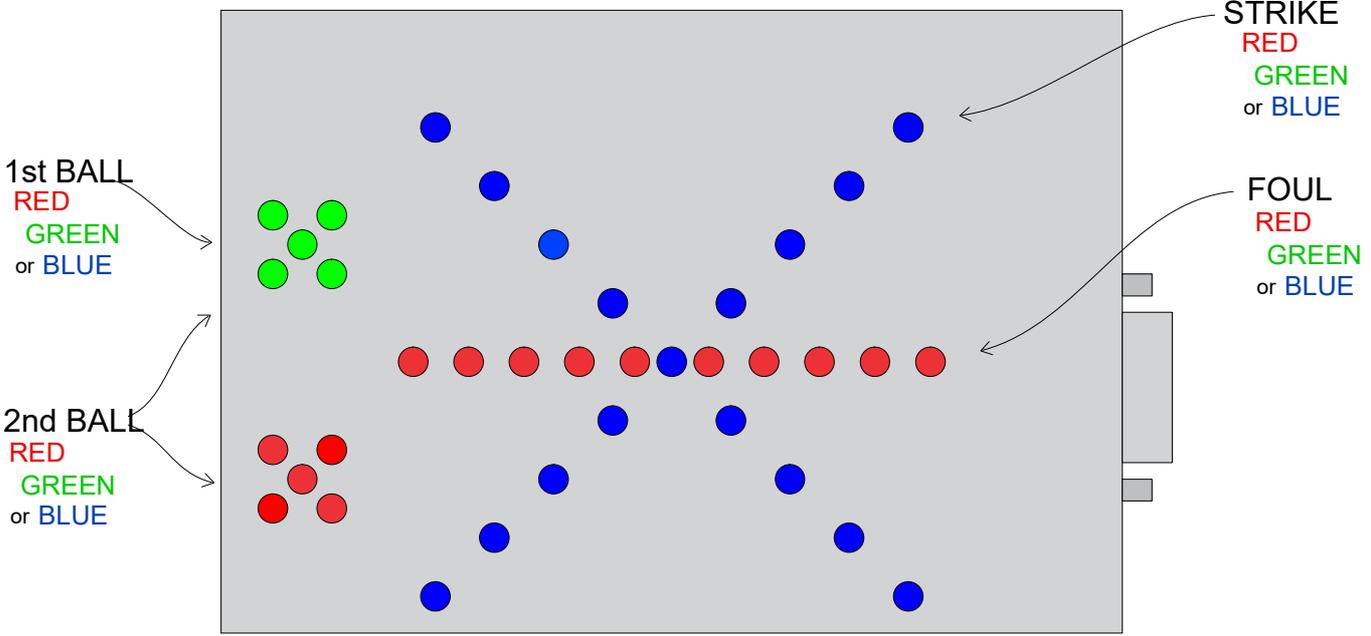


LED colours selectable
by jumpers on rear of board

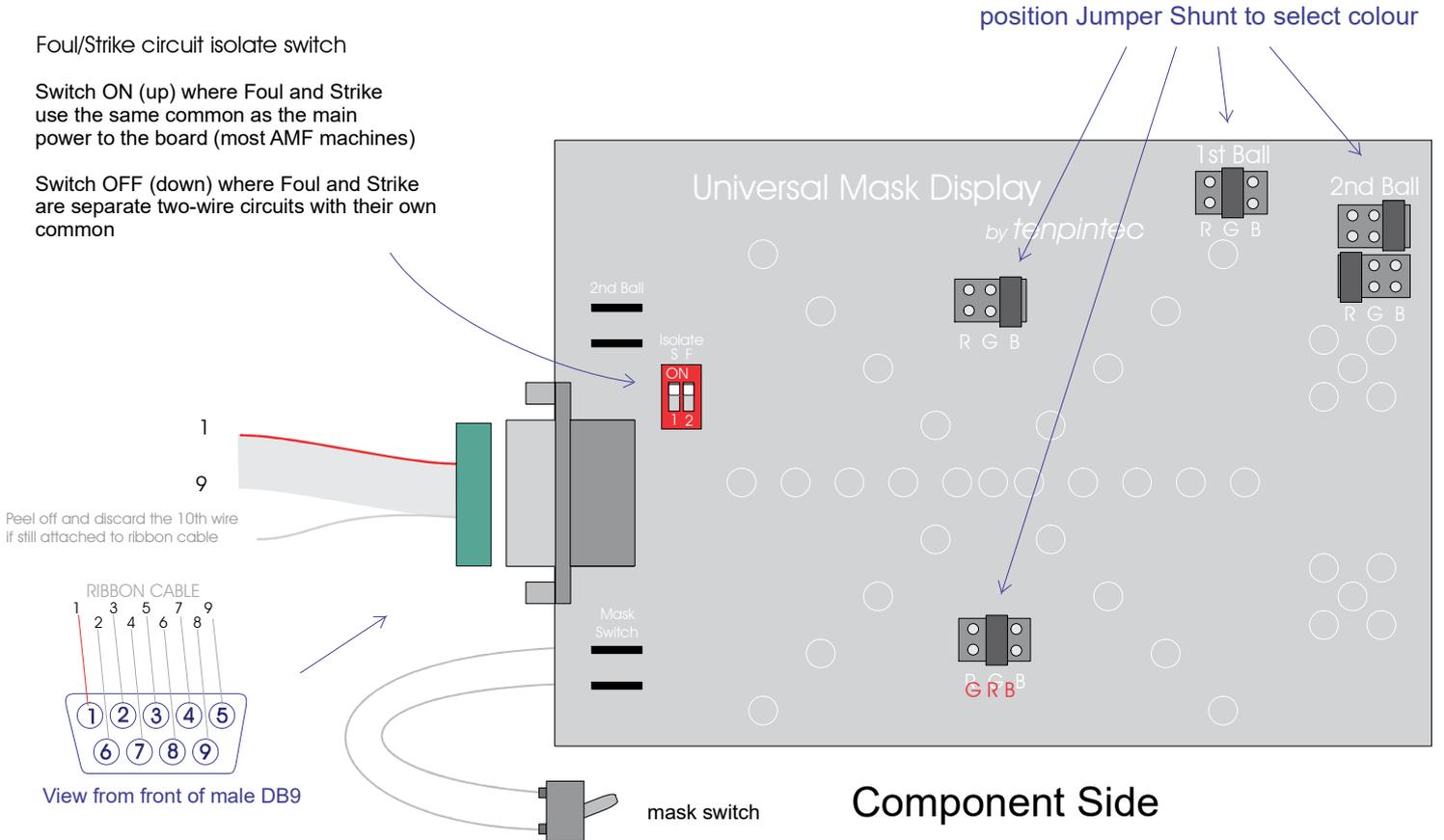


LED side

Foul/Strike circuit isolate switch

Switch ON (up) where Foul and Strike use the same common as the main power to the board (most AMF machines)

