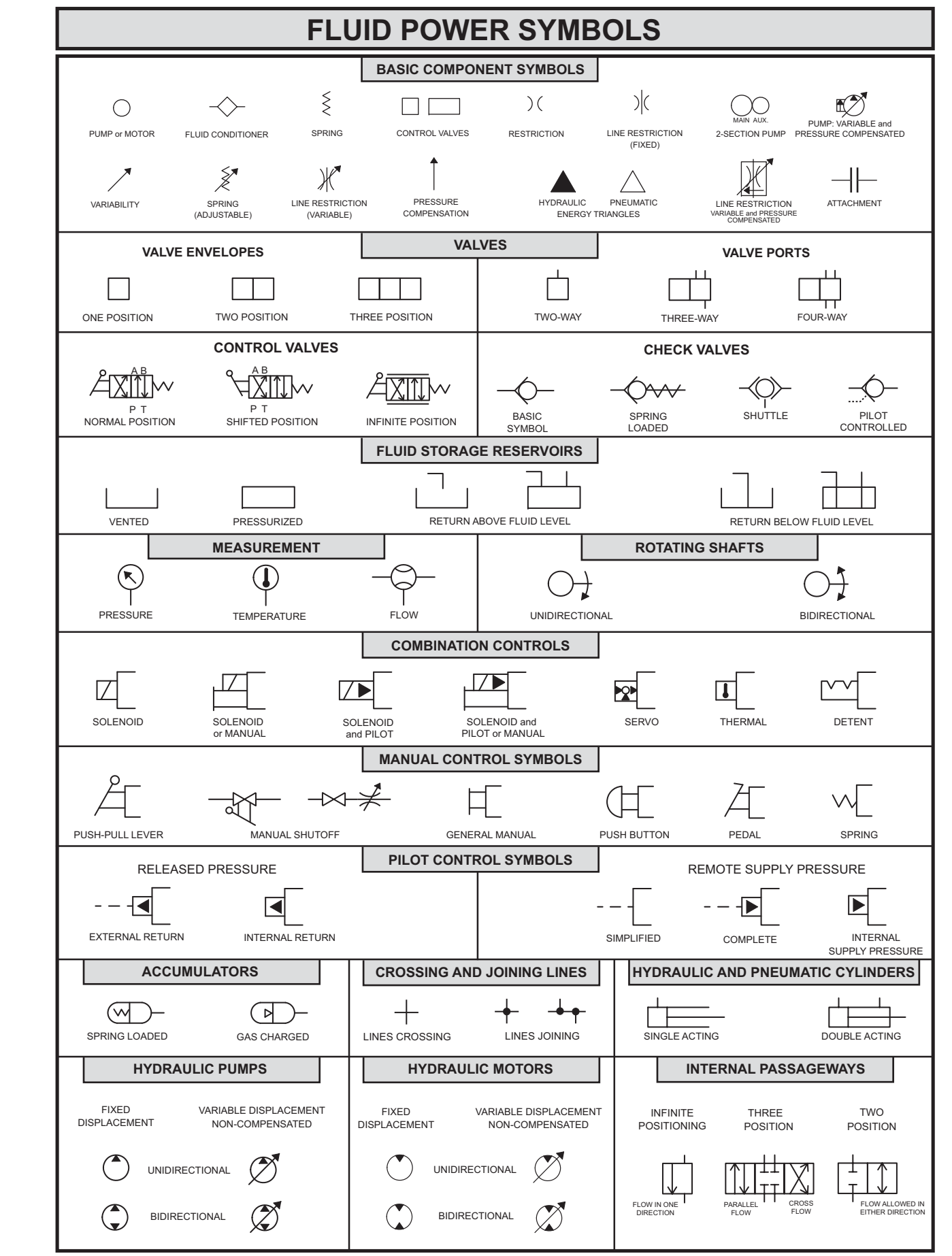


Schematic

