

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

Connector A - Metri-Pack 150 3-pin
 Connector B - Metri-Pack 150 6-pin
 Wire gauges are 0.5 - 20AWG unless otherwise noted

Vehicle Interior

AA Electronic Speedometer VSS

VSS

Speedometer/
PCM

Black/White (12v Sw Pwr)

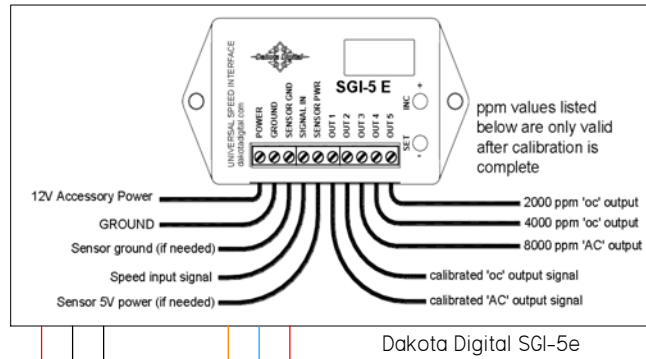
Black (Gnd)

Yellow/White (Sensor Sig)

OEM VSS wiring harness. OEM wiring colors for 97-99 Montero Sport . (see upper right)
 Remove OEM VSS connector at the transfer case and replace with appropriate connector.

Connector A

Body Penetration



Dakota Digital SGI-5e

Vehicle Exterior

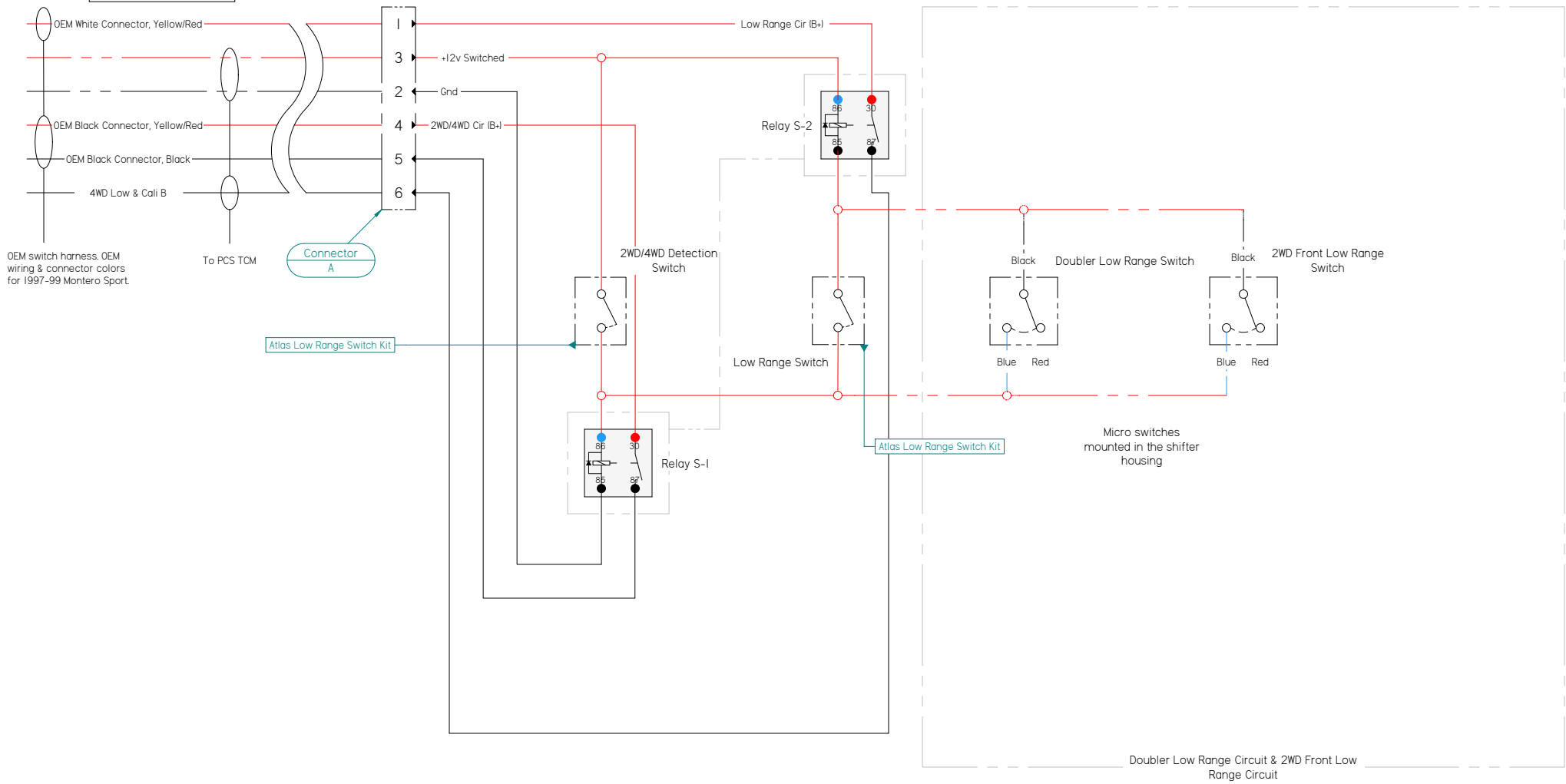
Orange 5v (Sensor Pwr)

Black/Blue (Sensor Gnd)

White/Orange (Sensor Sig)

DRAWN	NAME	DATE	Solid Edge	
CHECKED		03/14/18		
ENG APPR	1999 Mitsubishi Montero Sport Limited SAS E			
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLE: °XX		SIZE	DWG NO	REV
2 PL *XXX 3 PL *XXXX		D	4	8
SCALE		WEIGHT	SHEET 1 OF 11	

SWITCHES 1-2



OEM switch harness. OEM wiring & connector colors for 1997-99 Montero Sport.

To PCS TCM

Connector A

Atlas Low Range Switch Kit

Relay S-1

Low Range Switch

Relay S-2

2WD/4WD Detection Switch

Doubler Low Range Switch

2WD Front Low Range Switch

Micro switches mounted in the shifter housing

Doubler Low Range Circuit & 2WD Front Low Range Circuit

Connector A - Metri-Pack 150 6-pin

Wire gauges are 0.5 - 20AWG unless otherwise noted

Confirm OEM transfer case ground strap is not missing or removed, if so, replace with equivalent ground strap. 1999 Montero Sport FSM Vol 3 80A-19 A/T

(2) Advance Adapters' Atlas Low Range Switch Kits (P/N 300378A)

Description	Atlas Shifter Position		Shift Rail Detection Switches	
	Front	Rear	Front	Rear
2WD HI (rear)	N	H	open	open
2WD LO (rear)	N	L	open	closed
2WD LO (front)	L	N	closed	open
4WD HI	H	H	closed	open
4WD LO	L	L	closed	closed

- 2WD/4WD Detection Switch
- Low Range Detection Switch

Mitsubishi Low Range Circuit
Key on - B+
OEM Low Range Switch -
4WD HI Range open
4WD Low Range closed



Shifter micro-switch

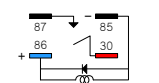
Honeywell V15W-WZ200A06-AW1
Blk - Common
Blu - NO
Red - NC

Alternatives -

- CPI E1117-553
- CPI E1092-555
- Honeywell V15W-DZ200A06-W2
- Honeywell V15W-DZ200A04-W2



(tall cover)
Micro relays S-1 and S-2 mount inside one, weather proof dual micro relay/fuse holder

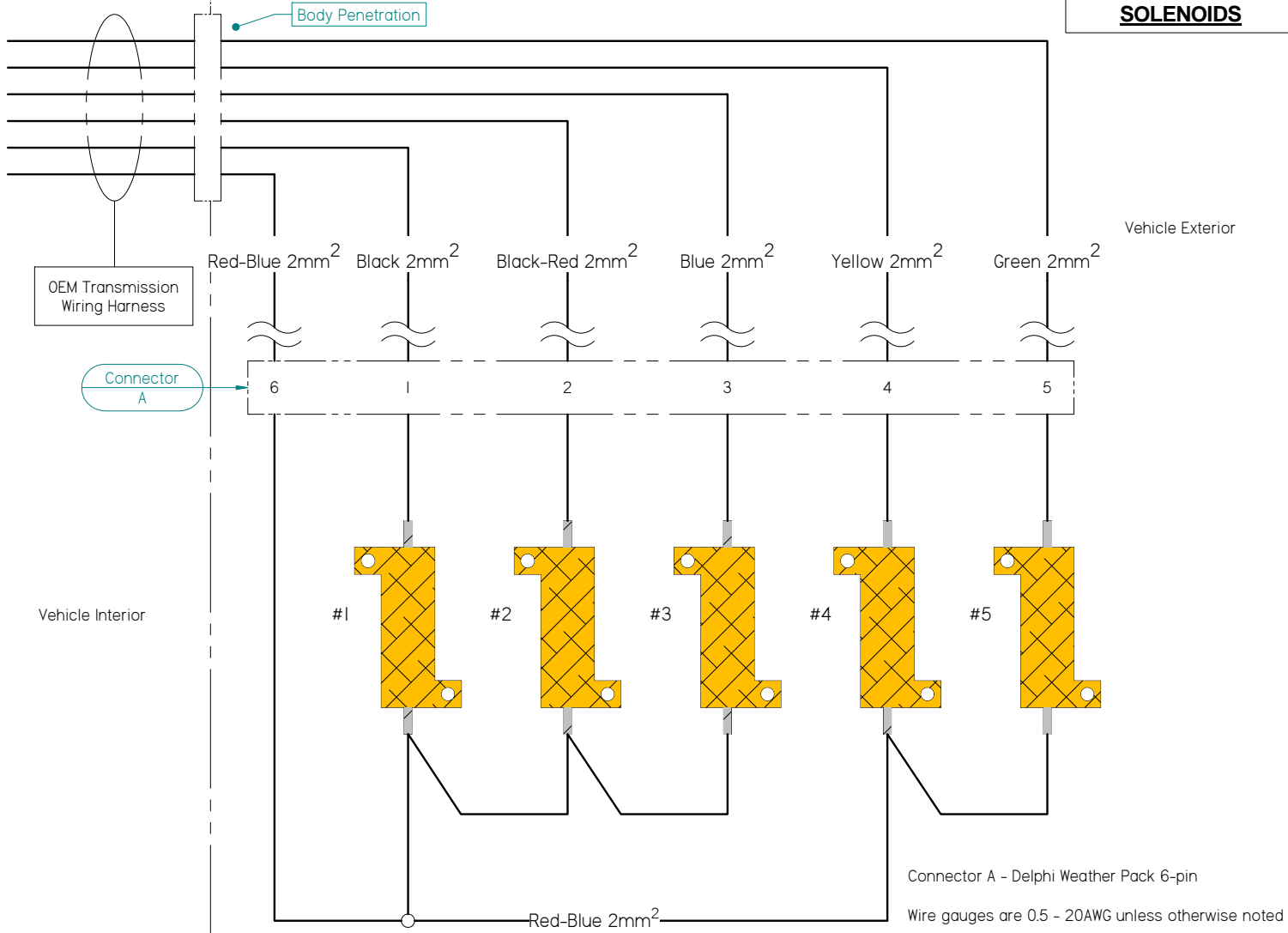


Song Chuan 303-IAH-S-D1-12VDC



SOLENOIDS

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



- #1: Underdrive Solenoid Valve
- #2: Second Solenoid Valve
- #3: Overdrive Solenoid Valve
- #4: Torque Converter Clutch Control Solenoid Valve
- #5: Low and Reverse Solenoid Valve

2mm² = 14 AWG

Vishay Dale
Resistor, Wirewound, Res 3
Ohms, Pwr-Rtg 50 W, Tol 1%,
Lug, Alum Housed, Military
P/N RH0503R000FE02



The five resistors replace the five internal transmission solenoids. These resistors carry a significant amount of current when in operation which the resistors will convert to heat. Locate in a well vented, protected area, on a large metal surface which the resistors can use as a heat sink, or mount to a appropriate heat sink.

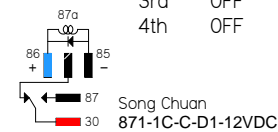
DRAWN	NAME	DATE	Solid Edge	
CHECKED		03/14/18		
ENG APPR	1999 Mitsubishi Montero Sport Limited SAS E			
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES °XX		SIZE	DWG NO	REV
2 PL. *XXX 3 PL. *XXXX		D	4	8
SCALE		WEIGHT	SHEET 4 OF 11	

SHIFTER

Vehicle Interior

AW4/A340 Tech

Gear	Sol 1 (A)	Sol 2 (B)
1st	ON	OFF
2nd	ON	ON
3rd	OFF	ON
4th	OFF	OFF



- Connector A - Metri-Pack 150 3-pin
- Connector B - Metri-Pack 150 8-pin
- Connector C - Metri-Pack 150 8-pin
- Connector D - Metri-Pack 150 8-pin
- Connector E - Metri-Pack 280 2-pin
- Connector F - Transmission Range Switch OEM 10-Pin
- Diode - 3A Schottky 'Blocking' or 'Barrier' Diode
- Wire gauges are 0.5 - 20AWG unless otherwise noted

Body Gnd, 1999 Montero Sport FSM Vol3, 70-5 #9



2nd 1st 3rd 4th

Vehicle Exterior

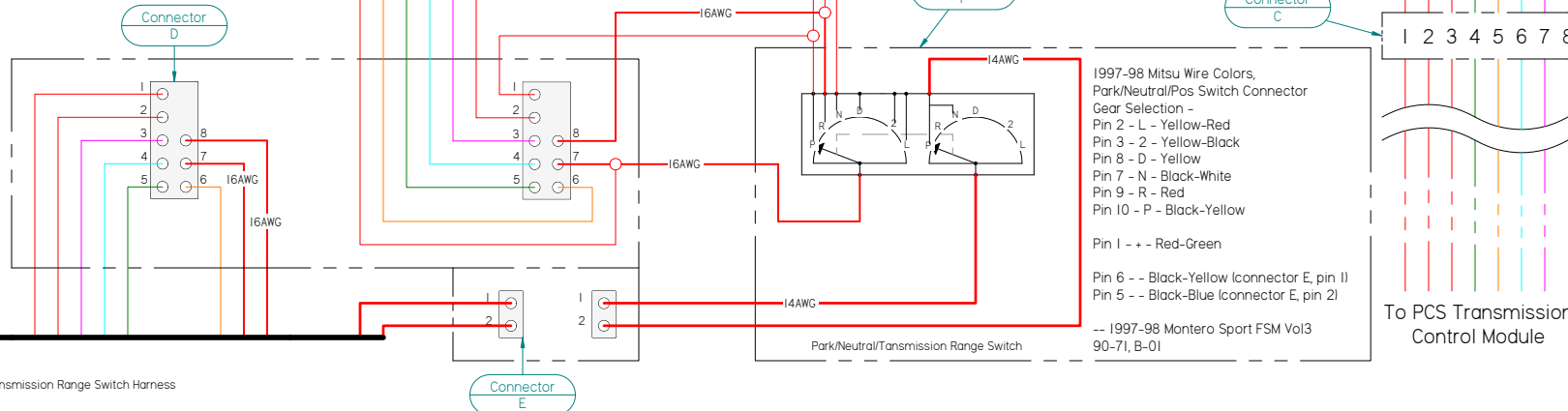
1999 Mitsu Wire Colors at Park/Neutral Position
Switch (existing OEM harness wiring)

- Gear Selection -
- L - Yellow-Red
- 2 - Yellow-Black
- 3 - Blue
- D - Yellow
- N - Black-White
- R - Red
- P - Black-Yellow

+ - Red-Green

Black-Blue (connector E, pin 1)
Black-Blue (connector E, pin 2)

-- 1999 Montero Sport FSM Vol3 90-91, B-01



- 1997-98 Mitsu Wire Colors,
Park/Neutral/Pos Switch Connector
- Gear Selection -
 - Pin 2 - L - Yellow-Red
 - Pin 3 - 2 - Yellow-Black
 - Pin 8 - D - Yellow
 - Pin 7 - N - Black-White
 - Pin 9 - R - Red
 - Pin 10 - P - Black-Yellow
- Pin 1 - + - Red-Green
- Pin 6 - - Black-Yellow (connector E, pin 1)
Pin 5 - - Black-Blue (connector E, pin 2)
- 1997-98 Montero Sport FSM Vol3
90-71, B-01

To PCS Transmission
Control Module

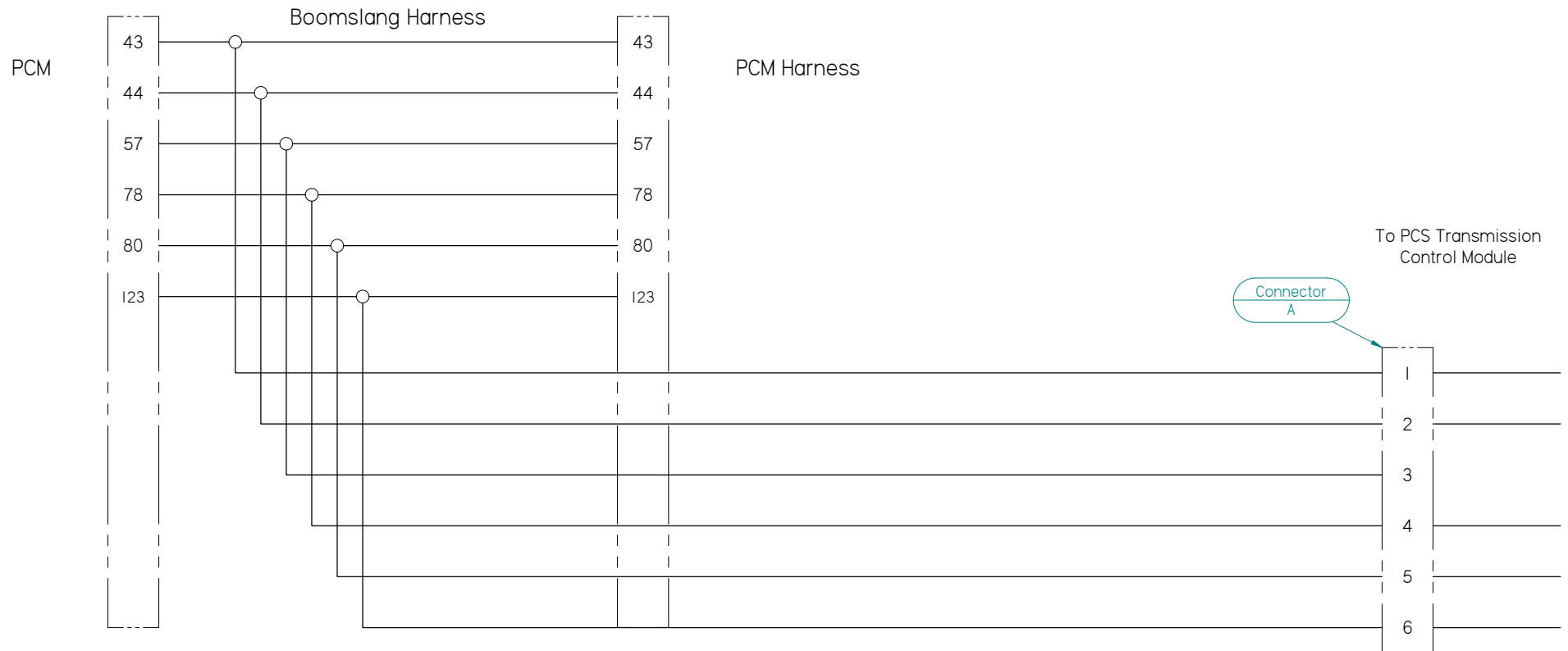
OEM Park/Neutral/Transmission Range Switch Harness

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

BOOMSLANG

Connector A - Metri-Pack 150 10-pin

Wire gauges are 0.5 - 20AWG unless otherwise noted



To PCS Transmission Control Module

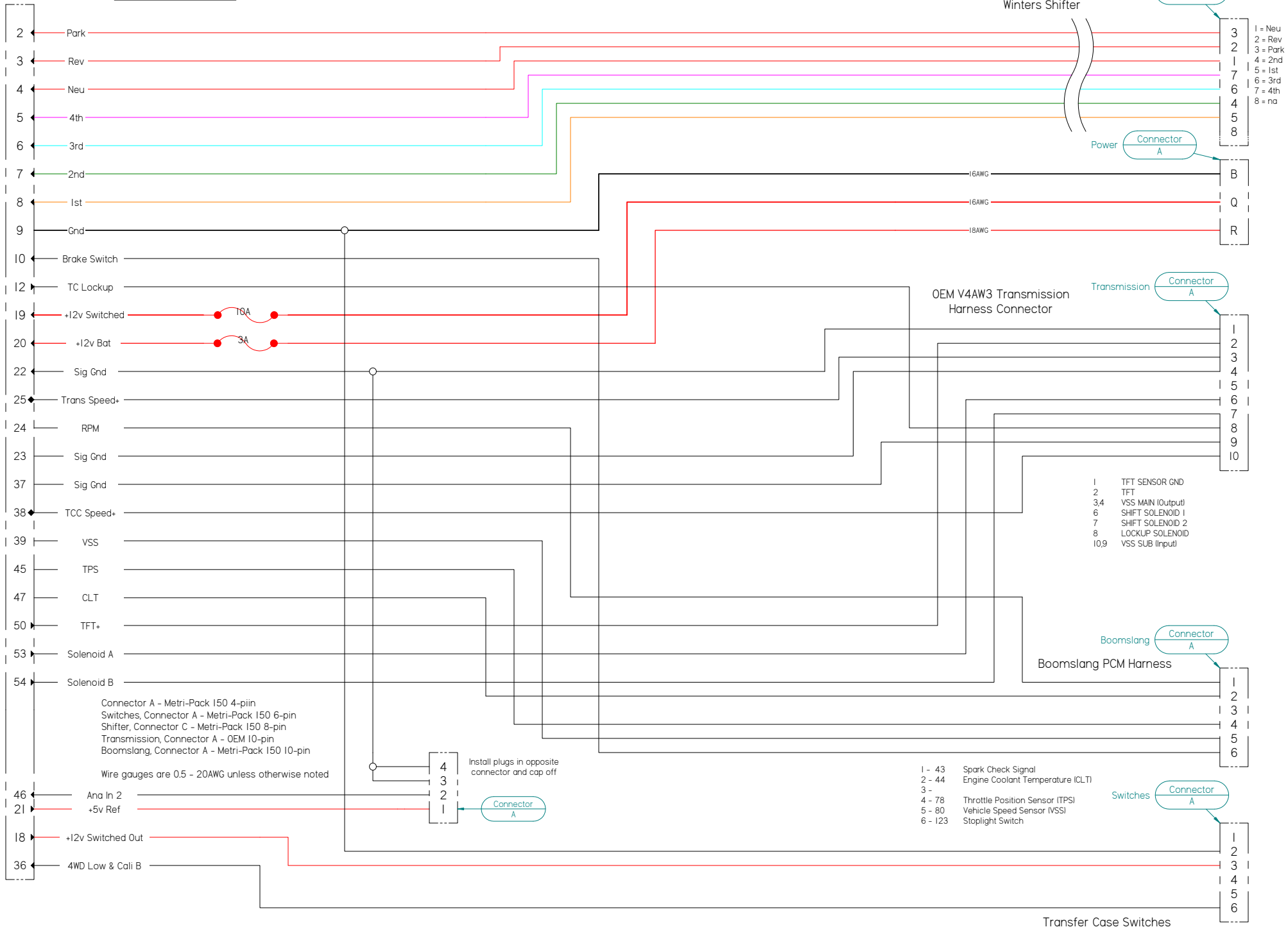
Connector A

- 1 - 43 Spark Check Signal
- 2 - 44 Engine Coolant Temperature (CLT)
- 3 - 57 Sensor Ground
- 4 - 78 Throttle Position Sensor (TPS)
- 5 - 80 Vehicle Speed Sensor (VSS)
- 6 - 123 Stoplight Switch
- 7 -
- 8 -
- 9 -
- 10 -

