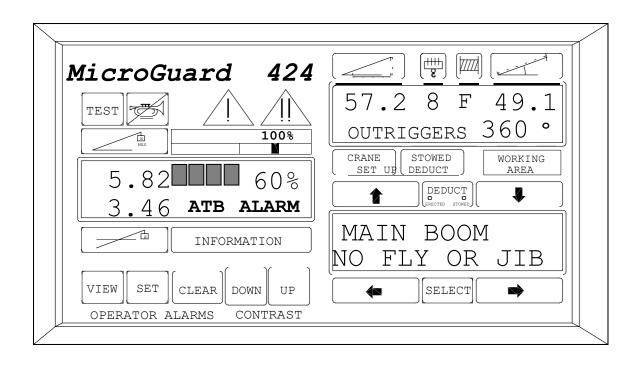


MicroGuard[®] 424

INSTALLATION DATA

For Upgrades from MG- 3 & RLI-200 and Retrofits to unfitted machines





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TABLE OF CONTENTS

MicroGuard[®] 424 System

| SYSTEM COMPONENTS | 5 |
|--|------|
| SYSTEM REMOVAL AND INSTALLATION | 6 |
| UPGRADING OLDER GREER SYSTEMS | 6 |
| EXTENSION REEL | 6 |
| ANTI TWO-BLOCK CIRCUIT | 6 |
| DISPLAY | 7 |
| COMPUTER | 7 |
| PRESSURE TRANSDUCERS | 7 |
| EXTENSION REEL CABLE TO COMPUTER | 7 |
| ANGLE SENSOR | 8 |
| BULKHEAD CONNECTOR | 8 |
| A047013 CABLE | 8 |
| PROCEDURE FOR CONNECTING CABLE SHIELDS | 9 |
| SYSTEM COMPUTER | . 10 |
| CABLE SCHEDULE | . 11 |
| CABLE 1 PISTON PRESSURE TRANSDUCER | . 11 |
| CABLE 2 ROD PRESSURE TRANSDUCER | . 11 |
| CABLE 3 BOOM EXTENSION, BOOM ANGLE AND ANTI TWO-BLOCK SIGNAL | . 11 |
| LINK-BELT WIRING ON MG-3 SYSTEMS | . 12 |
| CABLE 6 SWING SWITCH INPUTS | . 13 |
| CABLE 7 DISPLAY | . 13 |
| CABLE 8 POWER AND FUNCTION KICKOUT | . 14 |
| SYSTEM BYPASS SWITCH | . 14 |
| ATB BOARD CONNECTIONS | . 14 |
| MEASUREMENTS CRITICAL TO CALIBRATION | . 15 |
| MICROGUARD [®] 424 APPLICATION DATA SHEET TELESCOPIC CRANES | . 16 |
| SWING DATA | . 17 |
| BOOM HOIST DATA | . 18 |
| WINCH DATA | . 19 |
| DEAD END BECKET DATA | . 20 |
| MAIN BOOM DATA | . 20 |
| ATTACHMENT DATA | -25 |

| APPENDICES | | |
|----------------|------------------------------------|----|
| APPENDIX A | EXTENSION REEL LAYOUT | |
| APPENDIX B | BULK HEAD CONNECTOR SCHEMATIC | 27 |
| APPENDIX C | REEL TO COMPUTER CABLE ASSEMBLY | |
| APPENDIX D | BULK HEAD CONNECTOR | |
| APPENDIX E | DISPLAY TO COMPUTER CABLE ASSEMBLY | |
| APPENDIX F | EXTENSION REELMOUNTING (HYDRAULIC) | |
| APPENDIX G | BOOM HEAD ANTI TWO-BLOCK SWITCH | |
| RETROFIT CALIB | RATION REPORT | |

Warning

Improper installation of program and duty chips will damage them. The correct way to install these chips is to align the notch on the socket and the notch on the chip at the same end. This must be done with the power to the system "OFF."

SYSTEM COMPONENTS

| ITEM | DESCRIPTION | PART NUMBER | QUANTITY |
|------|---|-------------------|----------|
| 1 | DISPLAY, HORIZONTAL | A444111 | 1 |
| 2 | COMPUTER, GLANDED | A440103 | 1 |
| 3 | EXTENSION REEL, INCL. EXTENSION AND BOOM ANGLE SENSORS | A240160 | 1 |
| 4 | PRESSURE TRANSDUCERS | A200000 | 2 |
| 5 | MAIN A2B SWITCH | A250006 | 1 |
| 6 | JIB/AUX HEAD A2B SWITCH | A250019 | AS REQ. |
| 7 | CHAIN AND WEIGHT | A251000 | AS REQ. |
| 8 | SWING SWITCH AND ARM | K035012 | 1 |
| 9 | HYDRAULIC CUT OUT VALVES, 40 GPM | P070000 (12 VOLT) | AS REQ. |
| 10 | HYDRAULIC CUT OUT VALVES, 40 GPM | P070000 (24 VOLT) | AS REQ. |
| 11 | HYDRAULIC CUT OUT VALVES, 70 GPM | P070001 (12 VOLT) | AS REQ. |
| 12 | HYDRAULIC CUT OUT VALVES, 70 GPM | P070001 (24 VOLT) | AS REQ. |
| 13 | EYEBOLT KIT FOR EXTENSION REEL CABLE | K056003 | 1 |
| 14 | CABLE, EXTENSION REEL | AO47013 | 1 |
| 15 | CABLE, DISPLAY | AO47062 | 1 |
| 16 | CABLE, 20 AWG, SWING CABLE | P045051 | 20FT |
| 17 | CABLE, 16 AWG, POWER AND FKO | P045052 | 20FT |
| 18 | CABLE, JIB A2B, LENGTH AS REQUIRED | A048000+LENGTH | AS REQ. |

