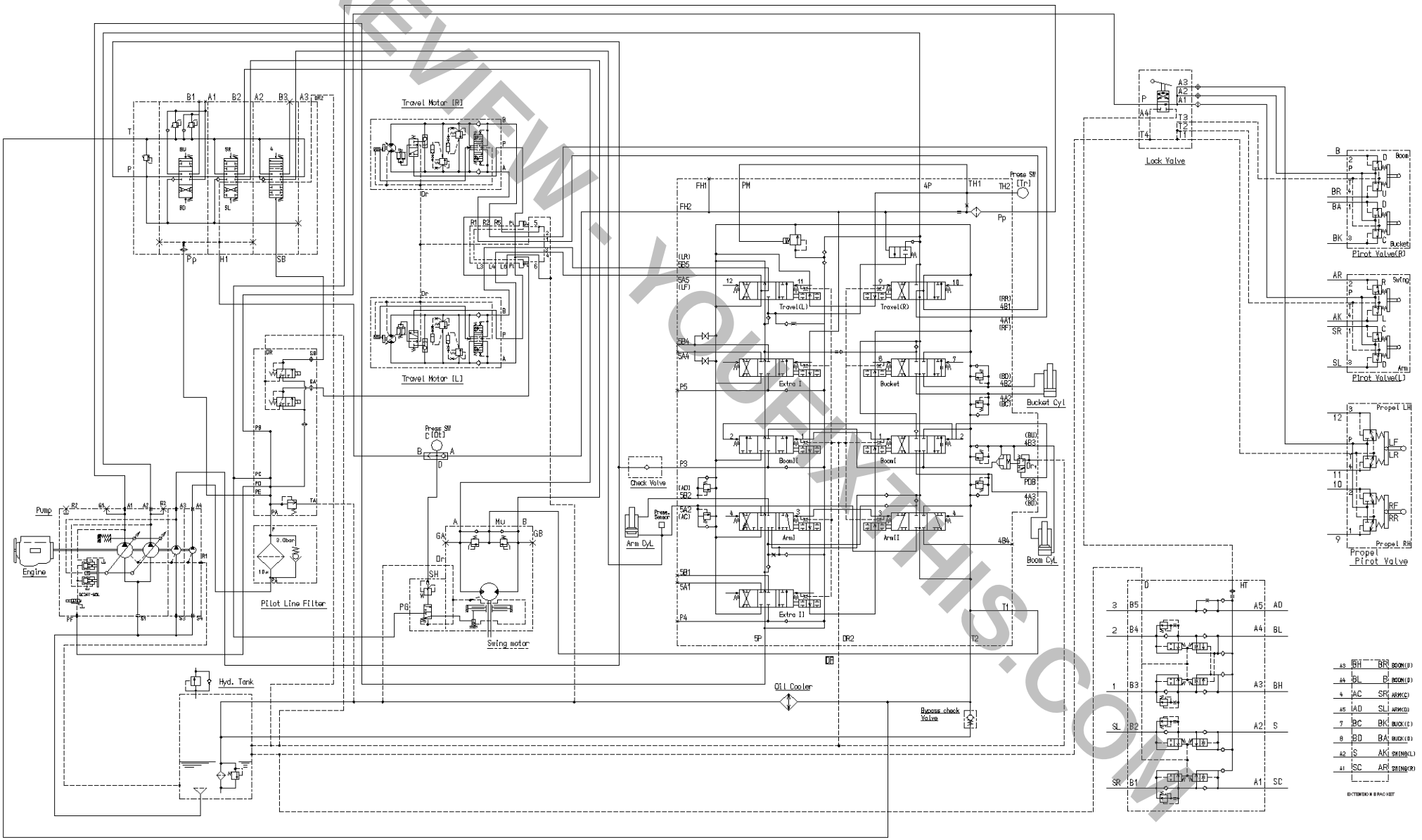
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ATTACH TO VOL.NO : TT1CCE-00

ZAXIS75US HYDRAULIC CIRCUIT DIAGRAM

NOTE: Refer to the PERFORMANCE STANDARD in the technical manual for the relief valve pressure satting value.



