

>>>>> Function starting 04/15/16 18:18:01 >>>>>

>>>>> Function starting 04/15/16 18:18:34 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
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>TS160415181837  
>CZ

Powering Down

>>>>> Function starting 04/15/16 18:18:40 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
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>AX

-----  
RDI Compass Error Estimating Algorithm

Press any key to start taking data after the instrument is setup.

Rotate the unit in a plane until all data samples are acquired...  
rotate less than 5°/sec. Press Q to quit.

N            NE            E            SE            S            SW            W            NW            N  
^            ^            ^            ^            ^            ^            ^            ^

\*\*\*\*\*>\*\*\*\*\*  
Calculating compass performance ...

>>> Total error: 3.2° <<<

Press D for details or any other key to continue...

>CZ

Powering Down

>>>>> Function starting 04/15/16 18:19:33 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
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>CR1  
[Parameters set to FACTORY defaults]  
>DEPLOY?

- Deployment Commands:
- CF = 11111 ----- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
  - CK ----- Keep Parameters as USER Defaults
  - CR # ----- Retrieve Parameters (0 = USER, 1 = FACTORY)
  - CS ----- Start Deployment
  
  - EA = +00000 ----- Heading Alignment (1/100 deg)
  - EB = +00000 ----- Heading Bias (1/100 deg)
  - ED = 00000 ----- 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)

RE ----- Recorder ErAsE  
RN ----- Set Deployment Name

TE = 01:00:00.00 ----- Time per Ensemble (hrs:min:sec.sec/100)  
TF = \*\*/\*\*/\*\*,\*\*:\*\*:\*\* --- Time of First Ping (yr/mon/day,hour:min:sec)

IP = 01:20.00 ----- Time Set (min:sec.sec/100)  
TS = 16/04/15,18:19:35 --- Time Set (yr/mon/day,hour:min:sec)

WD = 111 100 000 ----- Data Out (Vel,Cor,Amp; PG,St,P0; P1,P2,P3)  
WF = 0176 ----- Blank After Transmit (cm)  
WN = 030 ----- Number of depth cells (1-128)  
WP = 00045 ----- Pings per Ensemble (0-16384)  
WS = 0400 ----- Depth Cell Size (cm)  
WV = 175 ----- Mode 1 Ambiguity Vel (cm/s radial)

>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 16/04/15,18:19:41 --- Time Set (yr/mon/day,hour:min:sec)

>PS0

Instrument S/N: 2025  
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 TEMPERATURE  
Temp Sens Offset: -0.09 degrees C

CPU Firmware: 50.40 [0]  
Boot Code Ver: Required: 1.16 Actual: 1.16  
DEMOM #1 Ver: ad48, Type: 1f  
DEMOM #2 Ver: ad48, Type: 1f  
PWRTIMG Ver: 85d3, Type: 4

Board Serial Number Data:

9C 00 00 02 00 65 04 09 CPU727-2000-00H  
8B 00 00 02 00 2D F2 09 DSP727-2001-04F  
DF 00 00 06 F6 10 C3 09 REC727-1000-04E  
26 00 00 02 C9 28 3F 09 PIO727-3000-04C

>PA

PRE-DEPLOYMENT TESTS

CPU TESTS:

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

RECORDER TESTS:

PC Card #0.....DETECTED  
Card Detect.....PASS  
Communication.....PASS  
DOS Structure.....PASS

```
Sector Test (short).....PASS
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
Wide Bandwidth.....PASS
Narrow Bandwidth.....PASS
RSSI Filter.....PASS
Transmit.....***FAIL***
SENSOR TESTS:
H/W Operation.....PASS
>PC2
```

Press any key to quit sensor display ...

```
All Sensors are Internal Only.
Heading Pitch Roll Up/Down Attitude Temp Ambient Temp PRESSURE
162.82° 0.08° -0.87° Up 22.93°C 22.05°C 0.0 kPa
>RS
```

```
RS = 730,459 ----- 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...
40 43 37 43
```

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

>CZ

Powering Down

```
>>>>> Function starting 04/15/16 18:22:09 >>>>>
```

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 50.40
Teledyne RD Instruments (c) 1996-2010
All Rights Reserved.
>AZERR: No pressure sensor detected.
```

>CZ

Powering Down

```
>>>>> Function starting 04/15/16 18:22:19 >>>>>
```

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 50.40
Teledyne RD Instruments (c) 1996-2010
All Rights Reserved.
>RE ErAsE erasing...
```

```
[BREAK Wakeup A]
WorkHorse Broadband ADCP Version 50.40
Teledyne RD Instruments (c) 1996-2010
```

All Rights Reserved.  
>CZ

Powering Down

>>>>> Function starting 04/15/16 18:22:33 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>RE ErAsE erasing...  
[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>CZ

Powering Down

>>>>> Function starting 04/15/16 18:22:53 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>RE ErAsE erasing...  
[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>CZ

Powering Down

>>>>> Function starting 04/15/16 18:24:14 >>>>>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>RR  
Recorder Directory:  
Volume serial number for device #0 is 3b4e-1c04  
  
No files found.  
  
Bytes used on device #0 = 0  
Volume serial number for device #1 is a4ae-2016  
  
No files found.  
  
Bytes used on device #1 = 0  
Total capacity = 1246470144 bytes  
Total bytes used = 0 bytes in 0 files  
Total bytes free = 1246470144 bytes

>

[BREAK Wakeup A]  
WorkHorse Broadband ADCP Version 50.40  
Teledyne RD Instruments (c) 1996-2010  
All Rights Reserved.  
>CR1  
[Parameters set to FACTORY defaults]  
>CF11101  
>EA0  
>EB1340  
>ED19000  
>ES35  
>EX11111  
>EZ1111101  
>WA50  
>WB0  
>WD111100000

```
>WF176
>WN71
>WP9
>WS100
>WV175
>TE00:00:30.00
>TP00:01.00
>TF16/04/21 00:00:00
>CK
[Parameters saved as USER defaults]
>The command CS is not allowed in this command file. It has been ignored.
>The following commands are generated by this program:
>CF?
CF = 11101 ----- Flow Ctrl (EnsCyc;PngCyc;Binry;Ser;Rec)
>CF11101
>RN MS7_2
>cs
```