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**SBE 49CB Tahoe 40 Owner's Manual**

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# TAHOE 40

MODEL SBE-49CB



## OWNER'S MANUAL



## ACCESSORIES



### SBE-1AC BASE STATION POWER SUPPLY

Rear terminals permit you to connect your unit in seconds. Plugs into any 110V 60Hz outlet. Top and bottom rubber feet hold it firm, yet prevent it from scratching surfaces above and below.

### SBE-1SP ACCESSORY SPEAKER

This speaker allows sound to be focused toward the listener when mounted overhead, on sun shield or on inside rear shelf of vehicle. Speaker is closer to operator and not subject to under-dash muffling.

Tilttable "U" shape bracket facilitates mounting. Compact speaker is attractively finished in flat black and has protective grill. Speaker cone and dust cover are treated for resistance to moisture. The 6 foot cable provided terminates in a miniature plug. Power rating, 4-6W, impedance 4 $\Omega$ .

Size: 4.8"W, 4"H, 1.7"D. MM: 102H, 45D, 111W



### SBE-1SP/AMP ACCESSORY SPEAKER with amplifier

Another SBE, "Beat mobile noise" innovation turns any meek muffled audio channel into a roaring lion! The *means*: The SBE-1SP speaker is fortified by 6 big watts of audio supplied by a built-in solid-state audio amplifier that plugs into set's auxiliary speaker outlet. Amplifier is powered directly from vehicle 12V battery, *either positive or negative ground*. Amplifier is easily driven by audio output available from most CB transceivers, is biased near Class B so standby current is only 0.015A and increases in proportion to signal output.

Input can be either 4 or 8 $\Omega$ . Cord with plug and power leads is supplied.

Size: 4.8"W, 4"H, 1.7"D. MM: 102H, 45D, 111W.



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## GETTING ON THE AIR

You must have an FCC license to operate this unit. If you do not presently have one, consult page 22. You may start operating under a temporary license as soon as the enclosed Form 505 is mailed. If your TAHOE 40 is already installed, you may proceed immediately to the next section—OPERATING INSTRUCTIONS. For those who prefer to do their own installation, detailed installation instructions are included.

## OPERATING INSTRUCTIONS

Receive:

1. Set the CB/PA switch to CB.
2. Turn the volume control clockwise. The S/RF meter and CHANNEL INDICATOR should illuminate.
3. Turn SQUELCH control fully counterclockwise.
4. Adjust VOLUME control until a hissing sound or voice is heard at a comfortable level.
5. Slowly turn SQUELCH control clockwise until the hissing sound just disappears or until unintelligible weak signals are eliminated.
6. Turn CHANNEL knob until a channel with CB traffic is found. Adjust TONE control.
7. Readjust SQUELCH control until unwanted weak signals are eliminated.

Transmit:

You must have a Class D station license before transmitting. All channels, except channel 9, may be used for normal communications. Channel 9 has been reserved by the FCC for emergency communications, such as protection of property or assistance to a motorist.

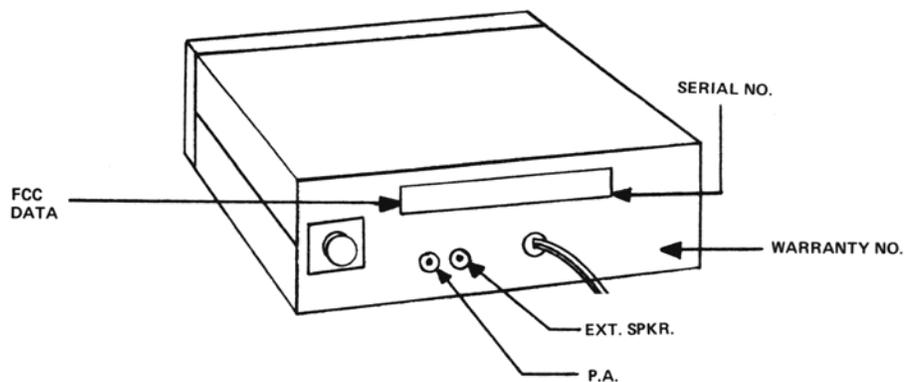
1. Select desired channel; listen, and when clear press PTT button. Tx light will come on, and S/RF meter will show output power.
2. Hold the microphone close to your mouth and speak clearly.
3. Release the PTT button and listen for a reply.

## CONTROLS AND INDICATORS

1. VOLUME Control - Turns radio on and controls volume in CB and PA mode.
2. CB/PA Switch - In PA position, radio can be used with an external speaker as a public address system. Press PTT Button and microphone audio will be amplified through speaker; release PTT Button and CB receiver audio will be heard through speaker.
3. S/RF Meter - Indicates relative strength of received signal and output power of the transmitter.



