

The Reference Design 1.0 University Kit is a comprehensive parts kit for our popular Reference Design 1.0 DRSSTC system. It includes all major electrical and mechanical components that is required for this kit including items difficult to DIY (do-it-yourself) or find. This kit was specifically design for universities, commercial use, as well as advanced amateurs.

The Reference Design 1.0 University Kit includes the following items:

Item	Description	QTY
Reference Design 1.0 Package	Complete schematics, plans, notes, and parts list	1
Power Distribution Board	Power distribution board kit with components	1
Universal DRSSTC Controller	Complete and tested universal controller module	1
Universal MIDI 1.0 Interrupter	Universal MIDI interrupter kit	1
Primary Capacitor Board	Primary capacitor board kit w/ components	1
IGBT	IGBT Module, 300A, 600V (new)	1
IGBT Gate Drive Board	Gate drive board kit w/ components	1
Gate Drive Transformer	Gate drive transformer kit	1
DC Bus Capacitors	High power, pulsed rated DC bus capacitors	2
High Current Laminated Busbar	Busbar kit w/ bleed resistors	1
Current Transformer Assembly	1000:1 current transformer assemblies - complete	2
Heatsink Assembly	Machined heatsink assembly w/ hardware	1
Toroid, Aluminum	18" x 4.5" toroid, aluminum, spun, seamless	1
Secondary Coil Assembly	Secondary coil assembly (epoxy coated w/ end caps)	1
Primary Coil Supports	Polycarbonate primary coil supports (machined)	8
Muffin Fan	Muffin Fan, 115VAC	2
Snubber, IGBT	Snubber for IGBT	1
Primary Shunt Capacitor	Primary shunt capacitor for half-bridge	1
Bridge Rectifier Module	Bridge rectifier module, 35A, 1000V	1
Fiber Optic Cable, 5M	Fiber optic cable, 5M	1
MIDI Cable, 3 FT	MIDI cable, 3 FT	1
Power Cord, 25 FT	Power Cord, 14/3, 25 FT	1
Power Plug	Power Plug, 115VAC, 3-Prong	1
Tuning Inductor	Tuning inductor module for universal controller	1

Components listed below are general construction components and are not supplied with this kit. These components are generally provided by the customer, although we can supply them at additional cost if necessary. Contact us for additional information.

(A/R = as required)

Item	Description	QTY
Base Assembly	Suitable base to mount electronics and primary and secondary coil.	1
Point-to-point wiring	Various wire to connect assemblies	A/R
Terminals	Various terminals for wires and cables	A/R



Ref Design 1.0 - Complete UniversityKit

Misc. hardware	Misc. hardware for construction	A/R
Copper tubing, 0.25" OD	Copper tubing for primary coil	A/R
Copper tubing, 0.375" OD	Copper tubing for primary strike rail	A/R

Note: Eastern Voltage Research reserves the right to add, subtract, and substitute any item as listed here in the Reference Design 1.0 DRSSTC Kit. It may do so at anytime and without notice. However, these additions, subtractions, and substitutions, will not alter the final functionality of the design.