

Digital Music Changer

User Maunal



iPod

MP3
WMA



MD

Ø Feature:

- 1:CD sound quality , no FM noise
- 2:Control the music file from radio buttons, Track+/-/Disk +/-/Rpt/Radom control are available
- 3:Last position memory function
- 4:Support up to 16G SD card or USB flash.
- 5:USB 3.0 Port Dual functions support and charge Ipod/Iphone automatically while connecting. Control and operate your IPOD/iphone from radio buttons or your ipod/iphone panel
- 6:Bluetooth handfree (AD2P) are available. Answer/reject/end a call by using the audio buttons ,Report the caller's number (English) when a call is coming
- 7:Dual AUX port design make Auxiliary input and Mic-phone jack work separately

CE FCC RoHS

Ø DMC Content



DMC MAINFRAME



USB Reader



Car Raio Connection line



Ipod line



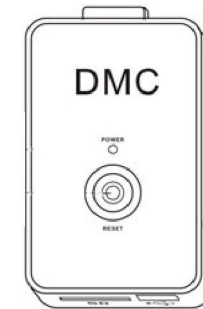
MIC Speaker

Ø DMC Models & Compatible with

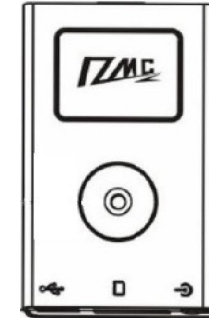
	DMC 2010	DMC 9088
MODELS	DMC-20168 DMC-20178 DMC-20188 DMC-20198	DMC-9088A DMC-9088B
Compatible with	OEM Radio: Honda, Toyota, Volkswagen, Mazda, BMW, Nissan, Audi..... After-market Radio: Sony, Panasonic , Alpine (M-bus) ,Pionner,Clarion,Blaupunkt.....	

- I DMC-20168:Support MP3/USB/SD/3.5 AUX IN
- DMC-20178:Support MP3/USB/SD/iPod/Aux
- DMC-20188:Support MP3/USB/SD/AUX+Bluetooth
- DMC-20198:Support MP3/USB/SD/Aux/Ipod/Iphone+Bluetooth

- I DMC-9088A Compatible with OEM Radio,and also compatible with Hyundai car radio
- DMC-9088B Compatible with After-market Radio



DMC-9088



DMC-2010

Ø Installation Guide

- 1.Before the installation,power off the car
- 2.Setting the **Dip-switches** on the DMC,it makes the DMC Compatible with the vehicles it is being installed in .
- 3.Plug the DMC into your car stereo changer port(usually located behind the radio)
- 4.Insert the USB Disk or SD card (please consult user manual about **setting music files in the USB disk or SD card**)
- 5.For PC,PSP,MD,Mobile Phone etc aux device,connectit with Aux in port.For ipod you can also connect with the DMC like the right picture.
- 6.Once the unit is installed,power on the radio ,then press the CD button ,you will then have the following control:Disk+/Disk-,Next track,previous track,Fast Forward&Fast Rewind etc.
- 7.Press “Repeat” or “SCAN” button to switch between Mp3 and AUX IN.



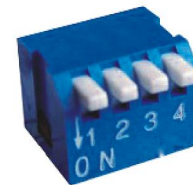
Ø Dip-switch Setting list

OEM Radio

	DMC-2010				DMC-9088			
Brand	1	2	3	4	1	2	3	4
Honda 2.4	ON	ON	ON	ON	ON	ON	ON	ON
Honda 2.3	ON	ON	ON	OFF	ON	ON	ON	OFF
Toyota(small)	OFF	ON	ON	ON	OFF	ON	ON	ON
Toyota(big)	OFF	ON	ON	ON	OFF	ON	ON	OFF
Mazda	ON	ON	OFF	ON	ON	ON	OFF	ON
BMW	OFF	OFF	ON	ON	OFF	OFF	ON	ON
Volkswagen(8pin)	ON	ON	OFF	OFF	ON	ON	OFF	OFF
Volkswagen(12pin)	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
Nissan	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
Suzuki	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
Hyundai(8pin)	/	/	/	/	ON	OFF	OFF	ON
Hyundai(13pin)	/	/	/	/	OFF	OFF	ON	OFF

