



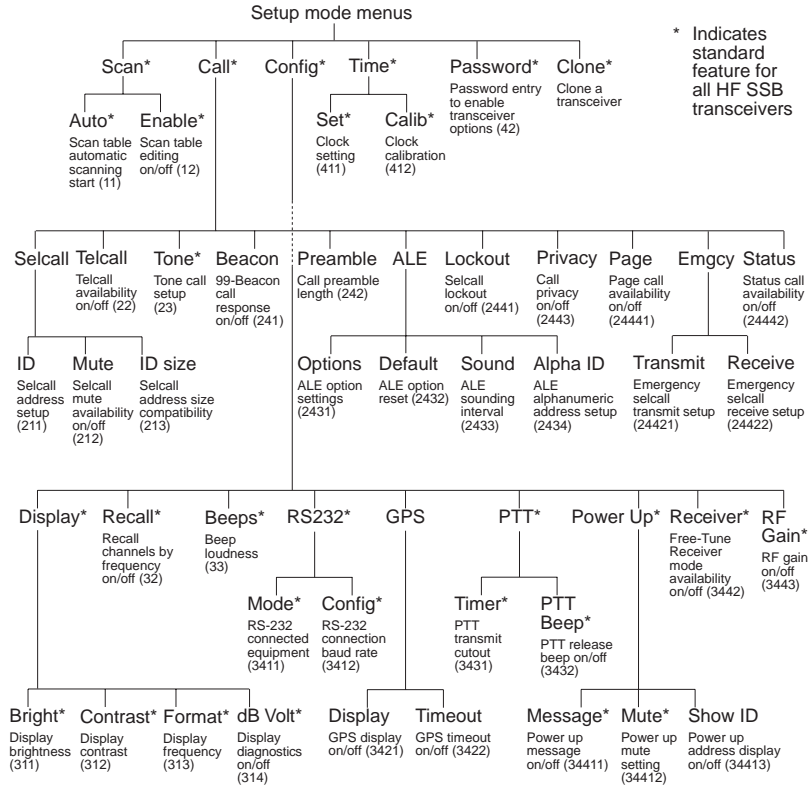
Addendum

The following sections are added to the 9390 Marine Transceiver Reference Manual, Codan part number 15-04069 Issue 1, May 1996.

Setup mode menu

The following menu options have been added to the menu tree:

- Alpha ID—ALE alphanumeric ID setup
- dB Volt—Display diagnostics on/off
- Status—Status call availability on/off.



ALE alphanumeric ID setup

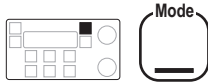
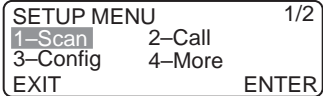
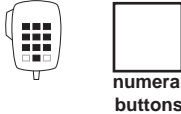
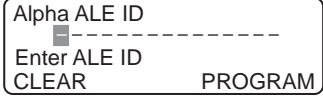
Setup code 2434

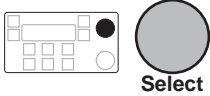
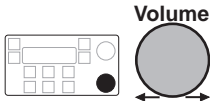

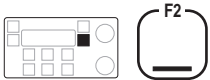
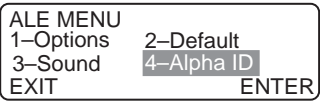
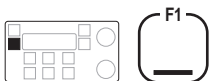
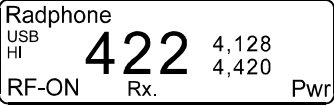
This procedure is used to set the alphanumeric ID of your transceiver.

This ID is needed in ALE (Automatic Link Establishment) calls that use alphanumeric station IDs. An alphanumeric ID is either a 7–15 digit number or an ID containing one or more of the characters ‘A–Z’, ‘@’ and ‘?’.

Your alphanumeric ID is valid for all channels and ALE scan tables.

