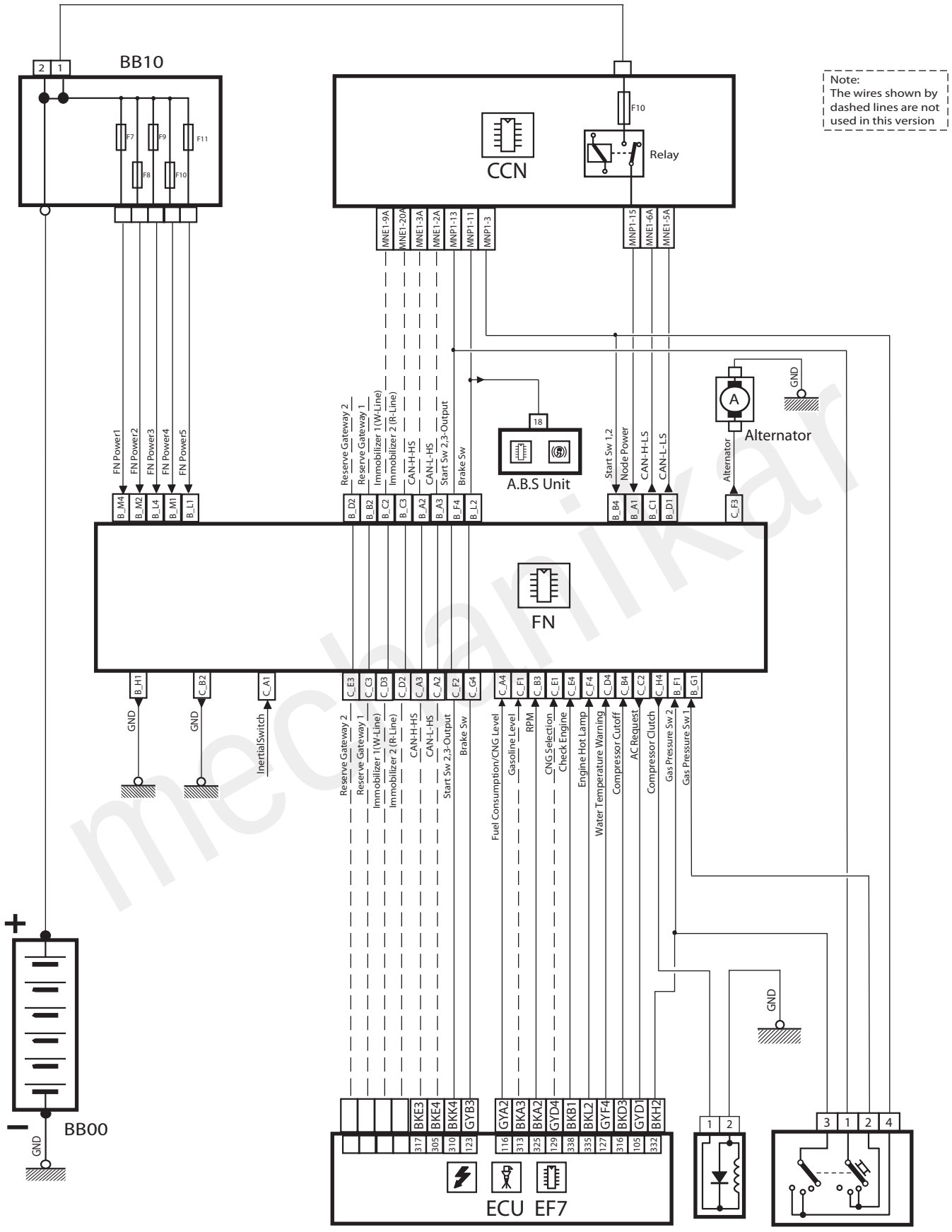
BB10
2
1
F7
F8
F9
F10
F11
CCN
F10
Relay
Note:
The wires shown by dashed lines are not used in this version
MNE1-9A
MNE1-20A
MNE1-3A
MNE1-2A
MNP1-13
MNP1-11
MNP1-3
MNP1-15
MNE1-6A
MNE1-5A
FN Power1
FN Power2
FN Power3
FN Power4
FN Power5
Reserve Gateway 2
Reserve Gateway 1
Immobilizer 1 (W-Line)
Immobilizer 2 (R-Line)
CAN-H-HS
CAN-L-HS
Start Sw 2,3-Output
Brake Sw
18
A.B.S Unit
Start Sw 1,2
Node Power
CAN-H-LS
CAN-L-LS
A
GND
Alternator
Alternator
B_M4
B_M2
B_L4
B_M1
B_L1
B_D2
B_B2
B_C2
B_C3
B_A2
B_A3
B_F4
B_L2
B_B4
B_A1
B_C1
B_D1
C_F3
FN
B_H1
C_B2
C_A1
C_E3
C_C3
C_D3
C_D2
C_A3
C_A2
C_F2
C_G4
C_A4
C_F1
C_B3
C_E1
C_E4
C_F4
C_D4
C_B4
C_C2
C_H4
B_F1
B_G1
GND
GND
InertialSwitch
Reserve Gateway 2
Reserve Gateway 1
Immobilizer 1 (W-Line)
Immobilizer 2 (R-Line)
CAN-H-HS
CAN-L-HS
Start Sw 2,3-Output
Brake Sw
Fuel Consumption/CNG Level
Gasoline Level
RPM
CNG Selection
Check Engine
Engine Hot Lamp
Water Temperature Warning
