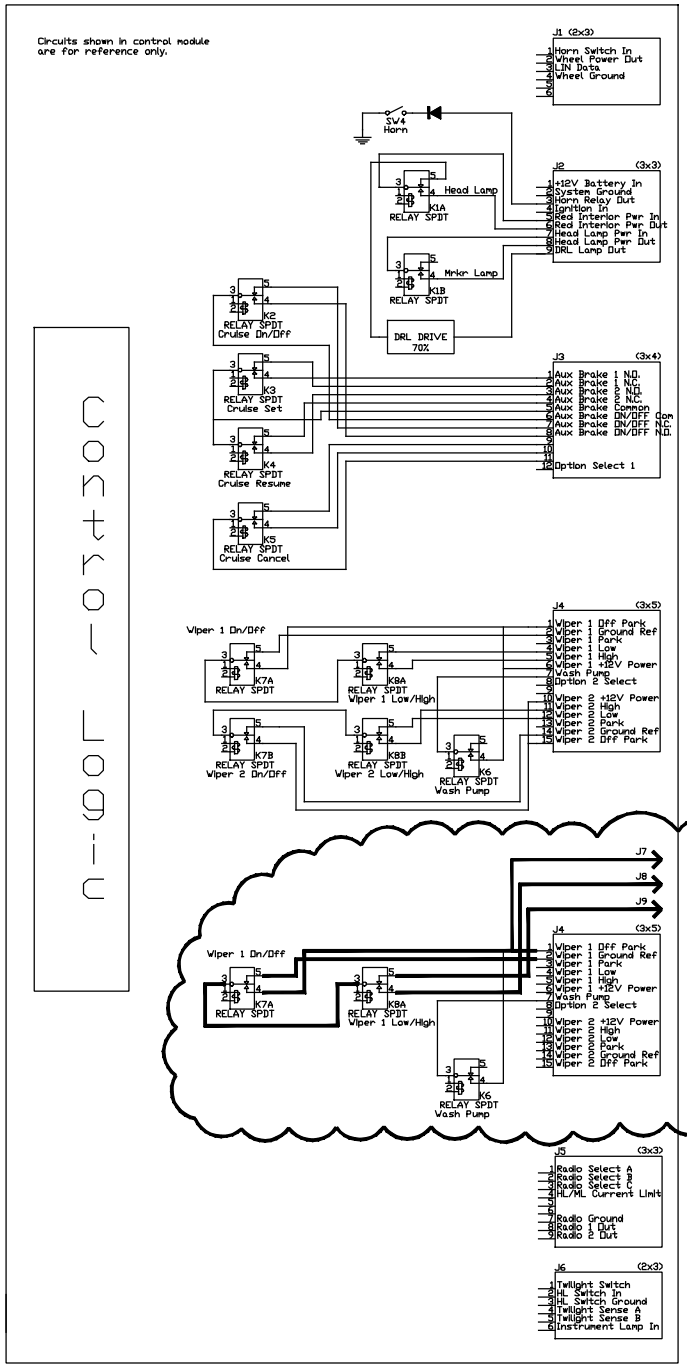
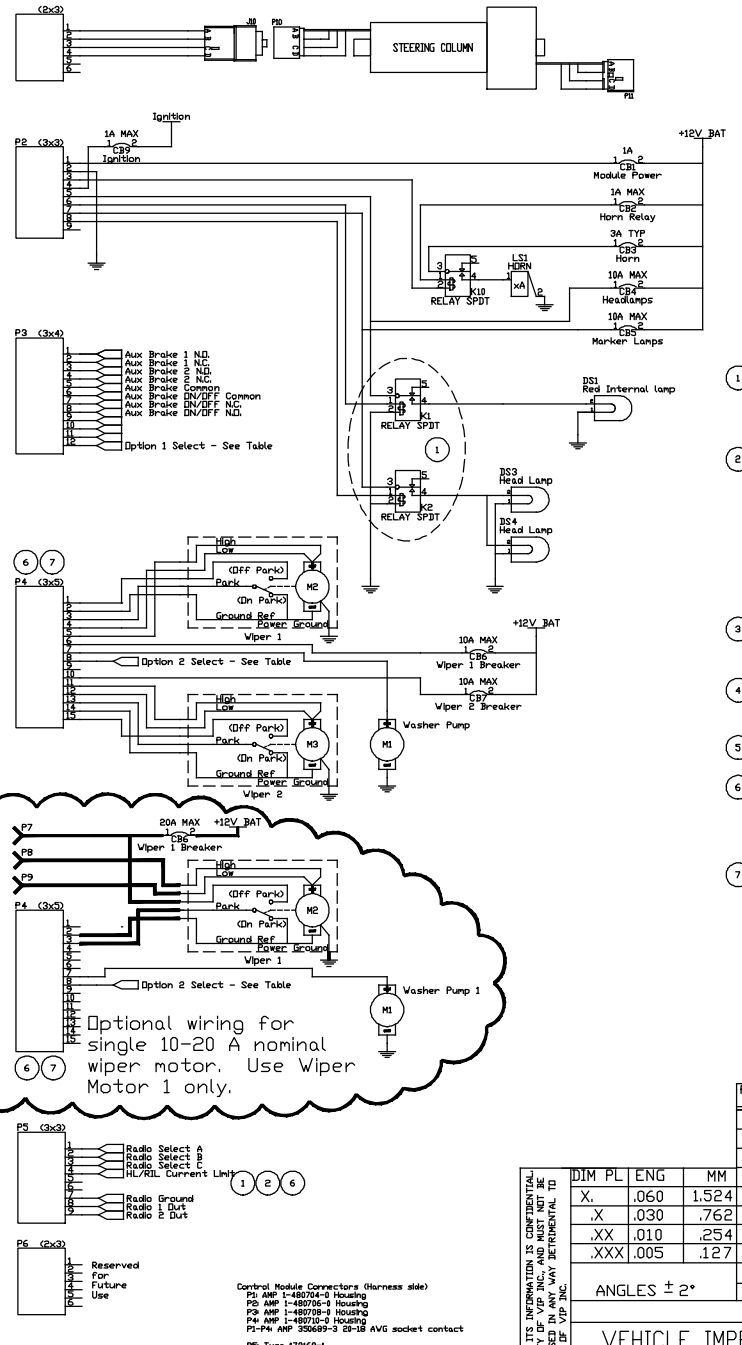
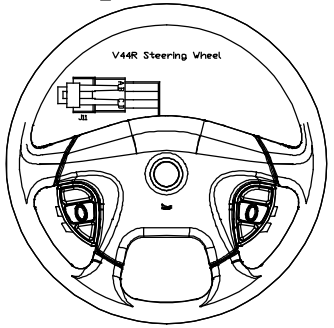
SM222 Control Module

