**Number: I-196**

**Date: 1-03-96**

**Model: General**

**Subject: Master Bulletin Index 1986-1995**

Attached is a Master Industrial Bulletin Index for 1986 through 1995. Bulletins are organized by model number in chronological order. A Master Bulletin Index for Industrial Light Capacity products for the years 1960 through 1985 is available from METTLER TOLEDO Marketing Communications.

Service documentation, technical manuals and part catalogs can be ordered from METTLER TOLEDO Marketing Communications Department at:

 FAX: (614) 438-4783

Note: Older service bulletins may be superseded by newer service bulletins.

 **Model 150**

I-29-86 Connection to 8804 printer

I-33-86 Interconnect cable to 8140/8142

**Model 151**

I-05-86 Interface to 8806

**Model 280, 2086, 2186**

I-09-88 Switch cap removal

**Model 307**

I-33-87 Use with 8582 counting scale

I-07-86 Fuse holder change

**Model 510**

I-11-87 New date wheel available

**Model 951**

I-19-87 Steelyard rod adapters

**0964-0051 Data Acquision Accessory**

S-08-93 Compatibility Problem with Allen Bradley 1771-DB with A/E revision Software

**0964-0065 RS232 Converter**

Standard Cables for Quick Interfacing to an 8140,8142,8146,8505,8530,8582.

**Model 1996**

I-04-94 Technical Manual Supplemental Instructions for the intrinsic safe version

I-12-94 Load Cell Part Numbers for the Intrinsic safe models 1996, 1997, 2096, 2097, 2196, 2197, rams 0101 and 0102.

I-10-95 Bulletin on Intrinsic Safe Load Cells. Reminder/Reissue of I-12-94

**Model 1997**

I-32-93 Technical Manual Correction giving Correct Part Number for the 8510PM internal L/C Harness

I-04-94 Technical Manual Supplemental Instructions for the intrinsic safe version

I-12-94 Load Cell Part Numbers for the Intrinsic safe models 1996, 1997, 2096, 2097, 2196, 2197, rams 0101 and 0102.

I-10-95 Bulletin on Intrinsic Safe Load Cells. Reminder/Reissue of I-12-94

**Model 1365**

I-16-86 Auto clear tare function

I-17-87 Correction of weight lock feature

**Models 1938, 2038, 2138**

I-02-90 DLC CAL showing on display

I-16-90 Replacement load cell part numbers

I-07-93 Technical Manual Supplemental Instructions

**Model 2026, 2027, 2126, 2127**

I-22-86 Load cell assembly part numbers

I-26-87 Top cover adjustment

I-11-88 Top cover adjustment

**Model 2036, 2037**

I-23-86 Load cell assembly part numbers

I-26-87 Top cover adjustment

I-42-87 Changing calibration

I-11-88 Top cover adjustment

**Model 2096, 2196**

I-16-90 Replacement load cell part numbers

I-32-93 Technical Manual Correction giving Correct Part Number for the 8510PM internal L/C Harness

I-04-94 Technical Manual Supplemental Instructions for the intrinsic safe version

I-12-94 Load Cell Part Numbers for the Intrinsic safe models 1996, 1997, 2096, 2097, 2196, 2197, rams 0101 and 0102.

I-10-95 Bulletin on Intrinsic Safe Load Cells. Reminder/Reissue of I-12-94

**Model 2097,2197**

I-04-94 Technical Manual Supplemental Instructions for the intrinsic safe version

I-12-94 Load Cell Part Numbers for the Intrinsic safe models 1996, 1997, 2096, 2097, 2196, 2197, rams 0101 and 0102.

I-10-95 Bulletin on Intrinsic Safe Load Cells. Reminder/Reissue of I-12-94

**Model 2120**

I-29-93 New Brake Assembly Part Numbers

**Model 2136, 2137**

I-23-86 Load cell assembly part numbers

I-26-87 Top cover adjustment

I-42-87 Changing calibration

I-08-88 New size wheel used

I-11-88 Top cover adjustment

**Model 2156**

TMS90-052 Loadcell part number clarification

H-66-93 Ram Numbers and Corresponding Part Numbers

**Model 2157**

I-21-90 Load cell location, shift caution

I-26-93 E-9 Error Codes During Calibration

I-27-93 Correcting Lockup Problems During Calibration With 8520 & 8522 Ind.

