

# PT617A ( VHF ) PT618A ( UHF )

Mobilfunkgerät  
Mobile Transceiver



Bedienungsanleitung  
Manual

Dear customer,

The following instructions will help to prolonge your radios life.

Do not expose the transceiver for a long period to direct sunlight, nor place the transceiver close to heating appliances.

Do not place the transceiver in excessively dusty areas, humid areas, or on unstable surface.

If an abnormal odor or smoke is detected, immediately turn the power off.

Do not touch the power plug with wet hands.

Do not modify this transceiver for any reason.

Refer service to qualified technician only.

The use of commercial frequencies requires a licence and charges apply.

We recommend you to get your radio programmed by an authorized TEAM dealer only. The programming has to follow the regulations and rules in general and the restrictions of the licence.

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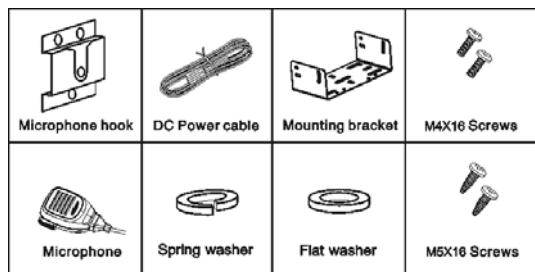
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## 1. Unpacking and Checking Accessories

Please take out the transceiver from the packing box carefully. You are advised to check the supplied accessories according to the following list, before you throw away the packing case. If you find something is lost or damaged in transportation, please contact the dealer immediately.

### SUPPLIED ACCESSORIES

ACCESSORIES	QUANTITY
Mounting bracket	1
DC Power cable	1
Microphone	1
M5X16 Self-taping screw	4
M4X16 Self-taping screw	3
Spring washer	4
Flat washer	4
Microphone hook	1
Instruction Manual	1
Guarantee card	1



## 2 Preparation

### 2.1 POWER CABLE CONNECTION

Check if there is a hole for power cable in the adiabatic panel. If there is no hole, drill one in it and fix a rubber hole ring in the hole. Thread the two power cables through the hole of the adiabatic panel from the cabinet into the engine chamber. Connect the red wire with the battery positive terminal + , and the black wire with the negative - . Roll up the surplus wire and stick it at a place. Notice: Make sure the wires are loose enough for the convenience of repairing the radio in the connection state.

### 2.2 Radio Installation

Warning:

To ensure the passengers' safety during driving and avoid radio's looseness and fall-off when bumping, please fix the radio with the mounting bracket.

Mark the position of the mounting bracket and drill holes on the instrument panel. And then fix the mounting bracket, the flat washer and the spring washer with 4 M5 16 tapping screws. The radio should be fixed at a place convenient for operation, and sufficient space should be reserved for wire connection.

Screw out the 4 M4 16 screws, flat washer and spring washer from the two sides of the radio. Slide the radio into the mounting bracket and fixed it with the 4 M4 16 screws screwed out just now.

Connect the antenna and power cable with the radio.

Fix the microphone hook at a convenient place with 3 M4 16 screws. The microphone and its wire should be fixed at a place not affecting safe driving.

Plug the microphone connector into the jack in the radio's front panel and hang the microphone on the microphone hook.

Notice:

When change the fuse of the DC power cable, make sure to use a fuse of the same spec. A fuse of higher capacity is prohibited.

### 2.3 Installation of an antenna

The antenna is one of the most important parts of the equipment. The type of antenna and its location has a great effect on the range of operation. Please consider the following criteria for selecting the best location and installation of your antenna:

- > Make sure that the antenna is designed for radio operation on the designated frequency range.
- > The location of the antenna should be as high as possible without any obstacles nearby.
- > The aerial cable should not be damaged and the plugs should be properly connected.
- > Make sure that the antenna cable is not bent too strong.
- > The bigger the mechanical size of the antenna, the higher the range of operation.

When you install a mobile antenna please note the following advice:

- > The antenna should be fixed in the centre of a bigger part of the coachwork.
- > The mobile antenna coil should have the closest possible contact with a conducting metallic surface of the bodywork of the car.

There are also some other possibilities to fix the antenna onto the car without the necessity to drill a hole into the bodywork of your car, for example mounting the antenna onto the trunkor using an antenna with a magnetic mount or a windscreen antenna.

