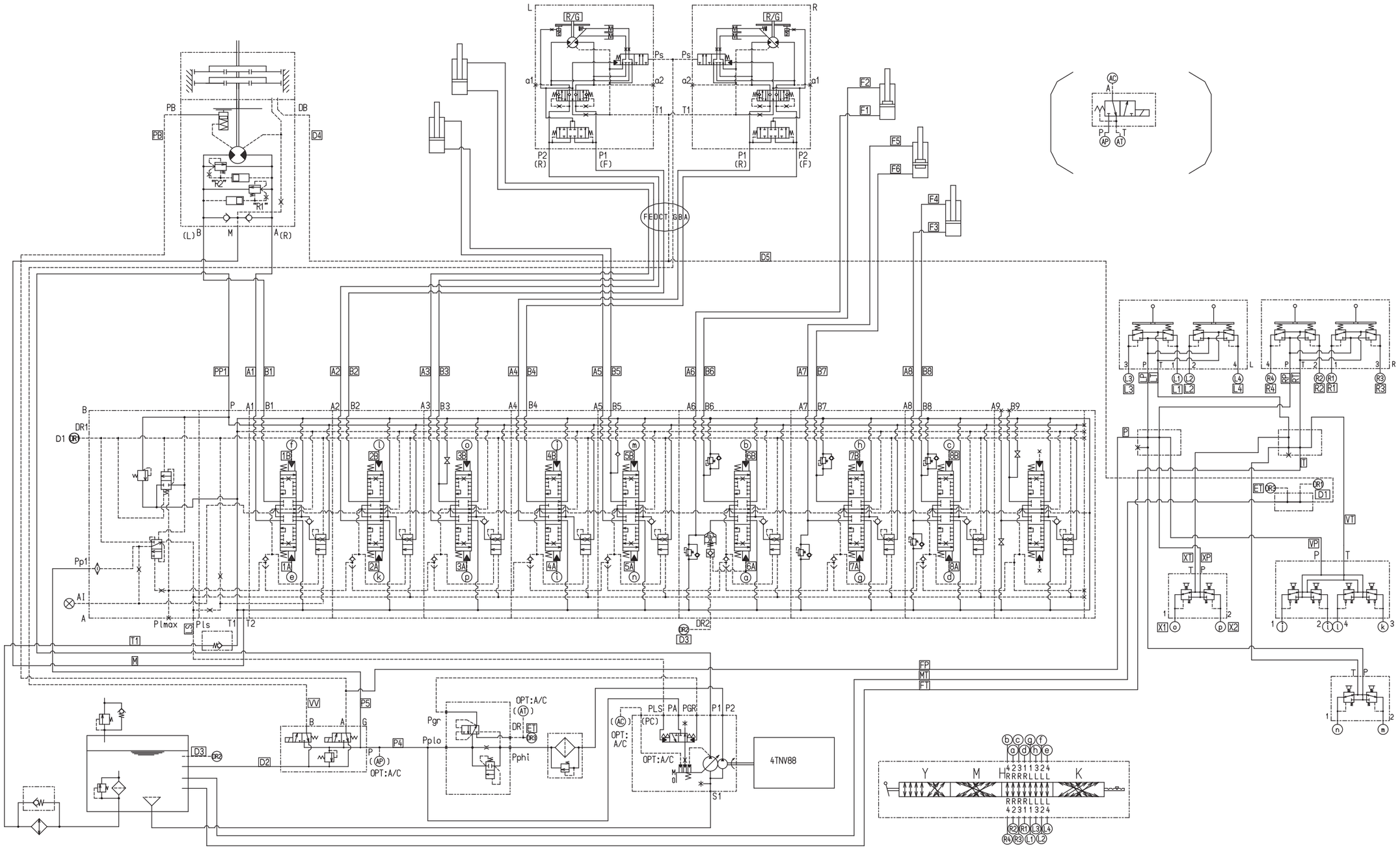
Attach to Vol. No. : T1M9-E-00

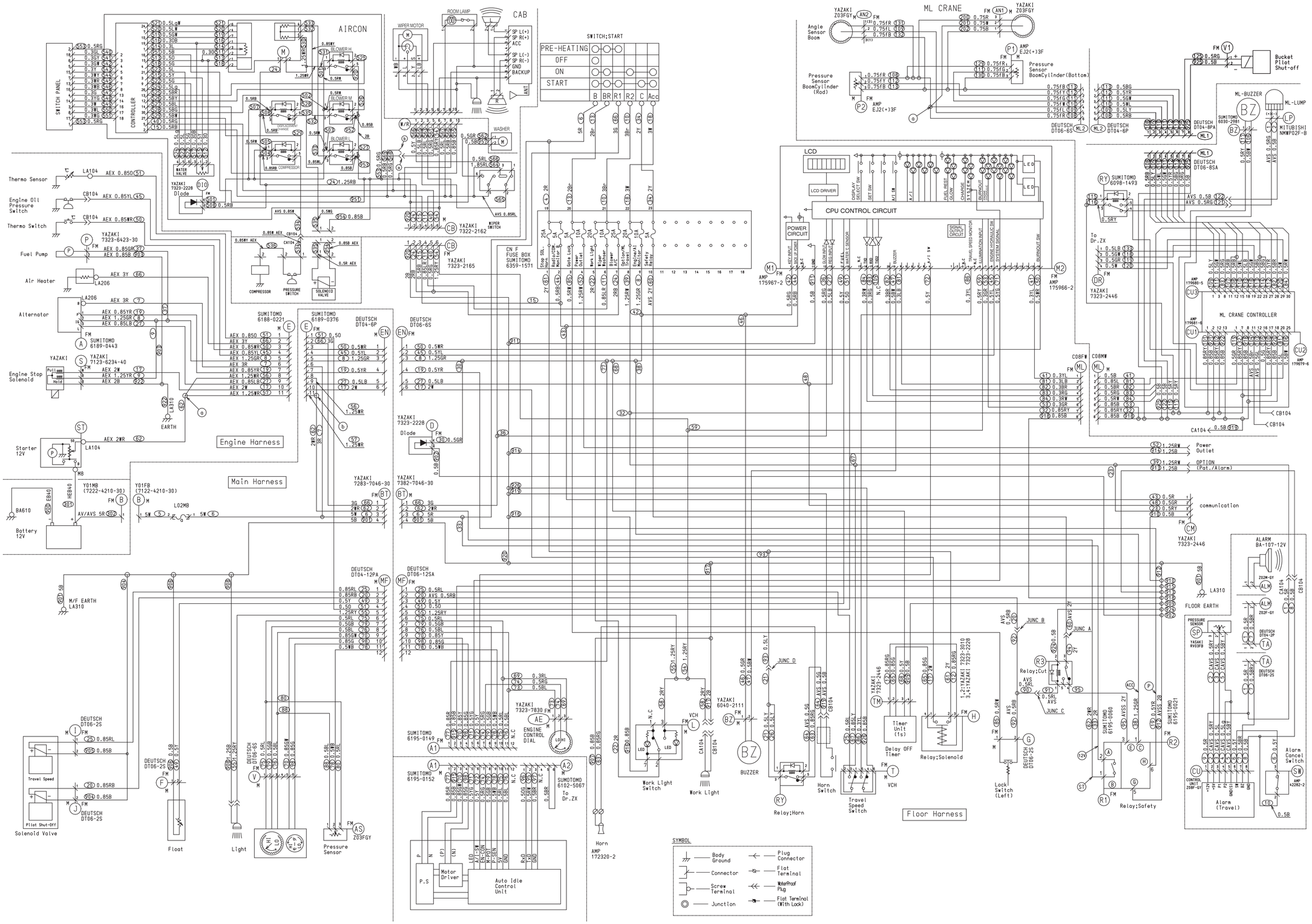
ZAXIS40U-2/50U-2 HYDRAULIC CIRCUIT DIAGRAM



Attach to Vol. No. : T1M7-E-00,T1M9-E-00

ML specification is only available Japanese domestic market.