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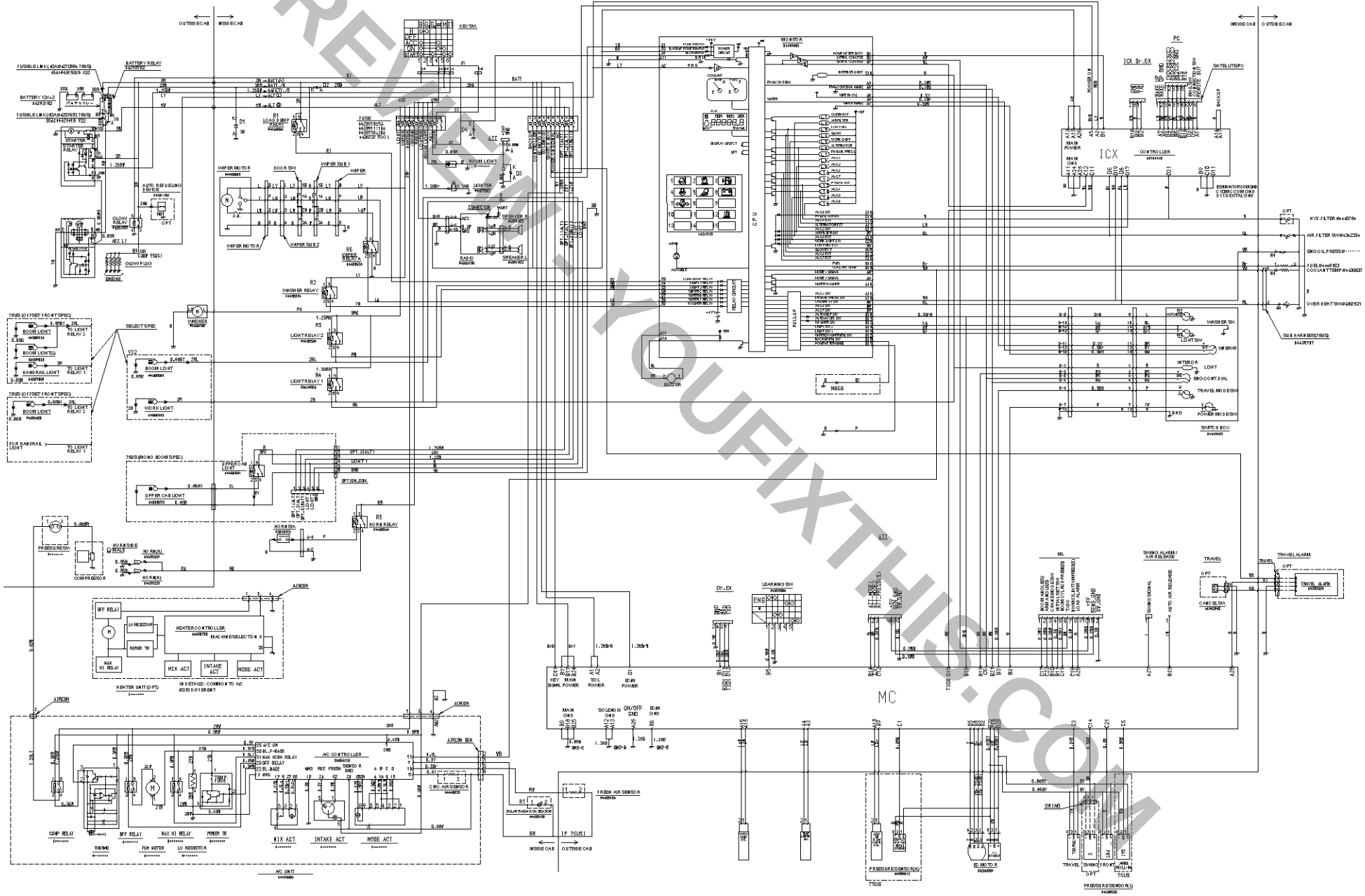
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ATTACH TO VOL.NO : TT1CCE-00

