Connoisseur

BD103
Transcription Unit

OPERATING INSTRUCTIONS

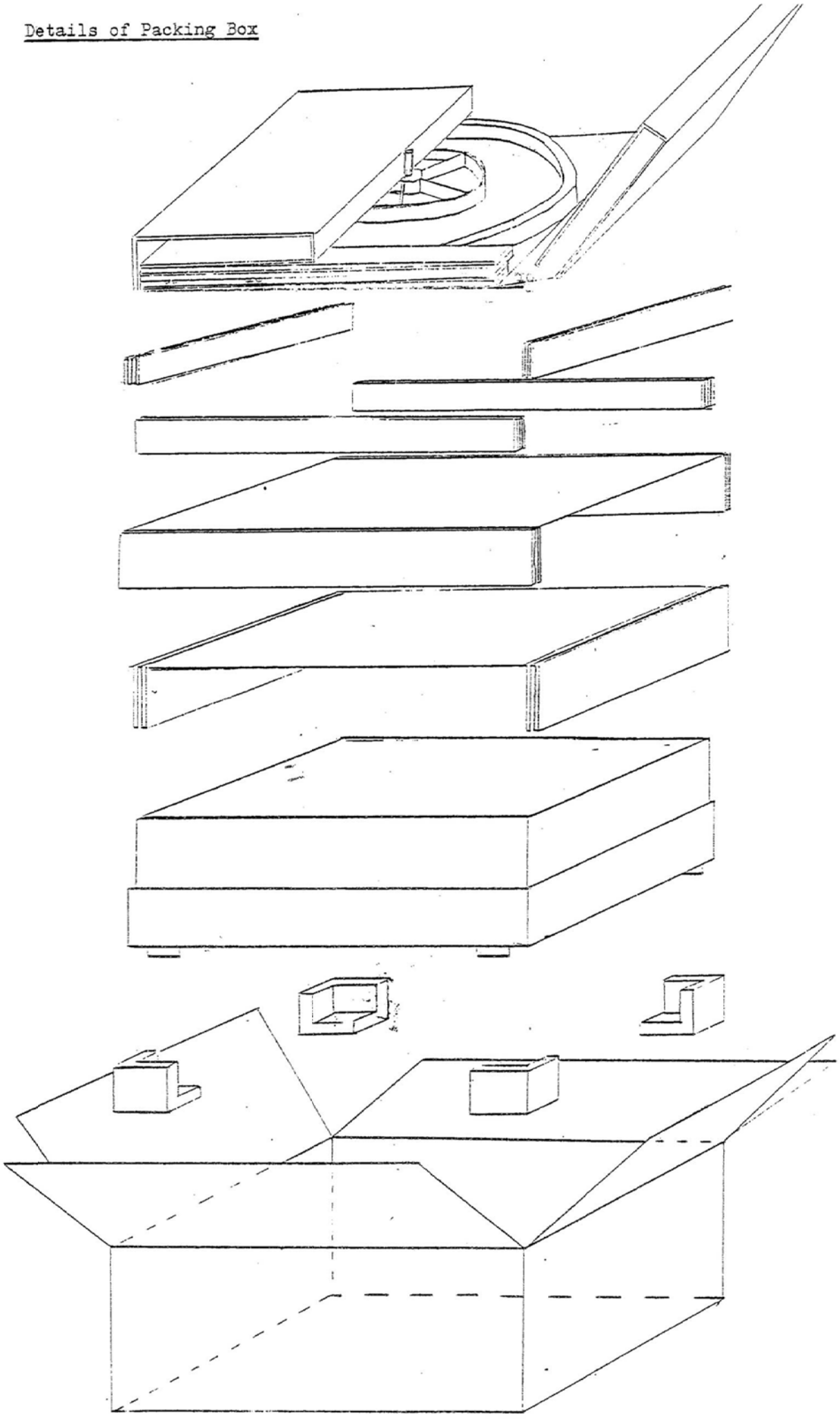
Sole Manufacturers:

A. R. Sugden & Co. (Engineers) Ltd., Brighouse, West Yorkshire, England, HD6 1ES

Telephone: 0484 - 712142 Telex: 517144

Printed in England

Details of Packing Box



The carton and packings of the BD102 are designed to ensure that your turntable arrives in good order. They should be retained and used, as shown in the diagram, if the unit has to be transported again. The motor should be secured with the two transit screws and the turntable removed from the centre bearing. The pick-up counterbalance weight should be removed and the pick-up tube secured to the arm rest. Failure to pack correctly could invalidate the guarantee.