4. TX Light - Indicates when the transmitter is on (keyed).
5. CHANNEL INDICATOR - LED digital readout displays channel selected.
6. CHANNEL KNOB - Selects channel.
7. SQUELCH Control - Adjusts level at which weak signals and noise are eliminated.
8. PTT (Push-to-Talk) Button - Keys (turns on) transmitter when pressed.
9. PA JACK - Permits 8 $\Omega$ , 4 watts or better PA speaker to be connected.
10. EXT SPRK JACK - Permits 4 or 8 $\Omega$ , 4 watts or better speaker to be connected. Disables internal speaker when connected.



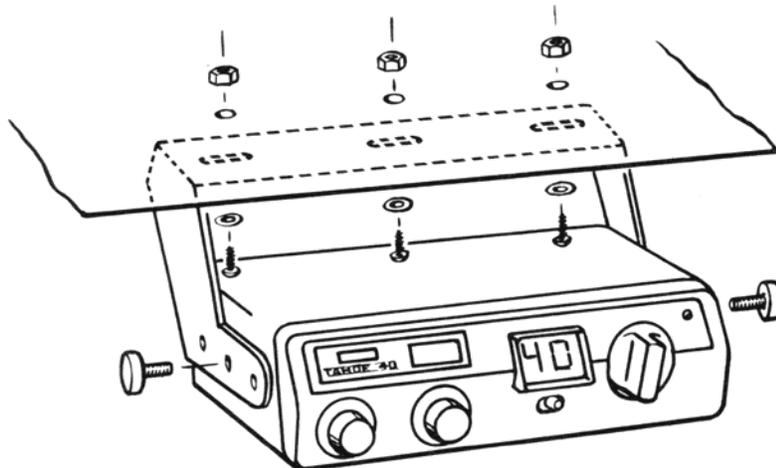
## INSTALLATION

A good installation is the most important factor in achieving maximum performance from your TAHOE 40. Complete installation service is available from many CB radio dealers. While no special tools are needed for installation, the antenna installation should be checked with a good quality VSWR meter. If you do your own installation and do not have access to a VSWR meter, it is recommended that you have the installation checked by a local CB radio dealer.

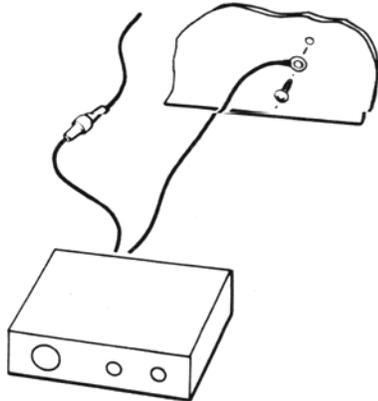
### PERMANENT INSTALLATION

Choose a convenient location for your TAHOE 40. Usually, this is under the dash, but the TAHOE 40 may be mounted in any position on a rigid surface. Check to be sure that the radio is not in the direct air stream of the vehicle's heater and that there is sufficient space behind the radio for antenna and accessory cable connections. Make certain that the microphone is easily accessible. The microphone holder may be mounted either on the side of the radio where convenient holes are provided or on any rigid surface.

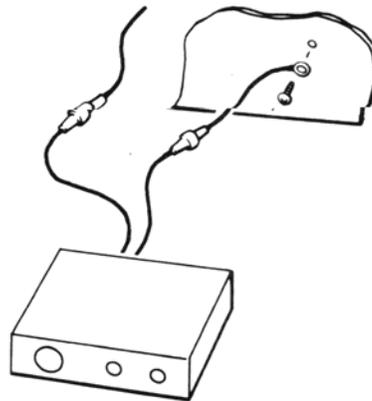
Attach the bracket to the radio and hold the unit against the planned mounting surface. Draw around the bracket so as to leave an outline on the mounting surface. Check to be sure that holes drilled through the mounting surface to secure the bracket will not damage any of the vehicle's components. Find a clear, accessible path between the antenna and radio mounting locations. Remove the antenna cable from the antenna's packing. Snake the cable along the intended path. Tie or tape the excess cable into a neat roll and tuck into a concealed space. Install the antenna according to the manufacturer's instructions. Detach the bracket from the radio, place into the outline and mark and center punch screw holes. Drill  $7/32''$  clearance. To insure that the drill will not punch through and damage any part of the vehicle, wind a few turns of tape about  $1/2$  inch from the tip of the drill bit. Mount bracket and then mount radio.



Before wiring your TAHOE 40 to power, check the ground polarity of your vehicle by consulting the owner's manual or observing which battery terminal is connected to the vehicle's chassis. An additional 2 amp fuse and holder must be wired into the negative (black) power lead in positive ground vehicles. The TAHOE 40 may be connected to the accessory side of the ignition switch. If this connection proves to be too noisy, direct connection to the battery is recommended.



**NEGATIVE GROUND  
HOOK-UP**



**POSITIVE GROUND  
HOOK-UP**

### **CHOOSING AN ANTENNA**

The type of antenna and mounting location determines the direction and range of communication. A CO-PHASE antenna gives maximum range to the front and rear of the vehicle, and is best suited for communicating with distant vehicles traveling on the same straight highway. A single antenna mounted on the center of the vehicle gives the best range in all directions and is best suited for city or general purpose communication. A single antenna will be directional when mounted away from the center of the vehicle. Figure shows a method for determining the direction.