Suggested Chassis Wiring







Control Module Connectors (Harness side)
P1: AMP 1-480704-0 Housing
P2: AMP 1-480706-0 Housing
P3: AMP 1-480708-0 Housing
P4: AMP 1-480710-0 Housing
P1-P4: AMP 350689-3 20-18 AVG socket contact

P5: Tyco 172169-1
P6: Tyco 172168-1
P5-P6: Tyco 770986-1 22 AVG socket contact

P7,P8,P9: 0.250" Insulated female quick disconnect, 20 Amp

COLUMN CONNECTOR
J10 PACKARD 12092163 Housing
PACKARD 12047581 AWG 20 Terminal

NOTES

1. Head lamp and Red Internal lamp relays may be omitted if each respective load is 10 A total or less. Control module output is internally limited to 10 A HL/DRL and 10 A ML. If current limit is enabled on J5.4 and wiring of lamps is as shown.

HL/RIL Current Limit	
DISABLED	OPEN
ENABLED	V BATT
N/A	GROUND

2. Radio connection and operation information is provided as-is with no guarantee of function for any given radio. Radio manufactures' inputs and controls vary from year to year and model to model. It is the responsibility of the installer to verify the correct wiring and functionality of any given radio with this system. Installer assumes all liability for any damage to control module, radio, etc

RADIO CONNECTIONS (TYPICAL)	
RADIO GROUND	3.5 MM PLUG SLEEVE
RADIO 1 OUT	3.5 MM PLUG TIP
RADIO 2 OUT	3.5 MM PLUG RING

	RAD SEL A	RAD SEL B	RAD SEL C
JENSEN	See VIP document 001778-TIV-00.DOC for radio configuration		
KENWOOD			
MAGNADYNE			
PIONEER			

3. The control module is designed to mount in the passenger compartment of the vehicle. The rated operating temperature range is -40 to +85 degrees C. The control module must not be exposed to the higher operating temperatures and moisture levels typical of the engine compartment or exposed areas of the vehicle.

4. Power ground for wiper motor(s) must always be provided by a chassis ground to the wiper motor case(s). The ground return to the control module is for dynamic braking and signal level reference only.

5. Circuit breaker ratings provided are typical or max allowable with appropriate wire selection. Proper wire and circuit protection is the responsibility of the installer. Unlabeled connections to controller other than wiper connections are rated for 1 A max.

6. Option selections are read on rising ignition.

Option 1 Select P3.12	V Batt	Diagnostic Mode
	Open	NA
	Ground	NA

Option 2 Select P4.8	V Batt	NA
	Open	NA
	Ground	NA

7. Single or dual wiper motors <= 10 A nominal use standard wiring through P4. Single wiper motor 10-20 A nominal use optional wiring through P4, P7, P8, P9.

PART REV	DRW REV	DESCRIPTION	DATE
A	A	Release	08-08-2018

DIM PL	ENG	MM
X.	.060	1.524
.X	.030	.762
.XX	.010	.254
.XXX	.005	.127
ANGLES ± 2°		

THIS DRAWING AND ITS INFORMATION IS CONFIDENTIAL. IT IS THE PROPERTY OF VIP INC., AND MUST NOT BE MADE PUBLIC OR USED IN ANY WAY DETRIMENTAL TO THE INTERESTS OF VIP INC.

VEHICLE IMPROVEMENT PRODUCTS INC.

DRAWN BY	TITLE	FILE NO.
VT	WIRING DIAGRAM, SM222	01778
DATE	SCALE	DRAWING NO.
08-08-2018	NONE	MPXW008
SIZE C	ANTIOCH, IL USA (847)-395-7250	