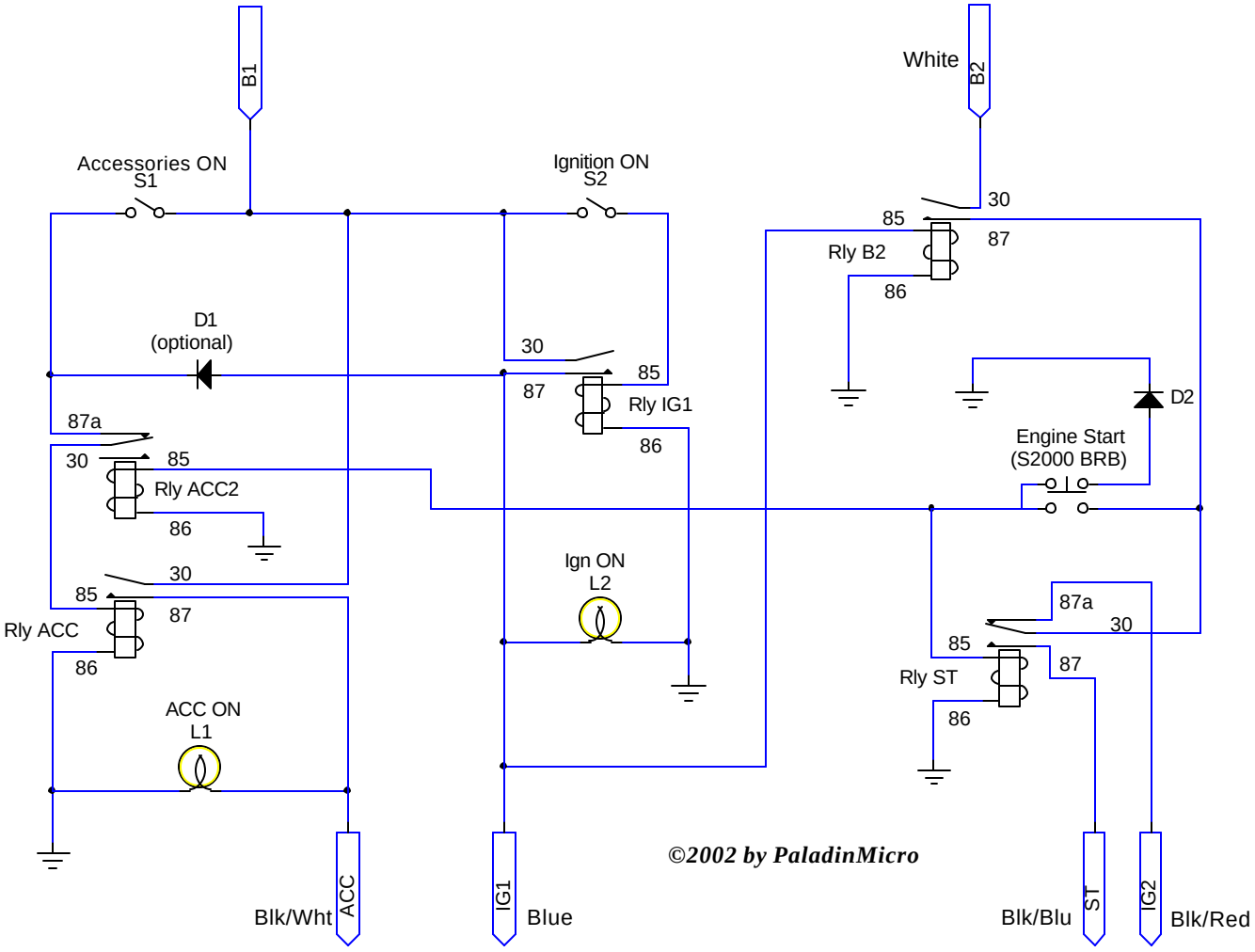
Mazda Miata '90 - '97 Ignition switch elimination circuit

(duplicates ALL ignition switch functions)

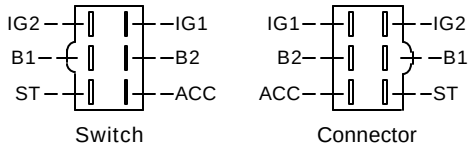
Operation:

1. Closing switch S1 energises relay Rly ACC, activating accessory circuits.
2. Closing switch S2 energises relay Rly IG1, activating ignition circuits,
   and energises relay Rly B2 activating Engine Start circuit.
   (also, if diode D1 is used energising Rly IG1 will energise Rly ACC "automagically")
3. Pressing switch S3, energises relay Rly ST, de-activating IG2 circuit and activating starter motor (circuit ST),
   and energises Rly ACC2, deativating accessory circuits while cranking the engine..



Rly IG1,
Rly ACC,
Rly B2 - NTE R51-1D70-12F or similar

Rly ST,
Rly ACC2 - NTE R51-5D40-12F



Indicated wire colours are for '90-'97 Miata ONLY

S1, S2 - Normally Open (NO) as desired

S3 - Normally Open (NO) Momentary as desired

D1 - 50V, 1A silicon diode (optional), energises Rly ACC when Rly IG1 is ON

D2 - This diode is integral within the S2000 BRB, it shunts reverse EMF to ground when the relay de-energises.

L1, L2 - pilot lamps as desired