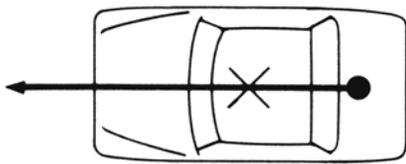
### **ANTENNA MOUNTING LOCATION**

The best antenna location in most vehicles is the center of the passenger compartment roof. The trunk is a satisfactory location, especially if it is large and flat. Due to ignition noise, the antenna should not be mounted over the engine compartment. Various types of clamp-on antennas are available for temporary mounting on side mirrors, luggage racks, rain gutters and bumpers. These antennas permit the antenna cable to be dressed through vents, side windows, or under the vehicle without drilling holes. A permanent antenna should be mounted in a location that permits dressing the antenna cable through the vehicle's frame or under its upholstery.

**FIGURE 1**  
**DETERMINING ANTENNA RANGE DIRECTION**

Before installing an antenna, an approximation of the direction of maximum range can be obtained by following these rules.

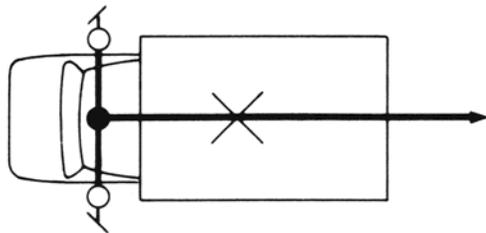
1. Draw a rough silhouette of the vehicle as seen from above.
2. Place a small x in the approximate center of the silhouette.
3. Place a dot on the silhouette where a single antenna is planned, or, if a co-phase is to be used, draw a line connecting the antennas. Place a dot in the center of this line.
4. Draw a line from the dot through the x. This line will point in the predominant direction. The longer the distance between the x and the dot the more predominant will be the range in that direction. A single antenna placed on the x will communicate equally in all directions. If the line connecting co-phase antennas intersects the x, the predominant direction will be in both directions perpendicular to the line.



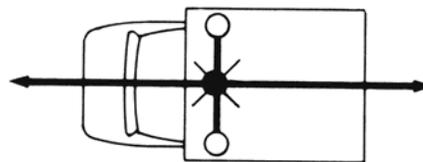
**TRUNK MOUNT**



**PASSENGER COMPARTMENT  
MOUNT**



**CO PHASE  
MIRROR MOUNT**



**CO PHASE  
SIDE MOUNT**

### INTERFERENCE REMEDY CHART

TYPE OF INTERFERENCE	CAUSE	REMEDY
POPPING - increases rate with engine speed. Stops instantly when ignition is shut off.	Ignition	Make certain that engine is properly tuned. Install resistor plug with suppressor cable if vehicle does not already have them.
WHINE - goes up with engine speed. Whines down when ignition is shut off.	Generator or Alternator	Clean commutator or slip rings. Check brushes.
POPPING OR RUSHING - occurs in dry weather at high speeds.	Wheels and Tires	Install static collector rings in front wheel caps or put anti-static powder in inner tube or tire.
Occurs when accessory is turned on.	Accessory	Install 0.25 MFD capacitor across power terminals at accessory.
CRACKLING, CLICKING- occurs as gauges operate or dash is jarred.	Gauge or Voltage Limiter	Clip 0.25 MFD capacitor across gauges and voltage limiter until interference disappears. Install capacitor at that point.

### TAKING A CB RADIO INTO ANOTHER COUNTRY

Since laws change, always check with a country's Consul General's Office before taking a CB radio into that country. Many countries do not presently offer CB service while others do not offer it on the same frequencies. The CB frequencies used in the United States and Canada are used by some countries for government and commerce.

Persons holding valid U.S. Citizens Band licenses or temporary permits may obtain authority to operate in Canada by requesting D.O.C. Form "APPLICATION FOR REGISTRATION OF RADIO STATION LICENSEE OF UNITED STATES OF AMERICA" from a Canadian consulate and mailing it in at least 60 days prior to entry into Canada. Canadians planning to travel in the United States should obtain F.C.C. Form 410-B, "APPLICATION FOR PERMIT TO OPERATE A CANADIAN GENERAL RADIO SERVICE STATION IN THE UNITED STATES."

Mexico does not have a Citizens Band service. It is against the law to take a Citizens Band transceiver into Mexico.

## **SERVICE**

If your TAHOE 40 fails to perform as stated in this manual, it is recommended that SBE be contacted in writing at the following address:

SBE, INC.  
220 Airport Blvd.  
Watsonville, California 95076

SBE will either authorize return of the unit to the factory or refer you to an authorized SBE repair agency in your area. Do not ship equipment without prior written authorization from SBE. Your letter to SBE must include the following particulars.

1. Model number and serial number of equipment.
2. Date of purchase of equipment.
3. Nature of trouble.
4. Cause of trouble if known.
5. Name of distributor from whom the equipment was purchased.
6. Your return address.
7. Method of shipment by which the equipment should be returned.

