PART NO. TOCGB-E-00

HITACHI

Technical Manual

Operational Principle

ZAXIS

170W-3
190W-3

Wheeled Excavator

Service Manual consists of the following separate Part No;

Technical Manual (Operational Principle)	: Vol. No.TOCGB-E
Technical Manual (Troubleshooting)	: Vol. No.TTCGB-E
Workshop Manual	: Vol. No.WCGB-E

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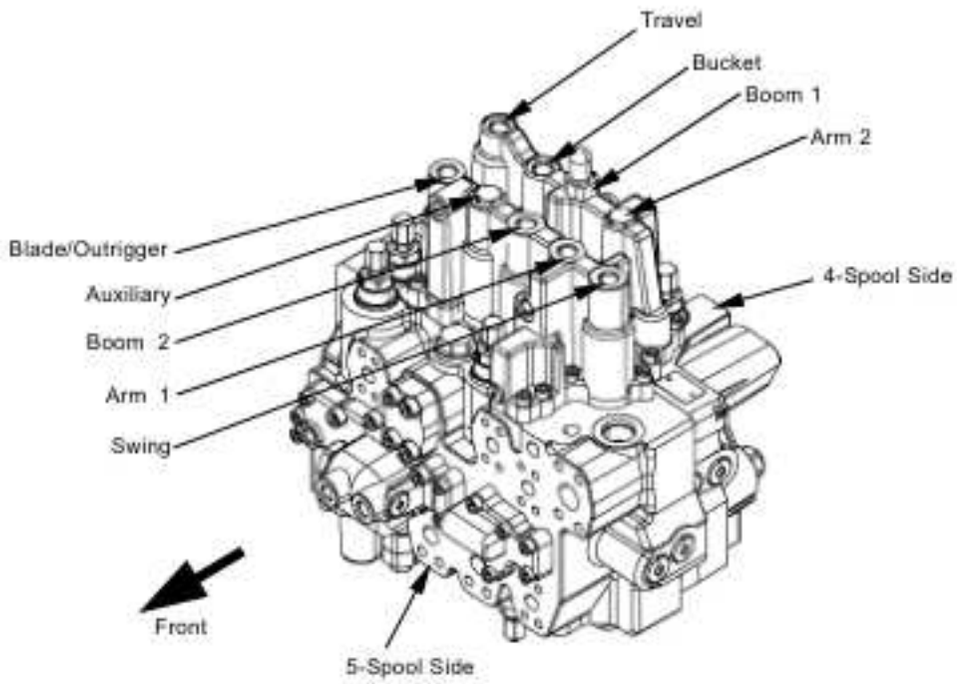
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OUTLINE

The control valve controls pressure oil, flow rate, and oil flow direction in the hydraulic circuit.
The major parts of the control valve are the main relief valve, overload relief valve, anti-drift valve, flow rate control valve, regenerative valve, auxiliary flow combiner valve, bypass shut-out valve and spools. The spools are operated by pilot pressure oil.

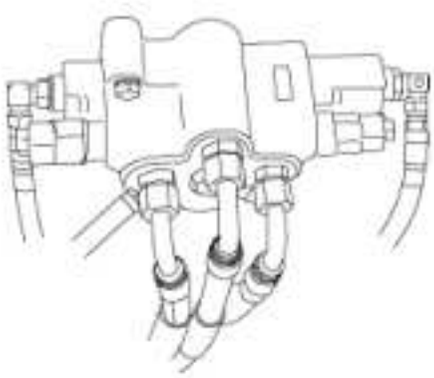
The spool arrangements are as follows.
4-Spool Side: Travel, Bucket, Boom 1, Arm 2
5-Spool Side: Blade/Outrigger, Auxiliary, Boom 2, Arm 1, Swing