- > Please do not mount the antenna nearby a radio or TV antenna to prevent interference of radio or TV reception.
- > All connected cables including the antenna cable must not exceed a length of 3 m.

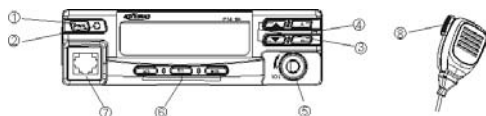
## 2.4 Aerial Connection

Before pressing the transmit key, a suitable aerial must be connected. The BNC-plug of the aerial cable has to be connected to the socket on the rear panel. Make sure, that all plugs are firmly tightened and properly soldered. Unsatisfactory connections can damage the radio and will reduce the range of operation.

The antenna should be matched with the radio, otherwise a part of the transmit power will be reflected at the antenna and will not be radiated. This causes also a drop in the range of operation.

## 3. Getting Acquainted

### 3.1 Front Panel and Microphone



1. PWR-Power switch

Press and hold this switch about 2 seconds, then power turn on/off.

2. LED indicator

Be red while transmitting and green while receiving a signal.

3. ▼ / ▲ keys

Press these keys to select the operation channel, with FUN key to set the other functions. (See page 8 for additional information on this function.)

4. Channel A / B

If have been set up channel A or B, press one of the key to choose channel A or B, with FUN key to set the other functions. (See page 8 for additional information on this function.)

5. Volume control

Use this control to adjust the volume from the speaker. Clockwise rotation increases the volume; counterclockwise rotation decrease the volume.

6. SCAN, FUN and MON Keys

SCAN key, when more than two channels are added to the scan list, use this key to start up scan function. (Reference to channel scan), with FUN key to set the other functions. (See page 8 for additional information on this function.)

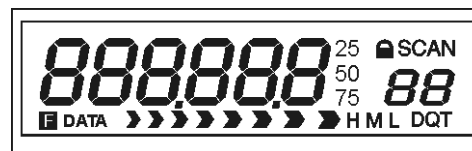
7. Jack for microphone or programming cable connector

This jack is used for handset microphone, and it is used for programming cable connector too.

8. PTT key (on microphone)

Press PTT key, then enter transmission state release this key, then return to standby mode.

## 3.2 Display



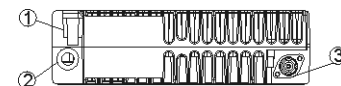
- ( 888.88.8 ) Indicate the current channel frequency or channel No.
- ( A ) Displays that current channel has been added to the scanning list.
- ( P ) Displays Priority channel.
- ( DQT ) Active CTCSS Code
- ( QT ) Active DQT Code
- ( SCAN ) Active Scan Function
- ( >>>>>> ) RSSI ( Receive-Signal-Strength-Indicator )
- ( H M L ) Indicates power level ( high, medium or low )
- ( F ) Indicates secondary function mode.
- ( lock ) Indicates key lock.
- ( PC ) Indicates data transmission
- ( 25 / 50 / 75 ) Frequencies with 5 digits, will specify their last two digits with one of the numbers.

### Notice:

Any key action will light the LCD for about 10 seconds. If the keys have no action in 10 seconds, the background light of LCD will be turned off automatically.

## 3.3 Rear Panel

- 1 - Jack for power cable plug
- 2 - Jack for external speaker
- 3 - Jack for antenna



## 4 The Secondary Functions

Note: the secondary function can be prohibited by dealer.

### 4.1 Transmission Power Selection

You may select high RF power, medium RF power or low RF power conveniently. Press FUN key, the F indicator will light, then press the ▼ key to select transmission power, e.g. L

Press the ▲ / ▼ keys to select RF power you want. After the transmission power have been selected, H, M or L indicator will light on LCD. It means that current transmission power is high, medium or low respectively. Press FUN key to confirm it. If you do not want to change the transmission power, press the B key to cancel the current setting.

## 4.2 Setting the Squelch Level

You may select the proper squelch level, and there are 10 levels (0~9) selectable in all. If level 0 is set, the squelch will be turn off completely. Press FUN key, the F indicator will light, then press the MON key to set squelch level. The current squelch level will be displayed on LCD, e.g. **Sq 0**.

