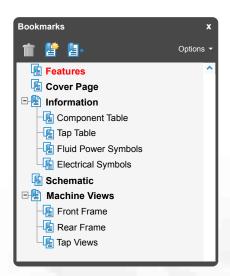
INTERACTIVE SCHEMATIC





This document is best viewed at a screen resolution of 1024 X 768.

To set your screen resolution do the following:

RIGHT CLICK on the DESKTOP.

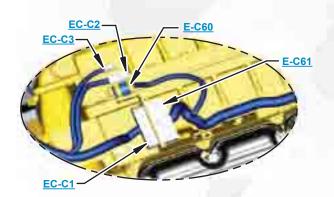
Select **PROPERTIES**.

CLICK the **SETTINGS TAB**.

MOVE THE SLIDER under SCREEN RESOLUTION until it shows 1024 X 768.

CLICK OK to apply the resolution.

The Bookmarks panel will allow you to quickly navigate to points of interest.



Click on any text that is BLUE and underlined. These are hyperlinks that can be used to navigate the schematic and machine views.

VIEW ALL CALLOUTS

When only one callout is showing on a machine view this button will make all of the callouts visible. This button is located in the top right corner of every machine view page.

	HOTKEYS (Keyboard Shortcuts)					
	FUNCTION	KEYS				
+	Zoom In	"CTRL" / "+"				
	Zoom Out	"CTRL" / "-"				
	Fit to Page	"CTRL" / "0" (zero)				
Sun.	Hand Tool	"SPACEBAR" (hold down)				
	Find	"CTRL" / "F"				





Schematic

320D and 320D L Excavator Hydraulic System

320D: 320D L: MDE1-UP JPD1-UP A6F1-UP A8F1-UP FAL1-UP A9F1-UP KLM1-UP KGF1-UP MGG1-UP PCM1-UP TDH1-UP KHN1-UP **DHK1-UP BZP1-UP GDP1-UP** CXY1-UP

JFZ1-UP JGZ1-UP KTF1-UP

COMPONENT LOCATION



Description	Part Number	Machine Location	Schematic Location
Accumulator GP	164-6981	<u>1</u>	<u>A-4</u>
Cylinder GP - Boom	NOTE A	<u>2</u>	<u>E-2</u>
Cylinder GP - Bucket	NOTE A	<u>3</u>	<u>E-2</u>
Cylinder GP - Stick	NOTE A	<u>4</u>	<u>E-7</u>
Filter GP - Pilot (Hydraulic Oil)	158-8987	<u>5</u>	<u>A-4</u>
Filter GP - Oil (Hydraulic Return)	188-4140	<u>6</u>	<u>A-6</u>
Filter GP - Oil (Hydraulic, Case Drain)	126-2075	<u>7</u>	<u>A-6</u>
Manifold GP - Control (Pilot Oil)	215-5037	<u>8</u>	<u>A-5</u>
Motor GP - Swing	158-8986	<u>9</u>	<u>E-5</u>
Motor GP - Travel (Left)	209-5992	<u>10</u>	<u>E-5</u>
Motor GP - Travel (Right)	209-5992	<u>11</u>	<u>E-4</u>
Pump GP - Piston (Main)	272-6955	<u>12</u>	<u>A-2</u>
Swivel GP	234-4440	<u>13</u>	<u>D-4</u>
Valve GP - Check (Oil Cooler Bypass)	201-9329	<u>14</u>	<u>A-7</u>
Valve GP - Load Control (Boom)	255-5683	<u>15</u>	<u>C-2</u>
Valve GP - Load Control (Stick)	255-5680	<u>16</u>	<u>C-5</u>
Valve GP - Main Control	259-7464	<u>17</u>	<u>C-2</u>
Valve GP - Pilot (Joystick, LH)	270-5951	<u>18</u>	<u>C-7</u>
Valve GP - Pilot (Joystick, RH)	270-5952	<u>19</u>	<u>C-6</u>
Valve GP - Pilot (Travel)	270-5947	<u>20</u>	<u>D-7</u>
Valve GP - Pressure Reducing (Boom, Swing Priority)	232-4102	<u>21</u>	<u>A-4</u>
Valve GP - Shuttle 1	185-0462	<u>22</u>	<u>B-7</u>
Valve GP - Shuttle 2	259-7732	<u>23</u>	<u>B-3</u>
Valve GP - Swing Cushion	158-9085	<u>24</u>	<u>D-5</u>
Valve GP - Travel Counterbalance (Left)	137-3718	<u>25</u>	<u>D-5</u>
Valve GP - Travel Counterbalance (Right)	137-3718	<u>26</u>	<u>D-4</u>

Note A: Refer to Parts Manual for your specific machine.

