

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0								
Function	POWERCELL™ Address	POWERCELL™ Output	POWERCELL™ Connector	Personality	POWERCELL™ Wire Color	Switch Input	MASTERCELL™ Connector	MASTERCELL™ Wire Color
Left-Turn Signal (Front) **	1	1	B	Turn Signal	Brown	3	A	White-Blue
Right-Turn Signal (Front) **	1	2	B	Turn Signal	Violet	4	A	White-Yellow
4-Ways	1 & 2	1 & 2	B	4-Ways	Brown & Violet	8	A	Blue-Grey
OPEN	1	3	B	Track	Light-Green	18	A	Tan-Blue
Interior Lights	1	4	B	Track	Light-Blue	17	A	Tan-Red
Headlights	1	5	B	Track: Soft Start	White	5	A	White-Green
Parking Lights (Front)	1	6	A	Track	Yellow	6	A	Blue-Black
High Beams	1	7	A	Track: Soft Start	Blue	7	A	Blue-Red
Open	1	8	A	Track	Green	19	A	Tan-Yellow
Horn	1	9	A	Track	Orange	9	A	Blue-Yellow
Cooling Fan-Ground Input	1	10	A	Track: Soft Start	Tan	10	A	Blue-Green
Cooling Fan- 12-Volt Input	1	10	A	Track: Soft Start	Tan	HSIN01	A	Blue-White

* Blocked when security is ON

** Requires Ignition to be ON

Rear POWERCELL

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0								
Function	POWERCELL™ Address	POWERCELL™ Output	POWERCELL™ Connector	Personality	POWERCELL™ Wire Color	Switch Input	MASTERCELL™ Connector	MASTERCELL™ Wire Color
Left-Turn Signal (Rear) **	2	1	B	Track	Brown	3	A	White-Blue
Right-Turn Signal (Rear) **	2	2	B	Track	Violet	4	A	White-Yellow
Brake Light (Multi-Filament)	2	3	B	Track	Light-Green	12	A	Yellow-Red
Brake Light (Single Filament)	2	1 & 2	B	Track	Brown & Violet	11	A	Yellow-Black
Ignition*	2	4	B	Track	Light-Blue	1	A	White-Black
Starter*	2	5	B	Track (Requires Neutral Safety)	White	2	A	White-Red
One-Button Start	2	4 & 5	B	One-Button Start (Requires Neutral Safety)	Light-Blue & White	15	A	Yellow-Green
Neutral Safety Input						16	A	Tan-Black
Parking Lights (Rear)	2	6	A	Track	Yellow	6	A	Blue-Black
OPEN	2	7	A	Track	Blue	20	A	Tan-Green
OPEN	2	8	A	Track	Green	21	A	Green-Black
OPEN or Optional inRESERVE	2	9	A	Track	Orange	22	A	Green-Red
Fuel Pump-Ground Input *	2	10	A	Track	Tan	13	A	Yellow-Blue
Fuel Pump- 12-Volt Input *	2	10	A	Track	Tan	HSIN02	A	Yellow-White

* Blocked when security is ON

** Requires Ignition to be ON

MASTERCELL Outputs

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0			
Function	Output Number	MASTERCELL™ Connector	MASTERCELL™ Wire Color
Left-Turn Signal Indicator	OUT01	A	Brown
Right-Turn Signal Indicator	OUT02	A	Violet
High-Beam Indicator	OUT03	A	Blue
Gauge Illumination	OUT04	A	Yellow
OPEN OUTPUT 05	OUT05	B	Pink
OPEN OUTPUT 06	OUT06	B	Grey
OPEN OUTPUT 07	OUT07	B	Tan
OPEN OUTPUT 08	OUT08	B	Light-Blue

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0									
Function	inMOTION Address	inMOTION Output	Personality	inMOTION Output Wire Color	inMOTION Switch Input	inMOTION Input Wire Color	MASTERCELL Switch Input	MASTERCEL Connector	MASTERCEL Wire Color
Window Up	3	Relay 1A	Track	Orange	1	White-Black	25	B	Pink-Black
Window Down	3	Relay 1B	Track	Yellow	2	White-Red	26	B	Pink-Red
Door Lock	3	Relay 2A	Timed 1-Second	White	3	White-Blue	23	B	Green-Blue
Door Unlock	3	Relay 2B	Timed 1-Second	Grey	4	White-Yellow	24	B	Green-Orange
Switch Illumination	3	Output 1	Track	Yellow	5	White-Green	6	A	Blue-Black
Interior Lights	3	Output 2	Track	Light Blue	6	Blue-Black	18	A	Tan-Blue
AUX 03	3	Output 3	Track	Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	3	Output 4	Track	Blue	8	Blue-Grey	N/A	N/A	N/A

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0									
Function	inMOTION Address	inMOTION Output	Personality	inMOTION Output Wire Color	inMOTION Switch Input	inMOTION Input Wire Color	MASTERCELL Switch Input	MASTERCEL Connector	MASTERCEL Wire Color
Window Up	4	Relay 1A	Track	Orange	1	White-Black	27	B	Pink-Blue
Window Down	4	Relay 1B	Track	Yellow	2	White-Red	28	B	Pink-Yellow
Door Lock	4	Relay 2A	Timed 1-Second	White	3	White-Blue	23	B	Green-Blue
Door Unlock	4	Relay 2B	Timed 1-Second	Grey	4	White-Yellow	24	B	Green-Orange
Switch Illumination	4	Output 1	Track	Yellow	5	White-Green	6	A	Blue-Black
Interior Lights	4	Output 2	Track	Light Blue	6	Blue-Black	18	A	Tan-Blue
AUX 03	4	Output 3	Track	Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	4	Output 4	Track	Blue	8	Blue-Grey	N/A	N/A	N/A