Press ▼ / ▲ keys to select the proper squelch level. The current squelch level will be displayed on LCD, e.g. **Slq 9**.

After you have selected the proper squelch level, press FUN key to confirm. But if you want to cancel the current setting, please press B key to exit.

## 4.3 Setting Time-Out-Timer (TOT)

The transceiver has a time-out-timer function to prevent possible problem caused by continuous transmission. You may set the proper time-out interval for transmitting.

The time-out interval is 30s, 60s, 90s, 180s, 900s or OFF (no limit). Press FUN key, indicator will light, then press SCN key to set time-out-timer. The current time-out interval will be displayed on LCD, e.g. **to 90**.

Press ▼ / ▲ keys to select your desired time-out interval. LCD displays the selectable time-out interval, e.g. **tot of**.

Then press FUN key to confirm. But if you want to cancel the current setting, please press B key to exit.

## 5. BASIC OPERATIONS

### 5.1 Turn the Power Switch On Or Off

Press and hold the PWR key about 2 seconds to turn the power on or off. When turn the power on, all indicators will be displayed on LCD for 1 second.

After a long beep tone, it goes in working mode. If there is no channel was stored, it displays as **no chn**. and LED lights red.

### 5.2 Adjusting the Volume

Use this control to adjust the volume from the speaker. Clockwise rotation increases the volume; counter-clockwise rotation reduces the volume.

When adjusting the volume, you may press MON key to monitor the background noise.

## 5.3 Transmitting Operation

Make sure the selected channel is free before transmitting. You may press the PTT key and speak to the microphone after the LED lights red, release the PTT key to receive.

## 5.4 Receiving Operation

The dealer may have set CTCSS/DCS for the transceiver.

If you are using the channel with CTCSS/DCS, you will not receive (decode, or open squelch) unless the selected encode tone is received. If you are using the channel without CTCSS/DCS, you can receive the signals from any transceiver.

## 5.5 Change Channel

Press the ▼ / ▲ key to increase or decrease the channel number consequently. The channel number will be displayed on the LCD.

If you press and hold the ▼ / ▲ key over 1 second, the channel number will increase or decrease continuously, and be displayed on LCD. Press any key to stop.

If the selected channel has been set as priority channel, the P indicator will light on LCD. If the selected channel has been added in the scan list, the A indicator will light on LCD. If the selected channel has been set CTCSS/DCS, the QT or DQT indicator will light on the LCD.

## 6. Scan Options

Scan function is very effective in monitoring signal on the programmable channel. The transceiver will scan all channels while scanning, which have been added in the scan list. This function may be prohibited by local dealer.

Notice:

Scan function is deactivated until more than two channels have been added in the scan list.

### 6.1 Start Scanning

Press the SCN key to enter the scan state. Start scanning from the current channel, increase by the channel number. The SCN indicator and icon will light on the LCD.

### 6.2 Priority Channel

If the transceiver has been set priority channel by dealer, it will be monitoring the priority channel while receiving other channel signals. When having received the priority channel signals, the P will be displayed on the LCD.

### 6.3 End Scanning

Press the SCAN key to end scanning during the scan. It will stop on the channel that receives a signal, or the channel before scanning.

## 6.4 Time-Control

The radio will restart the scan after pausing for some time while receiving signal. The pausing time can be preset from 0.5 to 5 seconds.

## 6.5 Carrier Wave Control

The radio will pause the scan after receiving signals and will restart scan after the signal disappears.

## 6.6 Calling Back

The working channel of the radio will return to the following channels automatically by pressing PTT during the scan. The dealer can select one among the following four ways.

- 1) Selected channel:  
When pressing PTT during the scan, the radio will always transmit from the first channel of the scanning list.
- 2) Selected channel or currently working channel:  
If pressing PTT during scanning, the radio will transmit from the first channel in the scanning list. If pressing PTT during the scan pausing, the radio will transmit from current channel.
- 3) Prior channel:  
The radio will always send signals from the prior channel in the scan list when pressing PTT.
- 4) Prior channel or currently working channel:  
When the radio is scanning, it will send signals from the prior channel in the scanning list by pressing PTT. During the pause of scan, the radio will transmit from current channel by pressing PTT.