Compressor Cutoff
AC Request
Compressor Clutch
Gas Pressure Sw 2
Gas Pressure Sw 1
+
−
BB00
GND
GND
BKE3
BKE4
BKK4
GYB3
GYA2
BKA3
BKA2
GYD4
BKB1
BKL2
GYF4
BKD3
GYD1
BKH2
317
305
310
123
116
313
325
129
338
335
127
316
105
332
ECU EF7
Engine Control Unit
1
2
Air Conditioning Compressor
3
1
2
4
Pressostat Switch

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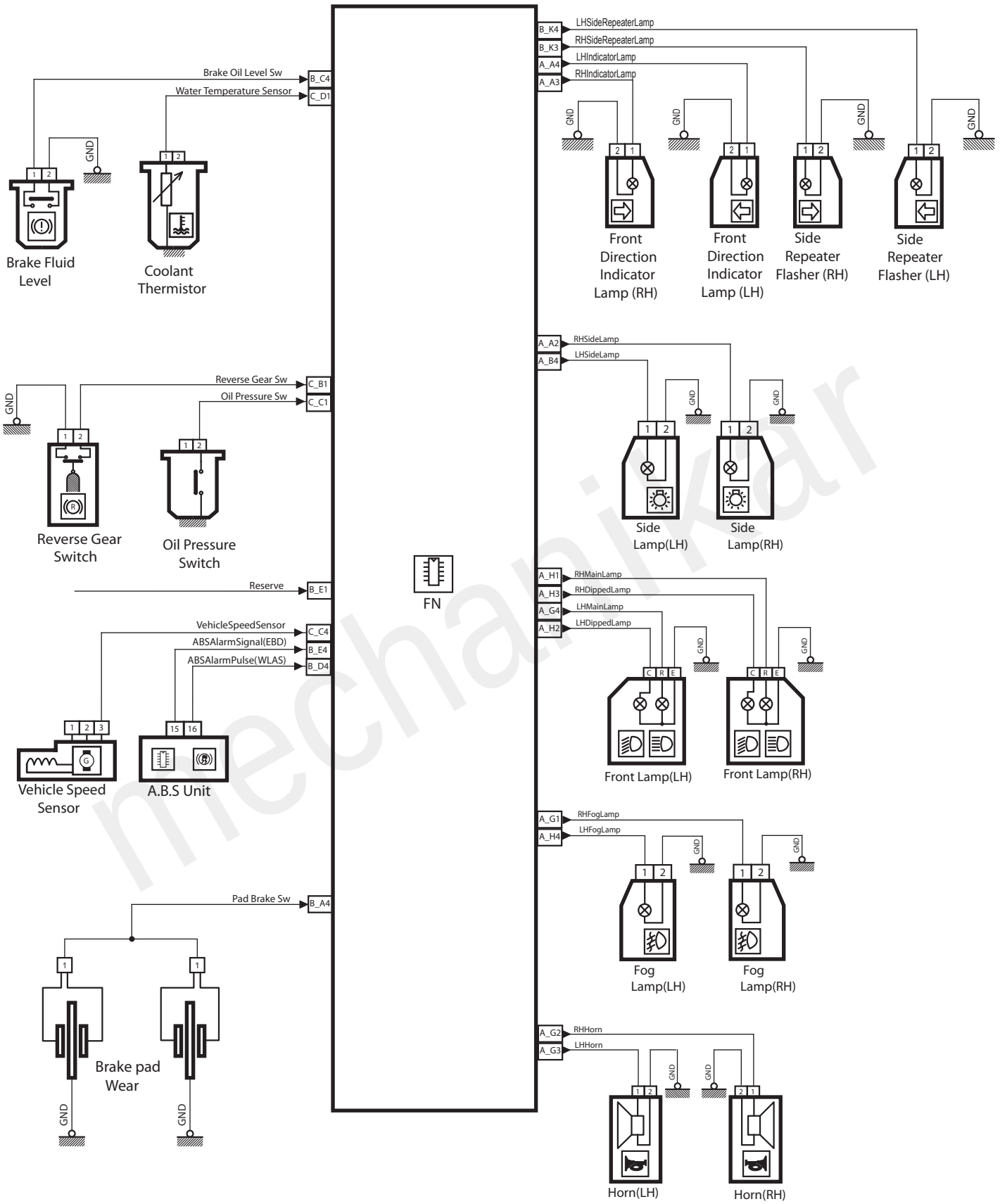
FN
B_K4
LHSideRepeaterLamp
B_K3
RHSideRepeaterLamp
A_A4
LHIndicatorLamp
A_A3
RHIndicatorLamp
Front Direction Indicator Lamp (RH)
Front Direction Indicator Lamp (LH)
Side Repeater Flasher (RH)
Side Repeater Flasher (LH)
A_A2
RHSideLamp
A_B4
LHSideLamp
Side Lamp(LH)
Side Lamp(RH)
A_H1
RHMainLamp
A_H3
RHDippedLamp
A_G4
LHMainLamp
A_H2
LHDippedLamp
Front Lamp(LH)
Front Lamp(RH)
A_G1
RHFogLamp
A_H4
LHFogLamp
Fog Lamp(LH)
Fog Lamp(RH)
A_G2
RHHorn
A_G3
LHHorn
Horn(LH)
Horn(RH)
Brake Oil Level Sw
B_C4
Water Temperature Sensor
C_D1
