



# Honda Diagnostic System

Start Communication

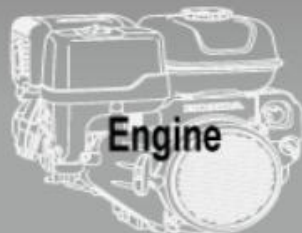
File Open



Outboard Motor



Snow Blower



Engine



Others



Generator

# HONDA

Please input Model Name, Serial Number and Customer Name which is described on your product.

**Model Name(\*):** (\*) is necessary data.

BAHJ

S

C

Please configure and click OK.

OK

Model Name list:

- BF225AK3
- BF225A
- BF225
- BF200AK3
- BF200A
- BF200
- BF175AK3
- BF175A
- BF175
- BF150A4 BF150AK0
- BF150
- BF135A4 BF135AK0
- BF135
- BF130
- BF115D
- BF115
- BF100A
- BF90DK4
- BF90D
- BF80A
- BF75DK3
- BF75D

Please input Model Name, Serial Number and Customer Name which is described on your product.

Model Name(\*):

BF225AK3

(\* is required)

Serial Number(\*):

BAHJ

BAGJ

BAHJ

Customer Name:

Customer Address:

Please confirm input code, and click OK.

Please input Model Name, Serial Number and Customer Name which is described on your product.

Model Name(\*):

BF225AK3

(\* ) is necessary data.

Serial Number(\*):

BAHJ

1700218

Customer Name:

police marine 99050 port side

Customer Address:

Please confirm input code, and click OK.

OK

Please input Model Name, Serial Number and Customer Name which is described on your product.

**Model Name(\*):**

BF225AK3

(\*) is necessary data.

**Serial Number(\*):**

BAHJ

1700218

**Customer Name:**

police marine 99050 sb

**Customer Address:**

Please confirm input code, and click OK.

OK

Please input Model Name, Serial Number and Customer Name which is described on your product.

**Model Name(\*):**

(\*) is necessary data.

BF225AK3

**Serial Number(\*):**

BAHJ

1700218

**Customer Name:**

marine police 99050 port

**Customer Address:**

Please confirm input code, and click OK.

OK

1. Please check if your product connects with interface unit.
2. Please turn on power of the system.
3. Please setup Comm.Port if you are trying to communicate for the time.

## Com Port Setting

COM4

If it is connected, please click OK.

Return

OK

Product name is BF225A

# Communication with your target system has been recognized.



The Screen will be changed automatically within 3 seconds.

Next





ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

DTC **All DTC History** Data List Simple Diagnosis Function Test **Initial Setting** Onboard Snapshot Device Configuration

Reading Button

TroubleShoot

DTC Clear Button

Warning/Failure/Operational Error Name	DTC
EMT SENSOR 2 VOLTAGE HIGH	141-2

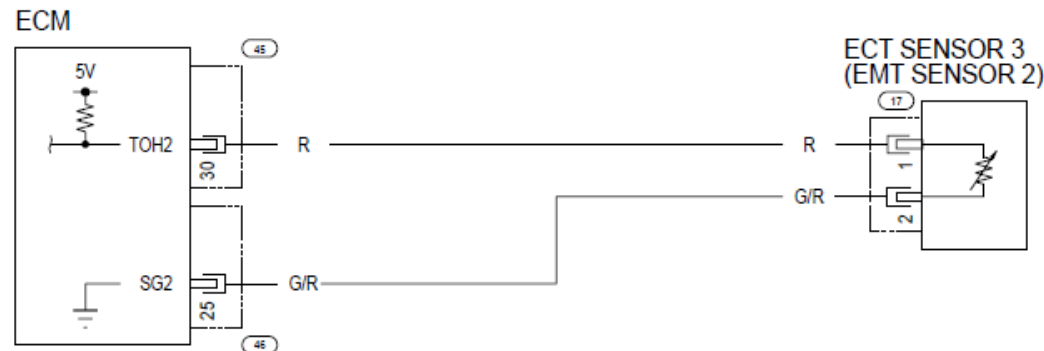
Failure Mode Description
EMT SENSOR 2 VOLTAGE HIGH - 141-2
POSSIBLE FAILURES
- Loose or poor contact on EMT sensor 2
- Open circuit in EMT sensor 2
- Open ground circuit in EMT sensor 2
- Faulty EMT sensor 2
- Faulty ECM

Selected Warning/Failure/Operational Error Detail History

EMT SENSOR 2 VOLTAGE HIGH - 141-2

Signal	Value	Unit	Threshold
DRIVE TIME	2782.0	Hour(s)	-
ENGINE SPEED	0	RPM	-
EBT SENSOR	2.89	V	0.08 - 4.92
MAP SENSOR	2.89	V	0.22 - 3.14
BARO SENSOR	2.89	V	-
HO2S	3.78	V	-
ALERT STATE	0	0=NORMAL/1=OIL PRE...	-
TP SENSOR	0.51	V	0.10 - 4.92
IGLOG	-25.0	deg	-
TARGET INJECTION TIME	0.00	ms	-
INJECTION TIME CORRECTION VALUE	1	-	-