## 7 OTHER OPERATIONS

### 7.1 Time-Out -Timer (TOT)

Caused by continuous transmission. If you transmit continuously over the preset time, the unit will stop the transmitting and return to standby mode.

#### Time Out Timer

The purpose of the Time -out- timer is to prevent any single person from using a channel to transmit for an extended period of the time. If you continuously transmit longer than the time limit preset by the distributor, the radio will stop transmitting and a tone will be heard. To stop the tone, release the PTT button. You can press the PTT again to resume transmitting.

#### TOT Pre-Alert

The TOT Pre-Alert function notifies that the programmed time is expired. This should be set less than TOT value. Range: Off /1 to 10s (1s steps) Default: Off

#### TOT Rekey Time

TOT Rekey-Time sets the penalty time in which the radio can not be rekeyed for transmitting after the Time-Out-Timer setting is exceeded.

Range: Off /1 to 60s (1s steps)Default: Off

### TOT Reset Time

TOT Reset Time sets the minimum wait time allowed between transmissions that will reset the Time-Out -Timer. When TOT Reset Time is set, it causes the TOT continue even after PTT is released unless the TOT Reset Timer has expired.

Range: Off /1 to 15s (1s steps)Default: Off

### 7.2 Busy Channel Lockout (BCL)

The function of busy channel lockout (BCL) is turned ON or OFF by the local dealer, also can be set by user in self-programming mode.

When the BCL function is on, it can prevent other transceivers from interfering with your transceiver by using the same frequency. When press the PTT key, a beep alarm will ring until the PTT key is released and it will go back to stand-by mode, if the channel is busy.

### 7.3 Monitor

When there is no signal, the squelch circuit will mute the speaker automatically and you will not hear the background noise. To inactivate the squelch circuit, press the **MON** key, which is very useful when you adjust volume or want to receive weak signals. When pressing the **MON** key, the status indicator lights green and the radio is in the state of monitoring.

### 7.4 Clear Tail Tone

When using the channel set with CTCSS/DCS, the after sound in talking ending can be eliminated.

### 7.5 CTCSS/DCS

Your dealer can program CTCSS/DCS signaling on the radio channels. CTCSS/DCS allows you to ignore (not hear) calls from other parties who are using the same channel.

The channel preset with CTCSS/DCS signaling can activate the squelch only when it receives the correct CTCSS/DCS signaling. Likewise, only the radios whose CTCSS/DCS is the same as yours can hear the signals you transmit.

Using a CTCSS/DCS channel does not mean your calls are private. If other parties' CTCSS/DCS is identical with yours, they can hear your calls.

### 7.6 DTMF

The dealer can activate or inactivate this function by programming.

#### 1) Receiving Signals

Only when the radio receives the programmed DTMF code (3~10 digits), the squelch will be activated. Usually every channel has unique code. Calls from the radios that are not programmed with matching codes will not be heard.

The dealer can also program group codes on the radio.



When receiving the signals with proper DTMF code, the squelch will be activated, and you can receive the call.

The LED flashes orange.

The dealer can program that squelch turns off after a certain time and LED turns dim.

If DTMF auto reply has been programmed, the calling radio will receive confirming signals.

If DTMF signal reminder has been programmed, it rings when receiving the proper code.

## 2) Transmitting Signals

You can transmit the preset DTMF PTT ID code by pressing the PTT button. Or you can also transmit the DTMF code by pressing the function button CALLA or CALLB if the DTMF signaling has been programmed on the channel.

## 7.7 2-Tone Signaling

The dealer can activate or inactivate this function by programming.

### 1) Receiving Signals:

When receiving the proper 2-Tone signaling, the squelch will be activated, and you can receive the call. The LED flashes orange.

To manually mute the speaker, press the monitor key or the side button set as instantaneous monitor.

The dealer can program that the squelch turns half active certain time after the signal disappears.

If auto reply has been set, the calling radio will receive confirming signals.

If signal reminder has been set, the warning tone sounds when the radio receives the proper 2-Tone code.

### 2) Transmitting Signals:

If the 2-Tone signaling has been set on the channel, you can transmit the 2-Tone signals by pressing the side button CALLA or CALLB, which can be set by the dealer.

After transmitting the signal, indicator flashes orange and you can talk to other radios until the effective time expires and the indicator turns dim.

## 7.8 5-Tone Signaling

The dealer can activate or inactivate this function by programming.