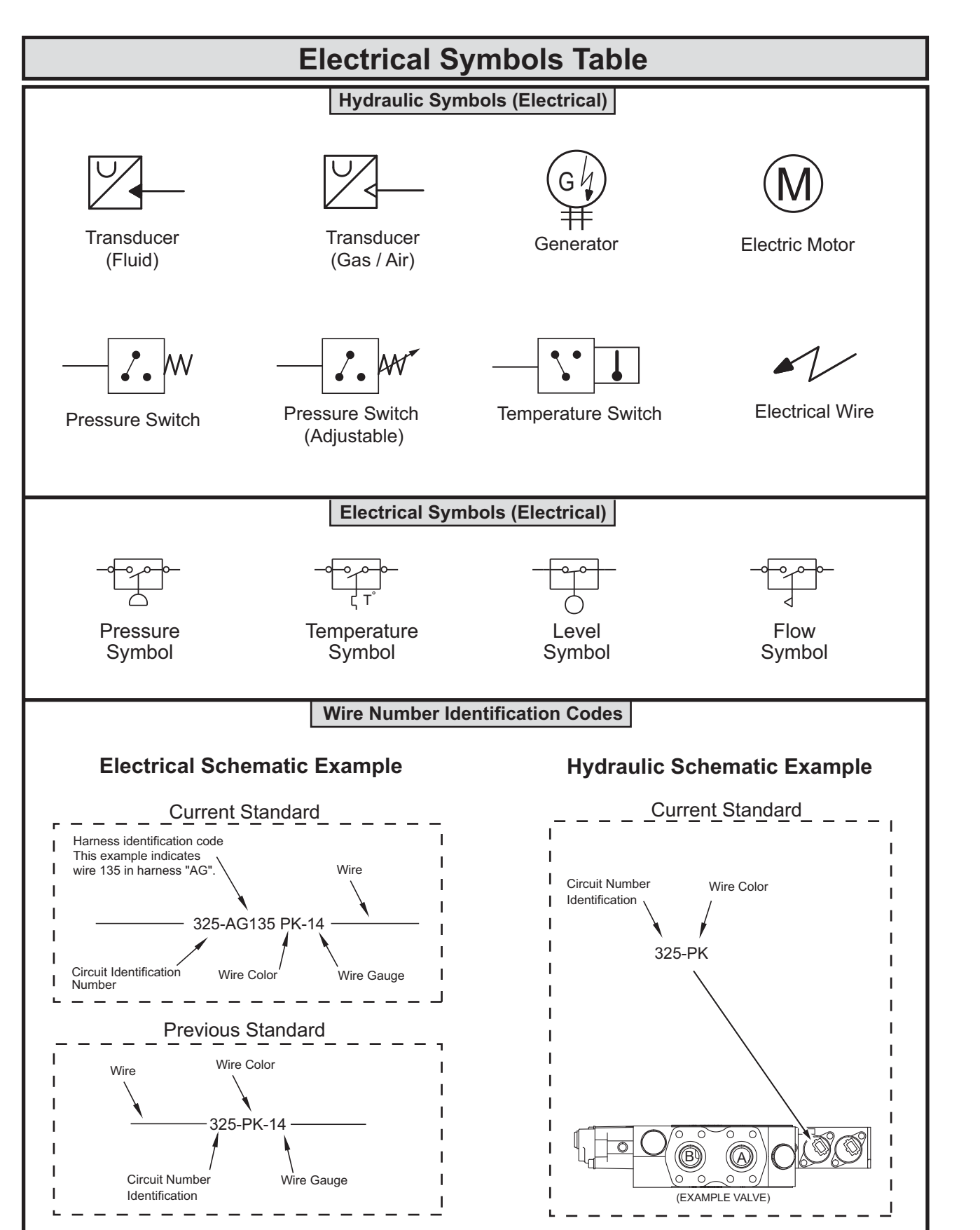
