

HANDI-Finder[®] EXPERIMENTER'S KIT

COMPONENT PARTS PACKING LIST and ASSEMBLY NOTES, rev code: VMJ

4 ea Sets, 6-32 x 1/2" (or 3/8") binder head machine screws, flat washers, lock washers, and nuts. Insert screw with threads on the non-component side. *Put the "domed" side of the flat washer against the foil terminal pad of the board., then the antenna "eyelet", then the serrated lock washer, and finally the nut. See manual for complete discussion.*

1 ea C1, capacitor, .022μF/50V (labeled "223" or similar code) Mylar type, --sets frequency.
-- **"JUMPER" is made from the wire cut off of C1 or similar! Don't forget to install the jumper!**
1 ea C2 thru C7 capacitor, 1000pF/50V, ceramic disk (may be labeled "102")
-- C8, capacitor, 0.056μF to 0.1uF bypass is NOT needed, and NOT supplied with the PC board kit.
Note: some boards have a labeling error where the capacitor to the right of C1 is incorrectly labeled as C2, and should be labeled C8.

1 ea D1, D2, diode, switching, Silicon, 1N4148, 1N914, or similar.
3 ea R1, R2, R3, resistor, carbon film, 10k, 1/4w, 5% (Brn-Blk-Org-Gold)
3 ea R4, R5, R6, resistor, carbon film, 1k, 1/4w, 5% (Brn-Blk-Red-Gold)
1 ea S1, micro-mini slide-switch, DP3T, ALCO MHS-223 or COMAX 02, ON-OFF-ON
(Position/Function: UP = ON-D.F.; CENTER = OFF; DOWN = ON-STBY-LISTEN)

The above items are usually found in a small bag, and these following parts are in the main bag:

1 ea U1, IC, CD4047B or equivalent, mounted in 14 DIP socket, foil-wrapped.
1 ea Battery Holder, Keystone #1291 (--has ribbon leads that may be a tight fit into the holes. Ease them in carefully.) The bottom end can be fastened with Pop Rivets from the top if you have, or can borrow the installation tool, and the assortment. Use the .063"- to 0.125" range; OR by tightly wrapping leftover component lead wires thru adjacent solder pads and soldering.
1 ea PC Board, and Instruction Manual

The user must add: 2 antennas, 50-Ohm coax cable down-lead with connector, a handle and 9V battery.
(An alkaline battery will give best service; --current draw is 1.7mA.)

MORE SAFETY NOTES:

Use ventilation and wear goggles and gloves for protection!

THIS IS NOT A KIT FOR BEGINNERS. HANDLE the CIRCUIT BOARD CAREFULLY! Electronic construction requires use of solder with appropriate rosin-core (non-acid) flux. SOLDER CONTAINS LEAD and OTHER METALS and FLUXES, WHICH ARE DANGEROUS, and GIVE OFF DANGEROUS FUMES ESPECIALLY WHEN HEATED. TAKE PRECAUTIONS! The newer "no-lead" solder, if used, requires careful temperature control and a lot of experience to get good results. Extra Rosin Flux helps with all solder types and can be cleaned off with common 91-percent isopropyl "rubbing alcohol" available at drug stores. Set up a little fan to draw the soldering and cleaning fumes away, and avoid inhaling these fumes!

California Prop 65 WARNING: Cancer and Reproductive Harm  www.P65Warnings.ca.gov

WARNING! DO NOT USE EXCESSIVELY LONG POLES OR ALLOW the HANDI-Finder or any antennas to ever come into contact with overhead wires or other potential sources that can cause electrical shock and injury! Always be aware of your surroundings! Work to foresee hazardous situations and avoid them! Think about the people around you, watch for sharp edges, and don't hold or lose things out of car windows. Avoid making yourself a target for lightning as well. Don't take chances or tempt fate!

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, Tel. 330-225-7373. Describe the problem, and state where/when you purchased the unit. Be sure to include all names and numbers on the circuit board. for our identification process. --www.noard.com.

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