Also include any information that you feel will be helpful in locating or correcting the problem.

## **ORDERING PARTS**

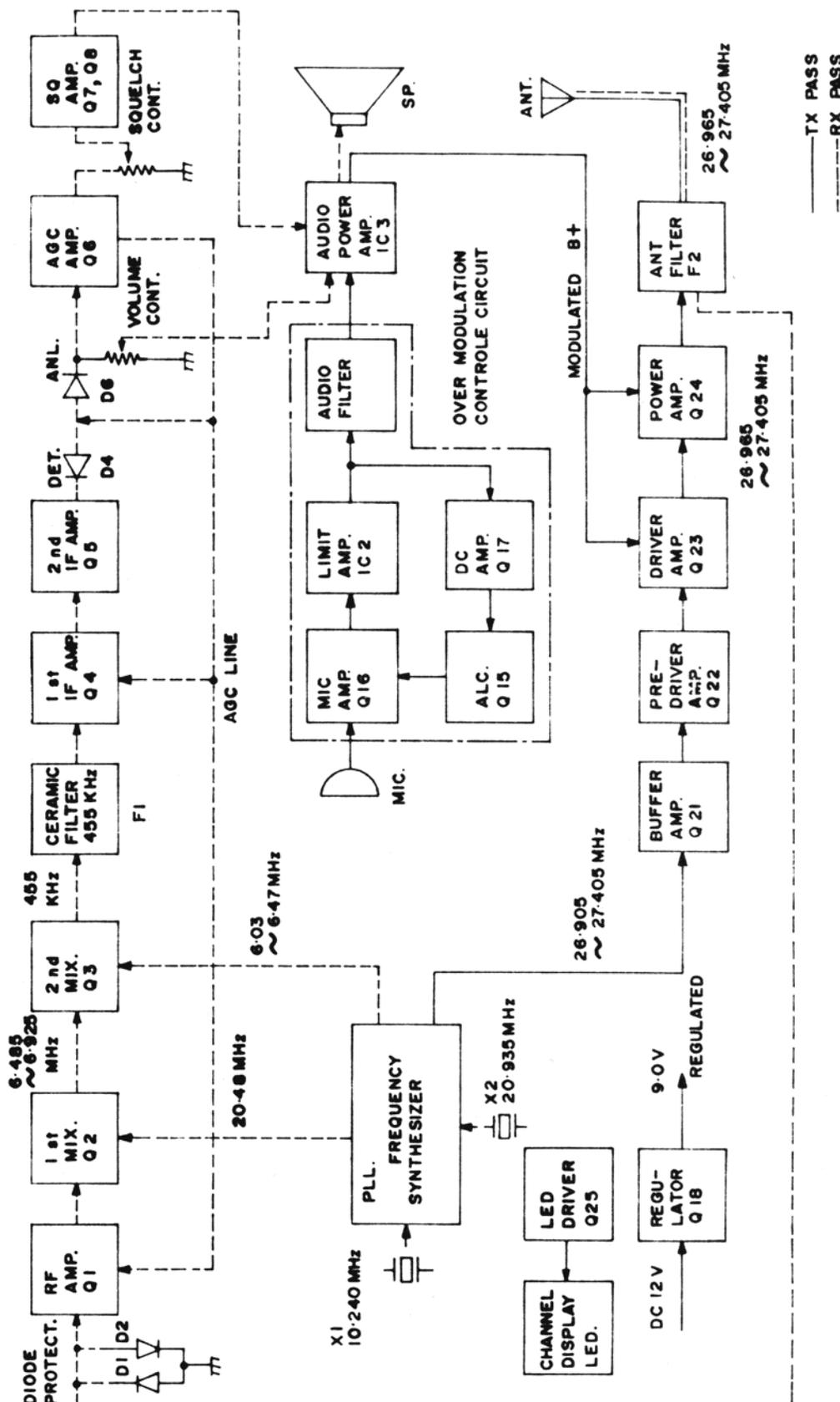
When ordering replacement parts, direct your order to an SBE distributor or SBE's parts facility:

220 Airport Blvd.  
Watsonville, California 95076

Furnish the following information:

1. Quantity required.
2. SBE part number and description.
3. Item or symbol number obtained from parts list, schematic, or component location drawing.
4. SBE model number and serial number.

Unless specified, SBE will determine the best method of shipment for the parts involved. If payment does not accompany the order, parts will be sent C.O.D.



