

Project	HTG - Domiworks 8HP Harness
Customer	Domiworks
P/N	DOMI8HP-HTG.030 onwards
Notes	V3 - For use with PN.DOMI8HP-HTG.030 onwards
Date	



GCU							
Connector	B4320-3311		Contacts				
Boot	Molex Plastic Cap						
Notes	Core - 4x16AWG & 2x22AWG Layer 1 - 2x24AWG TP, 2x22AWG & 9x20AWG Layer 2 - 2x22AWG						
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
A1	22AWG	AN_Out1	Spares Expansion	EXP - Pin 5	White		N/A
A2	22AWG	AN_Out2	Spares Expansion	EXP - Pin 6	White		N/A
A3	22AWG	Freq_In1	8HP	8HP - Pin 10	White		N/A
A4	22AWG	Freq_In2	8HP	8HP - Pin 8	White		N/A
B1	22AWG	AN_Out3	DBW Mod	DBWMOD - Pin 1	White		N/A
B2	22AWG	AN_Out4	DBW Mod	DBWMOD - Pin 2	White		N/A
B3	N/A	Freq_In3	N/A	N/A	N/A	N/A	N/A
B4	N/A	Freq_In4	N/A	N/A	N/A	N/A	N/A
C1	22AWG	AN_in1	8HP	8HP - Pin 3	White		N/A
C2	22AWG	AN_in2	8HP	8HP - Pin 4	White		N/A
C3	22AWG	AN_in3	Paddle Expansion	PADEXP - Pin 3	White		N/A
C4	22AWG	AN_in4	Paddle Expansion	PADEXP - Pin 4	White		N/A
D1	22AWG	AN_in5	DBW Mod	DBWMOD - Pin 3	White		N/A
D2	22AWG	AN_in6	DBW Mod	DBWMOD - Pin 4	White		N/A
D3	N/A	AN_in7	N/A	N/A	N/A	N/A	N/A
D4	N/A	AN_in8	N/A	N/A	N/A	N/A	N/A
E1	N/A	AN_in9	N/A	N/A	N/A	N/A	N/A
E2	N/A	AN_in10	N/A	N/A	N/A	N/A	N/A
E3	22AWG	AN_in11	Spares Expansion	EXP - Pin 7	White		N/A
F1	22AWG	AN_in12	Spares Expansion	EXP - Pin 8	White		N/A
F2	22AWG	Dig_In1	Paddle Expansion	PADEXP - Pin 1	White		N/A
F3	22AWG	Dig_In2	Paddle Expansion	PADEXP - Pin 2	White		N/A
F4	22AWG	Dig_In3	Spares Expansion	EXP - Pin 9	White		N/A
F5	22AWG	Dig_In4	Spares Expansion	EXP - Pin 10	White		N/A
G1	24AWG	CAN1 High	BUS 1	B1EXP - Pin 3	Red	N/A	N/A
G2	24AWG	CAN1 Low	BUS 1	B1EXP - Pin 4	Blue	N/A	N/A
G3	24AWG	CAN2 High	BUS 2	B2EXP - Pin 3	Yellow	N/A	N/A
G4	24AWG	CAN2 Low	BUS 2	B2EXP - Pin 4	Red	N/A	N/A
H1	20AWG	PWR_Out1	8HP	8HP - Pin 11	White		N/A
H2	20AWG	PWR_Out2	8HP	8HP - Pin 16	White		N/A
H3	20AWG	PWR_Out3	8HP	8HP - Pin 7	White		N/A
H4	20AWG	PWR_Out4	8HP	8HP - Pin 15	White		N/A
J1	20AWG	PWR_Out5	8HP	8HP - Pin 9	White		N/A
J2	20AWG	PWR_Out6	8HP	8HP - Pin 12	White		N/A
J3	20AWG	PWR_Out7	8HP	8HP - Pin 2	White		N/A
J4	20AWG	PWR_Out8	8HP	8HP - Pin 6	White		N/A
K1	20AWG	PWR_Out9	8HP	8HP - Pin 5	White		N/A
K2	N/A	PWR_Out10	N/A	N/A	N/A	N/A	N/A
K3	22AWG	PWR_Out11	Spares Expansion	EXP - Pin 11	White		N/A
K4	22AWG	PWR_Out12	Spares Expansion	EXP - Pin 12	White		N/A
L1	3x22AWG	12v+ IGN	12v+ IGN	PCI - Pin 4	White		N/A
L2	3x22AWG	S/GND	8HP Connector S/GND	8HP - Pin 14	White		N/A
L3	16AWG	P/GND	GND	GND Ring Terminal	White		N/A
L4	16AWG	P/GND	GND	GND Ring Terminal	White		N/A
M1	3x22AWG	5v+	8HP Connector 5v+	8HP - Pin 1	White		N/A
M2	2x22AWG	12v+ Out	Paddle Expansion	PADEXP - Pin 6, BUS2 - Pin 5	White		N/A
M3	16AWG	12v+ Batt	12v+ Batt	PCI - Pin 1	White		N/A
M4	16AWG	12v+ Batt	12v+ Batt	PCI - Pin 2	White		N/A

