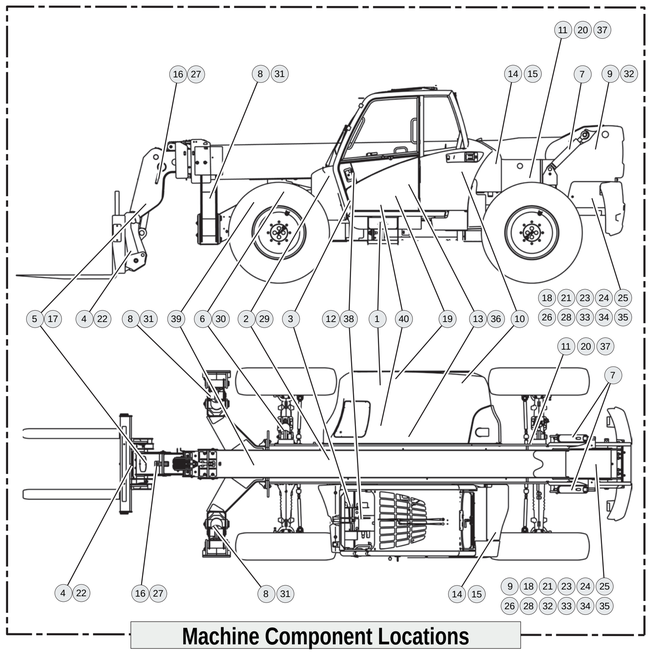
Component Locations			
Description	Part Number	Machine Location	Schematic Location
Cooler & Mtg Gp - Hydraulic Oil (Xmsn) (Option) (12kW) (20kW)	206-5502 194-0952	1	A-6
Cylinder Gp - Boom (Raise) (360)	253-3933	2	G-4
(560)	253-4258		
Cylinder Gp - Brake (Master)	295-3424	3	A-1
Cylinder Gp - Coupler	295-3419	4	H-5, H-7
Cylinder Gp - Tilt (360)	203-7756	5	F-5
(560)	211-1322		
Cylinder Gp - Frame Leveling (360) (560)	211-1327	6	I-4
Cylinder Gp - Hydraulic (Compensating) (360) (560)	203-7847 207-5070	7	F-5
Cylinder Gp - Stabilizer (360) (560)	259-8723 263-9955	8	H-1, H-2
Cylinder Gp - Telescoping (560)	241-3160	9	G-7
Filter Gp - Oil (Power Train)	191-1060	10	B-5
Pump Gp - Lower (Dead Engine Lower) (Emergency Lower) (560)	264-0616	11	H-10
Pump Gp - Metering (360) (Steering - HMU) (560)	233-6072 237-4154	12	F-9
Pump Gp - Piston (Main) (360) (560)	295-3457 295-3462	13	B-9
Strainer - (Tank Filter)	202-5350	14	A-8
Tank As - Hydraulic (360) (560)	248-4000 219-0538	15	A-8
Valve & Mtg Gp - Diverter (Dual Auxiliary)	222-4662	16	H-7
Valve As - (Tilt Cylinder Lock) (Cartridge)	295-3372	17	F-6
Valve Gp - Bank 4 (Implement)	295-3450	18	B-7
Valve Gp - Check (Xmsn)	257-4830	19	B-6
Valve Gp - Check (Emergency Lower) (560)	270-4157	20	H-9
Valve Gp - Check (Back Pressure)	225-1912	21	B-9
Valve Gp - Check (Coupler Cylinder Check)	236-4441	22	H-5, H-6
Valve Gp - Control (Aux)	227-1207	23	D-6
Valve Gp - Control (Boom Extend, Retract)	227-1206	24	D-7
Valve Gp - Control (Boom Raise, Lower)	227-1209	25	D-5
Valve Gp - Control (Quick Coupler Tilt)	227-1208	26	D-5
Valve Gp - Diverter (Single Auxiliary)	295-3437	27	H-7, I-5
Valve Gp - Electronic Pilot	247-7829	28	B-4
Valve Gp - Load Control (Boom Raise Lock)	295-3370	29	G-4
Valve Gp - Load Control (Frame Level)	265-0884	30	H-4
Valve Gp - Load Control (Stabilizer Cylinder Lock) (360/560)	204-6924	31	G-1, G-2
Valve Gp - Load Control (Tele Cylinder)	252-5652	32	F-7
Valve Gp - Manifold (Inlet)	227-1203	33	D-8
Valve Gp - Manifold (Outlet)	227-1205	34	D-4
Valve Gp - Pilot (Anti Kick)	223-4153	35	G-5
Valve Gp - Solenoid (Frame Level Arctic) (Option)	295-3459	36	C-9
Valve Gp - Solenoid (Sequence) (360/560) (Emergency Lower)	270-3593	37	I-10
Valve Gp - Solenoid (Steer Mode Select)	210-7217	38	E-10
Valve Gp - Stabilizer Control (360/560)	265-0881	39	F-1
XMSN Gp - (Option) (4spPsy) (4spPsh)	206-4387 206-4388	40	A-6



