NEW HOLLAND

COMPACT EXCAVATORS

E15

SERVICE MANUAL

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E15 SHOP MANUAL

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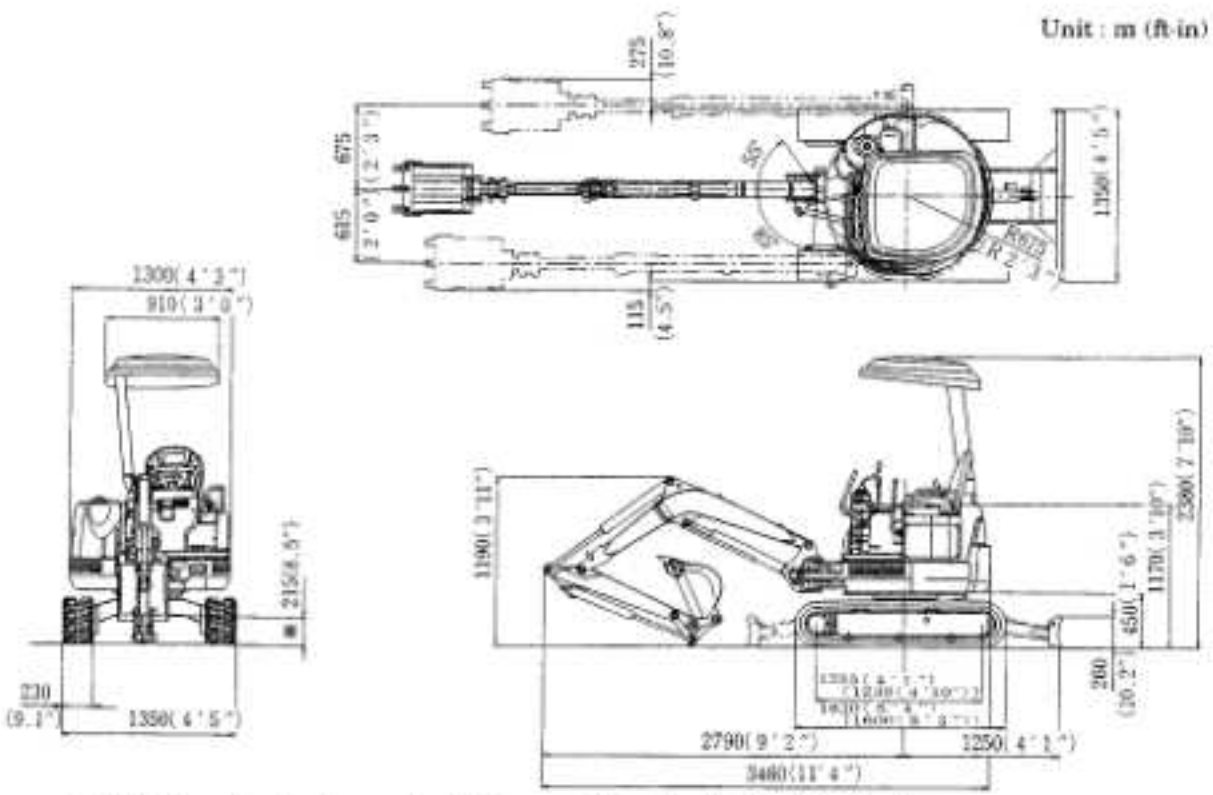
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2.2 GENERAL DIMENSIONS

2.2.1 CANOPY SPECIFICATIONS

Unit : m (ft-in)



NOTE : Numerical values marked ※ do not include the height of the shoe lug.
Numerical values enclosed in parentheses [ ] indicate steel crawler specifications.

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25.2 CONNECTION AND CONNECTOR TABLES