Breakout 1							
Connector	8HP Connector		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	22AWG	8HP	5v+	GCU - Pin M1	White		N/A
2	20AWG	8HP	PWR_Out7	GCU - Pin J3	White		N/A
3	22AWG	8HP	AN_in1	GCU - Pin C1	White		N/A
4	22AWG	8HP	AN_in2	GCU - Pin C2	White		N/A
5	20AWG	8HP	PWR_Out9	GCU - Pin K1	White		N/A
6	20AWG	8HP	PWR_Out8	GCU - Pin J4	White		N/A
7	20AWG	8HP	PWR_Out3	GCU - Pin H3	White		N/A
8	22AWG	8HP	Freq_In2	GCU - Pin A4	White		N/A
9	20AWG	8HP	PWR_Out5	GCU - Pin J1	White		N/A
10	22AWG	8HP	Freq_In1	GCU - Pin A3	White		N/A
11	20AWG	8HP	PWR_Out1	GCU - Pin H1	White		N/A
12	20AWG	8HP	PWR_Out6	GCU - Pin J2	White		N/A
13	16AWG	8HP	12v+	PCI - Pin 3	White		N/A
14	22AWG	8HP	S/GND	GCU - Pin L2	White		N/A
15	20AWG	8HP	PWR_Out4	GCU - Pin H4	White		N/A
16	20AWG	8HP	PWR_Out2	GCU - Pin H2	White		N/A

Paddle Expansion							
Connector	DTM-08P		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	22AWG	PADEXP	Up (Digital)	GCU - Pin F1	White		N/A
2	22AWG	PADEXP	Down (Digital)	GCU - Pin F2	White		N/A
3	22AWG	PADEXP	Up (Analog)	GCU - Pin C3	White		N/A
4	22AWG	PADEXP	Down (Analog)	GCU - Pin C4	White		N/A
5	22AWG	PADEXP	5v+	GCU - Pin M1	White		N/A
6	22AWG	PADEXP	12v+ Out	GCU - Pin M2	White		N/A
7	22AWG	PADEXP	GND	GCU - Pin L2	White		N/A
8	22AWG	PADEXP	N/A	N/A	N/A		N/A

BUS 1 Expansion							
Connector	DTM-04S		Contacts				
Boot	ATUM Boot						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	22AWG	B1EXP	12v+	PCI - Pin 4	Red		N/A
2	22AWG	B1EXP	GND	GND Ring Terminal	Black		N/A
3	22AWG	B1EXP	CAN High	BUS 1	Red	N/A	N/A
4	22AWG	B1EXP	CAN Low	BUS 1	Blue	N/A	N/A

BUS 2 Expansion							
Connector	DTM-04S		Contacts				
Boot	ATUM Boot						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	22AWG	B2EXP	12v+	PCI - Pin 4	Red		N/A
2	22AWG	B2EXP	GND	GND Ring Terminal	Black		N/A
3	22AWG	B2EXP	CAN High	BUS 2	Yellow	N/A	N/A
4	22AWG	B2EXP	CAN Low	BUS 2	Red	N/A	N/A
5	22AWG	B2EXP	Wake	GCU - Pin M2	White		N/A
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Expansion							
Connector	DTM-12S		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	22AWG	EXP	5v+	GCU - Pin M1	White		N/A
4	22AWG	EXP	S/GND	GCU - Pin L2	White		N/A
5	22AWG	EXP	AN_Out1	GCU - Pin A1	White		N/A
6	22AWG	EXP	AN_Out2	GCU - Pin A2	White		N/A
7	22AWG	EXP	AN_in11	GCU - Pin E3	White		N/A
8	22AWG	EXP	AN_in12	GCU - Pin E4	White		N/A
9	22AWG	EXP	Dig_In3	GCU - Pin F3	White		N/A
10	22AWG	EXP	Dig_In4	GCU - Pin F4	White		N/A
11	22AWG	EXP	PWR_Out11	GCU - Pin K3	White		N/A
12	22AWG	EXP	PWR_Out12	GCU - Pin K4	White		N/A

GND							
Connector	M8 Ring Terminal		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	16AWG	GND	GCU P/GND	GCU - Pin L3	Black		N/A
2	16AWG	GND	GCU P/GND	GCU - Pin L4	Black		N/A
3	22AWG	GND	EXP P/GND	EXP - Pin 2	Black		N/A
4	22AWG	GND	B1EXP P/GND	B1EXP - Pin 2	Black		N/A
5	22AWG	GND	B2EXP P/GND	B2EXP - Pin 2	Black		N/A

Power Connector (PC1)							
Connector	DT-04P		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	16AWG	Batt 12v+	GCU Batt 12v+	GCU - M3	White		N/A
2	16AWG	Batt 12v+	GCU Batt 12v+	GCU - M4	White		N/A
3	16AWG	Batt 12v+	8HP Batt 12v+	8HP - Pin 13	White		N/A
4	20AWG	Ign 12v+	GCU Ign 12v+	GCU - Pin L1	Red		N/A

DBW Mod							
Connector	DTM-04S		Contacts				
Boot	SCL Termination						
Notes							
Location	Conductor	Pin Designation	Function	Destination	Wire Colour	Ident	
1	22AWG	DBWMOD	AN_Out3	GCU - Pin B1	White		N/A
2	22AWG	DBWMOD	AN_Out4	GCU - Pin B2	White		N/A
3	22AWG	DBWMOD	AN_in5	GCU - Pin D1	White		N/A
4	22AWG	DBWMOD	AN_in6	GCU - Pin D2	White		N/A