**Model 2158**

H-64-93 Recommended Procedure for ins-talling a 2158 platform into its frame

**Model 2885**

H-67-93 Capacity Specifications (2000D)

**Model 3015**

SYS 03-92 Communications problems using 20mA current loop

S-01-93 Suppressing RF noise when used on 240VAC mains

**Models 3025, 3035, 3045, 3055, 8138**

I-27-87 Using the indicator

I-28-87 Zero drift

I-15-88 Indicator mode selection

I-18-88 Product change update

I-24-88 Correction to bulletin I-18-88

**Model 3026**

I-27-89 Units switching lb-oz, oz or gram units

I-04-90 Display PCB part numbers

I-05-90 Demand mode printing after a power loss

I-16-93 New Lens/Keyboard Gasket Part Number

I-09-94 New Shield Kit to enhance Protection against water damage.

I-14-94 New Technical Manual Available covering the14424600A Software

I-13-95 Drifting Weights in Applications where Temperature Changes are Prevelent/Water Ingress Protection

I-15-95 Bulletin Announcing the New Standard Rams and Showing the Mandatory Programming Selections for those Rams

I-25-95 Correction to Parts Information in the Technical Manual

**Model 3027**

I-09-94 New Shield Kit to enhance Protection against water damage.

I-11-94 New Software Changes and Description of Other Changes

**Model 3036**

I-38-93 Main PCB Part Number With the EPROM included and EPROM P/N alone

I-09-94 New Shield Kit to enhance Protection against water damage.

I-14-94 New Technical Manual Available covering the 14424600A Software

I-15-95 Bulletin Announcing the New Standard Rams and Showing the Mandatory Programming Selections for those Rams

I-25-95 Correction to Parts Information in the Technical Manual

**Model 3200, 3205**

I-07-86 Fuse holder change

I-08-86 New "D" rev power supply

**Model 4182**

I-08-88 New wheel size

**Models 7520, 7530**

I-35-86 Hinge plate spacers causing shift error

H-63-93 Hinge Plate and Pin Connection

**Model 7560**

TMS88-038 Anti-Rotation retrofit on DigiTOL cells

TMS88-042 End bumper adjustment procedure

 using washers with "U" shims

TMS88-043 Shim Retrofit

TMS88-044 Pit Power Supply termination resistor

TMS90-045 Wiring Diagram corrections to

 diagram #TC100340F

TMS90-047 Proper installation of Power Cells

TMS90-048 Resetting Angle Brackets and

 Bumper gaps

TMS90-049 Gap Cover K.O.P.

TMS90-050 Applying grease to connectors at

 installation

TMS91-053 Termination resistor requirement in

 latest revision Pit Power Supply

TMS91-054 Multi-Axle Scale Connecting Link

 Assembly failures

TMS91-055 Proper installation of the Black Boot

 on load cell cables

TMS91-056 Readdressing DigiTOL cells if cell

 address is lost

TMS91-057 Troubleshooting procedure for test-

 ing Pit Power Supply with E8 errors.

H-58-93 Load Cell Shimming

H-59-93 Hex Cell Receiver Conversion

H-65-93 Introduction of the New C-MOS Power Cell

H-01-94 Power Cell Adapter Cable for use with the Digital Load Cell Simulator

**Model 8130**

I-25-87 Gated power supply PCB part number

**Model 8132**

I-21-86 Under zero printing/baud rates

I-11-89 Shipping mating load cell connectors

**Model 8136**

I-05-91 New Main PCB

**Model 8138**

 Refer to Model 3025

I-09-95 New Manual for 8138 is now available

**Model 8139**

I-01-86 Load cell cable hook-up

I-04-86 Parts catalog changes

I-27-86 New keyboard assembly for NEMA 4X enclosure

**Model 8140**

I-01-86 Load cell cable hook-up

I-03-86 New printer pod

I-24-86 Input surge protector cable part numbers

I-25-86 Ground wire added to Nema 4X enclosure

I-26-86 New keyboard assembly for Nema 4X enclosure

I-33-86 Interconnect cable to 150

I-39-86 New version PCB

I-09-87 Sealing the Nema 4X enclosure

I-32-87 New Stainless enclosure latch

I-16-88 Continuous mode baud rate selection

I-22-88 Parts catalog not shipped with scale

I-33-88 1500 increment selection (non-LSI)