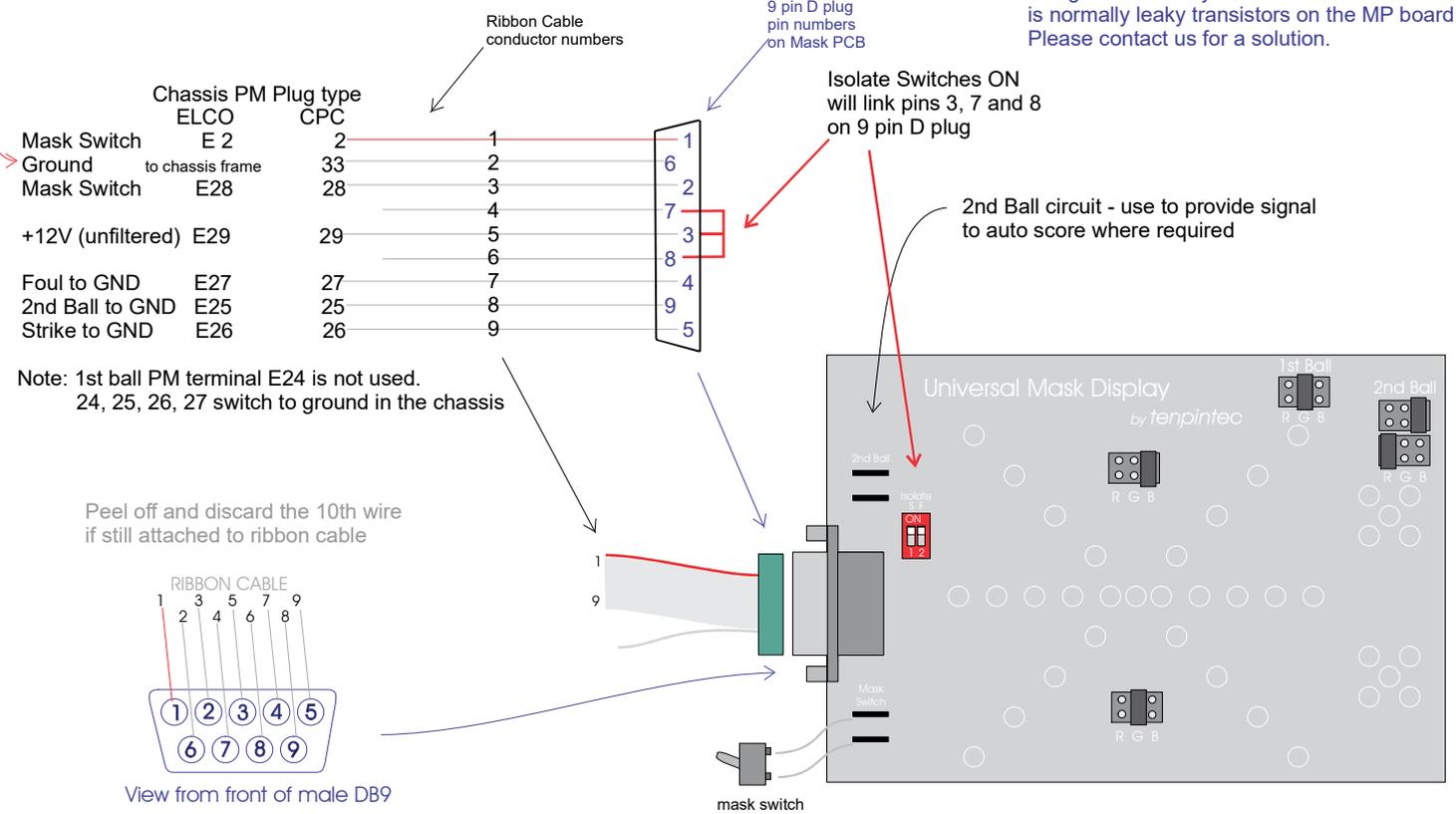
Switch OFF (down) where Foul and Strike are separate two-wire circuits with their own common



AMF 82-70

Very important - this wire must be connected to chassis ground. On CPC chassis, it may be possible to use a spare terminal for ground.

Please note that on some machines with MP chassis, a problem with the 2nd Ball LEDs being stuck on may occur. The cause of this is normally leaky transistors on the MP board. Please contact us for a solution.