After-market radio

	DMC-2010				DMC-9088			
Brand	1	2	3	4	1	2	3	4
Sony	OFF	OFF	ON	ON	OFF	OFF	ON	ON
Pioneer	ON	OFF	ON	ON	ON	OFF	ON	ON
Alpine(M-bus)	ON	ON	ON	OFF	ON	OFF	OFF	OFF
Panasonic	ON	OFF	ON	OFF	ON	OFF	ON	OFF
Clarion	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
Blaupunkt	OFF	ON	OFF	ON	OFF	ON	OFF	ON



DMC-2010 DIP SWITCH



DMC-9088 DIP SWITCH

Car Radio Buttons

Brand	Answer phone	Hang up	Switch to aux in	Single play mode	Random playing
Honda	Previous	Next	RPT/ KeyPad 4	RPT	RDM
Toyota	RPT	RDM	RPT	RPT	RDM
Mazda	RPT	RDM	RPT/RDM	RPT	RDM
BMW	Previous	Next	SCAN		SCAN
Volkswagen	Previous	Next	SCAN	SCAN	MIX
Nissan	Previous	Next	SCAN		SCAN

Ø Bluetooth Function

1. Specification

It is compliant with the Bluetooth Specification 1.2 supporting the following profiles:

Bluetooth headset Profile 1.1, Hands-free Profile 1.0. However, interoperability between the DMC and other Bluetooth-enabled products is not guaranteed because it depends on compatibility. Check with the manufacturers of other devices to determine their compatibility with this device.

Your mobile and other devices need support the following profiles:

- I Wireless object exchange profiles (OBEX)

- I Bluetooth Hands-free profiles or headset profiles (HFP/HSP).
- I Bluetooth Advance Audio Distribution Profiles (A2DP).
- I Bluetooth Audio/Video Remote Control profiles (AVRCP).
- I Frequency band 2.4GHz-2.48GHz the ISM band
- I Bluetooth Version V1.2 and fully compliant with V1.1/V1.0
- I Support Profiles HSP/HFP and A2DP and AVRCP
- I Class of can of exit Class 2
- I Receiver sensitivity <-84DBM at 1e-3 ber
- I Valid Distance 10 meters maximum (30 feet)

2. Bluetooth Connecting/pairing.

You must pairing DMC with a compatible phone to active Bluetooth function

- 1) Make sure the Bluetooth is activated in your mobile phone .
- 2) Enter the submenu where you can set the phone to search for Bluetooth devices, and start the search.
- 3) Turn on your engine, DMC will search and automatically pairing.
- 4) Select by the name of "M.costa" ,Then enter passwords "9088".
- 5) Bluetooth function is active now.