5-Tone Signaling has 7 coding formats: CCIR, ZVEI1, ZVEI2, DZVEI, EEA, PZVEI, and EIA.

### 1) Receiving Signals:

When receiving the proper 5-tone signal, the squelch will be activated, and you can receive the call. The LED lights orange.

The dealer can program that the squelch turns half active certain time after the signal disappears.

If auto reply has been set, the calling radio will receive confirming signals.

If signal reminder has been set, the warning tone sounds when the radio receives the proper 5-Tone signals.

## 2) Transmitting Signals:

If the PTT ID on the channel you select has been set with 5-Tone, the 5-Tone signal will be transmitted when making a call.

Or transmit the 5-Tone signal by pressing the PTT button and CALL1 or CALL2 button, which can be set by the dealer.

## 7.9 Talk Around

When the radio is out of the repeater service range, or the repeater is cut off due to power failure or any other reasons, you can communicate with other radios by the Talk Around function. However, it might be unable to communicate with others if it is too far away or it is hindered by geographical obstruction.

You can set the A or B keys to start or end the Talk Around.

When in the Talk Around communication, the radio receiving and transmitting frequencies are the receiving frequencies set in the original programming (communication in the same frequency). The CTCSS/DCS encoding and decoding will be resumed to the original decoding audio if they have been set differently.

## 7.10 Reverse Frequency

The dealer can set the reverse frequency function instead of the Talk Around on your radio.

When the reverse frequency is active, the transmitting and receiving frequencies are exchanged with each other. CTCSS/DCS encoding and decoding are also exchanged.

You can set the A and B keys to start or end the reverse frequency communication.

## 7.11 Auto Channel Selection (ACS)

If there is more than one local repeater, the user can activate the ACS function to scan these repeaters separately to find the desired repeater. The user can select the ACS function by setting the A and B keys. When the radio is in the ACS receiving state, press the PTT button to reply on the channel that receives the strongest signals. You cannot reply if it is in transmitting state.

When the user exits the ACS state, the radio will stay on the channel that receives the strongest signals.

## 7.12 Repeater Signals

- 1) Transmitting Beginning/Ending signals are used to join in or disconnect from some repeaters and calling systems.
- 2) The transmitting beginning signaling is used to join in the conventional repeater and its relevant auxiliary equipments. If the ID being transmitted matches with the repeater's ID, it can use the repeater and its auxiliary equipments.
- 3) The transmitting ending signaling is used to disconnect with the conventional repeater and its relevant auxiliary equipments. If the ID being transmitted matches with the repeater's ID, it can disconnect from the repeater and its auxiliary equipments.

## 8. Self Programming Mode

Notice: The channel can be set by the local dealer. You can also set them by yourself freely. Self-programming mode can be prohibited by dealer.

When the power is off, press the PWR key and ▲ key at the same time to turn power on and enter self-programming mode. LCD displays: **SELF**.

In self-programming mode, you can set the following items in turn by pressing FUN key.

- 01: Select a channel
- 02: RX frequency
- 03: CTCSS/DCS decode
- 04: TX frequency
- 05: CTCSS/DCS encode
- 06: W/N channel spacing
- 07: Busy channel lockout
- 08: Add or delete channels in the scan list
- 09: Compander - On / Off
- 10: Priority - On / Off

You can also exit self-programming mode by pressing **B** key when **SELF** displayed on LCD.

### 8.1 Select Channel

- A. Press ▲ / ▼ key to select channel you need. (Press and hold key for about over 1 second, you can select the channel consequently, press any key to stop.) Press **FUN** key and then the selected channel number will be displayed on LCD: **CH 01**.
- B. After the channel is selected, you can delete the selected channel by holding the SCN key for about 1 second. The DEL indicator will be displayed on LCD, then press FUN key to delete the selected channel data and return to next channel or press B key to cancel the deleting of this channel - **dEL**.

- C. Hold the A key for about 1 second to light **dELA** on LCD and delete all channels data. Then press A key to delete the selected channel data and return to CH 01. Or press **B** key to cancel the deleting of this channel.

Notice: When the DEL indicator or DELA indicator is light on LCD, it is invalid to press **FUN** key, ▲ key and ▼ key.