— TX PASS  
 - - - RX PASS

## SBE-49 CB PARTS LIST

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
C1	8000-00003-009	Capacitor, 30pfd, Ceramic
C2	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C3	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C4	8000-00006-223	Capacitor, 7 pfd, Ceramic
C5	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C6	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C7	8000-00048-028	Capacitor, 15 pfd, Ceramic
C8	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C9	8000-00049-006	Capacitor, 0.22 mfd, Ceramic
C10	8000-00049-006	Capacitor, 0.22 mfd, Ceramic
C11	8000-00041-001	Capacitor, 10 pfd, Ceramic
C12	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C13	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C14	8000-00003-027	Capacitor, 220 pfd, Ceramic
C15	8000-00024-207	Capacitor, 0.0033 mfd, Poly-film
C16	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C17	8000-00003-009	Capacitor, 30 pfd, Ceramic
C18	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C19	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C20	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C21	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C22	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C23	8000-00006-276	Capacitor, 0.047 mfd, Poly-film
C24	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C25	8000-00006-078	Capacitor, 0.0022 mfd, Ceramic
C26	8000-00028-013	Capacitor, 0.01 mfd, Ceramic
C27	8000-00041-010	Capacitor, 0.47 mfd, 50V, Elect.
C28	8000-00049-010	Capacitor, 0.0068 mfd, Poly-film
C29	8000-00041-010	Capacitor, 0.47 mfd, 50V, Elect.
C30	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C31	8000-00041-010	Capacitor, 0.047 mfd, 50V, Elect.
C32	8000-00049-012	Capacitor, 2.2 mfd, 50V, Elect.
C33	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C34	8000-00041-013	Capacitor, 100 mfd, 10V, Elect.
C35	8000-00048-034	Capacitor, 5 pfd, Ceramic
C36	8000-00040-041	Capacitor, 20 pfd, Ceramic
C37	8000-00003-009	Capacitor, 30 pfd, Ceramic
C38	8000-00028-092	Capacitor, 3 pfd, Ceramic
C39	8000-00049-014	Capacitor, 3.3 mfd, 50V, Elect.
C40	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C41	8000-00005-077	Capacitor, 47 mfd, 10V, Elect.
C42	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C43	8000-00049-004	Capacitor, 220 pfd, Ceramic

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
C44	8000-00041-001	Capacitor, 10 pfd, Ceramic
C45	8000-00049-001	Capacitor, 10 pfd, Ceramic
C46	8000-00049-003	Capacitor, 30 pfd, Ceramic
C47	8000-00028-192	Capacitor, 2 pfd, Ceramic
C48	8000-00041-012	Capacitor, 33 mfd, 10V, Elect.
C49	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C50	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C51	8000-00024-010	Capacitor, 68 pfd, Ceramic
C52	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C53	8000-00023-013	Capacitor, 0.001 mfd, Ceramic
C54	8000-00041-005	Capacitor, 250 pfd, Ceramic
C55	8000-00041-005	Capacitor, 250 pfd, Ceramic
C56	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C57	8000-00048-034	Capacitor, 5 pfd, Ceramic
C58	8000-00049-017	Capacitor, 0.1 mfd, 10V, Elect.
C59	8000-00028-158	Capacitor, 0.0047 mfd, Ceramic
C60	8000-00028-026	Capacitor, 10 mfd, 16V, Elect.
C61	8000-00003-008	Capacitor, 100 pfd, Ceramic
C62	8000-00028-026	Capacitor, 10 mfd, 16V, Elect.
C63	8000-00041-009	Capacitor, 0.033 mfd, Poly-film
C64	8000-00028-005	Capacitor, 0.01 mfd, Poly-film
C65	8000-00028-013	Capacitor, 0.001 mfd, Ceramic
C66	8000-00028-026	Capacitor, 10 mfd, 16V, Elect.
C67	8000-00028-026	Capacitor, 10 mfd, 16V, Elect.
C68	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C69	8000-00041-013	Capacitor, 100 mfd, 10V, Elect.
C70	8000-00047-014	Capacitor, 0.015 mfd, $\pm 5\%$ , Poly-film
C71	8000-00049-008	Capacitor, 0.0027 mfd, $\pm 5\%$ , Poly-film
C72	8000-00049-009	Capacitor, 0.022X mfd, $\pm 5\%$ , Poly-film
C73	8000-00028-201	Capacitor, 0.039 mfd, Poly-film
C74	8000-00006-166	Capacitor, 0.0047 mfd, Poly-film
C75	8000-00049-016	Capacitor, 1 mfd, 50V, Elect.
C76	8000-00040-044	Capacitor, 330 pfd, Ceramic
C77	8000-00049-018	Capacitor, 4.7 mfd, 10V, Elect.
C78	8000-00049-005	Capacitor, 500 pfd, Ceramic
C79	8000-00041-012	Capacitor, 33 mfd, 10V, Elect.
C80	8000-00028-200	Capacitor, 0.022 mfd, Poly-film
C81	8000-00005-077	Capacitor, 47 mfd, 10V, Elect.
C82	8000-00028-032	Capacitor, 220 mfd, 16V, Elect.
C83	8000-00049-005	Capacitor, 500 pfd, Ceramic
C84	8000-00049-007	Capacitor, 0.22 mfd, B.L.C.
C85	8000-00049-011	Capacitor, 0.22 mfd, Poly-film
C86	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C87	8000-00041-014	Capacitor, 330 mfd, 16V, Elect.
C88	8000-00028-027	Capacitor, 100 mfd, 16V, Elect.
C89	8000-00049-012	Capacitor, 2.2 mfd, 50V, Elect.
C90	8000-00041-008	Capacitor, 0.047 mfd, Ceramic