ZAXIS75US ELECTRICAL CIRCUIT DIAGRAM (1)

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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TIGHTENING TORQUE SPECIFICATIONS

No.	Descriptions	Bolt Dia mm	Q'ty	Wrench Size (mm)	Torque N·m	Torque (kgf·m)	Torque (lbf·ft)
1	Engine cushion rubber mounting nut	14	4	22	140	(14.3)	103
	Engine cushion rubber mounting bolt	16	4	24	270	(27.5)	200
2	Engine bracket mounting bolt and nut	10	8	17	50	(5.1)	37
3	Hydraulic oil tank mounting bolt	16	4	24	210	(21.5)	155
4	Fuel tank mounting bolt	16	4	24	270	(27.5)	200
5	ORS fittings for hydraulic hoses and piping			19	29.5	(3)	22
				22	39	(4)	29
				27	93	(9.5)	69
				32	137	(14)	101
				36	175	(18)	129
				41	205	(21)	151
6	Pump mounting bolt	12	4	19	90	(9.2)	66
7	Control valve mounting bolt	14	3	22	180	(18.4)	133
8	Control valve bracket mounting bolt	14	4	22	140	(14.3)	103
9	Swing device mounting bolt	16	10	24	210	(21.5)	155
10	Battery mounting nut	10	4	17	20	(2.0)	15.0
11	Cab mounting nut	16	4	24	210	(21.5)	155
12	Swing bearing mounting bolt to upperstructure	16	22	24	270	(27.5)	200
	Swing bearing mounting bolt to undercarriage	10	24	24	270	(27.5)	200
13	Travel device mounting bolt	16	20	24	300	(31)	220
	Travel reduction device cover mounting bolt	14	8	22	140	(14.3)	103
14	Sprocket mounting bolt	16	24	24	270	(27.5)	200
15	Upper roller mounting bolt	14	2	22	140	(14.3)	103
16	Lower roller mounting bolt	14	40	22	245	(25)	180
17	Track shoe bolt	14	296	22	245	(25)	180
18	Cover mounting bolt	6		10	10	1	7.4
		10		17	50	5.1	37
		12		19	90	9.2	66
19	Coupling and T-bolt clamp of low pressure piping	8	–	13	10.3 to 12.4	(1.05 to 1.26)	(7.6 to 9.1)
		5	–	8	2.9	(0.3)	(2.1)
		6	–	11	5.9	(0.6)	(4.4)
20	Side-cutter mounting bolt	20	6	30	540	55	(400)

NOTE 1. Apply lubricant (e.g. white zinc B dissolved into spindle oil) to bolts and nuts to reduce friction coefficient of them.
2. Make sure bolt and nut threads are clean before installing.

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OPERATIONAL PERFORMANCE STANDARD TABLE

The standard Performance values are listed in the table below.Refer to the Group T4-2 to T4-4 for performance test procedures.Values indicated in parentheses are reference values.

* The following switch positions shall be selected:
Engine Control Dial: Fast Idle
Power Mode Switch: P Mode
Oil Temperature: 50±5 °C