### 8.2 Set Operating Frequency

If frequency has been saved in the channel, this frequency displays on the LCD, e.g. **456.789**. Otherwise displays as : -----.

- A. Press **MON** key to delete or set the frequency.
- B. When the frequency is displayed, press the ▲ key or ▼ key to set the frequency by step size to change the frequency. Press and hold the ▼ key or ▲ key over 1 second to change the frequency consequently. The selected frequency will be displayed on the LCD.
- C. Press **B** key to exit setting and return to CH 01.
- D. Press **A** key to display the frequency step size on the LCD. Press **FUN** key to confirm the selected step size.
- E. Press **FUN** key to confirm and go to the next setting.

### 8.3 Set CTCSS/DCS Encode and Decode

In setting CTCSS/DCS encode and decode, press the **MON** key to switch among OFF/ CTCSS/ POSITIVE DCS/ NEGATIVE DCS, the default value is OFF.

When the CTCSS/DCS is selected, press the ▲ key or the ▼ key to select the CTCSS frequency or DCS code. LCD displays the corresponding setting value. Press the FUN key to confirm the setting, and enter the next item.

When the CTCSS/DCS is not selected, the LCD displays: **OFF**.

For the CTCSS (e.g. CTCSS 67Hz) the LCD displays: **q 67.0**.

For the positive DCS (e.g. DCS 023N), the LCD displays: **d 023**.

For the negative DCS (e.g. DCS 023 I), the LCD displays: **d- 023**.

### 8.4 Set the Channel Spacing

In this setting, press **MON** key to switch between 12.5kHz and 25kHz. The default value is 25kHz. When the channel spacing is 25kHz, the LCD displays: **bAnd 1**.

When the channel spacing is 12.5kHz, the LCD displays: **bAnd 0**.

Press the **FUN** key to confirm the setting, and enter the next item. Press **B** key to exit.



10 Trouble Shooting

- Cannot turn on or display is dim.*  
Power cable connection is not correct. Please connect the power cable over again.
- Cannot transmit.*  
Make sure that the PTT switch is pressed properly.
- Noise is loud.*  
Out of the range of communication.
- Cannot talk to or 4 hear each other in your group.*  
> Confirm the operating frequency is the same as the channel frequency or not.  
> Check CTCSS/DCS are the same or not.  
> Out of the range of communication.

11 Specification

<b>General</b>		
Frequency Range	PT617A: 136 - 174 MHz, PT618A: 440 - 480 MHz	
Channels	99	
Channel space	25 kHz / 12.5 kHz	
PLL steps	5 / 6.25 / 12.5 / 25 / 1000 KHz	
Operating Temperature	-30°C ~ +60°C	
Microphone impedance	2 kΩ	
Antenna impedance	50 Ω	
Modulation type	PT617A: 16KF3E (W); PT618A: 8KF3E (N)	
Frequency stability	2.5 x 10	
Power supply	DC 12,5 <sup>A</sup> V	
Operating Current	≤8A	
Dimension(WHD)	140 mm x 40 mm x 145 mm	
Weight	1000 g.	
<b>Receiver</b>		
Sensitivity (12dB SINAD)	PT617A: 0.25μV(W);	PT618A: 0.28V(N)
Operating band width	PT617A: +7KHz(W);	PT618A: +3.5KHz(N)
Adjacent channel selectivity	PT617A: ≥75dB(W);	PT618A: ≥65dB(N)
Intermodulation reject ratio	PT617A: ≥70dB(W);	PT618A: ≥65dB(N)
Spurious response reject ratio	≥ 75dB	
AF output power	2W (8Ω, distortion less than 5%)	
<b>Transmitter</b>		
RF power	1 - 25 W	
Spurious and harmonics	≤ -70dB	
FM noise (300~3000Hz)	PT-617A: ≤-45dB(W); PT618A: ≤-40dB(N)	
Audio distortion (3~30 kHz)	≤5%	
Maximum frequency deviation	PT-617A: ±5kHz(W); PT618A: ±2.5kHz(N)	

CE0678!

For sale and use in :

A, B, CZ, D, DK, E, F,  
FIN, GB, HR, I, L, N, NL, S



WEEE - Reg. Nr. DE 91930360 8 ( EAR ), 50635 ( ERA )



DSD 2617305, ARA 2284



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