



CGP600, CCP600, DSP600, CDP600 GENERAL INSTALLATION INSTRUCTIONS

TES1498D
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IMPORTANT

Every reasonable effort has been made to ensure that information within these Operating Instructions is correct at the time of release, but the company 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 or Dieseltune

Service & Warranty

The reliability of this equipment is fully supported by our service agents, 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.

Software Licence

Further to our general Terms & Conditions of Sale, the software described in these Operating Instructions is furnished under the following Software Licence Agreement:

1. Licence: You may use the program on the machine provided. You may not copy, duplicate or transmit the program in any form, in whole or in part, without the express prior written permission of the company.
2. Term: The licence is effective until terminated. You may terminate the licence by destroying the program together with all copies, or returning the program to the company.
3. The company does not warrant that the program will meet your requirements or that its operation will be uninterrupted or error free.
4. In no event will The company be liable to you for any incidental or consequential damages, including lost profits, business operation and the like, arising out of the use or inability to use this program.
You acknowledge that you have read this Agreement, understand it, and agree to be bound by its provisions.

WARNING:

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

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HEALTH AND SAFETY

1. The equipment is not weatherproof and should not be used outside in rain or snow.
2. The internal circuits and components of the analyser should not be tampered with. No internal parts are operator serviceable.
3. Operators should exercise due caution with regard to the engine fan and associated belts.
4. Always provide ventilation by using an exhaust gas extraction system or by having an adequate supply of fresh air.

Carbon Monoxide (CO) from a vehicle exhaust is a highly poisonous gas. If breathed in, it is absorbed by the blood and will result in greatly slowed reactions and if absorbed in sufficient quantity can be fatal. Published figures show that a concentration of 0.3% CO in the air can be fatal if inhaled for 30 minutes.

5. Before starting an engine, ensure that the gear selector is in neutral or park.
6. Care should be taken with regard to scalding from the cooling system, burns from the exhaust system and electric shocks from the ignition HT system.
7. When disconnecting the fuel system of a hot engine beware of the fire hazard caused by fuel spilling onto manifolds, ignition distributor, etc.
8. Position the mains cable and sampler pipe in such a manner that they do not present a hazard to anyone.
9. The earth lead of the mains supply cable MUST ALWAYS be connected to a good earth point.
10. Operators should not allow themselves to come into contact with water or other similar conductors when using the equipment.
11. Equipment should be sited in an area designated and clearly marked:

'FOR USE BY AUTHORISED PERSONNEL ONLY'

INTRODUCTION

This equipment leaves the factory set for 230V a.c. nominal, single phase 50/60 Hz. mains supply. Where the mains voltage differs from this, it is essential that the equipment is ordered for the specific voltage in your region.

The equipment should be stored and kept in a dry condition.

The trolley is supplied with all main parts (i.e. Computer, Gas Analyser etc.) fitted, with the exception of the Keyboard, Mouse and Monitor. Details for fitting these items are covered later in this manual.

Carefully unpack all items and examine for damage. Check contents against the packing list enclosed for any loss or discrepancy. Report any loss, breakage or discrepancy to the supplier immediately.

IMPORTANT NOTE

Do not disconnect or reconnect any leads between the various parts of the trolley without first SWITCHING OFF the mains supply; this does not include any connections to the vehicle under test.

FITTING THE KEYBOARD AND MOUSE

To fit the Keyboard, Mouse and Monitor follow the procedure detailed below, observing the correct sequence of actions:

1. Remove the back panel as shown in Fig. 1 by unscrewing the 4 earth nib Philips screws. Note the plastic grommet for the monitor cables, this will need to be removed later when fitting the monitor.