Brake Fluid Level
Coolant Thermistor
Reverse Gear Sw
C_B1
Oil Pressure Sw
C_C1
Reverse Gear Switch
Oil Pressure Switch
Reserve
B_E1
VehicleSpeedSensor
C_C4
ABSAlarmSignal(EBD)
B_E4
ABSAlarmPulse(WLAS)
B_D4
Vehicle Speed Sensor
A.B.S Unit
Pad Brake Sw
B_A4
Brake pad Wear
GND

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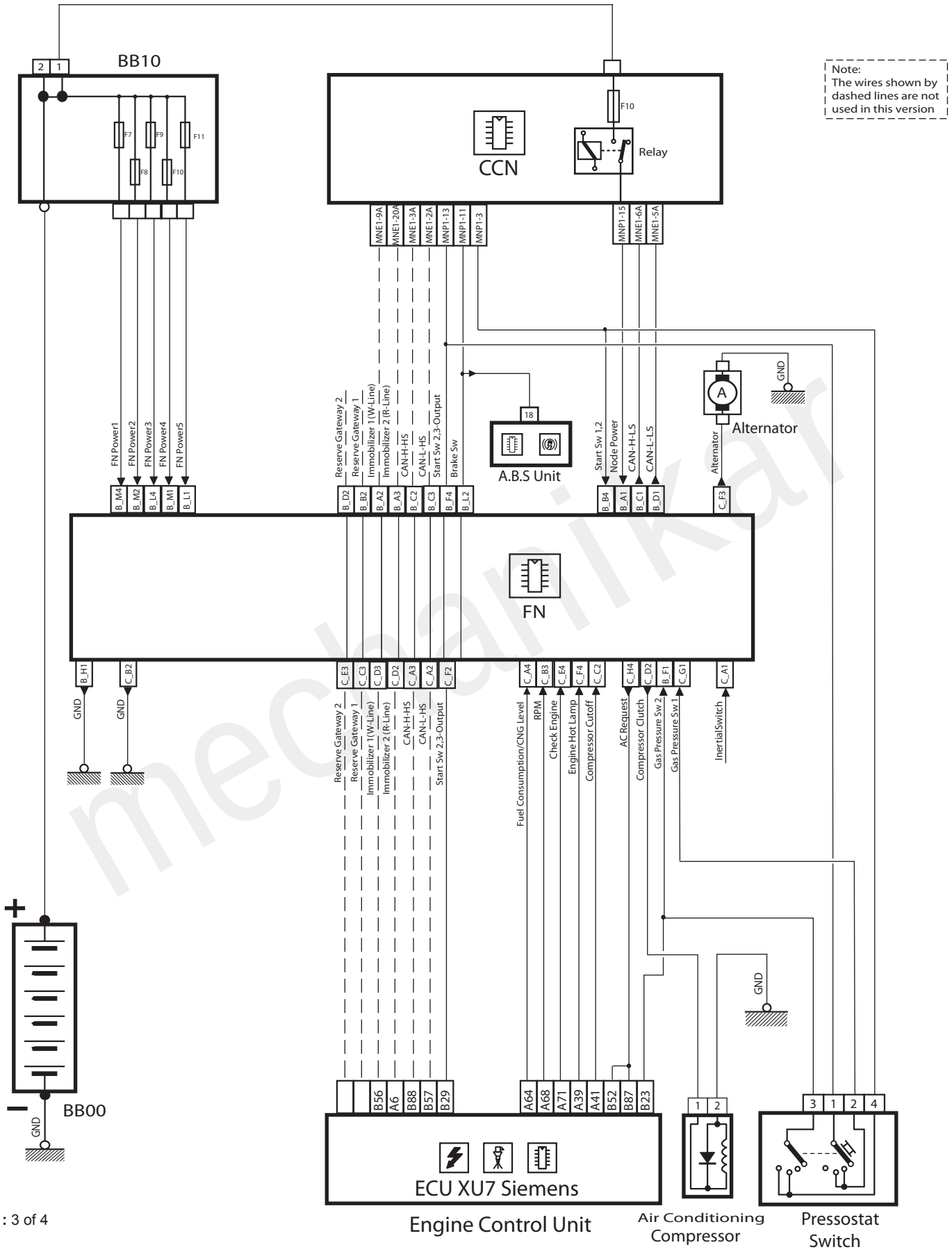
Node FN-Samand & Soren XU7 Siemens MUX	ISACO	1101013



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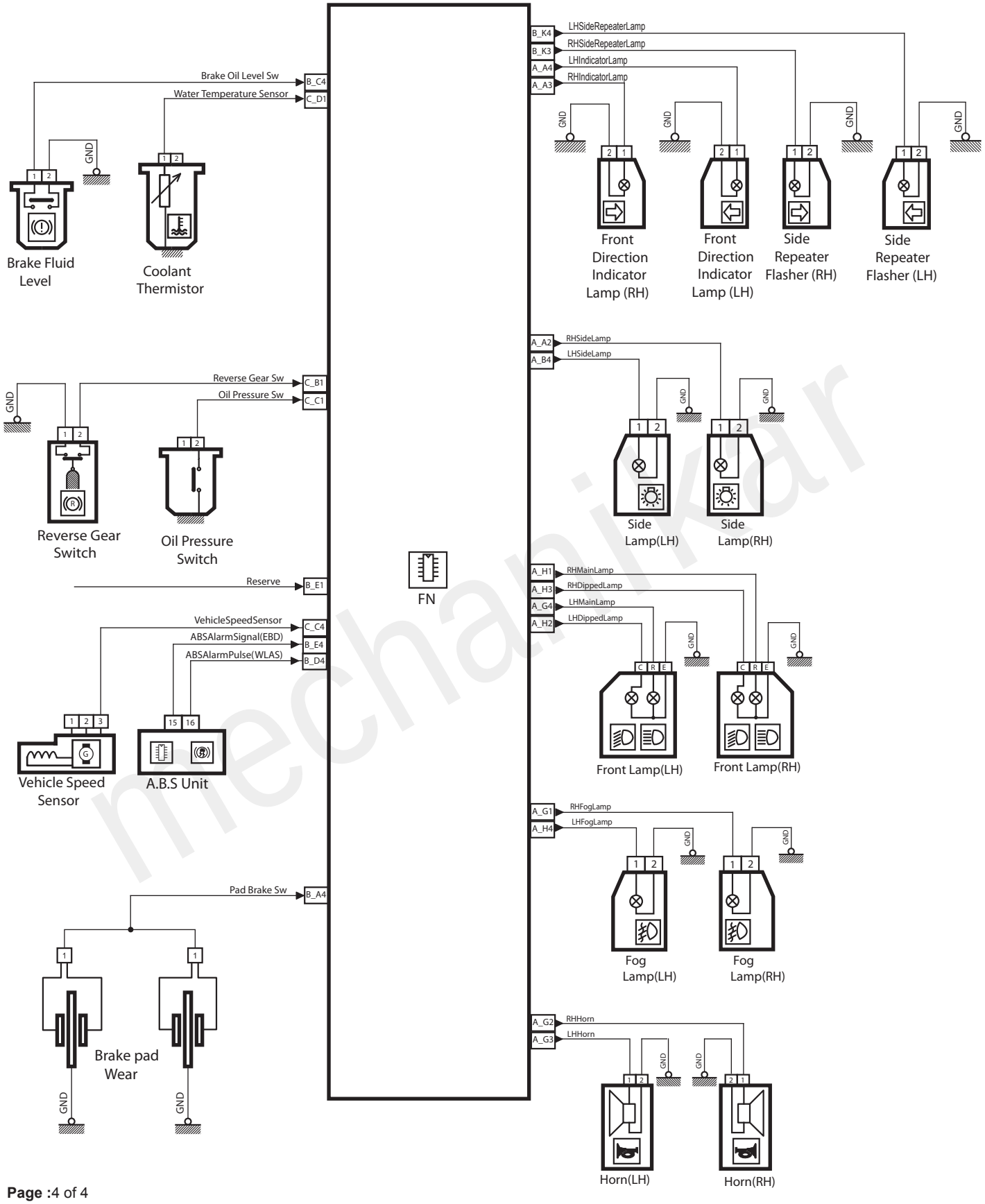
Drawn by: Engineering Dep. of ISACO	2013.12.21



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Front Node Connector - Cavity A - 32 Pin					
No.	**Name of signal**	**S/mm2**	**Input/Output**	**Average Current**	**I max/ Theorical**
A-H2	DIPPED_LAMP_LH	1.5	Output	5.5A	8A
A-H3	DIPPED_LAMP_RH	1.5	Output	5.5A	8A
A-G4	MAIN_LAMP_LH	1.5	Output	5.5A	8A
A-H1	MAIN_LAMP_RH	1.5	Output	5.5A	8A
A-B4	SIDE_LAMP_LH	0.35	Output	0.5A	3.2A