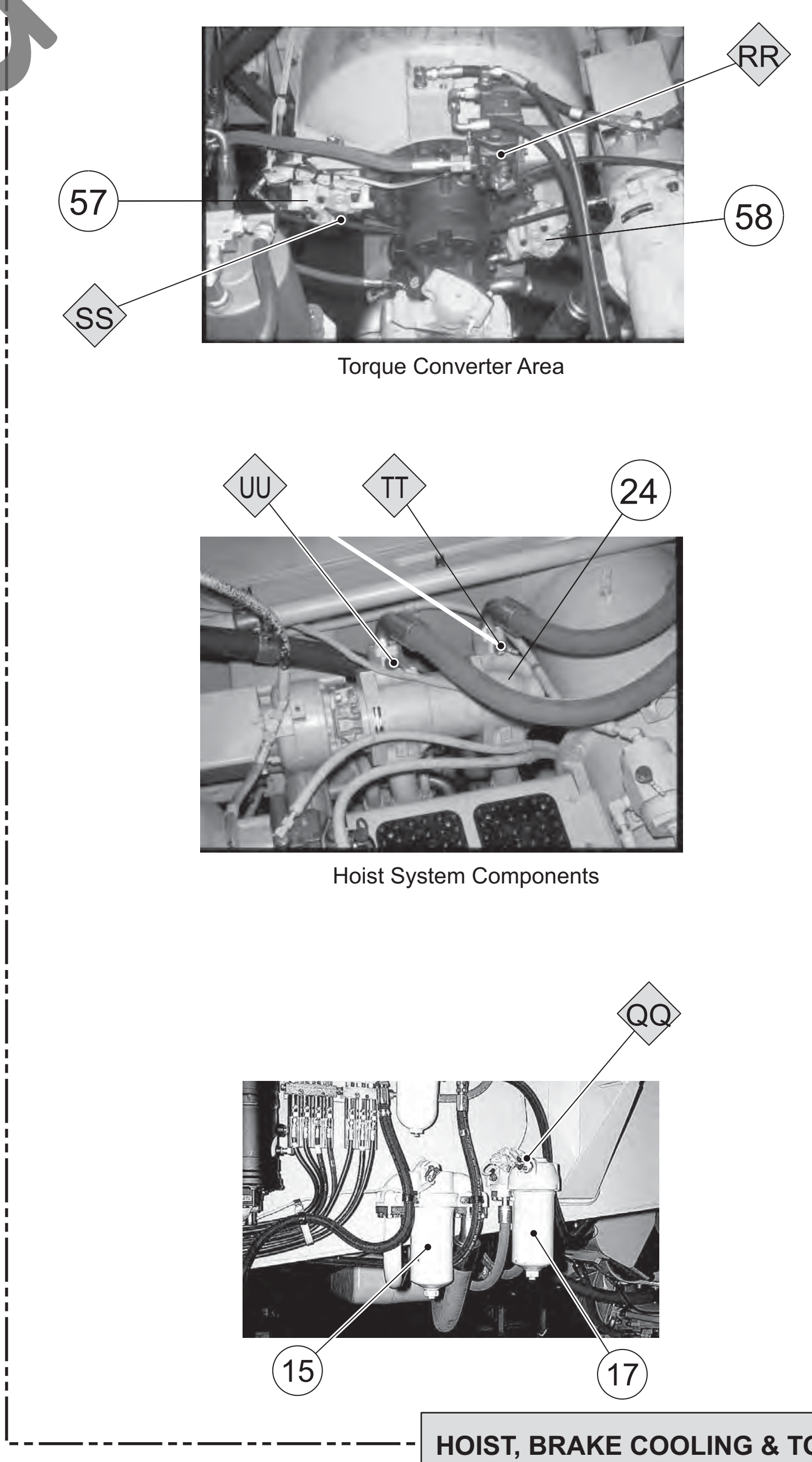
