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ECU Software for Machine System and Hydraulic Function Control

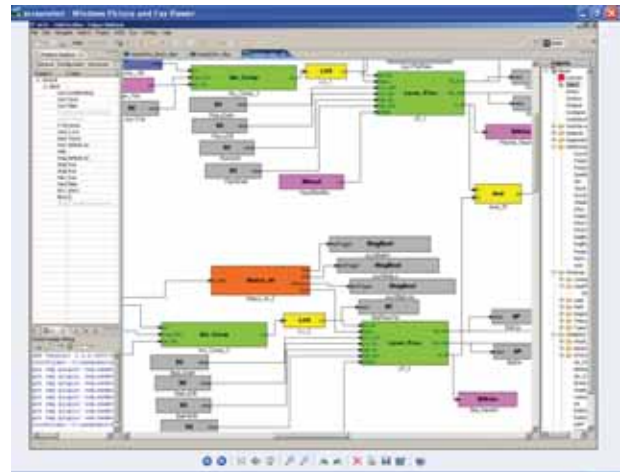
Caterpillar Composer® Software is the ECU programming tool sold by HydraForce. Both software and support are available now. The software is copyright protected and regulated through Caterpillar Electronics. It is available in two forms:

1) **CAT Composer Software Engineer®** (part no. 4100001) is the complete software package which includes both program development and diagnostic capabilities. This tool has a software key that is enabled via connection to the internet. The user can check-out the license key from the internet for a period of two weeks to allow for onsite development work. After the first year, the customer pays a yearly maintenance fee to keep the license active.

2) **CAT Composer Service Technician®** (part no. 4100007) is the diagnostics program which allows limited adjustment but no program modification capability. This is a stand-alone tool. It does not require a software key. The user simply needs to register the PC serial number with the license server.

Composer Software is a function block diagram development tool. Programs are developed in stages, using pick-and-drop Windows-type boxes which can be individually opened into text boxes for detailed specifications, logic structures, calculations, etc.

- First, each component in the system must be specified with its input/output parameters.
- Second, the links between inputs and outputs are established.
- Finally the logic structure and mathematical relationships are defined within the programming tool.



Training is required in order to use the software tool, and personnel selected for training must be experienced in system configuration and engineering. While the *Composer* interface operates in a similar fashion to other MS Windows® based software, the tool is not suitable for casual users. The training schedule is driven by request.

The software is PC-operated and is connected to the system using a communications adapter (part no. 4000719) which communicates through the CAN bus. A compact, lower-function communications adapter (part no. 4000805) is also available for field service and support.

**For additional information
please contact your HydraForce representative.**

HYDRAFORCE, INC.

500 Barclay Blvd. • Lincolnshire, IL 60069 USA
Ph: 847 793 2300 • Fx: 847 793 0086
Web: www.hydraforce.com • E-Mail: sales@hydraforce.com
ISO 9001 & QS 9000 • Member: National Fluid Power Assn.

HYDRAFORCE HYDRAULICS, LTD.

St. Stephens Street • Birmingham B6 4RG England
Ph: 0121 333 1800 • Fx: 0121 333 1810
Web: www.hydraforce.com • E-Mail: sales@hydraforce.com
ISO 9001 & ISO 14001 • Member: British Fluid Power Assn.