FOR RETROFIT SYSTEMS WHICH DO NOT REQUIRE A NEW EXTENSION REEL, A NEW BOOM ANGLE SENSOR AND CABLE WILL BE NECESSARY. DELETE ITEM 3 FROM THE PRECEDING LIST AND ADD ITEMS 19 & 27 FROM THE FOLLOWING LIST.

| 19 | BOOM ANGLE SENSOR | A220220 | 1 |
|----|--------------------|---------|---|
| 20 | BULKHEAD CONNECTOR | S047250 | 1 |
| 21 | RING TERMINALS | P050753 | 6 |
| 22 | P- CLAMP | P040376 | 1 |
| 23 | CABLE CLAMP | P050311 | 2 |
| 24 | #4-40 X ½" SCREW | P050084 | 1 |
| 25 | ¼" X 20 NUT | P050219 | 2 |
| 26 | ¼" WASHER | P050214 | 2 |
| 27 | IN - LINE FUSE | P037106 | 1 |

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SYSTEM REMOVAL AND INSTALLATION

UPGRADING OLDER GREER SYSTEMS (LA-1250, LAR-1200, BA-1500, & LOHD-1100) EXTENSION REEL

- 1. REMOVE THE COVER ON THE EXISTING EXTENSION REEL.
- 2. CLAMP THE CABLE FROM THE SENSOR TO THE TRIANGLE PLATE USING CABLE CLAMPS. ENSURE THAT THE CABLE FROM THE ANGLE SENSOR DOES NOT INTERFERE WITH THE EXTENSION REEL CABLE OR WITH THE EXTENSION REEL ITSELF.

ANTI TWO-BLOCK CIRCUIT

For MicroGuard[®] 424 System installations, the anti Two-Block circuit must be isolated. Two terminal strips require this modification. One strip is located on the triangle plate and the other is on the extension reel.

TO ISOLATE THE CIRCUIT:

- 1. STARTING WITH THE TRIANGLE PLATE TERMINAL STRIP, MOVE THE TOP BROWN WIRE TO TERMINAL#5 AND THE TOP BLACK WIRE FROM THE MOUNTING SCREWS TO TERMINAL#6.
- 2. ON THE SPOOL TERMINAL BLOCK, REMOVE THE 2 CENTER SCREWS. REPLACE THEM WITH THE #4-40X¹/₄" SCREWS AND SECURE THE WIRES TO THE TERMINAL ACCORDING TO APPENDIX A.

NOTE: USE A CABLE CLAMP AND ONE OF THE EXISTING SCREWS ON THE EXTENSION REEL COVER TO HOLD THE EXCESS CABLE. THIS WILL PREVENT THE CABLE FROM GETTING CAUGHT ON THE REEL.



DISPLAY

Mount the display in the cab where it can be easily observed without obstructing the view through the cab window. Position the display cable so that it will not hinder the normal operation of the levers and controls of the crane.

COMPUTER

Mount the computer inside or outside of the cab with the cable glands facing down. Ensure that there is enough cable line from the other sensors. **Note**: The cable to the pressure transducers **cannot be increased** by splicing in additional cable.

PRESSURE TRANSDUCERS

Do not remove the existing transducers in the hydraulic system unless a failure occurs. If the transducers are confirmed to have failed, then replace them accordingly. On upgrades from the RLI-200, it will be necessary to remove the connectors from the computer end of the cable. Do this, but cut the cable as close to the connector as possible. This will give you as much cable length as possible.

EXTENSION REEL CABLE TO COMPUTER

Connect the cable to the extension reel. Route the cable to avoid cable damage, i.e., cutting or pinching during the normal movement of the boom.

When upgrading the existing extension reel with a new angle sensor and connector, use the following table for wiring at the extension reel terminal block. Use Appendices A-D for reference. Use Cable A047013 from extension reel to computer.

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ANGLE SENSOR

See Appendix A for installing the Angle Sensor to existing extension reel. Route the cable to the terminal block, clamping the cable along the top of the triangle plate. Use ¹/₄ -20 nuts to mount the angle sensor to the existing studs in the extension reel.

BULKHEAD CONNECTOR

Appendix D illustrates the supplied bulkhead connector to replace the existing connector. It also has terminal connections. Use in conjunction with the table shown above. Appendix B shows how the Extension and Angle sensor as well as the Anti Two Block signal is connected to the terminal block with the bulkhead connector.

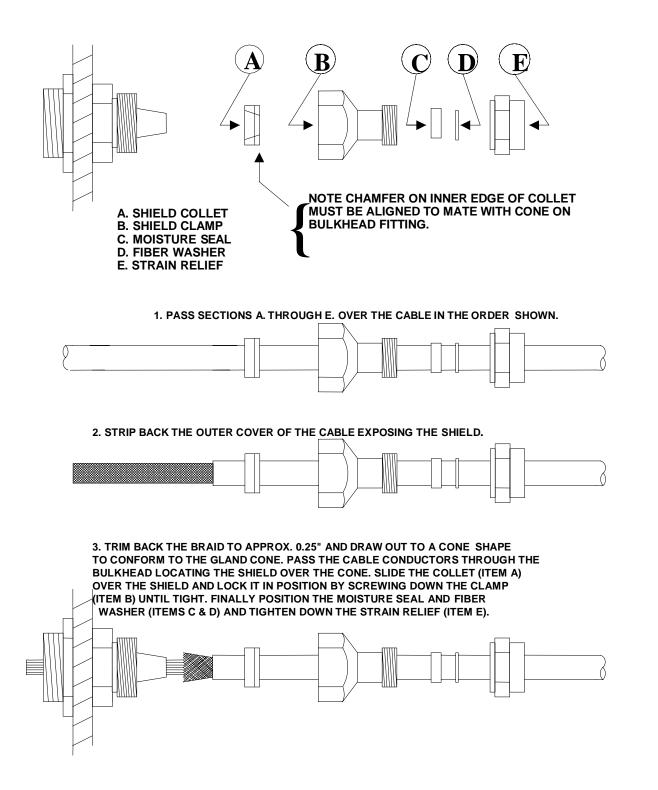
A047013 CABLE

Appendix C is for cable A047013. This cable connects the extension reel to the computer. Use Appendix C in conjunction with the Cable 3 wiring table on page 11.

