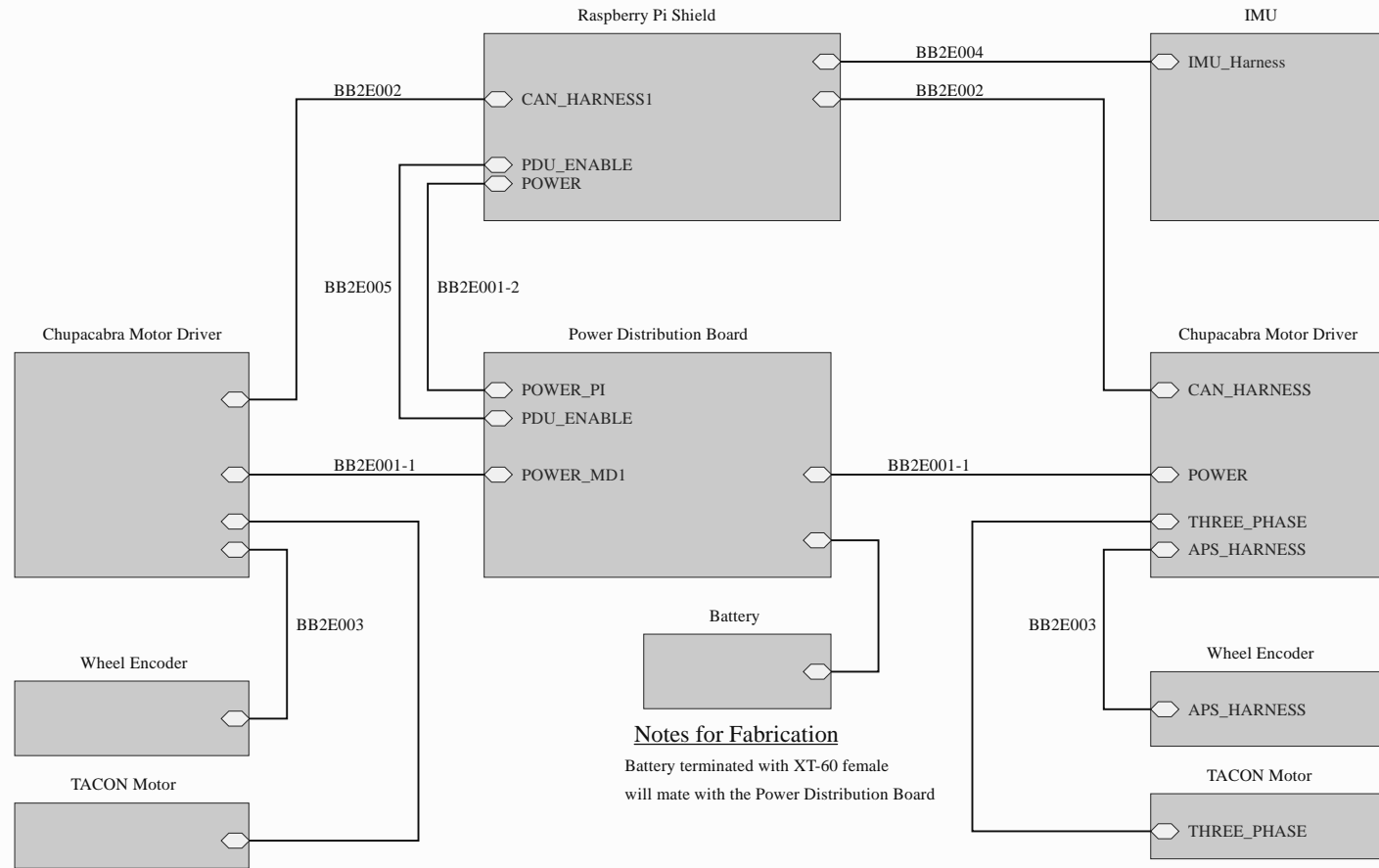


Bobble-Bot Electrical




Notes for Fabrication

Battery terminated with XT-60 female will mate with the Power Distribution Board

Notes for Fabrication

Motors terminated with bullet connectors will be changed to ring lugs.
 P/N 55803015 or substitute automotive grade ring lug

Title Bobble-Bot Electrical			S.O. Engineering	
Size: A	Engineer: James Holley	Revision: 2.1		
Date: 9/29/2019	Time: 12:55:45 PM	Sheet 1 of 6		