Machine Component Locations

CATERPILLAR®

31200304
December 15, 2006

Schematic

TH360B **and TH560B**
Telehandler
Hydraulic System

TH360B:
S/N TBH00100 & After

TH560B:
S/N TBP00100 & After

FLUID POWER SYMBOLS

BASIC COMPONENT SYMBOLS

PUMP or MOTOR · FLUID CONDITIONER · SPRING · CONTROL VALVES · RESTRICTION · LINE RESTRICTION (FIXED) · MARK AGAIN 2-SECTION PUMP · PUMP, VARIABLE and PRESSURE COMPENSATED · VARIABILITY · SPRING (ADJUSTABLE) · LINE RESTRICTION (VARIABLE) · PRESSURE COMPENSATION · HYDRAULIC ENERGY TRIANGLES · PNEUMATIC ENERGY TRIANGLES · LINE RESTRICTION VARIABLE and PRESSURE COMPENSATED · ATTACHMENT

VALVES

VALVE ENVELOPES: ONE POSITION · TWO POSITION · THREE POSITION
VALVE PORTS: TWO-WAY · THREE-WAY · FOUR-WAY

CONTROL VALVES

P T NORMAL POSITION · P T SHIFTED POSITION · INFINITE POSITION

CHECK VALVES

BASIC SYMBOL · SPRING LOADED · SHUTTLE · PILOT CONTROLLED

MEASUREMENT

PRESSURE · TEMPERATURE · FLOW

ROTATING SHAFTS

UNIDIRECTIONAL · BIDIRECTIONAL

FLUID STORAGE RESERVOIRS

VENTED · PRESSURIZED · RETURN ABOVE FLUID LEVEL · RETURN BELOW FLUID LEVEL

COMBINATION CONTROLS

SOLENOID · SOLENOID or MANUAL · SOLENOID and PILOT · SOLENOID and PILOT or MANUAL · SERVO · THERMAL · DETENT

MANUAL CONTROL SYMBOLS

PUSH-PULL LEVER · MANUAL SHUTOFF · GENERAL MANUAL · PUSH BUTTON · PEDAL · SPRING

PILOT CONTROL SYMBOLS

RELEASED PRESSURE: EXTERNAL RETURN · INTERNAL RETURN
REMOTE SUPPLY PRESSURE: SIMPLIFIED · COMPLETE · INTERNAL SUPPLY PRESSURE

ACCUMULATORS

SPRING LOADED · GAS CHARGED

CROSSING AND JOINING LINES

LINES CROSSING · LINES JOINING

HYDRAULIC AND PNEUMATIC CYLINDERS

SINGLE ACTING · DOUBLE ACTING

HYDRAULIC PUMPS

FIXED DISPLACEMENT · VARIABLE DISPLACEMENT NON-COMPENSATED
UNIDIRECTIONAL · BIDIRECTIONAL

HYDRAULIC MOTORS

FIXED DISPLACEMENT · VARIABLE DISPLACEMENT NON-COMPENSATED
UNIDIRECTIONAL · BIDIRECTIONAL

INTERNAL PASSAGEWAYS

INFINITE POSITIONING · THREE POSITION · TWO POSITION
FLOW IN ONE DIRECTION · PARALLEL FLOW · CROSS FLOW · FLOW ALLOWED IN EITHER DIRECTION

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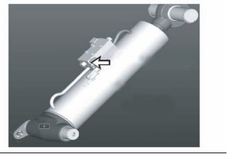
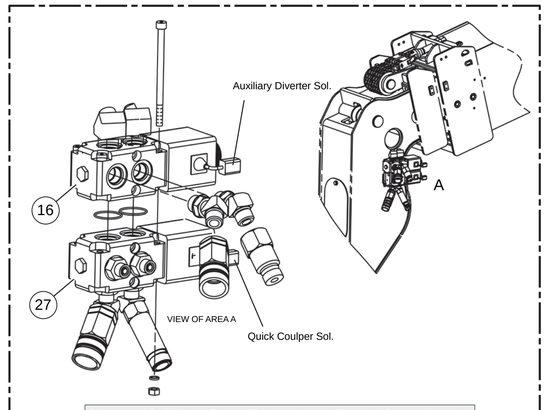
Tap Locations Pressure, Sampling, and Sensor		
Tap Number	Description	Schematic Location
AA	Main Pump Pressure	C-9
BB	Load Sensor Pressure	C-9
CC	Implement Pilot Pressure	C-3
DD	SOS Oil Sample Port	B-5



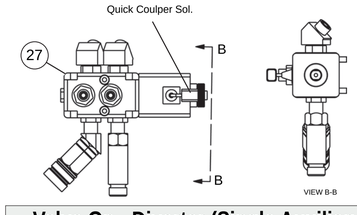
The load control valves are attached to the casings of the stabilizer cylinders.

The load control valves lock oil into both sides of the cylinders in order to hold the cylinders in position when the cylinders are stationary. The valves also prevent the stabilizer legs from collapsing if a hydraulic hose bursts.