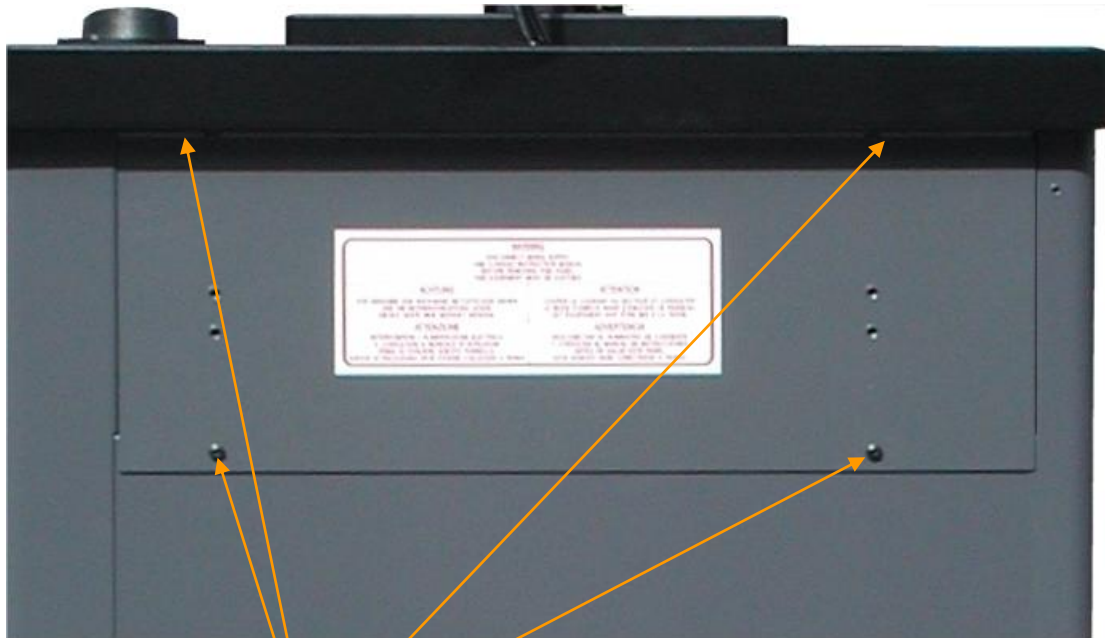


Fig. 1

Unscrew the four earth nib screws and remove the back panel.

2. Place the keyboard and Mouse on the front tray of the trolley. Feed the cables through the holes behind the keyboard and mouse (Fig.2), over the top of the Computer and plug in to the USB connectors on the back of the computer (Fig.3)

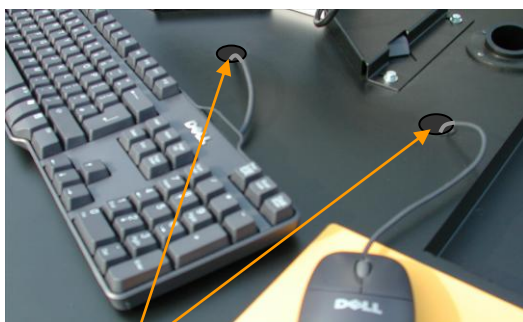


Fig. 2

Keyboard & Mouse
Cable holes

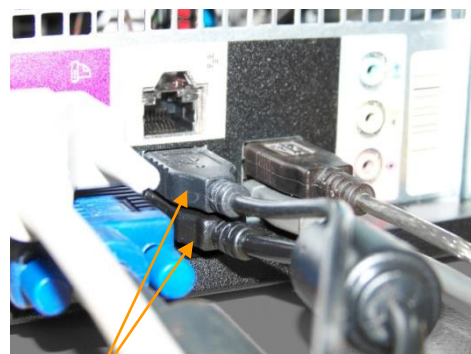


Fig. 3

Keyboard & Mouse
Connectors

FITTING THE MONITOR

3. Remove the four screws securing the Monitor clamp to the top of the trolley. Remove the Monitor Clamp. Assemble the monitor to its stand as detailed with the instructions supplied with the monitor. Place the monitor stand assembly into position on the top plate, cover with the Monitor Clamp and secure using the four screws as shown in Fig. 4a. Fit the monitor signal lead, adjust tilt of screen as required and tighten in position