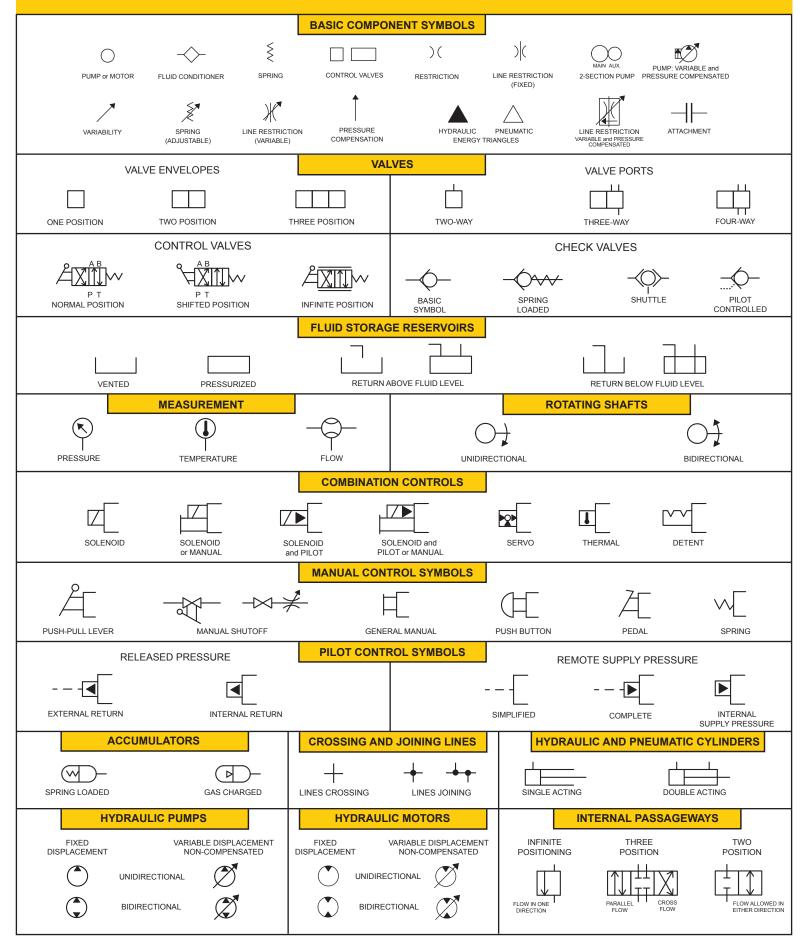
TAP LOCATION



Tap Number	Description	Schematic Location
AA	Pilot Filter Pressure Test Port	<u>A-4</u>
BB	Idler Pump Pressure Test Port	<u>B-3</u>
CC	Drive Pump Pressure Test Port	<u>A-3</u>
DD	Power Shift Pressure Test Port	<u>A-2</u>
SOS	Hydraulic Oil Sampling Port	<u>A-3</u>

FLUID POWER SYMBOLS





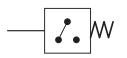
ELECTRICAL SYMBOLS



Hydraulic Symbols (Electrical)



Transducer (Fluid)



Pressure Switch



Transducer (Gas / Air)



Pressure Switch (Adjustable)



Generator



Temperature Switch



Electric Motor



Electrical Wire

Electrical Symbols (Electrical)



Pressure Symbol



Temperature Symbol



Level Symbol



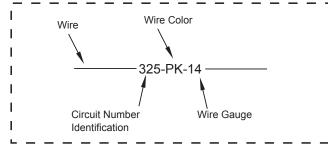
Flow Symbol

Wire Number Identification Codes

Electrical Schematic Example

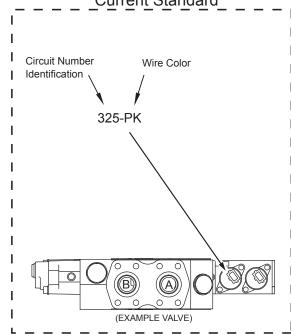
Current Standard Harness identification code This example indicates wire 135 in harness "AG". Wire 325-AG135 PK-14 Circuit Identification Number Wire Color Wire Gauge