I-36-88 RFI enclosure changes

I-08-89 Keying the analog load cell connector

I-11-89 Shipping mating load cell connectors

I-20-89 E7 error codes

I-08-91 Indicator lockup with printer interface

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

**Model 8141**

SYS 08-88 Battery packs that won't charge

SYS 12-88 Installation requirements and a

 part number change for cables

SYS 17-89 Data entry retrofit

SYS 22-90 Adapter cable/software chart for

 when a battery has been replaced

SYS 25-90 intermittent ground causing changing indication

SYS 04-91 Instability when battery voltage

 drops below 11.1 volts

S-13-93 Capacity Limitations due to Math Overflow Problem

S-14-93 Enhancements and Corrections to the "G" revision Software

S-18-94 New Setup Parameter to Enable/Disable SLEEP Pushbutton.

**Model 8142**

I-09-86 Potting I/O connectors on wall units

I-11-86 Correction to bulletin I-105-85

I-24-86 Input surge protector cable part numbers

I-30-86 New ground wire in Nema 4X enclosure

I-33-86 Interconnect cable to 150

I-09-87 Sealing the Nema 4X enclosure

I-12-87 Recommendations for setpoint use

I-20-87 Removing harnesses under power

I-22-87 Recommendations for setpoint use

I-32-87 New Stainless enclosure latch

I-36-87 Main PCB tester for -XXX8, -XXX9

I-38-87 I02 technical manual corrections

I-39-87 Lockup due to host port programming

I-40-87 Tech manual change, hazardous areas

I-41-87 I01 technical manual addendum

I-43-87 New factory numbers

I-02-88 Tare interlock warning, (DDA versions)

I-06-88 Part Catalog, corrected Main PCB PN

I-07-88 Parts catalog not shipped with scale

I-17-88 8806 Printer printing constantly in continuous mode.

I-19-88 -XXX7, 8, & 9 setting step F5.10

I-21-88 Step F8.8, correction to tech manual I03

I-27-88 Analog/BCD power harness

I-28-88 Net sign correction F5.16

I-32-88 -XX7, 8, & 9 Resetting autoprint

I-03-89 New AC filter assembly

I-08-89 Keying the analog load cell connector

I-11-89 Shipping mating load cell connectors

SYS 13-89 Mandatory software upgrade in 9210 to interface to 8142

I-17-89 ASCII input with continuous data output

I-21-89 Reversed load cell plug on Main PCB

I-04-91 "C" Rev tech manual supplement

I-05-93 Technical Manual Supplemental Instructions

I-20-93 Incorrect Setpoint Operation With X2 Increment in P&G 8142 (Ram 2089)

I-21-93 "D" Revision Software Problems with Remote Print,Span Adjust

I-33-93 "E" Revision (L05) software corrects Span Adjust and Remote Print software bugs.

S-17-93 Output problems with 8142 Pre- [L05] Software when a tare is taken.

I-11-94 Part Numbers for the Wall Mount Terminal Strip Assembly.

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

**Model 8146**

SYS 02-87 Technical manual corrections to

 "TM008146 I00"

SYS 03-87 Caution not to handle or clean in-

 side of display lens

SYS 04-87 Clearing memory at installation

SYS 01-88 Missing parameters when printing

 setup parameters

SYS 03-88 Using the Sum Component fields to

 print individual weights

SYS 07-88 Programming flexible print formats

SYS 28-90 DigiTOL J-box pcb with 8146

SYS 06-91 Interface compatibility with 8806

SYS 07-91 Interface example to 8860 printer

SYS 08-91 Printing stored IDs

TMS91-057 Troubleshooting procedure for testing Pit Power Supply with E8 errors.

S-02-93 Master (Backdoor) passwords for 8146 based products

S-07-93 Erratic Operation of the Negative sign(-) in Continuous Data Output

S-09-93 "D" Revision 8146 Software will not work with the 8860 Printer

S-10-93 Normal Noise from Transformer in the Power Supply Assembly

S-08-94 Possible Solution for a Blank Weight Display

I-06-94 Programming for use with 5 1/2" Ticket Stock, P/N 083025 020.

