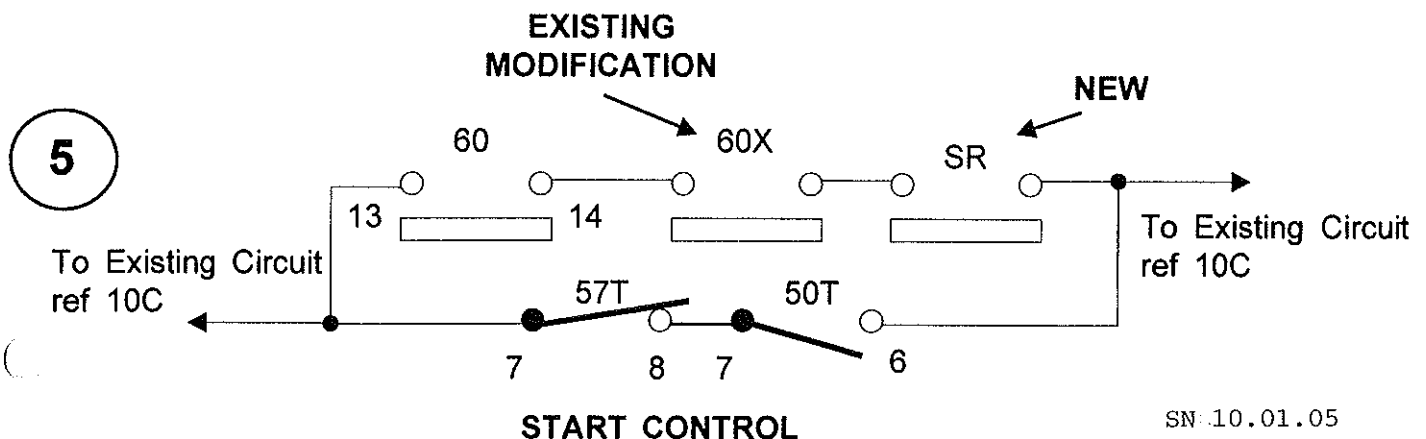
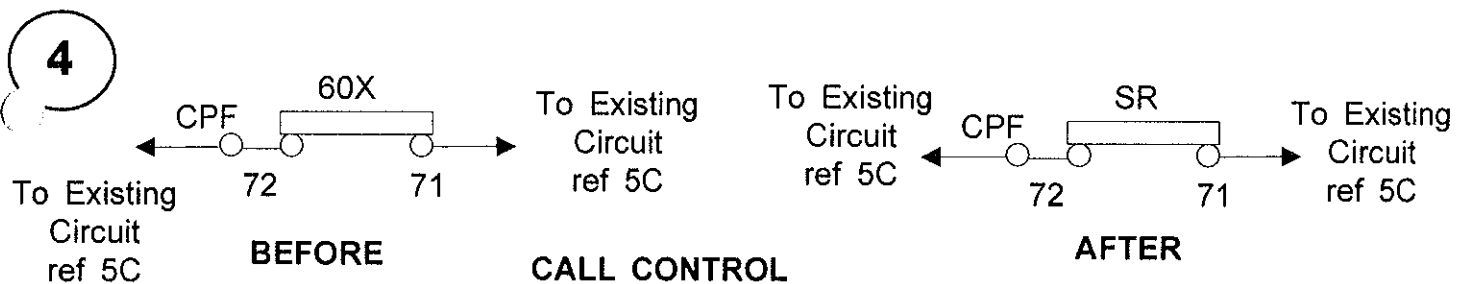
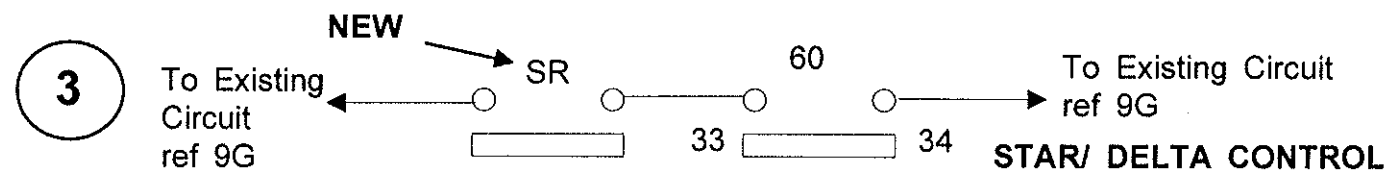
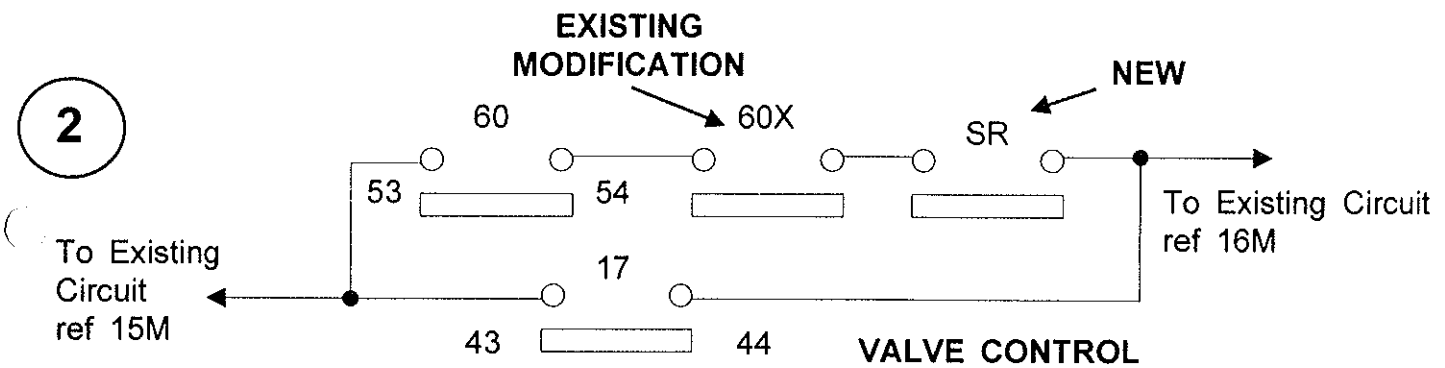
