UE SYSTEMS INC
*The **ultrasound** approach*

Rev. 1.0	3/2012 SAFETY: Wrist Strap to be Worn at ALL TIMES	△ TQC ☐ Work ○ Verify
2-5 min	UE Systems Training	

1	Needed: Ultraprobe 10,000 and CF card; Stethoscope Module; Rubber Focusing Probe; Headphones	

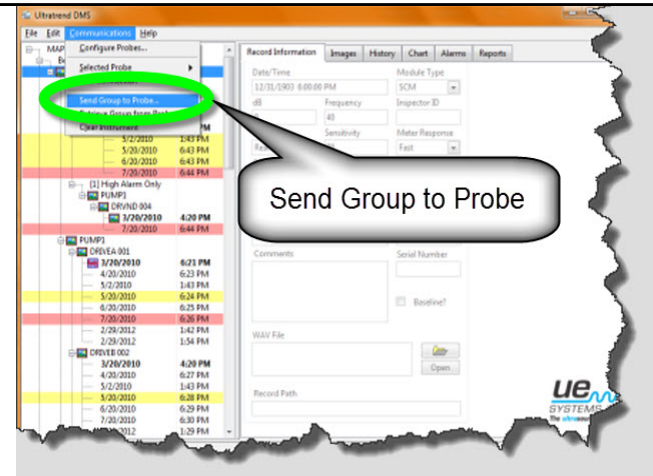| 2	Possible Accessories: Remote Magnetic Transducer; Extension Rods for Stethoscope Module. The Magnet Works very well for Compressors.	

3	Move Cursor to Function Bar by Pushing Sens.Knob 2X and Press Enter for Setup Menu	


```
■ ■ - ■ ■ - ■ ■ ■ >    40 KHz
  70
RT
Press ENTER    005 Rec
for ☆Setup Menu☆
```

4	If Using a Route, move Route to Flash Card, then load to Ultraprobe by using Data Transer. Refer to Instructions "Loading Route."	

Send Group to Probe

Compact Flash Card & Module Inserted BEFORE Turning Ultraprobe ON

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5	If baselining the route, have Instrument Setup in Manual. If route is established and baselined, have Inst.Setup in Auto.	

NOTE

Refer to **Visual Instructions**
for
General Setup
and
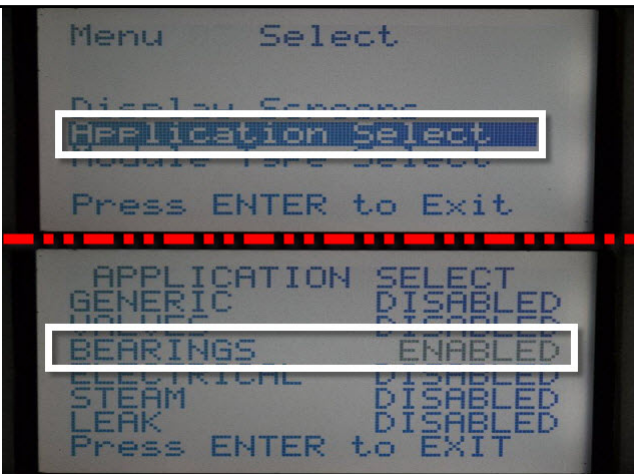**Loading Route to Ultraprobe 10,000**

6	If you are PERFORMING the BASELINE Readings, proceed to NEXT INSTRUCTION, if not READ the Picture Below.	

NOTE

If using setting of
Automatic and Route is Already Baselined,
SKIP
to
Instruction # 14 and set the
Function Bar to "Store Record" or "Record Wav."

7	Rotate for Application Select, Push Sens.Knob. Rotate to Bearings or Generic, push Sens.Knob (Enable Bearings). Press Enter to Exit.	

8	A clean memory is a must to keep files organized. It is Normal to Delete Records when changing apps.	

NOTE

Make sure the Compact Flash Card is empty by deleting all the files on it, before starting or loading a new route.