ZAXIS30U-2/35U-2/40U-2/50U-2 ELECTRICAL CIRCUIT DIAGRAM



TIGHTENING TORQUE SPECIFICATIONS

No.	Descriptions		Bolt Dia. mm	Q'ty	Wrench Size mm	Torque		
						N·m	(kgf·m)	(lbf·ft)
1.	Engine cushion rubber mounting bolt		12	4	19	88	(9)	(65)
2.	Engine bracket mounting bolt (Front)		10	8	17	49	(5)	(36)
3.	Hydraulic oil tank mounting bolt		12	4	19	88	(9)	(65)
4.	Fuel tank mounting nut		10	3	17	20	(2)	(15)
5.	Union joints for hydraulic hoses and pipes	Metal face seal fitting for hydraulic hoses and piping	7/16-20UNF		17	24.5	(2.5)	(18)
			9/16-18UNF		19	29.5	(3)	(22)
					22	39	(4)	(29)
			3/4-16UNF		27	93	(9.5)	(69)
			1-1/16-12UNF		36	175	(18)	(129)
			1-5/16-12UNF		41	205	(21)	(151)
		ORS	9/16 UNF		19	44	(4.5)	(32)
			11/16 UNF		22	74	(7.5)	(55)
			13/16 UNF		27	103	(10.5)	(76)
6.	Pump mounting bolt		12	2	10 (Socket)	88	(9)	(65)
7.	Pump cover mounting bolt		10	8	17	49	(5)	(36)
8.	Control valve mounting bolt		10	4	17	49	(5)	(36)
	Control valve base mounting bolt		10	4	17	49	(5)	(36)
9.	Swing device mounting bolt		16	8	24	205	(21)	(101)
10.	Battery mounting nut		6	2	10	5	(0.5)	(3.5)
11.	Canopy mounting bolt		12	5	19	88	(9)	(65)
			10	5	17	49	(5)	(36)
12.	Cab mounting bolt		12	5	19	88	(9)	(65)
			10	5	17	49	(5)	(36)
13.	Swing bearing mounting bolt	Upperstructure	12	27	19	108	(11)	(80)
		Undercarriage	12	24	19	108	(11)	(80)
14.	Travel device mounting bolt		14	24	22	175	(18)	(130)
15.	Sprocket mounting bolt		14	24	22	175	(18)	(130)
16.	Upper roller mounting bolt		16	2	24	231	(23.5)	(170)
17.	Lower roller mounting bolt		14	16	22	177	(18)	(130)
18.	Cover mounting bolt		6		10	5	(0.5)	(3.5)
			8		13	9.8	(1)	(7)
			10		17	49	(5)	(36)
19.	Counterweight mounting bolt		24	3	36	930	(95)	(398)
20.	Front pin lock plate bolts		10		17	49	(5)	(36)
			12		19	88	(9)	(65)
			14		22	137	(14)	(101)
			16		24	205	(21)	(152)
			18		27	390	(40)	(290)
21.	Side-cutter mounting bolts		14	6	22	175	(18)	(130)
22.	Track roller guard mounting bolt		16	12	24	265	(27)	(196)

NOTE: (1) Apply lubricant (i.e. white zinc B dissolved into spindle oil) to reduce their friction coefficients.

