

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
1-79	02-22-79	SP 20 Surge Protection	Surge Protection For AC Service
2-79	03-06-79	S & SM Gate Ratchet	Availability of new type overrunning clutch
3-79	04-02-79	Model C Track Wrench Lifting Bail	New Feature
3-79	07-31-79	Model C Track Wrench Lifting Bail	New Feature
4-79	05-11-79	Model 575 Drill	Extension Plug
5-79	09-28-79	Rail Whiz Saw	Carbide Faced Cutting Guide
6-79	09-28-79	Single Spindle Tie Borer	New Ball Bearing Head
7-79	11-16-79	Rail Whiz II	New Belt Tension Gage
1-80	03-21-80	Medium Range Track Circuit	Gain Adjustment Procedure
2-80	03-26-80	Model S Gate	Short Counterweight
3-80	04-02-80	Rail Whiz Saw	Abrasive Wheels
4-80	08-28-80 Rev 11-26-80	Splice Kit	Field Repairs For Fiberglas Gate Arms
5-80	11-17-80	S Gate Sector Gear Kit	Replacement Assembly
6-80	12-10-80	Morse Code (CW) Identifier	Communications
7-80	12-31-80	Self-Centering Device	Switch Circuit Controller Assembly
1-81	02-23-81	Aluminum Bracket Mast	Single/Double Mast Usage
2-81	04-16-81	GCP Model 300	Noise on ED Voltage (Limited Distribution)
3-81	08-07-81	Model 600 Motion Sensor/Grade Crossing Predictor	62659 Module Interchangeability
7-81	12-17-81	CXP-2 Continuous Power Supply	Signals
1-82	03-10-82	Communications Line Spike Filter, A47400	Communications
1-82A	03-12-82	Oil Pump, B080550-NX	Prolonging Life of Drill Bits Used on Power Bonding Drills U-50, 575-1
2-82	03-18-82	Fuel Mixing Procedure For Rail Whiz Saw	Use of Proper Container
3-82	04-01-82	MS/GCP 600	High Power Adjustment
4-82	01-03-83	Relay Drive Monitors	Models 500, 550, 525 MS; 600, 660 MS/GCP
2-83	04-22-83 Rev 08-30-83	New Style Case	SOTC, SRTC/MRTC, PSO II, SMTC XMTR Coupler
3-83	05-27-83	New Style Case	72170 S-Code System
4-83	12-05-83	Rail Whiz Abrasive Type Saw, Governor Module	Change in Part Number

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
1-84	01-05-84	SL-6 Grinder	Update Kits
2-84	05-01-84	Model S-Gate	Change in Grease Recommendation
3-84	06-04-84	Rail Whiz III	Maintenance of Way, Power Track Tools
4-84	07-17-84	SP-15 Surge Protection Network	Surge Protection for S-Code
1-85	01-31-85	New Standard Pneumatic Hammer For SD-80	Maintenance of Way, A-2
2-85	03-07-85	CLS-20/V-20	Field Installation of Alignment Sight Kit
3-85	07-03-85	CDRC-II	Operational Enhancements For Fast Code Systems
5-85	10-02-85	Vital Timer, 72210-1, -2	Relay Drive Circuit Applications
6-85	10-02-85 Rev 05-02-96	Models 300 And 400 GCPs And Models 300 And 350 Motion Sensors	Wraparound Circuit Application
7-85	01-07-86 Rev 07-28-88	Motion Sensor/GCP Models 62660/DAX, 62660ND, 62660ND2, And 62660ND2S	Increasing GCP Warning Time And Converting From GCP to Motion Sensor
8-85	02-10-86	Models 300 And 400 GCPs And Models 300 And 350 Motion Sensors	Replacement of Miniature Relays
1-86	07-23-86	CDRC-II Office Consoles	Use And Care Of Membrane Keyboard
2-86	10-14-86 Rev 11-24-86	Dual Motion Sensor, Model 62585	Transfer Control Module, 62584
3-86	10-14-86 Rev 11-24-86	Dual Motion Sensor/Grade Crossing Predictor, Model 62660ND2	Transfer Control Module, 62751
4-86	11-21-86	Model 400 Grade Crossing Predictor	Frequency Module, 8A412
5-86	11-18-86	Motion Sensor/Grade Crossing Predictor, Model 62660	Applications of Wrap Terminal
1-87	06-12-87	MS/GCP Models 62660/62660ND/- 62660ND2 And Motion Sensor Models 62585/62590	System Recovery Delay Time
1-88	01-14-88	M/W Work Equipment	Rebuilding And Repair
2-88	02-24-88	FR20-B-20 Rectifier	Circuit Breaker Revision
3-88	09-14-88	Solid-State Crossing Controller, 20-Ampere, 90980	System Operating Enhancements

