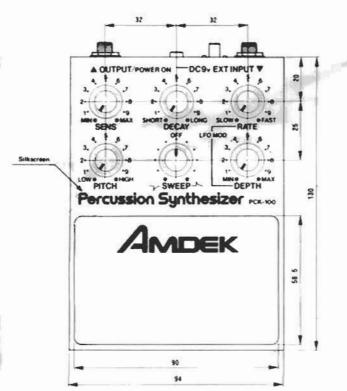
Percussion Synthesizer Kit

PCK-100

AMDEK ASSEMBLY MANUAL



• Your kit is one of a range of AMDEK products.

Like all AMDEK Instruments it incorporates carefully selected components which have been subjected to rigorous factory testing and inspection. This ensures a high quality level to back up this original conecpt.

Before starting assembly of your kit, however, be sure to read the instructions in correct sequence.

This will ensure that you will get the maximum benefit from your PCK-100.

AMDEK Corporation

Assembly Tools

• Soldering Iron: Use a 15-30W fine tip iron. Have ready a wet pad or

colth for cleaning the tip.

• Cutter and: strippers

For cutting wire and stripping vinyl insulation. Use side cutters with a hole in the cutting edge (for stripping).

If possible a wire stripper, specifically for this purpose

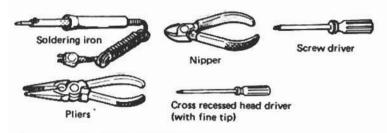
should be purchased.

e Pilers: Round nose with sidecutter. Screw Drivers:

1 Cross resessed head (with fine tip)

1 Cross resessed head (suitable for M3 screws)

You will also need a 006P 9V Battery (This is not supplied with the kit, to avoid corrosion problems).



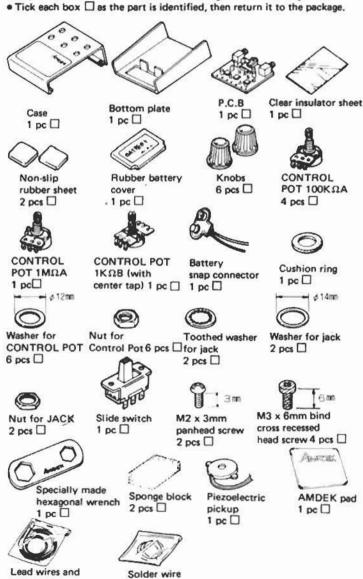
Assembly Notes

- The printed circuit board (P.C.B.) contained here has been carefully factory checked for full function. So, if all the steps outlined are followed, the assembled unit should work as intended.
- The most important work is soldering—90% of assembly failures come from this source. Use the solder supplied in the kit. Do not use soldering paste in any part of the assembly. Never touch a heated soldering iron tip to a joint for an extended time since it could result in damage to the components. Solder as quickly and precisely as possible.



Parts List

Unpack and check the contents of the kit against the Drawings.



1 roll

Scale

solder set

1 set 🗌



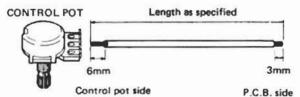
Check in ☐ each step before proceeding to the next.

1. Turn on power supply to the soldering iron.

 \square 2. Solder the lead wires to control pots 4 x 100KΩA, 1 x 100ΩA and, 1KΩB (with center tap).

Cut the lead wires to the lengths specified.

Strip the wire insulation with side cutters 6mm from one end and 3mm from the other; take care not to damage the core strands.



* How to strip the vinyl insulation:

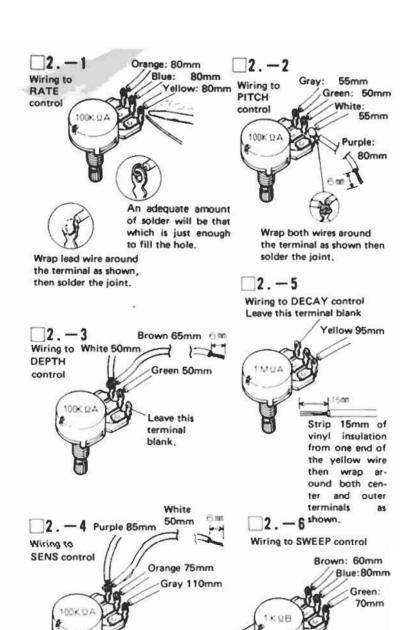
Place the vinyl wire in the hole of the cutters or stripper, to grip the desired length to be removed. Pull the tool sideways. Take care not to damage the core strands.