To set your alphanumeric ID:

Action	Notes
<p>1. Repeatedly press</p>  <p>until you see the display for Setup mode.</p>	<p>The display shows:</p> 
<p>2. Enter 2434</p> 	<p>Example of the display:</p> 

Action	Notes
<p>3. To enter your alphanumeric ID, select each character using</p>  <p>and move between characters using</p> 	<p>Enter up to 15 '0-9', 'A-Z', '@' and '?' characters. Any space is automatically replaced by '0'.</p> <p>To clear an existing ID, press</p> 
<p>4. To save your change, press</p> 	<p>The display shows:</p> 
<p>5. To return to Channel mode, press three times</p> 	<p>Example of the display:</p> 



Display diagnostics on/off Setup code 314 (standard procedure)

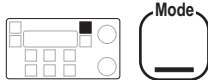
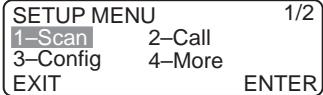
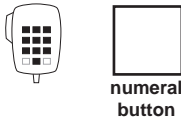
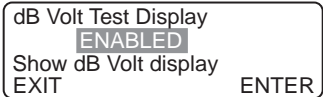

This procedure is used to switch on or off the display of diagnostic information about your transceiver.

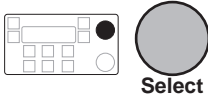

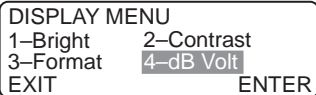
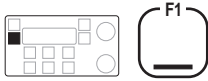
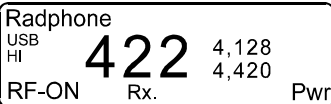
Diagnostic information is useful for service technicians who want to monitor transceiver operation. The information is displayed on the top line of the screen in Channel mode. It is updated every 250 milliseconds.

The information consists of:

- while receiving—receive signal strength (μV and $\text{dB } \mu\text{V}$) and battery voltage
- while tuning—the SWR and battery voltage.

To switch on or off the display of diagnostic information:

Action	Notes
<p>1. Repeatedly press</p>  <p>until you see the display for Setup mode.</p>	<p>The display shows:</p> 
<p>2. Enter 314</p> 	<p>The display shows:</p>  <p>or</p> 

Action	Notes
<p>3. To switch between ENABLED and DISABLED, rotate</p> 	<p>Select:</p> <ul style="list-style-type: none"> • ENABLED if you want to display diagnostic information • DISABLED if you do not want to display diagnostic information.
<p>4. To save your change, press</p> 	<p>The display shows:</p> 
<p>5. To return to Channel mode, press three times</p> 	<p>Example of the display:</p> 

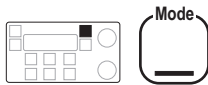
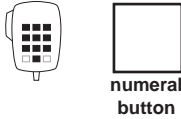


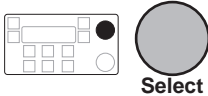
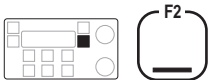
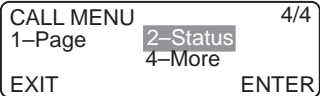
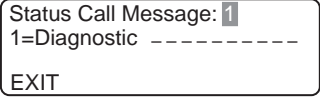

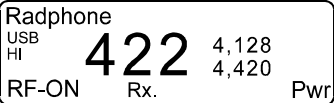
Status call availability on/off

Setup code 24442

This procedure is used to switch on or off the ability to send the three types of status call—remote diagnostics call, remote config call and user status call. It does not affect the ability to respond to incoming status calls.

