

Sonex #1339 Electrical & Avionics

Item	Source	Location	Gnd To	Protection Upstream	Upstream connection	Terminal Type
Engine	Sonex	Duh	Batt	N/A	N/A	N/A
Alternator	Sonex	Engine	Engine	N/A	N/A	N/A
Voltage Regulator	Sonex	Firewall	Firewall	N/A	Alternator	0.25" Fast-On
Left Coil	Sonex	Firewall	Firewall	N/A	Switch - Coils	Screw (Ring-terminal)
Right Coil	Sonex	Firewall	Firewall	N/A	Switch - Coils	Screw (Ring-terminal)
Top Mag	Sonex	Engine	Engine	N/A	Switch - Mags	0.25" Fast-On
Bottom Mag	Sonex	Engine	Engine	N/A	Switch - Mags	0.25" Fast-On
Batt Contactor	B&C	Firewall	Gnd Blk	N/A	Switch - Master, Battery	Studs (Ring-terminals)
Starter (Solenoid / Contactor)	Sonex	Engine	Engine	N/A	Switch - Starter, Batt Contactor	1/4" Stud, 0.25" Fast-On
EarthX Battery ETX680C	EarthX	Battery Box	Firewall	N/A	N/A	Lugs/Large Ring-Terminals
EarthX Battery Box/Holder	EarthX	Firewall	N/A	N/A	N/A	N/A
Tenergy Portable Lithium battery charger	EarthX	Hangar/Baggage	N/A	N/A	N/A	N/A
MGL Discover Lite EFIS (panel)	Craggy Aero	Panel	Gnd Blk	5A MGL Fuse (Av Master)	Avionics Bus	D-Sub (DB-9)
MGL SP-6 Compass	Craggy Aero	Aft Fuselage	Gnd Blk	5A MGL Fuse (Av Master)	iEFIS	D-Sub (DB-9)
MGL RDAC XF MAP	Craggy Aero	Firewall	Engine/Firewall	5A MGL Fuse (Av Master)	iEFIS & Avionics Bus	D-Sub (DB-9)
MGL Magnetic Current Sensor	Aircraft Spruce	Firewall	Firewall	N/A	RDAC	Screw (Wire Ends)
CHT sensor (x4)	Sonex	Engine	Engine	N/A	RDAC	Screw (Wire Ends)
EGT sensor (x4)	MGL	Engine	Engine	N/A	RDAC	Screw (Wire Ends)
Oil temp sensor	Sonex	Engine	Engine	N/A	RDAC	0.25" Fast-On
Oil PSI sensor	MGL	Engine	Engine	N/A	RDAC	Screw (Ring-terminal)
Fuel level sensor	MGL	Fuel Tank	Gnd Blk	2A Fuse (Av Master)	RDAC & Avionics Bus	Screw (Ring-terminal)
FT-60 Fuel Flow Sensor	Aircraft Spruce	Fuel Tank	Gnd Blk	N/A	RDAC	Screw (Wire Ends)
MGL Infinity ASX-1	Craggy Aero	Panel	9V / Gnd Blk	N/A	Switch - ASX-1	D-Sub (DB-9)
9V Battery for ASX-1		N/A	N/A	N/A	Switch - ASX-1	Clip Pad
Battery Holder for ASX-1	Amazon	Behind Panel	N/A	N/A	N/A	N/A
MGL V6 Radio	Craggy Aero	Panel	Gnd Blk	5A Fuse (Av Master)	Avionics Bus	D-Sub (DB-25)
MGL V6 Harness	Craggy Aero	Panel	N/A	N/A	V6 Radio	N/A
Headset Jacks (x2)	B&C		Gnd Blk	N/A	V6 Radio	Solder
Microphone Jacks (x2)	B&C		Gnd Blk	N/A	V6 Radio	Solder
Music/Aux-in Jack for Radio	Aircraft Spruce	Panel	Gnd Blk	N/A	V6 Radio	Solder
BNC connectors for COM & XPNDR Coax (4)	Aircraft Spruce	Aft Fuselage	N/A	N/A	COM Coax	Crimp
Coax for COM Antenna (16 ft)	Aircraft Spruce	Aft Fuselage	N/A	N/A	V6 Radio	N/A
COM Antenna	Aircraft Spruce	Turtledeck	N/A	N/A	COM Coax	BNC
Trig TT22 Transponder w/Antenna and wiring	Craggy Aero	Panel	Gnd Blk	5A Trig Fuse (Av Master)	Avionics Bus	D-Sub (DB-25), BNC
Trig Transponder Head Unit	Craggy Aero	Panel	Gnd Blk	N/A	Avionics Bus	D-Sub (DB-9)
Stub Antenna for Transponder	Craggy Aero	Aft Fuselage	N/A	N/A	Transponder Coax	BNC
Coax for Transponder Antenna	Craggy Aero	Aft Fuselage	N/A	N/A	Transponder	N/A
Transponder Wiring Harness - Xpndr to Head	Craggy Aero	Aft Fuselage	N/A	N/A	Transponder	N/A
ARTEX 345 ELT	Craggy Aero	Aft Fuselage	N/A	N/A	N/A	D-Sub (DB-15), BNC
ELT Remote Switch	Craggy Aero	Panel	Gnd Blk	2A Fuse (Av Master)	ELT, Primary Bus	Molex (9 pin)
Aveo PowerBurst Plus wingtip lights - Left	Kestrel-Air	Wing	Gnd Blk	N/A	Switch - Nav & Strobe	Molex or Anderson PP
Aveo PowerBurst Plus wingtip lights - Right	Kestrel-Air	Wing	Gnd Blk	N/A	Switch - Nav & Strobe	Molex or Anderson PP
Duckworks Landing Light	Duckworks	Wing	Gnd Blk	N/A	Switch - Landing Light	Molex or Anderson PP