A-A2	SIDE_LAMP_RH	0.35	Output	0.5A	3.2A
A-H4	FOG_LAMP_LH	1.5	Output	5.5A	8A
A-G1	FOG_LAMP_RH	1.5	Output	5.5A	8A
A-A4	INDICATOR_LAMP_LH	0.5	Output	2A	4A
A-A3	INDICATOR_LAMP_RH	0.5	Output	2A	4A
A-G3	HORN_LH	1	Output	4A	6.4A
A-G2	HORN_RH	1	Output	4A	6.4A

Front Node Connector - Cavity B - 48 Pin					
No.	**Name of signal**	**S/mm2**	**Input/Output**	**Average Current**	**I max/ Theorical**
B-D4	ABS Alarm Pulse(WLAS)	0.35	Input	25mA	3.2A
B-E4	ABS Alarm Signal(EBD)	0.35	Input	10mA	3.2A
B-B4	Start_SW 1,2	0.75	Power Supply	0.5A	5.6A
B-K4	Side Repeater Lamp (LH)	0.5	Output	0.5A	4A
B-K3	Side Repeater Lamp (RH)	0.5	Output	0.5A	4A
B-A4	Pad Brake Switch	0.5	Input	15mA	4A
B-C4	Brake Oil level Switch	0.5	Input	15mA	4A
B-G1	Gas Pressure Switch I	0.35	Input	15mA	3.2A
B-F1	Gas Pressure Switch II	0.35	Input	15mA	3.2A
B-E1	Reserve1	0.35	Input	10mA	3.2A
B-M4	FN-POWER1	2	Power Supply	11A	10.4A
B-M2	FN-POWER2	2	Power Supply	11.75A	10.4A
B-L4	FN-POWER3	2	Power Supply	11A	10.4A
