



Moth Record Cleaning Machine Operating instructions MKII

PLEASE READ THESE INSTRUCTIONS BEFORE
UNPACKING OR USING YOUR MACHINE

INITIAL CHECKING:

Save all packaging for future use.

Check for obvious external damage and internal rattles

Check drain tap operation: return tap to closed (Fully anti-clockwise) position

Check vacuum tube position: The tube should be pointing directly at the centre spindle of the platter..

Check switch mechanical operation. Return both switches to the off position (Left hand switch to the centre position, Right hand to the down position)

Check that mains voltage is correct (See carton and serial number label)

IT IS RECOMMENDED THAT AN EARTH LEAKAGE DETECTOR BE USED WITH THE MOTH RCM

FLUIDS:

Various proprietary record cleaning fluids are available. Virtually all are suitable for use with the Moth RCM.

An excellent fluid is available from Moth in 1litre and 5litre quantities. Note that alcohol based fluids should not be used for the Cleaning of 78rpm records which should be treated only with water.

ALCOHOL BASED FLUIDS WILL DAMAGE 78rpm RECORDS!

TESTING MACHINE:

Having connected the machine to the mains supply, remove the dust cover and check turntable operation. The left hand (Outer) switch controls the turntable, up position clockwise rotation, centre position off, down position anticlock rotation. Note, a gearbox is employed to increase torque and reduce speed. Gearbox noise will be noticed.

The vacuum motor is controlled by the right hand (Inner) switch. Note that a noise level similar to that of a domestic vacuum cleaner will be heard ! Check that an airflow exists across the face of the vacuum tube, and that the exhaust port, on the rear of the machine is clear and unobstructed.

Note: A 5cm+ gap should be left at the rear of the machine to allow for efficient air flow.

RECORD CLEANING:

Remove the small red puck, fit a record to the platter and replace clamp. Note, this first record should be dirty but dispensable – you are checking both your cleaning technique and the machine! Switch on the platter. Taking care not to wet the label, apply a small amount of fluid to the surface of the record. Using the brush supplied, working in the area above the vacuum tube, spread the fluid over the whole of the grooved area. Use only enough fluid to wet the surface, excessive fluid application is unnecessary and wasteful.

Correct amounts of fluid will depend upon the level of record contamination, and will be found by experience. Having wet the surface, hold the brush on the record, bristles towards the direction of rotation, for as long as is necessary to clean the disc. The amount of 'Scrubbing' required is again dependant upon the level of contamination.. Note, always clean 'With' rather than 'Across' the grooves. Use both Clockwise and Anticlockwise rotation of the platter during this 'Scrubbing' cycle.

Switch off the turntable, remove the clamp and turn the record over (Wet side down). Replace the clamp, re start the Turntable, and switch on the vacuum. Allow 2/3 rotations of the disc in a clockwise direction, followed by 2/3 rotations in an anticlock direction. Switch off vacuum, Switch off turntable, remove record..

Note: Once the cleaning technique has been mastered, fluid can be applied to side two whilst side one is being dried, the clock/anticlock movement of the platter being coordinated for both parts of the cleaning cycle. The use of a new inner sleeve is recommended.

General Tips:

Never use the Moth RCM without fluid.

Ensure that the brush and the surface of the vacuum tube are cleaned between each side. Use the brush to clean the tube surface with the vacuum switched on, and the vacuum to clean the brush.

The life of the velvet surface of the vacuum tube is not infinite. Wear will depend upon the amount of use and the level of record contamination. Check for wear at regular intervals. Replacement velvet strips are available.

Check reservoir fluid levels at regular intervals. Record cleaning fluids are usually quite volatile, drainage not being required unless many records are cleaned at one sitting.

The vacuum tube is designed to be 'Loose' to enable it to follow the movements of less than perfectly flat records.

Ensure that the slot between the two velvet pads is vertical at the start of each cleaning process.

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Moth Record Cleaning Machine Kit

Instructions for assembly and wiring

1 Prepare the eight 15mm panels to the assembly drawings, 1-7

2 Assemble the eight panels to drawing 9:

Fix front and rear panels to the two sides (No8 Woodscrews and adhesive)
Check for correct orientation (See drg 9)

Insert partitions and fix to front and back (No8 Woodscrews and adhesive)
Note, allow 15mm to top and bottom for insertion of top and bottom panels.
Ensure that distance between the partitions is such that the large diameter fan of the vacuum motor is a 'snug' fit between them.

Position and fix top, No8 woodscrews to outer edges, panel pins to partitions.
Check for correct orientation.

Position and fix quadrant moulding to four outer corners. Allow for the fitting of 15mm bottom panel.

3 Seal all internal joints and seams with a fillet of silicone sealant
Seal all exposed, cut surfaces with an application of silicone sealant.
(Take care re skin contact, see sealant instructions). Include the exposed surface inside all cut holes.

4 Fix drain plug and switch plates into position (N06x10mm screws)

5 Fix laminate to top surface. Cover the whole surface, covering all holes and joints. When adhesive has set, locate holes and cut through laminate from the top.
Note: the laminate is fitted as protection against excess fluid being allowed to flood the top surface of the enclosure, which can cause water damage to the particle board from which the unit has been constructed. Such protection can be achieved with 2/3 coats of varnish or a similar protective coating, obviating the use of laminate.

6 Pushfit air exhaust guard into four holes in rear panel

7 Fit and Fix Mains input socket (M3x24 c/sk screws nuts and washers) onto rear panel

8 Fix turntable motor to case (M4x40 bolts, nuts and washers)

9 Fit turntable (4" diameter red) to motor spindle. Push well home and fix via M3 grub screw in side hole.

10 Fix vacuum tube assembly to top plate. Ensure that the tube is pointing directly at the turntable motor spindle.

Note: Use the 22mm nut and washer to make a temporary fix. It will be found that the nut can be dispensed with once the reservoir tank is fitted

- 11 Check height of vacuum tube with respect to the height of the top surface of the turntable. Tube should be parallel with the top surface of the machine, with the felt pads being level with the top of the turntable.
Note; the vacuum tube can be moved within the 90degree bend to allow for intimate contact with the disc.
Fit 1x Self adhesive foot under the end of the vacuum tube nearset the turntable.
- 12 Fit reservoir.
Make the inner, short connection to the underside of the vacuum tube bend first. Ensure that a good seal is made, and that the vacuum tube is relatively firmly held in position.
Rotate the lower, double bend fitting to align with the tap appature. It may also be found neccessary to rotate the reservoir on its top pipe fixing point to obtain correct alignment. Note that the reservoir tank is suspended between the two sets of pipe, not located on the 'Floor' of the enclosure.
Connect the Drain Tap, ensuring a good seal to the pipework, and a reasonably secure fix for the tap.
- 13 Fit the vacuum motor into place between the two internal partitions.
Secure with the motor mounting plate (2xNo8x12 selftap screws)
Ensure alignment of fan centre hole with corresponding hole in partition.
- 14 Fix terminal block into position at a convenient point on the internal partition midway between the vacuum motor and the front panel.
- 15 Wire the various components as per the wiring diagram (Drg 8)
- 16 Fix base into position (5xNo8 Woodscrews) Ensure that the edges or the base have been treated with silicone sealant, see item 3.
- 17 Seal base with silicone sealant or with vinyl tape.
- 18 Fix 4x self adhesive feet to corners of base.
- 19 Fit hinges to lid (4xM4x12mm screws/washers/nuts)
- 20 Fit hinge sockets to rear of enclosure (4xNo6x20 c/sk screws)
- 21 Fit lid to machine.