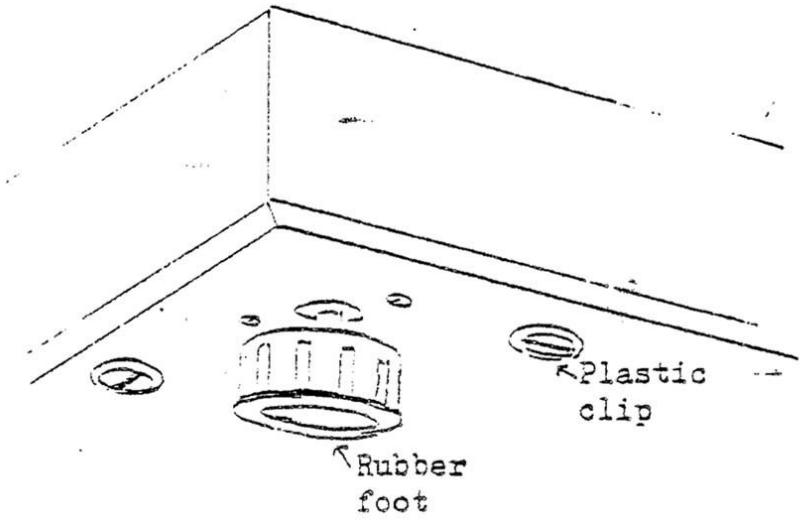
BEFORE CONNECTION TO POWER SUPPLY, CHECK THAT YOUR TURNTABLE IS SET UP CORRECTLY FOR THE MAINS VOLTAGE.

The unit is supplied for use on either 100/120v or 200/240 volts operation, and fitted with either a 50Hz or 60Hz stroboscope. A two core mains cable is fitted to the power box. It is recommended that this should be connected to the mains outlet of your amplifier, if this facility is available. If connected directly to the mains, a plug should be used which is fitted with a fuse of no more than 5 amps.

Plinth Suspension

The unit stands on four spring mounted and damped rubber feet, which can be adjusted for levelling simply by rotating the feet.

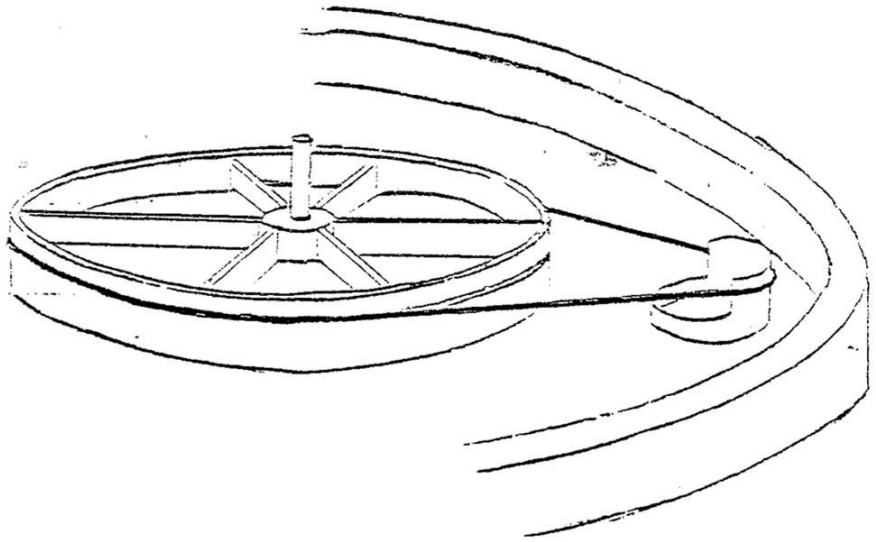
The plinth base is retained by eight plastic clips. To remove the base, these should be turned with a coin so that the slots are at right-angles to the edge of the plinth.



To fit the turntable casting first put a few drops of the oil provided into the centre bearing, so that the steel ball in the bottom is covered.

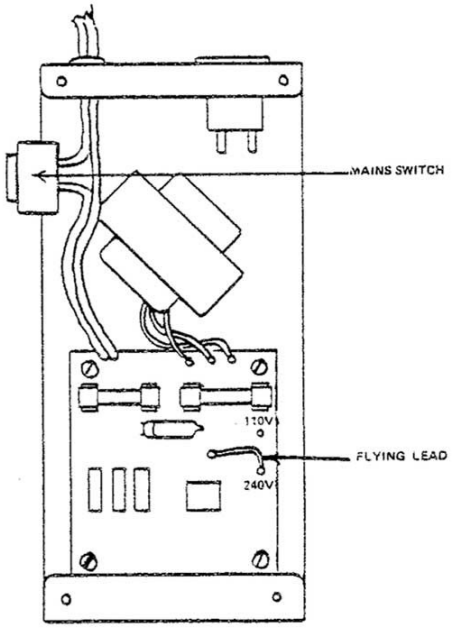
A moulded plastic tool is provided to help fit the drive belt.

Remove the aluminium plug from the turntable casting and insert the plastic tool, as shown, with the raised section towards the outside of the turntable, and fit the drive belt in the groove and around the tool.



Put the turntable into the centre bearing, so that the hole is directly above the motor pulley; rotate the plastic tool through 180° and withdraw, leaving the belt on the pulley; replace the aluminium plug and rubber mat.

It is recommended that the power supply unit should be connected to the switched mains outlet of your amplifier. Before connecting, check that the power unit is set up correctly (as shown by the voltage label) for the mains supply. If not, this can be adjusted by removing the cover and moving the flying lead on the small printed circuit board to the correct setting. The cover should not be removed from the power unit without first disconnecting the mains plug.



Failure to have the power unit set correctly could result in damage to the transformer, or incorrect operation of the turntable. If you are in any doubt, therefore, an expert should be consulted.

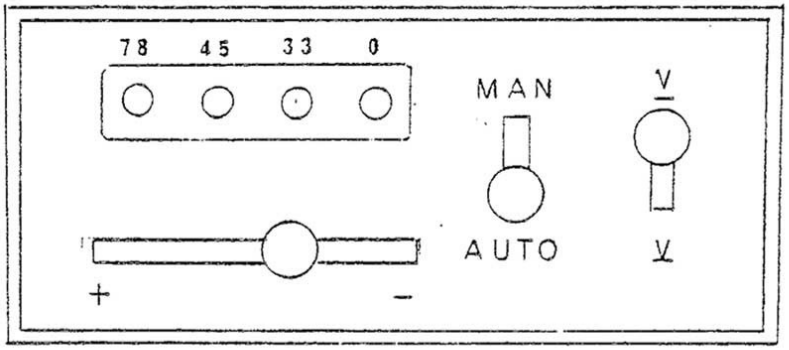
The four pin plug fitted on the cable from the turntable can now be connected into the power unit, and the power unit should be positioned as far away from the pick-up arm as possible, so as to eliminate any chance of hum fields affecting the cartridge.

Power to the turntable is turned on by measn of the mains switch on the power unit. Speed is selected by means of the push button at the front right corner of the turntable base. Fine adjustment is achieved by moving the slider knob on this panel. In order to chedk for correct speed the stroboscope under the turntable should be viewed through the mirror at the front left corner of the turntable base. There are 3 sets of strobe markings - 33⅓rpm at the outside, then 45rpm and finally 78rpm to the centre of the turntable. The fine speed control should be moved until the appropriate strobe markings appear to be stationary, If, for any reason, coarser adjustment is needed, this can be achieved as follows:

The base is removed from theplinth, revealing a printed circuit board beneath the control panel. On this board there are 3 pre-set potentiometers, one to control each speed, as marked on the circuit board. These can be adjusted by turning with a small screwdriver. This adjustment should not normally be necessary.

The following section applies only to units fitted with the Connoisseur tone arm.