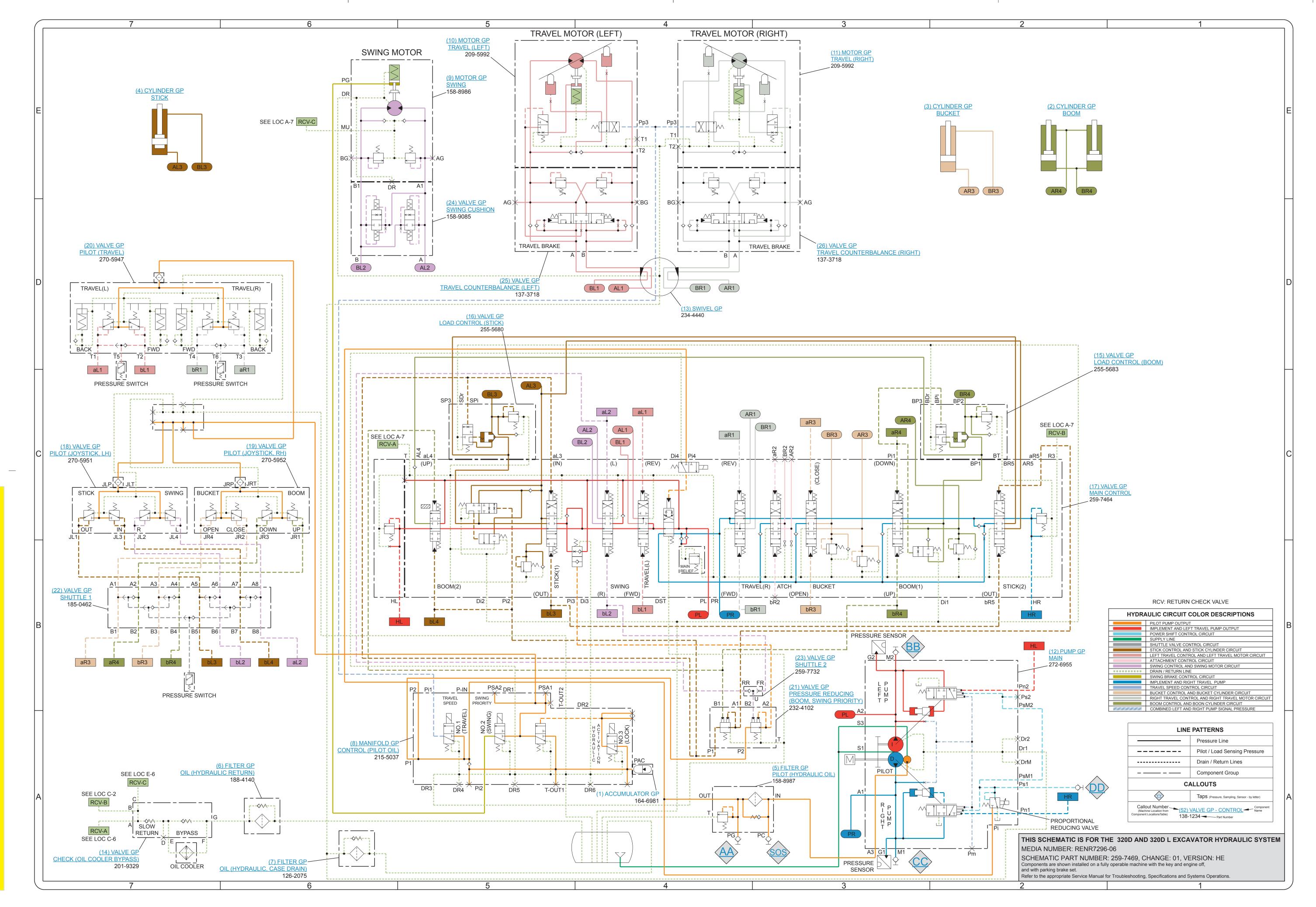
Previous Standard



Hydraulic Schematic Example

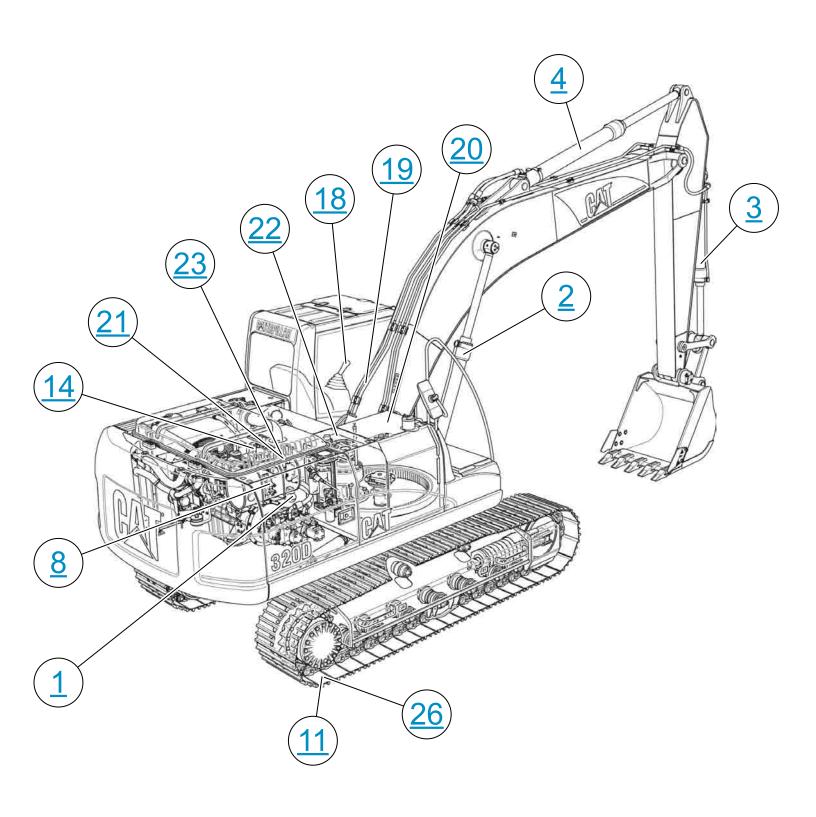
Current Standard



