

## Crankshaft Impulse Sensor, Petrol

**Note:** This operation does not apply to F4R engines.

### Objective:

Checking Operation of the impulse sensor on the crankshaft.

### Measurement:

Plot of voltage at the signal output for the impulse sensor on the crankshaft.

### Preparation:

Switch off the engine and ignition.

### Connections:

INPUT A	COM/TRIGGER	INPUT B
Connect the red measurement lead and the ground lead to the plug connector for the impulse sensor on the crankshaft to the terminals according to the table below.		

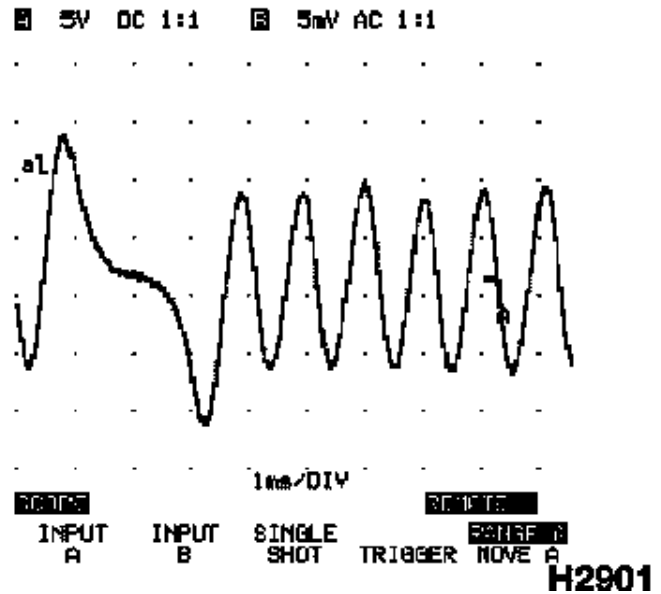
Engine	Red measurement lead	Black ground lead
Y22SE (Frontera)	GN	BU
Y26SE	GN	GYBK
Y32SE	GN	GYBK
Y25DT	YE	BK
Other engines	GYRD	GYBK

### Procedure Tech 31:

1. Download the Reference curve.
2. Start the engine and allow it to idle.

### Reference Curve:





The change in the inductive voltage at the tooth gap of the crankshaft gear can sometimes be so small, that the signal cannot be triggered. In the event of this, the signal plot jumps on the display. However, longer observation of the display allows for the recognition of the impulse resulting from the tooth gap.

The signal plot should be continuous and regular. If the amplitude of the signal plot varies greatly, in spite of the engine speed remaining constant, the crankshaft gear must be checked for soiling and concentricity.

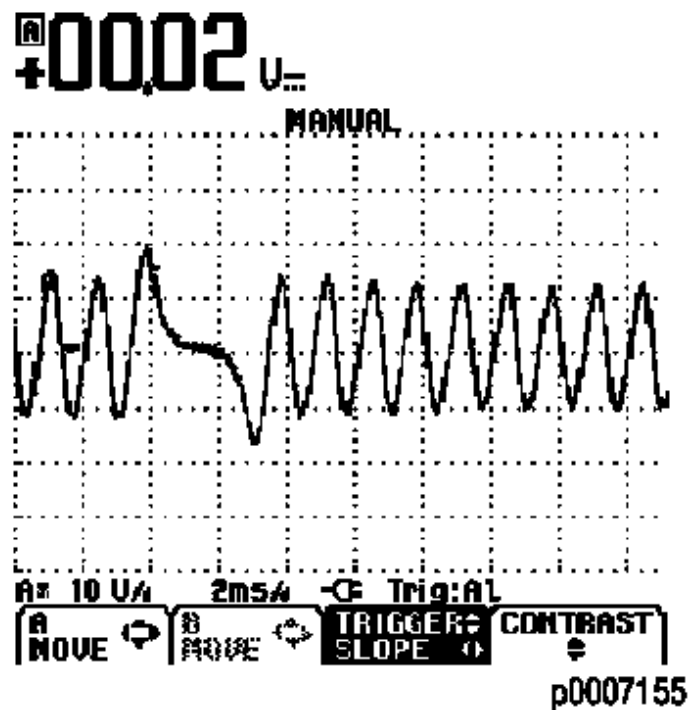
#### Procedure Tech 32:

1. Download Setup file (the Tech 32 uses only Setup files, no reference curves).
2. Start engine and allow it to idle.



Setup File: **tech32**

Reference Curve:



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