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
1-89	04-11-89	Phase Shift Overlay (PSO) II and Short Modulated Track Circuit (SMTC)	Intermittent Operation
2-89	11-30-89	Solid-State Crossing Controller II, 90980A And 90990A	Excessive Gate Delay
2-91	05-06-91	High-Frequency Island Circuits	Provide Increased Shunting Sensitivity
3-91	05-06-91	3000 Grade Crossing Predictor Family	Application Guidelines Change Regarding Use of 62531-f/62631-f Couplers
4-91	05-06-91	3000 GCP Two-Track Installations With Active DAX	Immediate Field Change For DAX Pickup Delays
5-91	05-06-91	3000 Grade Crossing Predictor Family	Application Guidelines Change to Prevent DAX Nuisance Crossing Operation
6-91	05-06-91	3000 Grade Crossing Predictor Family	Minimum Approach Length Vs. Frequency
7-91	11-14-91	Data Recorder Module, 80015	Premature RAM Battery Failure
8-91	11-08-91	CDRC II DTMF And FSK Office (A41090) And Field (A47420) Equipment	Master Processor Module, A22350
1-92	03-24-92	S-Code Signal Control Unit, A72170, And Electric Switch Lock Release/Repeater Unit, A72180	Code 1 May Improperly Energize
2-92	04-15-92 Rev Rev 1-14-00	Models 500/525/550/585/590 Motion Sensors And 600/660/DAX/ND/ND2/ND2S MS/GCPs	Reduced Warning Time
3-92	06-08-92	New Solid-State Crossing Controller With Optional Temperature-Compensated Battery Charger	Provide TC Battery Charging System To Meet Customer Requirements
4-92	05-01-92	PMTC/METC Demodulator Module, 7A230, And Multiple Channel Demodulator Module, 7A260	Improper Energizing of Relay Drive Output
5-92	06-25-92 Rev 07-27-92	Model 3000 GCP Family	New "Setup For Linearization" Calibration Procedure For Improved DAX Warning Times
6-92	08-26-92	Model 600 MS/GCP	Possible Recovery From Motion When Operating With Tuned Insulated Joint Bypass Couplers
7-92	08-25-92	PSO II Transmitter, 7A400	Intermittent Transmitter Keying