**FUEL SYSTEM****DTC 141-1, 141-2 (ECT SENSOR 3 (EMT SENSOR 2) VOLTAGE IS TOO LOW OR TOO HIGH)**

Bl	Black	Br	Brown
Y	Yellow	O	Orange
Bu	Blue	Lb	Light blue
G	Green	Lg	Light green
R	Red	P	Pink
W	White	Gr	Gray

**DTC 141-1 (ECT SENSOR 3 (EMT SENSOR 2) VOLTAGE IS TOO LOW)****1. Symptom reproduction test**

Turn the combination switch OFF.

Disconnect the EMT sensor 2 2P connector (17), ECM connector A (45), ECM connector B (46) and then reconnect them.

Clear the DTC (page 5-7).

- Continue the procedure if the DTC does not clear.

Turn the combination switch ON.

Measure the EMT sensor 2 voltage using the HDS.

**Is the measurement within 0.08 – 4.99 V?**

**YES** – Temporary failure (code does not reappear).

**NO** – GO TO STEP 2.

## סימניות

## ENGLISH

## DTC INDEX

DTC 0-2

DTC 1-4

DTC 3-1

DTC 3-2

DTC 4-1

DTC 4-2

DTC 6-1

DTC 6-2

DTC 7-1

DTC 7-2

DTC 8-1

DTC 8-2

DTC 10-1

DTC 10-2

DTC 13-1

DTC 13-2

DTC 14-1

DTC 21-1

DTC 23-1

DTC 41-2

DTC 58-1

DTC 58-2

DTC 140-1

DTC 140-2

DTC 141-1

DTC 141-2

DTC 142-1

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

Communication Speed : 500ms  
Snap Shot Time : -

Page 1/3

Sensor Information		
Signal	Value	Unit
TP SENSOR	0.51	V
EBT SENSOR	2.89	V
IAT SENSOR	2.81	V
MAP SENSOR	2.89	V
BARO SENSOR	2.89	V
EMT SENSOR 1	2.87	V
EMT SENSOR 2	4.97	V
HO2S	3.78	V
ST FUEL TRIM	1.00	-

Voltage Information		
Signal	Value	Unit
SPARK ADVANCE	0.0	deg
BATTERY VOLTAGE	12.9	V
ALTERNATOR	0.00	V
IAC VALVE COMMAND	0.00	%
IAC VALVE	0.02	A
HO2S CUR	0.02	A

SW Information		
Signal	Value	Unit
START COUNT	2861	Time(s)
OIL PRES ALERT	6	Time(s)
ROCKER ARM CONTROL SOLENOI...	2297	Time(s)
OVERHEAT ALERT	58	Time(s)

Time Information		
Signal	Value	Unit
INJECTOR	0.00	ms
DRIVE TIME	2782.0	Hour(s)
IDLE TIME	1234.0	Hour(s)
TROLLING TIME	705.5	Hour(s)
WOT TIME	58.5	Hour(s)
PARTIAL TIME	784.0	Hour(s)
IAB TIME	191.0	Hour(s)
OVER RUN TIME	25	s
LEAN BURN TIME	381.0	Hour(s)

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

- DTC
- All DTC History
- Data List
- Simple Diagnosis
- Function Test
- Initial Setting
- Onboard Snapshot
- Device Configuration

Page 1/1

Date:

Customer:

Purchase Date:

Type:

Serial Number:

Name:

Dealer Information:

DTC:

All DTC History:

Voltage Information		
Signal	Value	Unit
BATTERY VOLTAGE	12.9	V

SW Information		
Signal	Value	Unit
START COUNT	2861	Time(s)
ROCKER ARM CONTROL SOLENOID COUNT	2297	Time(s)
OVERHEAT ALERT	58	Time(s)

Time Information		
Signal	Value	Unit
DRIVE TIME	2782.0	Hour(s)
IDLE TIME	1234.0	Hour(s)
TROLLING TIME	705.5	Hour(s)
WOT TIME	58.5	Hour(s)
PARTIAL TIME	784.0	Hour(s)
IAB TIME	191.0	Hour(s)

Revolution Information		
Signal	Value	Unit

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

DTC **All DTC History** Data List Simple Diagnosis Function Test Initial Setting Onboard Snapshot Device Configuration

Reading Button

TroubleShoot

DTC Clear Button

Warning/Failure/Operational Error Name	DTC
EMT SENSOR 1 VOLTAGE HIGH	140-2
EMT SENSOR 2 VOLTAGE HIGH	141-2

