Test Case # 4: Wire Speed Test

Test Writers: Branden Driver								
Test Case Name:		Wire Speed Encoder Test #1				Test ID #:	3MP-Wire-01	
Description:		Measures the actual wire speed in				Туре:		
·		correlation with the wire speed						
		encoder. This test will allow for the						
		construction of the lookup table to be						
		used with the main program.						
Tester Information								
Name of Tester:					Date:			
Hardware Ver:		Display V1.0, Main Board V1.5, Sensor V1.0				Time:		
Setup:		Only Welder will be used, no	ove Cover of	welder to				
		ensure wire feed is properly set up. Welding will not be						
		so be sure ground wire is no		-		-	3 1	
Step	Action	Expected Result	Pass	Fail	N/A	Comments		
1	Open wire feed program	Program should open						
2	Set program to run for one	program should only run						
	second	for one second						
3	Cut wire extruded from	Very little wire should be						
	nozzle as short as possible	showing						
4	Set wire feed speed nozzle	Wire feed should be at						
	to home setting	lowest setting						
5	Turn on welder	Welder should turn on						
6	Run test program	Welder should feed wire						
		for exactly one second						
7	Turn off welder	Welder should turn off						
8	Cut wire extruded from	Very little wire should be						
	nozzle as short as possible	showing						
9	Measure length of cut wire	Value determined for						
	and record value	specified wire feed setting						
10	Repeat steps 1-9 for various	Determine if wire feed is						
	values of wire speed	linear. If so, interpolate						
		for all wire feed speeds	\perp					
Overall Test Result:								