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
C91	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C92	8000-00049-013	Capacitor, 4.7 mfd, 50V, Elect.
C93	8000-00049-019	Capacitor, 3.3 mfd, 10V, Elect.
C94	8000-00006-276	Capacitor, 0.047 mfd, Poly-film
C95	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C96	8000-00049-015	Capacitor, 0.47 mfd, 50V, Elect.
C97	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C98	8000-00028-024	Capacitor, 1 mfd, 50V, Elect.
C99	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C100	8000-00041-013	Capacitor, 100 mfd, 10V, Elect.
C101	8000-00005-077	Capacitor, 47 mfd, 10V, Elect.
C102	8000-00040-46	Capacitor, 1.5 pfd, Ceramic
C103	8000-00028-015	Capacitor, 150 pfd, Ceramic
C104	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C105	8000-00048-028	Capacitor, 15 pfd, Ceramic
C106	8000-00028-092	Capacitor, 3 pfd, Ceramic
C107	8000-00003-027	Capacitor, 200 pfd, Ceramic
C108	8000-00006-078	Capacitor, 0.0022 mfd, Ceramic
C109	8000-00003-008	Capacitor, 100 pfd, Ceramic
C110	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C111	8000-00040-047	Capacitor, 4 pfd, Ceramic
C112	8000-00040-047	Capacitor, 4 pfd, Ceramic
C113	8000-00028-004	Capacitor, 50 pfd, Ceramic
C114	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C115	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C116	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C117	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C118	8000-00028-015	Capacitor, 150 pfd, Ceramic
C119	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C120	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C121	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C122	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C123	8000-00041-004	Capacitor, 250 pfd, Ceramic
C124	8000-00041-004	Capacitor, 250 pfd, Ceramic
C125	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C126	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C127	8000-00040-050	Capacitor, 100 pfd, Ceramic
C129	8000-00028-192	Capacitor, 2 pfd, Ceramic
C130	8000-00041-003	Capacitor, 200 pfd, Ceramic
C131	8000-00011-143	Capacitor, 470 mfd, 16V, Elect.
C132	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C133	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C134	8000-00041-010	Capacitor, 0.47 mfd, 50V, Elect.
C135	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C136	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C137	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C138	8000-00028-160	Capacitor, 0.01 mfd, Ceramic

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
C139	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C140	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C141	8000-00049-005	Capacitor, 500 pfd, Ceramic
C142	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C143	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C144	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C145	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C146	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C147	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C148	8000-00049-005	Capacitor, 500 pfd, Ceramic
C149	8000-00049-005	Capacitor, 500 pfd, Ceramic
C151	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C153	8000-00049-005	Capacitor, 500 pfd, Ceramic
C154	8000-00028-013	Capacitor, 0.001 mfd, Ceramic
C155	8000-00028-160	Capacitor, 0.01 mfd, Ceramic
C156	8000-00041-001	Capacitor, 10 pfd, Ceramic
C157	8000-00041-008	Capacitor, 0.047 mfd, Ceramic
C158	8000-00028-008	Capacitor, 0.01 mfd, Ceramic
C159	8000-00049-006	Capacitor, 0.022 mfd, Ceramic
C160	8000-00049-002	Capacitor, 12 pfd, Ceramic
D1	8000-00038-008	Diode, WG713
D2	8000-00038-008	Diode, WG713
D3	8000-00038-008	Diode, WG713
D4	8000-00006-281	Diode, 1S2473
D5	8000-00004-063	Diode, 1N60P
D6	8000-00006-281	Diode, 1S2473
D7	8000-00006-281	Diode, 1S2473
D8	8000-00041-015	Diode, 1S188FM
D9	8000-00038-008	Diode, WG713
D10	8000-00041-018	Diode, XZ092
D11	8000-00049-023	Diode, CH Display, SLP-1271
D12	8000-00049-021	Diode, WZ052
D13	8000-00049-020	Diode, 1SV50
D14	8000-00006-281	Diode, 1S2473
D15	8000-00049-022	Diode, TX Display SR-105D
D16	8000-00041-018	Diode, XZ092
D17	8000-00049-010	Diode, 1N4002
D18	8000-00004-063	Diode, 1N60P
D19	8000-00004-063	Diode, 1N60P
D20	8000-00004-063	Diode, 1N60P
D21	8000-00041-018	Diode, XZ092
D22	8000-00038-010	Diode, 1N60P
D23	8000-00006-281	Diode, 1S2473
D24	8000-00006-281	Diode, 1S2473
D25	8000-00038-010	Diode, 1N4002
D26	8000-00006-281	Diode, 1S2473