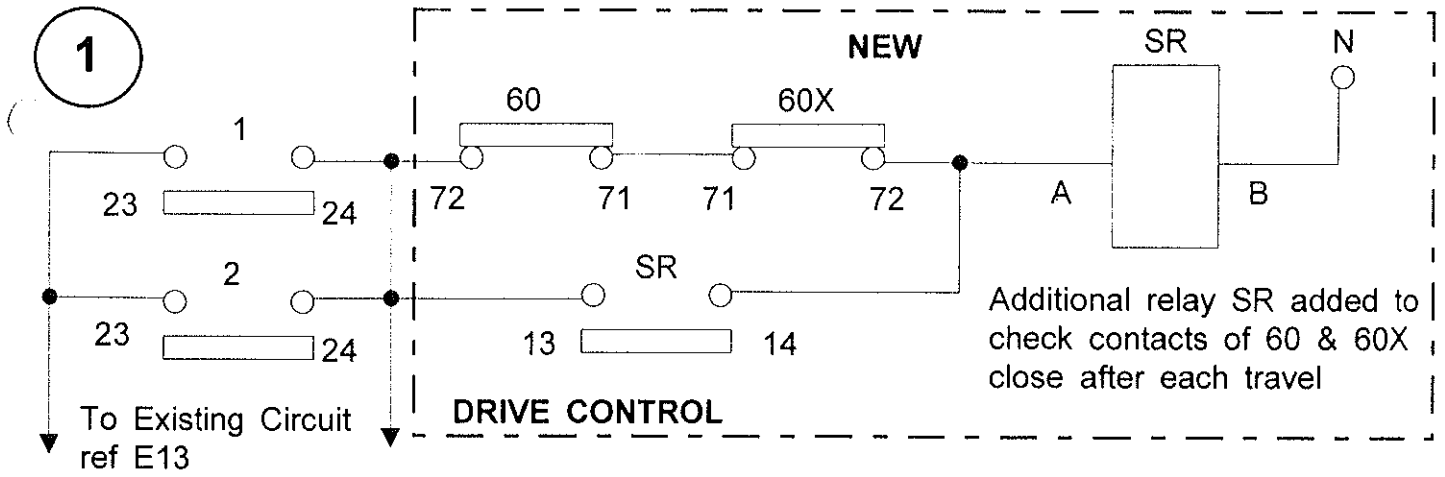
**Stage 4** Change of 60X (72-71) contact to a SR contact in the Call Control circuit.

