Human Machine
Interface Block
Diagram

Upstream
Header

Downstream
Header

EGR314_Team303

Jahmel Garduno

Microchip Snap
Programmer

digital - Serial
(1 pin)

digital - Serial
(1 pin)

UART
[18,17]

MCLR
[1]

ICSPI
[27,28]

Pushbutton
Select info
[5]

digital - parallel
(1 pin)

DI
[5]

Microchip
PIC18F27Q10-ISO

SCL
[14]

Songhe OLED
128x64 Display
OLED Screen Display

Pushbutton
Confirm selection
[13]

digital - parallel
(1 pin)

DI
[13]

SDA
[15]

LM2575WU
1.23V ADJ 1.5A AC-
DC Switching
Regulator

Barrel Jack Adapter

PJ-102A

12V 3A AC-DC Wall
Power Supply