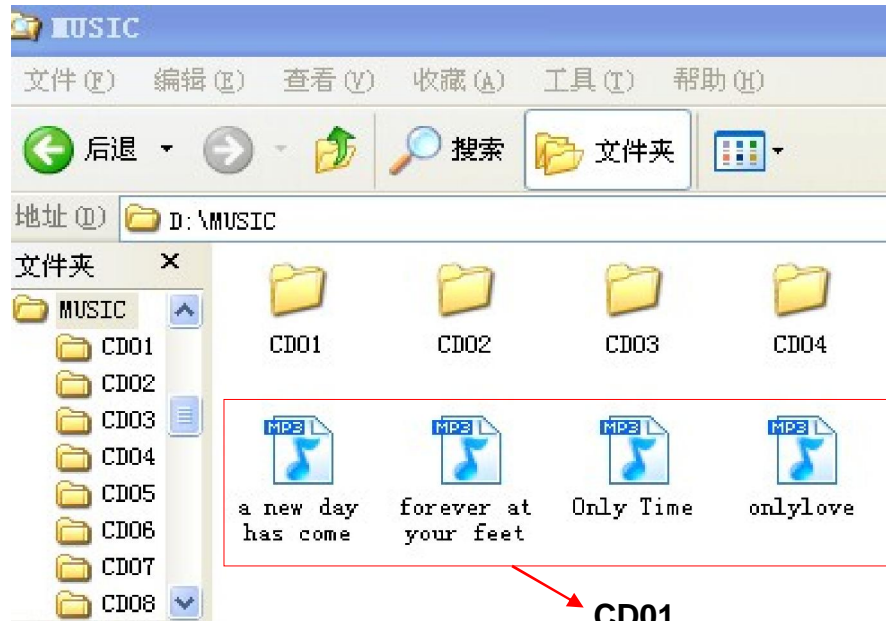
3. Bluetooth Troubleshooting

If you cannot connect the DMC to your phone, do as follows:

- I Make sure DMC is powered on and paired with your phone.
- I Make sure DMC is within 10 meters of your phone and no obstructions between DMC and phone

Ø Setting U Disk Music File

1. How to copy the music file to the SD card or USB Disk



CD01

DMC support multi folder playback, one directory is mapped to one disk and one file is mapped to one track. The music file on root directory will display CD01 on car radio screen, The music file on sub-directory will display CD02, CD03...CD98, the order is according to the time that you save on SD card or USB Disk. The folder name can be English letter or Arabic numerals or the others.

<u>Car Radio</u>	<u>Folder quantity</u>	<u>Car Radio</u>	<u>Folder quantity</u>
Volkswagen	6 or more	Sony	6 or 10 or 99
Toyota	99	Pioneer	99
Honda	99	Alpine(M-bus)	6 or 99
Mazda	6 or 10 or 99	Panasonic	9
BMW	6 or 99	Clarion	99
Nissan	99	Blaupunkt	9
Suzuki	6 or 99	Hyundai	8 or 9

DMC can support up to 99 folder (including root directory), every folder can save up to 99 files (You can save up to 1000 music files, but most of OEM radio only can display double-digit track number, like number 188 music file will display 88 on radio screen)

The table above is the details of folder support quantity according to different car radio.

!We suggest saving some music files on both root and sub-directory, it will increase the searching speed of DMC, if root directory is empty, it will start from first sub-directory (Radio screen display CD02)

2. DMC support folder automatic repeat playback function

it means once the last song of the folder playback is down, it will automatic jump to first song of the folder. If you want to change the folder, just press the disk+/- button on the radio panel. DMC also support memory playback, once you power off the engine, it will memorize the track number and disk number to MCU, when you power on the engine, it will start playback from the beginning of this song track and disk that MCU memorized

Ø Aux in Function description

We provide a aux in port for external audio sources,Auxiliary input device such as Mp3 player,Potable DVD player,Mini Disk player,handheld gaming system,notebook computers etc can be added to the OEM radio while delivering optimum sound quality,for most of car radio,we use "repeat" button to switch between Mp3 and Aux in,For volkswagen radio,we use "SCAN" button to switch between Mp3 and Aux in.When you press "Repeat" or "SCAN" button,it will switch to Aux in,MP3 playback will pause,press "Repeat" or "SCAN" again,MP3 will start playback

Ø RESET function decription (DMC-9088)

Long time using DMC on your car ,sometimes will occurs on display or out of control,you just need press "RESET" button ,it will reset the DMC,then the DMC playback will get right.