To switch on or off the ability to send status calls:

Action	Notes
<p>1. Repeatedly press</p>  <p>until you see the display for Setup mode.</p>	<p>The display shows:</p> <div style="border: 1px solid black; padding: 5px;"> <p>SETUP MENU 1/2</p> <p>1-Scan 2-Call</p> <p>3-Config 4-More</p> <p>EXIT ENTER</p> </div>
<p>2. Enter 24442</p> 	<p>The display shows:</p> <div style="border: 1px solid black; padding: 5px;"> <p>Status Call Setup</p> <p>ENABLED</p> <p>Status call enabled</p> <p>EXIT ENTER</p> </div> <p>or</p> <div style="border: 1px solid black; padding: 5px;"> <p>Status Call Setup</p> <p>DISABLED</p> <p>Status call disabled</p> <p>EXIT ENTER</p> </div>

Action	Notes
<p>3. To switch between ENABLED and DISABLED, rotate</p> 	<p>Select:</p> <ul style="list-style-type: none"> • ENABLED to make status calls available • DISABLED to prevent status calls being made.
<p>4. To save your change, press</p> 	<p>The display shows:</p>  <p>or</p> 
<p>5. To return to Channel mode, repeatedly press</p>  <p>until you see the display for Channel mode.</p>	<p>Example of the display:</p> 



Antenna band or channel control

There have been changes to the Band sets.

You can now select:

- CHANNEL if you want the transceiver to control equipment according to the single frequency of the current channel
- BAND SET 1 or BAND SET 2 if you want the transceiver to control equipment according to the operating frequency band of the supporting equipment (for example, add-on high power linear amplifiers).

The following table provides the switching frequencies for the outputs. For further details, contact your Codan agent.

Outputs			Bandset 1	Bandset 2
4	2	1	frequency ranges (MHz)	frequency ranges (MHz)
L	L	L		< 2
L	L	H	<2	2–2.99999
L	H	L	2–2.99999	3–3.99999
L	H	H	3–4.99999	4–5.99999
H	L	L	5–7.99999	6–8.99999
H	L	H	8–12.99999	9–12.99999
H	H	L	13–19.99999	13–19.99999
H	H	H	20–30	20–30



Grounding—RF earth

This information may be useful when installing a marine transceiver in your vessel.

RF shielding of the control head cable

The control head interface cable, supplied with the control head, is shielded. Some installations require that the shield be connected to protect against RF interference. The RF interference is caused by RF energy radiating into the control head cable. RF interference problems only occur whilst the transceiver is transmitting mainly on lower frequencies. It may be frequency conscious.

Symptoms of RF interference include:

- distorted audio transmission
- the control head ceases to function
- the control head displays unrecognisable information

DC isolation



Care must be taken to prevent undesired DC paths in vessels of metallic construction.

The transceiver case is connected to the battery negative. DC isolation from the vessel is provided by the mounting cradle. The control head case is internally DC isolated from the battery negative and requires no further DC isolation from the vessel.

Therefore, if the drain wire is connected to both the transceiver case *and* the 9391 case, a direct DC path exists between the battery negative and the chassis.

Where DC isolation is required, a capacitor must be fitted in series with the drain wire. The value of the capacitor should

be in the vicinity of 33 to 100 nF, with a minimum working voltage of 50 V.

Shielding

The effectiveness of shielding in marine vessels varies depending upon the materials used in vessel construction. Therefore, Codan can only offer possible shielding solutions to the RF interference that may be experienced.

Any or all of the following configurations should be tried initially if RF interference is experienced.

Shielding at the transceiver

To shield at the transceiver:

- Strip sufficient insulation from the drain wire and connect it to the ground screw on the rear of the transceiver.

Do not connect the drain wire at the control head.

- If this works, cut the drain wire as short as possible, ensuring that it cannot short out at the non-terminated end.

Shielding at the control head

To shield at the control head:

- Strip sufficient insulation from the drain wire and connect it to the mounting screw on the bracket of the control head.
- If this works, cut the drain wire as short as possible, ensuring that it cannot short out at the non-terminated end.

Shielding at both the transceiver and the control head

To shield at both the transceiver and the control head:

- Strip sufficient insulation from the drain wire at both ends and connect the drain wire at both the transceiver and the control head.



Observe DC isolation considerations as noted above.

If none of the above measures work, contact your nearest Codan office.