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

**Model 8182, 8185**

I-29-86 Connection to 8804 printer

I-12-88 Printing totals with 8806

**Model 8186**

I-16-87 I02 tech manual addendum

I-35-93 Newer Style A/D PCB is not compatible with CPU PCB's with "F" revision or older Software

**Model 8213**

I-17-86 Tech manual correction

I-08-87 PCB and load cell replacement

I-13-87 Tech manual update

I-18-87 New CMOS digital load cell

I-35-87 Overload Stop Settings

I-06-95 Change of Ram 93657AA to a Standard Ram 0046

**Model 8505**

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

**Model 8510PM**

I-04-90 Display PBC part numbers

I-05-90 Demand mode printing after a power loss

I-22-90 Entering setup with an "E8" error on the display

I-25-90 Power supply voltages, correction to technical manual

I-05-92 E40 error when the Analog Output is installed

I-04-93 "G" revision software lockup problem

I-10-93 Technical Manual Addendum

I-13-93 Release of new "L10" revision software

I-15-93 Technical Manual corrections to the "Error Code Corrective Measures" section of TMPM8510 I01

I-16-93 New Lens/Keyboard Gasket Part Number

I-22-93 Quick Procedure for clearing E-40 and calibrating the Analog Output Option

I-28-93 Using Correct Harness to Avoid Analog Option from not Giving Full Output Signal

I-13-94 How to prevent [E E E] on the display at power up in tank scale applications.

**Model 8510SS**

I-22-89 Ferrite ring included with indicator

I-04-90 Display PBC part numbers

I-05-90 Demand mode printing after a power loss

I-13-90 Entering capacity during calibration

I-20-90 Load cell interconnect

I-11-93 Adding Capacitor for Weight Display Instability

I-16-93 New Lens/Keyboard Gasket Part Number and correction to Technical Manual TMSS8510 I02

I-09-94 New Shield Kit to enhance Protection against water damage.

I-13-94 How to prevent [E E E] on the display at power up in tank scale applications.

**Model 8511**

I-13-94 How to prevent [E E E] on the display at power up in tank scale applications.

I-23-95 Correct Part Numbers for the Printer Cable

**Model 8520**

I-14-89 Sealing screws

I-26-89 Analog load cell connections

I-08-90 Ferrite ring included with indicator

I-17-90 Replacing Main logic PCB's

I-09-91 Battery Charger Draining Battery

I-01-93 Technical Manual corrections to serial output section.

I-27-93 Correcting Lockup Problems During Calibration With the 2157 Base

I-39-93 Net Sign Correction Selection Added to [L09] Level Software

**Model 8522**

I-27-93 Correcting Lockup Problems During Calibration With the 2157 Base

I-07-94 New Technical Manual,TM 008522 I01, is now available.

**Model 8525**

I-39-93 Net Sign Correction Selection Added to [L09] Level Software

I-07-94 New Technical Manual,TM 008525 I01, is now available.

**Model 8530**

I-05-87 Relocating the tractor drives

I-31-88 Enabling manual shift adjust

I-04-89 Technical manual correction

I-05-89 Shipped configured for multiple DLC

I-06-89 Step 04, addressing power cells

I-13-89 E8 errors assigning digital cell addresses

I-15-89 Using JN port, 20 ma current loop with ASCII remote input

I-19-89 Multiple cell calibration procedure

I-23-89 Lithium battery part number

I-24-89 New setup step 87, supersedes I-15-89

I-25-89 E8 errors after the scale has been installed

I-10-90 Internal load cell harness

I-11-90 Tare weight memory full

I-12-90 "H" revision software to correct "E10" error codes and stored zero tare weight

I-14-90 Revised setup steps for "F" revision or newer software

I-17-90 Replacing Main logic PCB'S

I-02-91 Correcting intermittent load cell errors

I-03-91 Connecting a printer and remote display

I-11-91 "E8" errors caused by connecting document printer

TMS91-057 Troubleshooting procedure for testing Pit Power Supply with E8 errors.