Control Valve



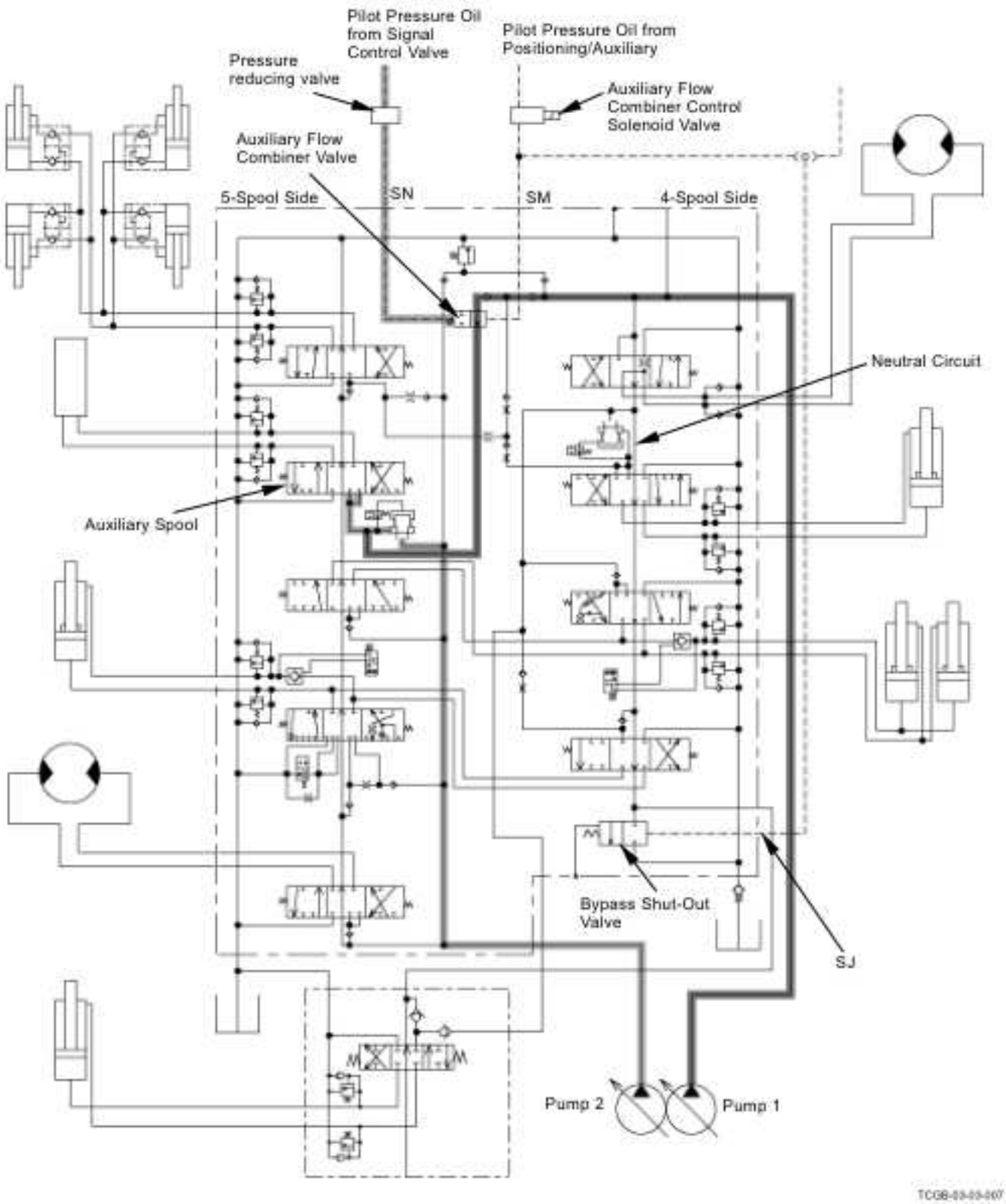
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Positioning Control Valve



