

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1								
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
Ignition*	1	3	B	Track	Light-Green	1	A	White-Black
Starter*	1	4	B	Track (Requires Neutral Safety)	Light-Blue	2	A	White-Red
One-Button Start	1	3 & 4	B	One-Button Start (Requires Neutral Safety)	Light-Green & Light Blue	15	A	Yellow-Green
Neutral Safety Input						16	A	Tan-Black
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

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1								
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
Interior Lights	2	4	B	Track	Light-Blue	18	A	Tan-Blue
Backup Lights **	2	5	B	Track	White	17	A	Tan-Red
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

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1			
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

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1

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	White	1	White-Black	25	B	Pink-Black
Window Down	3	Relay 1B	Track	Grey	2	White-Red	26	B	Pink-Red
Door Lock	3	Relay 2A	Timed 1-Second	Yellow	3	White-Blue	23	B	Green-Blue
Door Unlock	3	Relay 2B	Timed 1-Second	Orange	4	White-Yellow	24	B	Green-Orange
Switch Illumination	3	Output 1	Track	Brown	5	White-Green	6	A	Blue-Black
Interior Lights	3	Output 2	Track	Violet	6	Blue-Black	18	A	Tan-Blue
AUX 03	3	Output 3	Track	Light-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

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1

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	White	1	White-Black	27	B	Pink-Blue
Window Down	4	Relay 1B	Track	Grey	2	White-Red	28	B	Pink-Yellow
Door Lock	4	Relay 2A	Timed 1-Second	Yellow	3	White-Blue	23	B	Green-Blue
Door Unlock	4	Relay 2B	Timed 1-Second	Orange	4	White-Yellow	24	B	Green-Orange
Switch Illumination	4	Output 1	Track	Brown	5	White-Green	6	A	Blue-Black
Interior Lights	4	Output 2	Track	Violet	6	Blue-Black	18	A	Tan-Blue
AUX 03	4	Output 3	Track	Light-Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	4	Output 4	Track	Light-Blue	8	Blue-Grey	N/A	N/A	N/A

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1

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	White	1	White-Black	29	B	Pink-Green
Window Down	5	Relay 1B	Track	Grey	2	White-Red	30	B	Lt Blue-Black
Door Lock	5	Relay 2A	Timed 1-Second	Yellow	3	White-Blue	23	B	Green-Blue
Door Unlock	5	Relay 2B	Timed 1-Second	Orange	4	White-Yellow	24	B	Green-Orange
Switch Illumination	5	Output 1	Track	Brown	5	White-Green	6	A	Blue-Black
Interior Lights	5	Output 2	Track	Violet	6	Blue-Black	18	A	Tan-Blue
AUX 03	5	Output 3	Track	Light-Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	5	Output 4	Track	Light-Blue	8	Blue-Grey	N/A	N/A	N/A

FRONT ENGINE STANDARD SYSTEM ASSIGNMENTS IPM1 Kit REV1

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	White	1	White-Black	31	B	Lt Blue-Red
Window Down	6	Relay 1B	Track	Grey	2	White-Red	32	B	Lt Blue-Blue
Door Lock	6	Relay 2A	Timed 1-Second	Yellow	3	White-Blue	23	B	Green-Blue
Door Unlock	6	Relay 2B	Timed 1-Second	Orange	4	White-Yellow	24	B	Green-Orange
Switch Illumination	6	Output 1	Track	Brown	5	White-Green	6	A	Blue-Black
Interior Lights	6	Output 2	Track	Violet	6	Blue-Black	18	A	Tan-Blue
AUX 03	6	Output 3	Track	Light-Green	7	Blue-Red	N/A	N/A	N/A
AUX 04	6	Output 4	Track	Light-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	Ignition	White-Black	IN01	17	Backup Lights	Tan-Red	IN17
2	Starter	White-Red	IN02	18	Interior Lights	Tan-Blue	IN18
3	Left Turn	White-Blue	IN03	19	AUX Input 19	Tan-Yellow	IN19
4	Right Turn	White-Yellow	IN04	20	AUX Input 20	Tan-Green	IN20
5	Head Lights	White-Green	IN05	21	AUX Input 21	Green-Black	IN21
6	Parking Lights	Blue-Black	IN06	22	AUX Input 22	Green-Red	IN22
7	High Beams	Blue-Red	IN07	23	Cooling Fan (12-Volt 1)	Blue-White	HSIN01
8	4-Ways	Blue-Grey	IN08	24	Fuel Pump (12-Volt 2)	Yellow-White	HSIN02
9	Horn	Blue-Yellow	IN09	25	Left-Turn Indicator	Brown	OUT01
10	Cooling Fan (GND)	Blue-Green	IN10	26	Right-Turn Indicator	Violet	OUT02
11	1-Filament Brake	Yellow-Black	IN11	27	High-Beam Indicator	Blue	OUT03
12	Multi-Filament Brake	Yellow-Red	IN12	28	Gauge Illumination	Yellow	OUT04
13	Fuel Pump (GND)	Yellow-Blue	IN13	29	Ground	Black	GND
14	Alternating Headlight	Yellow-Orange	IN14	30	Ground	Black	GND
15	One-Button Start	Yellow-Green	IN15	31	Ground	Black	GND
16	Neutral Safety Input	Tan-Black	IN16	32	Ground	Black	GND

MASTERCELL Connector B Details

Pin ID		Wire Color	NAME	Pin ID		Wire Color	NAME
1	Central Door Lock	Green-Blue	IN23	17	AUX Input (12-Volt 3)	Brown-White	HSIN03
2	Central Door Unlock	Green-Orange	IN24	18	AUX Input (12-Volt 4)	Orange-White	HSIN04
3	Driver Window Up	Pink-Black	IN25	19	AUX Input (12-Volt 5)	Grey-White	HSIN05
4	Driver Window Down	Pink-Red	IN26	20	AUX Input (12-Volt 6)	Green-White	HSIN06
5	Pass Window Up	Pink-Blue	IN27	21	Output 01	Pink	OUT05
6	Pass Window Down	Pink-Yellow	IN28	22	Output 02	Grey	OUT06
7	Dr Rear Window Up	Pink-Green	IN29	23	Output 03	Tan	OUT07
8	Dr Rear Window Down	Lt Blue-Black	IN30	24	Output 04	Lt Blue	OUT08
9	Pass Rear Window Up	Lt Blue-Red	IN31	25	Analogue IN (0 - 5)	Brown-Black	AN01
10	Pass Rear Window Down	Lt Blue-Blue	IN32	26	Tach IN	Brown-Red	PULSE01
11	AUX Input 33	Lt Blue-Yellow	IN33	27	VSS IN	Brown-Blue	PULSE02
12	AUX Input 34	Lt Blue-Green	IN34	28	inV Fan Speed	Orange	INV01
13	AUX Input 35	Violet-Black	IN35	29	inV Temp	Lt Green	INV02
14	AUX Input 36	Violet-Red	IN36	30	inV Blend	Yellow	INV03
15	AUX Input 37	Violet-Blue	IN37	31	+5 Volt Reference	Red-White	5VREF
16	AUX Input 38	Violet-Orange	IN38	32	Ground	Black	GND