Aux power (cig lighter & USB charger)	Amazon	Panel	Gnd Blk	10A Fuse	Primary Bus	0.25" Fast-On
Under-Panel LEDs	Amazon	Panel	Gnd Blk	N/A	Switch/Dimmer - Cabin Light	Solder
Cabin light (batt or from USB/Cig Lighter)	Amazon	Aft Bulkhead	Gnd Blk	N/A	N/A	N/A
Grounding Block	B&C	Fwall (Cockpit side)	Firewall	N/A	Batt Gnd	#10-32 Stud, 0.25" Fast-Ons
Primary Bus (10-Fuse Block)	B&C	Behind Panel	N/A	N/A		#10-32 Stud, 0.25" Fast-Ons
Avionics Bus (8-Fuse Block)	B&C	Behind Panel	N/A	N/A		#10-32 Stud, 0.25" Fast-Ons
Capacitor for filtering / OV protection	B&C	Firewall	N/A	N/A	Alternator	Screw (Ring-terminal)
Alternator Relay	B&C	Firewall	Firewall	N/A	Switch - Alt, Filter Capacitor	0.25" Fast-On
Crowbar OV protector (for Alt/Reg)	B&C	Behind Panel	Gnd Blk	N/A	Switch - Alt, Alt Relay	Solder
Alternator Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	5A Fuse	Primary Bus	0.25" Fast-On
Switch for ASX-1 (DPDT) [PN 563-1873-ND]	DigiKey	Panel	N/A	2A Fuse (Av Master)	Avionics Bus	Solder
Master Switch*** [PN 1091-1026-ND]	DigiKey	Panel	Gnd Blk	25A CB	Gnd, Batt Contactor	0.25" Fast-On
Coils Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	10A Fuse	Primary Bus	0.25" Fast-On
Mags Switch (DPST)** [PN S700-2-2]	B&C	Panel	Gnd Blk	N/A	Gnd, Mags	0.25" Fast-On
Starter Pushbutton Switch [PN EG4726-ND]	DigiKey	Panel	N/A	10A Fuse	Primary Bus	Screw (Wire Ends)
Av Master Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	10A CB	Primary Bus	0.25" Fast-On
Nav/Pos Lights Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	10A Main Lighting CB	Primary Bus	0.25" Fast-On
Strobe Lights Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	10A Main Lighting CB	Primary Bus	0.25" Fast-On
Landing Light Switch [PN 1091-1026-ND]	DigiKey	Panel	N/A	10A Fuse	Primary Bus	0.25" Fast-On
Dimmer Switch for Under-Panel LEDs	Amazon	Panel	Gnd Blk	5A Fuse	Primary Bus	Solder
Connector for Wing wiring (x2)		Wing Roots	N/A	N/A	N/A	Crimp
Push-to-talk Switch for Pilot (on stick)	B&C	Control Stick	Gnd Blk	N/A	V6 Radio	Solder
Push-to-talk switch for Passenger (on panel)	B&C	Panel	Gnd Blk	N/A	V6 Radio	Solder

***Master Switch closes to ground the Master Contactor.

**Mags are on when circuit is open. Mags OFF when DPST switch closes circuit to GND.