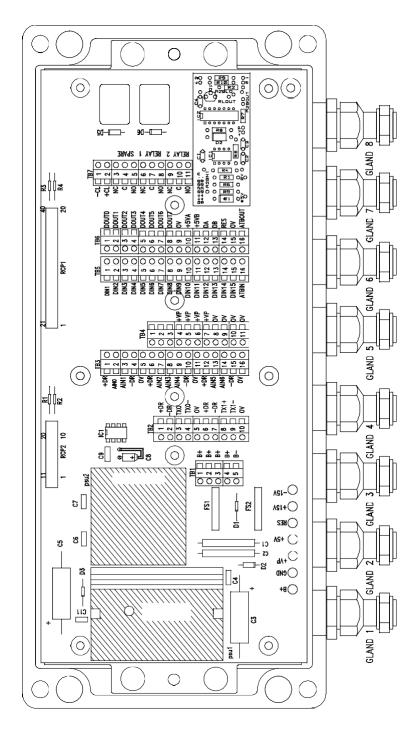
INSTALLATION OF NEW ANGLE SENSOR AND NEW STYLE CONNECTOR TO UPDATE REEL BLR-800C / 801C TO BLR-805D

| Pin Designation | Reel Terminal Block | Wire Color | Computer Connection |
|-----------------|---------------------|------------|------------------------|
| N | 1 | RED | +DR |
| E | 2 | BLUE | -DR |
| D | 3 | WHITE | AIN 2 |
| А | 4 | GREEN | AIN 3 |
| G | 5 | BROWN | ATBIN |
| В | 6 | BLACK | 0V |

PROCEDURE FOR CONNECTING CABLE SHIELDS



SYSTEM COMPUTER



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CABLE SCHEDULE

The following section contains information pertaining to the wiring of the sensors. Terminate the shields (if applicable) as described on page 8. Insert the cables through the glands as shown on page 9.

CABLE 1

PISTON PRESSURE TRANSDUCER

4 CONDUCTOR SHIELDED

| CABLE COLOR | FUNCTION | COMPUTER | TERMINAL |
|-------------|---------------------|----------|----------|
| RED | TRANSDUCER DRIVE + | +DR | TB 2 |
| BLUE | TRANSDUCER DRIVE - | -DR | TB 2 |
| YELLOW | TRANSDUCER SIGNAL + | TX0+ | TB 2 |
| GREEN | TRANSDUCER SIGNAL - | TX0- | TB 2 |

CABLE 2

ROD PRESSURE TRANSDUCER 4 CONDUCTOR SHIELDED

| CABLE COLOR | FUNCTION | COMPUTER | TERMINAL |
|-------------|---------------------|----------|----------|
| RED | TRANSDUCER DRIVE + | +DR | TB 2 |
| BLUE | TRANSDUCER DRIVE - | -DR | TB 2 |
| YELLOW | TRANSDUCER SIGNAL + | TX1+ | TB 2 |
| GREEN | TRANSDUCER SIGNAL - | TX1- | TB 2 |

CABLE 3

BOOM EXTENSION, BOOM ANGLE AND A.T.B SIGNAL

8 CONDUCTOR SHIELDED (6 USED) SEE APPENDIX C

| CABLE COLOR | FUNCTION | COMPUTER/TERMINAL | REEL CON'TR |
|-------------|-------------------|-------------------|-------------|
| RED | DRIVE + | +DR / TB - 3 | Ν |
| BLUE | DRIVE - | -DR / TB - 3 | D |
| WHITE | EXTENSION SIGNAL | AIN: 2 / TB - 3 | E |
| BROWN | A.T.B SIGNAL | A.T.B IN / TB - 5 | G |
| BLACK | A.T.B GROUND | 0V / TB - 4 | В |
| GREEN | BOOM ANGLE SIGNAL | AIN: 3 / TB - 3 | А |
| ORANGE | NOT USED | | |
| YELLOW | NOT USED | | |

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CABLES 4 & 5

NOT USED

TYPICAL LINK-BELT WIRING ON MG-3 SYSTEMS.

USE THE FOLLOWING NUMBERS AND COLORS WHEN CONNECTING WIRES IN THE MG-424 COMPUTER

| LINK-BELT WIRE NUMBER AND COLOR | FUNCTION | MG-424 CONNECTION POINT |
|------------------------------------|------------------------------|-----------------------------|
| ORANGE 348 A | SYSTEM POWER INPUT | T/B 1 –B (+) |
| ORANGE 348 C | SWING SWITCH POWER | T/B 1 – EXTRA B (+) |
| ORANGE 349 A | FUNCTION K/O POWER SOURCE | T/B 7 RELAY 1 COMMON |
| BLACK 348 B | SYSTEM GROUND | T/B 1 – B (-) |
| BLACK 349 G | GROUND FOR K/O VALVES | CONNECT TO GROUND ON CRANE |
| YELLOW 348 D | AREA DEFINITION SWING SWITCH | DIGITAL INPUT (SEE CABLE 6) |
| YELLOW 348 E | AREA DEFINITION SWING SWITCH | DIGITAL INPUT (SEE CABLE 6) |
| YELLOW 349 B | FUNCTION K/O FEED | T/B 7 RELAY 2 N/O |