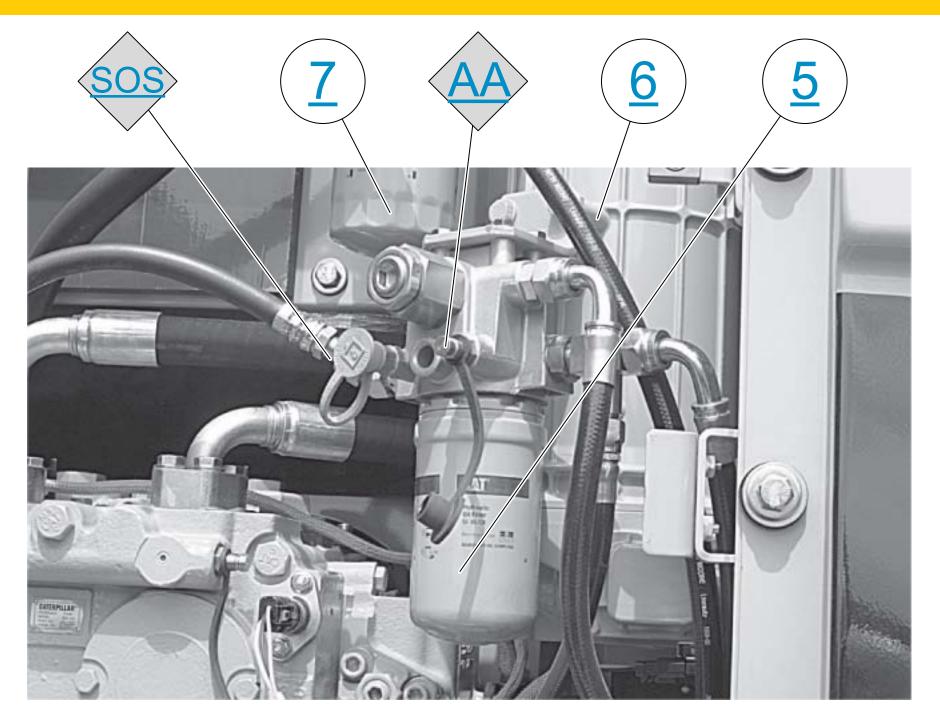


MACHINE COMPONENT LOCATIONS



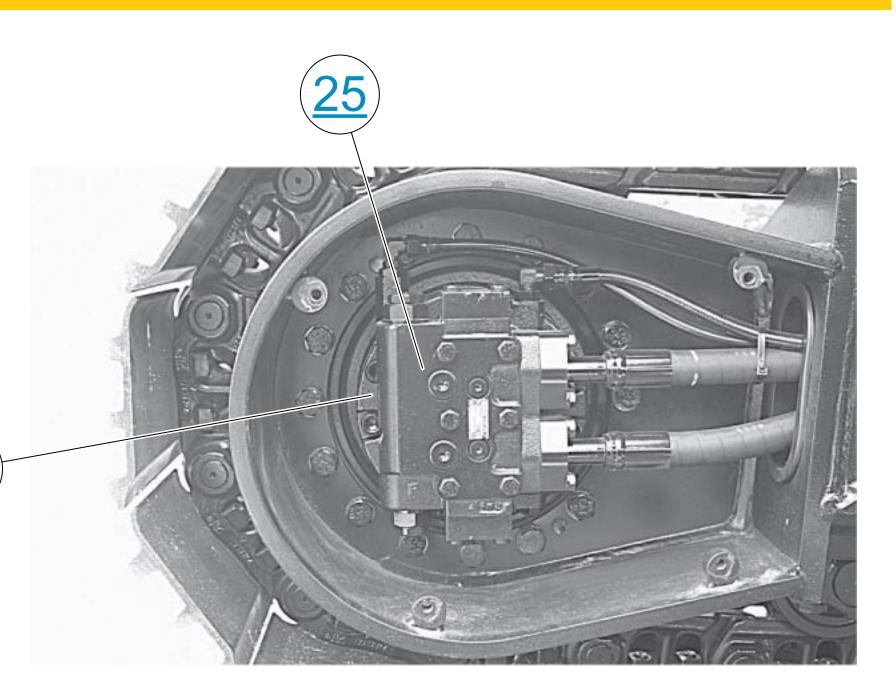






MOTOR GP - PISTON (TRAVEL)

