



12v Vehicle power supply.

On power supplies fitted with the 12v DC to DC converter unit the connections to the power supply changes slightly. The vehicle supply input should be connected to the power supply as follows:

1.1 12v or 24v Vehicle supply.

This should be fed in via HD1 Nominally marked as mains input. Connections should be as follows.

 **Cautions** It is extremely important to observe polarity Failure to do so will result in destruction of the DC to DC power supply.

 **Cautions** This version of the power supply is designed to work with negative earth vehicle supplies. It is not suitable for use with vehicles with positive earth.

The unit will work with any vehicle supply voltage between 9v DC and 28v DC:

Positive	HD1-1
Negative	HD1-2
Earth and Negative	HD1-3

The rating of the fuse FS2 should be change to 2A quick blow as opposed to the rating shown on the PCB silkscreen.

Apart from these changes all other connections should be made in accordance with the PSU installation manual.

1.2 Composite Cable connections

Connections via the composite cable from the Mic1-300 to the terminal box are different to the manual for 12v Vehicle operation. Please ensure that the cable is wired us as shown below. If standard wiring is used no damage will be done but patterning will be seen on the video picture:

Terminal Box Connector	Composite cable Wire colour.	Function	Terminal box ID marking.
HD3-1	Red & Green	+15v DC supply	15v AC
HD3-2	Link to HD3-12	0v ground rtn.	GND
HD3-3	White	Rx +	RXB
HD3-4	Yellow	Rx -	RXA
HD3-5	Drain Wire	Gnd	GND
HD3-6	Blue	Tx -	TXA
HD3-7	Violet	Tx +	TXB
HD3-8	No Connection		Gen Lock
HD3-9	No Connection		Gen Gnd.
HD3-10	Coax Core	Video	VIDEO
HD3-11	Coax Screen	Video Return	GND
HD3-12	Link to HD3-2	0v ground rtn.	GND

Where the optional washer drive card is fitted the remaining composite cable cores are connected as follows. If this option is not fitted then the four composite cable cores from Mic1-300 should be tied back and isolated:

Washer drive Connection	Composite cable Wire colour	Function
HD2 pin 1	Black	Tamper Sw
HD2 pin 2	Brown	Tamper Sw Rtn
HD2 pin 3	Orange	Washer select
HD2 pin 4	Grey	0v