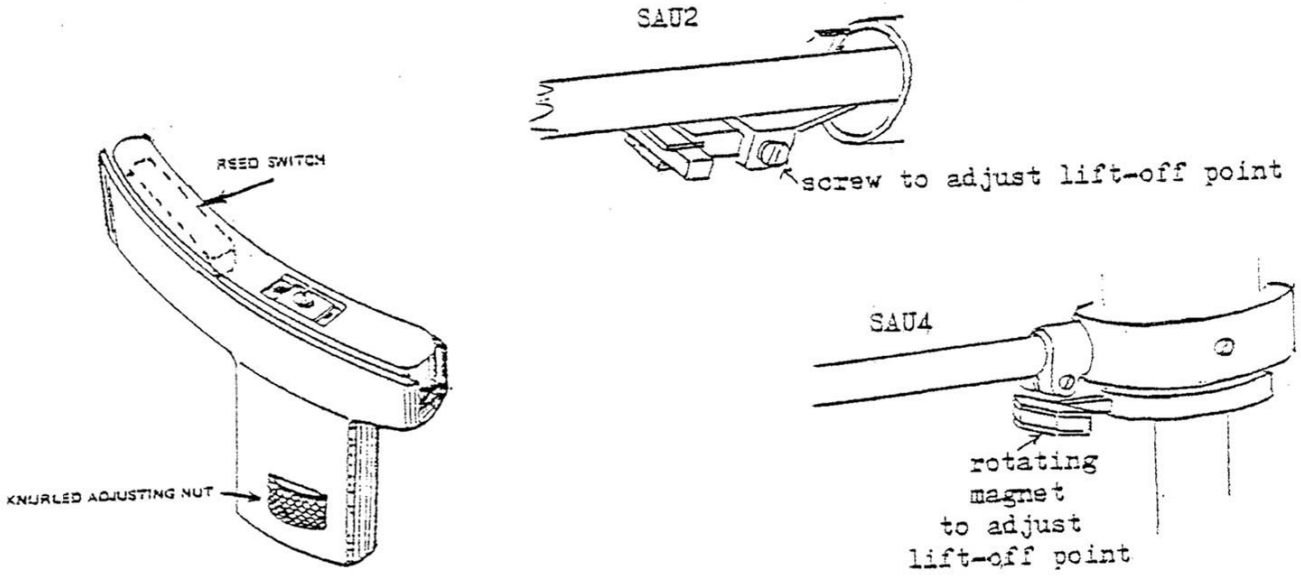
The lift/lower device is worked by means of a switch on the control panel, at the front right corner of the platform. As this is electrically operated it will only work when the power is switched on, and will always return to the lowered position when the power is turned off. The pick-up arm is automatically lifted from the record when the stylus reaches the end of the record. If, however, a non-standard record is being used, with a different cut-off point, the automatic lift can be made inoperative by turning the MAN-AUTO switch to MAN.



If it is necessary to adjust the lift-off point, the magnet under the arm is moved.

The magnet of the SAU2 arm is moved by rotating the screw clockwise to lift off later, or anti-clockwise for earlier lift-off.

The magnet of the SAU4 is adjusted by rotating the whole of the ring which carries the magnet. This is a friction fit on the underside of the pivot housing.



Further details of pick-up arm and cartridge installations are given on the separate leaflet.

MAINTENANCE

Provided adequate care is taken, the BD103 turntable will give many years of trouble-free service, with minimum amount of maintenance.

The only maintenance normally required is the occasional lubrication of the turntable centre bearing with the oil supplied. The turntable casting should be lifted off, after first removing the drive belt. The bearing should be cleaned using, for example, a piece of cotton wool on the end of a stick. A few drops of clean oil can then be put into the bearing before re-assembly.

