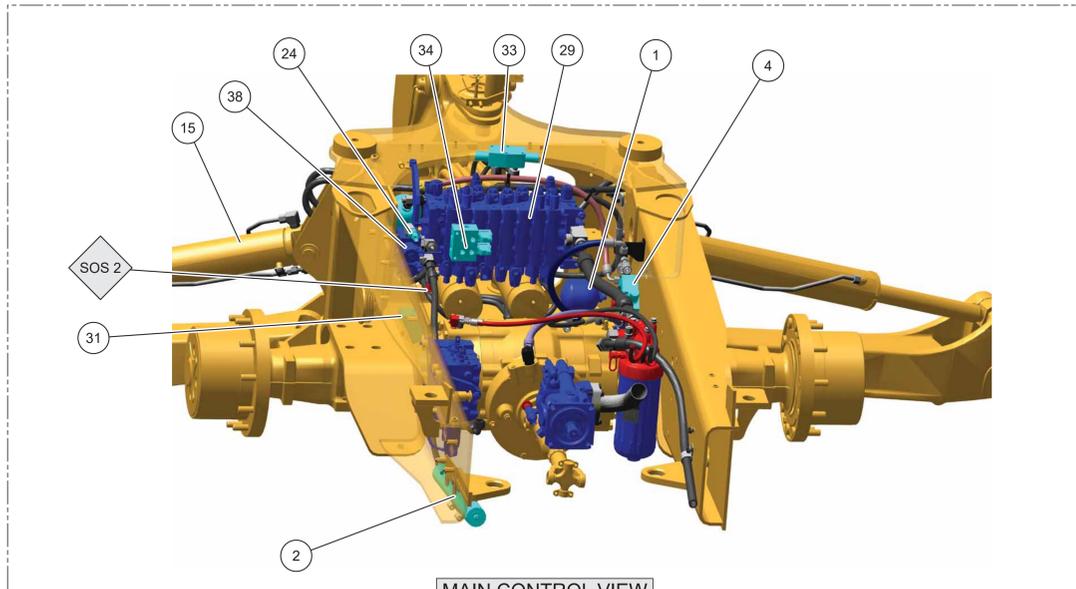
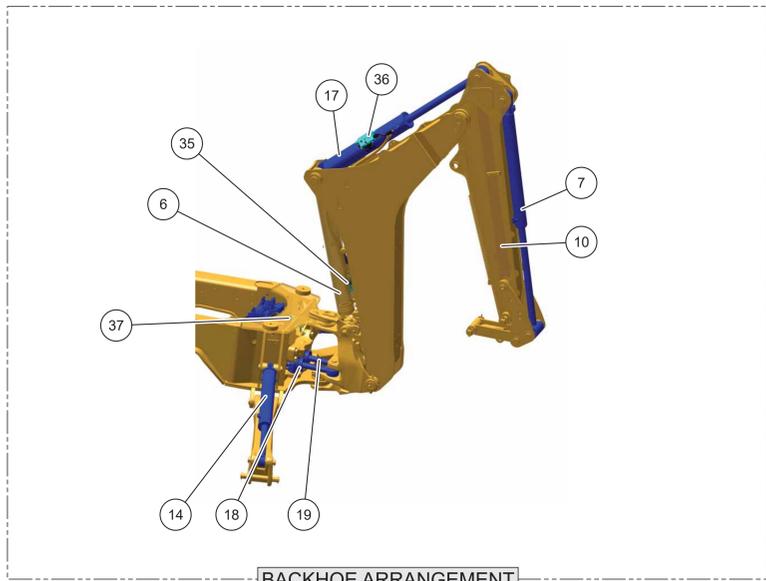


