Avolites Ltd.
Engineering Change Notice

Title	Diamond 2/3 encoders
ECN Number	ECN-0117
Equipment	Diamond 2/3
Author	Adam Proffitt
Drawing Number	
Date	16/05/00

Reason for ECN	Encoders – used for changing moving light parameters – can have erratic operation.
Special Parts required	2 off 22uF (10V or greater) electrolytic capacitors
Special Tools required	M2 hex key. M3 nut runner.

Work Required

Undo the Dzus fasteners which secure the program panel (the one with the wheels).
Locate the WCP (Wheel Control Panel) circuit board next to the LCD screen.

Remove the wheels (with M2 hex key) and circuit board (with M3 nut runner) and solder
the capacitors (note polarisation) to the underside of the ic sockets of IC1 And IC2 (74LS374).
(see photograph below).
Replace the circuit board, wheels and re-do the Dzus fasteners.

Alternatively, if in a hurry, you may wish to do the following (no need to remove wheels
or circuit board):
Remove IC1 and IC2 (74LS374).
Solder 22uF capacitor between top (so that ic will go back in socket) of pins 10 (ive)
and 20 (+ive).
Replace the ics and re-do the Dzus fasteners.

22 microfarad
electrolytic
Capacitor

Negative on
Pin 10