

[BREAK Wakeup A]

WorkHorse Broadband ADCP Version 16.21

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>DEPLOY?

Deployment Commands:

RE ----- Recorder ErAsE

RN ----- Set Deployment Name

WD = 111 100 000 ----- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)

WF = 0176 ----- Blank After Transmit (cm)

WN = 040 ----- Number of depth cells (1-128)

WP = 00120 ----- Pings per Ensemble (0-16384)

WS = 0100 ----- Depth Cell Size (cm)

WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

TE = 00:05:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)

TF = **/**/**, **: **: ** --- Time of First Ping (yr/mon/day, hour:min:sec)

TP = 00:01.00 ----- Time per Ping (min:sec.sec/100)

TS = 06/08/17,17:45:59 --- Time Set (yr/mon/day, hour:min:sec)

EA = +00000 ----- Heading Alignment (1/100 deg)

EB = +01448 ----- Heading Bias (1/100 deg)

ED = 00350 ----- Transducer Depth (0 - 65535 dm)

ES = 35 ----- Salinity (0-40 pp thousand)

EX = 11111 ----- Coord Transform (Xform: Type,Tilts,3 Bm,Map)

EZ = 1111101 ----- Sensor Source (C,D,H,P,R,S,T)

CF = 11101 ----- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)

CK ----- Keep Parameters as USER Defaults

CR # ----- Retrieve Parameters (0 = USER, 1 = FACTORY)

CS ----- Start Deployment

>SYSTEM?

System Control, Data Recovery and Testing Commands:

AC ----- Output Active Fluxgate & Tilt Calibration data

AF ----- Field calibrate to remove hard/soft iron error

AR ----- Restore factory fluxgate calibration data

AX ----- Examine compass performance

AZ ----- Zero pressure reading

CB = 411 ----- Serial Port Control (Baud; Par; Stop)

CP # ----- Polled Mode (0 = NORMAL, 1 = POLLED)

CZ ----- Power Down Instrument

FC ----- Clear Fault Log

FD ----- Display Fault Log

OL ----- Display Features List

PA ----- Pre-Deployment Tests

PC1 ----- Beam Continuity

PC2 ----- Sensor Data

PS0 ----- System Configuration

PS3 ----- Transformation Matrices

RR ----- Recorder Directory

RF ----- Recorder Space used/free (bytes)

RY ----- Upload Recorder Files to Host

>TS?

TS = 06/08/17,17:46:05 --- Time Set (yr/mon/day, hour:min:sec)

```
>PS0
Instrument S/N: 5010
Frequency: 307200 HZ
Configuration: 4 BEAM, JANUS
Match Layer: 10
Beam Angle: 20 DEGREES
Beam Pattern: CONVEX
Orientation: DOWN
Sensor(s): HEADING TILT 1 TILT 2 DEPTH TEMPERATURE PRESSURE
Pressure Sens Coefficients:
c3 = +1.460894E-13
c2 = +1.487533E-08
c1 = +5.393192E-02
Offset = -6.277608E+00
```

Temp Sens Offset: -0.01 degrees C

```
CPU Firmware: 16.21 [0]
Boot Code Ver: Required: 1.13 Actual: 1.13
DEM0D #1 Ver: ad48, Type: 1f
DEM0D #2 Ver: ad48, Type: 1f
PWRTIMG Ver: 85d3, Type: 5
```

Board Serial Number Data:

```
5A 00 00 03 87 C8 34 09 PI0727-3000-04C
E5 00 00 03 87 A1 11 09 CPU727-2000-00J
D8 00 00 03 87 97 9B 09 REC727-1000-04E
1B 00 00 03 87 C4 4F 09 DSP727-2001-04G
```

>PA

PRE-DEPLOYMENT TESTS

CPU TESTS:

```
RTC.....PASS
RAM.....PASS
ROM.....PASS
```

RECORDER TESTS:

```
PC Card #0.....NOT DETECTED
PC Card #1.....DETECTED
Card Detect.....PASS
Communication.....PASS
DOS Structure.....PASS
Sector Test (short).....PASS
```