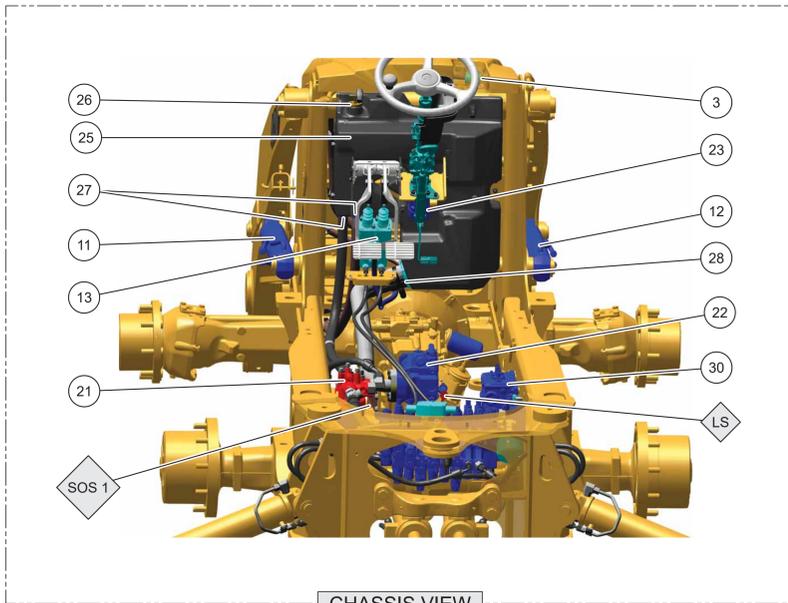
BACKHOE COUPLER



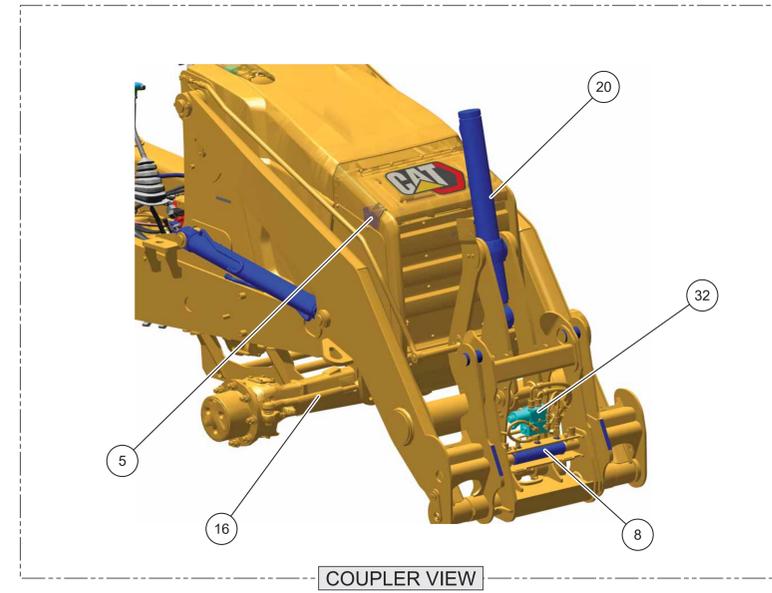
MAIN CONTROL VIEW



BACKHOE ARRANGEMENT



CHASSIS VIEW



COUPLER VIEW

Component Locations		
Description	Schematic Location	Machine Location
Accumulator Gp - SAHR / Brake	F-13	1
Accumulator Gp (Ride Control)	D-14	2
Breather	B-7	3
Control Gp - Service Brake	F-9	13
Cooler Gp (Hydraulic)	D-7	5
Cylinder Gp - Boom	J-11	6
Cylinder Gp - Bucket	J-9	7
Cylinder Gp - Coupler	B-16	8
Cylinder Gp - Coupler (HOE)	H-2	9
Cylinder Gp - E-Stick	J-6	10
Cylinder Gp - Lift (Left)	B-14	11
Cylinder Gp - Lift (Right)	C-14	12
Cylinder Gp - Stabilizer (Left)	J-13	14
Cylinder Gp - Stabilizer (Right)	J-14	15
Cylinder Gp - Steering	B-16	16
Cylinder Gp - Stick	J-9	17
Cylinder Gp - Swing (Left)	J-10	18
Cylinder Gp - Swing (Right)	J-11	19
Cylinder Gp - Tilt	B-15	20
Filler Gp (Hydraulic)	D-3	21
Pump Gp - Piston	D-9	22
Pump Gp (HML)	C-16	23
Sensor Gp - Pressure (Ride Control)	D-14	24
Tank & MTG Gp - Hydraulic	A-7	25
Tank Gp - Cap Filler	B-11	26
Tank Gp - Diffuser	A-8	27
Tank Gp - Strainer	A-9	28
Valve Gp - Backhoe	I-16	29
Valve Gp - Bank (Loader)	A-12	30
Valve Gp - Coupler (HOE)	E-2	31
Valve Gp - Coupler (Loader)	A-14	32
Valve Gp - Cushion (Swing Control)	J-10	33
Valve Gp - Flow Control (Pattern Changer)	E-5	34
Valve Gp - Hose Burst Check (Boom)	I-12	35
Valve Gp - Hose Burst Check (Stick Load Control)	J-8	36
Valve Gp - Manual (1 Way / 2 Way)	F-3	37
Valve Gp - Ride Control	D-14	38
Valve Gp - Solenoid Pressure Reducing (SAHR / Powershift Only)	F-14	4

