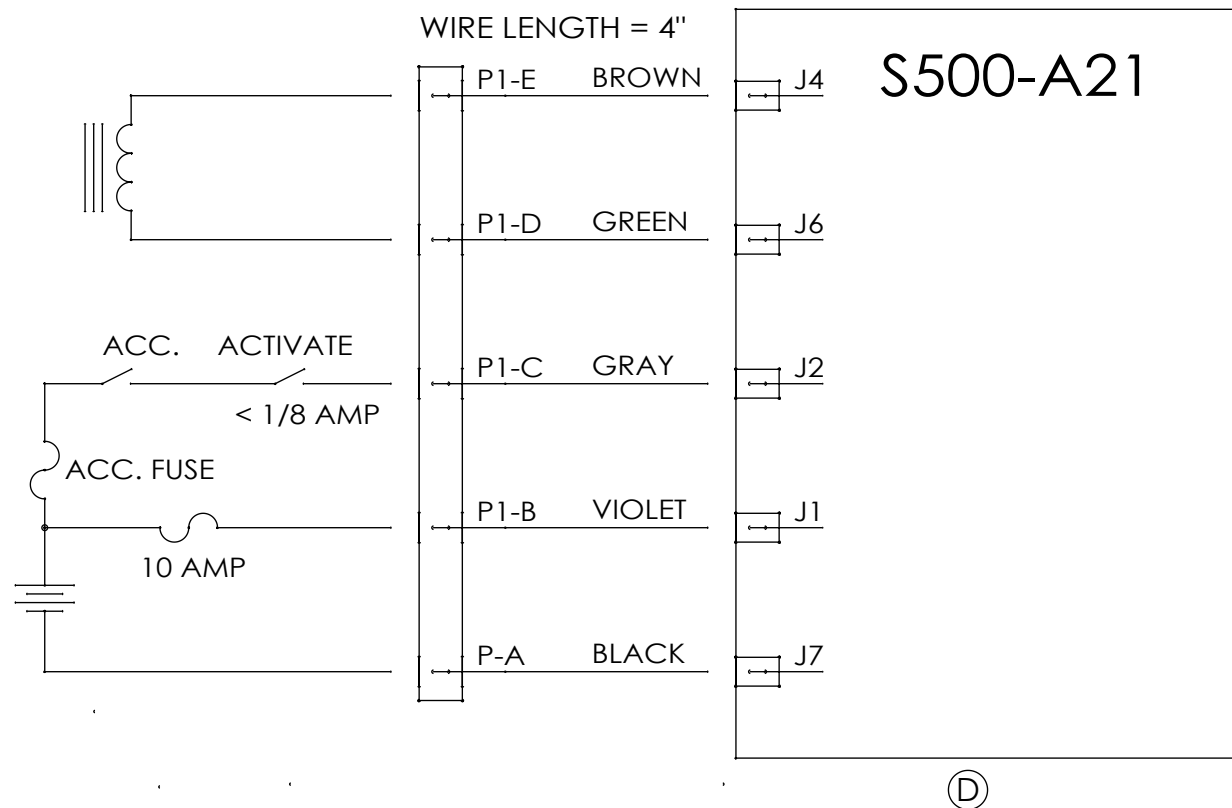


	8	7	6	5	4	3	2	1	
E	<p>SINUSOIDAL VIBRATION TESTING UNIT WILL MEET EITHER/OR OF THESE SPECS</p> <p>VIBE SPEC: TEST CONDITION 1 A LOGARITHMIC SWEEP FROM 10 Hz TO 2000 Hz TO 10 Hz IN A PERIOD OF 20 MINUTES SHALL BE PERFORMED FOR A MINIMUM OF 12 HOURS IN EACH OF THE 2 AXES (ONLY 2 BECAUSE THE SOLENOID IS AXI-SYMETRICAL).</p> <p>THE AMPLITUDE SHALL BE CONSTANT DISPLACEMENT OF 1.5 mm PEAK TO PEAK FROM 10 Hz TO 32 Hz AND AT A CONSTANT ACCELERATION OF 20.8 m/s² RMS (3g PEAK) FROM 32 Hz TO 2000 Hz.</p> <p>THE SOLENOID COILS ARE TO BE ENERGIZED HALF OF EACH TEST TIME.</p> <p>VIBE SPEC: TEST CONDITION 2</p> <p>TEST LEVEL: 196 m/s² (20 g) PEAK.</p> <p>LOGARITHMIC FREQUENCY SWEEP: 100-500 Hz TO AND FRO SWEEP IN 1 MINUTE EACH DIRECTION.</p> <p>TEST DURATION: 3 HOURS FOR EACH OF THE THREE AXIS FOR A TOTAL OF NINE HOURS.</p> <p>THE MODULES ARE UNPOWERED AND THEIR PLUG SHELLS ARE SECURED TO THE SHAKER TABLE WITH .75±.25 INCHES OF SLACK IN THE LEAD ASSEMBLY.</p> <p>PASSING CRITERIA: THREE MODULES PASS FUNCTIONAL AND SHOW NO EVIDENCE OF PHYSICAL DAMAGE AFTER VIBRATION.</p> <p>AMBIENT OPERATING TEMPERATURE: -40c TO +85c</p>				<p>MODULE SPECIFICATIONS: (D)(H)</p> <p>PIN 1-B TYPICAL PULL CURRENT: 10 AMPS @ 12 VOLTS (AFFECTED BY ACTUAL LOAD & WIRING)</p> <p>PIN 1-B TYPICAL HOLD CURRENT: 1.5 AMPS @ 12 VOLTS (AFFECTED BY ACTUAL LOAD & WIRING)</p> <p>PIN 1-B WILL DRAW LESS THAN 85uA (at 12 