* How to Tin the wire:

Twist the core strands slightly, flow solder over the wire to make the surface wet with solder, so that a thin coating forms over all the strands. This "tinning" process will help to make subsequent solder works easier.





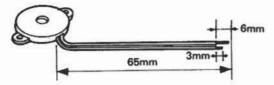
Leave this terminal-

blank.

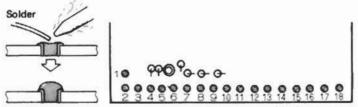
 Cut the battery snap lead wire to 80mm. Strip 3mm of vinyl insulation from them, then tin the core strands.



4. Cut the piezoelectric pickup lead wires to 85mm. Strip 6mm of vinyl insulation from one wire, and 3mm from the other (It doesn't matter which one you select), then tin the core strands.



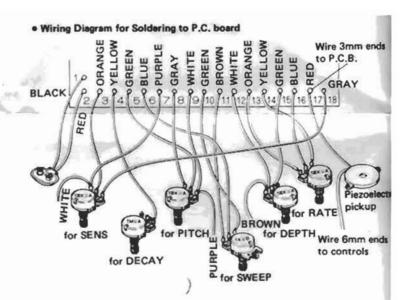
On the P.W.B. there are eyelet holes numbered from 1 to 18. (on the component mounting side, fill up the holes with molten solder in preparation for the following soldering steps.)



- *Pay extreme care, not to touch any adjacent parts with the heated soldering iron.
- 6. Solder the lead wires to the P.C.B. No further solder application is required since the eyelets have enough solder from the previous step.

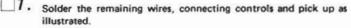


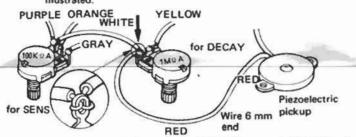
* Position the lead wire and apply the heated soldering iron tip from upper side. Remove iron when solder melts, hold wire in place for a few monents to allow solder solidify.



Lead wire from Connection to Battery Snap Connector . .BLK → 1) RED → 2 .ORN →3 PRP → 7 SENS Control 100KΩA . .YEL → (1) DECAY Control 1MΩA . . WHT → 9 PITCH Control 100KΩA .GRN - (5) GRA → ® .BLU → ® GRN → 10 BRN → 10 SWEEP Control 1KΩB. . DEPTH Control 100KΩA ORA → B YEL → B BLU → B

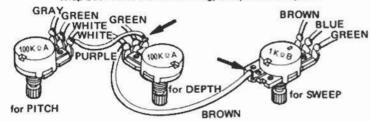
Refer to the Diagram. Be careful not to make misconnections. With a red pencil or the like, check completion of soldering wire by wire, to make doubly.





Solder to the blank terminal of DECAY control (1M Ω A) both the WHITE lead from SENS control (100K Ω A) and the RED from Piezoelectric pickup.

Wrap both wires the terminal lug, then, solder the joint.

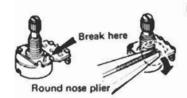


Solder to the blank terminal of DEPTH Control (100K Ω A), the PURPLE wire from PITCH Control (100K Ω A).

Solder to the blank terminal of SWEEP Control (1K Ω B), the BROWN wire from DEPTH Control (100K Ω A).

★ The soldering works end here. Turn off the power to the soldering iron, then proceed to the next step.

The fit/detention key studs of all control pots are unnecessary in this assembly. Break them off with pliers, before proceeding to the next step. Be sure to break them flat from the bottom so that no protrusion is left to cause a slant mounting to the case.





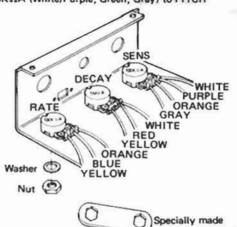
Remaining park of stud will cause slant mounting. 9. Fix the controls to the case as follows – top row: 100ΚΩΑ (Yellow, Blue, Orange) to RATE 1MΩΑ (Yellow, White/Red) to DECAY 100ΚΩΑ (Gray, Orange, White/Purple) to SENS

Use the specially made hexagonal wrench to tighten the washers and nuts, — second row:

100KΩA (Purple, Green, White/Brown) to DEPTH 1KΩB (Green, Blue, Brown) (Brown) to SWEEP

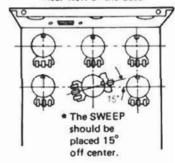
(The SWEEP should be fixed in a position 15° from the horizontal as illustrated.)

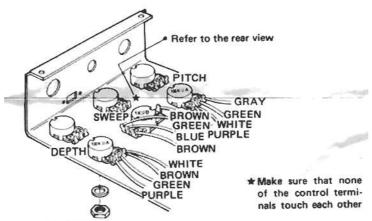
100KΩA (White/Purple, Green, Gray) to PITCH



Rear view of the Case

hexagonal wrench

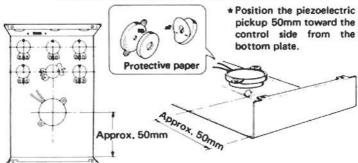




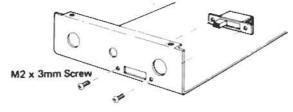
* CHECK: With this step, all the wiring works are finished.

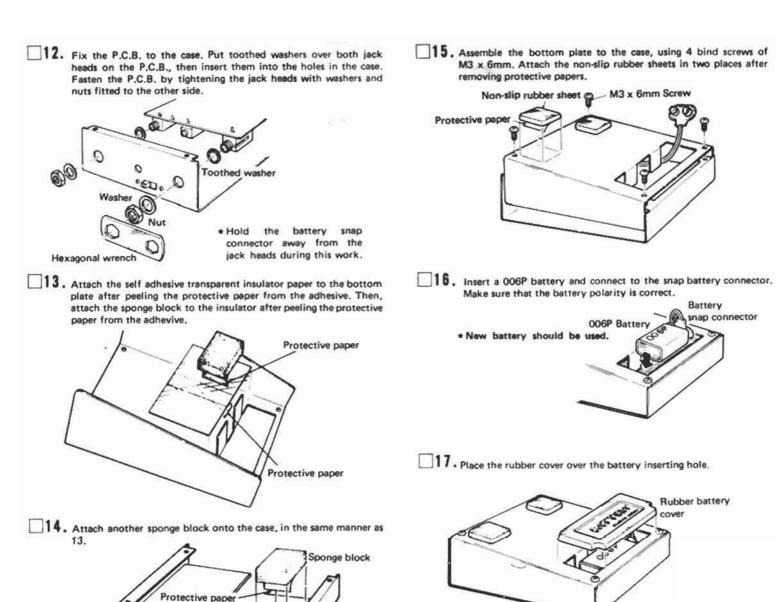
Make one more check to ascertain that the wiring is correct.

10. Peel off one protective paper from the cushion ring exposing the adhesive attach it to the piezoelectric pickup. Remove the remaining protective paper from the other side; attach the piezoelectric pickup with the cushion ring to the case.

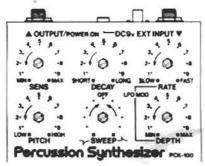


11. Fix the slide switch to the case. This will become necessary later when you use it for modifications.





■ 18. Now, fit the knobs to the controls, Firstly, turn the shaft fully CCW (Counter-clock wise), then insert the knob onto the the shaft so that the knob indicator is aligned to the (•) mark on the panel. With the SWEEP Control the shaft should be brought to the center click position, then insert the knob so that the indicator meets with the OFF mark.





19. Attach the pad in position upon the case, removing firstly the self adhesive protective paper.