Ø Technical Spicification

Input voltage	7 ~ 15VDC	+ACC voltage	3VDC~VDD	-ACC voltage	0 ~ 1 VDC	Current	80 mA (12V)
Standby current	< 5 mA	USB Power	5V, 200mA	AUX IN	1.0Vrms (10k Ohm)	Audio output	2.0Vrms (10k Ohm)
Audio S/N	>90 dB (1kHz,0 dB)	Dynamic range	>80 dB (1kHz,0 dB)	THD	0.04%	Operating Temperature	-20°C ~ 70°C
File format	WMA (8Kbps ~320Kbps),MP3(8Kbps ~320Kbps)		Dimension	102x66x17mm	Box Dimension	147x97x75mm	Weight 0.5kg

Ø DMC Troubleshooting

Problem	Solution
Radio can not identify DMC	(1) Check the DIP switch whether be set on the correct position. (2) Check all cable whether connected correctly.
Audio play normally but screen display is not work (play time, disk number not display on screen)	Check the DIP switch whether be set on the correct position.
Screen display is normal but without voice or single voice channel	(1)Check SD card or U disk whether plug firmly and save WMA/ MP3 format files. Moreover, some inferior SD card or U disk may not be compatible. (2) Check Radio volume whether switch on or is on the 'MUTE' mode (3) Check Radio sound field mode whether set on the equilibrium position (4) Press switch key to switch to CDC or FM mode.
Screen display is normal but without voice or single voice channel	Check whether set up multi-directories in memory devices

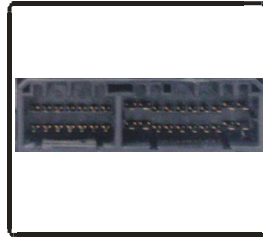
Ø DMC Compatible with car radio(just for reference)

2 OEM Radio

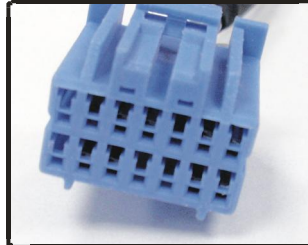
Honda 2.3



Front of Honda Car radio



Back of Honda Car radio



Honda Cable Harness

Compatible with:

Accord 1998-2002, Civic 1999-2002, Odyssey 1999-2004, Pilot 2003-2005, Prelude 1999-2001, S2000 2000-2003

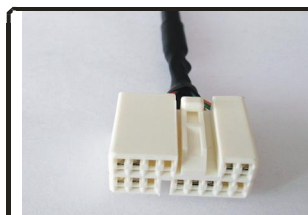
Honda 2.4



Front of Honda Car radio



Back of Honda Car radio



Honda Cable Harness

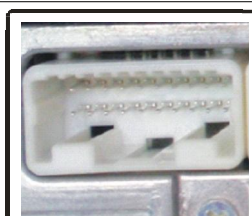
Compatible with:

Accord 2003-2006, Fit, City, Civic, Element 2003-2005, Odyssey 2005-2006, Ridgeline 2006, S2000 2004-2006

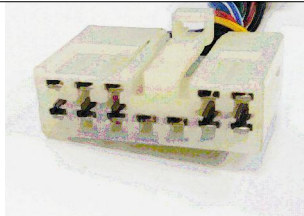
Toyota Big Plug



Front of Toyota Car radio



Back of Toyota Car radio

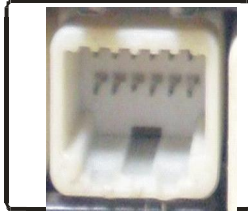


Toyota Cable Harness

Compatible with:

Celica 1998-2002、Corolla 1998-2003、Camry 1998-2003、
Highlander 2001-2003、Land Cruiser 1998-2003、MR2
1998-2002、Sequoia 2000-2002、Sienna 1998-2003、Tacoma
1998-2003、Tundra 2000-200、4-Runner 1998-03、Avalon
1998-03、Camry Solara 2000-2002、Honda-Passport 1998-02、
Isuzu 1998-03、Amigo 1998-03、Rodeo1998-03、Trooper

