

**Important maintenance
information for Flex colour
changer assembly**

coemar

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1. Scheduled maintenance

Note: the maintenance advice provided in this manual will prove useful in developing a scheduled maintenance procedure for your Flex luminaire. Whilst every possible precaution has been taken to ensure long, trouble-free operation of your projector, we recommend regular, scheduled maintenance be undertaken. In particular, we recommend regular cleaning of the colour change module.

To ensure smooth operation of the colour change unit, it is necessary to undertake maintenance every 500 working hours. Maintenance schedules should take into consideration the physical environment in which the projector is used: if the environment is particularly dusty, it may be necessary to schedule maintenance as soon as every 200 hours. On the other hand, if the operating environment is particularly clean, the maintenance period may be extended to as much as 1000 hours.

The use of lubricants which are not suitable for high temperature operation may seriously compromise the operation of the colour change module. We recommend that only Coemar authorised and approved lubricants be used for this purpose.

Any damage caused by failure to follow the recommendations made in this manual will not be covered by the manufacturer's warranty.

2. Maintenance procedures

1) Turn off the projector if it is on and remove the colour change module by undoing the wing nut, as shown in the diagram



2) Position the colour change module on a flat work surface, taking great care to damage or bend the black out blades located at the rear.

3) Use a soft cloth dampened with an appropriate nitrate cleaning solution to clean the filter guides, removing any impurities which may have lodged there. If necessary, you may need to dismantle the guides to do this (this is recommended for particularly dirty guides) It is also possible to clean the dichroic filters using a soft clean cloth dampened with alcohol or spirits.

4) After having cleaned the guides, it is recommended that they have lubricating oil placed on them. Using a small brush, brush the oil (Coemar code MV6175) across the eight guides surface. (see fig.1 and fig.2)

Fig.1

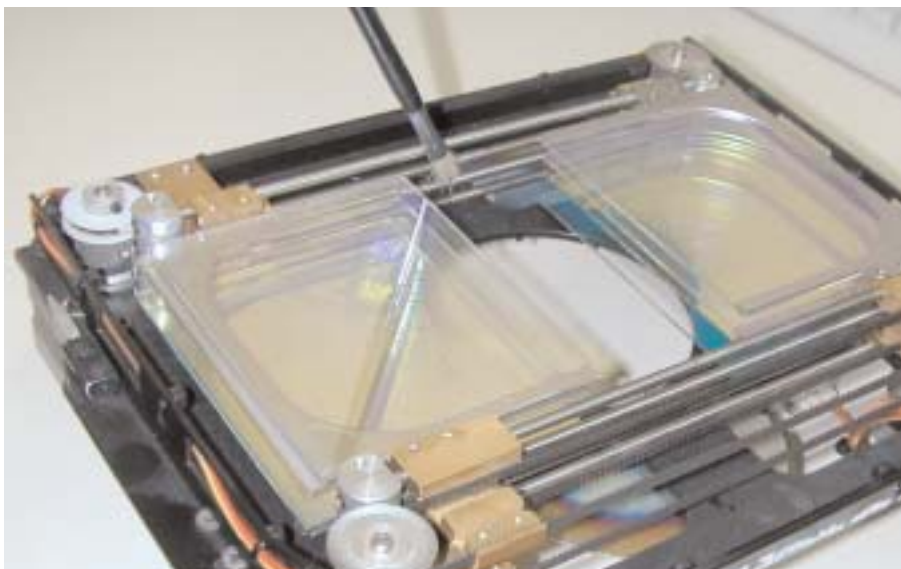
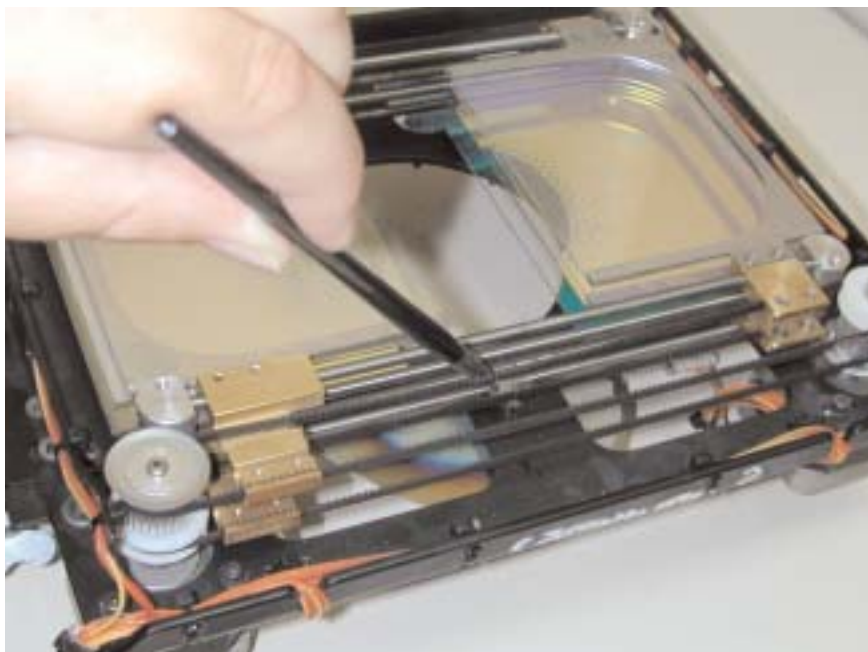