25.2.1 MAIN HARNESS CONNECTION TABLE

WIRE NO	WIRE COLOR	WIRE SIZE	FROM	CONNECTION	TO	FUNCTION
1	LR	AVS1.25sq	CN-303F		CN-312F	FUSE BOX → CAB
2	Y	AVSS0.75sq	CN-102F		CN-301F	CONTROL CUT LS → FUSE BOX
3	RW	AVSS0.75sq	CN-301F		CN-306F	NOT USED ON THIS MACHINE
4A	LR	AVSS0.75sq	F-3		CN-340F	HORN SWITCH → J/C-ORANGE
4B	LR	AVSS0.75sq	CN-312F		CN-340F	CAB → J/C-ORANGE
4C	LR	AVSS0.75sq	CN-301F		CN-340F	FUSE BOX → J/C-ORANGE
5	RL	AVSS0.75sq	CN-301F		CN-320F	FUSE BOX → E/G STOP SOL
8	R	AVS85sq	CN-302F		CN-305M	KEY SWITCH → STARTER MOTOR
14	W	AVS25sq	CN-302F		CN-320F	SAFETY RELAY → STARTER MOTOR
17	PB	AVSS0.75sq	F-2		T-4	HORN SWITCH → HORN
33A	O	AVS1.25sq	F-1		CN-340F	WORK LIGHT (BOOM) → J/C-ORANGE
33B	O	AVS1.25sq	CN-312F		CN-340F	WORK LIGHT (CAB) → J/C-ORANGE
33C	O	AVS1.25sq	CN-303F		CN-340F	LIGHT RELAY → J/C-ORANGE
39	GW	AVSS0.75sq	CN-102F		CN-321F	CONTROL CUT LS → CONTROL CUT SOL
41	BrW	AVSS0.75sq	CN-301F		CN-322F	TRAVEL 2-SPEED RELAY → TRAVEL 2-SPEED SOL
45	BW	AVSS0.75sq	CN-301F		F-4	CLUSTER GAUGE → TRAVEL 2-SPEED SWITCH
46	WB	AVSS0.75sq	CN-301F		F-5	CLUSTER GAUGE → TRAVEL 2-SPEED SWITCH
47	L	AVS5sq	CN-302F		CN-305M	CLUSTER GAUGE → GLOW PLUG
50	GB	AVSS0.75sq	CN-301F		CN-320F	CLUSTER GAUGE → HYD SWITCH
51	YB	AVSS0.75sq	CN-301F		CN-320F	CLUSTER GAUGE → E/G THERMO SWITCH
52	YR	AVSS0.75sq	CN-301F		CN-320F	CLUSTER GAUGE → E/G THERMO SENSOR
53	RG	AVSS0.75sq	CN-301F		CN-320F	CLUSTER GAUGE → AIR CLEANER ALARM SWITCH
55	YW	AVSS0.75sq	CN-301F		CN-101F	CLUSTER GAUGE → FUEL SENSOR
58	YG	AVSS0.75sq	CN-301F		CN-101F	CLUSTER GAUGE → FUEL SENSOR
60	GL	AVSS0.75sq	CN-301F		CN-306F	NOT USED ON THIS MACHINE
63	BY	AVSS0.75sq	CN-301F		CN-306F	NOT USED ON THIS MACHINE
64	L	AVSS0.75sq	CN-301F		CN-306F	NOT USED ON THIS MACHINE
70	R	AVS25sq	CN-302F		CN-305M	E/G STOP RELAY → E/G STOP SOL
83	Sb	AVS25sq	CN-303F		CN-320F	CURRENT LIMITER → GENERATER
84	W	AVS25sq	CN-303F		CN-320F	CURRENT LIMITER → GENERATER
E1	B	AVS25sq	CN-305M		P-4	E/G STOP SOL → BODY EARTH
E2	B	AVSS0.75sq	CN-306F		CN-340F	NOT USED ON THIS MACHINE
E3	B	AVSS0.75sq	CN-322F	ORANGE SPLICE	P-2	TRAVEL 2-SPEED SOL → BODY EARTH
E4	B	AVSS0.75sq	CN-321F		P-2	CONTROL CUT SOL → BODY EARTH
E5	B	AVSS0.75sq	T-3		P-1	HORN → BODY EARTH
E6	B	AVS1.25sq	CN-312F		CN-340F	CAB → J/C-ORANGE
E7	B	AVS1.25sq	M-1		CN-340F	BOOM WORK LIGHT → J/C-ORANGE
E8	B	AVSS0.75sq	CN-101F		CN-340F	FUEL SENSOR → J/C-ORANGE
E9	B	AVS1.25sq	CN-303F		CN-340F	IMS HARNESS → J/C-ORANGE
E10	B	AVS1.25sq	CN-303F		CN-340F	IMS HARNESS → J/C-ORANGE
E11	B	AVS1.25sq	P-3	WHITE SPLICE	CN-340F	J/C-ORANGE → BODY EARTH
E12	B	AVS1.25sq	P-3		CN-340F	J/C-ORANGE → BODY EARTH