Toyota Small Plug

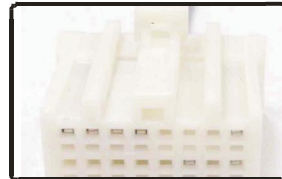


Front of Toyota Car radio Back of Toyota Car radio Toyota Cable Harness

Compatible with:

Vios, Avalon 2003-2005, Corolla 2005, Camry 2005, Camry Solara 2003-2005, Celica 2005, 4Runner 2003-2005, Highlander 2004-2005, Land Cruiser 2003-2005, Matrix 2005-2006, MR2 2003-2005, Sequoia 2003-2005, Sienna 2004-2005, Tacoma 2005-2006, Tundra 2003-2005, Prado 2003-2005, Scion

Mazda

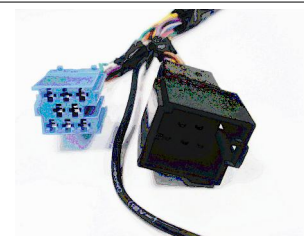
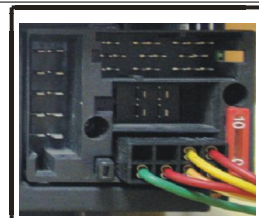


Front of Mazda Car radio Back of Mazda Car radio Mazda Cable Harness

Compatible with:

Mazda3, Mazda5, Mazda6, Mazda323, MazdaRX8, Mazda Premacy

Volkswagen 8pin



Front of VW Car radio Back of VW Car radio VW Cable Harness

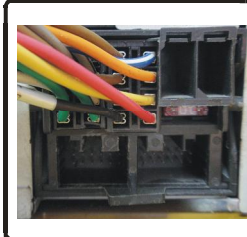
Compatible with:

All 1998 and up Volkswagen factory with a round “scan” button, and the 8-pin connector at the radio.
All 1988 and up Audi “Concert” and “Symphony” radios with 8-pin connector at the radio.

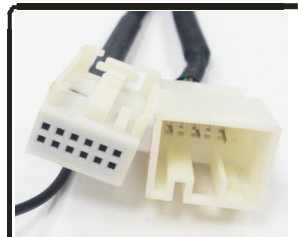
Volkswagen 12pin



Front of VW Car radio



Back of VW Car radio



VW Cable Harness

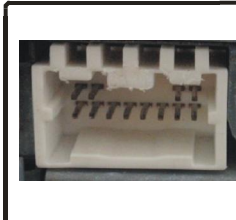
Compatible with:

2006 and up Volkswagen factory with 12-pin connector at the radio.

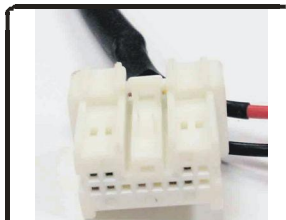
Nissan



Front of Nissan Car radio



Back of Nissan Car radio

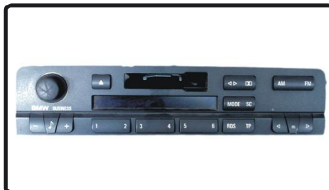


Nissan Cable Harness

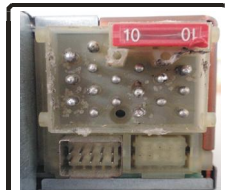
Compatible with:

Nissan factory radio with 12-pin connector at the radio

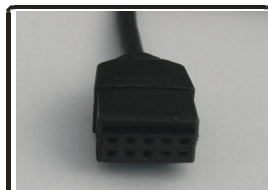
BMW 10pin



Front of BMW Car radio



Back of BMW Car radio

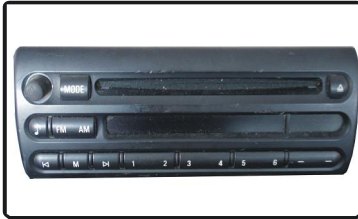


BMW Cable Harness

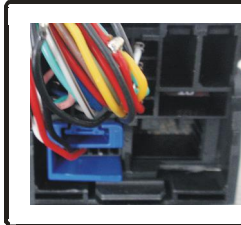
Compatible with:

BMW factory radios with 10-pin connector at the radio

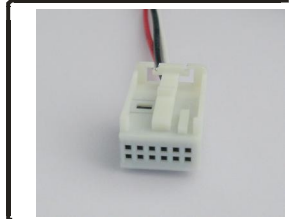
BMW 12pin



Front of BMW Car radio



Back of BMW Car radio



BMW Cable Harness

Compatible with:

BMW factory radios with 12-pin connector at the radio

Hyundai 8pin



Front of Hyundai Car radio



Back of Hyundai Car radio



Hyundai Cable Harness

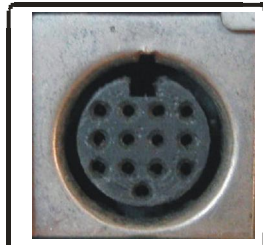
Compatible with:

Elantra, Sonata, Matrix, Coupe, Azera, Equus, Santa Fe, Veracruz, tuscon

Hyundai 13pin



Front of Hyundai Car radio



Back of Hyundai Car radio



Hyundai Cable Harness

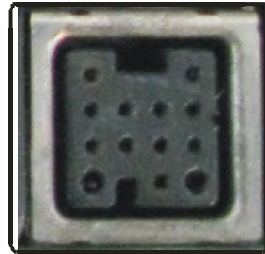
Compatible with:

Elantra, Sonata, Matrix, Coupe, Azera, Equus, Santa Fe, Veracruz, tuscon

Suzuki



Front of Suzuki Car radio



Back of Suzuki Car radio



Suzuki Cable Harness

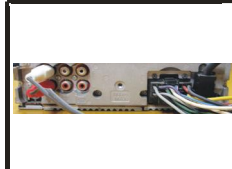
**Compatible with
Swift**

2 After-market Radio

Sony



Front of Sony radio



Back of Sony radio



Sony Cable Harness

Compatible with all of Sony radio with CDC

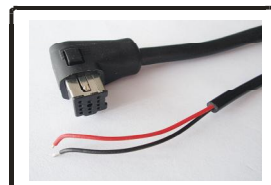
Pioneer



Front of Pioneer radio



Back of Pioneer radio



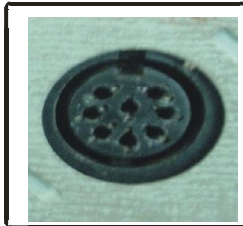
Pioneer Cable Harness

Compatible with all of Pioneer radio with CDC

Alpine(M-bus)



Front of Alpine radio



Back of Alpine radio



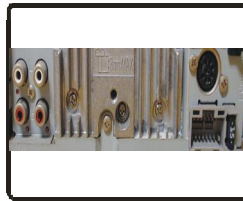
Alpine Cable Harness

Compatible with all of Alpine(M-bus) radio with CDC

Panasonic



Front of Panasonic radio



Back of Panasonic radio



Panasonic Cable Harness

Compatible with all of Panasonic radio with CDC

Clarion



Front of Clarion radio



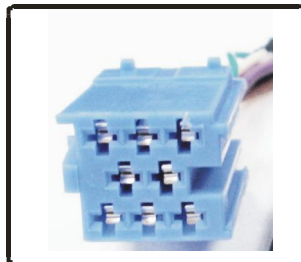
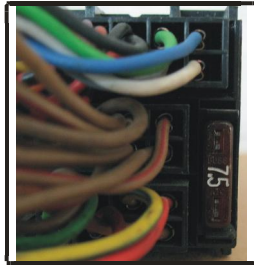
Back of Clarion radio



Clarion Cable Harness

Compatible with all of Clarion radio with CDC

Blaupunkt



Front of Blaupunkt radio Back of Blaupunkt radio Blaupunkt Cable Harness

Compatible with all of Blaupunkt radio with CDC