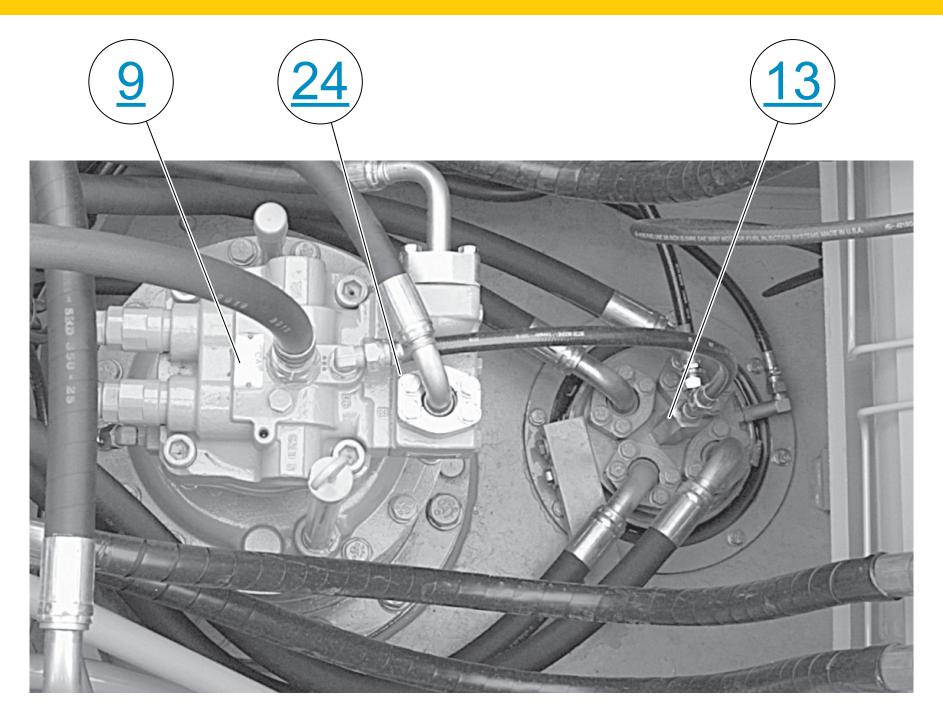




10

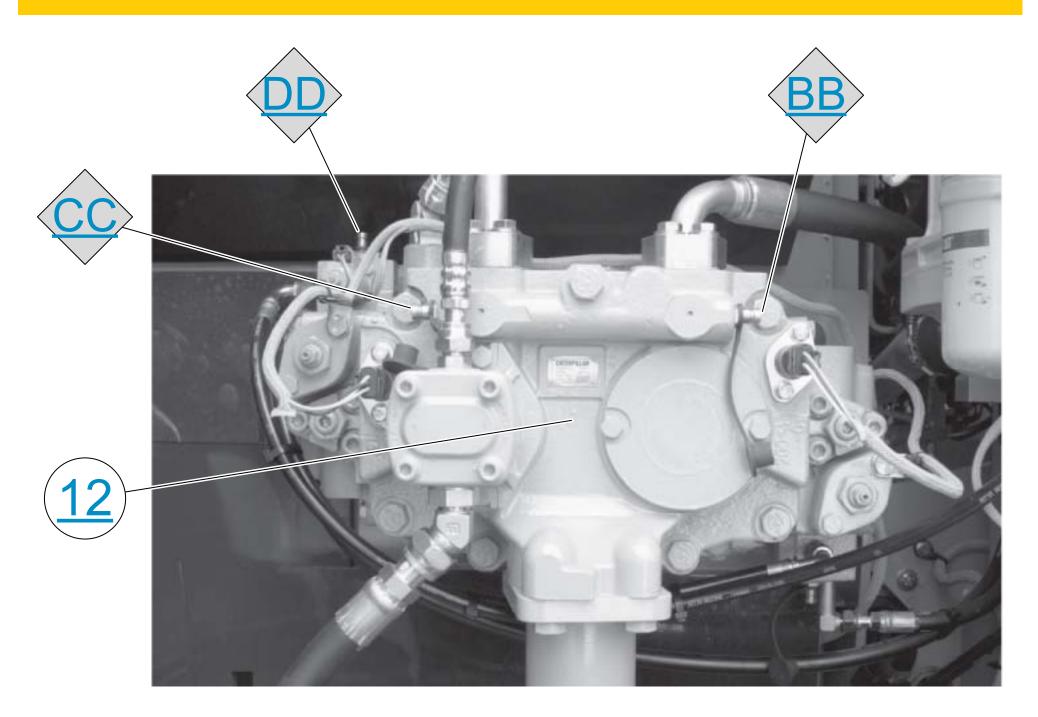
MOTOR GP - SWING AND SWIVEL