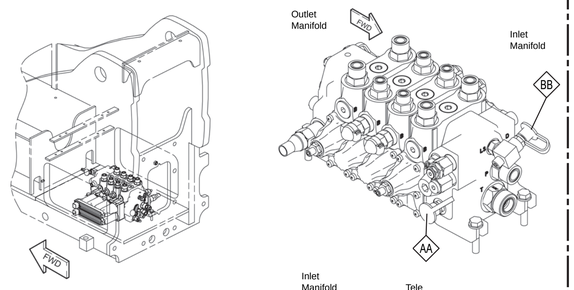
Valve Gp - Load Control (Stabilizer Cylinders) (Lock)

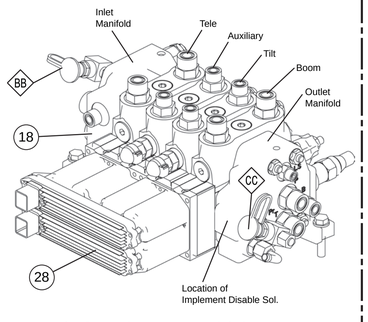


Valve & Mtg Gp - Diverter (Dual Auxiliary)



Valve Gp - Diverter (Single Auxiliary)





Valve Gp - Implement Asy 4-Bank (15),
Main Pump Pressure Port (AA),
Load Sensor Pressure Port (BB,
Implement Pilot Pressure Port (CC)

Valve Gp - Bank 4 (Implement)

Electrical Symbols Table

Hydraulic Symbols (Electrical)

Transducer (Fluid) · Transducer (Gas / Air) · Generator · Electric Motor · Pressure Switch · Pressure Switch (Adjustable) · Temperature Switch · Electrical Wire

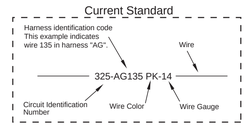
Electrical Symbols (Electrical)

Pressure Symbol · Temperature Symbol · Level Symbol · Flow Symbol

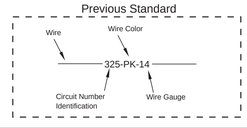
Wire Number Identification Codes

Electrical Schematic Example

Current Standard

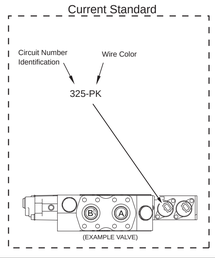


Previous Standard



Hydraulic Schematic Example

Current Standard



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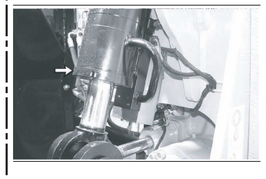
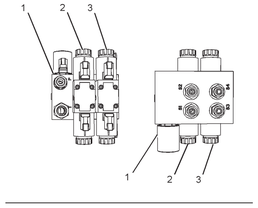


The frame leveling cylinder is located at the front of the machine on the right side. The head end of the cylinder is attached to the machine frame, and the rod end is attached to the front axle.

The frame leveling cylinder allows the machine frame to be levelled in order to improve the stability of the machine during operation.

Cylinder Gp - Frame Leveling



Stabilizers are used to increase the stability of the machine during stationary lifting operations. The stabilizers are used when the machine is lifting heavy loads or when an access platform is installed on the machine.

Independent operation of the stabilizers allows the machine to be leveled when the machine is operating on uneven ground.

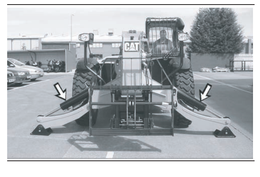
Stabilizers are installed as optional equipment on TH360 and TH560 machines only.

Valve Group (Stabilizer)

(1) Flow control valve (stabilizer)
(2) Control valve (left stabilizer)
(3) Control valve (right stabilizer)

The valve group (stabilizer) is located in the center of the stabilizer frame at the front of the machine.

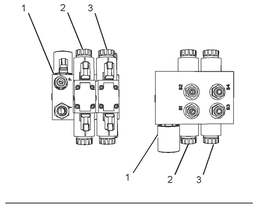
Stabilizer System



The stabilizer cylinders are located on the stabilizers at the front of the machine. The head end of the cylinder is attached to the stabilizer frame and the rod end is attached to the stabilizer leg.

The cylinders extend in order to lower the stabilizers and the cylinders retract in order to raise the stabilizers.

Stabilizer Cylinders



(1) Flow control valve (stabilizer)
(2) Control valve (left stabilizer)
(3) Control valve (right stabilizer)

The valve group (stabilizer) is installed in the center of the stabilizer frame at the front of the machine.

The valve group (stabilizer) consists of the flow control valve (stabilizer) (1), the control valve (left stabilizer) (2) and the control valve (right stabilizer) (3).

The flow control valve (1) controls the flow of oil into the stabilizer cylinders and out of the stabilizer cylinders.

Stabilizers are used in order to improve the stability of the machine.

Valve Gp - Stabilizer Control