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
D27	8000-00048-023	Diode, ITT310
F1	8000-00006-291	Diode, Ceramic Filter, 455KHz
F2	8000-00049-024	Diode, Ant. Filter, 27MHz (with ANT. Jck)
IC	8000-00049-028	IC Socket for IC1
IC1	8000-00049-025	IC, uPD 861C
IC2	8000-00049-026	IC, Dual Transistor, 2SC1583F
IC3	8000-00049-027	IC, BA521
J1	8000-00049-024	Diode, Ant. Filter, 27 MHz (with ANT. Jack)
J2	8000-00006-088	IC, Jack, PA speaker
J3	8000-00006-088	IC, Jack, est. speaker
J4	8000-00049-029	IC, Jack, 5P (DIN)
L1	8000-00049-030	Coil, Ant.
L2	8000-00049-030	Coil, Ant.
L3	8000-00049-031	Coil, RF
L4	8000-00049-031	Coil, RF
L6	8000-00049-032	Coil, 1st IF
L7	8000-00049-033	Coil, 2nd IF
L8	8000-00049-033	Coil, 2nd IF
L9	8000-00049-033	Coil, 2nd IF
L10	8000-00049-035	Coil, SYNTH, 5.12 MHz
L11	8000-00049-034	Coil, VCO OSC
L12	8000-00049-037	Coil, Choke, 100 $\mu$ H
L13	8000-00006-151	Coil, Choke, 5.6 $\mu$ H
L14	8000-00049-045	Coil, Choke, 2.2 $\mu$ H
L15	8000-00049-045	Coil, Choke, 2.2 $\mu$
L16	8000-00049-045	Coil, Choke, 0.85 $\mu$ H
L17	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L18	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L19	8000-00049-038	Coil, L.P.F.
L20	8000-00049-038	Coil, L.P.F.
L21	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L22	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L22	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L23	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L24	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L25	8000-00049-047	Coil, SYNTH, 20.48 MHz
L26	8000-00049-047	Coil, SYNTH, 20.48 MHz
L27	8000-00049-046	Coil, SYNTH, 10.24 MHz
L28	8000-00049-039	Coil, TX OSC
L29	8000-00049-040	Coil, TX B.P.F.
L30	8000-00049-040	Coil, TX B.P.F.
L31	8000-00049-040	Coil, TX B.P.F.
L32	8000-00049-041	Coil, Pre. Driver

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
L33	8000-00049-041	Coil, Pre. Driver
L34	8000-00049-042	Coil, Driver with shield case
L35	8000-00028-143	Coil, Choke, 2.2 $\mu$ H
L36	8000-00041-033	Coil, Choke, 2.2 $\mu$ H
L37	8000-00049-043	Coil, Tank with shield case
L38	8000-00049-044	Coil, Choke, 1.25 mH
L39	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L40	8000-00041-039	Coil, Choke, 0.85 $\mu$ H
L41	8000-00049-036	Coil, Choke, 10 $\mu$ H
M1	8000-00049-048	S-RF Meter
PO1-092	8000-00049-051	LED, P.C.B.
PO1-096	8000-00049-052	P.C.B. for Rotary Switch
PO3-028	8000-00049-049	Main P.C.B.
PO3-029	8000-00049-050	Sub. P.C.B.
Q1	8000-00041-046	Transistor, 2SC1675L
Q2	8000-00041-046	Transistor, 2SC1675L
Q3	8000-00049-053	Transistor, 2SC1675M
Q4	8000-00041-046	Transistor, 2SC1675L
Q5	8000-00049-054	Transistor, 2SC1675K
Q6	8000-00041-041	Transistor, 2SC945R
Q7	8000-00041-042	Transistor, 2SC945Q
Q8	8000-00041-042	Transistor, 2SC945Q
Q9	8000-00049-062	Fet, 2SK49F
Q10	8000-00049-054	Transistor, 2SC1675K
Q11	8000-00049-055	Transistor, 2SC1740S
Q12	8000-00049-056	Transistor, 2SA826Q
Q13	8000-00049-054	Transistor, 2SC1675K
Q14	8000-00041-046	Transistor, 2SC1675L
Q15	8000-00049-057	Transistor, 2SC1740LNS
Q16	8000-00049-057	Transistor, 2SC1740LNS
Q17	8000-00049-056	Transistor, 2SA826Q
Q18	8000-00049-058	Transistor, 2SD571K
Q19	8000-00049-053	Transistor, 2SC1675M
Q20	8000-00041-046	Transistor, 2SC1675L
Q21	8000-00041-046	Transistor, 2SC1675L
Q22	8000-00041-046	Transistor, 2SC1675L
Q23	8000-00049-059	Transistor, 2SC2086
Q24	8000-00049-060	Transistor, 2SC2166
Q25	8000-00049-061	Transistor, 2SC2060Q
R44	8000-00049-066	Resistor, Semi-fixed, 50K $\Omega$
R50	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R51	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
R52	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R53	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R54	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R55	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R56	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R57	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R58	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R59	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R60	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R61	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R63	8000-00049-063	Resistor, Carbon film, 1/8W, 1.8K $\Omega$
R116	8000-00049-065	Resistor, Semi-fixed, 500 $\Omega$
R156	8000-00049-065	Resistor, Semi-fixed, 1K $\Omega$
S1	8000-00049-067	40 channel Rotary Switch
S2	8000-00041-057	PA/CB Switch
SP1	8000-00041-058	Speaker
T1	8000-00049-068	Output transformer
VR1(R37)	8000-00041-059	Variable Resistor, 50K $\Omega$ A
VR2(R43)	8000-00041-060	Variable Resistor, 30K $\Omega$ B
X1	8000-00038-011	X'tal, 10.24 MHz
X2	8000-00049-069	X'tal, 20.935 MHz

