

*Classic Car Stereo*



## DAB DAB+ FM RDS USB Bluetooth hands free & streaming Aux in radio

Part no. CR017 Classic 200



Please read this manual before use

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## Audio Source selection

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**To turn the unit on** press button number 1

**To turn the unit off** press button number 1 for 2 seconds

**To adjust the volume** (00 to 46) turn button number 1 clockwise to increase and anti clockwise to decrease the volume. Please note, every time you turn the unit on, the volume will default to volume level 17.

Pressing button number 1 will scroll between the clock display, bass, treble, balance, fader, sub woofer, loudness, equaliser, beep and 12/24 hour. After selecting/adjusting the setting, the unit will exit the selected mode after 5 seconds.

**To adjust clock** press button number 1 once to display clock then turn clockwise to increase minutes and anti clockwise to increase hours. The clock can be displayed in 12 or 24 hour mode. (see below)

**To adjust the bass ( -10 to + 10)** press button number 1 twice then turn clockwise to increase and anti clockwise to decrease

**To adjust the treble ( -10 to + 10)** press button number 1 three times then turn to increase and decrease as above

**To adjust the balance ( L10 to R 10)** press button number 1 four times then turn to adjust the left to right volume (balance 00 is equal volume left and right)

**To adjust the fader front to rear ( F 10 to R 10)** press button number 1 five times then turn to adjust front to rear volume levels. (fader 00 is equal volume front and rear)

**To adjust the sub woofer volume ( - 10 to + 10 )** press button number 1 six times then turn clockwise to increase and anti clockwise to decrease the sub woofer volume. (-10 is minimum and +10 is maximum volume) Please note you will require a separate sub woofer/amplifier for this function to work.

**To adjust the loudness ( on/off)** press button number 1 seven times then turn to scroll on/off. When selected, "LD" will be shown in the display in BT music, aux in and USB/I pod mode.

**To select the in built equaliser settings** press button number 1 eight times then turn to scroll between the options ( ie. flat, classical, pop, rock, off.) If you wish to adjust the bass/treble separately, you will need to turn the equaliser to the "off " setting.

**To turn the beep on/off** press button number 1 nine times then turn to scroll between on and off ( with beep on there will be an audible beep through the speakers each time you operate a control on the unit.

**To select 12 or 24 hour clock** press button number 1 ten times then turn to scroll between 12 and 24 hour clock display. This can be done either before or after adjusting the time setting.

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## DAB / DAB+

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Please note the clock is only displayed for 5 seconds after pressing button number 1.

**To select the mode**, press button number 7 to scroll between dab/fm/bt music (USB or I Pod if connected) and auxiliary input.

### **Dab /DAB +radio operation**

**To tune in the dab radio** press button number 6, the display will show full scan then press and hold button number 6 for 2 seconds to start the station search. The display will show scanning and a progress bar and the number of stations found will be indicated on the top right of the display. Alternatively you can press and hold button 7 to scan.

The radio will then store all the stations that have been found in alphabetical order and begin playing the first station in that order.

**To select a specific station**, turn button number 7 until the relevant station name is displayed. The display will show connecting and will begin to play the station. If you are out of the station reception area or if the signal is too weak, the display will show “service not available”. Alternatively you can turn and hold button number 7 to scroll through the stations faster either clockwise to scroll forwards or anti clockwise to scroll backwards. Releasing the button stops the scrolling.

You can pre set up to four stations by firstly selecting the station then press and hold the pre set buttons numbers 2, 3, 4 or 5 for 2 seconds. The display will show “preset a stored”. The pre sets can be over written at any time by repeating the procedure.

**To manually tune the radio** press button number 6 then turn button number 7 to show manual tune, then press button 6 for 2 seconds, turning button number 7 will now manually tune showing the station frequency.

**To select the DRC (Dynamic Range Compression)** function, press button number 6 then turn button number 7 to show DRC in the display. Press button number 6 for 2 seconds then turn button number 7 to scroll between off, low and high. Press and hold button 6 to store the selected level.

**Dynamic Range Compression;** this feature can make it easier to hear quieter sounds whilst in a noisy environment. The DRC function will increase the volume of quieter parts and decrease the volume of the louder parts of a radio broadcast. Please note that not all DAB broadcasts support the DRC function.

**Prune**, this feature allows you to remove any DAB stations from the memory that can no longer be received either due to frequency changes or being out of the station/reception area. To select this function press button number 6 then turn button number 7 until Prune is shown in the display, press and hold button 6 for 2 seconds

then turning button 7 scrolls between yes and no. Select yes then hold button 6 for 2 seconds, the relevant stations will now be removed from the memory.