I-03-92 "H" Rev software correcting L/C errors

I-06-92 Eliminating intermittent "E8" error

 codes

I-06-93 Vehicle Scale Software Supplemental Instructions

I-12-93 Recommended use of 20 mA when interfacing to an 8843

I-03-94 Correcting the three conditions that can cause Memory Loss of stored tare, accumulated data, print formats in the VS ram 0005

S-05-94 Problems when Updating 9215 and 9215 Data Manager when Interfaced to 8530 With High Precision Interface.

I-06-94 Using the Escape Command and Tear Off Bar For use with the 5 1/2" Tickets, P/N 083025 020

H-01-94 Power Cell Adapter Cable for use with the Digital Load Cell Simulator

H-02-94 Recording Calibration Constants, Raw counts, and Setup

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

I-08-95 New Regulator PCB CMOS Power Cells

**Model 8571**

I-10-88 Technical manual update

I-35-88 Keyboard assembly replacement

I-12-89 Adjusting overload stops on the internal load cell

I-19-90 Important precaution during calibration

I-24-90 Clearing "E3" errors, addition to bulletin I- 19-90

I-05-94 Recommended Test Load Equal to 3/4 Capacity Prevent E8 Error Codes

**Model 8572**

I-17-90 Replacing Main logic PCB'S

I-06-91 Order dependent prompts, setup step 96

I-07-91 "E34" error code

I-05-94 Recommended Test Load Equal to 3/4 Capacity for Optimum Operation

**Model 8580**

I-32-87 New stainless steel enclosure latch

I-42-87 Changing calibration

**Model 8581**

I-15-86 Parts catalog correction

I-19-86 Operation function override

I-20-86 Tech manual correction

I-02-87 RS-232 Output KOP (0901-0231)