PERFORMANCE TEST DESIGNATION	Performance Standard	Remarks
ENGINE SPEED min^{-1}		
Fast Idle(Normal)	1920±100	
Fast Idle(When relieving)	1950±100	Boom Raise
Fast Idle(E Mode)	1800±50	
Slow Idle	1050^{+100}_{-50}	
Auto-Idle	1200±100	
ENGINE COMPRESSION PRESSURE (After warming up) MPa (kgf/cm^2)	2.9±0.2 (30±2)	
VALVE CLEARANCE(IN, EX) mm	0.4	With the engine cold
NOZZULE INJECTION PRESSURE MPa (kgf/cm^2)	18.1(185)	
INJECTION TIMING(Degrees before TDC) deg.	13°	
TRAVEL SPEED sec/20 m		
Fast Speed	16.0±2.0	
Slow Speed	24.8±2.5	
TRACK REVOLUTION SPEED sec/3 rev		
Fast Speed	14.1±1.0	
Slow Speed	22.6±2.0	
MISTRACK(in fast and slow speed mode) mm/20 m	200 or less	
TRAVEL PARKING FUNCTION CHECK mm/5 min	0	
SWING SPEED sec/3 rev	19.0±1.0	
SWING FUNCTION DRIFT CHECK mm /180°	250 or less	
SWING MOTOR LEAKAGE mm/5 min	0	
MAXIMUM SWINGABLE SLANT ANGLE deg.	19.0 or possibly more	
SWING BEARING PLAY mm	(0.2 to 1.0 or less)	Allowable Limit: (2.2 to 3.0)
HYDRAULIC CYLINDER CYCLE TIME sec	Standard Boom 1.62 m Arm 0.28 m^3 (PCSA heaped) Bucket	Offset Front
Boom Raise	3.2±0.4	(3.3±0.4)
Boom Lower	2.7±0.4	(2.8±0.4)
Arm Roll-In	3.1±0.4	(3.0±0.4)
Arm Roll-Out	2.4±0.4	(2.4±0.4)
Bucket Roll-In	3.5±0.4	(3.5±0.4)
Bucket Roll-Out	2.2±0.4	(2.2±0.4)
Blade Raise	2.1±0.4	(2.1±0.4)
Blade Lower	2.5±0.4	(2.5±0.4)
Offset (R to L)	-	(4.0±0.3)
Offset (L to R)	-	(3.8±0.3)

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SWING FUNCTION DRIFT CHECK

Summary:
Measure the swing drift on the bearing outer circumference when stopping after a 180° full-speed swing.

Preparation:
1. Check the lubrication of the swing gear and swing bearing.
2. Place the machine on flat, solid ground with ample space for swinging. Do not conduct this test on a slope.
3. With the arm rolled out and bucket rolled in, hold the bucket so that the height of the bucket pin is the same as the boom foot pin. The bucket must be empty.
4. Make two chalk marks: one on the swing bearing and one directly below it on the track frame.
5. Swing the upperstructure 180°.
6. Maintain the hydraulic oil temperature at 50±5 °C (122±9 °F).

CAUTION: Prevent personal injury. Always make sure that the area is clear and that co-workers are out of the swing area before starting the measurement.

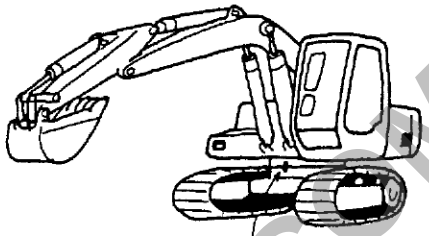
Measurement:
1. Select the following switch positions:

Engine Control Dial	Power Mode Switch	Auto-Idle Switch
Fast Idle	P Mode	OFF

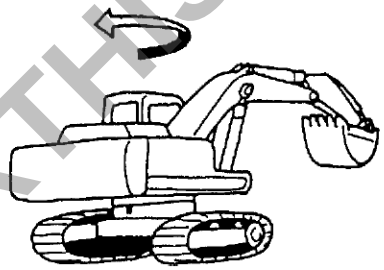
2. Operate the swing control lever fully and return it to the neutral position when the mark on the upperstructure aligns with that on the track frame after swinging 180°.
3. Measure the distance between the two marks.
4. Align the marks again, swing 180°, then test in the opposite direction.
5. Repeat steps 3. to 5. three times each and calculate the average values.

Evaluation:
Refer to the Performance Standard Table in Group T4-5.