**System, to perform a factory reset**, press button 6 then turn button 7 until the display shows System, turn button 7 until the display shows factory reset. Turn button number 7 to select yes, then press and hold button 6 for 2 seconds, the unit will now revert back to the factory settings and cancel any settings that you may have made.

**Software version**, the software version can be displayed by pressing button number 6 then turning button 7 until the display shows “SW”, pressing and holding button 6 for 2 seconds will display the software version.

The factory reset and software version functions can be selected in either DAB or FM mode.

To exit from any of the settings selected press button number 6 briefly or wait for 30 seconds.

### FM radio

To tune in the FM radio select the FM mode, the display will show 87.5MHz (no radio Text).

Press button number 6, the display will show Scan Setting, press and hold button 6 for 2 seconds then the display will show scan settings all stations. Turning button 7 will scroll between *All Stations* and *Strong Stations*. Select either *All Stations* or *Strong Stations* then press button 6 briefly to exit, now press and hold button 7 to begin the scan.

The display will show “scanning” and will automatically set up to 18 preset stations into the memory. The number of stations found can be seen at the top right hand side of the display during scanning.

To select any of the presets, turn button 7 to scroll through 1 to 18 or you can press buttons 2, 3, 4, or 5 to select the first 4 presets. Please note, the radio may not necessarily find 18 stations depending on the reception area.

You can then set any of the FM stations to preset buttons 2, 3, 4, and 5 by turning button 7 to select the required station, then press and hold the relevant preset button, the display will show that the station has been set by displaying “stored”. This will not alter any DAB stations that you may have previously stored.

Manual tune, to manually tune an FM station, turn and hold button number 7 until the display will show “Manual tune” then release, now turning or turning and holding button 7 will manually tune up or down accordingly.

## Bluetooth music streaming

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Two seconds after releasing button 7, the display will show “auto” and revert back to pre set selection mode.

If the station that you are listening to supports radio text, the transmitted information will scroll across the display at the bottom whilst showing the station name and pre set number across the top. If there is no radio text available or a weak signal, then the display will show “no Radio Text”

The FM scan can be performed at any time but please note that any previously stored stations will be replaced with those found during the new scan.

Stereo/mono, If you are listening to a weak FM station you can switch the tuner to Mono which may help eliminate any unwanted background noise/interference. Press button number 6 briefly then turn button 7 until the display shows Audio Setting then hold button 6 for 2 seconds, you can then turn button 7 to scroll between “Stereo allowed “ and “Forced Mono”. Select “Forced mono” Stereo allowed” then hold button 6 for 2 seconds.

## Bluetooth

The Classic 200 can play music from a Bluetooth music device or mobile phone.

Firstly you should pair the device in question by turning on Bluetooth in its menu and searching for the Classic 200. You should then select the device named Autosound and connect to it. If your device requests a pin number, enter **0000**.

Each time you turn on the Classic 200, your device should connect automatically, however, you should make sure that your device is set for automatic connection of Bluetooth devices.

The “BT” symbol will flash on the display until the device is connected then it will become static indicating there is a Bluetooth link. “BT” is not shown in DAB/FM mode. Depending on your device, the radio display may show “BT Talk” and mute the sound momentarily each time it connects.

You can now play your music via Bluetooth by selecting BT Music in the menu.

Turning button 7 anticlockwise will select the previous track and turning clockwise will select the next track.

Pressing button number 2 will pause the music and pressing it again will resume play. If your Bluetooth device is also a mobile phone, pressing button 3 will dial the last number, pressing again ends the call.

### Mobile phone operation

To answer an incoming call press button number 3.

Pressing button number 3 during a call will switch between hands free and handset. Pressing again will revert back to hands free.

To end a call press button number 2.

Pressing button number 3 will dial the last number ( last number redial).

There is no option to select and dial other numbers from the Classic 200, this can only be done from your telephone handset.

The hands free volume can be adjusted by turning button number 1 during a telephone call. This will not affect the volume of the audio source that has been interrupted by the call.

### Auxiliary input

You can play music from a portable music device that has a headphone jack output. Connect the device using a suitable cable to the red and white phono fly lead at the rear of the Classic 200 marked "Aux Input".

Select the aux in mode by pressing button number 7. You may need to increase or decrease the volume on your music device to achieve a volume equal to that of the radio etc.

### USB mode

You can play music from a USB stick by connecting it to the fly lead at the rear of the unit marked USB.

The device will automatically recognise the USB and begin playing the music. The display will scroll between the track number / the total number of tracks / elapsed time of the track that is currently playing and the song title / artist / album title providing this information is available from the USB.

**Next/Previous track** To select the next track, turn button 7 clockwise to select the next track and anti clockwise to select the previous track.

**To fast forward or fast rewind into a track**, turn and hold button number 7 clockwise for forward and anti clockwise for backwards. Releasing the button will resume play at that point.

**Pause**, press button number 2 to pause and again to resume play.

## I Pod mode

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**Intro scan**, press button number 3 for intro scan, this will play the first 10 seconds of each track until you press it again. The display will show INT in the display to show that this function has been selected.

**Repeat**, Pressing button number 4 will turn on the Repeat function. This will repeat the track until pressed again and will show RPT in the display to indicate that this function has been selected.

**Random**, This function can be selected by pressing button number 5 and the tracks will be played in random order until the button is pressed again. The display will show RDM to indicate that this function has been selected.

**Selecting folder**, Pressing button number 6 will show the folder number in the bottom of the display, to change the folder press again to scroll through the folder numbers.

Please note that some mobile phones / mp3 players may not be compatible with the USB and therefore should be connected via the aux input.

## I Pod mode

Connect your I Pod into the fly lead marked USB, the Classic 200 will show I Pod in the display.

**Pause/play** Pressing button 2 will pause the music and pressing again will resume play.

**Next and previous track.** To select the next track, turn button number 7 clockwise and to select the previous track, turn anti clockwise.

There is no option to select folders or albums in I Pod mode. We suggest that you set a playlist if required.

We recommend that you connect and disconnect your I Pod whilst the Classic 200 is powered off.

## Installation

Before installing you Classic 200 please make sure that the radio will fit into the aperture provided by the vehicle manufacturer. If there is no radio aperture, we can supply our underdash tray that allows you to mount the radio below the dashboard/inside the glovebox. Also, make sure that the vehicle is negative earth, if not our positive earth adaptor part number CA002 will be required.

The spindles are set at a distance of 132 mm apart, however, they can be adjusted if necessary to align with pre cut holes in certain dashboards. To do this, remove the knobs, fascia and spindle nuts on the end of the spindle shafts. Next, slacken off the spindle nuts that secure the shafts to the radio body then carefully slide the spindles

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within the oval cut out in the radio to the appropriate distance apart then re-tighten the spindle nuts. Please note that you should only loosen the nuts to adjust the spindle spacing and not as part of the mounting process. The fascia has pre cut holes for the spindles and would need to be modified for the new spindle spacing. The spindles can be adjusted from 132 to 150 mm apart.

### Fitting the DAB antenna

The antenna should be mounted towards the top of the windscreen and at least 4 centimeters (1 ½ inches) from any metal. It can be mounted vertically or horizontally, however, please bear in mind that you will need to run the cable from the window element to the radio.

Once satisfied with the position, thoroughly clean the area of glass in question and make sure it is dry. It is advisable to warm the area before application in cold or damp conditions. Remove the brown backing paper from the element and stick the element to the window. Make sure it stuck to the window correctly by pressing firmly. Now you can remove the front plastic film then the three plastic sections from within the element to leave just the element and the surrounding 2mm of plastic film remaining.

Next, you need to fit the cable/connector to the window ensuring that the gold prongs are each touching one of the square contacts on the element. You may need to bend the prongs slightly before removing the red backing film to make sure it aligns correctly. It does not matter which prong touches with which contact providing there is one on each.

Now run the cable to the radio aperture and screw the gold connector firmly to the corresponding connector on the radio marked DAB ant. The red wire should be connected to the blue wire A5 in the radio ISO connector and the black wire connected to earth or the black wire A8 in the ISO connector.

### Power and speaker connections

#### ISO Connector A

Wire colour	Pin number	connect to
Black	A8	chassis/earth
Red	A7	+12 volt ignition/accessory
Yellow	A4	+12 volt permanent power supply
Blue	A5	Dab antenna (and FM antenna if powered/electric.)

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## Installation

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### ISO Connector B

Purple	B1	Right rear speaker positive
Purple/black	B2	Right rear speaker negative
Grey	B3	Right front speaker positive
Grey/black	B4	Right front speaker negative
White	B5	Left front speaker positive
White/black	B6	Left front speaker negative
Green	B7	Left rear speaker positive
Green/black	B8	Left rear speaker negative

If you have only two speakers then the un used speaker wires must be insulated and not connected. It does not matter whether you use the front or the rear speaker wires.

Any speakers that share a common connection/earth must be re wired separately otherwise damage may occur to the radio.

The radio is designed to operate either two or four speakers or one of our DVC (dual Voice Coil) speakers. It should not be connected to a single speaker on one channel.