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| SWING SWITCH INPUTS - RT MODELS | | SWING SWITCH | INPUTS - TRUCK N | IODELS | |
|---------------------------------|------------------------|--------------------|------------------|------------------------|--------------------|
| FUNCTION | COMPUTER CONNECTION | WIRE COLOR | FUNCTION | COMPUTER CONNECTION | WIRE COLOR |
| SWITCH PWR | +B | TBD | SWITCH PWR | +B | TBD |
| 360 CHART | D IN 2 | TBD | 360 CHART | D IN 2 | TBD |
| OVER FRONT | D IN 3 | TBD | OVER REAR | D IN 1 | TBD |
| IN LINE | D IN 7 | JUMPER W/ DIN 3 | IN LINE | D IN 8 | JUMPER W/ DIN 1 |

Wire colors are determined when they are removed from the old system. We recommend marking each wire with its location before removing it from the discarded computer. Mg-3 systems have the following designations for swing.

| DIGITAL INPUT | DESIGNATION |
|---------------|-------------|
| D IN 4 | OVER REAR |
| D IN 5 | IN LINE |
| D IN 6 | 360 |
| D IN 7 | OVER FRONT |

Note: RLI 200 Systems do not need swing inputs. Install jumper between +VP and DIN2.

CABLE 7

DISPLAY

8 CONDUCTOR SHIELDED - SEE APPENDIX E

| CABLE COLOR | FUNCTION | DISPLAY CON'TR | COMPUTER/ TERMINAL |
|-------------|-------------|----------------|--------------------|
| WHITE | DATA LINE A | 6 | DA / TB-6 |
| BLACK | DIGITAL 0V | 2 | 0V / TB-6 |
| ORANGE | DIGITAL 0V | 4 | 0V / TB-6 |
| BLUE | RESET LINE | 8 | RES. / TB - 6 |
| GREEN | DATA LINE B | 7 | DB / TB-6 |
| YELLOW | +5VA | 1 | +5VA / TB - 6 |
| RED | +5VB | 3 | +5VB / TB - 6 |
| BROWN | NOT USED | | |



CABLE 8

POWER AND FUNCTION KICK-OUT 4 CONDUCTOR 16 AWG SHIELDED

| CABLE COLOR | FUNCTION | COMPUTER / TERMINAL |
|-------------|--------------|----------------------------|
| RED | POWER IN | B+ /TB-1 |
| BLACK | GROUND | B - / TB - 1 |
| WHITE | F.K.O +V IN | RL1 COMMON / TB - 7 |
| GREEN | F.K.O +V OUT | RL2 NORMALLY OPEN / TB - 7 |

Note: This system operates better with two separate power feeds (one for the b+, the other for f.k.o. +v in.)

SYSTEM BY-PASS SWITCH

| COLOR | SWITCH | FUNCTION | COMPUTER CON'N / TERMINAL |
|--------|--------|----------------------------|----------------------------|
| RED | COMMON | BATTERY + | RL1 COMMON / TB - 7 |
| BLACK | N/O | BY-PASS RELAYS WHEN CLOSED | RL1 NORMALLY OPEN / TB - 7 |
| YELLOW | N/C | SIGNAL BY-PASS WHEN OPEN | DIN: 10 / TB - 5 |

A.T.B. BOARD CONNECTIONS

| COLOR | BOARD LOCATION | COMPUTER CONNECTION / TERMINAL | FUNCTION | |
|--------|----------------|-----------------------------------|---------------------|--|
| RED | 1 | + CL / TB - 7 | SWG +DR (OUT) | |
| BLACK | 3 | - CL / TB - 7 | SWG -DR (OUT) | |
| VIOLET | A.T.B LO | A.T.B IN / TB - 5 | ATB SIGNAL | |
| RED | + 5V | + 5VA / TB - 6 | BOARD POWER | |
| BLACK | 0V | 0V / TB - 4 | BOARD GND. | |
| WHITE | A.T.B OUT | DIN: 13 / TB - 5 | ATB CONDITIONING | |
| RED | 2 | +DR / TB - 3 | SWG +DR (IN) | |
| BLUE | 4 | -DR / TB - 3 | SWG -DR (IN) | |
| YELLOW | +VP | +VP / TB - 4 | A.T.B SIG. PULL-UPS | |
| WHITE | RL OUT | DOUT 1 / TB - 6 | A.T.B KICK-OUT | |
| ORANGE | A.T.B HI | NO CONNECTION | | |

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MEASUREMENTS CRITICAL TO CALIBRATION

The dimensions illustrated in the following two pages are **vital to the calibration procedure**. These measurements should be obtained during the installation of the components and must be entered into the System **after initializing Personality** and before starting sensor calibration. Follow the instructions for each dimension required. Then, record each dimension on the appropriate page. Double-check the measurements obtained to ensure accuracy.

MICROGUARD[®]- 424 APPLICATION DATA SHEET - TELESCOPIC CRANES

INFORMATION & OUTLINE OF APPLICATION REQUIREMENTS.

The completion of this application data sheet is required prior to the application of a MicroGuard[®]-424 rated capacity indicator to any specific machine model. The information provided by this document is used to initialize the calibration of the rated capacity indicator in order to ensure minimum on-site calibration effort. A full capacity chart with detailed notes and range diagrams is required in order to complete the system application.

CRANE OUTLINE

| Crane Make & Model | |
|---|--|
| Chart Numbers (Supply with this document) | |
| | |
| | |
| | |
| | |
| | |
| | |

| Units of length |
|-------------------------|
| (Check appropriate box) |

Feet Meters

Units of force (Check appropriate box)