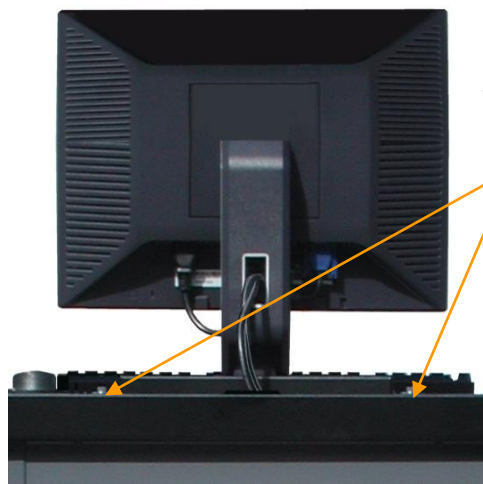


Fig. 4a

Remove screws and securing clamp to position the monitor/stand assembly



Fig. 4b Monitor signal lead

4. Remove the plastic grommet from the hole in the trolley immediately behind the Monitor. Feed the monitor signal lead through the grommet from the top and then down through the hole in the metalwork. The monitor mains lead is already fitted and the free end will be lying with the computer. Feed this up through the metalwork and then through the grommet from the bottom. Replace the grommet.
5. Plug the mains lead into the socket on the back of the Monitor and the signal lead into the 15 way high density 'D' type connector on the computer as shown in Fig. 4b Tighten the screw locks finger tight. Ensure that there is enough slack left on the cables to allow the Monitor to swivel up and down.
6. Bundle the cables neatly into the rear of the unit and replace the back panel.

FITTING THE CABLE HOOKS

Eight hooks are provided for securing cables. Threaded inserts are fitted on each side and the rear of the unit for this purpose. Fit hooks using hardware provided. Alternative pockets (which can be purchased from Crypton) can be added to the sides of the cabinet in place of a pair of cable hooks.

OPTIONAL EQUIPMENT

A number of optional devices may be fitted for use with the MOT Smoke Test for Diesel engines. Please refer to the Software and Hardware operating instructions for details.

DX211-11/DX211-11BT OIL TEMPERATURE PROBE

The Oil Temperature probe holster/recharging station is located on the top panel of the unit towards the right rear. Fig 5a and 5b illustrates how a DX211-11BT wireless probe is inserted into the holster. Note the red LED indicating the unit is charging.



Fig. 5a



Fig. 5b

Note on charging the DX211-11BT Wireless probe

The DX211-11BT (wireless) probe is both switched off and recharged by being inserted into its holster. In order to achieve a long battery service life in this sealed unit, the recharging current is deliberately set at a low level. It is imperative that the unit be returned to the holster immediately after each use. Failure to do this will cause the probe to cease operating during the working day and it will require a continuous, uninterrupted recharging period of 48 hours to fully recover.

The DX211-11 (wired) Oil Temperature probe uses the same holster with the wire connected to a socket on right side panel, shown in Fig. 6. Leave the probe permanently connected and use the hooks on the side of the equipment to stow the cable when the probe is in the holster.

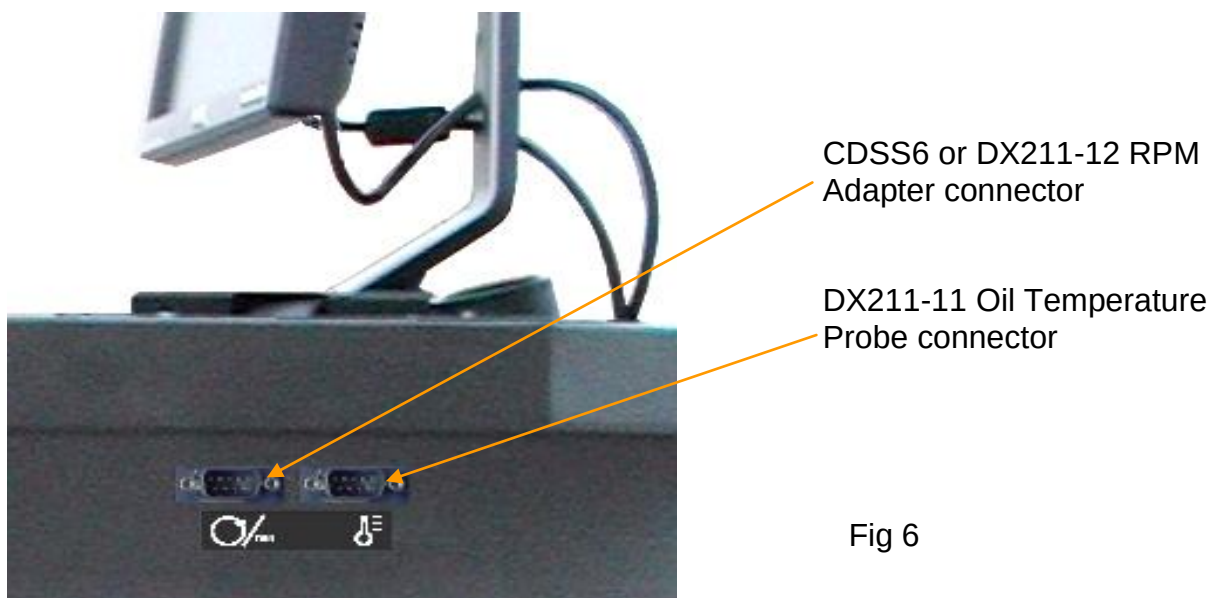


Fig 6

FITTING THE CDSS6/CDSS6BT/DX.211-12 RPM ADAPTER

No special fittings are provided for these RPM adapters. When not in use, it may be hung by its handle on any of the hooks provided. Fig. 6 shows the position of the data connector for the wired unit.