The red accessory wire A7 may be connected to a permanent power supply along with the yellow A4 if there is no accessory position on your vehicle.

The accessory connection ( red wire pin no A7) on your Classic 200 is protected with a 10 amp fuse located the rear case next to the wiring connector. We recommend fitting a separate 5 amp fuse in the permanent power supply ( yellow wire pin no A4).

If the power supply to your Classic 200 is disconnected then any settings and radio stations that you have programmed will be retained.

### Sub Woofer connection

The sub woofer line output connection is a green phono connector on a fly lead at the rear of the radio and will provide a line out signal for an optional sub woofer/ amplifier. The volume of the sub woofer can then be adjusted in the audio settings. (-10 to + 10) The sub woofer volume is not affected by the “ fader” setting

### Hands free microphone

The hands free microphone should be mounted in front of the driver either at the top or bottom of the windscreen pillar or on the dashboard in a convenient location.

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## Mounting the radio

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The cable should then be connected to the fly lead on the rear of the radio labelled "MIC" The optional sponge wind muff should be fitted to the microphone if it is fitted where it could be affected by draughts / wind. Typical scenarios would be in a soft top vehicle or near a heater vent / window opening.

### Amplifier line output

The rear line output phono connectors are located on the rear case of the radio next to the FM aerial connector and provide an output for an optional amplifier. The volume of the line output is controlled with the speaker volume. The line output will also adjust via the fader along with the rear speaker outputs, however, you do not have to have any rear speakers connected for it to work. (there will be no line out volume if the front speakers only are selected via the fader).

### Mounting the radio

To install the radio firstly remove the left and right buttons (numbers 1 and 7) by pulling them towards you. This will allow access to the spindle nuts and washers that can now be removed along with the front fascia panel. The radio can now be positioned in the aperture either from the front if the cut out is 180 x 53 mm or more, or from the rear if it is smaller. You may need to space the unit back in the dashboard by adding spindle nuts and/or washers to the spindles first so that there is the minimum of thread showing on the spindles once the front fascia is fitted. Once satisfied with the position make sure the radio is secure and re fit the front fascia, washers/nuts and buttons ensuring the radio is not loose. You may require additional fittings to secure the radio in some instances.

Ensure that the radio is fitted securely into its mounting position and the wires are not likely to become trapped in any moving parts or cause an obstruction.

It is advisable to fit a rear support bracket using the m6 stud and nut on the back of the radio if there is suitable access to do this.

## Diagnosics

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### Diagnosics

#### **Radio will not power up.**

Check that there is 12 volts positive power on both the yellow and red wires (pins A4 and A7) and that there is a good earth (ground/chassis) connection on pin A8. Check that there is sufficient power in the vehicle battery. Check for loose/corroded connections in both the power and earth connections.

#### **Radio powers up but no sound.**

Make sure that there is no short circuit on any of the speakers and that they do not share a common negative or earth. Check that the speaker wiring is not cut or trapped anywhere particularly into the doors, through grommets around metal etc.

Make sure that the fader control has not been adjusted (if only 2 speakers are connected)

Make sure the speakers are actually functional, particularly if they are a number of years old.

#### **No/poor fm reception**

Check that the antenna is fully extended and the connector is clean and pushed firmly into the radio socket.

Check for any damage to the aerial cable from cuts, sharp bends/kinks and that it is earthed to the bodywork correctly and that there is no short circuit or corrosion particularly if exposed to the elements or is a number of years old.

If it is a powered antenna, check that there is power to energise the antenna circuitry/motor.

Radio reception is often better outside and away from buildings. Reception can be affected by some radio transmitters, mobile phone masts, power lines, fluorescent and led lighting etc.

Try re tuning the radio.

No/poor dab reception.

Firstly check that you are in a dab reception area. If in doubt check the dab web site [www.ukdigitalradio.com](http://www.ukdigitalradio.com) for further information on your area.

Make sure the aerial connection is connected to the radio fly lead correctly and that there is power and earth to the antenna. See installation instructions.

Make sure that the antenna conductors are making contact with the window element and that there is no contamination of the contacts. Check that the cable is not trapped or kinked/folded or cut anywhere.

Reception is often better outside and away from buildings. DAB reception can be affected by some radio transmitters/masts and power lines, fluorescent and led lighting etc.

Try re tuning the radio.

Try a Factory Reset then re tune.