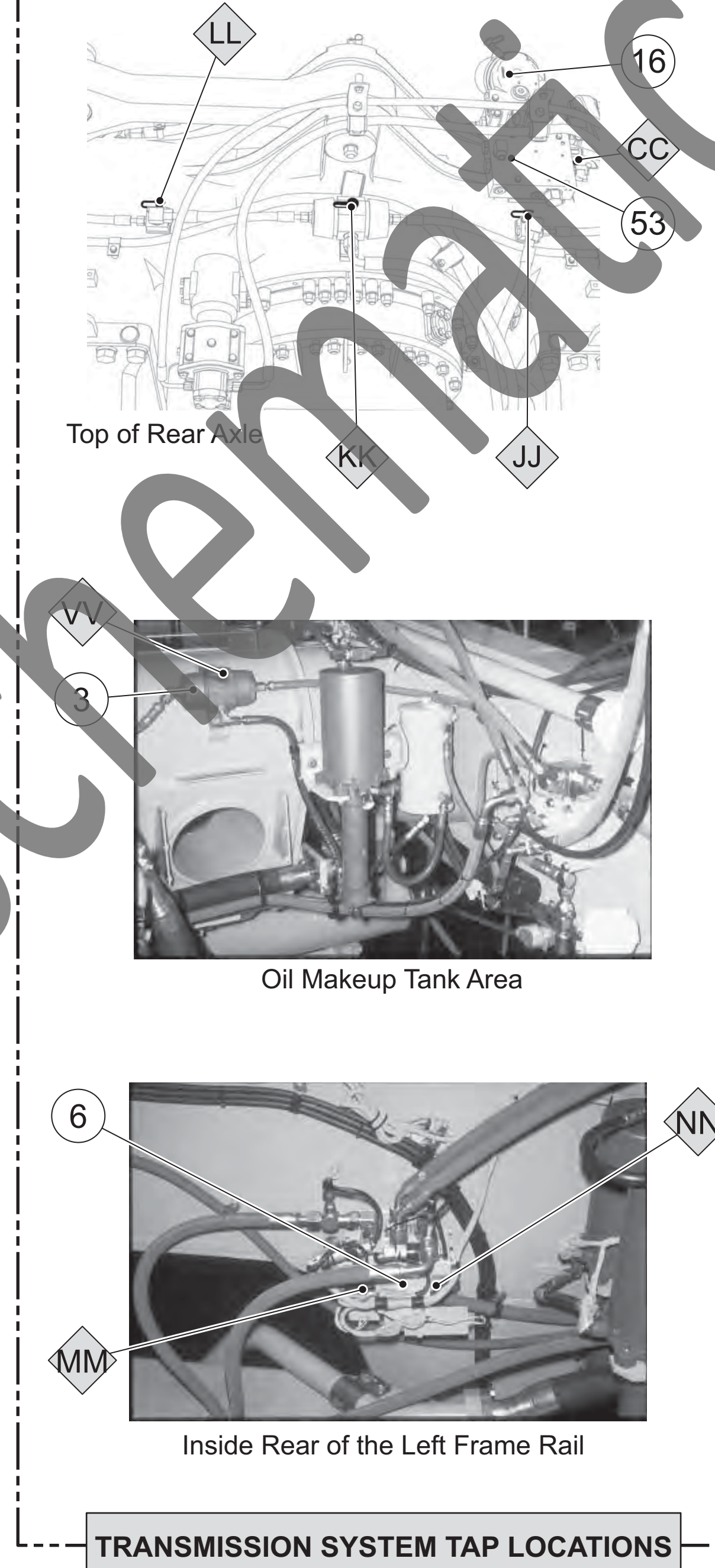
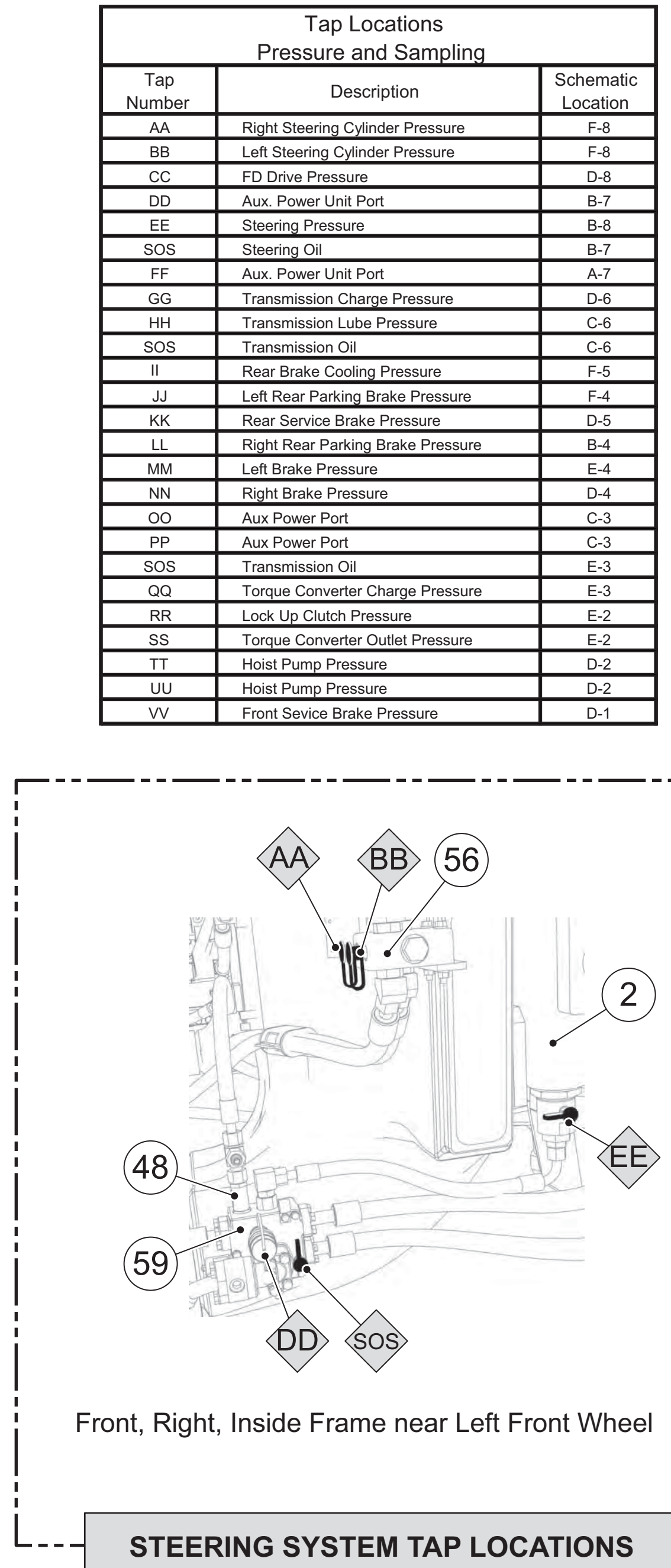
785D Off-Highway Truck Hydraulic System

