

WIRING SCHEDULE



Customer: DCE		Designed by: DC		Date: 15th July 2020
Description: EPAS Ultra Wiring Harness		Part No: EPAS19		Serial No:
Issue	Date	Author	Notes	
1				
2				
3				
4				
5				

Connector Key

Conn No.	Description	Connector	Conn No.	Description	Connector
1	Power	AS616-08SN	19		
2	Signal	AS614-35SN	20		
3	Fault Lamp	2.8 Push On & Cover	21		
4	Electronics	DTM06-8S	22		
5	Comms	D9 Skt Housing	23		
6	Motor Power	80 Amp Tab Housing	24		
7	Torque	DTM06-4S-E007	25		
8	Motor	80 Amp Tab Housing	26		
9	Switch	Potted Switch	27		
10			28		
11			29		
12			30		
13			31		
14			32		
15			33		
16			34		
17			35		
18			36		

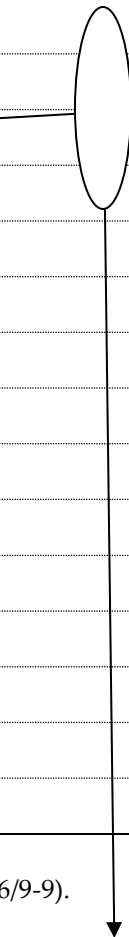
C1	Connector: AS616-08SN	Description: Power			
	Boot: 202K132	Label: POWER			
Pin #	Description	Destination	Cable	Length	Key
A	Battery +12v	Motor Power – 1	14 Red	400	
B	Battery +12v	Motor Power – 1	14 Red	400	
C	Ground	Motor Power – 2	14 Blk	400	
D	Ground	Motor Power – 2	14 Blk	400	
E	Motor +12v	Motor – 2	14 Red	1200	
F	Motor +12v	Motor – 2	14 Red	1200	
G	Motor 0v	Motor – 1	14 Blk	1200	
H	Motor 0v	Motor – 1	14 Blk	1200	

C2	Connector: AS614-35SN	Description: Signal			
	Boot: 202K132	Label: SIGNAL			
Pin #	Description	Destination	Cable	Length	Key
1	+12v	Splice 1	22 Red	100	
2	Ground	Electronics – 2	22 Blk	400	
3	Steering Angle	Electronics - 6	22	400	
4	Not Used				
5	Not Used				
6	Not Used				
7	Not Used				
8	Not Used				
9	Not Used				
10	Not Used				
11	Not Used				
12	Not Used				
13	Not Used				
14	Sensor 0v	Splice 2	24 Blk	100	
15	Sensor +5v	Splice 3	24 Red	100	
16	Tx	Comms – 2	24 Blu	500	
17	Rx	Comms – 3	24 Yel	500	

C2	Connector: AS614-35SN	Description: Signal			
	Boot: 202K132	Label: SIGNAL			
Pin #	Description	Destination	Cable	Length	Key
18	0v	Comms – 5	24 Blk	500	
19	CAN1 Hi (Internally linked to 29)	Electronics – 3	24 Red	400	TP1
20	CAN1 Lo (Internally linked to 30)	Electronics – 4	24 Blu	X	TP1
21	Not Used				
22	Not Used				
23	Torque – A	Torque – 3	24 Wht	1200	Scrn A
24	Torque – B	Torque – 4	24 Blu	X	Scrn A
25	Torque 0v	Drain/ Torque - 2	24 Grn/Blk	100/X	Scrn A
26	Torque +5v	Torque – 1	24 Red	X	Scrn A
27	Fault Lamp	Lamp – 2	24 Wht	1050	
28	Switch Sig	Switch – A	24 Pnk	1100	
29	CAN1 Hi (Internally linked to 19)				
30	CAN1 Lo (Internally linked to 20)				
31	Not Used				
32	Not Used				
33	Not Used				
34	Not Used				
35	Not Used				
36	Not Used				
37	Not Used				

TP1 = 24Awg Red/Blu Twisted Pair (55A0121-24-2/6)

Scrn A = 24Awg Red/Blk/Wht/Blu Shielded Cable (55A1141-24-0/2/6/9-9).



C3	Connector: 2.8 Pushon Cover: 2.8 Pushon Cover	Description: Fault Lamp			
	LED: CML Innovative Technologies 19040252	Label: FAULT//LAMP			
Pin #	Description	Destination	Cable	Length	Key
1	+12v	Splice 1	24 Red	X	
2	Sig	Signal - 27	24 Wht	X	

C4	Connector: DTM06-8S-E007 Terminal: 7x 0462-201-20141 Lock: WM8S	Description: Electronics			
	Boot: Atum + Packer	Label: ELECTRONICS			
Pin #	Description	Destination	Cable	Length	Key
1	+12v	Splice 1	22 Red	X	
2	Ground	Signal - 2	22 Blk	X	
3	CAN Hi	Signal - 19	24 Red	X	TP 1
4	CAN Lo	Signal - 20	24 Blu	X	TP 1
5	+5v	Splice 3	24 Red	X	
6	Steering Angle	Signal - 3	22	X	
7	0v	Splice 2	24 Blk	X	
8	Not Used				

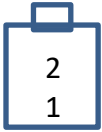
C5	Connector: D9 Skts (DEC9S) Terminal: 3x MP650-16(50)	Description: Comms			
	Boot: D9 Hood (MHDPPK9-K)	Label: COMMS			
Pin #	Description	Destination	Cable	Length	Key
1	Not Used				
2	Tx	Signal - 16	24 Blu	X	
3	Rx	Signal - 17	24 Yel	X	
4	Not Used				
5	0v	Signal -18	24 Blk	X	
6	Not Used				
7	Not Used				
8	Not Used				
9	Not Used				

C6	Connector: Yazaki 7122-4123-30	Description: Motor Power			
	Boot: N/A	Label: POWER			
Pin #	Description	Destination	Cable	Length	Key
1	+12v	Power - A + B	14 Red x 2	X/X	
2	Ground	Power - C + D	14 Blk x 2	X/X	



C7	Connector: DTM06-4S-E007	Description: Torque			
	Boot: 202K111	Label: TORQUE			
Pin #	Description	Destination	Cable	Length	Key
1	+5v	Signal - 26	24 Red	X	Scrn A
2	0v	Signal - 25	24 Blk	X	Scrn A
3	Sig A	Signal - 23	24 Wht	X	Scrn A
4	Sig B	Signal - 24	24 Blu	X	Scrn A

C8	Connector: Yazaki 7122-4123-30	Description: Motor			
	Lock: N/A	Label: MOTOR			
Pin #	Description	Destination	Cable	Length	Key
1	Ground	Power - G + H	14 Blk x 2	X/X	
2	+12v	Power - E + F	14 Red x 2	X/X	



C9	Switch: Lorlin CK1025 Knob: Bulgin KX0607	Description: Switch			
	Boot: 202D932	Label: SWITCH			
Pin #	Description	Destination	Cable	Length	Key
1	0v	Splice 2	24 Blk	X	
A	Sig	Signal - 28	24 Pnk	X	
6	+5v	Splice 3	24 Red	X	

All Resistors .125W 270R