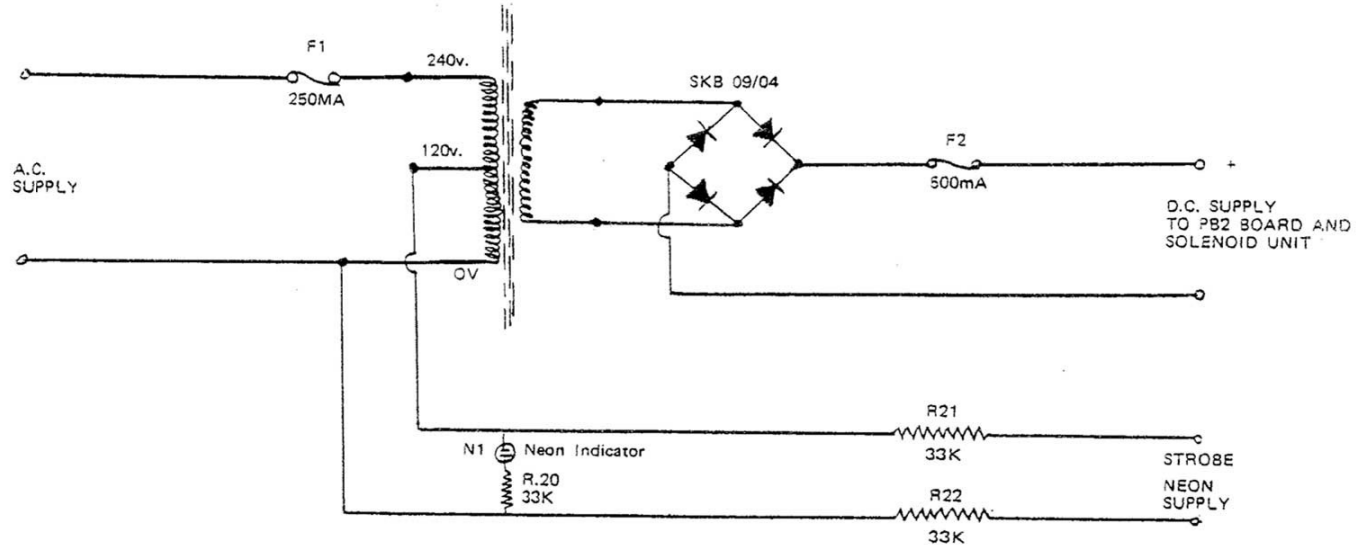
The belt is coared with a special protective silicon compound (white grease), a small phial of which is supplied. If starting becomes difficult, a thin and even layer should be applied, taking care not to stretch the belt. This will only be necessary after a prolonged period os use.

A small amount of oil should occasionally be applied to the pad of the top motor bearing.

The pick-up bearings are well protected by their outer casing, but the rear of the pick-up should be kept clear of dirt, particularly steel objects, which could be drawn in by the stabilising magnets, and affect the lateral motion of the pick-up.

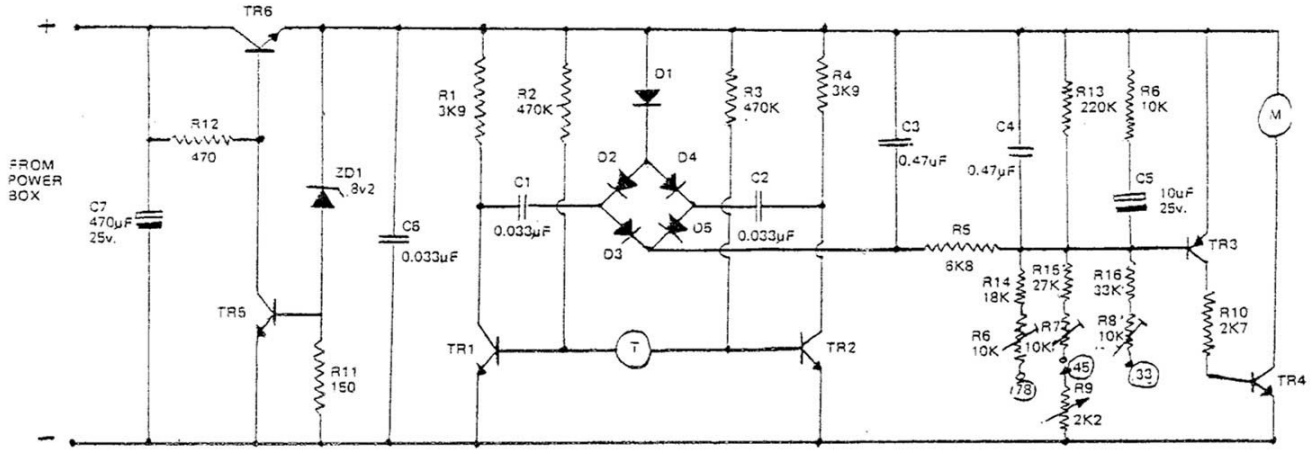
Any correspondence with regard to this unit should quote the model and serial number, and if possible the date of purchase.

BD103 POWER BOX CIRCUIT DIAGRAM



T1 is tapped for 110V operation by changeover link situated on PB1 Circuit Board

BD103 MOTOR SPEED CONTROL CIRCUIT – PB2



TR1–BC148B TR3–BC158B TR5–BC148B D1–5=IN4148
TR2–BC148B TR4–BC338 TR6–MPS UOI Motor–Phillips 9904–120–01809 (R9–Fine Speed Control)

LIFT DEVICE CIRCUIT