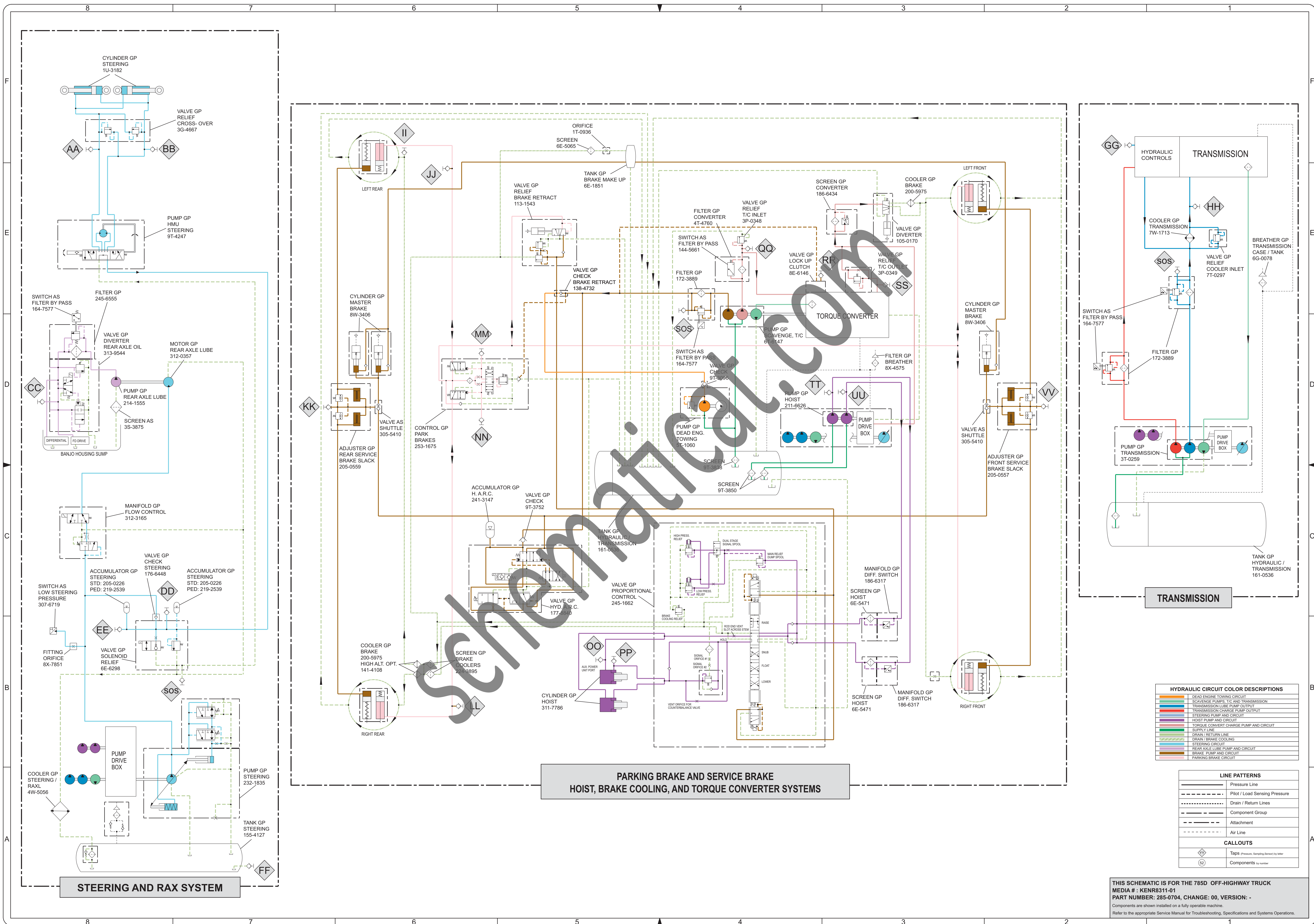
DMC1-UP
MSY1-UP



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Component Locations			
Description	Part Number	Machine Location	Schematic Location
Accumulator Gp - H.A.R.C.	241-3147	1	D-4
Accumulator Gp - PED	219-2539	2	B-7
Accumulator Gp - Steering	205-0226	2	B-8
Adjuster Gp - Frnt Serv. Brk Slack	205-0557	3	D-1
Adjuster Gp - Rear Serv. Brk Slack	205-0559	4	D-5
Breather Gp - Xmsn Case / Tank	6G-0078	5	C-6
Control Gp - Park Brakes	253-1675	6	E-4
Cooler Gp - Brake	200-5975	7	C-5, F-1
Cooler Gp - Brake, High Alt. Opt.	141-4108	7	C-5
Cooler Gp - Strng and RAXL	4W-5056	9	A-8
Cooler Gp - Transmission	7W-1713	10	C-6
Cylinder Gp - Hoist	311-7786	11	B-3, C-3
Cylinder Gp - Master Brake	8W-3406	12	E-1, E-5
Cylinder Gp - Steering	1U-3182	13	F-8
Filter Gp - Breather	8X-4575	14	C-2
Filter Gp -	172-3889	15	B-8, C-6, E-3
Filter Gp -	245-6555	16	D-8
Filter Gp - Converter	4T-4760	17	E-3
Fitting - Orifice	8X-7851	18	B-8
Manifold Gp - Diff. Switch	186-6317	19	C-2
Manifold Gp - Flow Control	312-3165	20	C-8
Motor Gp - Rear Axle Lube	312-0357	21	D-7
Orifice	1T-0936	22	F-3
Pump Gp - Dead Eng. Towing	5T-1060	23	E-3
Pump Gp - Hoist	211-6626	24	D-2
Pump Gp - Rear Axle Lube	214-1555	25	D-8
Pump Gp - Scavenge, T/C	6T-6147	26	E-2
Pump Gp - Steering	232-1835	27	A-7
Pump Gp - Steering HMU	9T-4247	28	E-8
Pump Gp - Transmission	3T-0259	29	B-6
Screen	6E-5065	30	F-3
Screen	9T-3838	31	D-3
Screen	9T-3850	32	D-3
Screen As	3S-3875	33	D-8
Screen Gp - Brake Coolers	224-3895	34	C-4
Screen Gp - Converter	186-6434	35	F-2
Screen Gp - Hoist	6E-5471	36	C-2
Switch As - Filter By pass	144-5661	37	E-2
Switch As - Filter By pass	164-7577	38	B-7, C-6, D-8, E-3
Switch As - Low Steer. Pressure	307-6719	39	B-8
Tank Gp - Brake Make Up	6E-1851	41	F-3
Tank Gp - Hyd. and Transmission	161-0536	42	A-6, D-3
Tank Gp - Steering	155-4127	43	A-7