Fig. 2



5) After having carefully carried out the cleaning and lubricating procedure, we recommend that you connect it up using the extension connector cables, which Coemar can supply upon request as an accessory (KIT83). We recommend that connectors number 42 and 44 be disconnected on the main board, in the base of the projector, to eliminate pan and tilt movement of the unit during this procedure. Turn on the projector after having attached the connectors and test the functioning of the individual colours. For additional information regarding the testing procedure for the colour change unit, refer to point 8 below.

6) If the colour change unit is operating correctly, with colours sliding along the guides with no difficulty, maintenance has been carried out correctly. Turn off the projector, disconnect the extension connector cables, and replace the module into its correct position within the projector.

7) If any problems are found with the colours sliding along their guides, repeat the procedure as outlined from point 1 above.

N.B. We remind you that this procedure must be carried out at least every 500 hours of operation, or earlier as required. Note that the filter guides can quickly become dirty and therefore operate at less than maximum efficiency if the unit is operated in particularly dirty and dusty conditions or in close proximity to smoke and other effects machines. Too much lubricant on the guides can cause the colour filters to become dirty and this can contribute to the breakage of the filters.

8) It is possible to test individual channels without the use of a DMX control console by carrying out the following steps. Press the MENU button and then the + or - buttons until the letters MEAS appears on the digital display panel of the unit. Press the ENTER button to confirm your selection. Press the + or - buttons until the letters TEST appears, then press the ENTER button to confirm your selection. Press the + button until the letters identifying the colour you wish to test (CYAN, MAG, YELL or CTO) appear in the display. Remember that by pressing the + and then the - button will take the display to the highest achievable value instantly. Pressing the - button and then the + button will take you to the lowest value.

3.Spare parts

All the components of the colour change module are available as spare parts from your Coemar service centre.

Specifying correctly and in detail the projector model and the part required will assist the service centre in quickly and accurately meeting your request.

4. Frequently Asked Questions

Question	Possible cause	Possible solution
I cleaned the colour changer but after a test I checked that some filters don't slide appropriately	The colour changer was particularly dirty	Repeat once again the cleaning process paying attention to the section 3 of the Maintenance Process
After repeating several times the maintenance process one filter still jerks forward	The problem is not due to the staff cleaning	Verify if the motor that controls the filter movement is correctly working. To make this test loosen the fixing screws of the filter and remove the filter, then test the functioning of the motor following the right procedure explained in detail in the User Manual
Since last time I had made the maintenance I noticed that the filters are very dirty	Too much lubricant on the staff	Do not add big quantities of lubricant on the staff: all in excess could strain and dirty all is around the staff as well as the filters. To clean them use a clean cloth or alcohol soaked paper. The lubricant on the diaphragm filters could cause their break
I made the maintenance of the colour changer few time ago and the filters don't slide appropriately yet	<p>The maintenance has not been done correctly</p> <p>The unit where is fixed the colour changer is in a dusty setting (for example in a circus)</p> <p>The unit where is fixed the colour changer is nearby a smoke machine</p>	<p>Repeat the maintenance process from the first step</p> <p>In this case it's necessary to make the maintenance at shorter intervals</p> <p>We suggest to move the smoke machine or simply change its flow direction</p>