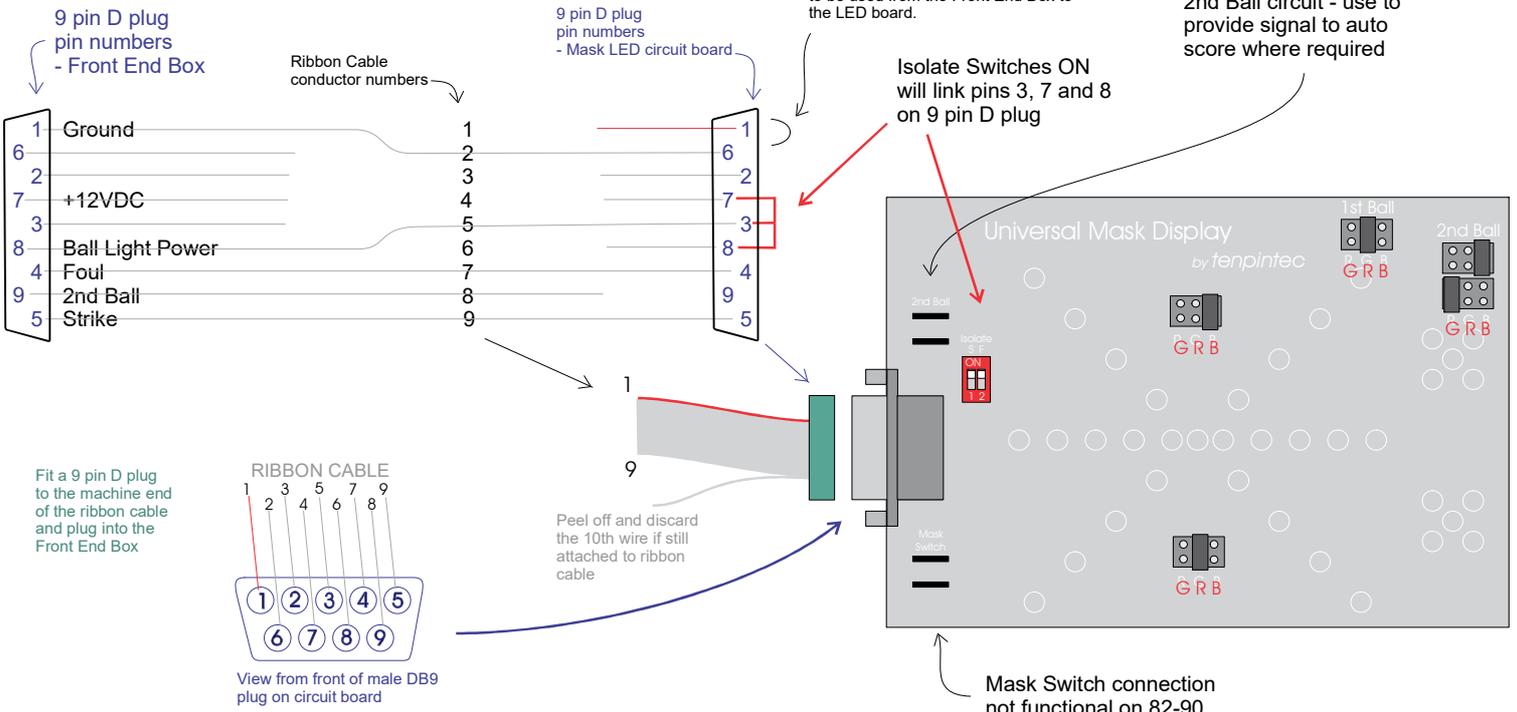
AMF 82-70XL and 82-90XL

FRONT END BOX

Note: This is not a straight-through connection from Front End Box to the Mask Board.
 Ground changes from Pin 1 to Pin 6
 Ball Light Power changes from Pin 8 to Pin 3 (if Isolate switch is off)

Pins 1 and 6 can be linked together on the back of the circuit board. This will allow a straight-through cable to be used from the Front End Box to the LED board.