CDSS6/DX.211-12
Data Lead to
connector shown in
Fig. 6



Power & Signal lead to
Vehicle Battery

Fig. 7

FITTING THE DX211-13 REMOTE INDICATOR HANDSET HOLDER

A plastic holster is provided for the DX211-13 Handset. Threaded inserts are fitted to the front upper face of the left hand side of the unit for this purpose. Fit the holster using hardware provided. Figure 8 shows the Handset in its holster.



Fig. 8

SCOPE INPUT

If the scope module is fitted, the signal input connectors are located on the right hand side of the trolley looking from the front.

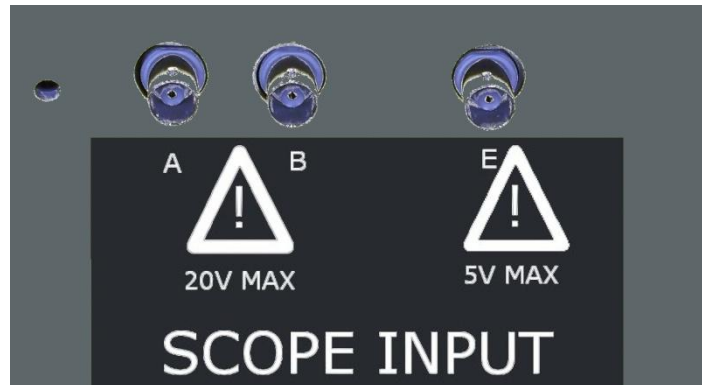


Fig. 9

OPERATION

Before switching on, ensure that the floppy disk drive(s) are empty so that the computer uses the hard disk as its program source.

The trolley is switched ON by a rocker switch situated on the side of the cabinet.

Each time the power is switched on, a 'self-test' routine will be initiated to check important areas of the electronics circuitry. If a fault is detected, a statement will appear on the screen. This exact statement should be passed on to the Service Office (see back of manual), or Agent if overseas, to enable the Service Engineer to recognise the fault before arriving on site. If during normal usage the equipment appears to function abnormally, switch the mains supply off, wait 10 seconds then turn on again to perform a self-test and thereby determine if there is a circuit malfunction.

Switch on using the switch on the side of the cabinet; the mains switches of the individual units (computer, VDU, printer, gas analyser, etc.) should normally be left on.

Note 1:

It is good practice to maintain computer equipment at an even temperature. If your garage is subject to large temperature variations it is recommended that you leave the unit ON at all times. Turn the VDU off at night using its own mains switch as this item, in common with all picture tubes, has a limited life. Continuous power gives two advantages - less thermal cycling of the computer and a faster gas module warm-up at low ambient temperatures.

Note 2:

ALWAYS exit the application program you are running and return to the main menu screen before switching the equipment off (use the shut down icon on the desktop screen). This will ensure that all 'Windows' files are correctly closed and that the equipment programs are in a tidy condition before powering down.

OPERATING SYSTEM

After switch on, the computer will perform the start up sequence and the Windows® XP desktop will be displayed as shown below.

The 600 Series is controlled by means of 'icons' on the desktop. Each application is accessed by double clicking on the individual icon for that application. The desktop will only show the programs associated with the particular model you have purchased and may not display all the programs shown below.



SHUT DOWN

Double click to shut the system down. This will take a short period of time during which the 'windows is shutting down' message will be displayed. When the computer has shut down it is safe to turn the power off.



PETROL EXHAUST ANALYSIS (UK Models only)

Please refer to operating instructions (supplied) for further details on how to use this program. For details of connections and operation of the gas analyser, please refer to Emission Analyser operating instructions (supplied).

N.B. Do not run this program when the Diesel Exhaust Analysis program is running.

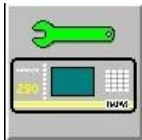
**DIESEL EXHAUST ANALYSIS (UK models only)**

Please refer to Software and Hardware operating instructions for the smokemeter for further details.