Tap Locations Pressure, Sampling, and Sensor		
Tap Number	Description	Schematic Location
SOS 1	Scheduled Oil Sampling Port (Filter Group)	D-4
SOS 2	Scheduled Oil Sampling Port (Control Valve)	I-15
LS	Load Sense Pressure Port	D-8



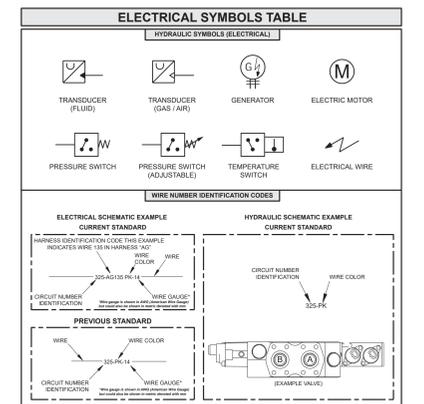
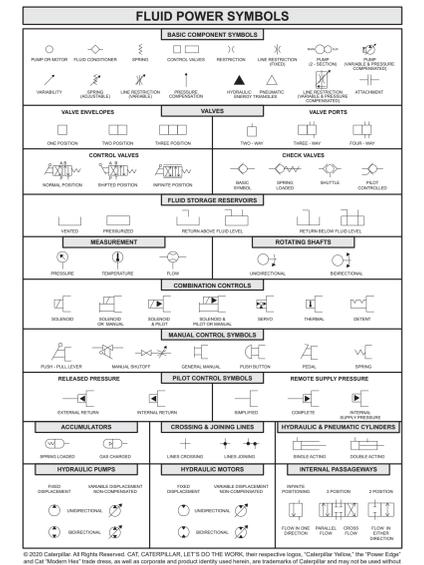
Schematic