### **MISCELLANEOUS**

8000-00041-067	Knob, SQ/Vol. Controls
8000-00041-069	Felt, SQ/Vol. Controls
8000-00041-074	Cloth, cabinet prot.(blk.)
8000-00041-075	Cloth, speaker prot.(grn.)
8000-00049-070	Holder, speaker
8000-00049-071	Cloth, bezel prot.
8000-00041-080	Cloth, chip, blind, CB/PA SW.
8000-00041-087	Power cord with fuse holder
8000-00030-031	Retainer, power cord
8000-00041-106	Fuse 2A
8000-00049-072	Insulator, cabinet lower
8000-00049-073	Fiber, jack (J4)
8000-00049-074	3 $\phi$ LED holder (rubber)
8000-00049-075	Insulator, IC3
8000-00049-076	Chassis
8000-00049-077	Cabinet, upper

<b>SYMBOL #</b>	<b>PART #</b>	<b>DESCRIPTION</b>
	8000-00049-078	Cabinet, lower
	8000-00049-079	Shield case
	8000-00049-080	Radiator
	8000-00049-081	Washer, ant.
	8000-00049-082	Cloth, speaker prot.(blk.)
	8000-00049-083	Rubber cushion, cover
	8000-00049-084	Fiber, main P.C.B.
	8000-00049-085	Spring pin 1.4 $\phi$ x 14
	8000-00049-086	Bezel
	8000-00049-087	Protector, channel indicator
	8000-00049-088	Light control film
	8000-00049-089	Knob, channel selector
	8000-00049-090	Name plate
	8000-00049-091	Aluminum label, FCC type acceptance
	8000-00049-092	Label, warranty No.
	8000-00041-089	Screws, mounting bracket
	8000-00041-090	Mounting bracket
	8000-00024-204	Mic. hanger w/screws
	8000-00041-091	External speaker plug
	8000-00041-106	Fuse 2A
	8000-00049-093	Microphone complete
	8000-00049-094	Display box

### **FCC LICENSE**

The SBE-49CB TAHOE 40 transceiver is type accepted by the Federal Communications Commission for operation on any of the 40 Citizens Band channels. You are required to read and understand Part 95 of the FCC regulations, copy enclosed, prior to operation of this unit.

You must obtain a Class D station license before transmitting. If you do not have a license, one may be obtained by completing the enclosed FCC application Form 505. You may operate under a temporary permit for 60 days after Form 505 is mailed to the FCC, provided that you complete and comply with the enclosed FCC temporary Permit, Form 555-B.

**WARNING:** Transmitter section adjustments must be performed by a qualified technician holding a valid First or Second class FCC radiotelephone license.

The use of substitute components in the transmitter section of this equipment may cause a violation of FCC rules and regulations. Use only the exact replacement parts as specified in the parts list section of this instruction manual.

## LIMITED WARRANTY

SBE, Inc., warrants equipment manufactured by it to be free from defects in material or workmanship and agrees to repair or, at the option of manufacturer, to replace such equipment which, under normal use and service, develops defects arising from the fault of the manufacturer (and existing at the date of original purchase). Equipment must be returned to the manufacturer or to one of the Certified Service Stations, transportation prepaid, at the address set forth below, within one year from the date of original purchase. Unless the warranty card has been filled in and returned within ten days of original purchase, this warranty shall be void.

This warranty does not apply to equipment which (1) has been repaired or altered by anyone in any way so as, in our judgment, to injure its stability or reliability, (2) has been subject to misuse, negligence, or accident, (3) has had the serial number altered, defaced or removed, or (4) has been connected, installed, adjusted other than in accordance with our written instructions.

The foregoing is in lieu of any other express warranty. ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY, APPLICABLE TO EQUIPMENT MANUFACTURED BY SBE, INC. SHALL EXIST FOR THE LESSER OF ONE YEAR OR THE DURATION OF THE EXPRESS WARRANTY HEREIN. In no event shall SBE, Inc. be liable for incidental or consequential damages.

Some states do not allow either limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

The warranty gives you specific legal rights and you may also have other rights which vary from state to state.

SBE, Inc., neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with this equipment.

SBE, INC.  
220 Airport Boulevard  
Watsonville, California 95076  
(408) 722-4177

We recommend that you record the following information at the time you purchase your TAHOE 40. If your unit becomes damaged or lost, this information may then be supplied to your insurance company and/or the local police department.

1. Model Number \_\_\_\_\_
2. Serial Number\* \_\_\_\_\_
3. Date Purchased \_\_\_\_\_
4. Dealer's Name \_\_\_\_\_
5. City \_\_\_\_\_
6. State \_\_\_\_\_

\*Permanent number on case of radio

