

HAND KEY KIT CONTENTS AND ASSEMBLY

PARTS LIST

1 pre-assembled bearing block

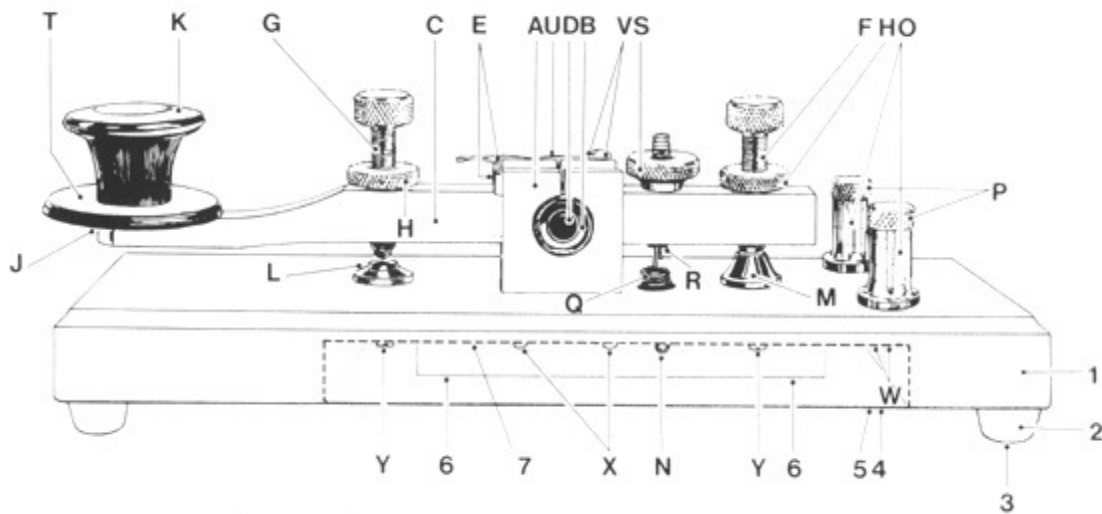
- (A) 1 bearing block
- (B) 2 ball race bearings
- (C) 1 main arm
- (D) 1 steel pivot pin
- (E) 2 3mm brass screws
1 3mm socket set screw

- (F) 1 plain brass screw
- (G) 1 tipped screw
- (H) 2 knurled locking nuts
- (J) 1 brass knob mounting stud
- (K) 1 plastic knob
- (L) 1 front tipped contact
- (M) 1 rear brass stop
- (N) 1 spring retaining pin
- (O) 2 terminal posts
- (P) 2 terminal post screws
- (Q) 1 spring
- (R) 1 spring tension stud
- (S) 1 brass adjusting nut
- (T) 1 plastic skirt
- (U) 1 length of braided wire
- (V) 2 3mm brass screws
- (W) 2 long 4mm screws
- (X) 4 3mm screws
- (Y) 2 short 4mm screws
8 3mm washers
3 3mm solder tags
3 4mm solder tags
4 4mm washers

BASE AND FITTINGS

- (1) 1 wood base
- (2) 4 rubber feet
- (3) 4 RH wood screws
- (4) 1 steel cover plate
- (5) 1 green baize
- (6) 2 steel weights
2 CSK wood screws

Read all of the instructions before starting the assembly



1. On the base loosely fit the front silver tipped contact (L) using a short 4mm screw having first placed a solder tag and a washer under the screw head.
2. Loosely fit the rear brass stop (M) using a short 4mm screw and washer.
3. Take the bearing block and arm assembly and fit screws (F) and (G) together with the knurled locking nuts (H) (Note the tipped screw is at the front) and allow the screws to protrude underneath by not more than 3mm. Fit the plastic knob (K) and skirt (T) using the brass mounting stud. Do not allow the stud to protrude underneath.
4. Loosely fit the bearing block assembly using the four 3mm screws and washers having first placed a 3mm solder tag under any one of the screw heads
5. Align the front contacts and rear stops then tighten all the screws. At this stage check that the top and bottom contacts and the rear stops are correctly aligned. If necessary, make adjustments to ensure correct alignment.
6. Fit the two terminal posts (O) and screws (P) using 4mm screws, having first placed solder tags and washers under the screw heads.
7. Solder a short length of wire between:-
 - (i) The front contact solder tag and any one of the terminal posts solder tags.
 - (ii) The bearing block solder tag and the second terminal post solder tag.
8. Cut the length of the braided wire to approximately 65mm long then solder each end to a 3mm solder tag and fit to the bearing block and arm using the 3mm brass screws (V)
9. Taking care to protect your eyes, attach spring (O) to brass stud (A) then pass the stud through underside of base into the brass arm, securing with steel retaining pin (N) on the underside and knurled brass adjusting nut (S) on top.