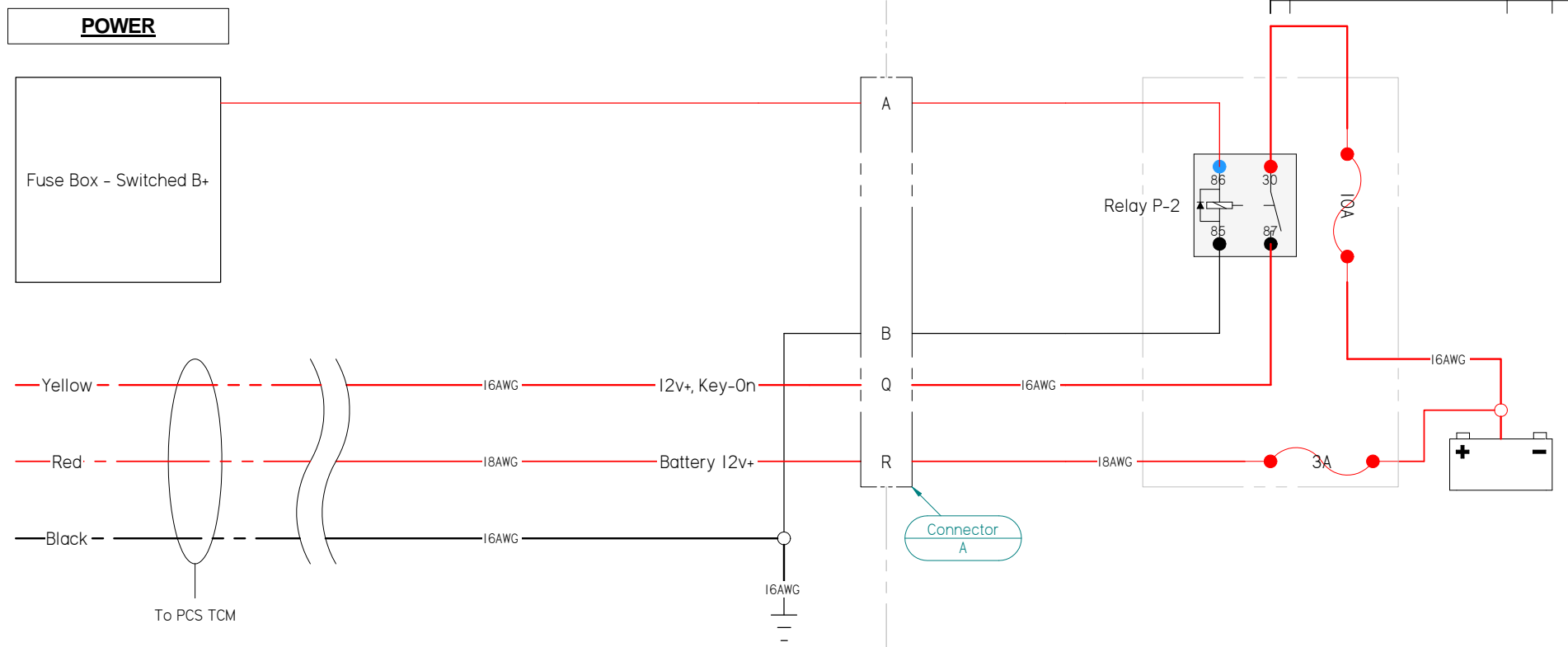
DRAWN	NAME	DATE	Solid Edge	
CHECKED		03/14/18		
ENG APPR	1999 Mitsubishi Montero Sport Limited SAS E		TITLE	
MGR APPR			SIZE	REV
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLE: °XX			D	4
2 PL *XXX 3 PL *XXXX			FILE NAME: Advanced Adapters Electronic Speedometer Housing	8
SCALE			WEIGHT	SHEET 6 OF 11

PCS TCM

TCM

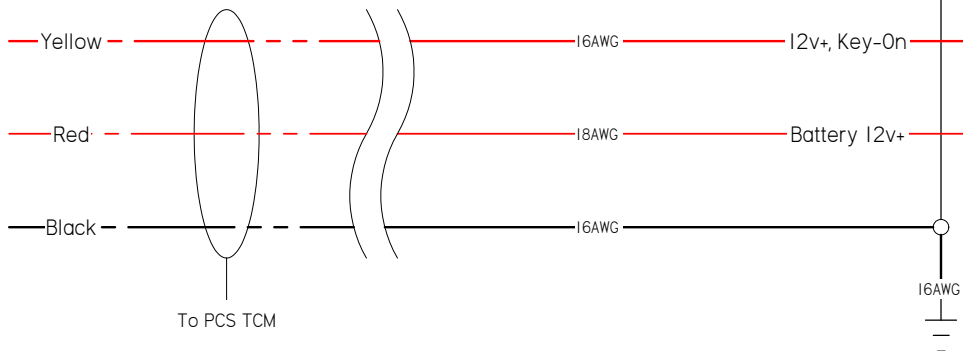


REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED



POWER

Fuse Box - Switched B+

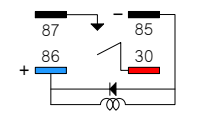


Body Gnd; 1999 Montero Sport FSM Vol3, 70-5 #9

Micro relay P-2 and two fuses mount inside one, weather proof micro relay/fuse holder



(tall cover)