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0									
Function	inMOTION Address	inMOTION Output	Personality	inMOTION Output Wire Color	inMOTION Switch Input	inMOTION Input Wire Color	MASTERCELL Switch Input	MASTERCEL Connector	MASTERCEL Wire Color
Window Up	5	Relay 1A	Track	Orange	1	White-Black	29	B	Pink-Green
Window Down	5	Relay 1B	Track	Yellow	2	White-Red	30	B	Lt Blue-Black
Door Lock	5	Relay 2A	Timed 1-Second	White	3	White-Blue	23	B	Green-Blue
Door Unlock	5	Relay 2B	Timed 1-Second	Grey	4	White-Yellow	24	B	Green-Orange
Switch Illumination	5	Output 1	Track	Yellow	5	White-Green	6	A	Blue-Black
Interior Lights	5	Output 2	Track	Light Blue	6	Blue-Black	18	A	Tan-Blue
AUX 03	5	Output 3	Track	Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	5	Output 4	Track	Blue	8	Blue-Grey	N/A	N/A	N/A

REAR ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV0									
Function	inMOTION Address	inMOTION Output	Personality	inMOTION Output Wire Color	inMOTION Switch Input	inMOTION Input Wire Color	MASTERCELL Switch Input	MASTERCEL Connector	MASTERCEL Wire Color
Window Up	6	Relay 1A	Track	Orange	1	White-Black	31	B	Lt Blue-Red
Window Down	6	Relay 1B	Track	Yellow	2	White-Red	32	B	Lt Blue-Blue
Door Lock	6	Relay 2A	Timed 1-Second	White	3	White-Blue	23	B	Green-Blue
Door Unlock	6	Relay 2B	Timed 1-Second	Grey	4	White-Yellow	24	B	Green-Orange
Switch Illumination	6	Output 1	Track	Yellow	5	White-Green	6	A	Blue-Black
Interior Lights	6	Output 2	Track	Light Blue	6	Blue-Black	18	A	Tan-Blue
AUX 03	6	Output 3	Track	Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	6	Output 4	Track	Blue	8	Blue-Grey	N/A	N/A	N/A

MASTERCELL Connector A Details

Pin ID	Wire Color	NAME	Pin ID	Wire Color	NAME
1	White-Black	Ignition	17	Tan-Red	Backup Lights
2	White-Red	Starter	18	Tan-Blue	Interior Lights
3	White-Blue	Left Turn	19	Tan-Yellow	AUX Input 19
4	White-Yellow	Right Turn	20	Tan-Green	AUX Input 20
5	White-Green	Head Lights	21	Green-Black	AUX Input 21
6	Blue-Black	Parking Lights	22	Green-Red	AUX Input 22
7	Blue-Red	High Beams	23	Blue-White	Cooling Fan (12-Volt 1)
8	Blue-Grey	4-Ways	24	Yellow-White	Fuel Pump (12-Volt 2)
9	Blue-Yellow	Horn	25	Brown	Left-Turn Indicator
10	Blue-Green	Cooling Fan (GND)	26	Violet	Right-Turn Indicator
11	Yellow-Black	1-Filament Brake	27	Blue	High-Beam Indicator
12	Yellow-Red	Multi-Filament Brake	28	Yellow	Gauge Illumination
13	Yellow-Blue	Fuel Pump (GND)	29	Black	Ground
14	Yellow-Orange	Alternating Headlight	30	Black	Ground
15	Yellow-Green	One-Button Start	31	Black	Ground
16	Tan-Black	Neutral Safety Input	32	Black	Ground

MASTERCELL Connector B Details

Pin ID	Wire Color	NAME	Pin ID	Wire Color	NAME
1	Green-Blue	Central Door Lock	IN23	Brown-White	AUX Input (12-Volt 3)
2	Green-Orange	Central Door Unlock	IN24	Orange-White	AUX Input (12-Volt 4)
3	Pink-Black	Driver Window Up	IN25	Grey-White	AUX Input (12-Volt 5)
4	Pink-Red	Driver Window Down	IN26	Green-White	AUX Input (12-Volt 6)
5	Pink-Blue	Pass Window Up	IN27	Pink	Output 01
6	Pink-Yellow	Pass Window Down	IN28	Grey	Output 02
7	Pink-Green	Dr Rear Window Up	IN29	Tan	Output 03
8	Lt Blue-Black	Dr Rear Window Down	IN30	Lt Blue	Output 04
9	Lt Blue-Red	Pass Rear Window Up	IN31	Brown-Black	Analogue IN (0 - 5)
10	Lt Blue-Blue	Pass Rear Window Down	IN32	Brown-Red	Tach IN
11	Lt Blue-Yellow	AUX Input 33	IN33	Brown-Blue	VSS IN
12	Lt Blue-Green	AUX Input 34	IN34	Orange	inV Fan Speed
13	Violet-Black	AUX Input 35	IN35	Lt Green	inV Temp
14	Violet-Red	AUX Input 36	IN36	Yellow	inV Blend
15	Violet-Blue	AUX Input 37	IN37	Red-White	+5 Volt Reference
16	Violet-Orange	AUX Input 38	IN38	Black	Ground