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
8-92	09-29-92	Model 3000 GCP Family	Potential Application Hazard For Six-Wire Simulated Bidirectional Installations
9-92	12-18-92	Phase Shift Overlay (PSO II)	Application Diagram Error In Installation And Instruction Manual
1-93	02-12-93	Standard Coach Assembly, A47034-200	Mutes Words And Syllables During PA Announcements
2-93	02-25-93	Mini-Com Module, A20064	Microphone Replacement
3-93	7-14-93	S-20 Gate Mechanism	Hold-clear Adjustment
4-93	04-13-93	Motion Sensor/GCP Installations	Installation of Narrow-band Termination Shunts in Existing MS/GCP Approaches
5-93	05-05-93	Solid-State Vital AND-Gate, 90975	Battery Wiring To Cascaded AND-Gates
9-93	08-03-93	Solid-State Crossing Controller With Temperature Compensation, 91070(A) And 91075(A)	Possible Heat Damage To Regulator Module, 91074
1-94	01-13-94	All Model 3000 Family Grade Crossing Predictors (Except 3008 Series)	Second Generation ("E" Level) Software Release
2-94	03-04-94	Short Modulated Track Circuit (SMTC), 71010	Failure of SMTC Relay to Deenergize
3-94	03-04-94	Model 62660 Motion Sensor/Grade Crossing Predictor With DAX (Green Case)	Potential Improper Relay Drive
4-94	03-08-94	Motion Sensor/Grade Crossing Predictor Six Track Wire Applications	Multiple Track Wire Failure
5-94	04-15-94	Model S-20 Gate	Hold Clear Operation
6-94	04-26-94	Customer Service And Technical Bulletins	Master Indexes
7-94	08-15-94	PMTC/METC Demodulator Module, 7A230, And Multiple-Channel Demodulator Module, 7A260 (Long Island Railroad Applications Only)	Improper Energizing of Relay Drive Output
8-94	12-23-94 Rev 02-27-95	All Model 3000 Family Grade Crossing Predictors (Except 3008 Series)	"F" Level Software Release
9-94	09-19-94	Model S-20 Gear Train	Upper Gear/Pinion Teeth Hardness
1-95	06-22-95	Motion Sensor, 62585/62585S/62590	Elimination of Back Rings on Re-mote Units During Reverse Train Moves

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
2-95	07-05-95	Customer Service Bulletins	Master Indexes
1-96	05-13-96	All Model 3000 Family Grade Crossing Predictors	Instructions For Taking Track 1 or Track 2 Out of Service
2-96	4-22-96	Models 62775 And 62780 Narrow-band Termination Shunts And Model 62785-f Tunable Insulated Joint Bypass Coupler	Improved Manufacturing Process For Shunts
3-96	7-9-96	Models 500/550 Motion Sensors	Improper Warning Time
4-96	7-9-96	Model 300 Grade Crossing Predictors	Replacement Components For 8A312 Frequency Modules
5-96	7-30-96	Model 3000 Grade Crossing Predictors	Abnormal Fluctuations of EZ at Very Low Ballast Conditions
6-96	7-11-96	Model 3000 Grade Crossing Predictors	Possible Self-Check Error in Six-Wire Applications With "F" Level Software
7-96	7-25-96	Model 400 Grade Crossing Predictor	Potential Problem, Predictor Module, 8A416
8-96	7-30-96	Solid-State Crossing Controllers (SSCC), Models 90980, 90980A, 90990, 90990A, 91070, and 91075	Possible Capacitor Failures on 90983 Lamp Module and 90984 Logic Module
9-96	8-15-96	Customer Service Bulletins	Master Indexes
10-96	12-24-96	Model 3000 Grade Crossing Predictors	Expanded 3000 Application Guidelines Plus Modified Tuning Procedure For Tunable Insulated Joint Bypass Coupler, 62785-f
1-97	1-28-97	DTX Communications System Touch-Screen Monitors	Upgrade To Taxan Model EV580 Monitor
2-97	2-25-97	S ³ /Link Spread Spectrum Radio, A53301	Incorrect Serial Port And Echelon Port Termination Possibly Resulting In Intermittent Communications With External Devices
3-97	5-22-97	Model 585/590 Motion Sensor And Model 660 Motion Sensor/Grade Crossing Predictor	Improved Shunting Performance For Internal/Low Frequency Island Circuits
1-98	12-21-98	Model 3000 GCP Enhancements	n/a
2-98	2-18-98	Models 3000 and 62660 MS/GCPs when used with an external Transfer unit (80024 or 62740)	Application Wiring Changes
3-98	3-31-99	Sentry (91010) & Sentry Plus (91015) Data Recorders	Year 2000 Problem
4-98	12-23-98	HD/Link Module Software	Unintended Output State
5-98	3-31-99	Vital Timer Relay, ST 451000-X	Nuisance Operation, Short Timeout

