

CRYPTON

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Fitting CDSS2 onto CMT500, 1000, 2000 and STP620

INSTALLATION INSTRUCTIONS

**TES1424B
Jan 2003**

IMPORTANT

Every reasonable effort has been made to ensure that information within these Operating Instructions is correct at the time of release, but Crypton cannot accept-responsibility for any errors that may occur.

The information in these Operating Instructions is subject to change without notice, and does not represent a commitment on the part of Crypton.

Service & Warranty

The reliability of this equipment is fully supported by our service agent, with repair workshops and field service engineers to provide a full range of After-Sales Care, including installation, contract maintenance, factory overhaul and emergency repairs on site. Please refer to the page at the end of this manual for full details.

Note:

Your attention is drawn to our Terms & Conditions of Sale, particularly paragraph 2. If a service engineer is called out. under service warranty where, upon inspection and test the equipment is found to be in full working order and no fault found, the user is liable to be charged the cost incurred for this call out. Before calling out an engineer, ensure your equipment is faulty by checking its operation, particularly mains supply and fault codes/self test if applicable.

WARNING:

Do not attempt to operate this equipment unless you have read and understood these instructions.

Instructions for connecting new Signal lead and external Power Supply unit for CMT 500/1000/2000 with DX230.(TES 1424)

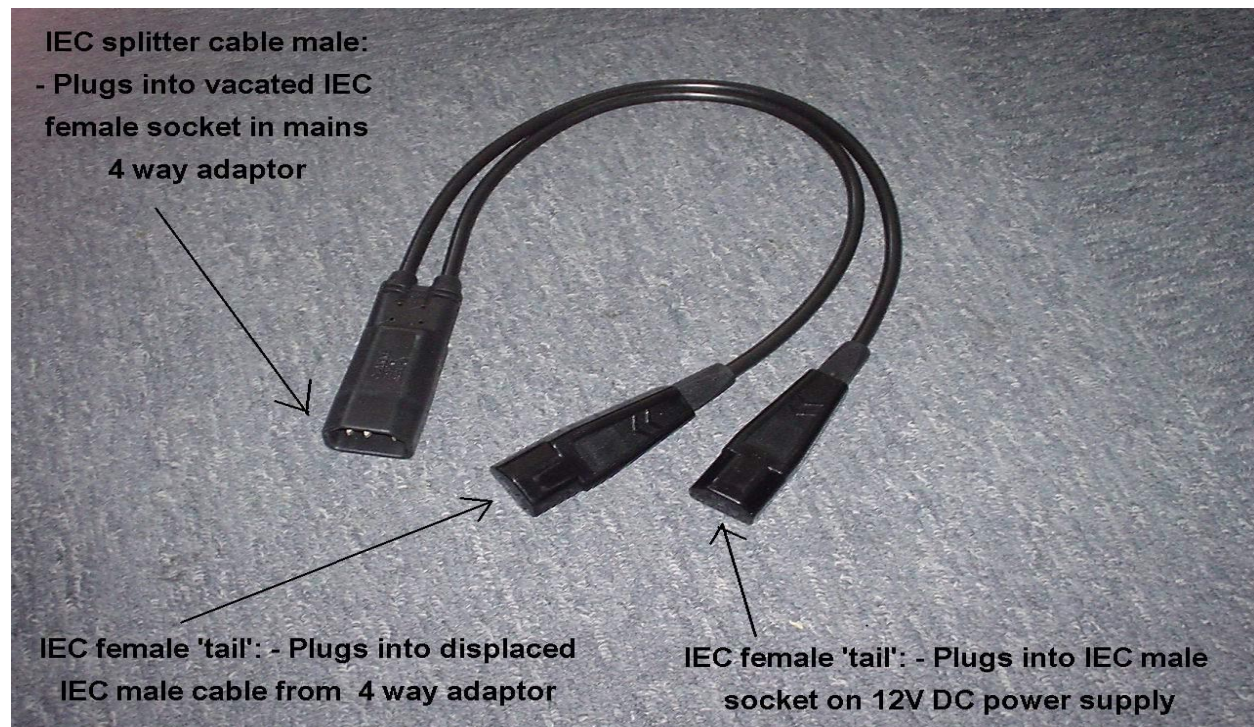
Please shut down and then switch off the Computer, Monitor and all Gas Analyser and Interface units at their respective On/Off switches.

The Mains 230V supply Cable to the whole trolley mounted console unit should be disconnected from the Mains supply.

At the rear of the trolley mounted equipment, there is a back panel plate retained by cross-head screws. This panel should be removed to enable access to the equipment inside.

