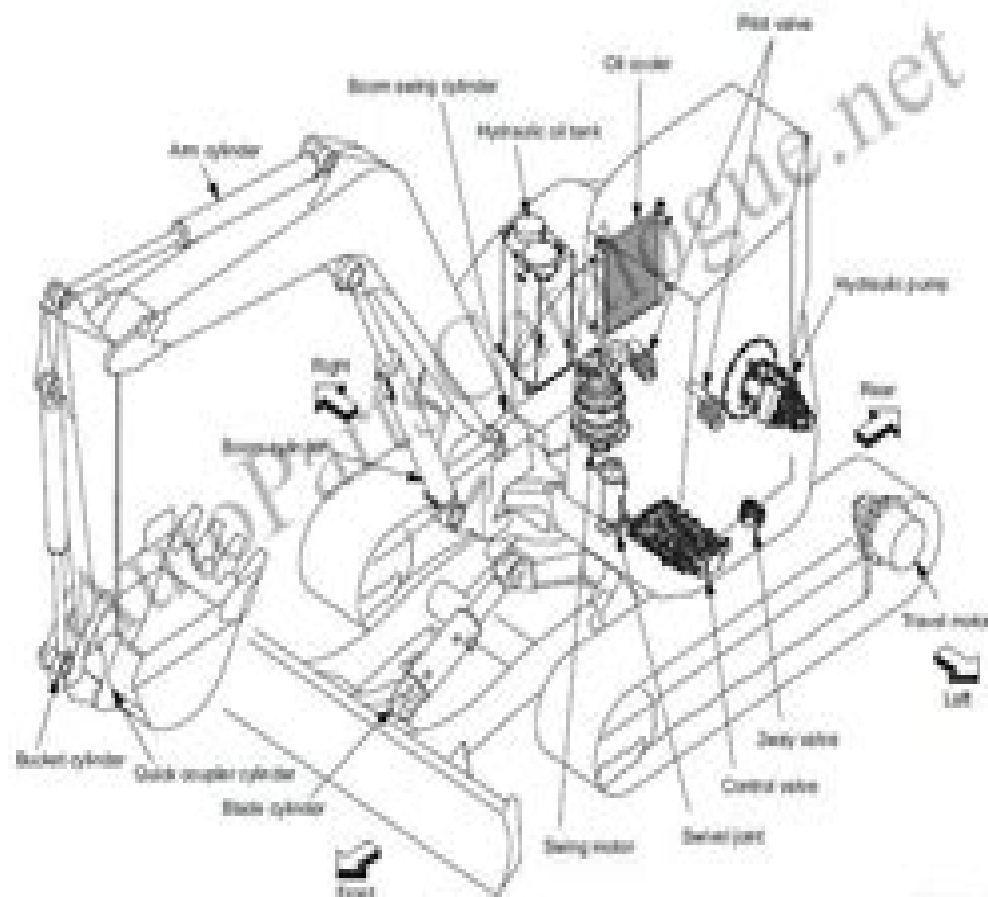


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The hydraulic system consists of an engine, variable displacement piston pumps, gear pumps, a control valve, a boom cylinder, an arm cylinder, a bucket cylinder, a boom swing cylinder, a blade cylinder, a quick coupler cylinder, a swing motor, a swivel joint, two travel motors, 2 way valve and a hydraulic oil tank. The oil discharged from the piston pumps and that from the gear pump flow to the actuators through the control valve.

The hydraulic pilot control system comprises a pilot pump, a line filter, a cut-off valve, left and right pilot valves, a blade pilot valve, a boom swing pilot valve. The oil discharged from the pilot pump flows into the pilot ports of the control valve through the line filter, the cut-off valve, the pilot valves and 2 way valve to control the valve spool movement in proportion to the pressure of the port.



Heavy Equipment Service Manual

Herbert Lownds Nichols



Heavy Equipment Service Manual:

Heavy Equipment Operation and Maintenance Manual Ernesto A. Guzman, 2023-10-31 Starting from the purchase of heavy equipment and following through to the end of its economic life this manual explains how to efficiently maintain and operate different types of heavy equipment Assigning heavy equipment to different projects and utilizing them in varied systems is a large part of construction operation ensuring everything is monitored consistently and maintained accordingly is essential This book aids engineers in facilitating straightforward consistent reporting systems and cost efficient equipment use This is particularly of note to the construction industry Features Enables engineers to save time and money on maintenance costs and maximize the availability of the heavy equipment Provides comprehensive coverage of methods and procedures for heavy equipment management Provides charts for practical use by engineers in the field e g mapping out a maintenance schedule Includes chapters on maintenance and field operations organization including safety and security organization This book will be of interest to construction engineers plant engineers mechanical engineers maintenance plant and field engineers

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