2nd Ball circuit - use to provide signal to auto score where required

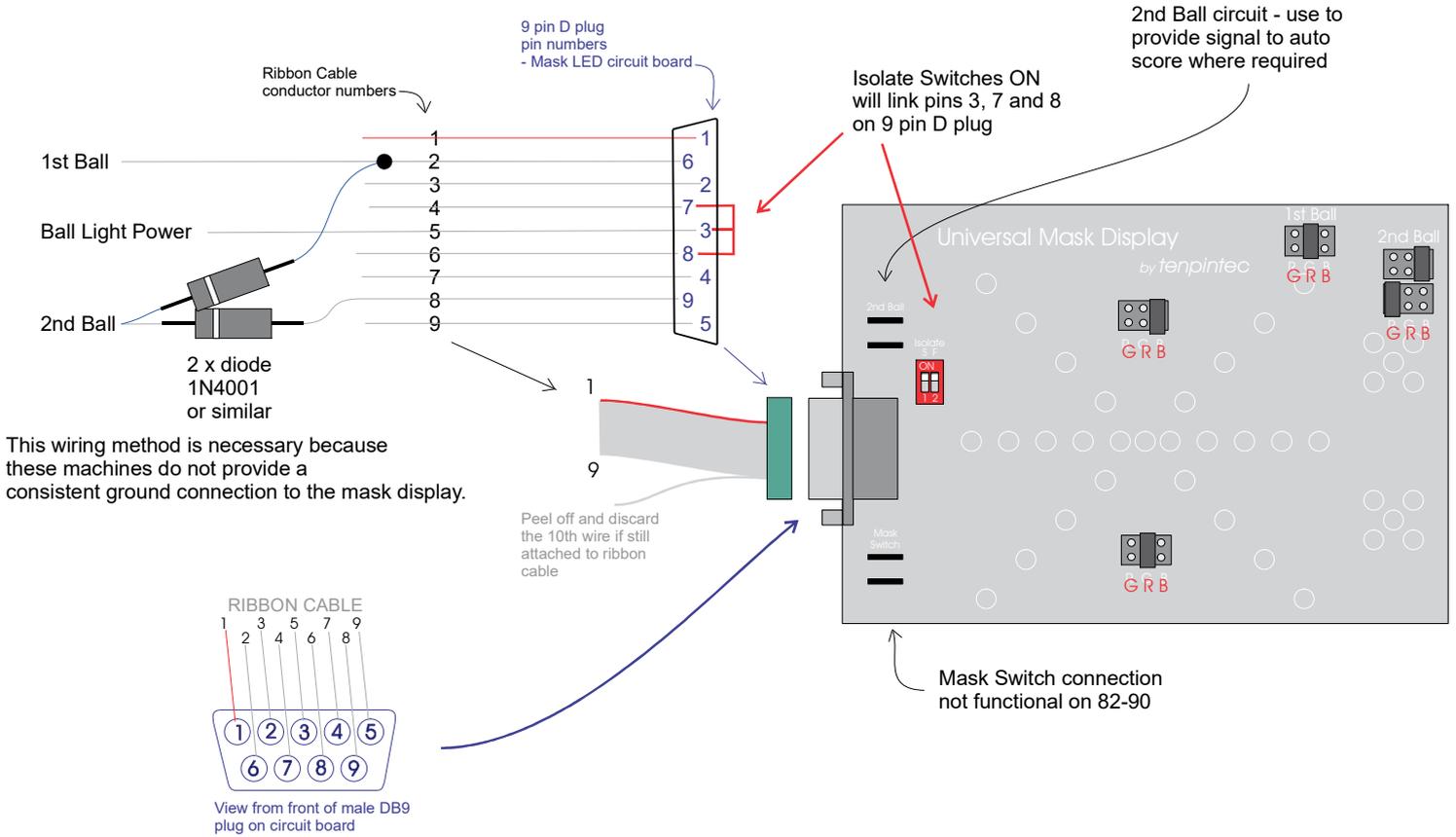


Mask-X RGB

Universal Mask Display Module - for all Pinspotters and Pinsetters



QubicaAMF TMS, QMS and Edge



Universal Mask Display Module - for all Pinspotters and Pinsetters

Brunswick A/A2

Independent source can be 6 - 35V AC or DC
ISOLATE SWITCH = OFF

2nd Ball circuit - use to provide signal to auto score where required

Machine (electrical box) connections

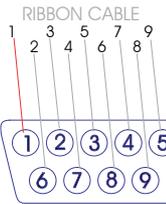
Mask Switch	1
Ground	TS2-1
Mask Switch	2
Strike +	3
12-36VAC or DC	TS2-4 or TS2-6
Foul +	4
Foul -	5
2nd Ball	6
Strike -	TS2-8
	7
	8
	9