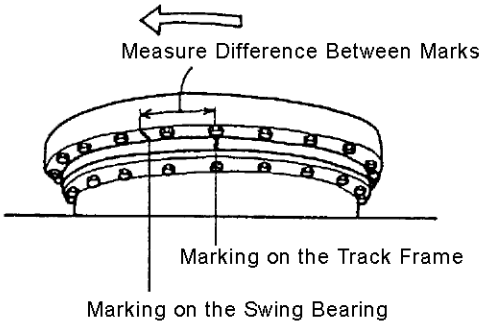
Remedy:
Refer to the Troubleshooting B in Group T5-4.



T105-06-03-008



T105-06-03-009

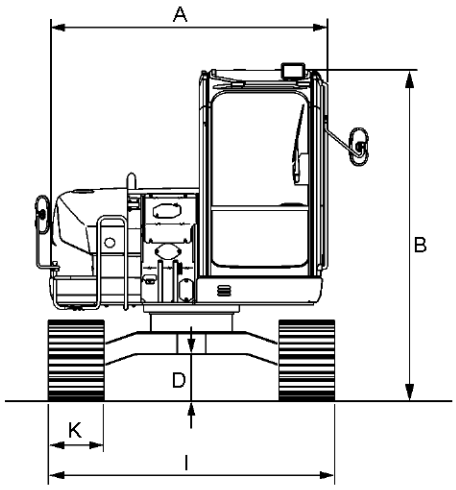


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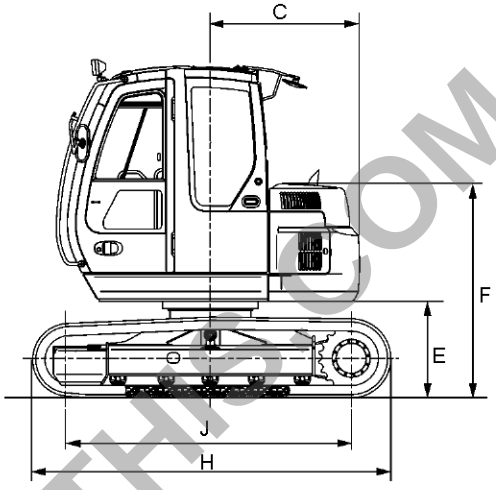
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SPECIFICATIONS



M1CC-12-002



M1CC-12-001

Model		ZAXIS75US
Front-End Attachment Type	—	1.62 m Arm
Bucket Capacity (Heaped)	—	PCSA: 0.28 m^3 (0.37 yd^3), CECE: 0.24 m^3
Operating Weight	kg (lb)	7100 (15700)
Basic Machine Weight	kg (lb)	5890 (13000)
Engine	—	ISUZU A-4JG1 40.5 kW / 1900 min^{-1} (55 PS / 1900 rpm)
A: Overall Width	mm (ft in)	2250 (7’ 5”)
B: Cab Height	mm (ft in)	2690 (8’ 10”)
C: Rear End Swing Radius	mm (ft in)	1210 (4’ 0”)
D: Minimum Ground Clearance	mm (ft in)	355 * (1’ 2”)
E: Counterweight Clearance	mm (ft in)	760 * (2’ 6”)
F: Engine Cover Height	mm (ft in)	1710 * (5’ 7”)
H: Undercarriage Length	mm (ft in)	2920 (9’ 7”)
I: Undercarriage Width	mm (ft in)	2320 (7’ 7”)
J: Sprocket Center to Idler Center	mm (ft in)	2290 (7’ 6”)
K: Track Shoe Width	mm (ft in)	450 (1’ 6”) (Grouser Shoe)
Ground Pressure	kPa (kgf/cm^2, psi)	34 (0.34, 4.8)
Swing Speed	min^{-1} (rpm)	10
Travel Speed (Fast/Slow)	km/h (mph)	4.5/2.9 (2.8/1.8)
Gradeability	Degree (%)	35 (70)

*NOTE: Dimensions marked * don’t include the shoe lug height.*

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