VOLTS) IF THERE IS NO ACTIVATION SIGNAL ON P1-C</p> <p>ACTIVATE SIGNAL CURRENT: 26mA NOMINAL @ 12 VOLTS</p> <p>MINIMUM VOLTAGE REQUIRED TO ENSURE OPERATION: 10 VOLTS</p> <p>MAXIMUM VOLTAGE UNIT IS ENSURED TO OPERATE AT: 16 VOLTS</p> <p>TRANSIENT PROTECTION: CAN HANDLE LOAD DUMPVOLTAGE UP TO 100 VOLTS.</p> <p>RATED NUMBER OF CYCLES: > 50,000 (E)</p> <p>ENVIRONMENTAL SEAL: IP66/IP67</p>				E
D					D				
C					C				
B					B				

CONNECTOR:
MOLEX CONNECTOR HOUSING: 33482-0601
MOLEX CONNECTOR PINS: 33000-0002
MOLEX CONNECTOR SEALS: 34345-0001

MATING CONNECTOR: (C)
MOLEX CONNECTOR HOUSING: 33472-0601
MOLEX CONNECTOR PINS: 33012-3001
MOLEX CONNECTOR SEALS: 34345-0001



OUTPUT SPECIFICATIONS: (D)

THIS MODULE IS A LOW-SIDE PWM DRIVER INTENDED FOR NOMINAL 12 VOLT VEHICLE APPLICATIONS DRIVING SOLENOID COIL RESISTANCES OF 1.4 OHMS OR GREATER SPECIFICALLY TROMBETTA P/N Q613-A20.

AS SOON AS THE ACTIVATE SIGNAL RISES ABOVE THE MINIMUM VOLTAGE REQUIRED TO ENSURE OPERATION, (H) THE SOLENOID WILL BE 100% DRIVEN FOR 1 SECOND, THEN WILL BE PWM DRIVEN AT 1.5 AMPS (TYPICAL) UNTIL THE ACTIVATE SIGNAL IS REMOVED.

MATERIAL							
FINISH		S500-A21 MODULE DIMENSIONAL ASSEMBLY					
UNLESS OTHERWISE SPECIFIED: BREAK ALL EDGES .005-.015 FILLETS R.010-.020 .XXX±.005 .XX±.01 ANGLES ±1° 125 FINISH NUMBER REVISIONS ARE PROTOTYPE		DRAWN	CAW	APP	JRH	DRAWING NUMBER	REV
(k) CONTROL PLAN REQUIRED	PROJECT	2262	DATE	01/10/12	SCALE	3:2	D04350 H