

AREA A



OCE TO OF

AREA C



AREA D





HARNESS CONNECTOR AND COMPONENT LOCATIONS

		COMPONENT LC	CATION C	HART
Vehicle Location	Components	Schematic Location	Vehicle Location	Components
1	Actuator - Governor	C-7	19	Sensor – Engine Coolant Temperature
ЗА	Alarm – Action	D-2	20	Sensor – Fuel Level
2	Alarm – Travel	E-12	ЗF	Sensor – Hydraulic Oil Temperature
3	Alternator	C-12	21	Sensor – Speed
4	Antenna	C-6	22	Solenoid – Air Conditioner Compress Clutch
5	Battery	E-10	6F	Solenoid - Creeper Speed Control
1D	Block – Terminal	D-9	7F	Solenoid - Creeper Speed Control
4D	Breaker	D-8	23	Solenoid – Engine Stop
6	Controller	B-7	24	Solenoid – Fine Swing
ЗB	Dial – Engine Speed	C-2	25	Solenoid – Hammer Control
6D	Fuse – Block	F-7,F-8,F-9	4F	Solenoid – Level
7	Heater – Air	C-11	1F	Solenoid - Travel Speed
34	Heater – Seat	E-4	2F	Solenoid - Trenching
8	Horn	A-2, B-2	26	Speaker
9	Lamp – Boom	A-2, B-2	27	Switch – Aux Hydraulic Press
10	Lamp – Cab	E-1, F-1	ЗE	Switch – Boom Raise Press
11	Lamp – Chassis	A-2	5C	Switch - Creeper Speed Control
12	Lamp – Dome	C-6	5D	Switch - Disconnect
1A	Lighter – Cigar	E-3	28	Switch – Engine Oil Press
2A	Meter - Service	E-2	4B	Switch – Fine Swing Control
4A	Monitor	E-2	6B	Switch – Governor Backup
13	Motor – Lower Wiper	F-2	9B	Switch - Hammer Control
14	Motor – Starter	B-12	4C	Switch - Heater
15	Motor – Washer	E-12	зC	Switch – Horn
16	Motor – Wiper	F-2	1E	Switch - Implement Swing Press
17	Pump – Refueling	A-3	2B	Switch - Low Idle
18	Radio	C-6	7B	Switch – Lower Washer
7D	Relay – Boom Lamp	E-8	8B	Switch – Lower Wiper
7D	Relay – Chassis/Cab Lamp	E-8	29	Switch – Neutral Start
7D	Relay - Fine Swing	E-9	2C	Switch – Pump Backup
8D	Relay – Heater	D-7	30	Switch - Refrigerant Low Press
7D	Relay – Horn	E-7	31	Switch - Refueling
ЗD	Relay – Main	D-7	32	Switch - Refueling Pump
7D	Relay – Refueling Pump	E-7	5B	Switch - Speed Change
9D	Relay – Safety	E-8	1B	Switch - Starter
2D	Relay – Starter	B-12	2E	Switch - Travel Press
7D	Relay – Washer	E-8	33	Unit – Air Conditioner
7D	Relay – Wiper	E-9	5F	Valve - Proportional Reducing
1C	Resistor – Backup	E-5		

Area A = Components in monitor panel.

Area B = Components in operator's R.H. console. Area C = Components in operator's L.H. console. Area F = Components near pilot oil manifold.

Area D = Components in relay panel.

Area E = Components near main control valve.