The onboard built-in memory will be cleared once a New Route is loaded or by changing the Application

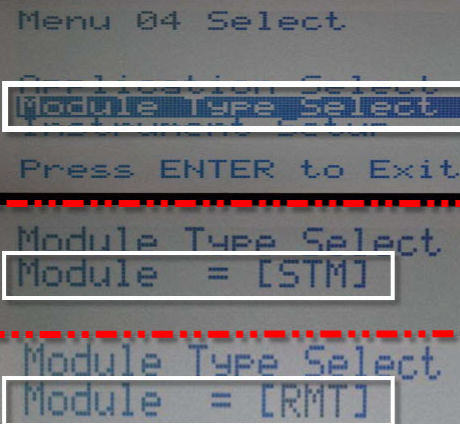| Rev. 1.0	3/2012 SAFETY: Wrist Strap to be Worn at ALL TIMES	△ **TQC** ☐ **Work** ◯ **Verify**
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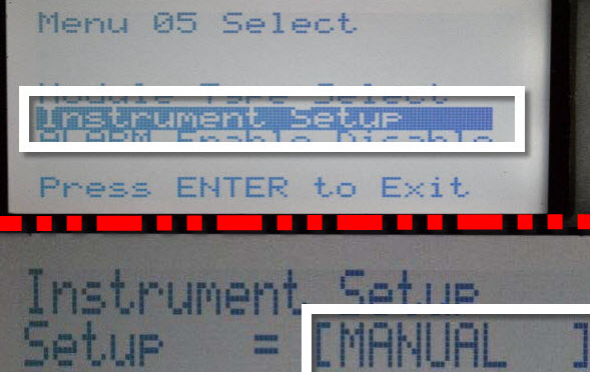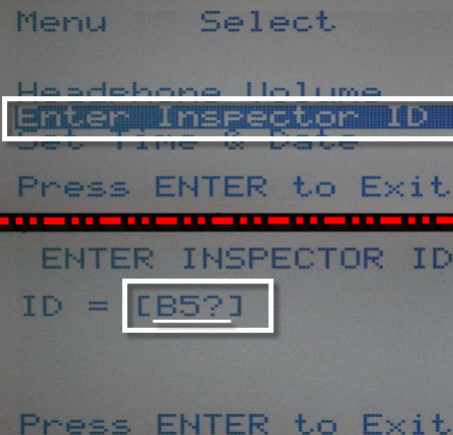| 9	Rotate to Module Type Select, push Sens.Knob. Rotate to Stethoscope (STM) or Remote Magnet (RMT); Push Sens to Select/Exit	

Menu 04 Select

Module Type Select
Instrument Setup

Press ENTER to Exit

Module Type Select
Module   = [STM]

Module Type Select
Module   = [RMT]

10	Rotate to Instrument Setup, Push Sens.Knob. Rotate for "Manual", Push Sens.Knob to Select/Exit	

Menu 05 Select

Module Type Select
Instrument Setup
Al BPM Enable Disable

Press ENTER to Exit

Instrument Setup
Setup   = [MANUAL]

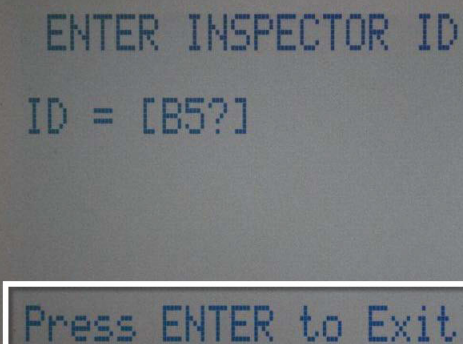| 11	Rotate to Enter Inspector ID [under "More" in Setup Menu], push Sens.Knob. Enter 3 Alpha-Numeric Characters use Sens.Knob.	

Menu   Select

Headphone Volume
Enter Inspector ID
Set Time & Date

Press ENTER to Exit

ENTER INSPECTOR ID

ID = [B5?]

Press ENTER to Exit

12	Press Enter 2X to Save/Exit and return to Main Display.	

ENTER INSPECTOR ID

ID = [B5?]