B-M1	FN-POWER4	2	Power Supply	11.75A	10.4A
B-L1	FN-POWER5	2	Power Supply	4A	10.4A
B-A1	Node Power	0.75	Power Supply	0.5A	5.6A
B-H1	GND1	0.75	GND	0.5A	5.6A
B-C1	CAN H-Low Speed	0.35	Input/Output	0.5A	3.2A
B-D1	CAN L-Low Speed	0.35	Input/Output	0.5A	3.2A
B-A2	CAN H-High Speed_B	0.35	Gateway	0.5A	3.2A
B-A3	CAN L-High Speed_B	0.35	Gateway	0.5A	3.2A
B-F4	Start_SW_2,3_B	0.75	Gateway	_	5.6A
B-L2	Brake_SW_B	0.75	Gateway	_	5.6A
B-C3	R_Line_B	0.35	Gateway	0.25A	3.2A
B-C2	W_Line_B	0.35	Gateway	0.25A	3.2A
B-B2	Reserve_Gateway_1B	0.35	Gateway	0.25A	3.2A
B-D2	Reserve_Gateway_2B	0.35	Gateway	0.25A	3.2A

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Front Node Connector - Cavity C - 32 Pin					
No.	**Name of signal**	**S/mm2**	**Input/Output**	**Average Current**	**I max/ Theorical**
C-F1	Gasoline_Level	0.35	Input	10mA	3.2A
C-E1	CNG_Selection	0.35	Input	10mA	3.2A
C-F4	Engin_Hot_Lamp	0.35	Input	10mA	3.2A
C-B3	RPM	0.35	Input	10mA	3.2A