I-07-87 Battery KOP Installation precaution

I-08-87 Replacing PCB's or load cell

I-14-87 Battery replacement

I-15-87 New CMOS digital load cell

I-23-87 New 5 lb capacity

I-29-87 Tech manual correction

I-37-87 Digital load cell replacement

I-14-88 Solution to kg gross weight printout

I-23-88 Digital load cell replacement

I-29-88 Battery KOP fuse size

I-30-88 RAM expander PCB

I-35-88 Keyboard assembly replacement

I-12-89 Adjusting overload stops on the internal load cell

I-18-89 Technical manual addendum for "F" version program

I-06-90 Digital® load cell part numbers

I-09-90 Error in technical manual TM008581-I04

I-17-90 Replacing Main logic PCB'S

I-02-93 RS232 Data Output Option Is incompatible with the Battery Pack Option

I-05-94 Recommended Test Load Equal to 3/4 Capacity for Optimum Operation

**Model 8582**

I-30-87 Keying remote load cell connectors

I-33-87 Using with 307 printer

I-03-88 Pushbutton zeroing

I-04-88 Clearing accumulator totals

I-05-88 Adding the expanded memory PCB

I-07-88 Part catalog not shipped with product

I-20-88 Not recognizing scale 2

I-25-88 Display lock-up at power up using I02

I-26-88 Choosing analog scale builds

I-34-88 External RAM check errors/losing setup

I-35-88 Keyboard assembly replacement

I-07-89 Technical manual update for "E" revision software

I-09-89 Choosing the correct capacity and initial deadload

I-12-89 Adjusting overload stops on the internal load cell

I-28-89 Ensuring a fully charged battery on the Logic PCB

I-07-90 New keyboard assembly for high usage applications

I-23-90 New software for use with 2157 Digital® floor scale

I-10-91 Lockup during remote base calibration

I-04-92 Using the APW Tolerance Check

I-17-93 KBD/DSP Error code on power up

I-05-94 Recommended Test Load Equal to 3/4 Capacity for Optimum Operation

I-05-95 Standard Cable for Quick Interface to the 0964-0065 RS232 Converter

**Model 8614**

SYS 06-88 Software to correct printing with

 motion and adds Masstron data

 input

SYS 24-90 Various Technical Manual corrections

**Model 8616**

SYS 06-88 Software to correct printing with

 motion and adds Masstron data input

SYS 24-90 Various Technical Manual corrections

SYS 15-89 Interfacing to an 8530 indicator

**Model 8617**

S-11-93 Restrictions for mounting Scoreboard at an Angle to not more than 10 °

**Model 8619**

SYS 15-89 Interfacing to an 8530 indicator

SYS 24-90 Various Technical Manual corrections

**Model 8622**

I-37-86 Technical manual update

**Model 8804**

I-29-86 Connection to 150, 8182, 8185

I-04-87 Additional print module parts

I-06-87 Ticket stop removal

I-24-87 Checksum programming

I-34-87 Print module harness part numbers

**Model 8806**

I-06-86 Interface to 151

I-12-86 20 mA test plug change

I-13-86 "F" rev Logic PCB software changes

I-14-86 Continuous cycle, no line feed

I-36-86 Keypad schematic

I-04-87 Additional print module parts

I-10-87 Intermediate version standardized

I-17-88 Constant printing

I-37-88 New print head assembly & ink cartridge

I-02-89 Legal-for-trade Softswitch 115 added.

I-02-92 Printing from 8530-0005 VS software

SYS 06-91 Interface compatibility with 8146

I-21-93 "D" Revision 8142 Software Problems with Remote Print

I-33-93 8142 "L05" software corrects inability to remote print introduced in the "L04" software.

**Model 8806 Continued**

I-08-94 Intermediate Version Locking up if Checksum is enabled at 4800 Baud

**Model 8843**

I-11-91 8530 "E8" errors caused by connecting document printer

I-12-93 Recommended use of 20 mA when interfaced to an 8530

**Model 8844**

I-25-93 New Product Introduction

I-31-93 Compressed Print Limitations

I-34-93 Jumper Selection for choosing RS232 or 20mA current Loop

I-36-93 Procedure for setting Programmable Configurations

I-37-93 Correct Print Ribbon Part Number

I-06-94 Using the Escape Command in the 8530 and the 8844 Tear Off Bar For use with the 5 1/2" Tickets, P/N 083025 020

I-16-94 Slanted Print on every other Character due to Parity being set Incorrectly

**Model 8845**

I-14-94 New Installation Guide(Tech Manual) Now Available

I-16-94 Slanted Print on every other Character due to Parity being set Incorrectly

**Model 8855**

I-03-87 Additional print module parts

**Model 8856**

I-09-93 New Product Introduction

I-18-93 Correct 20 mA Loop Wiring

I-19-93 Paper Sensor Clip falling out in shipment in earlier units.

I-24-93 2 And 3 Ply Paper Roll part numbers

**Model 8860**

I-21-87 Label taken sensor test

I-10-89 Addendum to technical manual TM008860 I01

SYS 07-91 Interfacing example to the 8146

 Indicator

I-07-94 New Technical Manual,TM PC8860 I02, is now available.

**Model 8861**

I-16-95 Intermittent E7 Error Code with the 141870 00A PCB

I-20-95 New RS232 Only Cable for 8861 Interfacing

I-26-95 Possible Changes that can be Made if the Flashing of New Software is Unsuccessful

**Model 8865**

I-30-93 Sentinel Key required when saving Information from the MTLABEL Program

**Model 9118**

SYS 18-89 Air cylinder malfunctions

SYS 01-91 Air cylinder replacement kit of

 parts

**Model 9126**

SYS 18-89 Air cylinder malfunctions

SYS 01-91 Air cylinder replacement kit of

 parts

**Model 9128**

SYS 18-89 Air cylinder malfunctions

SYS 01-91 Air cylinder replacement kit of

 parts

**Model 9150**

SYS 02-91 Precautions using DS I/O PCB and

 remote lockup

**Model 9182**

S-05-93 Programming Selections When Using the 9510 Bar Code Reader

**Model 9210**

I-18-86 Host port changes

I-31-86 Tech manual corrections

SYS 13-89 Mandatory software upgrade when used with a model 8142 indicator

**Model 9215**

SYS 08-92 Memory loss during power interrupt

 or restart

S-12-93 Decimal Point Location Causing "INIT" Error when Replacing Indicator and loosing Formulas

S-05-94 Problems when Updating 9215 and 9215 Data Manager when Interfaced to 8530 With High Precision Interface. (Version 4.0)

S-09-94 Possible Host Lockups when creating Ladder Rungs

**Model 9323**

SYS 06-92 Differences between the 9322 BCD Module and the 9323 BCD module

S-17-93 Output problems with 8142 Pre- [L05] Software when a tare is taken.