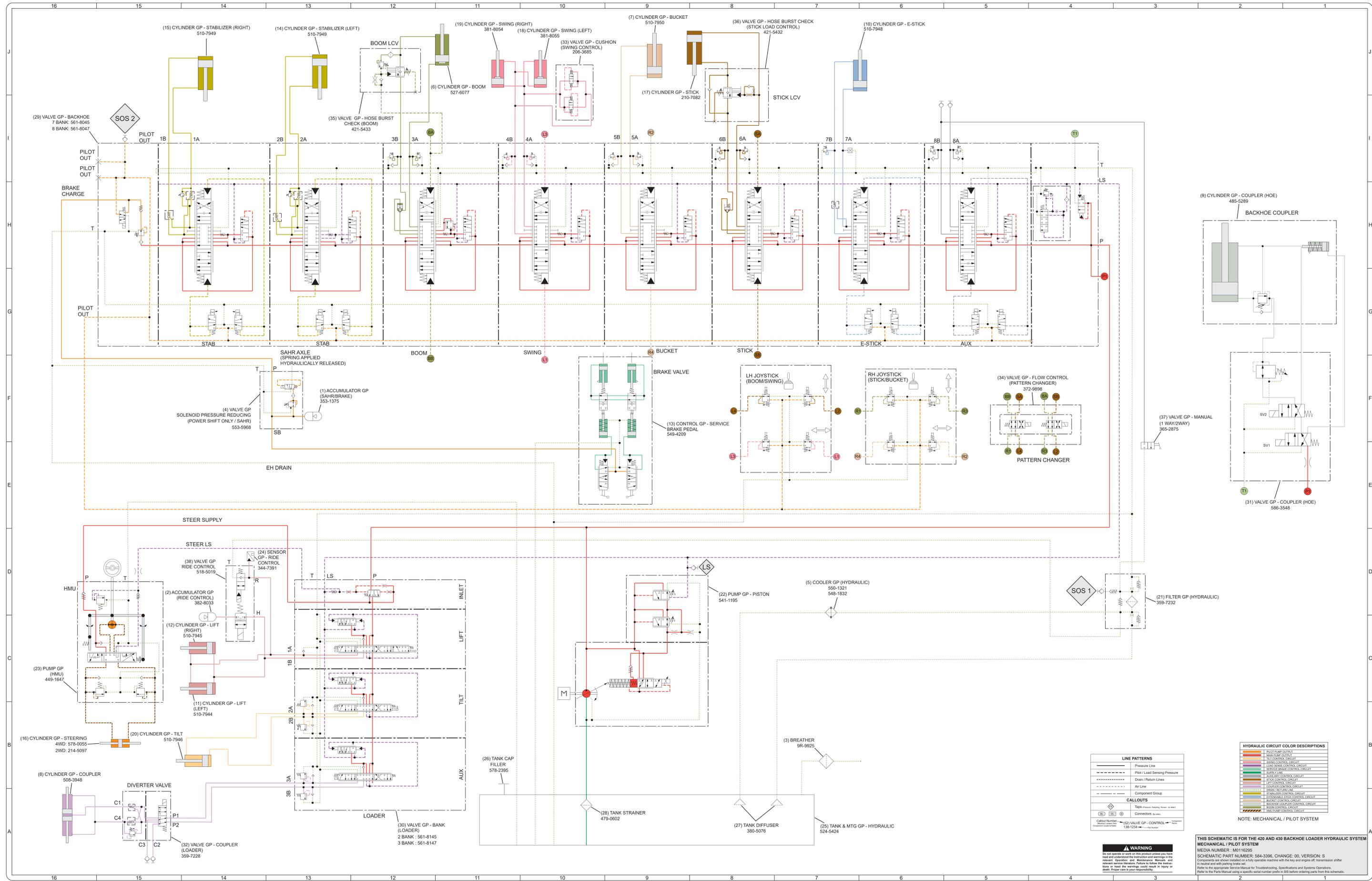
420 and 430 Backhoe Loader Hydraulic System

NDX1-LUP
LST1-LUP
LETT-LUP
HST1-LUP
LSSW1-LUP
HWS1-LUP

Mechanical / Pilot System

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LINE PATTERNS

- Pressure Line
- Pilot / Load Sensing Pressure
- Drain / Return Lines
- Air Line
- Component Group

CALLOUTS

- Tap (Pressure Sensing, Normal, No Sense)
- Connectors (as shown)

HYDRAULIC CIRCUIT COLOR DESCRIPTIONS

- PUMP/INLET
- MANUAL/OUTPUT
- TILT CONTROL CIRCUIT
- STEER/CONTROL CIRCUIT
- LEFT/CONTROL CIRCUIT
- RIGHT/CONTROL CIRCUIT
- COUPLER CONTROL CIRCUIT
- SAHR/BACKHOE CIRCUIT
- SAHR/STEERING CIRCUIT
- SAHR/STICK CIRCUIT
- SAHR/STABILIZER CIRCUIT
- SAHR/BOOM CIRCUIT
- SAHR/SWING CIRCUIT
- SAHR/BUCKET CIRCUIT
- SAHR/STICK CIRCUIT
- SAHR/AUX CIRCUIT
- SAHR/LOADER CIRCUIT

NOTE: MECHANICAL / PILOT SYSTEM

THIS SCHEMATIC IS FOR THE 420 AND 430 BACKHOE LOADER HYDRAULIC SYSTEM MECHANICAL / PILOT SYSTEM

MEDIA NUMBER: M0116295

SCHEMATIC PART NUMBER: 584-3396 CHANGE: 00, VERSION: S

WARNING

Do not operate or work on these hydraulic systems unless you understand the instructions and warnings in the manual, Operator and Maintenance Manuals, and relevant service literature. Failure to follow the instructions or heed the warnings could result in injury or death. Proper care is your responsibility.

Components are shown installed on a fully operable machine with the key and engine off, transmission in neutral and with parking brake set.

Refer to the appropriate Service Manual for Troubleshooting, Specifications and System Operation.

Refer to the Parts Manual using a specific serial number prefix in SIS before ordering parts from this schematic.