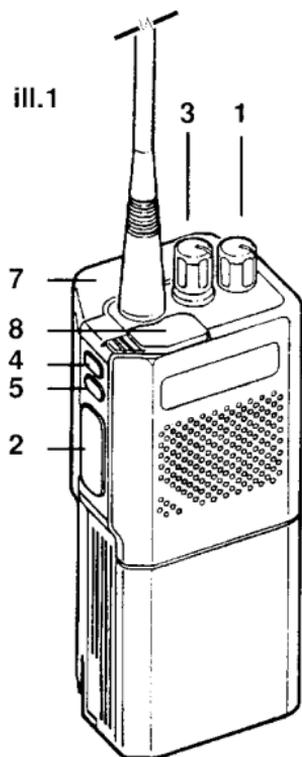


Radius™

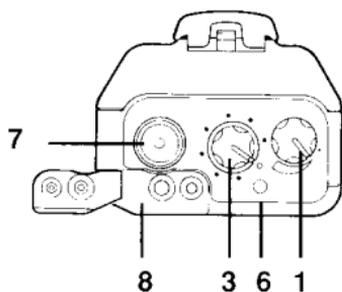
GP300



ill.1



ill.2

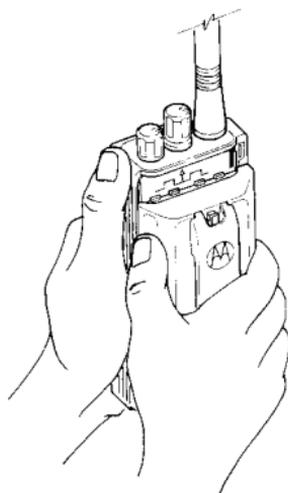


Radio without keypad
Radio ohne Tastatur
Poste sans clavier
Radio senza tastiera
Radioteléfono sin teclado
Radio uden tastatur
Radio utan knappsats
Radio uten tastatur

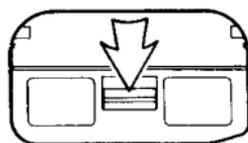
ill.3



ill.4



ill.5



GP300 USER GUIDE

Page:

Safety Information	2
General Radio Care	2
Fitting / Removing Battery / Belt Clip	3
Control Facilities	4
Audio Signals	5
Operation	5
Radio On / Off	5
Channel Selection	5
Channels without Selective Call Functions ...	6
Communication Procedure	6
Channels with Selective Call Functions ...	6
Outgoing Calls	6
Incoming Calls	6
Call Termination	6
Keypad Version	6
Address Selection	7
DTMF Operation	7
Scan Operation	7
Chargers	8
Charger Indicator Lights	8
Warning	8
Audio Accessories	9
Fitting the Audio Accessory	9
VOX Headset	9
Intrinsic Safety	9
Computer Software Copyrights	10

SAFETY INFORMATION

During normal use, this radio will subject you to radio energy substantially below the level where any kind of harm is reported.

- **DO NOT** hold the radio with the antenna very close to, or touching, exposed parts of the body, especially face or eyes, while transmitting. The radio will perform best, if the microphone is 5 to 8 cm away from the lips and the radio is vertical.



- **DO NOT** hold the transmit (PTT) button in when not actually desiring to transmit.
- **DO NOT** allow children to play with any radio equipment containing a transmitter.
- **DO NOT** operate a transmitter near unshielded electrical blasting caps or in an explosive atmosphere unless using a radio approved for the environment.
- **DO NOT** operate the radio with a headset or other audio accessories at high volume levels. (Ear specialists advise against high volume operation).

GENERAL RADIO CARE

- Avoid physical abuse of the radio such as carrying it by the antenna.
- Wipe the battery contacts with a lint-free cloth to remove dirt, grease, or other ma-

terial which may prevent good electrical connections.

- The accessory connector is fitted with a protective cap which should be left in place when the connector is not in use.
- Clean the radio exterior using a cloth moistened with water, mild dishwashing liquid or isopropyl alcohol.

Caution

The use of chemicals such as detergents, alcohol (except isopropyl), aerosol sprays, and/or petroleum products may be harmful to and damage the radio housing.