Valve As - Shuttle	305-5410	44	D-1, D-5
Valve Gp - Check	9T-3096	45	E-3
Valve Gp - Check	9T-3752	46	D-4
Valve Gp - Check, Brake Retract	138-4732	47	E-4
Valve Gp - Check, Steering	176-6448	48	B-8
Valve Gp - Diverter	105-0170	49	F-2
Valve Gp - Hyd. A.R.C.	177-8840	50	C-4
Valve Gp - Lock Up Clutch	8E-6146	51	E-2
Valve Gp - Proportional Control	245-1662	52	C-2 to C-3
Valve Gp - Rear Axle Oil Diverter	313-9544	53	D-8
Valve Gp - Relief, Brake Retract	113-1543	54	F-4
Valve Gp - Relief, Cooler Inlet	7T-0297	55	C-6
Valve Gp - Relief, Cross-Over	3G-4667	56	F-8
Valve Gp - Relief, T/C Inlet	3P-0348	57	E-3
Valve Gp - Relief, T/C Outlet	3P-0349	58	E-2
Valve Gp - Solenoid, Relief	6E-6298	59	B-8





STEERING AND RAX SYSTEM

**PARKING BRAKE AND SERVICE BRAKE
HOIST, BRAKE COOLING, AND TORQUE CONVERTER SYSTEMS**

HYDRAULIC CIRCUIT COLOR DESCRIPTIONS

Orange	DEAD ENGINE TOWING CIRCUIT
Green	SCAVENGE PUMPS, T/C AND TRANSMISSION
Blue	TRANSMISSION LUBE PUMP OUTPUT
Light Blue	TRANSMISSION CHARGE PUMP OUTPUT
Dark Blue	STEERING PUMP AND CIRCUIT
Purple	HOIST PUMP AND CIRCUIT
Red	TORQUE CONVERT CHARGE PUMP AND CIRCUIT
Black	SUPPLY LINE
Grey	DRAIN / RETURN LINE
Light Green	DRAIN / BRAKE COOLING
Light Blue	STEERING CIRCUIT
Dark Blue	REAR AXLE LUBE PUMP AND CIRCUIT
Orange	BRAKE PUMP AND CIRCUIT
Red	PARKING BRAKE CIRCUIT

LINE PATTERNS

Solid line	Pressure Line
Dashed line	Pilot / Load Sensing Pressure
Dotted line	Drain / Return Lines
Line with circles	Component Group
Line with triangles	Attachment
Line with squares	Air Line

CALLOUTS

Symbol with number	Taps (Pressure, Sampling, Sensor) by letter
Symbol with number	Components by number

THIS SCHEMATIC IS FOR THE 785D OFF-HIGHWAY TRUCK
 MEDIA #: KENR8311-01
 PART NUMBER: 285-0704, CHANGE: 00, VERSION: -
 Components are shown installed on a fully operable machine.
 Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.