

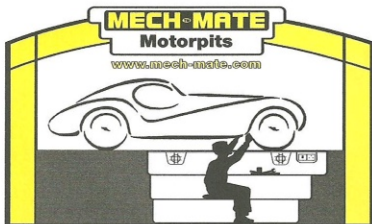
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GENERAL INSTALLATION INSTRUCTIONS (INC. SP201 DETAIL)

PLEASE READ ALL INSTRUCTIONS FULLY BEFORE COMMENCING

INTO EXISTING CONCRETE FLOOR

PREPARATION

1. Check there are no pipes, cables or drains run under garage/workshop floor where the motor pit will be installed.
2. Clear or cover loaded shelves etc., within garage/workshop or polythene sheet screen area around motor pit site (particularly during floor cutting and breaking out operations). Protect top flange edges of moulding with masking/insulation tape.

2a. CARRY OUT 1ST STAGE OF MOTORPIT ELECTRICS - WIRING TO EXTERIOR. MARKING OUT

3. Mark out motor pit hole to be cut. (fig 1) For normal use it is recommended that the motor pit steps are at the back wall end of the garage enabling easy access under any length of vehicle either placed forwards or backwards into the garage, with the garage doors closed.

DISC CUTTING

4. By using a concrete diamond disc cutter it is possible to create a sharp, clean edge to the hole to be broken out. A cut depth of 25-35mm (1-1½") is normally sufficient. Wear mask or goggles for this operation. Some cutters have dust vacuum nozzle ducts - ask your hire shop for advice.

BREAK OUT

5. Use Concrete breaker (Kango or similar) to break out concrete floor within marked and cut area. Should steel mesh reinforcements be within floor slab the diamond cutter may be used to cut.

INTO NEW CONCRETE FLOOR

Variations to these instructions are necessary when building the motor pit into a new floor.

1. Dig out hole at time of foundations or levelling operation.
2. Set levels and depths accurately.

3. The motor pit moulding may either be concreted in up to the DPC level before the floor slab is laid.

OR

The motor pit moulding can be concreted in after the floor slab is laid - having concreted up to a timber box frame of the concrete aperture size. (see fig.1)

DIGGING OUT

Make up digging templates (fig.2) using light timber batten min. 5mm x 130mm (1½" x ½") approx., - this will ensure the hole is the correct size and avoid unnecessary digging and excessive concrete backfill. Ensure the areas under concrete cut edges are cleared of hardcore to allow new backfill concrete to provide support ledges for floor edges. (fig.3 & 4) Fold back damp proof course (DPC). Lower the Mech-Mate Motor Pit into hole and check for clearance of approx., 75mm (3") all round.

CONCRETE BASE

Modify template/pattern (A) (fig.5) by attaching additional lower top rail to reduce measuring depth. Mix wet mix concrete and spread over floor of hole to depth of approx., 100mm (4") using modified template (A).

FIT MOTOR PIT MOULDING (fig. 6 & 7)

Lower motor pit moulding onto wet concrete and use 12mm (½") timber battens or equivalent to support the moulding at each corner (the moulding is thus standing proud of the floor by 12mm (½"). This will avoid any tendency for water to run into the pit from the garage floor. Weights may be needed to hold the motor pit moulding down during this first stage of concrete fixing. You may carefully climb into the pit at this stage to assist levelling and positioning. It is important that the concrete is settling above the base of the motor pit moulding by approx., 50mm (2"). If there is too much concrete in the hole the moulding will float and will be difficult to hold down. Remove motor pit moulding to add or remove wet concrete as necessary to ensure correct floor support and anchorage. Boards and weights may assist to hold moulding in place during this important positioning stage. Let concrete set overnight/do not disturb for at least 12 hours.

TOOLS/EQUIPMENT NEEDED

Pick
Shovel
Wheelbarrow
Mixer
Trowel
Torch
Hammer
Screwdriver
Broom
3 cu.m. Skip or site for spoil
Planks
Weights

MATERIALS

1 cu.m (1 cu.yd) Ballast
Bags Cement
Damp Proof Course - Membrane
Battening

DAY 2

BACKFILL (fig.8)

This is carried out using two concrete mixes:-

1. A wet mix for the base and under the steps and ledges.
2. A firm mix for the flat panel sides and end areas. This reduces the pressure on these flat areas.

NOTE

A small amount of pressure deformation is ideal - up to 2mm per side thus ensuring a tight fit of moulding with concrete backfill — (BRACE INTERNAL WITH BATTENS)

Throughout the backfilling operation (which is continuous up to the DPC) ensure that the side pressures are balanced by raising the concrete level around the motor pit moulding evenly on all sides. Do not backfill one side more than 50mm-75mm (2-3") above the other side at any time.

WET MIX

Should be just wet enough so the concrete slightly runs or flows, but is still able to be handled with a shovel.

FIRM MIX

Should hold its form or shape when heaped and not run or flow. Unfortunately a recipe/mix formula is impossible to state as the amount of water required will depend on how much moisture is within the sand of the ballast.

BACKFILL

Backfill to DPC level and reposition existing membrane. Add a second membrane throughout to ensure damp is contained below this level in case the original membrane has been punctured. (fig.10)

Complete any electrical work on the outside of the moulding.

Complete backfill to motor pit top flange ensuring flange is fully supported by concrete and creating slight slope up to the flange from the cut edge of the floor, trowelling to a smooth finish. (fig.11)

IMPORTANT

ALLOW THREE DAYS BEFORE DRIVING OVER THE MOTOR PIT

TAPES

Anti-slip and safety marking tapes are provided in the kit - apply them when all other installation work is complete and the moulding is thoroughly cleaned.

BOARDED COVER

Use up to 300mm (12") wide planks of hard wood/min. thickness 50mm (2") for normal vehicles up to 2 tonnes.

GOOD QUALITY SOFTWOOD

*

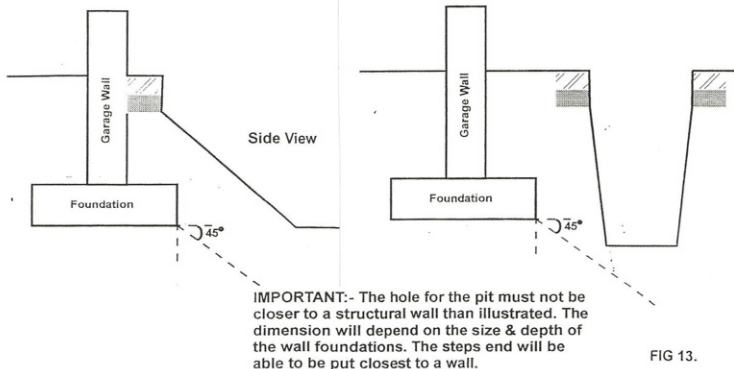
* 60mm/2 1/4" FOR SP251/DP250

POSSIBLE PROBLEMS

1. High Water Table

This can be overcome by digging out as the instruction manual, and then allowing the water around the motor pit hole to drain into the hole for regular removal by bucket or pump until flow slows sufficiently to allow quick drying concrete to be used for bedding and backfill. Water may need to be pumped out during stages. Anchorage rods must also be used.

2. To avoid debris or concrete spillage into the motor pit during the installation, tape or cover whenever appropriate.



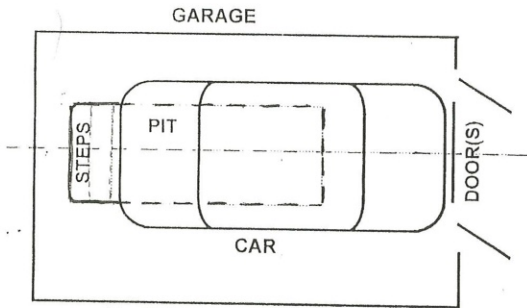


FIG 1. Ideally locate the Pit allowing full length of vehicle inside garage with garage doors shut and sufficient safe access in and out of pit via steps.

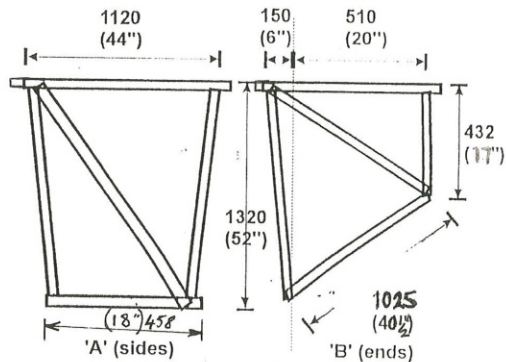


Fig 2. Templates
(FOR SP201 MOTORPIT ONLY)
FOR ALL OTHER MODELS SEE INDIVIDUAL SHEETS

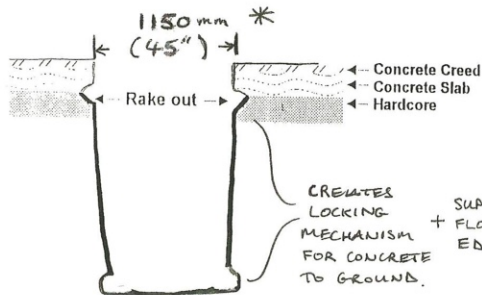


FIG 3. End section of hole

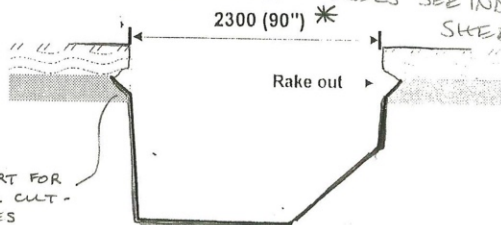


FIG 4. Side section of hole

SP201
ONLY.*

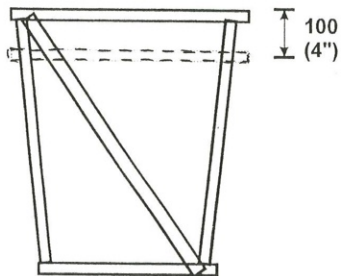


FIG 5. Template 'A' modified for base concrete level (NOTE AND ADJUST FOR SLOPE OF MOTORPIT FLOOR (MODELS SA 201 / SA 301 / SA 372))

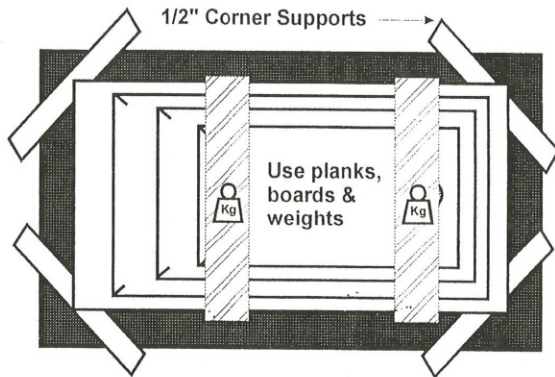


FIG 6. Positioning moulding

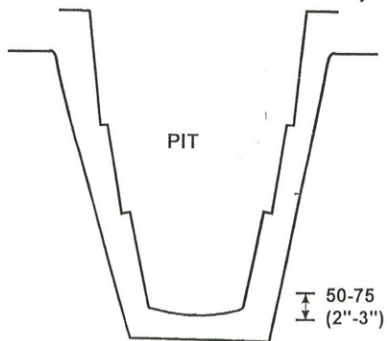
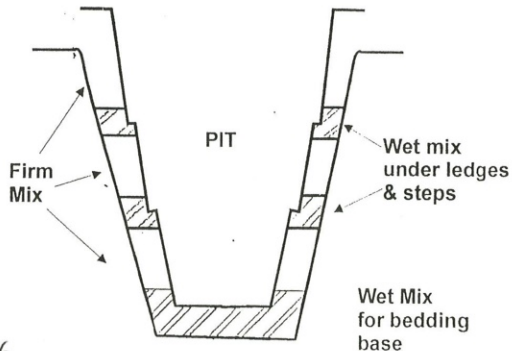


FIG 7. Set moulding in concrete



6.

FIG 8.

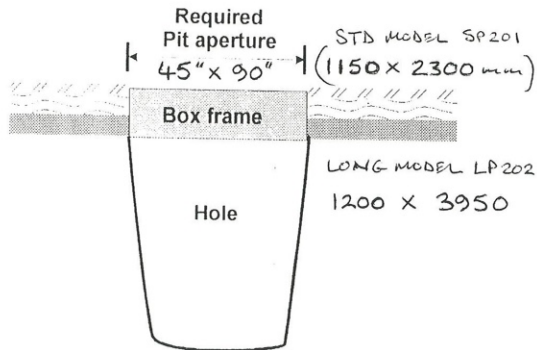


FIG 9. Pit installation in new floor

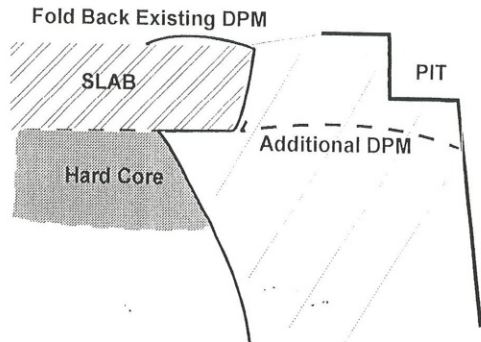


FIG10. Add additional DPM over existing

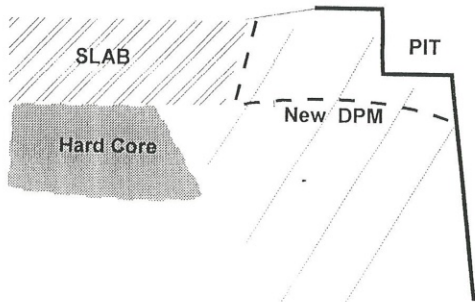
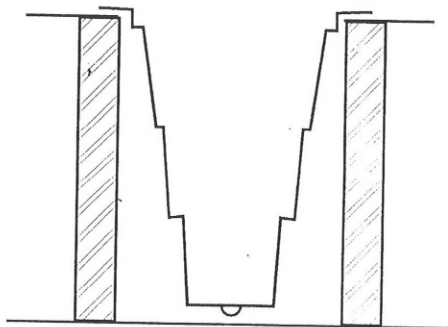


FIG 11. Introducing new DPM

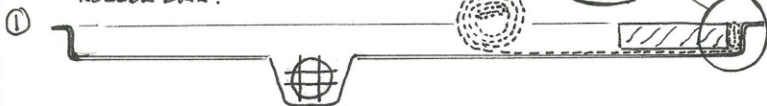


7. FIG 12. Lining traditional Pit

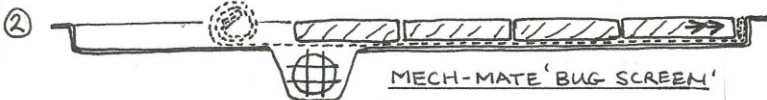
RESPONDING TO CUSTOMER COMMENT, WE HAVE INTRODUCED A 'BUG SCREEN' TO LIE BENEATH BOARDED MOTOR PIT COVERING. THE PURPOSE IS TO STOP INSECTS AND DEBRIS FROM FALLING INTO MOTOR PIT - THE SMOOTH 'EASY CLEAN' SIDES PROVING DIFFICULT OR IMPOSSIBLE FOR MOST INSECTS TO CLIMB BACK UP. THE SCREEN STILL ALLOWS MOTOR-PIT TO 'BREATHE' THROUGH. ANOTHER ECOLOGICAL MECH-MATE FEATURE.

OPERATION

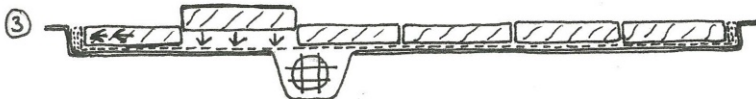
PLACE 'BUG SCREEN' ROLL AT END OF MOTOR PIT AND HOLD DOWN WITH FIRST BOARD TIGHT AGAINST UPSTANDING ROLLED END.



ROLL OUT 'BUG SCREEN' - LAYING ON BOARDS AS YOU GO.



PUSH LAST BOARD AGAINST ROLLED END + FIT REMAINING BOARD



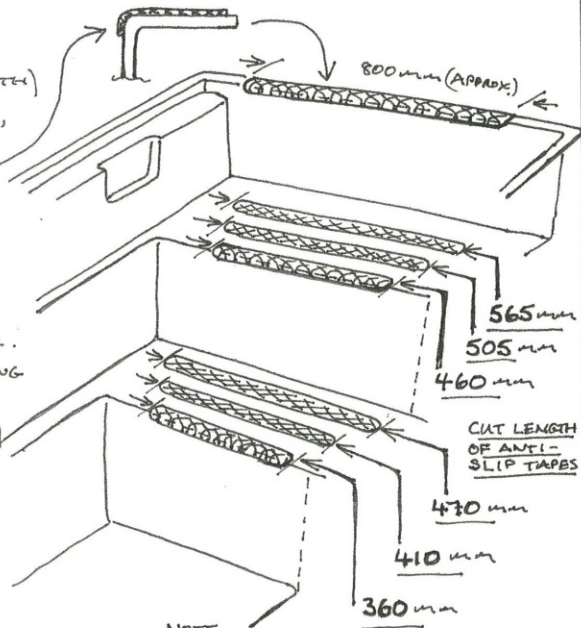
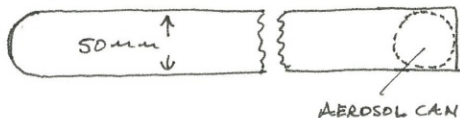
CLEAN 'BUG SCREEN' WITH GARDEN HOSE.

8.

MECH-MATE Motorpit APPLICATION OF ANTI-SLIP TAPE

ANTI-SLIP TAPE IS PROVIDED (3.6m LENGTH) TO REDUCE RISK OF SLIPPING ON STEPS, AND AVOID EXCESSIVE WEAR ON GRP SURFACES PARTICULARLY THE 'NOSE OF STEPS'.

THE TAPE IS EASILY CUT WITH SHARP SCISSORS OR STANLEY KNIFE. A RADIUS END (MARKED WITH BOTTOM OF AEROSOL ETC) AVOIDS PEEL BACK FROM SQUARE CORNER. CUT THE SHORTER LENGTHS FIRST - LEAVING THE LONGER TOP STEP TAPE TO BE THE REMAINDER OF TAPE (LENGTH NOT CRITICAL)

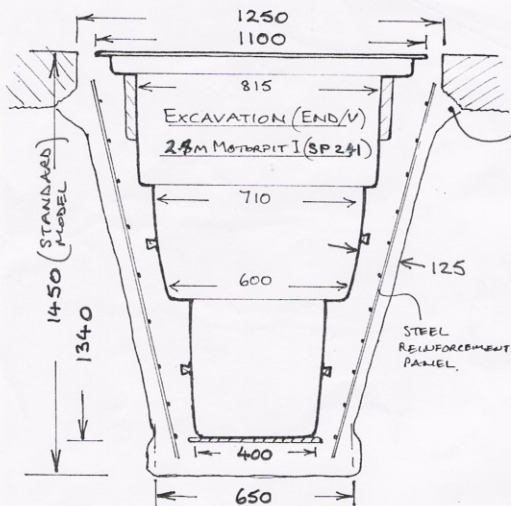
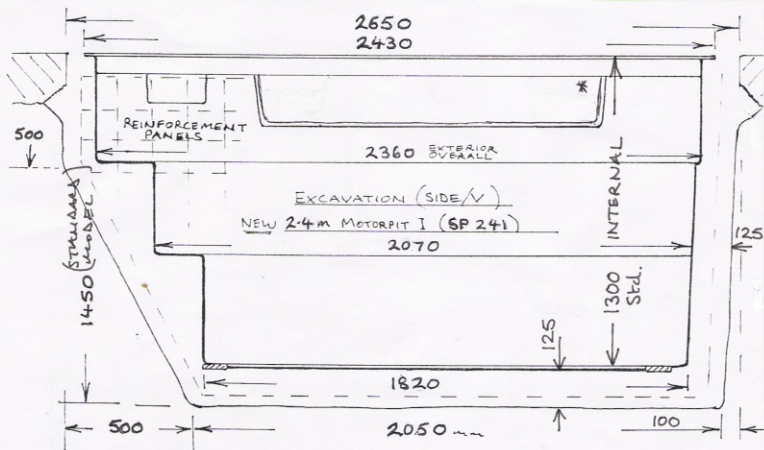


CUT LENGTH
OF ANTI-
SLIP TAPES

PEEL-OFF PAPER BACKER AND APPLY WITH CARE, AS ADHESIVE IS AN AGGRESSIVE BONDER.

NOTE.
COVER STEPS AND FLOOR PRIOR TO INSTALLATION - APPLY TAPES AFTER INSTALLATION.

EXCAVATION DETAILS MOTORPIT SP241



CREATE FLOOR SUPPORT LEDGES-ALL ROUNDS.

* LARGE LIGHT RECESSES WILL ACCEPT LARGER BULKHEAD LIGHT UNITS

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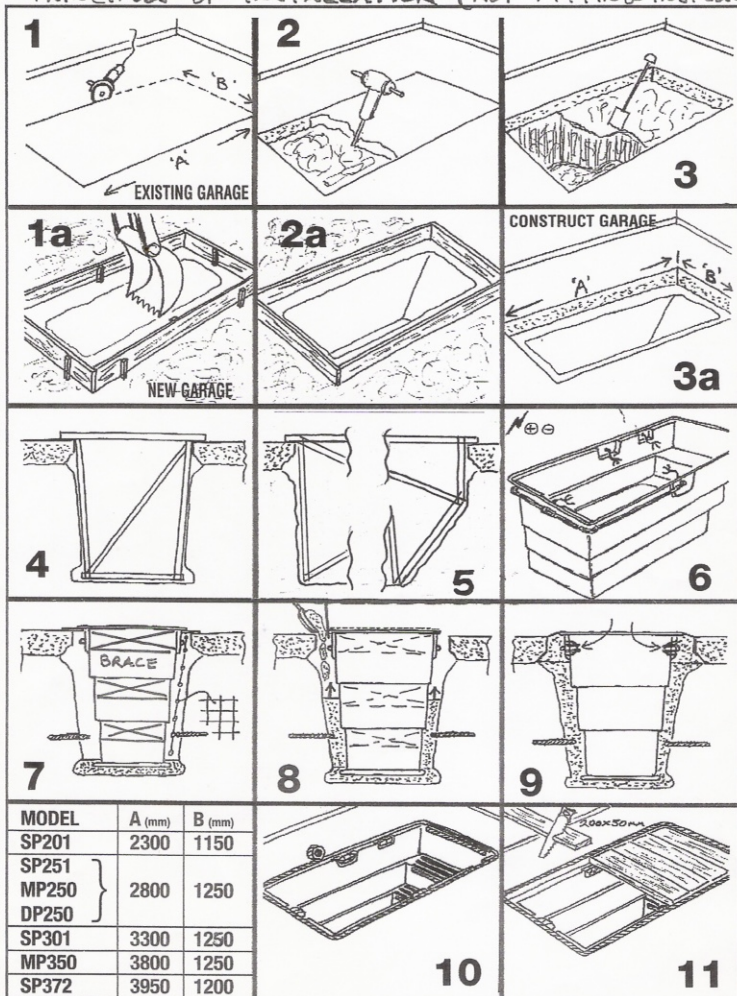
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MECH-MATE MOTORPITS

PRINCIPLES OF INSTALLATION (NOT FITTING INSTRUCTION)



MODEL	A (mm)	B (mm)
SP201	2300	1150
SP251	2800	1250
MP250		
DP250		
SP301	3300	1250
MP350	3800	1250
SP372	3950	1200
SP352	3750	1250
SP241	2650	1250
DP240	2700	1250