- The use of non approved radio accessories may damage the radio and invalidate the warranty.

FITTING / REMOVING BATTERY / BELT CLIP

See illustrations 4 & 5 on flaps.

In order to fit the **battery**, slide it into the control rails about 1/2 an inch (2 cm) from the top of the radio and slide it towards the top until the battery latch has engaged.

Before removing the battery, turn off the radio. Press the battery latch towards the front of the radio, slide the battery down about 1/2 an inch (2 cm) and lift it away from the radio.

Note: The battery must be charged before initial use.

In order to fit the **belt clip**, (see ill. 3) slide it into the mounting rails on the back of the radio and press it downwards until it latches into place.

To remove the belt clip, lift the release tab by inserting a key or coin between the release tab and the back of the radio. Press the belt clip upwards until it is completely disengaged from the radio.

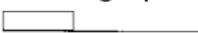
CONTROL FACILITIES

Numbers refer to illustrations on flaps.

- 1. On-Off/Volume Control**
Turns the radio on/off and adjusts the loud-speaker volume.
- 2. Transmit Button (PTT)**
Push to talk, release to listen.
- 3. Channel selector**
Selects the operating channel.
- 4. Monitor Button**
Press once to set to carrier squelch mode, twice to open squelch. Prolonged press will permanently set the radio to the chosen mode.
- 5. Call Button**
Push this button to transmit your call.
- 6. Three-Colour Indicator**
Red, continuous: Radio transmits.
Red, flashing:
 During transmit: Low battery
 During receive: Channel busy
Green, flashing: Scanning
Yellow,
 Double flashing: Incoming individual call
 Single flashing: Incoming group call
 Flashing on turn on: Code plug error
Green and red, alternating: Hardware error
- 7. Antenna Connector**
- 8. Accessory Connector**
Connector for external headset or remote speaker/microphone. Must be covered by attached cap when not in use.
- 9. Keypad** (see fold-out flap at the back)
Used for manual selection of call addresses.
DTMF  and **Scanning** . For further information on DTMF and Scanning contact your authorized Motorola Radius dealer).

10. Display (see also page 11)

AUDIO SIGNALS

□ = High pitched tone	■ = low pitched tone
	Radio self-test OK
	Incoming individual call
	Incoming group call
	Speech limitation warning
	Keypad entry not accepted.
	Invalid operation. Tone continues until valid operation /
	Hardware error
	Keypad entry accepted /
	Permanent monitor
	Low battery warning
	Priority channel (scanning)
	Start scanning
	Scanned onto current channel /
	Channel selector moved to last scanned channel
	Call revert (Priority Call)
	Entry ... Exit

OPERATION

Since standard operation may be changed by programming, the way your radio operates may differ slightly from this description. If in doubt, consult your authorised Motorola Radius dealer.

RADIO ON/OFF

Turn the radio on by rotating the volume control (1) clockwise. A power up tone is heard to indicate that the self-test has been completed successfully.

The radio is turned off by rotating the volume control anticlockwise past the click stop.

CHANNEL SELECTION

Select the channel by turning the channel select switch. Selecting a channel which is not programmed in your radio, causes an invalid operation tone.

CHANNELS WITHOUT SELECTIVE CALL FUNCTIONS

Prior to transmission always make sure that the channel is free. When occupied the indicator (6) will be flashing red.

COMMUNICATION PROCEDURE

Press the transmit button (2) while talking, release while listening. If the warning tone for speech limitation is heard, the transmission will shortly be cut off. The radio may be programmed to inhibit retransmission within a preset time.

CHANNELS WITH SELECTIVE CALL FUNCTIONS

Outgoing Calls

Prior to transmission always make sure that the channel is free. If the indicator (6) flashes red the channel is busy. If in doubt press the monitor button (4) to listen to the channel. Push the call button (5) to transmit your call. You will hear the transmission of the call sequence.

Incoming Calls

The incoming call signal will sound and the indicator (6) will start flashing yellow - double flashing for individual calls, single flashing for group calls.

Call Termination

After your call has been completed the radio will automatically revert to coded squelch.