Moth Record Cleaning Machine

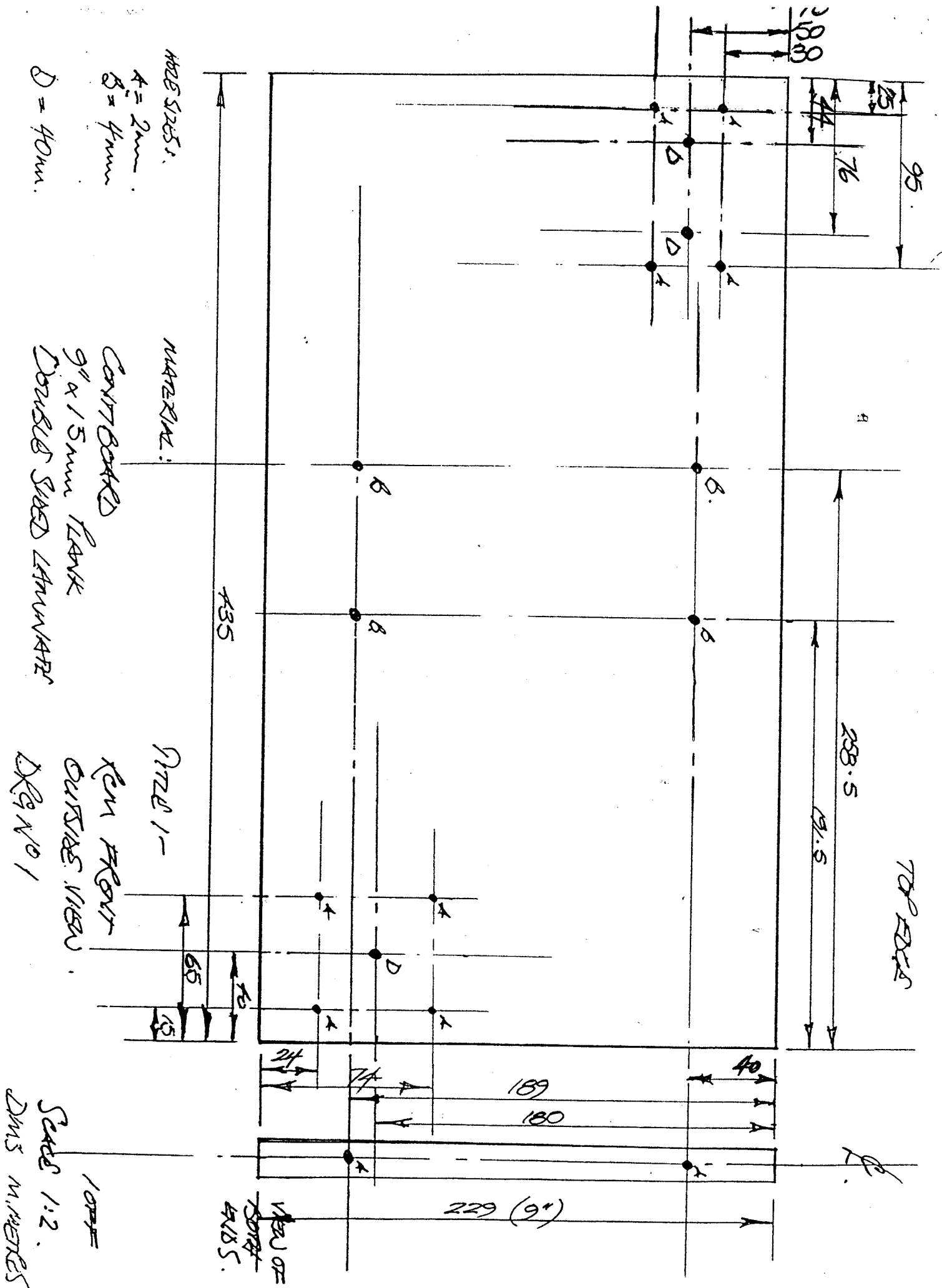
Contents of self build package

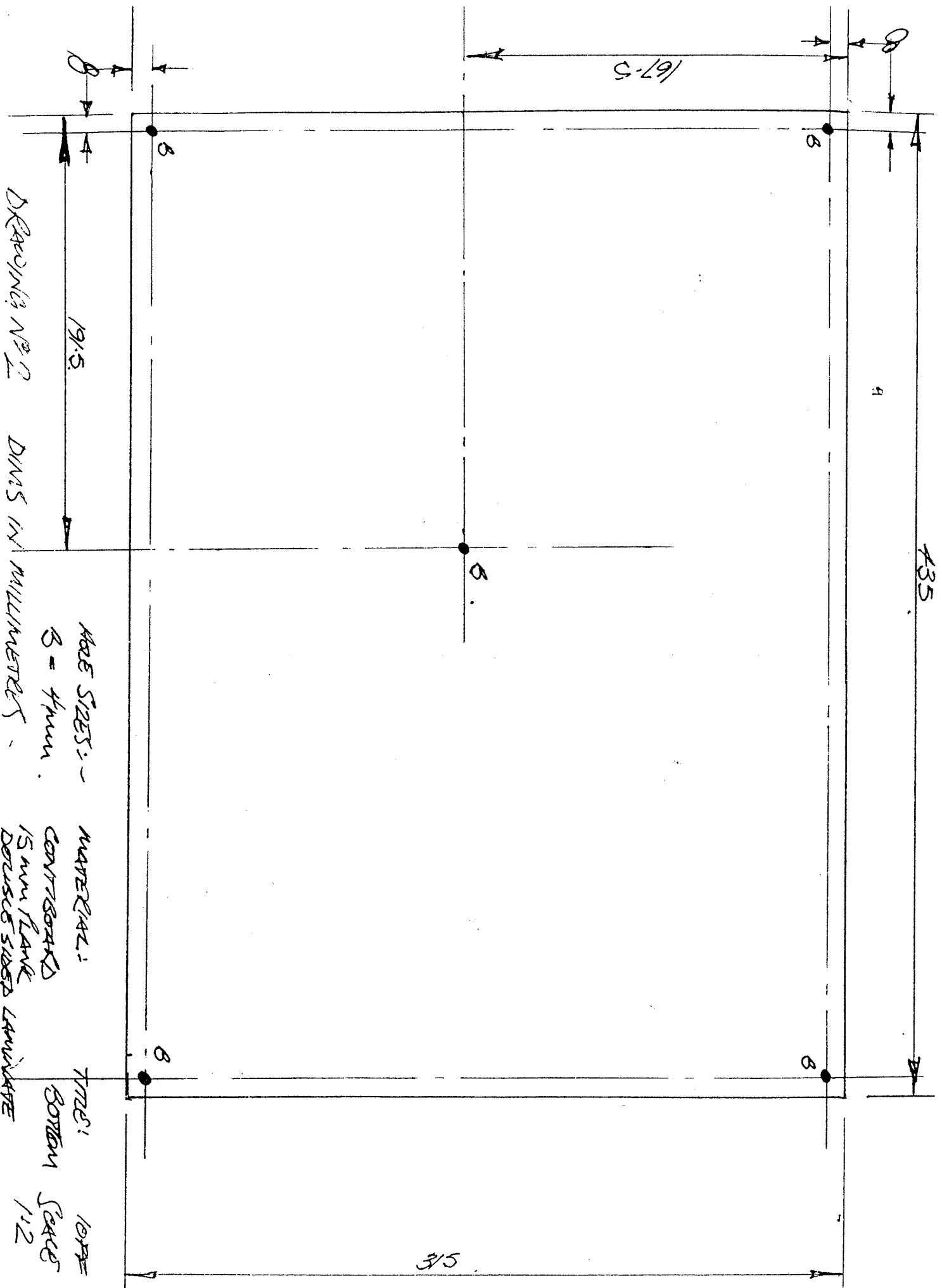
Quantity	Item	Quantity	Item
1	Turntable motor	1	Reservoir assembly
1	Turntable spindle	1	Vacuum tube
1	Turntable	1	90 degree bend
1	Turntable clamp	1	Drain tap
2	M4x40 panhead bolts	1	Tap panel
2	M4 Spring washers	1	Lid
8	M4 washers	1	Suppressor
7	M4 Nuts	1	Terminal block assembly
1	Fan guard	1	Vacuum Motor
5	Self adhesive feet	1	Vac motor fixing plate
1	Application brush	2	8x12 Self tap screws
1	Mains socket assembly	1	Dispensing bottle
2	M3x24 countersunk screws	1	Mains input cable
2	M3 nuts	2	On/off switches
2	M3 spring washers	1	Switch plate
5	6x20 countersunk screw	12	6x10 self tap screws
22	8x35mm woodscrews	22	No8 Brass cup washers
1	22mm nut /washer	2	Hinge sets
4	M4x12 panhead screws		

Additional items to be purchased for cabinet construction

15mm x 229 (9") construction board (Contiboard or similar)	1x1.6M length
15mm x 458 (18") construction board	1x0.9M length
21mm Quadrent moulding	1 x1.2M length
1mm Plastic laminate (Formina or similar) Optional	500x350mm
Construction board edging strip	As required
Wood glue	
Silicone Sealant	
Laminate contact adhesive Optional	

Note, plastic laminated construction board is preferred to 'Real Wood' finishes. Damp atmospheres are encountered within the machine.