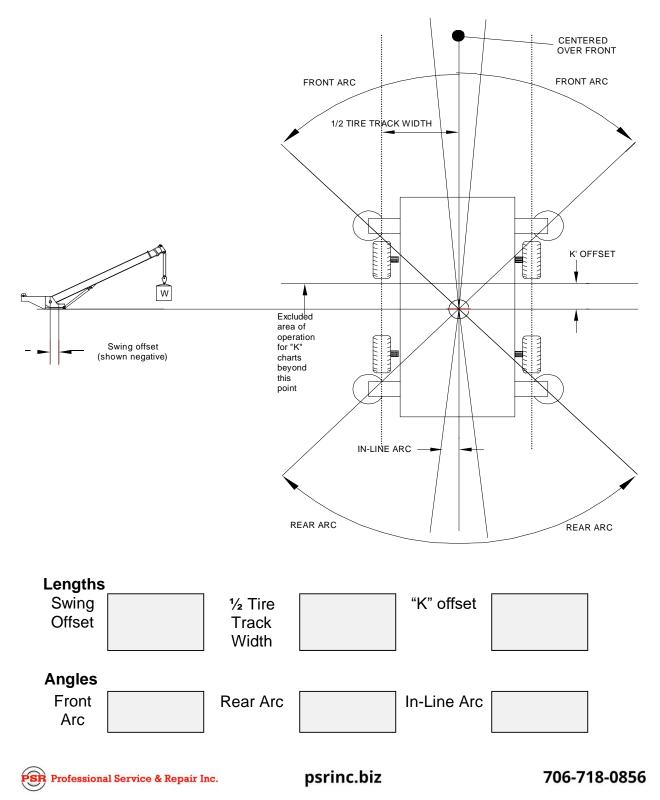
| | Pounds*10 | Tons(US) | Tons(UK) | Tons(Metric) |
|---|-----------|----------|----------|--------------|
|) | 00 | | | |



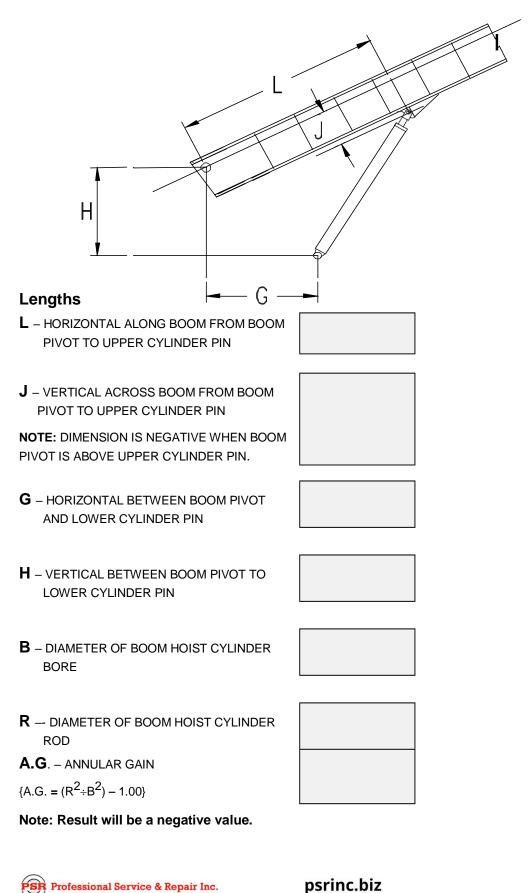
SWING DATA

The following dimensions are required when the rated capacity indicator is to be fitted with absolute measurement of swing angle with either a potentiometer or shaft encoder fitted within the center post or to the swing gear.

For machines fitted with swing switch area definition, indicate the appropriate arcs required by the chart.



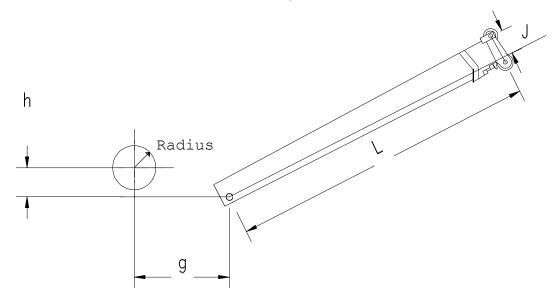
BOOM HOIST DATA



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WINCH DATA

Winch dimensions are required to allow for compensation of moment arm created by the winch position. For winches mounted on the boom, dimensions are not required.



| | MAIN/FRONT WINCH | AUX/REAR WINCH |
|---|---------------------|-------------------|
| L – HORIZ'L ALONG BOOM FROM BOOM PIVOT TO TOP SHEAVE CENTER (BOOM RETRACTED) | | |
| ${f J}$ – VERTICAL FROM BOOM PIVOT TO TOP SHEAVE CENTER (BOOM RETRACTED) | | |
| ${f G}$ – HORIZONTAL BETWEEN BOOM PIVOT AND WINCH CENTER OF ROTATION | | |
| \mathbf{H} – VERTICAL BETWEEN BOOM PIVOT AND WINCH CENTER OF ROTATION | | |
| NOTE: THIS DIMENSION IS NEGATIVE WHEN BOOM PIVOT IS ABOVE WINCH CENTER OF ROTATION. | | |
| ${f R}$ WINCH RADIUS (INCLUDE 2 OR 3 LAYERS OF ROPE) | | |
| ${f F}$ – MAXIMUM RATED LINE PULL STANDARD ROPE | | |

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DEAD-END BECKET DATA

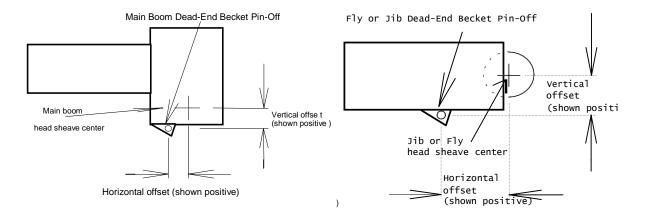
The below dimensions are used to compute radius offset when using 2-part line on the Auxiliary Head Sheave or any of the Fly's or Jibs.

Dimensions are from the center of main boom or fly/jib sheave to the center of the dead-end becket.