KEYPAD VERSION

The following functions require a radio with a keypad. (See illustration 5 on the back flap)

Address Selection

Other radios in your system can be called individually using the keypad. The radio number is called the address.

Enter the required address as follows:

Press  or  (depending on programming) to initiate the entry.

Pressing the keypad buttons will cause a high pitch keypad tone (entry accepted) or a low pitch alert tone (entry not accepted).

Invalid entry may be caused by the following:

- You are on a channel without address selection.

- You have already entered all digits in the address.

- You have entered a digit not accepted on this position.

If an error tone occurs check the channel and press  or  to restart the address entry. On keypad radios up to three digits of the address will be shown on the display.

Pressing the  button or the call button initiates the call to the selected address. In case of an error tone you have not entered the correct number of digits or you are on an invalid channel.

Scan Operation

There are a number of different types of scan on the radio. Please contact your authorised Motorola Radius dealer for further information.

DTMF Operation

DTMF operation depends on your system. Please contact your authorised Motorola Radius dealer for further information.

CHARGERS

Insert the radio with a battery or a battery alone into the charger. Charging times are as follows:

Rapid charge:

Approximately 30-60 minutes depending on battery size

Standard charge:

Approximately 16 hours

Note: The radio may be turned on while in the charger. It will receive normally, but the charging time will be prolonged.

Charger Indicator Lights

Red: Indicates battery charging

Flashing red: The battery is in the trickle charge mode until the voltage/temperature is within the permitted rapid charge range (rapid chargers only).

Green: Charging complete (rapid chargers only).

Warning

- Do not charge battery if the temperature is below 10°C or above 40°C as it will reduce the lifetime of the battery.
- Do not use the charger if it is wet or in any way damaged. Follow the normal safety rules for mains connected electrical equipment.
- The batteries contain cadmium, a toxic metal; dispose of old batteries in an appropriate manner.
- Do not discard batteries in fire: They may explode.

AUDIO ACCESSORIES

Turn the radio off before connecting any audio accessories. The radio loudspeaker and / or internal microphone will automatically be disabled when the radio is turned on.

Fitting the Audio Accessory

- 1 Lift the cover of the accessory connector (8) on the top of the radio.
- 2 Firmly press the accessory plug(s) into the accessory connector on the radio.

VOX Headset

For hands-free operation of the radio. The radio automatically transmits when the user speaks into the microphone.

Change to manual operation of the radio by pressing the transmit button (2) at any time during the call.

To change back to hands-free operation: turn the radio off / on or change channel.

INTRINSIC SAFETY

Warning: Substitution of components may impair the intrinsic safety of the radio.

Service must only be carried out by a Motorola Radius approved I. S. trained dealer

Refer to the radio label for intrinsic safety ratings and required batteries. Only the accessories and antennas listed below may be used on approved radios:

Intrinsic Safety continued

Accessories

HMN9725A	Remote Speaker/Microphone
HMN9752A	Earpiece with volume control
HMN9727A	Earpiece without volume control
HMN9787A	Light weight headset w/ boom mic
HMN9754A	2 piece surveillance microphone

Antennas

HAD9337A	146-174 MHz VHF	helical
HAD9742A	136-162 MHz VHF	stubby
HAD9743A	162 -174 MHz VHF	stubby
HAD9728A	Tunable antenna kit (VHF)	
NAE6483A	403-470 MHz UHF	whip
NAE6521A	400-440 MHz UHF	stubby
NAE6522A	438-470 MHz UHF	stubby

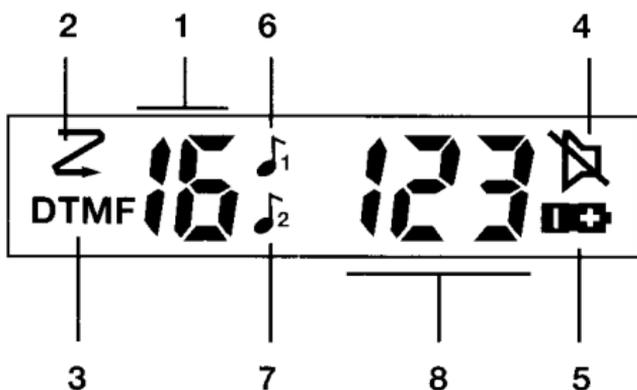
Batteries

HNN9808A	600 mAh Factory Mutual Intrinsically Safe slimline battery
HNN9701A	1200 mAh Factory Mutual Intrinsically Safe high capacity battery