S-01-94 Calibration hintsModel 9324

SYS 05-92 Installation precautions concerning

 the amount of graduations**Model 9325**

S-17-93 Output problems with 8142 Pre- [L05] Software when a tare is taken.

**Model 9360**

SYS 23-90 Field modified program archival

 procedures

S-07-94 XON/XOFF Protocall now works with "B" Revision Software

**Model 9410**

S-06-93 .6 Amp Power Supply in the 9480 and 9481 giving "Scale Fault" Error

**Model 9471**

I-02-86 Bubble memory precautions

I-06-86 Print corrections

I-28-86 Conveyor belt tension and tracking

SYS 01-87 Three new keypad assemblies

SYS 09-88 Software changes for Roadway SYS

**Model 9475**

I-32-86 Keyboard change

SYS 04-88 Update to TM009475 I00

**Model 9476**

S-06-94 Incorrect Assembly of Jackbolts

**Model 9480**

S-06-93 .6 Amp Power Supply giving "Scale Fault" Error With 9410 J-Box

**Model 9481**

S-06-93 .6 Amp Power Supply giving "Scale Fault" Error With 9410 J-Box

**Model 9510**

SYS 02-88 Accessing the scale setup and

 calibration procedure

SYS 11-88 Software to correct under zero printing

S-05-93 Programming Selections When Used With the 9182 Coin Counter

**Model 9542**

S-15-93 Compatibility Problems with MS-DOS Version 6.0

**Data Mgr. Software**

S-05-94 Problems when Updating 9215 and 9215 Data Manager when Interfaced to 8530 With High Precision Interface. (Version 4.0)

**DT Series**

I-07-95 Correction to the Serial Interface Information in the Technical Manual

I-12-95 List of new Error Codes

**General**

I-10-86 Handbook 44 Class labels

I-31-87 New tension "S" type load cells

I-13-88 Remove power before connecting harnesses

TMS88-036 Male pipe thread fitting on Blind Hole Shear Beam Cells in TMS units

TMS88-038 Anti-Rotation retrofit DigiTOL loadcells

I-01-89 1988 service bulletin index

I-16-89 Modified UPECO cutoff pcb for use with new style photo-detector

SYS 14-89 Warranty repair on Practical Autom- ation printer (MZ0303000080)

SYS 16-89 Part numbers for paper roll and

 print ribbon for 3-TM12 printer

SYS 19-89 Serial data analysis on your PC

I-15-90 Updated Support telephone numbers

SYS 23-90 Field modified program archival

 procedures

SYS 28-90 DigiTOL J-box pcb with 8146

TMS90-046 Load Cell shipping and handling

 precautions to avoid damage

SYS 05-91 Temporary systems technical support

SYS 09-91 Temporary systems technical support

TMS91-055 Proper installation of black boot

 on load cell cables

I-01-92 Master Bulletin Index: 1986 to 1991

I-03-93 Formula for calculating load resistor for the analog load cell simulator

I-08-93 Master Bulletin Index: 1986 to 1992

I-14-93 Tips on how to handle Electro-Static Discharge

I-23-93 New Digi-Probe Multimeter Tool

H-61-93 45K (350 OHM) Conversion Chart

H-62-93 45K (2000 Ohm) Conversion Chart

I-01-94 Master Bulletin Index: 1986 to 1993

I-02-94 Bulletin Index for 1993 Light Capacity Products only**General (continued)**

H-01-94 Power Cell Adapter Cable for use with the Digital Load Cell Simulator

I-01-95 Master Bulletin Index: 1986 to 1994

I-02-95 Bulletin Index for 1994Light Capacity Products only

**Jaguar**

I-14-94 The new Service Manual is now Available

I-15-94 Part Number Correction to listing of Analog PCB in Manual

I-17-94 New 5 Volt Battery Part Number.

I-03-95 Release of new “C” Revision Software

I-11-95 Rounding Problem on all units prior to Revision “C.1”

I-14-95 Release of new “D” Revision Software

I-17-95 Blind units resetting to factory defaults prior to Revision “D.1”

I-18-95 Bulletin Reminding the field that they must upgrade the Analog PCB to an “A” Revision Chip when Installing “C” Revision Software or newer.