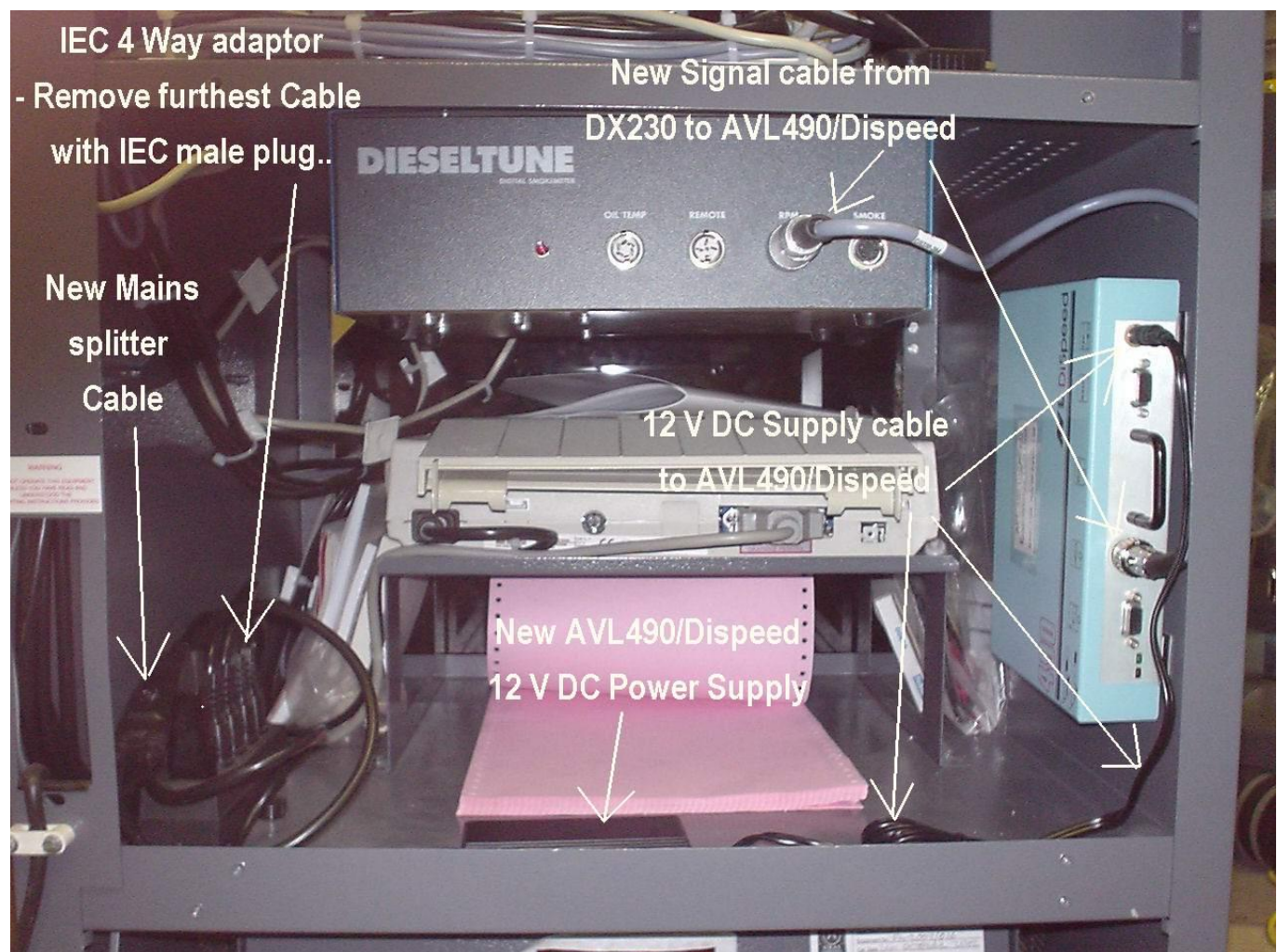
On the right hand inside side wall, there is an AVL 490/ Dispeed mounted with velcro retaining strips. There are two cables connected to the AVL490. One cable is coloured black and is about 8m long and goes to the Acoustic Vibration sensor- this should not be disconnected. The second cable, light Grey in colour, leads from the Dispeed to the rear panel of the DX230 interface Box. This cable should be removed by turning the securing ring of each connector counter clockwise, and then gently pulling the connector out from the respective socket. The Cable should be removed (and returned to Crypton Technology), and replaced with the new Cable supplied (P/No CABLvwww).

The AVL490/Dispeed must also be fitted with a new independent 12V DC Power Supply (provided).