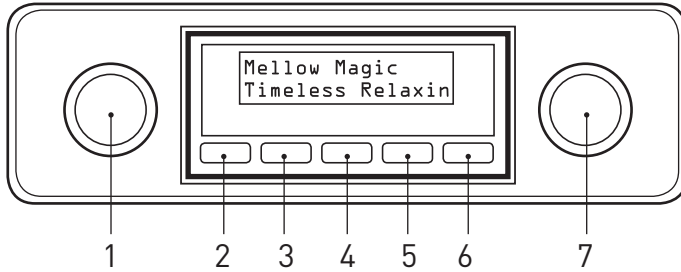
### **USB size/format**

If your Classic 200 is not able to read your memory stick, please make sure that the files are in either Mp3 or WMA format, also, make sure that there are no other “non music” files that may affect the reading process.

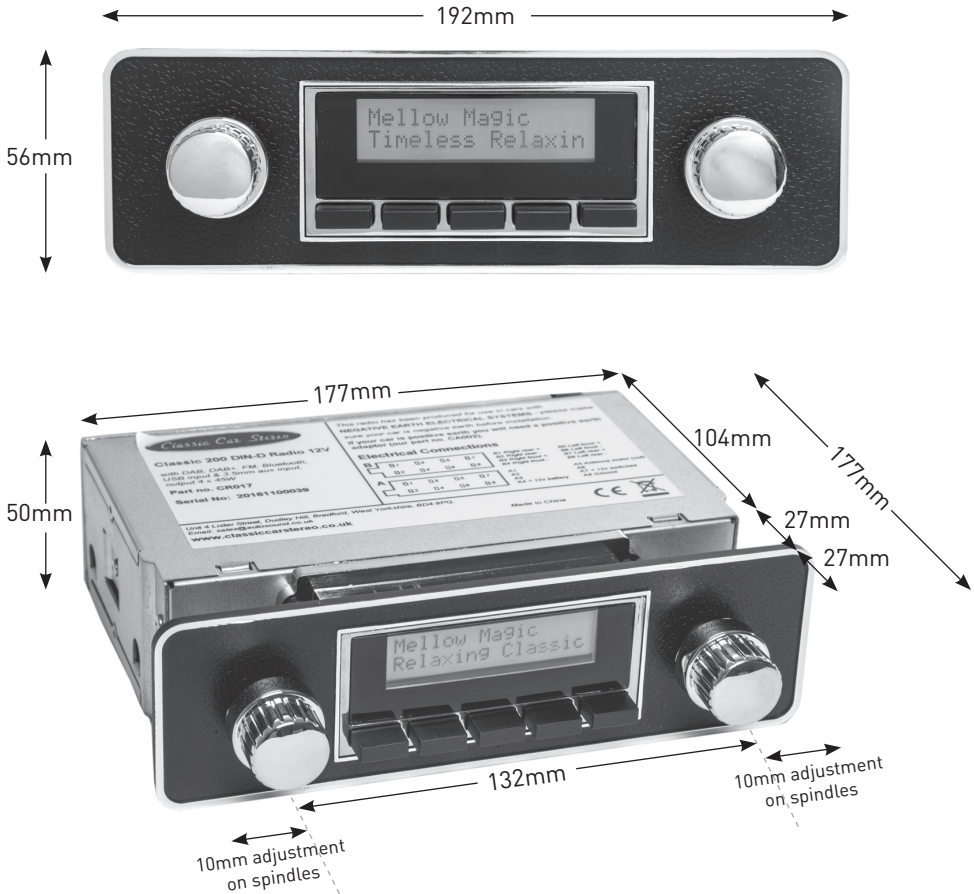
### **Aux input**

If there is no sound or low volume in aux mode, firstly try adjusting the volume on your device. Make sure that the cable is not faulty/damaged and that is pushed firmly into both the device and the correct fly lead on the back of the Classic 200. The input is suitable for any device that uses portable headphones.

# Wiring diagram



# Dimensions

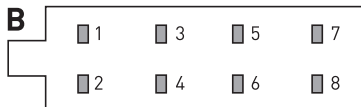


## Electrical Connections

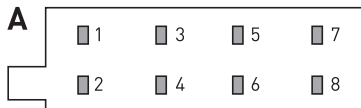
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This radio has been produced for use in cars with **NEGATIVE EARTH ELECTRICAL SYSTEMS** – please make sure your car is negative earth before installation.

If your car is positive earth you will need a positive earth adaptor (our part no. CA002).



B1 Right rear +	B5 Left front +
B2 Right rear -	B6 Left front -
B3 Right front +	B7 Left rear +
B4 Right front -	B8 Left rear -



A1	A5 Antenna motor (out)
A2	A6
A3	A7 +12v switched
A4 + 12v battery	A8 Ground



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