BB2E001

Parts List

Female Connector XT30-F
Male Connector XT30-M
Wire - 18 AWG 952140609

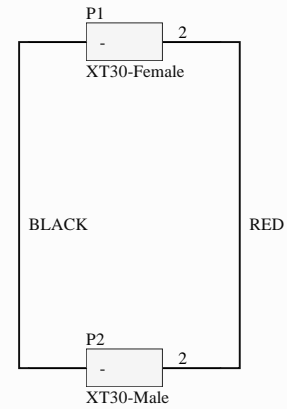
Variants

BB2E001-1 13cm
BB2E001-2 25cm

Notes for Fabrication

Shields shall be left floating

Heat shrink shall be applied to each end to cover exposed connector terminals.



Title **BB2E001**

S.O. Engineering

Size: A

Engineer: James Holley

Revision: 2.1

Date: 9/29/2019

Time: 12:55:45 PM

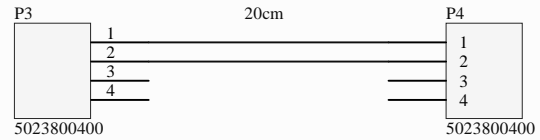
Sheet 2 of 6



BB2E002

Parts List

Male Connector 5023800400
Crimp Connectors 5023810000
Wire 26-28 AWG Cable
Twisted pair - various manufacturers.
Single pair of ethernet cable works well.



Notes for Fabrication

Wire protected by nylon mesh - P/N BSLNY025

Title BB2E002		
Size: A	Engineer: James Holley	Revision: 2.1
Date: 9/29/2019	Time: 12:55:45 PM	Sheet 3 of 6

S.O. Engineering



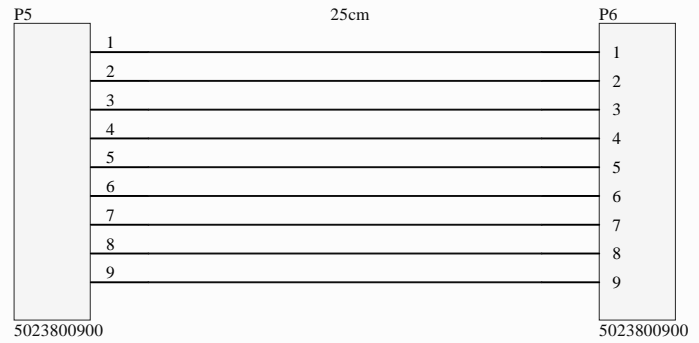
BB2E003


Parts List

Male Connector 5023800900
Crimp Connectors 5023810000
Wire 28 AWG Cable - 2671/28WH-1000

Notes for Fabrication

Wire protected by nylon mesh - P/N BSLNY025

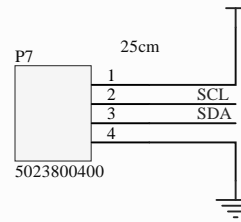


Title BB2E003			S.O. Engineering	
Size: A	Engineer: James Holley	Revision: 2.1		
Date: 9/29/2019	Time: 12:55:45 PM	Sheet 4 of 6		

BB2E004

Parts List

Male Connector 5023800900
Crimp Connectors 5023810000
Wire 28 AWG Cable - 2671/28WH-1000



Notes for Fabrication

Wire protected by nylon mesh - P/N BSLNY025
IMU is connected by flying leads - denoted on board silkscreen.
Length of cable is 10"

Title BB2E004		
Size: A	Engineer: James Holley	Revision: 2.1
Date: 9/29/2019	Time: 12:55:45 PM	Sheet 5 of 6

S.O. Engineering



BB2E005

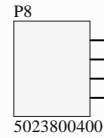
Parts List

Male Connector 5023800400
Crimp Connectors 5023810000
Wire 26-28 AWG Cable
 Twisted pair - various manufacturers.
 Single pair of ethernet cable works well.

Notes for Fabrication

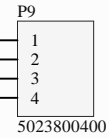
Wire protected by nylon mesh - P/N BSLNY025

Raspberry Pi Side



10cm

PDU Side



Notes for Fabrication

These leads can be connected to an external switch.
for additional control of power to motor drives.
If desired, they can be tied together as a loopback to bypass
the need for an external switch.

Title **BB2E005**

S.O. Engineering

Size: A

Engineer: James Holley

Revision: 2.1

Date: 9/29/2019

Time: 12:55:46 PM

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