10. Position the two steel weights (6), one on each side of the base cut out, securing with the two csk wood screws.
11. On the steel cover plate attach the self -adhesive green baize strip and trim off surplus with a sharp knife or scissors (Note: take care not to damage table top and fingers if using a knife)
12. Locate the steel cover plate centrally on the base, then secure with the four round head wood screws and rubber feet, having first placed a 3mm washer in the recess of each of the rubber feet. The screws should be located in the four pre-drilled pilot holes.

Twin paddle key kit contents and assembly

1 pre-assembled bearing block assembly

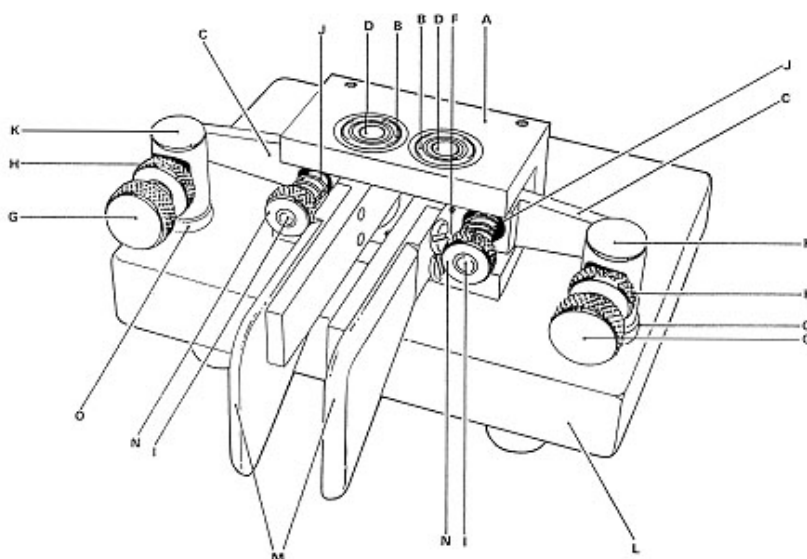
consisting of A to F:

- (A) 1 bearing block
- (B) 4 ball race bearings
- (C) 2 contact arms
- (D) 2 steel pivot pins
- (F) 2 3mm grub screws

- (G) 2 brass contact screws
- (H) 2 knurled locking nuts
- (I) 2 spring tension nuts
- (J) 2 springs
- (K) 2 contact adjusting pillars

- (L) 1 steel base
- (M) 2 plastic paddles
- (N) 2 knurled spring adjusting nuts
- (O) 4 plastic insulators

- 2 long 4mm screws
- 3 long 3mm screws
- 4 short 3mm screws
- 4 2.5mm screws
- 2 3mm grub screws
- 1 short 4mm screw
- 3 3mm washers
- 2 4mm washers
- 4 rubber feet
- 1 length of 3 core cable
- 2 4mm solder tags
- 1 3mm solder tag
- 1 cable clamp
- 1 Allen key



ASSEMBLY NOTES

Read all the instructions before starting the assembly and refer to the diagram during the assembly of your Morse key.

1. On the bearing block assembly fit the two plastic paddles (M) using the four 2.5mm screws. Note which way up the bearing block mounts onto the steel base, using the three mounting holes in the bearing block. The plastic paddles can be fitted pointing either up or as in the diagram, down.
2. Fit the two spring tension studs (I) by inserting them into the holes in the back of the bearing block so that the threaded part passes through the contact arm (C). Lightly secure using the two 3mm grub screws in the two top holes in the bearing block using the allen key supplied.
3. Fit the two springs (J) over the adjusting studs, retaining them with the spring adjuster nuts (N).
4. Slacken each of the 3mm grub screws in turn and adjust the spring tension studs back and forth until the two paddle arms come out from the bearing block square and are parallel to each other. When the correct position has been reached tighten the two grub screws.
5. On the base fit the four rubber feet using the four short 3mm screws.
6. Using the three long 3mm screws, washers and the 3mm solder tag fit the bearing block to the base. The solder tag should be fitted to the centre screw.
7. Loosely fit the two contact adjusting pillars (K) with the four insulators (O) using the two 4mm screws having first placed washers and solder tags under the screw heads.
8. Fit the two contact screws (G) together with knurled locking nuts (H) into the contact pillars (K). Adjust the contact assemblies on each side to align the contacts and finally tighten the two 4mm screws.
9. Using the cable clamp and the short 4mm screw secure the cable to the base. Connect each of the three cores of the cable to each of the three solder tags.