Press ENTER to Exit

UE SYSTEMS INC ® The *ultrasound approach*	Ultrasound Ultraprobe 10,000 Instructions Compressor Valve Inspection	
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2-5 min	**UE Systems Training**	

13	Push Sens.Knob 1X to move cursor to Frequency. Rotate to 30 kHz (or Frequency Tune for better sound clarity)	


```
----->        25 kHz
  70
RT

Press ENTER    005 Rec
for Setup Menu
```
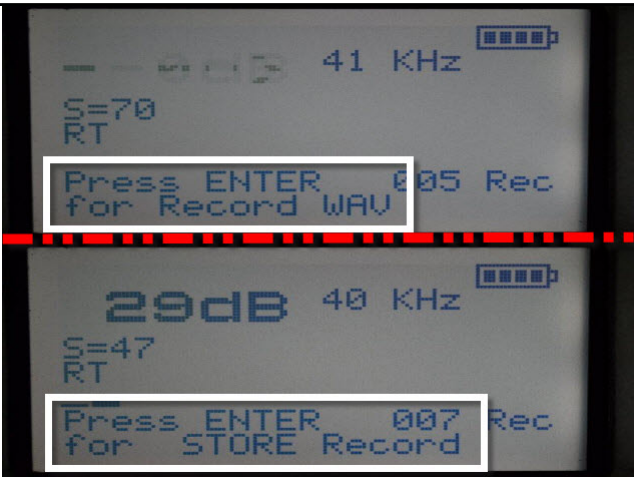
14	IF Route has been baselined and established refer to NOTE. Note does not hold true for troubleshooting WITHOUT having a route loaded.	

Note

If a **baseline route** has already been created and **ESTABLISHED**, and that route has been **loaded** to the Ultraprobe 10,000 (in Automatic mode of Instrument Setup), there will be NO need to change the Application, Module, Inspector ID, or Frequency as this will happen automatically.

15	Push Sens. 1X more [if cursor at S= push 2X] moving Cursor to Function Bar. Rotate Sens until Store Record or Record Wav in prep for readings.	


```
--       41 KHz
S=70
RT

Press ENTER    005 Rec
for Record WAV
```

```
29dB   40 KHz
S=47
RT

Press ENTER    007 Rec
for STORE Record
```

16	Push Sens.Knob 1X more to return cursor to S= (Operational Home Spot for Adjusting Sensitivity).	


```
29dB   40 KHz

S=47
RT
  _

Press ENTER    007 Rec
for STORE Record
```

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17 — NOTE: Choose your test point.

NOTE

Prepare to take a Reading:
Place the cursor back to the Sensitivity Position (S= ___)
and then choose your point and listen.
The Stethoscope module should rest on the test point as close to a 90* angle to test point as possible.

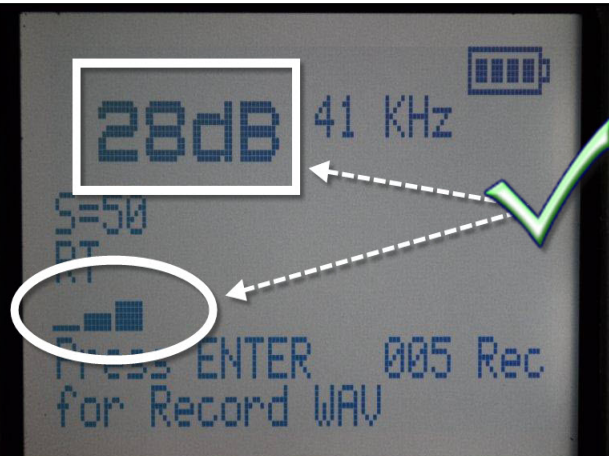NEVER PLACE PRESSURE on the test point!!!

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18 — Listen for the "Snap at the end of every stroke. Or compare and listen for Anomalies.

No Matter what Size of the Compressor, choose the Valve Head for the Test Point. When Comparing Valves, always compare the INLET to INLET and then the OUTLET to OUTLET.

---

19 — [Store Record: Adjust Sens. for dB] OR [Record WAV: Adjust Sens (dB) AND Intensity Meter (2-4 Bars)]

28dB 41 KHz
S=50
Press ENTER   005 Rec
for Record WAV

---

20 — Visual Instructions exist for Storing a Record or Recording a Sound WAV.

Refer to **Visual Instruction** for:

Storing a Record
or
Recording a Sound WAV

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21	Once Finished with Storing Record or Recording Wav, move to next test point. Unit Returns to Main Display advanced to next point.	

WAVE
STORE
CONFIRMED

STORE
RECORD
CONFIRMED

22	ALWAYS WEAR the HEADPHONES.	

NOTE

Even though you may adjust the Sensitivity and Intensity Meter for Storing Records and Record WAV, it is important to WEAR the HEADPHONES and listen.

So before adjusting for storage, adjust the Sensitivity for your EARS and LISTEN to the quality of bearing. Sound doesn't Lie.