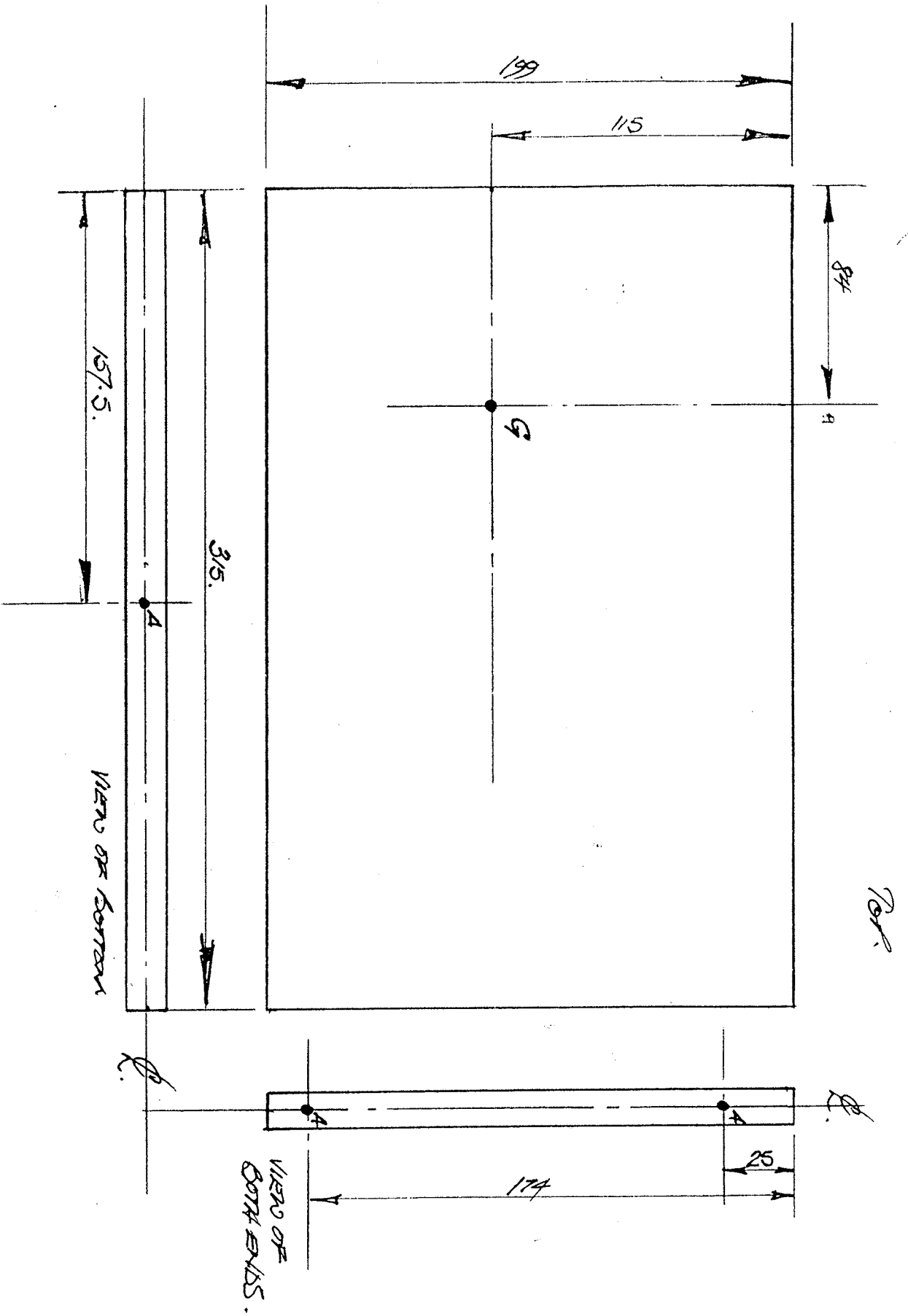


DRAWING NO 2

DIMS IN

MILLIMETRES

HOLE SIZE:-
 8 - 4mm
 MATERIAL:-
 CONTRBOARD
 15mm PLANK
 DOUBLE SIDED LAMINATE
 TITLE:-
 BOTTOM