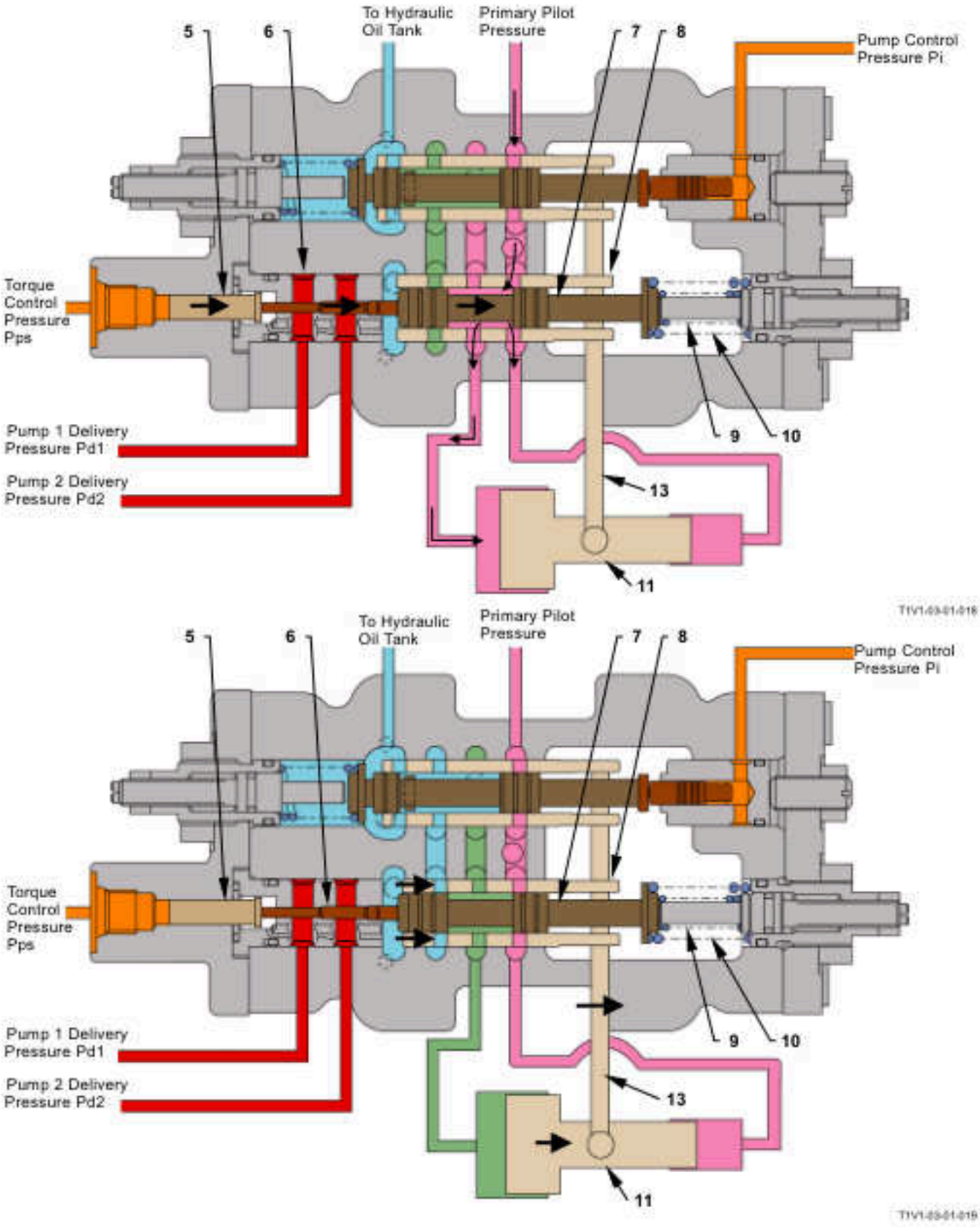
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NOTE: *The pressure reducing valve and the auxiliary flow combiner control solenoid valve are installed only on the machines equipped with the optional parts.*