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
1-99	1-25-99	Selenium Rectifier Used on Power Transfer Shelf Relays	Life Expectancy of Selenium Rectifiers
2-99	4-5-99	Data Recorder Module, 80015	Year 2000 Problem
3-99	4-5-99	Data Recorder Module, 80115	Year 2000 Problem
4-99	4-14-99	Spread Spectrum Radio Power Supply (9-36VDC)	DC/DC Converter Failure
5-99	4-26-99	DTX Communications Systems	Year 2000 Readiness
6-99	8-16-99	Universal Base Station Controller (UBSC)	Software Conversion
1-00	5-10-00	Poor Shunting Trains	Island Shunting Difficulties
2-00	10-18-00	Advanced Model 3000 GCP	New Software Enhancements for 80214 Processor and Compatibility for All 3000 Units In Service
3-00	3-31-00	Intelligent Processor Island (IPI) Module	Programmable Pickup Delay Time Software Enhancement
4-00	3-21-00	Use of cable Finders / Locators With Signal and Crossing Circuits	False Energizing of Signal and Crossing Circuits
5-00	4-4-00	Selenium Rectifiers Used on Power Transfer Plug-In Relays	Life Expectancy of Selenium Rectifiers
1-01	2-6-01	2000 Motion Sensor	New Software Enhancements for 80224 Processor
2-01	7-10-01	Universal Base Station Controller CUSTOMER SPECIFIC ONLY	Interface cable Field Modification Procedures
4-01	8-10-01	Vital Two-Input AND Gate Relay Driver, 90975	Possible improper operation due to open filter capacitors along with high battery charger spikes
5-01	6-25-01	Ratchet Wheel Assembly Part No. 073111-X	Binding Failures on the Ratchet Wheel Assembly
7-01	9-11-01	SSCC	Phase out of SSCC (91070 and 91075)
1-02	5-29-02	S40 Hold Clear Assemblies (074025-X, 074025-1X)	Loose Hold Clear Pawl 073102-2
2-02	12-02-02	Defroster Assembly, Part #070698-9X For Railway Highway Crossing Gate Models S, S-20, S-40 Customer Specific Notification	Cast Cover Interference
1-03	4-25-03	EM Motor Assembly 075100-X	Incorrect Installation of Spring Washer
2-03	7-17-03	Flasher Unit Assembly 400700-1X Customer Specific Notification	Improper operation of unit

**CUSTOMER SERVICE BULLETIN
NUMERICAL INDEX**

Bulletin No.	Issue Date	Subject	Concern
3-03	7-18-03	SL-8 Rail Grinders/Slotters 013075-X32, 013075-X33 Customer Specific Notification	Weak/Broken Engine Frame
4-03	1-08-04	Ratchet Highway Crossing Gate Model S-40	Improper Inner Clutch Assembly
1-04A	7-22-04	Connecting Recording Equipment, etc. to Test Points in Safetran Signal Products.	Improper Operation of Devices Safety/Mandatory
1-05A	9-16-05	Relay Drive Module, A80013	Use in applications driving higher- impedence inputs with lower detection thresholds (e.g. UAX & ENA inputs) Safety/Mandatory
1-06	1-5-06	S-20 Hold Clear Assemblies (073100-X)	Fractured Armature Bracket Stop Screw "C" Protrusion Safety/Mandatory
2-06	4-24-06	EM Gate Mechanisms (075000-series units)	Complete Assembly Discontinuation
3-06 B.01	Rev. 12-8-06 Amended 12-19-06	4000/3000 GCP 2000 MS Systems that share track wires with external track circuit equipment	Delayed or inability to detect open Transmitter Track Wire which may result in reduced or no approach warning time. Safety/Mandatory