 SCALE
 1:2

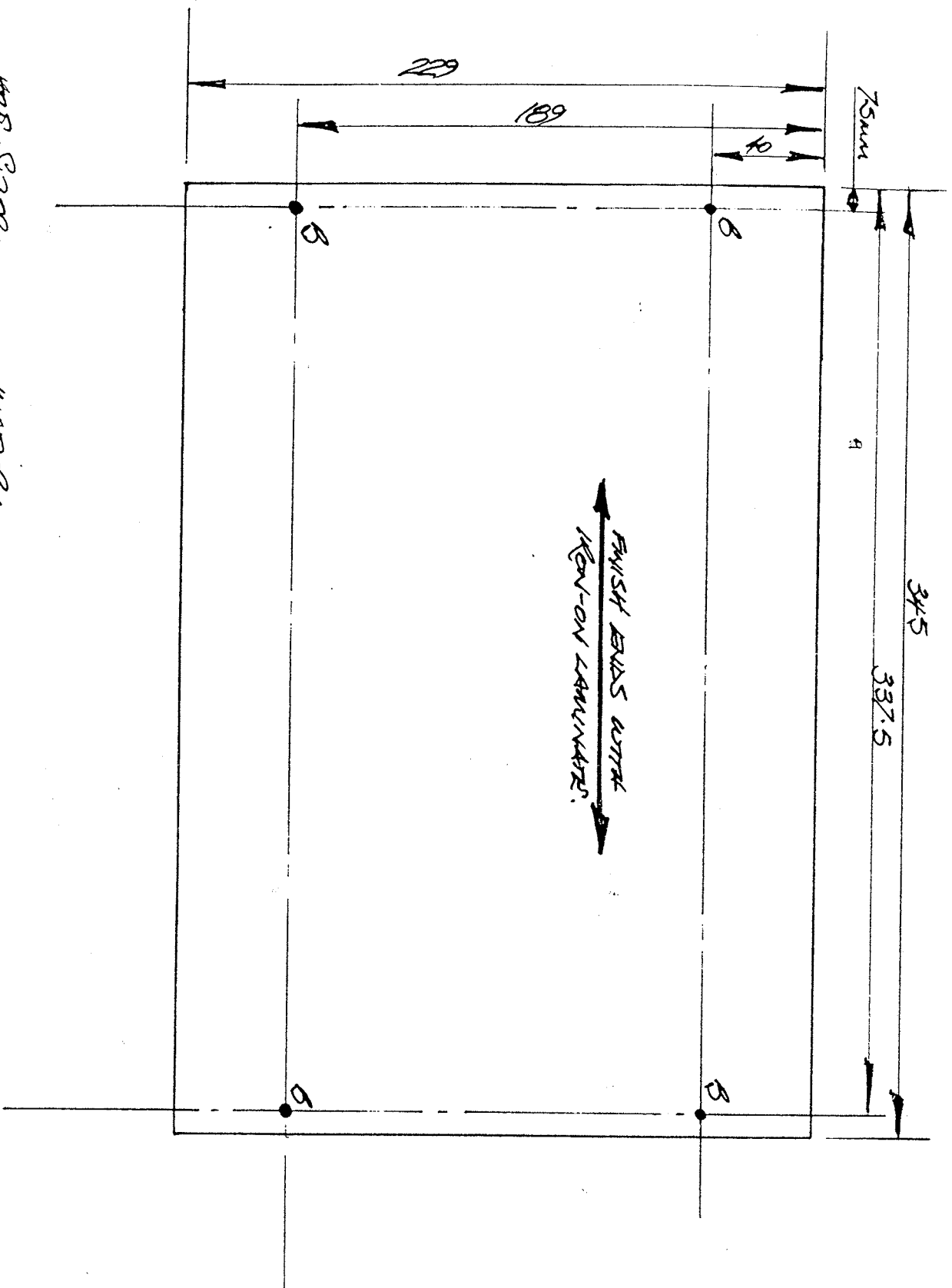


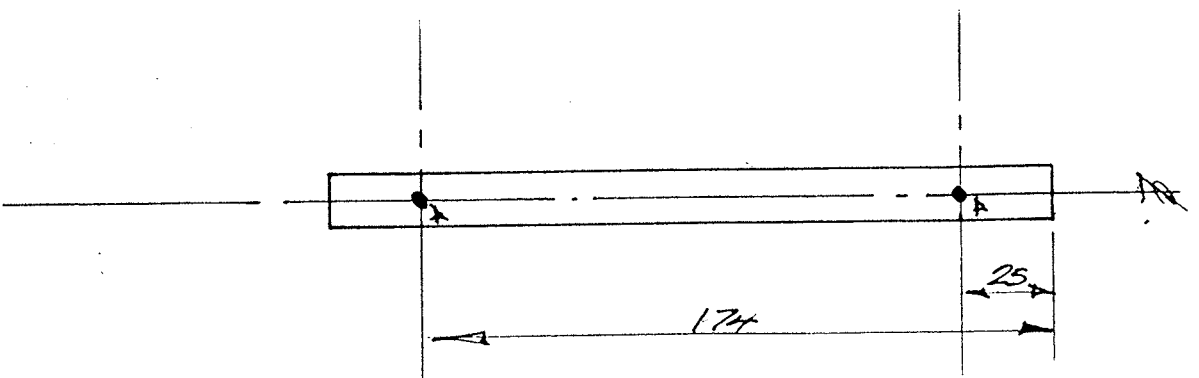
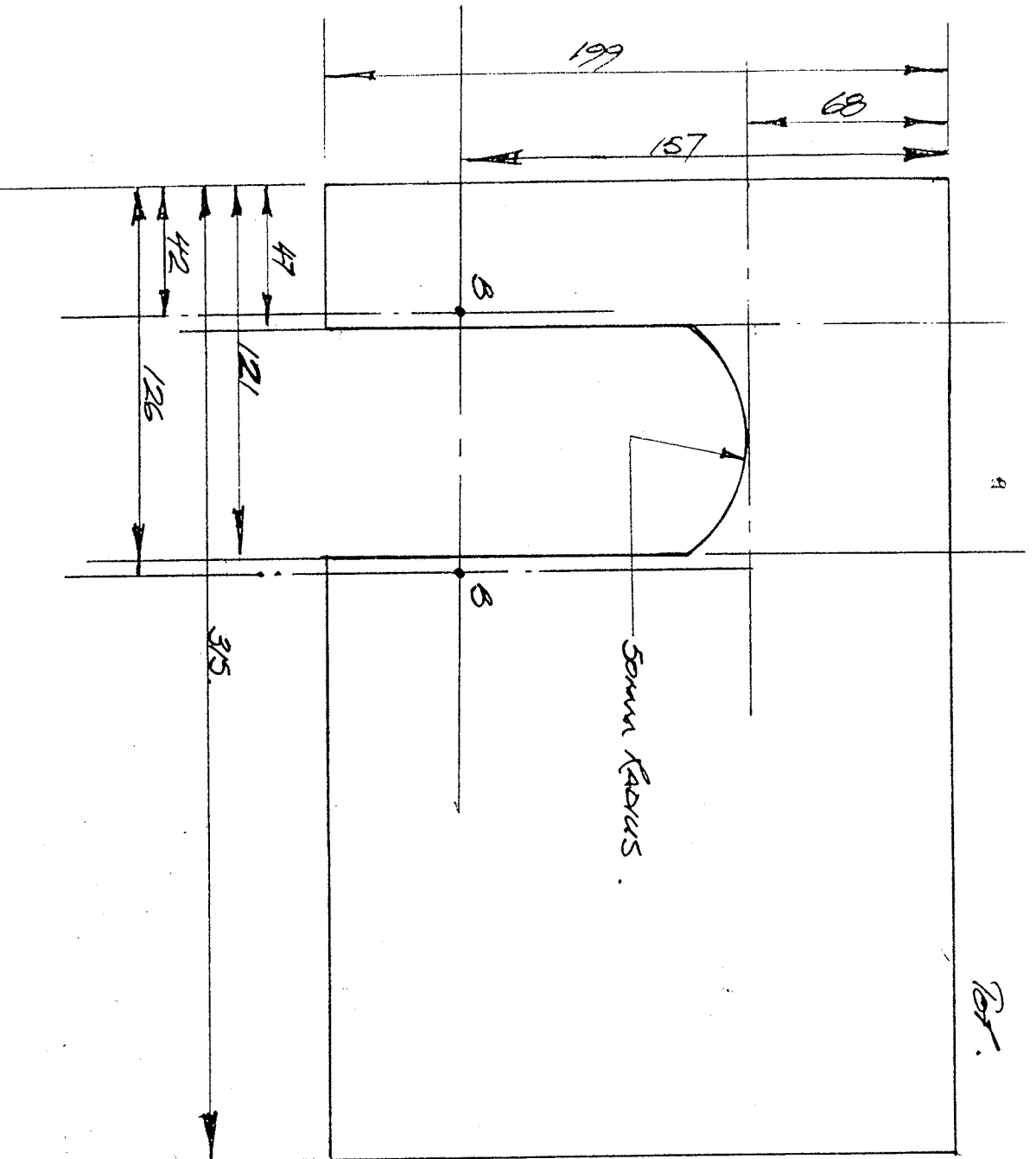
WHEEL SIZE:—
 4 = 2mm.
 5 = 50mm.

