

AfterSales TSO - Tech Tips #108



MAS002700 (MTT 21-02)

From: AfterSales – TSO
To: Maserati Network
Auburn Hills, MI.
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Radio display backlight operation

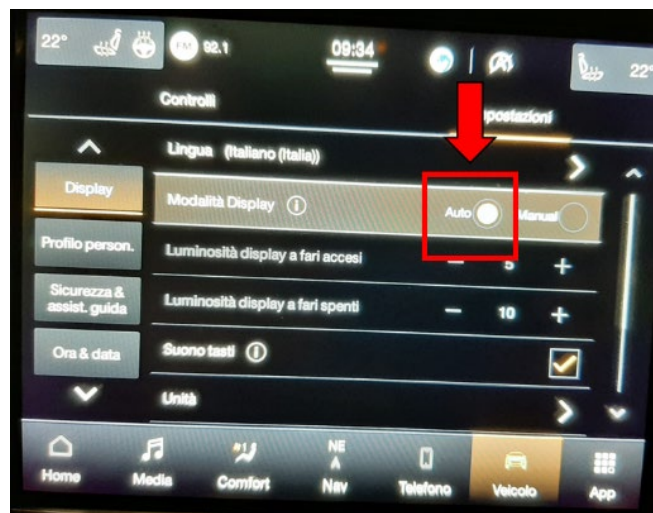
Section: 08.71 - 4 IT SYSTEM

Models: M161

Issue: Due to some customer concerns, the below information is intended to better describe the operating logic of the backlight function of the Radio Display.

A) Radio display lighting with "automatic" setting:

1. The "automatic" setting of the Radio Display is set from the Radio Display by selecting the "auto" option



2. The backlight intensity of the Radio Display (when in "automatic") is set by the Cluster in the "vehicle" settings section → "ambient lights" → "backlighting" using the steering wheel controls.

The light intensity of the backlighting can be set to the following values: Min, 1,2,3,4, Max..



3. By selecting the "automatic" display mode, the light intensity of the Radio Display is managed by the car with the following logic:

DAY Mode

The car detects external lighting by using the twilight sensor.

Regardless of the selection made in the cluster, the light intensity of the Radio Display will always be set at the MAX level.

NIGHT Mode

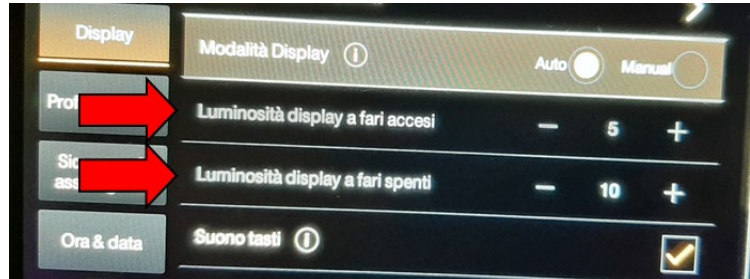
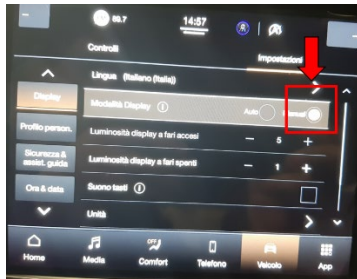
The car detects a lack of external lighting by using the twilight sensor.

The light intensity of the Radio Display will be set in accordance with the intensity chosen from the available levels (Min, 1, 2, 3, 4, Max) of the backlight menu on the Instrument Cluster.

In the transition between DAY and NIGHT there are different thresholds of light intensity and transient management (Night → Day: 4 seconds; Day → Night: 2 seconds).

B) Radio display lighting with "manual" function:

1. The "manual" function of the Radio Display is set from the Radio Display by selecting the "manual" option.
2. The backlight intensity of the Radio Display (when in "manual") can be set from the Radio Display with light intensity levels from 0 to 10 for the DAY (Display brightness with headlights off) and NIGHT (Display brightness with headlights on).



2.1 ONLY for NAFTA market - definition of DAY and NIGHT mode

With the light switch in OFF "O", the DAY mode is set and, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness with headlights off"

With the light switch set on PARKING LIGHTS "☞☞" or in the LOW BEAM "☞☞", the NIGHT mode is set and, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness at headlights off "

If the light switch is set in AUTO mode, the car identifies DAY or NIGHT mode automatically by reading the twilight sensor and the relative external brightness level detected.:

In DAY mode, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness with headlights off"

In NIGHT mode, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness with headlights on"

2.2 ROW - definition of DAY and NIGHT mode

The car identifies DAY or NIGHT mode automatically by reading the twilight sensor and the relative external brightness level detected

In DAY mode, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness with headlights off"

In NIGHT mode, on the Radio Display, the possibility of setting the brightness of the display (from 0 to 10) will be enabled using the item "Display brightness with headlights on"

headlights on"

3. By selecting the "manual" display mode and in accordance with the definitions of DAY and NIGHT mode described above, the light intensity of the Radio Display is managed by the car with the following logic

DAY mode

The light intensity of the Radio Display will be the one chosen (from 0 to 10) using the selected setting of "Display brightness with headlights off"

NIGHT mode

The light intensity of the Radio Display will be the one chosen (from 0 to 10) using the selected setting of "Display brightness with headlights on"

Between DAY and NIGHT there are different thresholds of light intensity and transient management (Night → Day: 4 seconds; Day → Night: 2 seconds)