**Jaguar Continued**

I-19-95 Displaying Diagnostics on the lower display when pressing the (SP) Space Key

I-24-95 Correct Procedure for returning Warranty and Non-Warranty Parts

I-27-95 Service Manual Corrections for Enhanced Digital J-Box Wiring

**Liftmate/Deckmate**

TMS85-0015 Proper torque on load cell nuts

TMS85-0018 Grounding to eliminate instability

TMS86-0025 Instability and drift caused by poor

 solder joints on J-box pcb

TMS86-0026 Achieving a moisture tight seal on

 all TMS j-boxes

TMS88-0035 Yellow sense wire erroneously

 connected as shield

**LYNX**

I-22-95 Lynx Introductory Bulletin

**M5000**

SYS 05-88 Correct A/D assemblies for HAP

SYS 03-91 Damage caused by plugging P-12

 in backwards

S-03-93 Tips for testing the Host Communication

**M8141**

 See "8141"

**Model MD3015**

SYS 27-90 OPTO-22's turning on at power up

**Model MP750**

SYS 26-90 False lockup condition

**Roadway**

RPS-01-95 9410 High Speed Junction Box Parameters & Jumper Settings

RPS-02-95 Two Line Display Key Station - Self Test

RPS-03-95 Model 8213 Bench Scale Setup

RPS-04-95 Model 8132 Digital Indicator Setup

RPS-05-95 PSC2281 & 420 Gun Setup For EZ Barcode Reader & Scanstars

RPS-06-95 Scanstar 100 Setup

RPS-07-95 Model 8140 Digital Indicator Setup

RPS-08-95 Model XX38 Digital Indicator Setup

RPS-09-95 Erratic Key Station Display

RPS-10-95 Key Station Beeper Remains On

RPS-11-95 Key Station - Direct Key Testing

RPS-12-95 Hard Drive Replacement

RPS-13-95 Ethernet Interface PCB Replacement

RPS-14-95 Key Station (SWAK) Part Numbers

RPS-15-95 Key Station (II / III Upgrade to IV) Part Numbers

RPS-16-95 Key Station (SAK) Part Numbers

RPS-17-95 SWAK Controller Part Numbers

RPS-18-95 SWAK Expander Enclosure Part Numbers

RPS-19-95 SWAK Misc. Cable Part Numbers

RPS-20-95 Key Station Key Cap Part Numbers

**Model SM100**

SYS 21-90 Retrofit instructions for DPU PCB

S-04-93 Special Modified Software to eliminate invalid numbers in the Material Usage Report

**Model SM200**

SYS 02-92 Lockup condition when entering setup, rate or fill parameters

S-16-93 Enhanced PCB for Applications with Heavy Vibration or Small Microvolt Builds

**Tech Tips**

TMS85-0012 Replacing Load Cells in a Truckmate CD

TMS85-0013 Re-cabling charge on cells with cut cables

TMS85-0014 Load cell testing procedure (W)

TMS85-0020 Wiring change to tension cells

TMS86-0023 CAUTION when using heavy duty

 test truck rams on Truckmate II

TMS86-0025 Instability and drift caused by poor

 solder joints on J-box pcb

TMS86-0026 Achieving a moisture tight seal on

 all TMS j-boxes

TMS86-0028 Remove protective tape from load

 cells

TMS,Oct'88 Proper lifting of the Truckmate

 Modules

TMS88-035 Yellow sense wire erroneously

 connected as shield

**TrimWeigh**

I-21-95 TrimWeigh Introductory Bulletin

**Truckmate I & II**

TMS86-0023 CAUTION when using heavy duty

 test truck rams on Truckmate II

TMS85-0024 Spacer plate part number when replacing cell with new style ML cells

TMS86-0025 Instability and drift caused by poor

 solder joints on J-box pcb

TMS88-040 Instability when using TMS 6 conductor cable with 8146(or any

 other gated supply)

H-60-93 35 K Capacity Conversion Chart

**TSM PRODUCTS**

S-02-93 Master (Backdoor) Passwords for 8146 based products

**Model VT220**

SYS 10-88 CRT replacement procedure