PUMP GP - PISTON (MAIN)

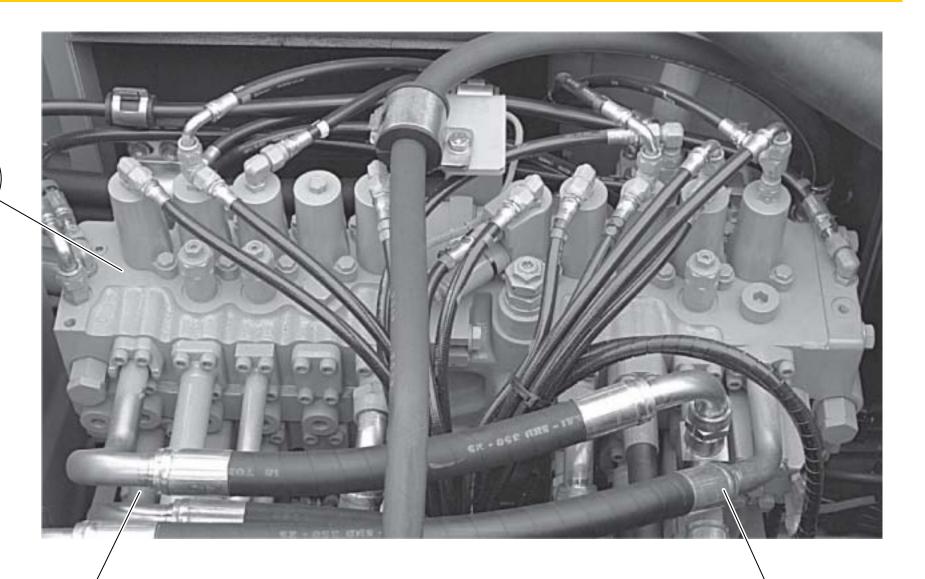




VALVE GP - MAIN CONTROL



<u>17</u>



<u>15</u>

<u>16</u>