N.B. Do not run this program when the Petrol Exhaust Analysis program is running.

**EXHAUST EMISSIONS ANALYSIS (Non UK models only)**

Launches a combined Petrol and Diesel control application. Refer to the Software operating instructions for further details.

**EMISSION ANALYSER SETUP**

Causes the host computer to act as a remote terminal for the gas analyser allowing full control of the analyser through the computer keyboard. For details of connections and operation please refer to Emission Analyser operating instructions (supplied).

**CODEx**

Crypton On-board Diagnostics Expert. For details of connections and operation please refer to TES 1341, Getting Started with CODES (supplied).

**TOOLBOX**

Allows the host computer to perform automated and manual tests control using CAS2, Crypton Automotive Oscilloscope, and DMM1 or DMM2 Digital Multimeters. For details of connections and operation please refer to TES 1467 operating instructions (supplied).

**INFO2000**

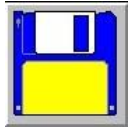
Vehicle Workshop Information. For details of operation please refer to the Help built into the application.

**CRYPTON WEBPAGE**

For machines with a modem (if purchased) and connection to a telephone line. This icon will access the Crypton website via the internet.

**OPERATORS MANUALS**

Opens a folder containing equipment operators' manuals in Adobe Portable Document Format. Clicking on any manual will open it in Adobe Acrobat Reader.

**INSTALL/UPDATE SOFTWARE**

Causes the host computer to run a program called Install.exe or Setup.exe on a disk placed in the floppy disk drive. Place the Application Installation Disk (Disk 1 if there is more than one disk in the set) in the disk drive then double click on the icon

Note:

The disk must be placed in the drive BEFORE the option is selected or an error message will be displayed. When installation is complete the new program icon will then appear on the Desktop.

Application software supplied on CD-ROM will automatically begin the install process when inserted into the CD-ROM drive.

IMPORTANT: KEEP ALL ORIGINAL DISKS FOR FUTURE USE. A PROGRAM MAY ONLY BE REMOVED OR UPDATED IF THE ORIGINAL DISK(S) IS AVAILABLE!

DISK INFORMATION

INSERTING A FLOPPY DISK

Additional software packs chosen for use with the unit will be accompanied by an application manual. This should be unpacked and put into the application section of this binder.

Carefully unpack the programme disk and slide the disk fully into the disk entry slot with the disk label uppermost. When correctly inserted the disk will 'click' downward and lock in the holder. At the same time the release button will move outward. To remove the disk, press the release button underneath the disk drive slot and slide out the disk.

DISK WRITE PROTECT

A small slide switch at the front corner of the disk can be moved to one of two positions. These are READ WRITE or WRITE PROTECT. A small window is CLOSED when the switch is in the READ WRITE mode and OPEN when in the WRITE PROTECT mode.

Application Programme Disks should normally be set to READ WRITE mode as data has to be written to the disk occasionally.

Vehicle Data Disks should normally be set to WRITE PROTECT mode to prevent accidentally over-writing any vehicle data.

SAFE DISK HANDLING

Once programmed, the protected floppy disk and CR-ROM will give trouble-free use provided that reasonable care is taken in handling and general usage.

1. Ensure that the floppy disk is not placed close to strong magnetic fields.
2. Do not expose the disk or CD-ROM to excessive high or low temperatures, e.g. do not leave in direct sunlight.
3. Do not leave the disk or CD-ROM in a wet environment.
4. Do not allow the disk or CD-ROM to lie in an exposed position where it can collect dust.
5. Keep the disk as clean as possible. Avoid touching the reading surfaces of the disk or CD-ROM.

AFTER SALES SERVICE

Apart from the routine maintenance and adjustments stipulated in this manual the equipment must not be tampered with in any way. All further servicing must be carried out only by an engineer from an Authorised Agent. Failure to observe these conditions will invalidate the Guarantee.

On-Site Service / Overhaul / Spare Parts

If you require a Service Engineer to attend ON SITE, either due to an equipment fault, or for machine calibration, or if the equipment covered by this manual requires to be sent back for factory overhaul, or if you need spare parts, please contact our Product Support Helpline at the following number.

Tel: +44(0)844 665 7610 Fax: +44(0)844 665 7604

Overseas

Service abroad is provided by the agent from whom your equipment was purchased.

Technical Information

Crypton provide information and contracts covering:

Car Data, Fault Code Information, Diagnostic Information, Software Support Contracts, Software Updates & Accessories.



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