The 4 way IEC adaptor mounted on the left hand side has one input socket (nearest the rear, IEC female cable connector into an IEC male socket) and four female IEC outlets. Remove the IEC male connector from the socket furthest away from the rear, and connect this male socket to one of the two female 'tails' of the Cable splitter. The single Male socket of the cable splitter should be plugged into the vacant outlet in the adaptor. The second female 'tail' should be plugged into the male socket of the new 12V DC AVL 490/Dispeed Power Supply. This Power Supply should be secured with the supplied Velcro to the rear floor of the unit, behind and central to the paper supply, as shown in the picture with the warning lamp of the Power Supply uppermost and visible. From the right hand end of the 12 V DC Power Supply emanates a neatly folded Output cable terminated by a standard DC Connector. Enough Cable should be pulled out to connect this DC connector to the uppermost socket on the AVL 490/Dispeed, which is labelled 12V=.

Surplus Cable should be tidily secured with the supplied Cable ties. Mains cabling should be carefully routed between the 4 way adaptor and the unit sideplate, and secured if required with cable ties.



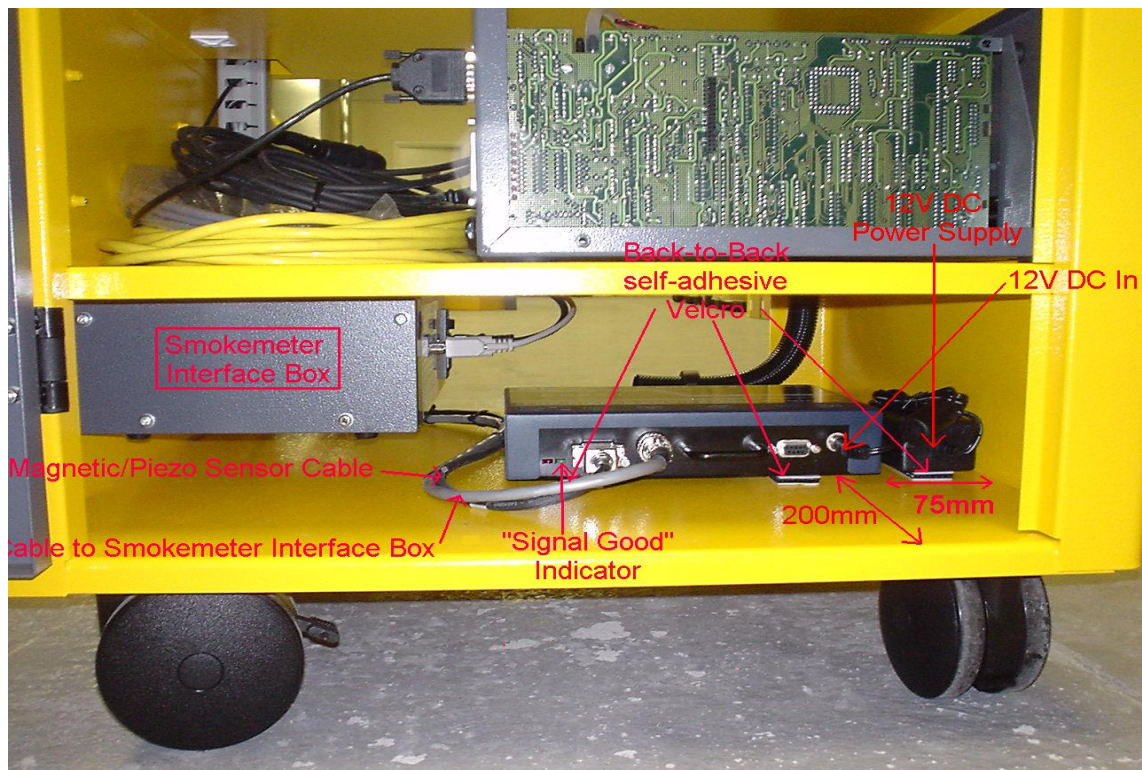
Note the Cable coming out of the Power Supply should point in the direction of the AVL490 Disped : Please refer to Diagram above.