Ribbon Cable conductor numbers

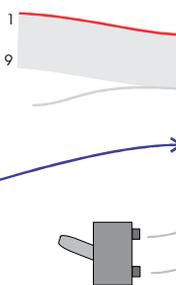
9 pin D plug pin numbers - Mask LED circuit board

Isolate Switches ON will link pins 3, 7 and 8 on 9 pin D plug if required
Switch S and F to OFF

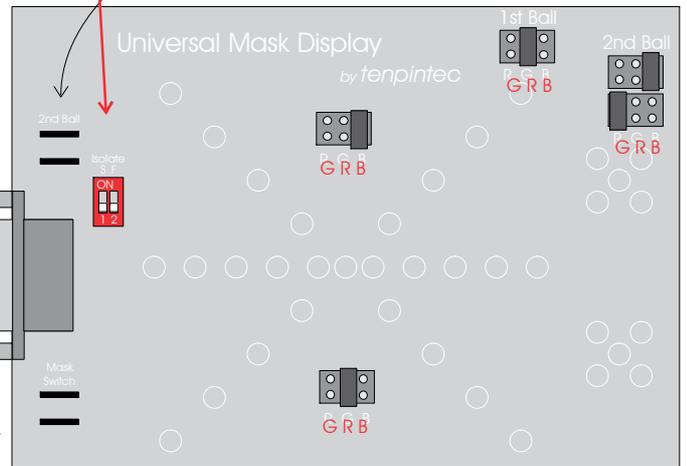
Peel off and discard the 10th wire if still attached to ribbon cable



View from front of male DB9



mask switch



Mask Switch connection not functional on 82-90

Brunswick GS

MASK UNIT CONNECTOR

Consolidated Electronics (9way) P4 (Left Lane) or P33 (Right Lane) connector

Nexgen (4way) P2 (Left Lane) or P22 (Right Lane) connector

P4/P33-3 ?	P2/P22-2	Ground	1
			2
			3
P4/P33-6 ?	P2/P22-1	Strike +	4
		Ball Light Power	5
		Foul +	6
P29-P4/P33-4		Foul -	7
P4/P33-1	P2/P22-3	2nd Ball	8
		Strike -	9

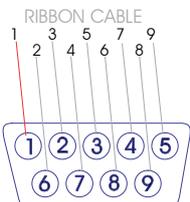
Ribbon Cable conductor numbers

9 pin D plug pin numbers - Mask LED circuit board

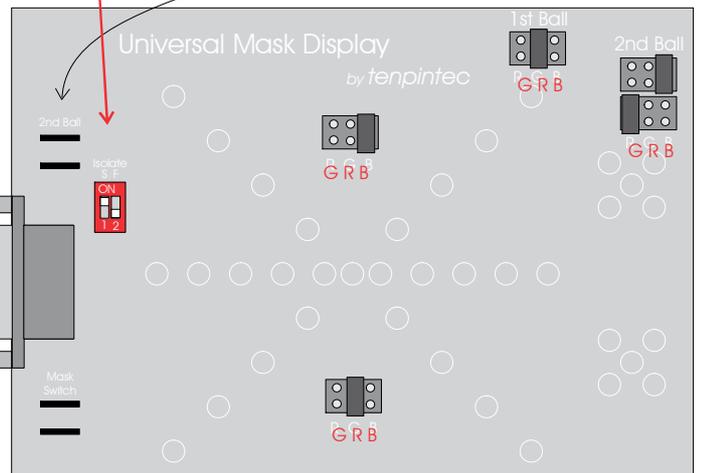
2nd Ball circuit - use to provide signal to auto score where required

Isolate Switches ON will link pins 3, 7 and 8 on 9 pin D plug if required
Switch F to OFF

Peel off and discard the 10th wire if still attached to ribbon cable



View from front of male DB9



Mask Switch connection not functional on 82-90