C-C4	Vehicle Speed Sensor	0.5	Input	10mA	4A
C-A4	Fuel Consumption/CNG_Tank_Level	0.35	Input	25mA	3.2A
C-D1	Water Temprature Sensor	0.5	Input	10mA	4A
C-D4	Water Temprature Warning	0.35	Input	10mA	3.2A
C-F3	Alternator	0.35	Output	0.2A	3.2A
C-C1	Oil Pressure Switch	0.5	Input	15mA	4A
C-B1	Reverse Gear Switch	0.5	Input	15mA	4A
C-C2	AC Request	0.35	Output	10mA	3.2A
C-B4	Compressor Cut Off	0.35	Input	10mA	3.2A
C-H4	Compressor Clutch	1	Output	4A	6.4A
C-A1	Inertial Switch	0.35	Input	15mA	3.2A
C-E4	Check Engine	0.35	Input	10mA	3.2A
C-A3	CAN H-High Speed	0.35	Input/Output	0.5A	3.2A
C-A2	CAN L-High Speed	0.35	Input/Output	0.5A	3.2A
C-F2	Start_SW_2,3_B	0.75	Gateway	_	5.6A
C-G4	Brake_SW_B	0.75	Gateway	_	5.6A
C-D2	R_Line_B	0.35	Gateway	0.25A	3.2A
C-D3	W_Line_B	0.35	Gateway	0.25A	3.2A
C-C3	Reserve_Gateway_1B	0.35	Gateway	0.25A	3.2A
C-E3	Reserve_Gateway_2B	0.35	Gateway	0.25A	3.2A
C-B2	GND2	0.75	GND	0.5A	5.6A

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