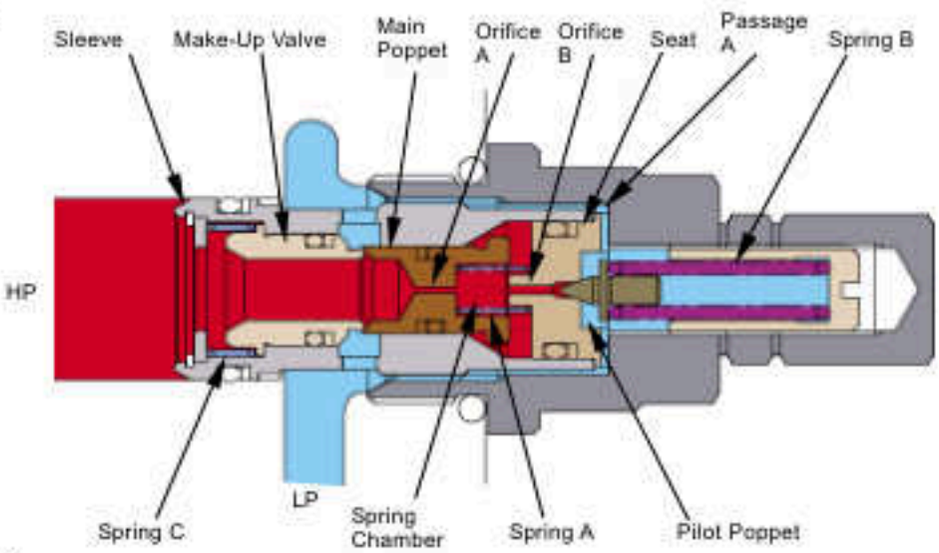
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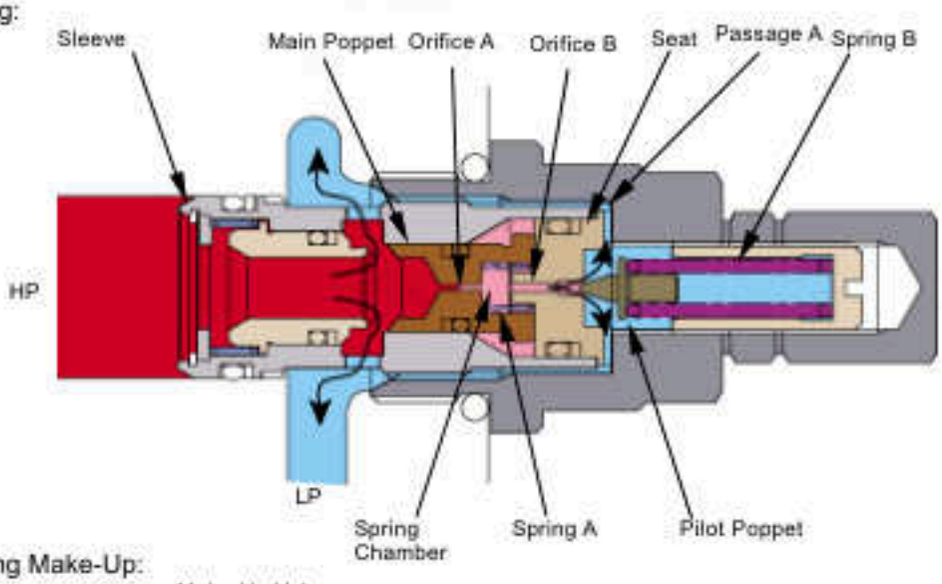
5 - Load Piston 1
6 - Load Piston 2
7 - Spool B
8 - Sleeve B
9 - Inner Spring
10 - Outer Spring
11 - Servo Piston
13 - Link

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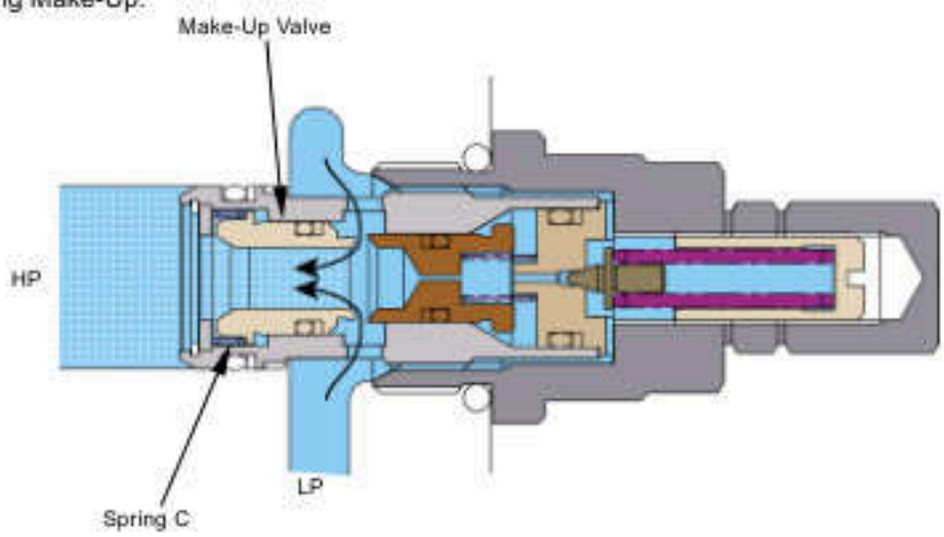
When Normal:



When Relieving:



When Operating Make-Up:

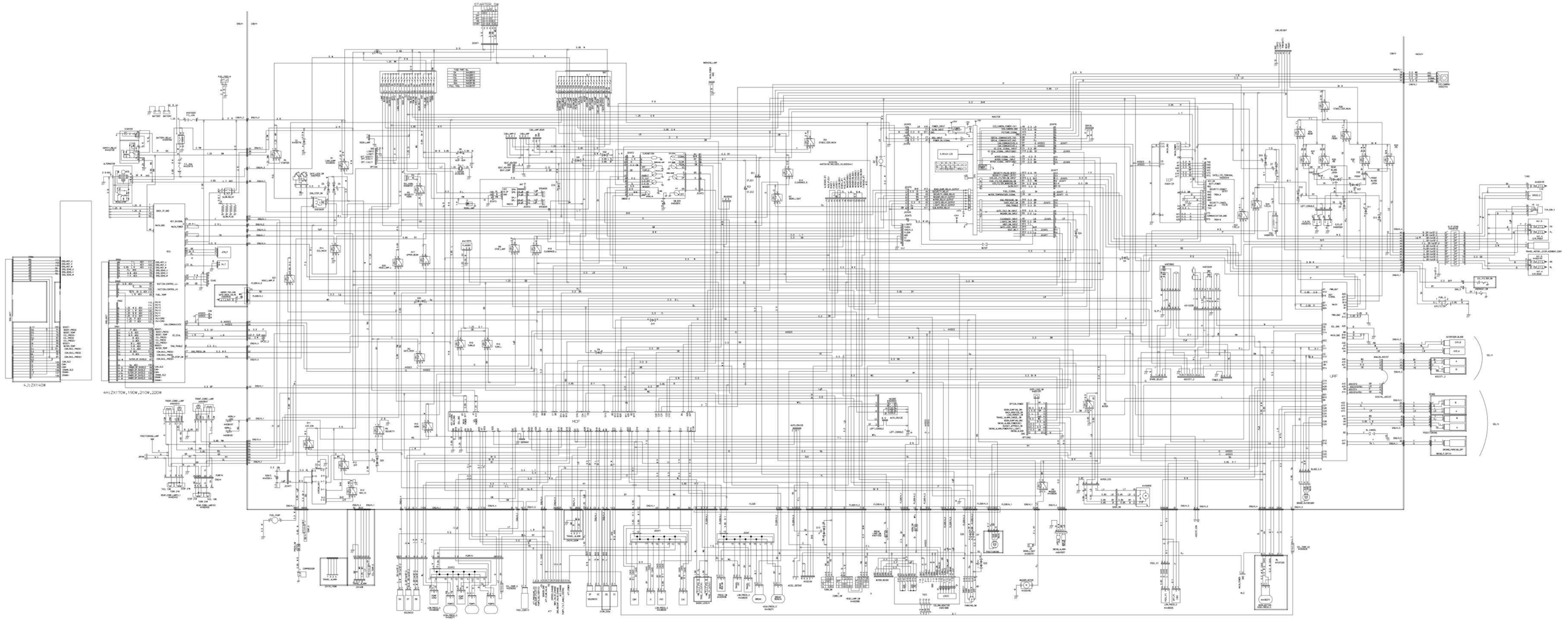


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Attach to Vol. No.: TTCEB-E-00, TTCGB-E-00, TTCJB-E-00

ZAXIS140W-3/170W-3/190W-3/210W-3/220W-3 ELECTRICAL CIRCUIT DIAGRAM (STANDARD)

⚠CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing,be sure to consult the Parts Catalog.



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