		HARNESS C	ONNECTO	OR LOCATION	I CHART		
Connectors	Connector No. And Vehicle Location	Harness And/or Components	Schematic Location	Connectors	Connector No. And Vehicle Location	Harness And/or Components	Schema Locatio
	CONN1	A - 5I - 8326			CONN32	D – 5I – 8217	
40 Contacts	*	Controller	B-7		6	Wiper Motor	F-2
	CONN2	A – 5I – 8326	A-7 4 Contacts	CONN30	E – 7Y – 3898		
24 Contacts	*	Controller		4 Contacts	O A	Monitor	E-2
	CONN9	A – 5I – 8326			CONN12	F - 5I - 8216	
	6 D	B – 5I – 8325	D-10		0	R – 7Y – 8139	C-6
	CONN8	A – 5I – 8326		3 Contacts	CONN25	A - 51 - 8326	
	4D	B – 5I – 8325	E-10		6	H – 5I – 8235	D-3
	CONN13	A – 5I – 8326			CONN21	J – 7Y – 3921	
	4 A	F – 5I – 8216	C-5		• В	Lower Wiper Switch	C-3
	CONN3	A - 5I - 8326			CONN43	R – 7Y – 8139	B-6
	3D	G – 5I – 8236	E-9		9	Speaker	
	CONN5	A – 5I – 8326			CONN29	A - 51 - 8326	
	1D	G – 5I – 8236	F-9		•	Aux Hydraulic Press Switch	E-2
	CONN6	A – 5I – 8326			CONN16	A - 5I - 8326	
	2D	G – 5I – 8236	F-9		2C	Backup Resistor	E-5
10 Contacts	CONN24	A - 51 - 8326			CONN23	A - 5I - 8326	
	0	H– 5I – 8236	D-3		0	K – 7Y – 3868	F-3
	CONN18	A – 5I – 8326			CONN40	B – 5I – 8325	
	Ов	J – 7Y – 3921	D-4		Ð	Air Conditioner Compress Clutch Solenoid	C-12
	CONN17	A – 5I – 8326	E-5		CONN50	B – 5I – 8325	B-10
	1 C	L – 5I – 8245			O E	Boom Raise Press Switch	
	CONN4	B – 5I – 8325	D-9		CONN34	B – 5I – 8325	A-3
	ØD	G – 5I – 8236			•	C - 4I - 5361	
	CONN57	R – 7Y – 8139	C-6		CONN49	B - 5I - 8325	A-5
9 Contacts	0	Radio			•	Fuel Level Sensor	
	CONN14	A – 5I – 8326	C-5		CONN52	B - 5I - 8325	
7 Contacts	3 A	E – 7Y – 3898			ØE	Implement Swing Press Switch	B-10
	CONN10	A - 5I - 8326			CONN53	B - 5I - 8325	
	6	B – 5I – 8325	D-10		ØF	Level Solenoid	A-9
	CONN11	B – 5I – 8325	E-8 E-2	2 Contacts	CONN38	B – 5I – 8325	
6 Contacts	(DD	Safety Relay			Ø	N – 7Y – 3943	B-2
	CONN28	D – 5I – 8217			CONN56	B – 5I – 8325	A-9
	3	F – 5I – 8216			ØF	Proportional Reducing Valve	
	CONN15	A – 5I – 8326			CONN39	B - 5I - 8325	F-12
	10C	Air Conditioner Unit	E-6		15	Refrigerant Low Press Switch	
	CONN19	A – 5I – 8326	D-5 C-8 C-2 D-6		CONN41	B - 5I - 8325	A-3
	2 B	J – 7Y – 3921			Ø	Refueling Pump	
	CONN44	G – 5I – 8236			CONN48	B – 5I – 8325	
5 Contacts	9D	Governor Actuator			•	ZZ – 5I – 8258	A-5
	CONN27	H – 5I – 8235			CONN47	B – 5I – 8325	
	3 B	Engine Speed Dial			®	S - 5I - 8255	B-3
	CONN15	A – 5I – 8326			CONN42	B - 5I - 8325	
	-	Linear Linea				Speed Sensor	B-11
	7 C	Heater Unit					
	CONN58	A – 5I – 8326			CONN7	B - 5I - 8325	
	CONN58	Heater Unit A $- 51 - 8326$ A $- 51 - 8326$	C-8		CONN7	B - 5I - 8325 T - 5I - 8234	B-3

F-2

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CATERPILLAR®

B-9

B-9

E-4

F-3







6 Lower Wiper Motor

B-12

B-11

B-9

B-9

B-11

B-4

B-4

A-9

B-9

B-6

E-2

B-12

C-3

B-5

C-3 F-3 F-3

B-10

D-3

F-12 A-5 A-3

B-4 C-2 B-10

E-6

A-9

B-3 C-3 F-2 F-4

F	= Connector near pilot oil manifold.
*	= Connector is located at the compone



AREA E



SENR6015-02

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320 and 320L Excavator

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SENR6015-02 Page, (Dimensions: 39 inches x 24 inch

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THIS SCHEMATIC IS FOR THE 320 EXCAVATOR ELECTRICAL SYSTEM MEDIA NUMBER: SENR6015-02

SCHEMATIC PART NUMBER: 7Y-3905, CHANGE: 02, VERSION: HE Components are shown installed on a fully operable machine with the key and engine off, transmission shifter

in neutral and with parking brake set. Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.