(2) Remove rust, dirt, and dust before installing fasteners.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Item	ZAXIS40U-2	ZAXIS50U-2	Remarks
HYDRAULIC CYCLE TIME sec			Refer to T4-4-10
Boom Raise (Canopy Version)	2.0±0.3	2.2±0.3	
Boom Lower (Canopy Version)	2.6±0.3	3.0±0.3	
Arm Roll-In	2.6±0.5	2.7±0.5	
Arm Roll-Out	2.1±0.3	2.2±0.3	
Bucket Roll-In	2.3±0.3	2.6±0.3	
Bucket Roll-Out	1.7±0.3	1.8±0.3	
Right Boom Swing	7.0±0.5	←	
Left Boom Swing	7.0±0.5	←	
Blade Raise	2.5±0.5	2.5 ± 0.6	
Blade Lower	3.1±0.5	3.1 ± 0.6	
DIG FUNCTION DRIFT mm/5 min			Bucket loaded Refer to T4-4-12
Boom Cylinder	5 or less	←	
Arm Cylinder	8 or less	←	
Bucket Cylinder	5 or less	←	
Bucket Bottom	100 or less	←	
Blade Cylinder	3 or less	←	
Blade Cylinder (When jacked up)	15 or less	←	
Boom Swing Cylinder	3 or less	←	
CONTROL LEVER/PEDAL OPERATING FORCE N (kgf, lbf)			HITACHI Lever Pattern Refer to T4-4-13
Boom Lever	11.0 or less (1.1, 2.5 or less)	←	
Arm Lever (ISO Lever Pattern: Swing)	11.0 or less (1.1, 2.5 or less)	←	
Bucket Lever	11.0 or less (1.1, 2.5 or less)	←	
Swing Lever (ISO Lever Pattern: Arm)	11.0 or less (1.1, 2.5 or less)	←	
Travel Lever	17.0 or less (1.7, 3.8 or less)	←	
Blade Lever	19.0 or less (1.9, 4.3 or less)	←	
Boom Swing Pedal	54.0 or less (5.5, 12.2 or less)	←	

