

NOTE: THE CONNECTIONS ARE SHOWN FOR EACH WARNING LAMP, ABOVE AND BELOW THE SYMBOL.

THE BASIS OF THIS DRAWING IS THE INSTRUMENT CLUSTER FROM MY 1979 PRE HE XJ-S COUPE. THERE MAY BE SOME ERRORS IN THE DETAIL. THIS HAD A MECHANICAL SPEEDO, BUT I NEEDED AN ELECTRONIC SPEEDO AS USED IN LATER HE CARS. TO DO THIS I BOUGHT A SECONDHAND COMPLETE CLUSTER FROM AN HE CAR OF UNKNOWN YEAR. THE HE CLUSTER PRINTED CIRCUIT BOARD CONNECTION WISE LOOKS EXACTLY THE SAME AS THE PRE HE, WITH THE ADDITION OF CONNECTIONS FOR AN ELECTRONIC SPEEDO. THERE IS A SLIGHT DIFFERENCE IN THE SHAPE OF THE HE CIRCUIT BOARD NEAR THE SPEEDO.

THE HE CLUSTER HAS DIFFERENT SYMBOLS FOR THE WARNING LAMPS, AND DIFFERENT FUNCTIONS IN SOME CASES. THE COLOUR CODE OF WIRING TO THE J1 AND J2 CONNECTORS WILL NOT ALL BE SIMILAR.

ON THE PRE HE J1 AND J2 CONNECTOR WIRING THE "WL" SIGNIFIES CONNECTION TO A WARNING LAMP. I USED THE HE CLUSTER FOR MY PRE HE CAR, BUT CHANGED OVER THE MOULDING WITH THE WARNING LAMP SYMBOLS TO MATCH THE WIRING IN THE PRE HE CAR.

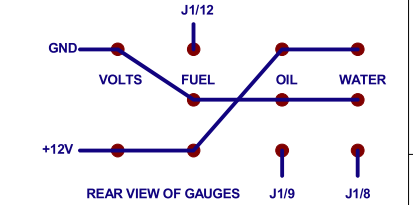
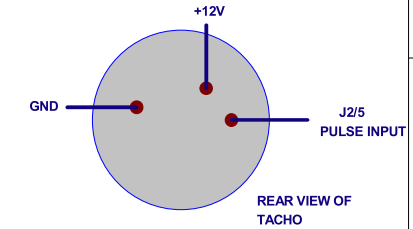
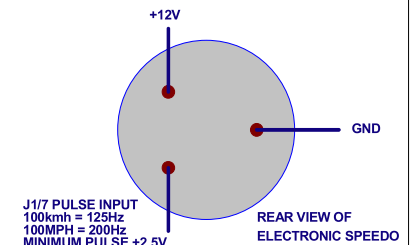
THE WARNING LAMPS DRAW 90mA EACH @ 12V, NOMINAL 1W RATING. THE ILLUMINATION LAMPS DRAW 180mA @ 12V, NOMINAL 2W RATING.

THESE WIRE COLOURS ONLY AS FOUND ON 1979 PRE HE

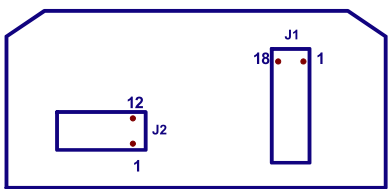
WL OVER VOLTAGE	RB RED/BLACK	18	1	UW BLUE/WHITE	WL HIGH BEAM
WL LOW COOLANT	WU WHITE/BLUE	17	2	RY RED/YELLOW	WL FOG LAMP
WL BRAKE FLUID LEVEL	BY BLACK/YELLOW	16	3	BW BLACK/WHITE	DEMIST
WL OIL PRESSURE	BN BLACK/BROWN	15	4	LGN GREEN/BROWN	FLASHER UNIT (+12V)
WL PARK BRAKE	BW BLACK/WHITE	14	5	WG WHITE/GREEN	WL LH FLASH
SEAT BELT LOOP	P PURPLE	13	6		
FUEL GAUGE	LGO GREEN/ORANGE	12	7	Y OR W/Y	ONLY FOR ELECTRONIC SPEEDO PULSE
SEAT BELT LOOP	OG ORANGE/GREEN	11	8	GU GREEN OR GREEN/BLUE	WATER TEMP GAUGE
WL PARK LAMP FAIL	WS WHITE/SLATE	10	9	WN WHITE/BROWN	OIL GAUGE

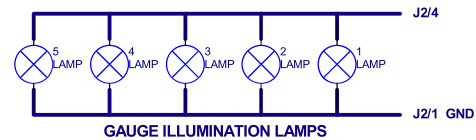
WL STOP	GW GREEN/WHITE	12	1	B BLACK	GROUND
WL IGNITION	NB BROWN/BLACK	11	2		
WL LOW FUEL	NK BROWN/PINK	10	3	G GREEN	+12V THRU 10A FUSE FROM IGN SWITCH FOR GAUGES ONLY
+12V FROM IGN SWITCH FOR WARNING LAMPS ONLY	W WHITE	9	4	RW RED/WHITE	+12V THRU RHEOSTAT FOR ILLUMINATION LAMPS
		8	5	WUS WHITE/BLUE SPIRAL	TACHO PULSE
WL HAZARD	GU GREEN/BLUE	7	6	GR GREEN/RED	WL RH FLASH



GAUGE TEST:  
SUGGEST PUTTING A SOLDER TAG OR PIECE OF WIRE BEHIND VOLTMETER SCREWS, AND ATTACH 12V SUPPLY OR BATTERY. USE 100ohm RESISTOR TO GROUND ON EACH GAUGE. FUEL GAUGE READS ABOUT 1/3 OF MAXIMUM. OIL PRESSURE READS ABOUT 1/2 MAXIMUM. WATER READS ABOUT 1/3 MAXIMUM.



REAR VIEW OF INSTRUMENT CLUSTER



<b>XJ-S INSTRUMENT CLUSTER</b>		NOT FACELIFT	
FILE:	SHEET: 1	REV: 1.0	12-Mar-2012
<b>RED PHASE INSTRUMENTS</b>			

