Delphi RCD510 Video Interface

Installation and user manual



Before installation, verify the vehicle, model year, factory system and product number.

Technical source: Shanghai Shenshun Industrial Co., Ltd.

The supplier states that validation used China-market vehicles. A shared platform or a different regional model name does not confirm fitment in another market.

Technical support | andy-lv@oadot.com

This interface adds navigation and video inputs to the specified factory system. It supports handwriting navigation, navigation control from the factory touchscreen and automatic reversing-trajectory switching. Check the available video inputs against the supplied hardware.

1. Safety precautions

- Use only in 12 V vehicles with negative ground.

- Installation must be carried out by a professional. Do not disassemble or relocate the installed unit without authorization.

- This product is not waterproof. Protect it from water and moisture.

- For a product-quality fault or damage, promptly return the unit to the designated repair provider or dealer.

2. Product features

- One reversing-video input, triggered by the reversing-lamp signal. Where the vehicle has factory OPS, the right-arrow button switches between the camera picture and OPS.

- Hold the original EJECT button to switch to the auxiliary video input. The source mentions DIP control for this input but does not identify the DIP setting.

- One analogue RGB input with composite sync, 400 x 240 resolution. The board installs inside the head unit.

- Use the DIP switches together with the buttons to adjust image position for different RCD510 units.

- Source fitment: China-market Delphi RCD510 units used in Volkswagen, Skoda and SEAT vehicles with a front-loading six-disc CD unit and 6.5-inch screen. Confirm other regional versions with OADOT.

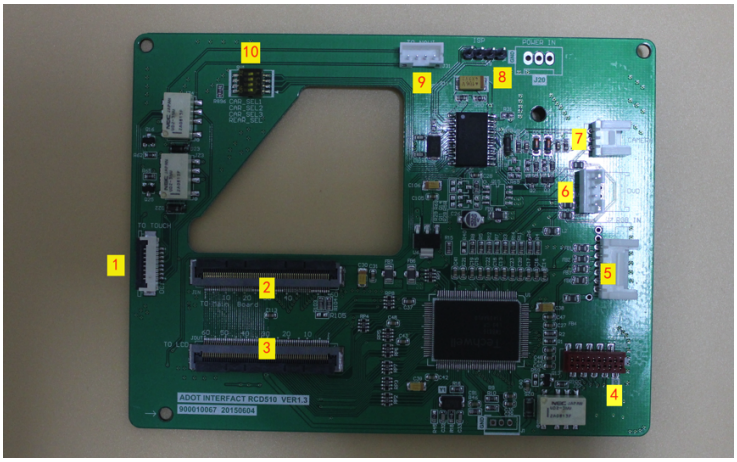
3. Technical specifications

Parameter	Value
Operating / control voltage	DC 8-18 V
Power	1 W
Standard inputs	One reversing-video input; one analogue RGB input
Optional input	One auxiliary-video input, with optional harness

The source introduction lists two auxiliary-video inputs. Its feature list and specifications describe one input with an optional harness. Confirm the supplied configuration before use.

Parameter	Value
Operating / storage temperature	-10 to 70 °C / -20 to 85 °C
Navigation requirement	COM2; 9600 baud; 400 x 240
Weight / dimensions	150 g / 200 x 160 x 58 mm

4. Board and connector identification



Ref.	Function
1	8-pin flip-lock FPC connector for touch adapter
2	60-pin FPC to original main board; use the supplied FPC
3	60-pin FPC to LCD; use the original FPC
4	10-pin keypad connector: original cable to the red front-panel socket; supplied red-plug cable from the red socket on the board reverse to the original main board
5	6-pin analogue RGBS navigation input; default KD900 output pin sequence
6	4-pin external video input; optional cable
7	3-pin reversing input; red lead to the reversing lamp
8	Factory firmware-update connector
9	4-pin touch input for an external navigation unit; default KD900 touch pin sequence
10	Four DIP switches for image position and reversing-camera mode

Position	1	2	3	4
ON	Factory camera	Factory reset	Move right	Move left
OFF	Added camera	Disabled	Disabled	Disabled

Image-position adjustment

Before final assembly, power the unit and check the factory, navigation and reversing pictures. If alignment is incorrect, adjust with DIP switches 2, 3 and 4.

- Only ONE of DIP 2, 3 or 4 may be ON at a time.
- DIP 2 ON for at least three seconds restores the output-image factory settings.
- With DIP 3 ON, use EJECT to move the selected image to the right.
- With DIP 4 ON, use EJECT to move the selected image to the left.

Operation

- Hold EJECT to cycle through the factory interface, added navigation and video. Press EJECT briefly to return to the factory interface.
- Connect the camera to the yellow RCA reversing input. The right-arrow button switches between the added camera and factory OPS, where OPS is fitted.
- External RGB navigation must use 400 x 240 resolution, composite sync and a four-wire resistive touch interface.

5. Installation and connection



Interface board and supplied wiring reference.

- Screen connection: insert the 60-pin FPC in line, connect the 8-pin touch adapter to the screen touch connector, and insert the 10-pin keypad cable in line.
- Navigation connection: use the 6-pin RGBS input and 4-pin resistive-touch connector.
- Video connection: use the 3-pin reversing input and 4-pin auxiliary-video input.

6. Basic troubleshooting

If the following checks do not resolve the issue, contact OADOT or your dealer.

Symptom	Checks
Holding EJECT does not switch the picture	Check the 10-pin keypad lead and FPC connections.
Black screen in reverse	Check the camera connection and confirm that the camera is working.
Blue screen when switching	Check for a connected input with no video signal. Confirm that the video source is operating.

The source troubleshooting table calls the reversing lead "8-pin". The connector list and installation section specify a 3-pin reversing input. Confirm the supplied harness and pin assignments before connecting.

7. Kit contents

Component	Quantity
Delphi interface main board	1
Reversing-input lead	1
Same-side-contact 60-pin FPC adapter	1
8-pin touch adapter	1
10-pin keypad lead	As supplied
Mounting accessory pack	Two sets of plastic standoffs
Auxiliary-video input lead	Optional, 1

Specifications are subject to change without notice.

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