PREVIEW - YOUFIXTHIS.COM

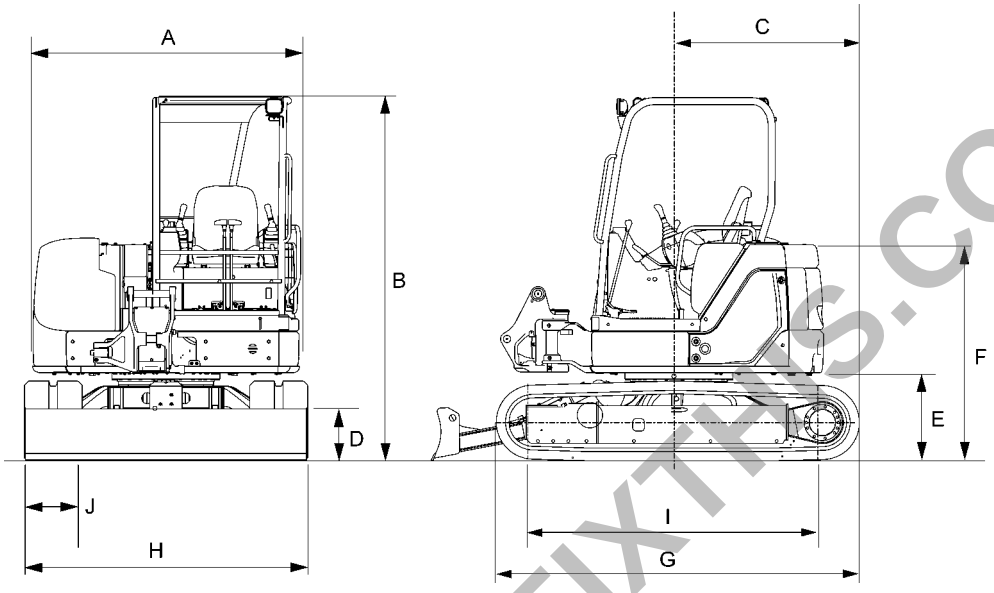
Download full manual at youfixthis.com

Item	ZAXIS40U-2	ZAXIS50U-2	Remarks
CONTROL LEVER/PEDAL STROKE mm (in)			HITACHI Lever Pattern Refer to T4-4-14
Boom Lever	100±10 (3.9±0.4)	←	
Arm Lever (ISO Lever Pattern: Swing)	95±10 (3.7±0.4)	←	
Bucket Lever	95±10 (3.7±0.4)	←	
Swing Lever (ISO Lever Pattern: Arm)	100±10 (3.9±0.4)	←	
Travel Lever	100±10 (3.9±0.4)	←	
Blade Lever	55±10 (2.2±0.4)	←	
Boom Swing Pedal	18±5 (0.7±0.2)	←	
BOOM RAISE/SWING (Bucket Empty)			Refer to T4-4-15
Height mm	3000 or more	←	
Time sec	2.3±0.3	←	
PRIMARY PILOT PRESSURE MPa (kgf/cm^2, psi)	6.6±0.5 (67±5, 960±73)	←	Refer to T4-5-1
SECONDARY PILOT PRESSURE MPa (kgf/cm^2, psi)	2.9±0.5 (30±5, 422±73)	←	Refer to T4-5-2
MAIN RELIEF VALVE SET PRESSURE MPa (kgf/cm^2, psi)			Measure at Machine Refer to T4-5-3
Main Pumps P1	25.3±1.0 (258±10, 3678±145)	←	
Travel	25.5±1.0 (260±10, 3707±145)	←	
Swing	21.6±1.0 (220±10, 3140±145)	←	
OVERLOAD RELIEF VALVE SET PRESSURE MPa (kgf/cm^2, psi)			Measure at Bench Refer to T4-5-6
Boom, Arm, Bucket	26.5±1(270±10, 3852±145)	←	
SWING MOTOR DRAINAGE L/min (gal)			Refer to T4-5-8
at constant speed	0.5 or less (0.1 or less)	←	
TRAVEL MOTOR DRAINAGE L/min (gal)			Refer to T4-5-10
at constant speed (Fast/Slow)	0.3 or less / 0.2 or less (0.08 or less / 0.05 or less)	←	

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

SPECIFICATIONS

ZAXIS40U-2



T1M9-01-01-001

·The above indicates construction for 4-Piller Canopy Version

Type		ZAXIS40U-2		
		2-Piller Canopy	4-Piller Canopy	Cab
Type of Front-End Attachment		Boom Swing Type		
Bucket Capacity (Heaped)	m^3 (yd^3)	0.14 (0.18)		
Operating Weight	kg (lb)	4260 (9392)	4330 (9540)	4450 (9810)
Basic Machine Weight	kg (lb)	3190 (7030)	3230 (7121)	3380 (7452)
Engine	kW/min^{-1} (PS/rpm)	YANMER 4TNV88 29.8/2500 (40.5/2500)		
A: Overall Width	mm (ft·in)	1870 (6′2″)		
B: Overall Height	mm (ft·in)	2540 (8′4″)	2510 (8′3″)	2550 (8′4″)
C: Rear-End Swing Radius	mm (ft·in)	980 (3′3″)		
D: Minimum Ground Clearance	mm (ft·in)	335 (1′1″)		
E: Counterweight Height	mm (ft·in)	605 (1′11″)		
F: Engine Cover Height	mm (ft·in)	1510 (4′11″)		
G: Undercarriage Length	mm (ft·in)	2540 (8′4″)		
H: Undercarriage Width	mm (ft·in)	1960 (6′5″)		
I: Sprocket Center to Idler Center	mm (ft·in)	2000 (6′7″)		
J: Track Shoe Width	mm (ft·in)	400 (1′4″) (Rubber Crawler)		
Ground Pressure	kPa (kgf/cm^2, psi)	27 (0.28, 3.9)		28 (0.29, 4.1)
Swing Speed	min^{-1} (rpm)	9.3 (9.3)		
Travel Speed (fast/slow)	km/h (mph)	4.5/2.8 (2.8/1.7)		
Gradeability	Degree (%)	30 (58)		

NOTE: The dimensions do not include the height of the shoe lug.
Weight for the cab version is included air conditioner unit.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 6 of 1208 pages

The full manual includes:

- All 1208 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Hitachi Zaxis 40U-2 50U-2 Repair Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual