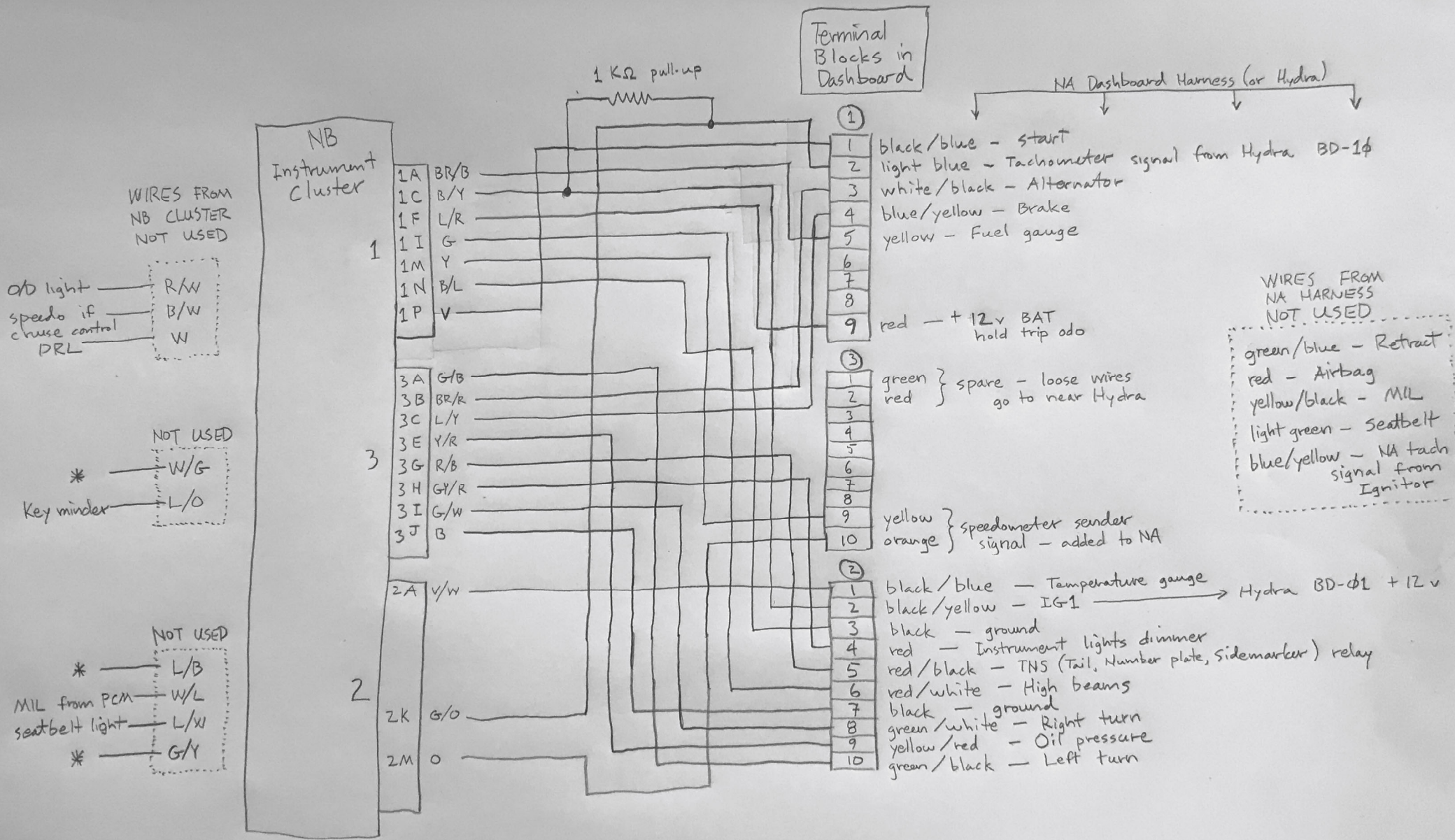


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**WIRING DIAGRAMS**  
**Article Text (p. 6)**  
 1992 Mazda Miata  
 For Yorba Linda Miata  
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 Saturday, May 10, 2003 11:21AM

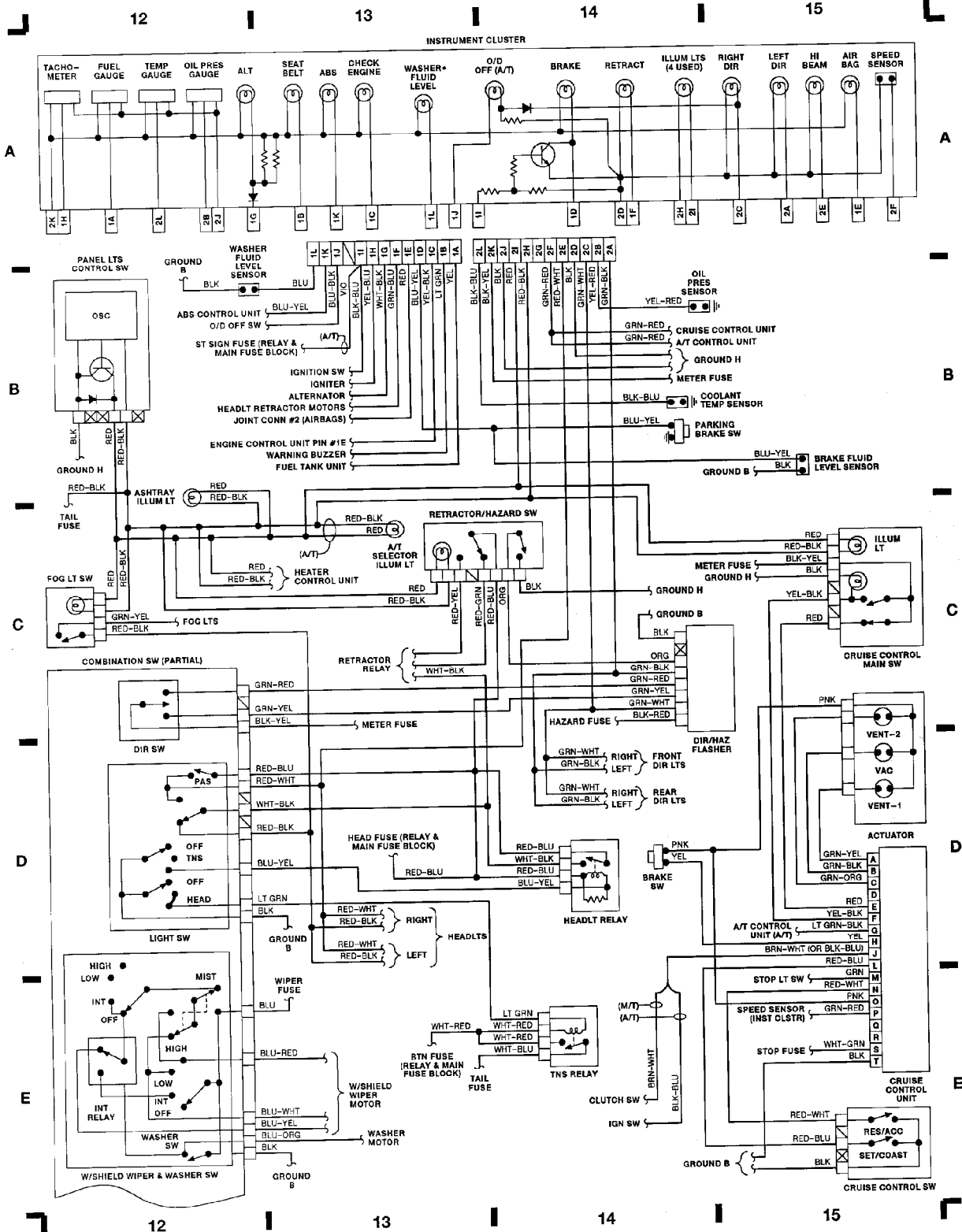


Fig. 4: Instrument Clstr, Combo Sw (Prtl), Cruise Ctrl (Grid 12-15)

They are in the wiring diagram section C-a and C-b but for those without diagrams, here they are:

There are three connectors 1, 2 and 3. From the driver's seat 1 is on the left, 3 in the middle and 2 on the right. Each connector pinout starts at "a" and the blue circuit is labelled with an appropriately placed "a".

1a= BR/B - Fuel System (ECU and fuel gauge sender)

1b= BR/Y - Cruise Light (from cruise module)

1c= B/Y +12v Switched (from meter fuse)

1d= No wire or P/B - If applicable, ABS light (from ABS module)

1e= No wire or R/W - If applicable, Automatic O/D light (from transmission control module)

1f= L/R +12v Unswitched from Room fuse

1g= Not used

1h= W - DRL module (high beam light) - No wire if no DRL

1i= R/Y - Headlight relay (via LH headlight fuse) - note R if no DRL

1j= not used

1k= not used

1L= W/R - Door switch (interior lights)

1m= Y - Speed sensor for manual. No wire for automatic

1n= B/L - Ground

1o= not used

1p= V - Start signal - from ign switch on manual. B/R from transmission control module if auto

2a= V/W - Water temp (from temp sensor)

2b= L/W Seat belt (seat belt switch - driver's side reel)

2c thru 2j not used

2k= G/O - ECU (and data link connector - also transmission control module if auto)

2L= W/B - ECU and cruise control module

2m= O - Speed sensor for manual. B/W from transmission control module for auto

2n= not used - goes to empty lamp socket

2o= W/L - ECU - controls CEL

2p= not used

3a= G/B - Left turn signal

3b= BR/R - ECU

3c= L/Y - Brake fluid light (and DRL control module. If no DRL then also to parking brake switch)

3d= BR - Air Bag module (and data link connector)

3e= Y/R - Oil Pressure "gauge" switch

3f= L/O - Key reminder switch

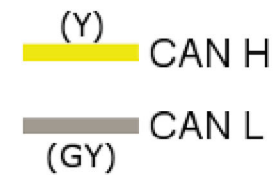
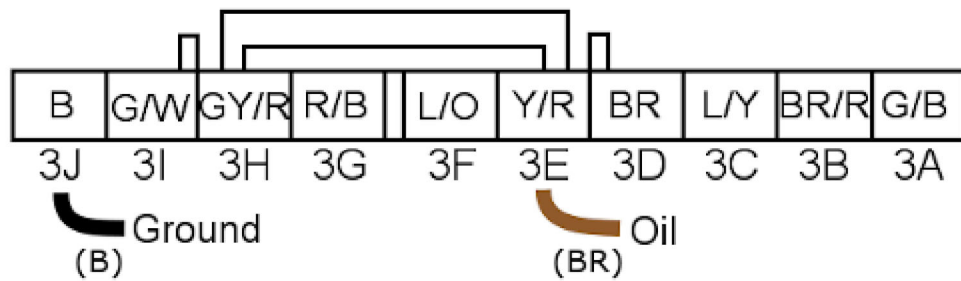
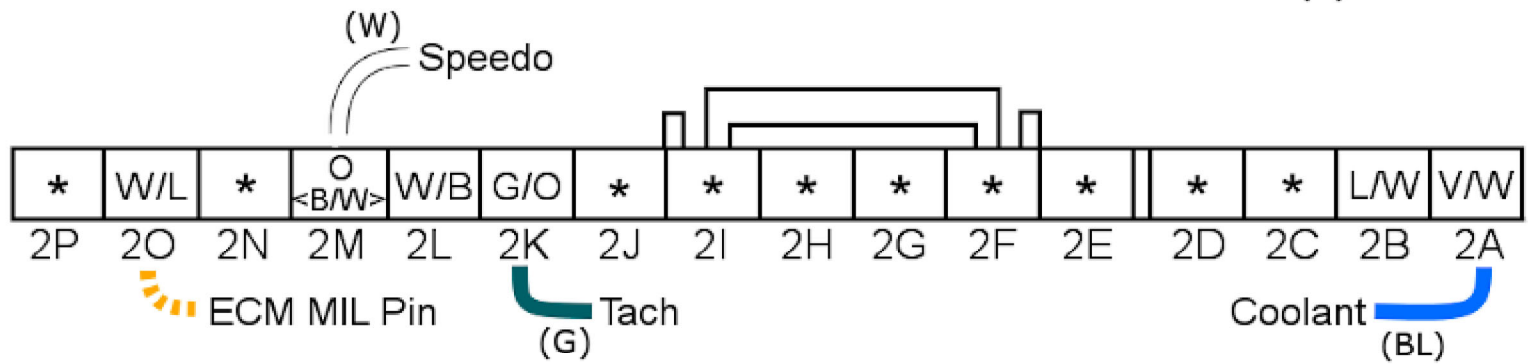
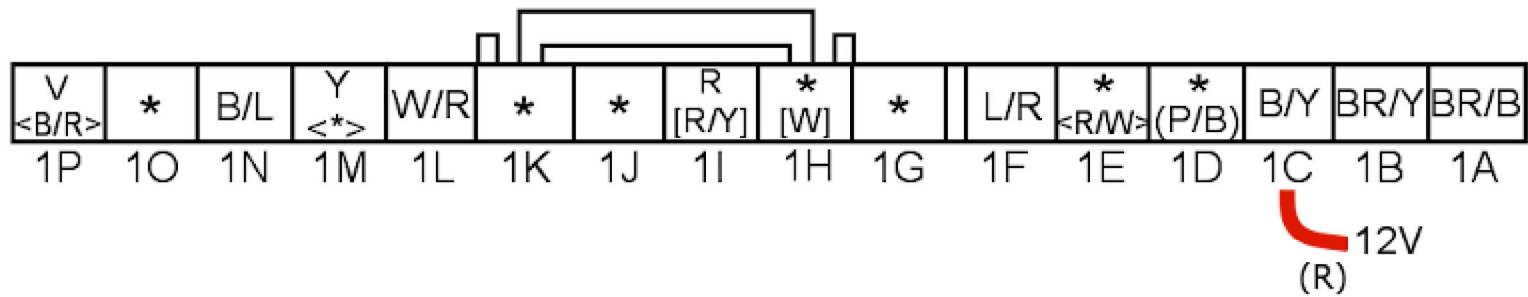
3g= R/B - Instrument lights +12v from TNS relay

3h= GY/R - Instrument lights dimmer control to ground

3i= G/W - Right turn signal

3j= B - Ground (connects internally in cluster to high beam light if no DRL)

L=Blue, B=Black, BR=Brown, G=Green, GY=Grey, O=Orange, R=Red, W=White, Y=Yellow & V=Violet



<b>99 NB to 90 NA Cluster swap</b>	<b>1990</b>	<b>1999</b>		
	<b>Connector 1 is White Connector</b>	<b>Connector 1 is Big White Connector</b>		
	<b>Connector 2 is Black Connector</b>	<b>Connector 2 is Black Connector</b>		
		<b>Connector 3 is Small Center Connector</b>		
Ignition Switch/Starting System	Violet? & Black/blue (Bigger wire on White Connector) both run into pin 1H	Brown/Red (Or Violet) 1P		
Coolant Temp Sensor	Black/Blue (Black Connector) PIN 2L	Violet/White 2A		
O/D Off Switch	Blue/Black Pin 1J	1E red/White A/T TCS	<b>Not Applicable In my car</b>	
Speed Sensor	N/A	Orange 2M (Black Connector) & Yellow 1M	<b>Hook up once have speed sensor for SR</b>	Ran green/brown
Headlight Retract Motors	Green/Blue Pin 1F	N/A	<b>Hook this up to what wire on NB cluster??</b>	
Parking Brake Switch	Blue/Yellow Pin 1D	Blue/Yellow 3C		
Warning Buzzer Seat Belt	Light Green Pin 1B	Blue/White 2B		
Fuel Tank Unit	Yellow Pin 1A	Brown/black 1A		
Alternator	White/Black Pin 1G	Brown/Red 3B		
Joint Conn #2 (Airbags) /SAS Module	Red Pin 1E	Brown 3D	<b>Cancel out all Airbag lights etc</b>	
Anti Lock Brake System	N/A	Pink/Black 1D	<b>Not Applicable In my car</b>	
Meter Fuse	Black/Yellow Pin 2K	Black/yellow 1C		
Illuminator	Red Pin 2I	Grey/Red 3G		
Illuminator	Red/Black Pin 2H	Red/Black 3H		
Oil Pressure Sender	Yellow/Red Pin 2B	Yellow/Red 3E		
Cruise Control Unit	Green/Red Pin 2F	Brown/Yellow 1B	<b>Not Applicable In my car</b>	
Right DIR	Green/White Pin 2C	3I Green/White		
Left DIR	Green/Black Pin 2A	3A Green/Black		
Ground	Black Pin 2D	Black 3J		
Ground for Gauges	Black Pin 2J	Black/Blue 1N		
<b>12+ UNswitched For trip Count(Constant Hot)</b>	<b>N/A</b>	<b>Blue/Red 1F (Wire into the Radio Constant 12V Blue/Red Wire)</b>	<b>MUST Add this wire in to keep a trip count otherwise it will reset after the key is turned off each time</b>	
Highbeam	Red/White	1I Red		
CEL Lamp	Yellow/Black Pin 1C	White/Blue (Black Connector) 2O		
Key Reminder	N/A	Blue/Orange 3F		
Interior Light System (DOOR SWITCH)	N/A	1L White/Red	<b>Not Applicable In my car</b>	
<b>Engine Controls System? OBD2 reader ?</b>	<b>?</b>	<b>2L White/Black</b>	<b>Not Applicable In my car</b>	
Tach (RPM)	Yellow/Blue 1H	Green/Orange 2K		
<b>Headlight Relay</b>	<b>N/A</b>	<b>Green</b>	<b>Not in my application. If in Yours Needs to be Grounded</b>	