



1

- Electronic Control Unit (ECU) also called "controller"
- Matches hydraulic horsepower to engine horsepower
- Receives, processes, and sends signals
- Warns of machine problems
- Varies pump flow rates
- Provides diagnostics

INTRODUCTION

This presentation introduces the Electronic Control Unit (ECU) used on the Caterpillar 320 and 330 Hydraulic Excavators. These ECUs are referred to as "controllers" because they match hydraulic horsepower to engine horsepower by controlling engine rpm.

The controller receives input signals from the engine, the hydraulic system and the operator. As operating conditions change, the controller sends output signals to change engine speed, warn the operator of potential problems and to vary the hydraulic pump flow rate.

This presentation will explain the major differences between the 320/330 controller and those used on the "V" series hydraulic excavators. The ways in which this controller simplifies machine operation and diagnostics for both operators and servicemen will also be discussed.



- Controller located inside the cab
- Totally sealed unit

- 3 LED's (green) for engine diagnostics



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Component Location and Function

The controller is located in an outside compartment above and behind the battery box. A panel must be removed to access the controller. The controller is a totally sealed unit like the transmission controls for Caterpillar Off-highway Trucks and Wheel Tractor-Scrapers. The only time when removal of the compartment cover will be necessary is when the monitor panel on the operator's console in the cab shows the controller fault symbol or when the diagnostic error codes indicate that the three diagnostic Light Emitting Diodes (LED's - arrow) need to be checked. The fault symbols and error codes will be discussed in detail later in this presentation.

Caterpillar 330 Service Guide

Wenbin Ji



Caterpillar 330 Service Guide:

Family Practice Guidelines Jill C. Cash, 2023-01-30 Praise for earlier editions This is a wonderful book for both novice and experienced physician assistants and nurse practitioners This latest edition will see frequent use in your daily practice Score 100 5 stars Doody's Medical Reviews This textbook provides comprehensive coverage of primary care disorders in an easy to read format and contains invaluable step by step instructions for evaluating and managing primary care patients It belongs in every NP and PA's reference library I highly recommend this wonderful textbook Maria T Leik MSN FNP BC ANP BC GNP BC President National ARNP Services Inc This core nursing resource has long served as an essential text for thousands of NP students and as a valued clinical reference for family practice and primary care clinicians The sixth edition continues to provide current practice guidelines and professional standards of care across the life span with the addition of updated information in all chapters updated patient teaching guides and charts and new charts featuring enhanced readability The book provides new content on COVID 19 treatment and vaccines and new guidelines for dermatology including photos respiratory disease cardiovascular disease genitourinary considerations neurologic conditions and infectious diseases Offering succinct and practical counsel the book features detailed step by step instructions for physical examinations and diagnostic testing information on health promotion guidelines of care dietary information common procedures and patient resources Chapters are organized by body system with disorders alphabetized for ease of reference Client Teaching Guides available in print and digital format perform double duty as both patient handouts and concise study tools Consistent guidelines for more than 275 disorders facilitate ease of use and Clinical Pearls highlight key information In addition website links are incorporated throughout for easy access to additional information New to the Sixth Edition Updated information in all chapters including new clinical content for each body system New tables charts and algorithms Updated CDC guidelines on health maintenance and immunization schedules New dermatology guidelines including color photos of skin rashes disorders Updated guidelines for heart failure and hypertension Focused guidelines for the management of asthma Updated management of urinary tract infections erectile dysfunction and premature ejaculation Key updates for stroke management Current CDC guidelines for management of COVID 19 Key Features Presents consistent guidelines for over 275 disorders providing quick access to information Highlights key considerations for practice Addresses care points for pediatric pregnant and geriatric patients Includes Client Teaching Guides serving as both patient take home teaching supplements and study guides for students [The CQ Press Guide to Urban Politics and Policy in the United States](#) Christine Kelleher Palus, Richardson Dilworth, 2016-02-11 The CQ Press Guide to Urban Politics and Policy in the United States will bring the CQ Press reference guide approach to topics in urban politics and policy in the United States If the old adage that all politics is local is even partially true then cities are important centers for political activity and for the delivery of public goods and services U S cities are diverse in terms of their political and economic development demographic makeup

governance structures and public policies Yet there are some durable patterns across American cities too Despite differences in governance and or geographic size most cities face similar challenges in the management of public finances the administration of public safety and education And all U S cities have a similar legal status within the federal system This reference guide will help students understand how American cities from old to new have developed over time Part I how the various city governance structures allocate power across city officials and agencies Part II how civic and social forces interact with the organs of city government and organize to win control over these organs and or their policy outputs Part III and what patterns of public goods and services cities produce for their residents Part IV The thematic and narrative structure allows students to dip into a topic in urban politics for deeper historical and comparative context than would be possible in either an A to Z encyclopedia entry or in an urban studies course text FEATURES Approximately 40 chapters organized in major thematic parts in one volume available in both print and electronic formats Front matter includes an Introduction by the Editors along with biographical backgrounds about the Editors and the Contributing Authors Back matter includes a compilation of relevant topical data or tabular presentation of major historical developments population grown size of city budgets etc or historical figures e g mayors a bibliographic essay and a detailed index Sidebars are provided throughout and chapters conclude with References Further Readings and Cross References to related chapters as links in the e version This Guide is a valuable reference on the topics in urban politics and policy in the United States The thematic and narrative structure allows researchers to dip into a topic in urban politics for a deeper historical and comparative context than would be possible in either an A to Z encyclopedia entry or in an urban studies course text

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Willing's Press Guide ,1998 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A **Readers' Guide to Periodical Literature** ,1925

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