Horizontal offset from dead-end Becket to centerline of the head sheave

| MAIN HEAD | FLY/JIB #1 | FLY/JIB #2 | FLY/JIB #3 |
|-----------|------------|------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Vertical offset from dead-end Becket to center-line of the head sheave

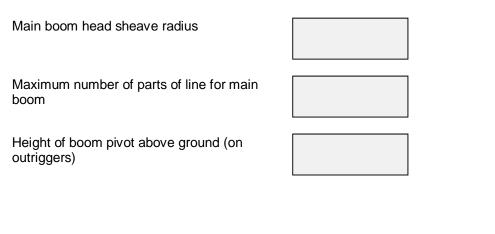


MAIN BOOM DATA

MicroGuard-414 allows for up to four main boom calibrations.

Any configuration of the telescoping boom, which is not detachable and will alter the operating length and/or moment, will require a separate calibration. This will include: Booms with more than one telescoping sequence or boom + manual or powered telescoping tip extension.

Detachable attachments such as lattice fly's, telescoping fly's and auxiliary heads do not require calibration and are covered later in this document.





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ATTACHMENT DATA

Attachments are extensions to the boom that are removable. Auxiliary heads should be included as an attachment.

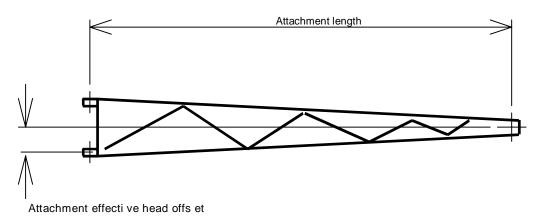
The following attachment data should be specified as accurately as possible to avoid calibration errors. Use data sheet on page 12 to indicate dimensions copy extra sheets as required.

ATTACHMENT LENGTH & HEAD OFFSET

The following dimensions should be specified to the nearest inch.

Attachment length: distance along fly centerline, between fly attachment lower mounting pin and attachment head sheave center.

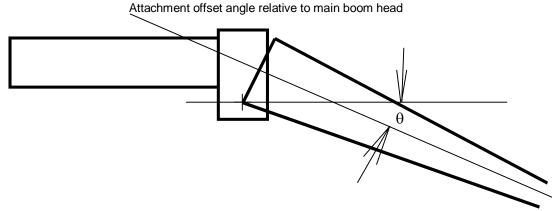
Attachment head offset: Distance between attachment head sheave center and centerline, perpendicular to centerline.



For telescoping flys, the effective offset needs to take the effect of telescoping section droop into account.

ATTACHMENT DATA CONTINUED

ATTACHMENT OFFSET ANGLE: Offset angle of attachment relative to main boom head (specify to nearest 0.1 degrees)



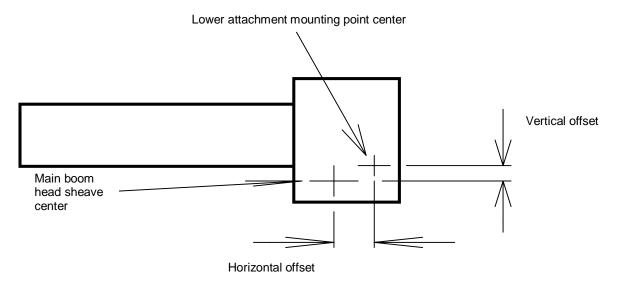
ATTACHMENT MOUNTING OFFSET

The following attachment mounting offset dimensions are usually not required, since most attachments are mounted to the main boom head sheave center.

Please indicate dimensions to nearest inch.

Attachment mounting offset (horiz): Distance between main boom head sheave center and center of attachment lower mounting point along boom centerline.

Attachment mounting offset (vert): Distance between main boom head sheave center and center of attachment lower mounting point perpendicular to boom centerline.



Crane System

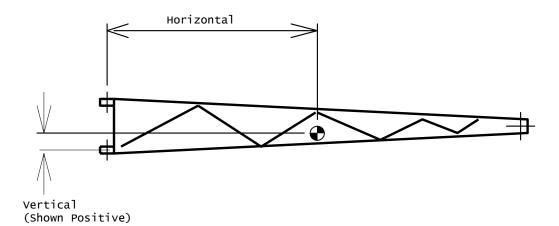
ATTACHMENT DATA CONTINUED

ATTACHMENT CENTER OF GRAVITY (ERECTED)

Please indicate dimensions to nearest inch.

Attachment center of gravity (horiz): Distance between attachment lower mounting point and center of gravity along attachment centerline.

Attachment center of gravity (vert): Distance between attachment lower mounting point and center of gravity perpendicular to attachment centerline.



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Crane Systems

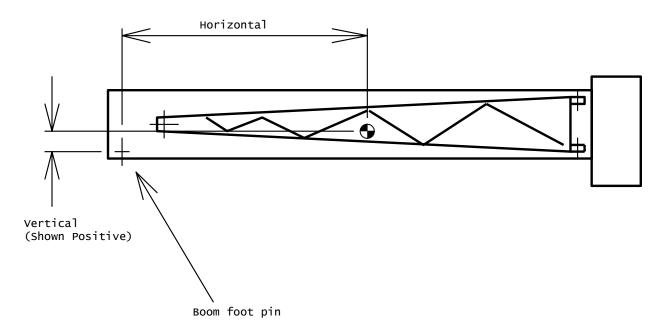
ATTACHMENT DATA continued

ATTACHMENT CENTER OF GRAVITY (STOWED)

Please indicate dimensions to nearest inch.

Stowed attachment center of gravity (horiz): Distance between main boom pivot and center of gravity along main boom centerline.

Stowed attachment center of gravity (vert): Distance between main boom pivot and center of gravity perpendicular to main boom centerline.



