

23	22	21	20	19	18
46	45	44	43	42	41

17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47

86	85	84	83	82	81
109	108	107	106	105	104

80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64
103	102	101	100	99	98	97	96	95	94	93	92	91	90	89	88	87
126	125	124	123	122	121	120	119	118	117	116	115	114	113	112	111	110

11	10	9	8	7	6	5	4
19	18	17	16	15	14	13	12
30	29	28	27	26	25	24	23

3	2	1
22	21	20

41	40	39	38	37	36	35	34
49	48	47	46	45	44	43	42
60	59	58	57	56	55	54	53

33	32	31
52	51	50

Pin	Wire Color	Function	Connection/Notes
A55-2	R – W-B	+B – Ignition	Ignition Relay fuse box
A55-1	R – W-B	+B2 – Ignition	Ignition Relay fuse box
A55-28	Y – W-B	IGSW	Ignition Relay fuse box
A55-20	Y – W-B	BATT +12V Constant	thick R-B body harness 12+ constant
A55-3	LG – W-B	BM +12V Constant	thick R-B body harness 12+ constant
A55-44	O – W – B	MREL – EFI relay	provides +12V for EFI-COR relay R wire
C55-21	B – W – -	E02 - Ground	
C55-22	B – W-R	E01 - Ground	
C55-104	B-W-B	E03 - Ground	
C55-23	W – W-B	E04 - Ground	
C55-46	W – W-B	E05 – Ground	
C55-81	W – B – -	E1 - Ground	
C55-20	W – B – -	ME01 – Ground	Make sure these are grounded well
A55-24	BR – W-B	Engine Light (MIL)	to fuse panel green/white to dash
A55-15	B – W-B	TACH	to black wire fuse box and E13/E10 DLC3 p9
C55-79	B – P	THW – Water Temp	Y-G on long white plug on fuse box
A24-17	B – W-B	ACC relay control	cranking
A55-48	W – W-B	STA Starter Relay	Connects to Red/silver COR in fuse box.
A55-14	R – BR	STSW Starter Relay	Not used
C55-62	R – W-B	NSW	+12V ignition
C55-26	G	DL NSW	NSW C1-7 G +12V S Pg477-482
A55-41	B	CANH	DLC3 E13-6
A55-49	W	CANL	DLC3 E13-14
E13-16		BAT	Ignition +12V
E13-4	W-B	CG – carrier ground	Any GND
E13-5		SG – signal ground	Any GND

Function	Connection/Notes
Reverse Light +12V	connect B-Y from reverse switch to EFI B-Y
Reverse Light Switch	connect R-B from reverse switch to fuse box (check by continuity to light)
Charging +12V BATT	Alternator to white battery + fuse box
+12V Constant	W-R from fuse box to alternator plug W
Alternator	Y wire in fuse box to alternator plug Y
Alternator	B-Y in fuse box to alternator plug R-B
Ignition coils	C11,12,13,14,38,39-1 IG +12V pg403-406
Ignition coils GND	C11,12,13,14,38,39-4 GND
Fuel Injectors	BA3,7 B and BA3,2 B-W to IG B-R +12V
Mass Air Flow	B1/C2-3 IG +12V Pg275-299 rav4 pg239
O2 Sensor	C51-2, C51-2 IG +12V Pg283, Pg279-288
Starter Relay 30	Connect to thick +12V
Starter Relay 87	Connect to starter solenoid B-R
Starter Relay 85	Connect to A55-48 STA COR & R from mr2 STA
Starter Relay 86	Connect to ground
Gas Pedal pin 1	VCP2 (A17-1) - VCP2 (A55-58)
Gas Pedal pin2	EPA2 (A17-2) - EPA2 (A55-60)
Gas Pedal pin3	VPA2 (A17-3) - VPA2 (A55-56)
Gas Pedal pin4	VCPA (A17-4) - VCPA (A55-57)
Gas Pedal pin5	EPA (A17-5) - EPA (A55-59)
Gas Pedal pin6	VPA (A17-6) - VPA (A55-55)

**Engineer: Nick Koch**  
**Client: Tim Walker**

**Engine: 2GR-FE**  
**Car: MR-2**