



Torque control adjustment (A), Flow compensator adjustment (B), Load sensing pressure tap (T2), Inlet port (C), Case drain port (**D**), Torque control solenoid (**E**), Discharge pressure tap (**T1**), Torque limiter (**F**), Outlet port (**G**)

Schematic 432E, 434E, 442E, and 444E **Backhoe Loaders Hydraulic System** 434E: 442E: 432E: BXE2200-UP GKZ600-UP FSH900-UP `Temp Sensor Filter Bypass Switch

CATERPILLAR®



For other bank valve configurations see RENR6487 (Specifications Manual).

∕—STAB

E-STICK



KENR8230-01 December 2008

444E: LBE600-UP

FLUID POWER SYMBOLS								
BASIC COMPONENT SYMBOLS								
\bigcirc	\rightarrow	Ś)()(MAIN AUX.		
PUMP or MOTOR	FLUID CONDITIONER	SPRING	CONTROL VALVES	RESTRICTION	LINE RESTRICTION (FIXED)	2-SECTION PUMP PRE	SSURE COMPENSATED	
_	×.	X	Ť		\land			
VARIABILITY	SPRING (ADJUSTABLE)	LINE RESTRICTION (VARIABLE)	PRESSURE COMPENSATION	HYDRAULIC ENERGY	PNEUMATIC TRIANGLES	LINE RESTRICTION VARIABLE and PRESSURE COMPENSATED	ATTACHMENT	
VALVE ENVELOPES VALVE PORTS								
				۲h) Г		
ONE POSITION	TWO POSITIO	N THREE	POSITION	TWO-WAY	THREE-W	AY FO	UR-WAY	
CONTROL VALVES			CHECK VALVES					
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P T NORMAL POSITION	P T SHIFTED PC	DSITION INF				SHUTTLE	PILOT CONTROLLED	
	MEASUREMENT			ROTATING SHAFTS				
K		_	-0-	\bigcirc		(\rightarrow	
PRESSURE	TEMPERAT	ſURE	 FLOW		NAL	BI		
FLUID STORAGE RESERVOIRS								
VENTED	PRESSURIZE	D	RETURN ABO			RETURN BELOW FL		
COMBINATION CONTROLS								
						L		
SOLENOID	SOLENOID or MANUAL	SOLENC and PII (DLENOID and	SERVO	THERMAL	DETENT	
MANUAL CONTROL SYMBOLS								
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PUSH-PULL LEVER	MANUA	AL SHUTOFF	GENER	L RAL MANUAL	PUSH BUTTON	PEDAL	SPRING	
PILOT CONTROL SYMBOLS								
	l	▲		-				
EXTERNAL RETURN	INTE	RNAL RETURN			SIMPLIFIED	COMPLETE	INTERNAL SUPPLY PRESSURE	
ACCUM	C	CROSSING AND JOINING LINES						
SPRING LOADED GAS CHARGED		ED LINES			SINGLE ACTIN	NG	DOUBLE ACTING	
HYDRAULIC PUMPS			HYDRAULIC MOTORS		INT	INTERNAL PASSAGEWAYS		
FIXED VARIABLE DISPLACEMENT			FIXED VARIABLE DISPLACEMENT		IT INFINITE	THREE	TWO	
			BIDIRECTIONAL			PARALLEL CROSS FLOW	Flow Allowed IN FILOW ALLOWED IN EITHER DIRECTION	

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pressure switch (D). Two solenoids are now used on the "E" Series machines Ride Control

The Ride Control System, on machines with the optional autoshift transmission, is controlled by the Machine ECM. The Machine ECM monitors the position of the ride control switch and determines when to operate the ride control system.



RIDE CONTROL 19 20 21





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