DSP TESTS:

```
Timing RAM.....PASS
Demod RAM.....PASS
Demod REG.....PASS
FIFOs.....PASS
```

SYSTEM TESTS:

```
XILINX Interrupts... IRQ3 IRQ3 IRQ3 ...PASS
Receive Loop-Back.....PASS
Wide Bandwidth.....***FAIL***
Narrow Bandwidth.....PASS
RSSI Filter.....PASS
Transmit.....PASS
```

SENSOR TESTS:

```
H/W Operation.....PASS
```

>PC2

Press any key to quit sensor display ...

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	PRESSURE
97.60°	-17.23°	1.54°	Down	22.18°C	21.79°C	-1.9 kPa

>RS
RS = 005,011 ----- REC SPACE USED (MB), FREE (MB)

>PC1

BEAM CONTINUITY TEST

When prompted to do so, vigorously rub the selected beam's face.

If a beam does not PASS the test, send any character to the ADCP to automatically select the next beam.

Collecting Statistical Data...

37 39 41 36

Rub Beam 1 = PASS

Rub Beam 2 = PASS

Rub Beam 3 = PASS

Rub Beam 4 = PASS

>CZ

Powering Down

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>ps0

Instrument S/N: 5010

Frequency: 307200 HZ

Configuration: 4 BEAM, JANUS

Match Layer: 10

Beam Angle: 20 DEGREES

Beam Pattern: CONVEX

Orientation: UP

Sensor(s): HEADING TILT 1 TILT 2 DEPTH TEMPERATURE PRESSURE

Pressure Sens Coefficients:

c3 = +1.460894E-13

c2 = +1.487533E-08

c1 = +5.393192E-02

Offset = -6.277608E+00

Temp Sens Offset: -0.01 degrees C

CPU Firmware: 16.21 [0]

Boot Code Ver: Required: 1.13 Actual: 1.13

DEM0D #1 Ver: ad48, Type: 1f

DEM0D #2 Ver: ad48, Type: 1f

PWRTIMG Ver: 85d3, Type: 5

Board Serial Number Data:

5A 00 00 03 87 C8 34 09 PI0727-3000-04C

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1B 00 00 03 87 C4 4F 09 DSP727-2001-04G

>ps1

6

>ps2

BÇ

>ps3
Beam Width: 3.7 degrees

Beam	Elevation	Azimuth
1	-69.97	270.02
2	-69.89	90.01
3	-69.93	359.99
4	-70.00	179.99

Beam Directional Matrix (Down):

0.3425	-0.0001	0.9395	0.2429
-0.3438	0.0001	0.9391	0.2420
0.0001	-0.3433	0.9393	-0.2420
-0.0001	0.3420	0.9397	-0.2429

Instrument Transformation Matrix (Down):				Q14:			
1.4556	-1.4587	0.0009	0.0015	23849	-23900	14	25
0.0016	0.0009	-1.4608	1.4576	26	15	-23934	23882
0.2666	0.2656	0.2656	0.2667	4368	4352	4352	4369
1.0331	1.0293	-1.0290	-1.0330	16927	16864	-16859	-16925

Beam Angle Corrections Are Loaded.
>pc1

BEAM CONTINUITY TEST

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37 39 41 36

Rub Beam 1 = PASS
Rub Beam 2 = PASS
Rub Beam 3 = PASS
Rub Beam 4 = PASS

>pc1

BEAM CONTINUITY TEST

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Collecting Statistical Data...
37 39 41 36

Rub Beam 1 = PASS
Rub Beam 2 = PASS
Rub Beam 3 = PASS
Rub Beam 4 = PASS

>pc2

Press any key to quit sensor display ...

Heading	Pitch	Roll	Up/Down	Attitude Temp	Ambient Temp	PRESSURE
248.51°	-27.31°	22.99°	Up	22.22°C	21.90°C	-3.8 kPa

>pc3

>pc4

>