WHEEL:—
 CONTROLLED RUN RACE.
 DOUBLE SLOTTED AND WHEEL.

WHEEL:—
 RABBIT
 DKG No. 3

100%
 SCALE 1/2.
 DRUGS IN HANDS.





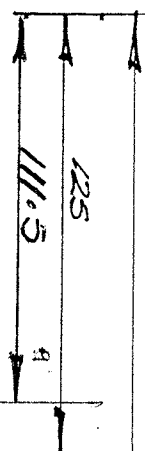
HOSE SIZES:
A = 2mm
B = 4mm

MATERIAL:
CORT 80X80
15mm BOLT
DOUBLE END LAMINATE

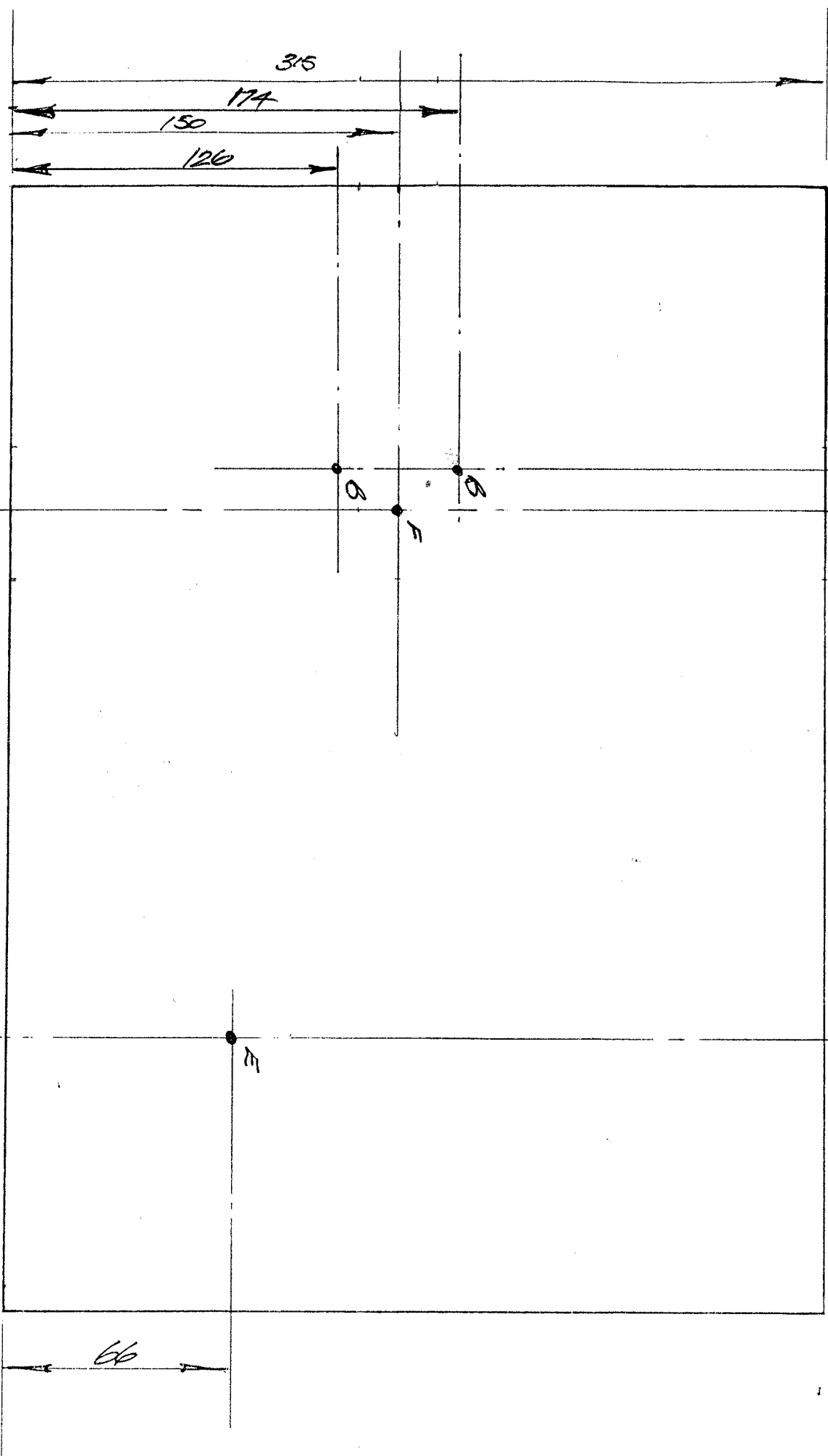
TIME:-
As per
DGS No 5.