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GREER COMPANY

Crane System

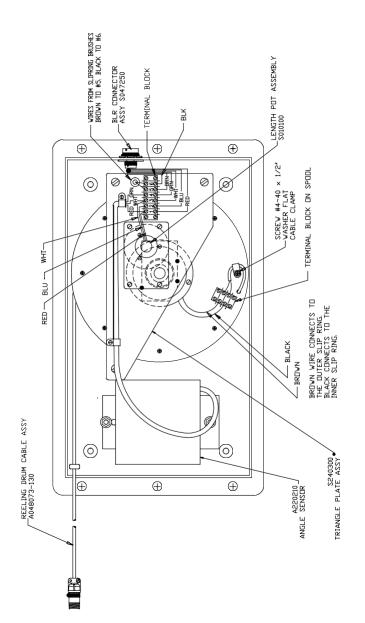
Attachment Data cont'd

| | Attachment #1 | Attachment #2 | Attachment #3 | Attachment #4 | Attachment #5 | Attachment #6 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Attachment name | | | | | | |
| I - Attachment length | | | | | | |
| s - Attachment head offset | | | | | | |
| h - Attachment mounting offset - horizontal | | | | | | |
| v - Attachment mounting offset - vertical | | | | | | |
| a - Attachment offset angles | | | | | | |
| g - Attachment center of gravity - horizontal | | | | | | |
| t - Attachment center of gravity - vertical | | | | | | |
| w - Attachment weight | | | | | | |
| r - Head sheave radius | | | | | | |
| Stowed attachment data | | | | | | |
| g - Attachment center of gravity - horizontal | | | | | | |
| t - Attachment center of gravity -vertical | | | | | | |
| Stowed deduct wt. | | | | | | |
| Erected deduct wt. | | | | | | |

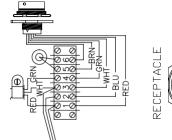
GREER COMPANY Crane System

APPENDIX A

EXTENSION REEL LAYOUT

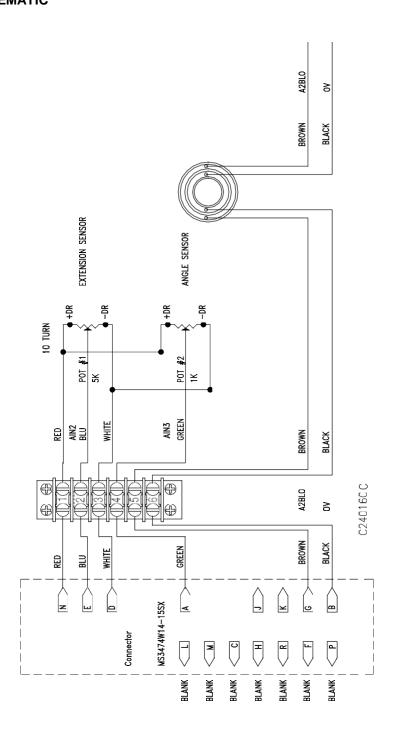


| | SIGNAL NAME | + DRIVE | LENGTH SIG | -DRIVE (NOT GND) | ANGLE SIG. | BLOCK SIG. | BLOCK GND. |
|-------------|----------------------|---------|------------|------------------|------------|------------|------------|
| CONNECTIONS | CONNECTOR PIN NO. | N | ш | D | A | G | В |
| 00 | TERM PIN NO. | - | 2 | 3 | 4 | 5 | 9 |
| | WIRE COLOR | RED | BLUE | WHITE | GREEN | BROWN | BLACK |



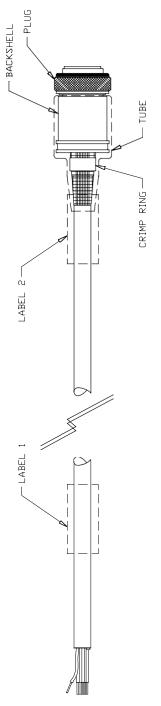


APPENDIX B BULK HEAD CONNECTOR SCHEMATIC



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APPENDIX C REEL TO COMPUTER CABLE ASSEMBLY

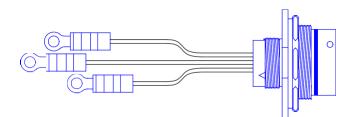


| COLOR | PIN# | WIRE I.D. |
|--------|------|------------------------|
| RED | z | +DR |
| WHITE | ш | AIN2 |
| BLUE | D | -DR |
| GREEN | A | AIN3 |
| BROWN | 9 | A2BIN |
| BLACK | В | ٥V |
| ORANGE | I | NONE |
| YELLOW | I | NONE |
| | | A047013 ^{rev} |

GREER COMPANY

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APPENDIX D BULK HEAD CONNECTOR



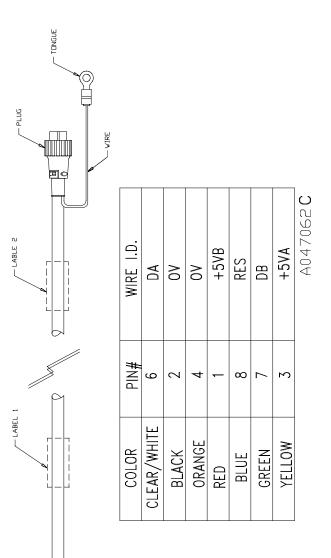
| TERM | COLOR | PIN# | WIRE LENGTH | AWG | FUNCTION |
|------|-------|------|-------------|-----|----------|
| 4 | GREEN | А | 6.75 | 22 | AIN 3 |
| 6 | BLACK | В | 6.00 | 22 | 0 V |
| 3 | WHITE | D | 7.00 | 22 | — DR |
| 2 | BLUE | E | 7.50 | 22 | AIN 2 |
| 5 | BROWN | G | 6.75 | 22 | ATB IN |
| 1 | RED | Ν | 7.75 | 22 | + DR |