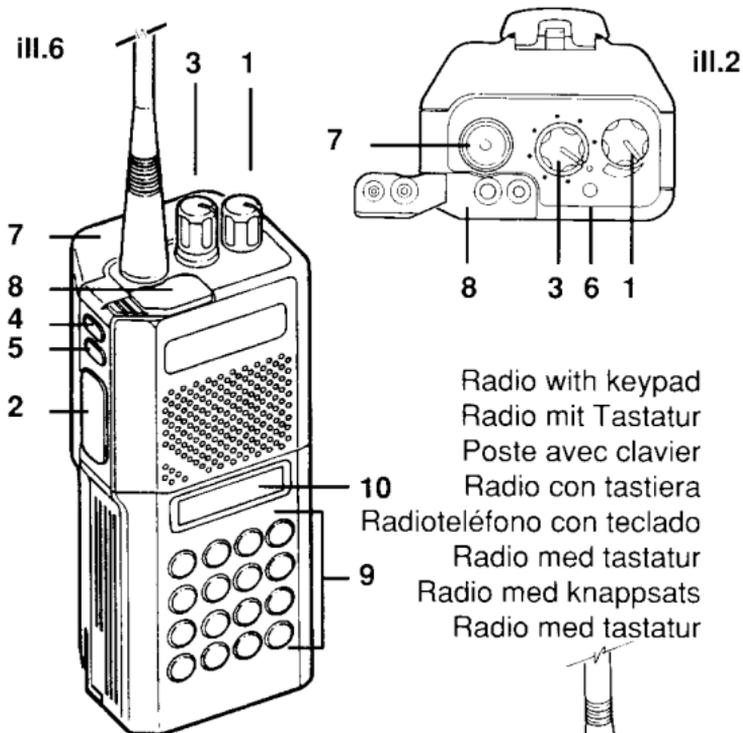
COMPUTER SOFTWARE COPYRIGHTS

The products described in this manual may include copyrighted computer programmes stored in semiconductor memories or other media. Laws in the United States and other countries preserve for Motorola/Europe and Motorola Inc. certain exclusive rights for copyrighted computer programmes, including the right to copy or reproduce in any form the copyrighted computer programme. Accordingly, any copyrighted computer programmes contained in the products described in this manual may not be copied or reproduced in any manner without the express written permission of the holders of the rights. Furthermore, the purchase of these products shall not be deemed to grant either directly or by implication, estoppel, or otherwise, any licence under the copyrights, patents, or patent applications of the holders of the rights, except for the normal non-exclusive royalty free licence to use that arises by operation of law in the sale of the product.

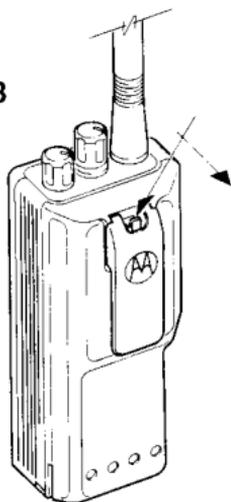
DISPLAY



1. **Channel number**
2. **Scan** icon
Flashing and no channel number displayed:
Scanning
Solid and channel number displayed:
Landed channel
3. **DTMF** icon
On: In DTMF mode
Off: In standard mode
4. **Squelch** icon
On: Select 5 and / or PL squelch
Off: Carrier / Open squelch
5. **Low Battery** icon
Solid: Battery OK
Flashing: Low battery
6. **Call 1** icon
Indicates that Call 1 sequence is selected.
(Only displayed if Call 1 is selected)
7. **Call 2** icon
8. **Variable digits**
Up to the last three digits of the selected address will be displayed.



ill.3



ill.4

