

MAP Sensor Waveform Test

Meets NATEF Task: (A8-B-7) Inspect and test sensors, actuators, and circuits using a graphing multimeter (GMM)/digital storage oscilloscope (DSO); perform necessary action. (P-2)

Make/Model/Year VIN Evaluation: 4 3 2 Image: Constraint of the service information regarding the location of the MAP sensor used on the vehicle being tested. Location (describe):	Name					Date _			Time o	on Task	۲ <u> </u>		
vehicle being tested. Location (describe):	Make/Model/Year _				VI	N			Eval	luation	: 4	3	2
2. Check service information for the wire colors used and their purpose. Wire 1 (color and purpose): Wire 2 (color and purpose): Wire 3 (color and purpose): Wire 3 (color and purpose):				ation	regard	ing the	e locati	on of	the MA	P senso	r useo	d on	the
Wire 1 (color and purpose): Wire 2 (color and purpose): Wire 3 (color and purpose): $\underbrace{\underbrace{10 \text{ maddiv } x2 \text{ A 6 } \text{ OC } \text{ off } \text{ B off } \text{ A C } \text{ off } \text{ f } \text$	Locat	ion (de	escribe	e):									
Wire 2 (color and purpose): Wire 3 (color and purpose):	2. Check serv	vice in	forma	tion fo	or the w	ire col	ors use	d and 1	their pur	pose.			
Wire 3 (color and purpose): \$.0 \$.4 4.8 4.2 3.6 3.0 2.4 1.8 1.2 0.6	Wire 1 (color	and p	urpose	e):									
Wire 3 (color and purpose): 10 ms/div x2 A6 DC off Boff AC off	Wire 2 (color	and p	urpose	e):									
6.0 5.4 4.8 4.2 3.6 3.0 2.4 1.8 1.2 0.6	Wire 3 (color	and n	urnose										
6.0 5.4 4.8 4.2 3.6 3.0 2.4 1.8 1.2 0.6		unu p	urpost		· · · · · · · · · · ·								
5.4 4.8 4.2 3.6 3.0 2.4 1.8 1.2 0.6		X 10 ms	/div •	×2 • A	6 💌	DC • O	f • B Off	• /	AC • Off •				
4.8 4.2 3.6 3.0 2.4 1.8 1.2 0.6	6.0												
4.2 3.6 3.0 2.4 1.8 1.2 0.6						_							
3.6 3.0 2.4 1.8 1.2 0.6									1				
2.4 1.8 1.2 0.6						1							
1.8 1.2 0.6	3.0												
1.2 0.6	2.4												
0.6													
	24,000			11111									
0.0 5 10 15 20 25 30 35 40 45 50	8. Y 121										-ms		
ch A: Frequency (Hz) 109.2 MAP Sensor (Digital)	0.0	5	10		requency (H	Iz]	11		40	45	50		

- 4. Following the test equipment manufacturer's instructions, show the instructor the waveforms. Instructor OK _____
- **5.** Based on the comparison between the captured waveform and the specified waveform, what action is needed?