Failure Mode Description
EMT SENSOR 1 VOLTAGE HIGH - 140-2
POSSIBLE FAILURES
- Loose or poor contact on EMT sensor 1
- Open circuit in EMT sensor 1 wire
- Open ground circuit in EMT sensor 1 wire
- Faulty EMT sensor 1
- Faulty ECM

Selected Warning/Failure/Operational Error Detail History

EMT SENSOR 1 VOLTAGE HIGH - 140-2

Signal	Value	Unit	Threshold
DRIVE TIME	2782.0	Hour(s)	-
ENGINE SPEED	0	RPM	-
EBT SENSOR	2.89	V	0.08 - 4.92
MAP SENSOR	2.89	V	0.22 - 3.14
BARO SENSOR	2.89	V	-
HO2S	3.78	V	-
ALERT STATE	0	0=NORMAL/1=OIL PRE...	-
TP SENSOR	0.51	V	0.10 - 4.92
IGLOG	-25.0	deg	-
TARGET INJECTION TIME	0.00	ms	-
INJECTION TIME CORRECTION VALUE	1	-	-



ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting Onboard Snapshot Device Configuration

Reading Button

TroubleShoot

DTC Clear Button

Error History(Reverse Chronologic Order)

Latest History	2nd Newest History
EMT SENSOR 1 VOLTAGE HIGH	EMT SENSOR 2 VOLTAGE HIGH

Selected Warning/Failure/Operational Error Detail History

EMT SENSOR 1 VOLTAGE HIGH - 140-2

Signal	Value	Unit	Threshold
DRIVE TIME	2782.0	Hour(s)	-
ENGINE SPEED	0	RPM	-
EBT SENSOR	2.89	V	0.08 - 4.92
MAP SENSOR	2.89	V	0.22 - 3.14
BARO SENSOR	2.89	V	-
HO2S	3.78	V	-
ALERT STATE	0	0=NORMAL/1=OIL PRE...	-
TP SENSOR	0.51	V	0.10 - 4.92
IGLOG	-25.0	deg	-
TARGET INJECTION TIME	0.00	ms	-
INJECTION TIME CORRECTION VALUE	1	-	-

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting Onboard Snapshot Device Configuration

Communication Stop

Settings...

Communication Speed : 500ms

Snap Shot Time : --

Start Snap Shot

Graph...

ECU Reset

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Sensor Information

Signal	Value	Unit
TP SENSOR	0.51	V
EBT SENSOR	2.89	V
IAT SENSOR	2.75	V
MAP SENSOR	2.89	V
BARO SENSOR	2.89	V
EMT SENSOR 1	4.97	V
EMT SENSOR 2	4.97	V
HO2S	3.78	V
ST FUEL TRIM	1.00	-

Voltage Information

Signal	Value	Unit
SPARK ADVANCE	0.0	deg
BATTERY VOLTAGE	13.0	V
ALTERNATOR	0.00	V
IAC VALVE COMMAND	0.00	%
IAC VALVE	0.02	A
HO2S CUR	0.02	A

SW Information

Signal	Value	Unit
START COUNT	2861	Time(s)
OIL PRES ALERT	6	Time(s)
ROCKER ARM CONTROL SOLENOI...	2297	Time(s)
OVERHEAT ALERT	58	Time(s)

Time Information

Signal	Value	Unit
INJECTOR	0.00	ms
DRIVE TIME	2782.0	Hour(s)
IDLE TIME	1234.0	Hour(s)
TROLLING TIME	705.5	Hour(s)
WOT TIME	58.5	Hour(s)
PARTIAL TIME	784.0	Hour(s)
IAB TIME	191.0	Hour(s)
OVER RUN TIME	25	s
LEAN BURN TIME	381.0	Hour(s)

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

DTC All DTC History Data List Simple Diagnosis Function Test Initial Setting Onboard Snapshot Device Configuration

Communication Start

Settings...

Communication Speed : 500ms

Snap Shot Time : -

Start Snap Shot

Graph...

ECU Reset

Page 1/3

Sensor Information

Signal	Value	Unit
TP SENSOR	0.00	V
EBT SENSOR	0.00	V
IAT SENSOR	0.00	V
MAP SENSOR	0.00	V
BARO SENSOR	0.00	V
EMT SENSOR 1	0.00	V
EMT SENSOR 2	0.00	V
HO2S	0.00	V
ST FUEL TRIM	0.00	-

Voltage Information

Signal	Value	Unit
SPARK ADVANCE	0.0	deg
BATTERY VOLTAGE	0.0	V
ALTERNATOR	0.00	V
IAC VALVE COMMAND	0.00	%
IAC VALVE	0.00	A
HO2S CUR	0.00	A

SW Information

Signal	Value	Unit
START COUNT	0	Time(s)
OIL PRES ALERT	0	Time(s)
ROCKER ARM CONTROL SOLENOI...	0	Time(s)
OVERHEAT ALERT	0	Time(s)