S047250 A

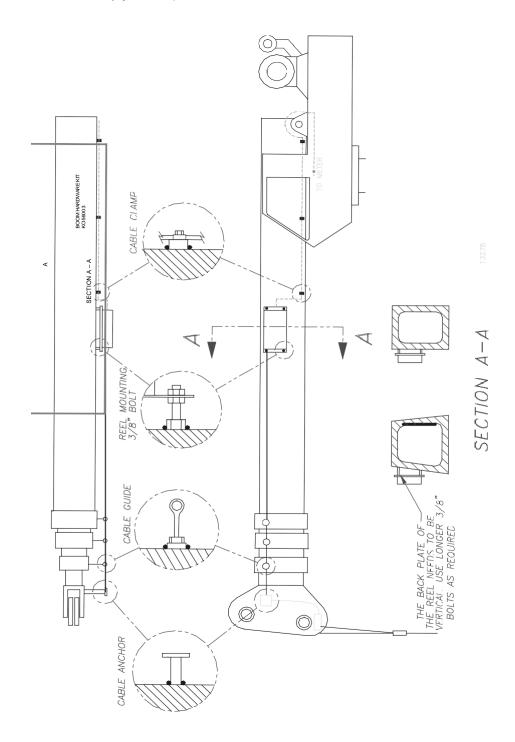
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Crane Systems

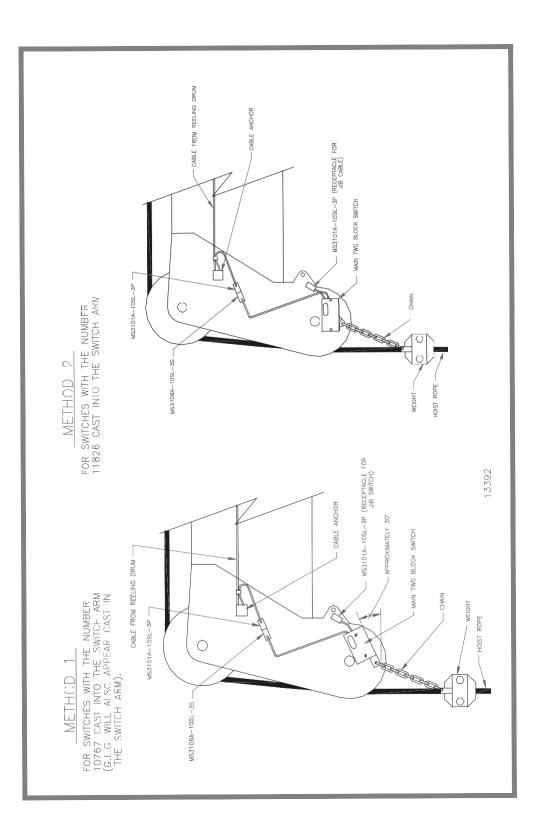
APPENDIX E DISPLAY TO COMPUTER CABLE ASSEMBLY



APPENDIX F EXTENSION REEL MOUNTING (hydraulic)



APPENDIX G EXTENSION REEL MOUNTING (hydraulic)



GREER COMPANY SERVICE DEPARTMENT RETROFIT CALIBRATION REPORT

COMPLETE AND RETURN A COPY TO GREER ALONG WITH THE BACKUP PERSONALITY.

| MACHINE TYPE | MACHINE SERIAL # | DUTY CHIP # | SYSTEM TYPE | DATE COMPLETED | | |
|-----------------|---------------------|-----------------|----------------|-------------------|--|--|
| | | | | | | |
| COMPUTER | DISPLAY | REEL | ANGLE | ATB SERIAL # | | |
| P/N: | P/N: | P/N: | P/N: | MAIN | | |
| S/N: | S/N: | S/N: | S/N: | JIB/ AUX. | | |
| | og Sensors | | | | | |
| TX0 | / | | | | | |
| Ain2 | | | | | | |
| Ain3 | | | | | | |
| 2. Span Anal | og Sensors | | | | | |
| - | Ain3 | | | | | |
| | | l/ | / | / | | |
| | | ng Switches, | | | | |
| . Pressure s | | | | | | |
| | entered | | | | | |
| Radius mea | asured | | | | | |
| Indicated lo | oad | | | | | |
| 5. MAIN BOC | M ONLY: | | | | | |
| Radius / M | oment: Retracted I | ow angle | measured radiu | IS | | |
| | | High angle | measured radi | us | | |
| | | Ind. length | | | | |
| | Mid extension | low angle | measured radi | us | | |
| | | High angle | measured radi | us | | |
| | | Ind. length | | | | |
| | Full extension | low angle | measured rad | ius | | |
| | | High angle | measured rac | lius | | |
| | | Ind. length | | | | |
| 6. Boom Def | ection Correction | Actualload | | | | |
| | | Measured radius | | | | |
| | | Radius entered | F value = | | | |
| | | Indicated load | | | | |
| 7. Annular ga | ain test | | | | | |

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Crane Systems

GREER COMPANY SERVICE DEPARTMENT RETROFIT CALIBRATION REPORT continued

8. ALTERNATE or TIP SECTION:

| Radius / Moment: Retracted low angle | | | measured radius | | | | |
|--------------------------------------|---|-----------------|-----------------|--|--|--|--|
| | | High angle | measured radius | | | | |
| | | Ind. length | | | | | |
| | Mid extension | - | | | | | |
| | | - | measured radius | | | | |
| | | Ind. length | | | | | |
| | | 0 | | | | | |
| | Full extension | low angle | measured radius | | | | |
| | | High angle | measured radius | | | | |
| | | Ind. length | | | | | |
| 9. | 9. Boom Deflection Correction: Actual load | | | | | | |
| | | Measured radius | s | | | | |
| | | Radius entered | F value = | | | | |
| | | Indicated load | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 10. Manual BDC: F= | | | | | | | |
| 11. | Jib BDC: F= | | | | | | |
| 12. | Save and copy calibration Label chip with machine type and serial number. Return copy chip to the Greer Company. | | | | | | |
| 13. | System installed and calibrate | ed by: | | | | | |
| 14. | 4. Crane Owner (Company)Location | | | | | | |
| 15. | 5. Date completedSignature | | | | | | |
| | | | | | | | |

COMMENTS:

PSR Professional Service & Repair Inc.