

Track Circuit History Card – WB&S FS2500 Track Circuits



TRACK: _____

TRACK LENGTH _____ m

FREQUENCY _____ Hz

Tx OUTPUT LEVEL _____ % HI / LO

IMPEDANCE BOND TYPES _____

Date (DD/MM/YY)					
TX PSU (Serial No.)					
Date (DD/MM/YY)					
TX (Serial No.)					
Date (DD/MM/YY)					
RX PSU (Serial No.)					

Date (DD/MM/YY)					
RX (Serial No.)					
Date (DD/MM/YY)					
DPU (Serial No.)					
Date (DD/MM/YY)					
DPU Amp (Serial No.)					

Any additional information needed - (sketch of track / Location IDs, distances, equipment positioning, bonds, etc.)

DATE DD/MM/YY	Remarks / Service Schedule (SS01,SS02, SS03,SS04, etc.)	TRANSMITTER END			Resonated Impedance Bonds		DPU (For Tracks With Intermediate Receiver Only)		RECEIVER END							Fixed Shunt Test 0.15Ω (tick each test pt.) (✓)	Ballast Condition Good Moderate Poor Dry / Wet	Test Equipment Used (Type & Ser. No.)	Tested by: Name of Testing Officer (Print Name)		
		Location ID:			Loc. Tx Mid 1 Mid 2 Rx	Cap. (nF)	Cap. FSM (V)	Amp Gain (Hi / Lo)	Volts Measured at Loc. DPU terminals FSM (mV)	Location ID:			Monitor Volts							Rx Sen	Drop Shunt (Ω)
		PSU D.C. Supply DMM (V)	Tx Output Measured at Loc. track terminals FSM (V)	TU Volts Across T1/T2 FSM (V)						TU Volts Across T1/T2 FSM (V)	PSU D.C. Supply DMM (V)	Rx Input Measured at Loc. Track terminals FSM (V)	Unoccupied DMM (mV)	With shunt On DMM (mV)	Zero Feed DMM (mV)						
	First Full Recorded Test																				
	Last Full Recorded Test																				

RECEIVER SENSITIVITY ADJUSTMENT TABLE

SENS	CONNECT		BRIDGE	
	A to	B to		
1.65	-45	+5	+45 to -15	+15 to -5
1.60	-45	+15	+45 to -15	
1.55	-45	-5	+45 to -15	+15 to +5
1.50	-45	+5	+45 to -5	
1.45	-45	+45		
1.40	-45	-5	+45 to +5	
1.35	-45	+5	+45 to +15	-15 to -5
1.30	-45	-15	+45 to +15	
1.25	-45	-5	+45 to +15	-15 to +5
1.20	-15	+5	+15 to -5	
1.15	-15	+15		
1.10	-15	-5	+15 to +5	
1.05	-5	+5		
1.00	B			
0.95	+5	-5		
0.90	+15	+5	-15 to -5	
0.85	+15	-15		
0.80	+15	-5	-15 to +5	
0.75	+45	+5	-45 to -15	+15 to -5
0.70	+45	+15	-45 to -15	
0.65	+45	-5	-45 to -15	+15 to +5
0.60	+45	+5	-45 to -5	
0.55	+45	-45		
0.50	+45	-5	-45 to +5	
0.45	+45	+5	-45 to +15	-15 to -5
0.40	+45	-15	-45 to +15	
0.35	+45	-5	-45 to +15	-15 to +5

GUIDE TO Tx OUTPUT LEVEL ADJUSTMENT

Nominal Track Circuit Length	Tx Output Level	Output Number	Terminals Used *
50 - 250 m	20%	1 (LO)	1 and 2
250 - 450 m	40%	2	1 and 3
450 - 600 m	60%	3	3 and 4
600 - 750 m	80%	4	2 and 4
750 - 900 m	100%	5 (HI)	1 and 4

*The Screen Terminal is Earthed

FSM: Frequency Selective Meter/Track filter Adaptor
DMM: Digital Multimeter