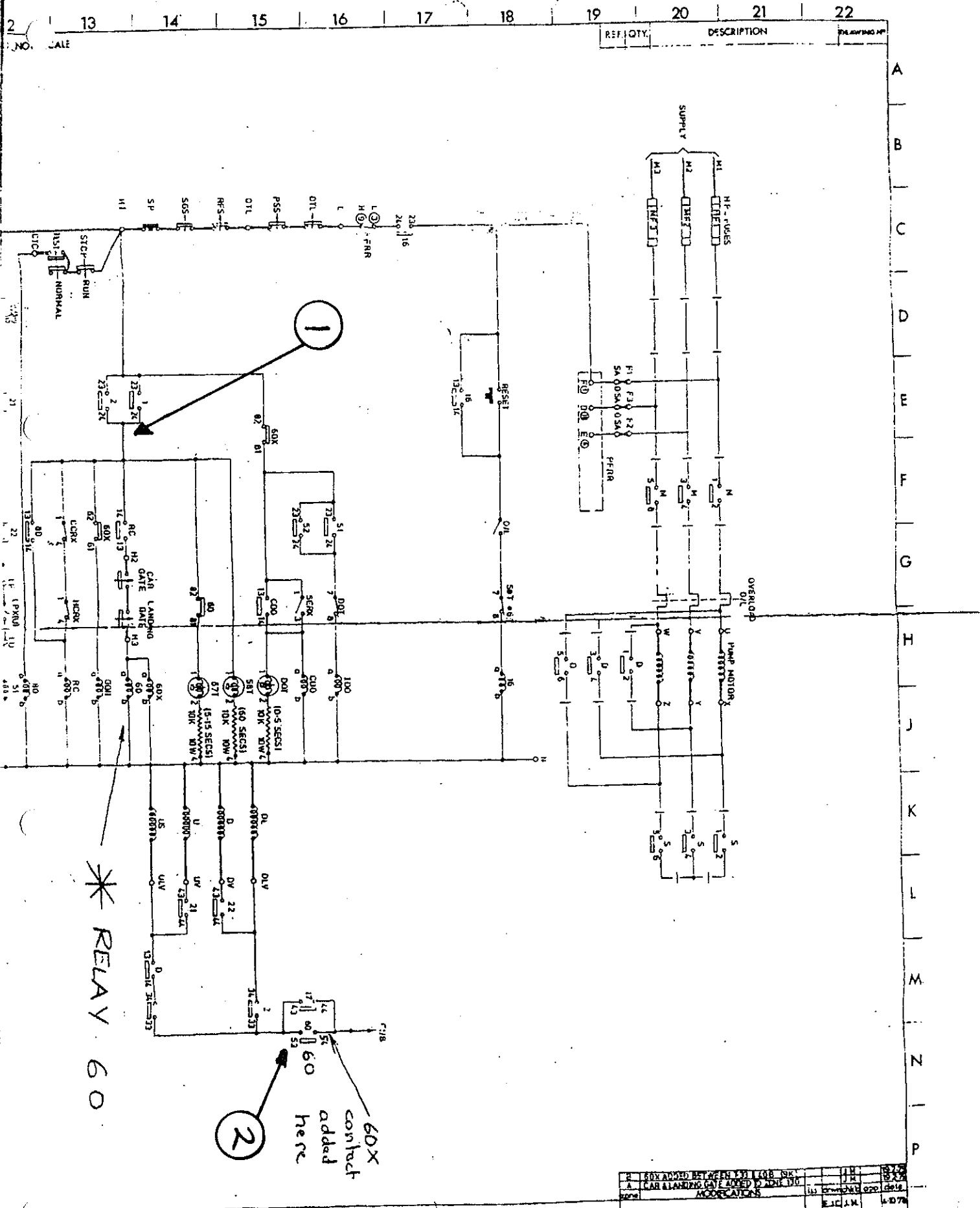
By changing this contact it is not possible to move to a new call if the SR relay 'sticks IN, but Releveling is still possible.

**Stage 5** Adding additional contact of SR to the Start Control circuit.

If 60 or 60X remain energise it is not possible to move as the SR relay will not be energised.

Modification to Electro-Hydraulic F.A.P.B. Two Floor U.S.E. Pump & Maxton Valve, Star Delta Starting, With Harris Preble Shutter Gates. (Drawing LO3673)





\* RELAY 60

60X added contact here

KEY DIAGRAM  
 STAR DELTA STARTING, HARRIS PREBLE SHUTTER GATES

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE STATED	SECTION 22-3
DESIGN NO. 10 3673	DATE 10-1-70
DESIGNER	DRG. NO.
CHECKED	DATE
APPROVED	BY