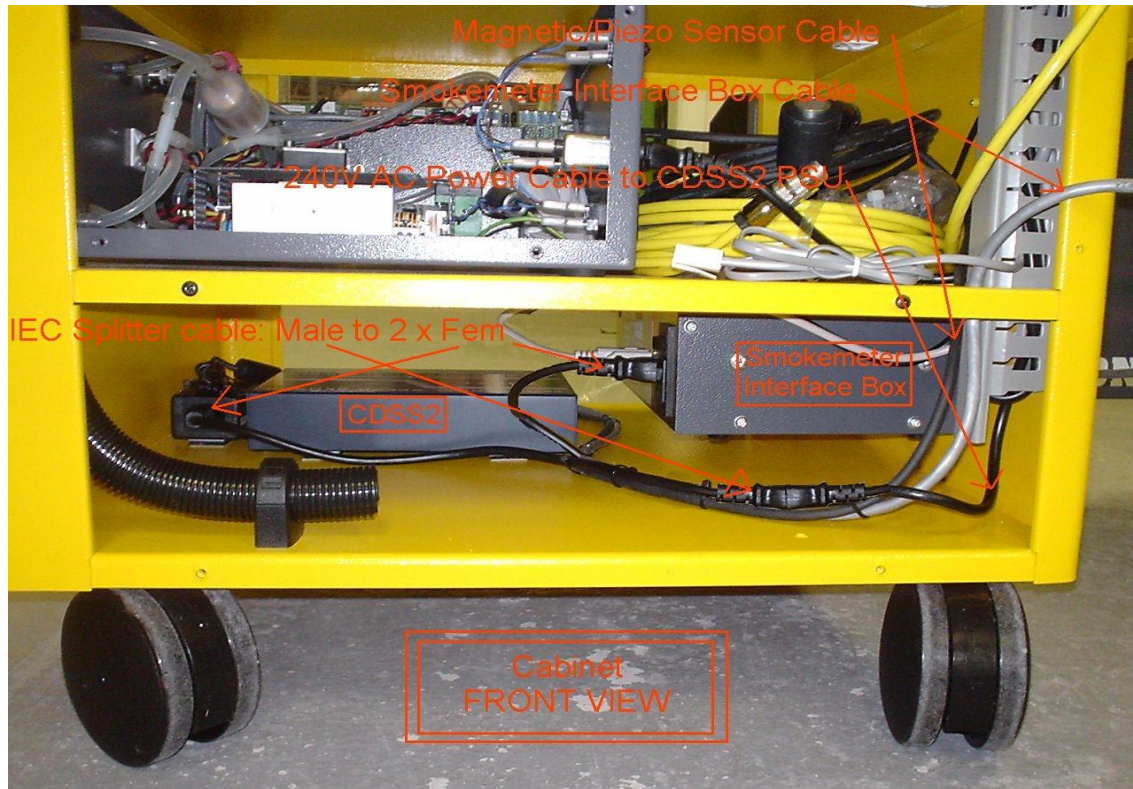
Any surplus Mains Cable should be carefully folded along the bottom lip of the shelf and cable tied together. Likewise with spare 12V cable from the 12V Power Supply to the AVL Disped/490.

Finally, after testing the complete unit and verifying correct operation of all the units, the rear panel should be replaced.

For the STP 620 : The location of the 12V Power Supply is different and the routing of the Signal cable from the CDSS2 to the Interface Box is also more involved. Also a longer 1m cable has been specified for connection of the CDSS2 to the Smokemeter Interface Box. To mount the CDSS2, the rear metal door of the unit is opened, and after affixing self-adhesive Velcro to the base of the CDSS2, it is located in the position shown such that the 12V DC Power Supply can be similarly mounted with Velcro adjacent to the CDSS2, beside the Cabinet wall (as shown) The 12V dc output plug should be connected to the 12V input on the right hand side of the unit (as shown) any spare cable should be neatly wrapped up and cable tied to the top of the power unit.

A typical distance from the front of the CDSS2 connector panel to the front edge of the cabinet would be 200mm /0.2m – the reason for this being to leave space so that a Crypton 'Red Clip' can be fitted to the inductive loop on the CDSS2 if required, such that the rear door will also be able to close properly without damage to the cabling.





The Cables from the CDSS2 to the Smokemeter Interface Box and to the Magnetic/Piezo Sensor should be led as shown in a loop towards the front Right of the Cabinet (as shown) so they can be routed externally through the access hole, the Smokemeter Interface Cable then being connected to the 'Tacho' socket on the front panel, and the Piezo/Magnetic Sensor Cable being neatly coiled up awaiting connection to an engine block as required.

To provide 240V AC power for the CDSS2 Power Supply **and** the Smokemeter Interface Box, the IEC Female Connector that currently plugs into the Interface Box is disconnected, and reconnected to the IEC Male to 2 Female splitter cable as shown, and the 2 'female' Cables have to be connected and fitted as shown in the Picture above, one to the rear of the CDSS2 12V Power Supply, and the second to the rear of the Smokemeter Interface Box

When installation has been completed and the CDSS2 verified for correct operation, then the IEC mains cable, Magnetic/Piezo Sensor Cable and Interface Box Cable can be neatly cable-tied together such that the cables are routed tidily, untwisted and without sharp bends and kinks.

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