Song Chuan 303-1AH-S-DI-12VDC



Vehicle Interior

Vehicle Exterior

Connector A - Weather Pack Bulkhead 22-pin

Wire gauges are 0.5 - 20AWG unless otherwise noted

See PCS diagrams for details of power and ground wiring

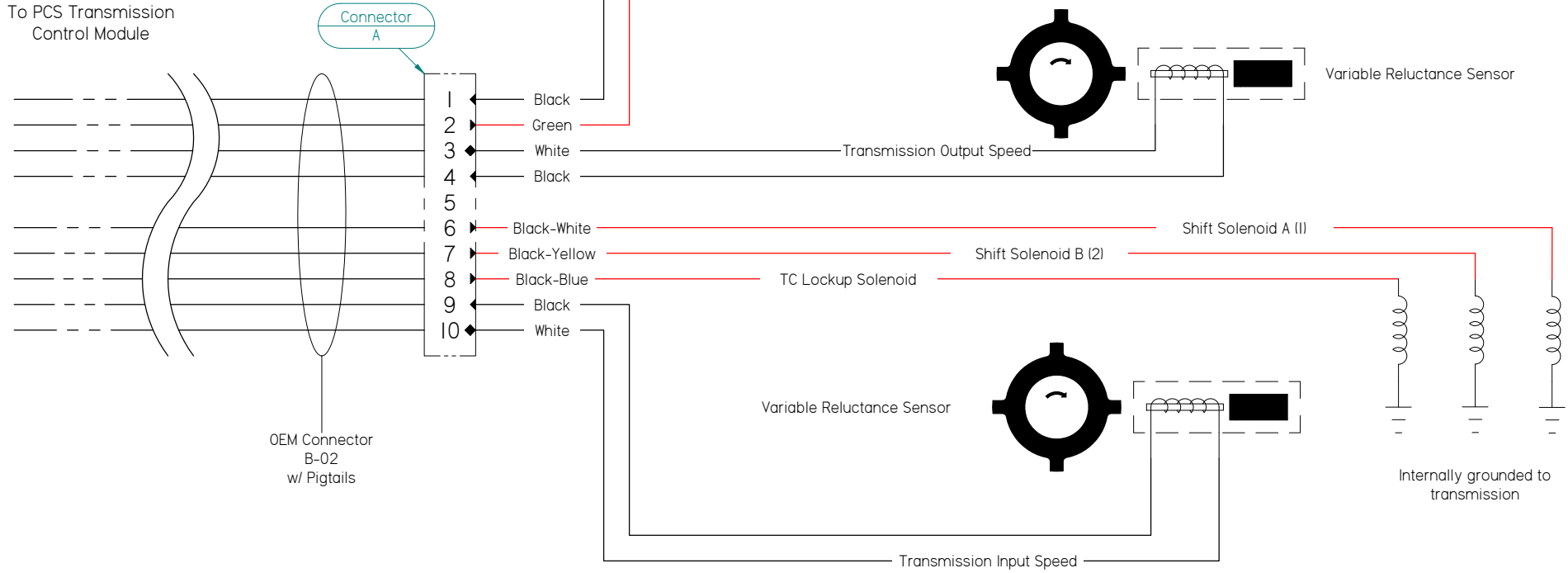
	NAME	DATE	Solid Edge	
DRAWN		03/14/18		
CHECKED				
ENG APPR	1999 Mitsubishi Montero Sport Limited SAS E			
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLE: *XX			SIZE DWG NO	REV
2 PL *XXX 3 PL *XXXX			D 4	8
			FILE NAME: Advanced Adapters Electronic Speedometer Housing to	
			SCALE	WEIGHT
			SHEET 8 OF 11	

TRANSMISSION

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

OEM V4AW3 Transmission
Harness Connector

To PCS Transmission
Control Module



OEM Connector
B-02
w/ Pigtails

- 1 TFT SENSOR GND
- 2 TFT
- 3,4 VSS MAIN (Output)
- 6 SHIFT SOLENOID 1
- 7 SHIFT SOLENOID 2
- 8 LOCKUP SOLENOID
- 10,9 VSS SUB (Input)

Transmission Fluid Temperature Sensor -

Negative Temperature Coefficient Sensor

temp+ = resistance decreases
temp- = resistance increases

- 14F = 5.6 Ohm *
- 77F = 10 KOhm *
- 248F = 615 Ohm *
- 444F = 10 Ohm *

* unconfirmed

Connector A - OEM 10-pin

Wire gauges are 0.5 - 20AWG unless otherwise noted

	NAME	DATE	Solid Edge	
DRAWN		03/14/18		
CHECKED				
ENG APPR	1999 Mitsubishi Montero Sport Limited SAS E			
MGR APPR				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES °X.X			SIZE DWG NO D 4	REV 8
2 PL *XXX 3 PL *XXXX			FILE NAME: Advanced Adapters Electronic Speedometer Housing to	SCALE WEIGHT SHEET 9 OF 11