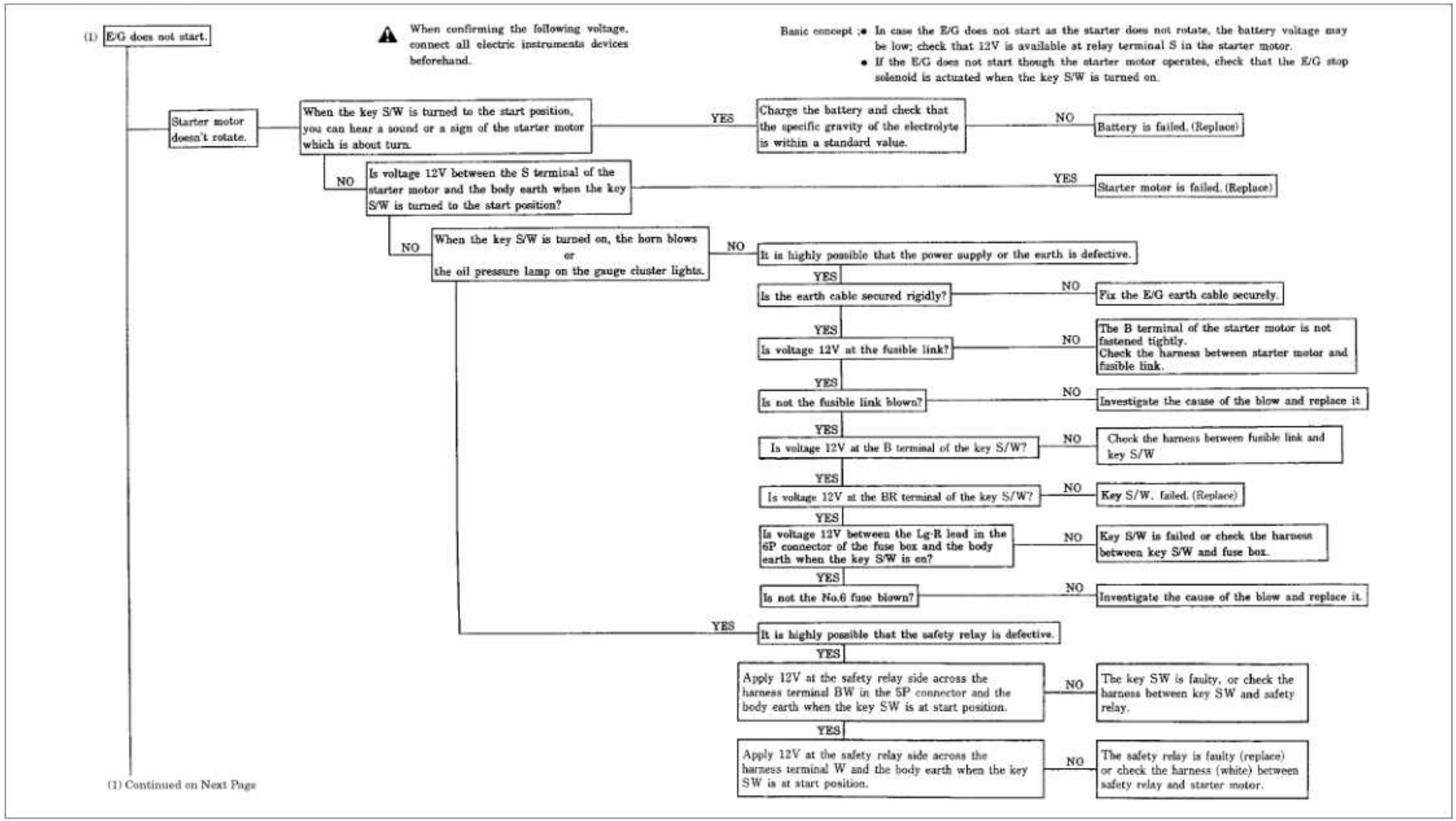
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29.3 TROUBLESHOOTING DIAGRAMS

29.3.1 ENGINE (E/G)

29.3.1.1 ENGINE DOES NOT START



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SECTION 2 - SYSTEMS
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29.2 TROUBLESHOOTING CHART

29.2.1 DIAGNOSTICS TABLE AND ABBREVIATIONS TABLE

Class	Reference No.	Parts / Malfunction condition		Engine				Electric unit															Hydraulic unit														
								Power supply system				Power generation and stop system							Operation system and others					Pump			Valve							Actuator		
				Fuel system	Cooling system	Lubrication system	Suction exhaust system and others	Battery	Fusible link	Fuse	Key switch	Safety Relay	Starter motor	Alternator & Air heater	Battery relay	Timer unit	E/G Stop relay	E/G Stop SOL	Gauge cluster	Control cut Limit switch	Control cut SOL	Travel 1,2-speed SW&SOL	Travel lock motor & relay	Main pump	Trochoid pump	Gear pump	Travel & ATT main R/V	Main gear pump R/V	Ports R/V	Travel spool	ATT spool	Check valve	Shuttle valve	Slewing motor unit	Travel motor unit	Hydraulic cylinder
Engine	1	Not start.	Starter doesn't rotate.	○				○	○	○	○	○	○	○	○																					
			Starter rotate.	○				○								○	○	○																		
	2	Starts, but stops.		○												○																				
	3	Not stop.														○	○	○																		
	4	The engine malfunctions.		○	○		○																													
Pump	5	The engine revolution falls when loaded.																						○												
	6	The pump malfunctions.																						○	○	○										
Travel	7	Travel operations is unavailable.								○										○	○		○						○						○	
	8	Travel speed is slow.					○												○			○	○	○						○					○	
	9	Travel power is poor.																	○			○					○		○						○	
	10	Travel motion deflects.																						○					○						○	
Slewing	11	Slewing operation unavailable.																	○	○										○			○			
	12	Slewing speed is slow.					○																	○												
	13	Slewing power is poor.																									○	○					○			
	14	Slewing operations is unavailable.																												○		○	○			
Attachment	15	Attachment is unoperatable.																	○	○				○					○							
	16	Attachment speed is slow.					○																	○						○						○
	17	Attachment power is poor.																									○		○							○
	18	Attachment operation is unavailable.																												○						○

Table of Abbreviations

ATT	ATTACHMENT
C/V	CONTROL VALVE
E/G	ENGINE
R/V	RELIEF VALVE
SOL	SOLENOID
SW	SWITCH
V	VALVE

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