

HANDI-Finder™ EXPERIMENTER'S KIT

COMPONENT PARTS PACKING LIST and ASSEMBLY NOTES, rev. 12-28-2005

Qty	Description
4	Sets, 6-32 x 1/2" (or 3/8") Binder Head Machine Screws, flat washers, nuts, and lock washers. (Use lock washers under nuts, and use a flat washer against the board so the lock washer doesn't cut into the circuit board foil.)
1	C1, capacitor, .022uF/50V (labeled "223" or similar code)
6	C2, C3, C4, capacitor, .001uF/50V, ceramic disk (may be labeled "102") C5, capacitor, .001uF/50V, ceramic disk. C6, C7, capacitor, .001uF/50V (ceramic disk) optional, see text.

SOMETIMES THE .001's SUPPLIED MAY HAVE SHORT PRECUT LEADS. WE TRY TO MAKE SURE THAT AT LEAST ONE HAS LEADS LONG ENOUGH TO BEND AND FORM TO THE HOLE SPACING FOR C5. BE CAREFUL TO FIND AND SET IT ASIDE FOR USE AS C5.

Capacitors C2 through C7 may come with leads preformed in a shape that would cause the caps to sit higher than desired. If you plan to later mount the unit in an enclosure, you may wish to reform the leads working carefully with needle-nose pliers so that the tops of the caps extend no higher than 5/16" above the board surface, i.e. the height of the slide-switch body.

2	D1, D2, diode, switching, Silicon, 1N4148 or 1N914
3	R1, R2, R3, resistor, carbon film, 10k, 1/4w, 5% (Brn-Blk-Org-Gold)
3	R4, R5, R6, resistor, carbon film, 1k, 1/4w, 5% (Brn-Blk-Red-Gold)
1	S1, micro-mini slide-switch, DP3T, ALCO MHS-223 or COMAX 02, ON-OFF-ON (Function: <i>UP-ON-D.F.</i> ; <i>CENTER-OFF</i> ; <i>DOWN-ON-STBY-LISTEN</i>) (CAREFULLY CLIP THE CORRECT 2 of 4 DIAGONAL BODY-MOUNTING TABS off the "COMAX" (brand name) switch to fit the holes for mounting on the top side of the circuit board.

---The above should be found in small envelope---

1 ea	U1, IC, CD4047B or equivalent, mounted in 14 DIP socket, foil-wrapped.
1 ea	Battery Holder, Keystone #1291 (--which has ribbon leads that may be a tight fit into the holes. Ease them in slowly and carefully.)
1 ea	PC Board and Instruction Manual

The user must add: 2 antennas, 9V battery, coax cable downlead with connector, and handle.
(An alkaline battery will give best service.)

SAFETY NOTICE: HANDLE the CIRCUIT BOARD CAREFULLY! BLOCK-SAND EDGES AND CORNERS TO REMOVE BURRS AND FIBERGLASS SLIVERS! Electronic construction requires use of solder with appropriate rosin-core (non-add) flux. SOLDER CONTAINS LEAD and OTHER METALS and FLUXES WHICH ARE DANGEROUS; and GIVES OFF DANGEROUS FUMES ESPECIALLY WHEN HEATED. TAKE PRECAUTIONS!

If you have any missing or defective parts, or are in any way dissatisfied, regardless of where you bought your kit, contact the *master distributor*: NOARD, Inc., P.O. Box 271, Brunswick, OH 44212, 330-225-7373. Describe the problem, and state where you purchased the unit. Be sure to include the series number on the circuit board, and state whether the RALTEC, NOARD, or *other* trademark appears thereon. --www.noard.com