Time Information

Signal	Value	Unit
INJECTOR	0.00	ms
DRIVE TIME	0.0	Hour(s)
IDLE TIME	0.0	Hour(s)
TROLLING TIME	0.0	Hour(s)
WOT TIME	0.0	Hour(s)
PARTIAL TIME	0.0	Hour(s)
IAB TIME	0.0	Hour(s)
OVER RUN TIME	0	s
LEAN BURN TIME	0.0	Hour(s)

ENGINE SPEED  RPM

DRIVE TIME  Hour(s)

- DTC
- All DTC History
- Data List
- Simple Diagnosis
- Function Test
- Initial Setting
- Onboard Snapshot
- Device Configuration

Page 1/1

Date:

Customer:

Purchase Date:

Type:

Serial Number:

Name:

Dealer Information:

DTC:

All DTC History:

Voltage Information		
Signal	Value	Unit
BATTERY VOLTAGE	12.9	V

SW Information		
Signal	Value	Unit
START COUNT	2861	Time(s)
ROCKER ARM CONTROL SOLENOID COUNT	2297	Time(s)
OVERHEAT ALERT	58	Time(s)

Time Information		
Signal	Value	Unit
DRIVE TIME	2782.0	Hour(s)
IDLE TIME	1234.0	Hour(s)
TROLLING TIME	705.5	Hour(s)
WOT TIME	58.5	Hour(s)
PARTIAL TIME	784.0	Hour(s)
IAB TIME	191.0	Hour(s)

Revolution Information		
Signal	Value	Unit



## Service Report

### SIMPLE DIAGNOSIS

User Name : police marine 99050 sb

Model : BF225A

Serial Number : BAHJ1700218

Purchase Date : 2016.11.17

#### Voltage Information :

BATTERY VOLTAGE : 12.9 V

#### SW Information :

START COUNT : 2861 Time(s)

ROCKER ARM CONTROL SOLENOID

COUNT : 2297 Time(s)

OVERHEAT ALERT : 58 Time(s)

#### Time Information :

DRIVE TIME : 2782.0 Hour(s)

IDLE TIME : 1234.0 Hour(s)

TROLLING TIME : 705.5 Hour(s)

WOT TIME : 58.5 Hour(s)

PARTIAL TIME : 784.0 Hour(s)

IAB TIME : 191.0 Hour(s)

#### Revolution Information :

ENGINE SPEED : 0 RPM

#### Other Information :

Total number of DTC : 0

Latest All History : EMT SENSOR 1 VOLTAGE HIGH - 140-2

Stored Filename : 161117\_102632\_SERVICEREPORT\_SIMPLE  
DIAGNOSIS\_01\_BF225A\_BAHJ1700218.jpg

Dealer Name : mct

Date : 2016.11.17

Service Manager :

Dr.H Search File

Model	Mode	Category	Serial Number	
+ BF225A	ALL DTC HISTORY	Ou...	BAHJ1700218	16
+ BF225A	DATA LIST	Ou...	BAHJ1700218	16
- BF225A	DTC	Ou...	BAHJ1700218	16
	10:07:34			
	10:11:14			
	10:11:50			
	10:13:01			
	10:14:48			
	10:15:13			
	10:20:01			
	10:22:53			
+ BF225A	ONBOARD...	Ou...	BAHJ1700218	16
+ BF225A	SIMPLE DIAGNOSIS	Ou...	BAHJ1700218	16
+ BF225A	SIMPLE DIAGNOSIS	Ou...	BAHJ1700218	16

Model: ANY

Category: Outboard Motor

Serial Number: ANY

Mode: BAHJ1700218

Date (Saved): ANY



HONDA

DTC

All DTC History

Data List

Simple Diagnosis

Function Test

Initial Setting

Onboard Snapshot

Device Co

Reading Button

TroubleShoot

Save

## Error History(Reverse Chronologic Order)

Latest History

EMT SENSOR 2 VOLTAGE HIGH

## Selected Warning/Failure/Operational Error Detail History

## EMT SENSOR 2 VOLTAGE HIGH - 141-2

Signal	Value	Unit	Threshold
DRIVE TIME	2782.0	Hour(s)	-
ENGINE SPEED	0	RPM	-
EBT SENSOR	2.89	V	0.08 - 4.92
MAP SENSOR	2.89	V	0.22 - 3.14
BARO SENSOR	2.89	V	-
HO2S	3.78	V	-
ALERT STATE	0	0=NORMAL/1=OIL PRE...	-
TP SENSOR	0.51	V	0.10 - 4.92
IGLOG	-25.0	deg	-
TARGET INJECTION TIME	0.00	ms	-
INJECTION TIME CORRECTION VALUE	1	-	-