Scale 1:2
Drawn in mm

435



BACK



NOTE SIZES:

B = 4mm

F = 20mm

F = 30mm

MATERIAL:

COUNTBOARD 15mm

BOARDS. DOUBLES

WOOD LAMINATE.

TYPE:

TOP

SCALE 1:2

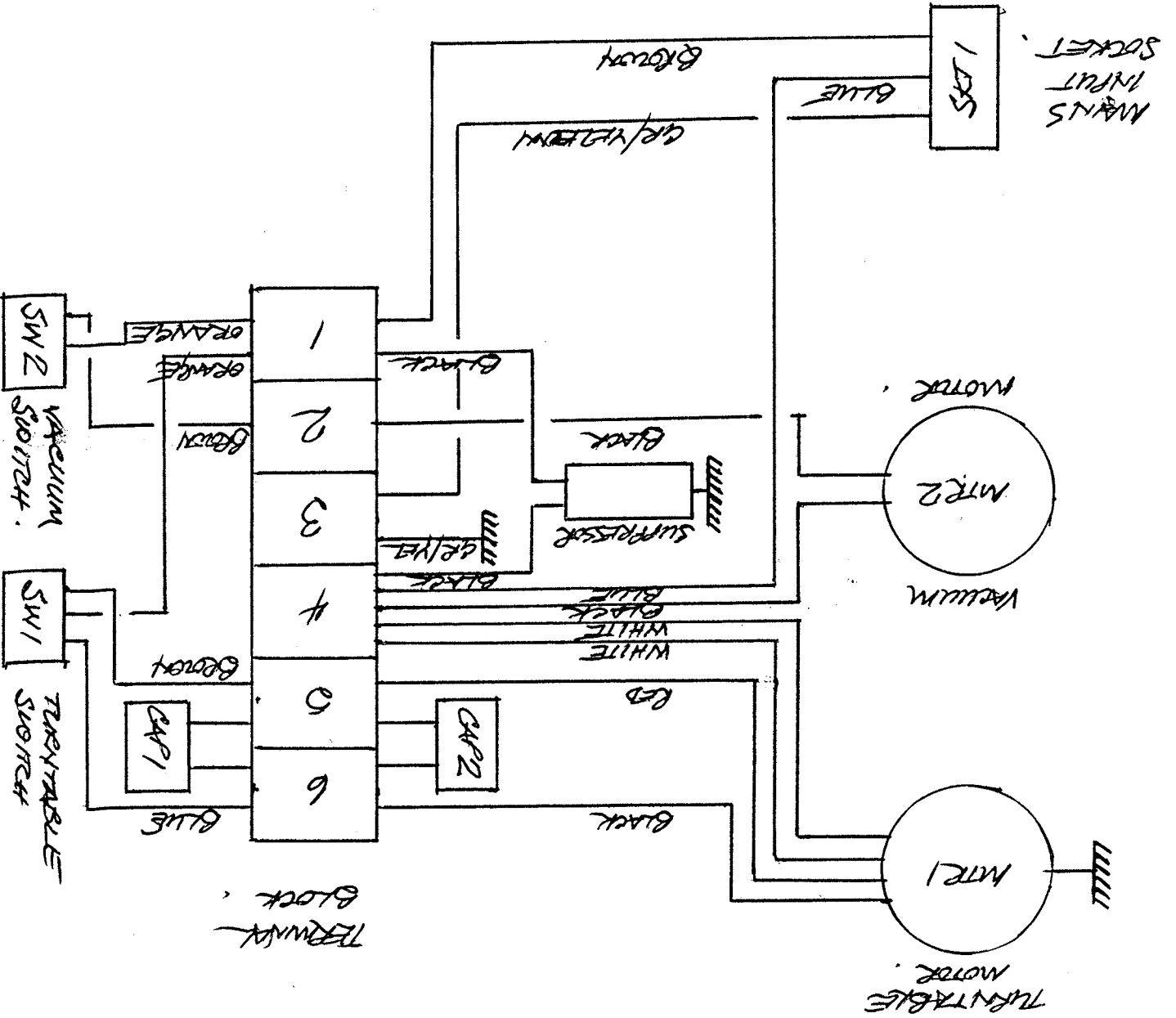
106

10mm

DRAWN BY mm 5

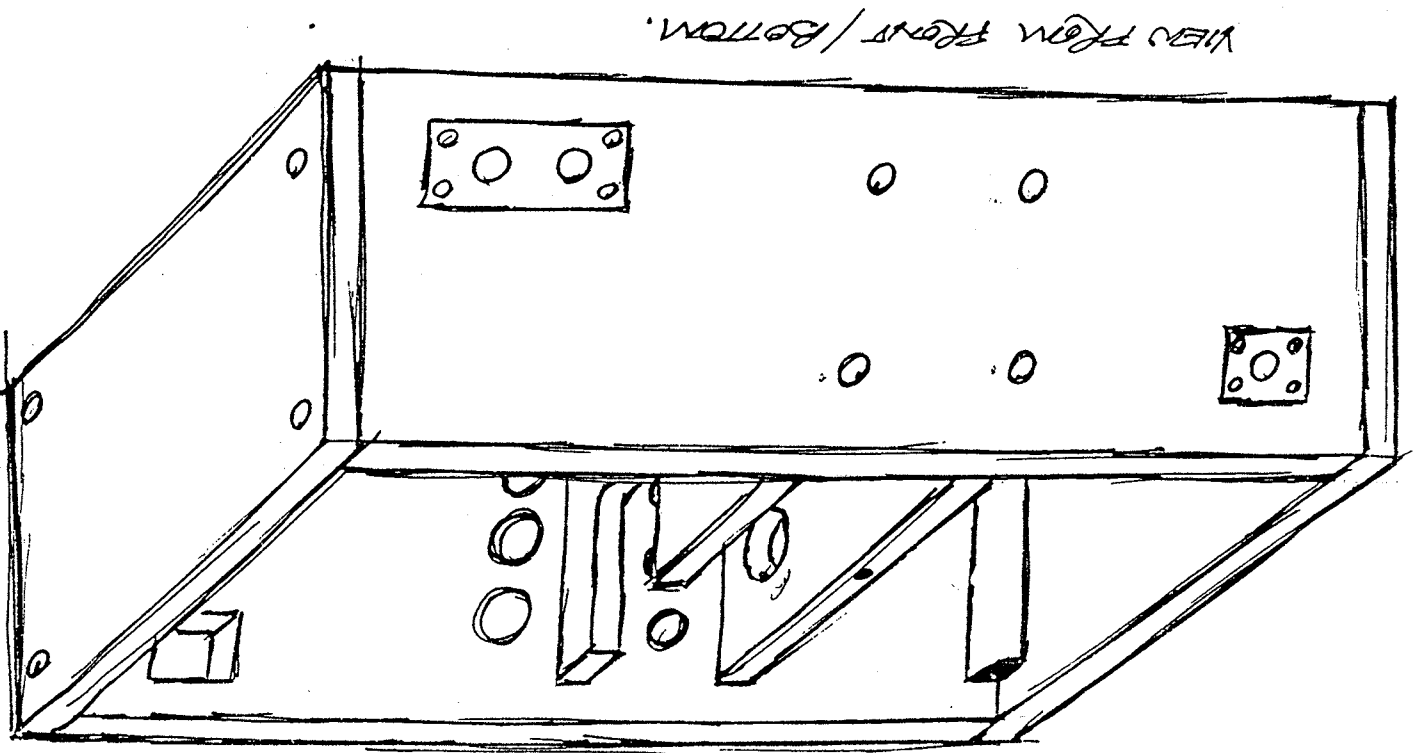
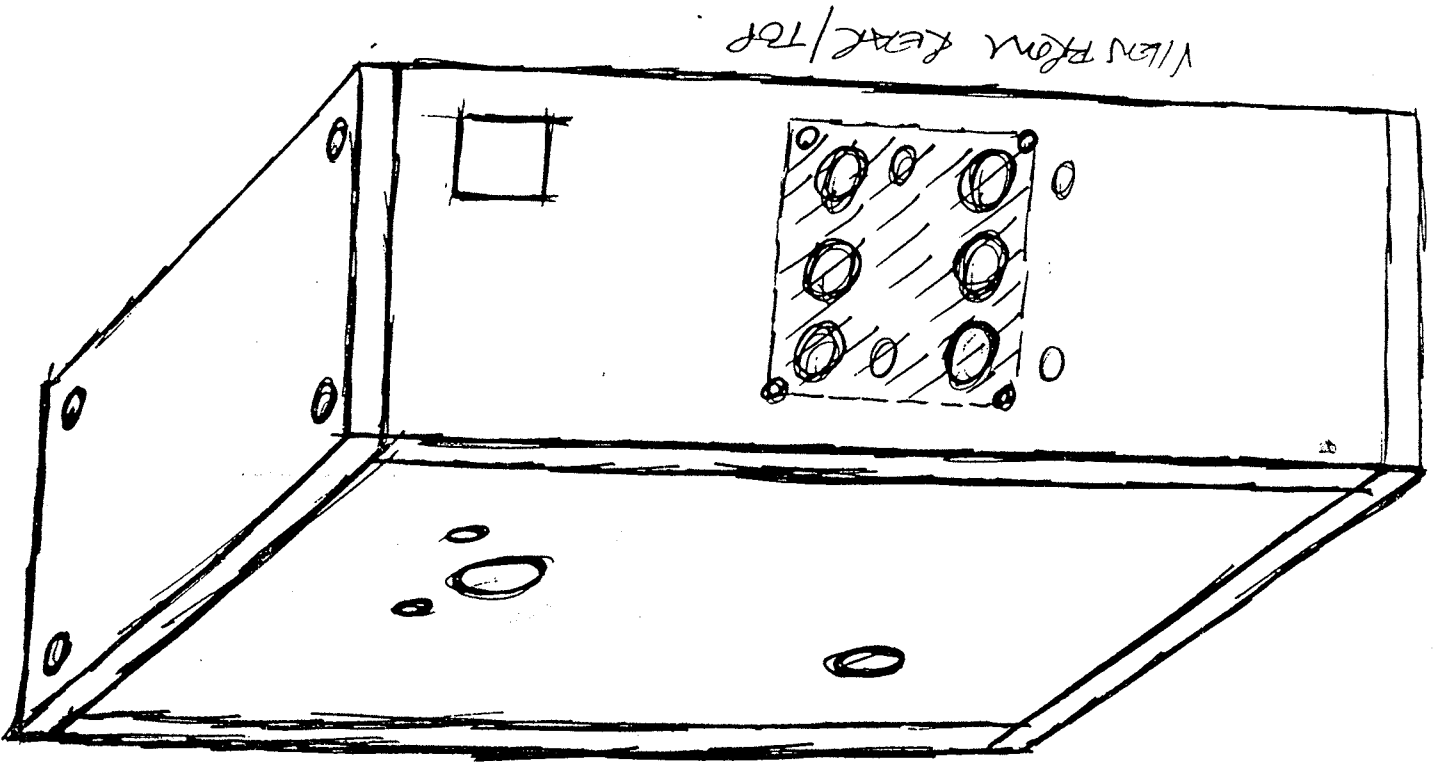
DATE 1/1/17

Wiring Diagram Drawing No 8



Notes:

- 1 Orientation of the wires of the Vacuum Motor, the Capacitors and the suppressor is not critical.
- 2 A Central Earth point is established at the fixing screw of the turntable motor nearest the centre line of the machine. Fix the case of the suppressor and the earth termination from station 3 of the terminal block to this point with the M4 nut and shakeproof washer provided.



DRAWING NO. 9
 NORTH ROOM
 CABINET ASSEMBLY