

# Fi Diagnostic Tool Operation Instructions Part No. 3620A-LEB2-E00



19

## KEY FUNCTION

- |                                |               |
|--------------------------------|---------------|
| 1 Model No.                    | 8 DATAAnalyze |
| 2 Down Button                  | 9 DTC Inspect |
| 3 DTC indicator(Failure codes) | ⑩ ECU Version |
| ④ Enter or Exit                |               |
| 5 Power indicator              |               |
| 6 UPButton                     |               |
| 7 COAdjust                     |               |

# 19. Fi DIAGNOSTIC TOOL OPERATION Movie S 125i

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Data Analysis .....	19-6		

# 19. Fi DIAGNOSTIC TOOL OPERATION Movie S 125i

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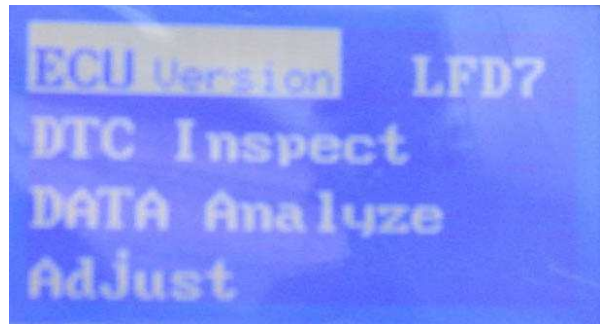
## DTC INSPECTION PROCEDURE

Connect Fi diagnostic tool with the connector of harness wire located beside the Battery.

Diagnostic Tool Connector



Press the "Enter" button

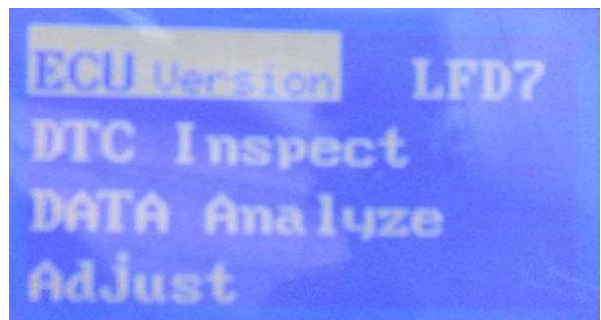


Check the software version

Press the "Enter" button and then turn to the first page.



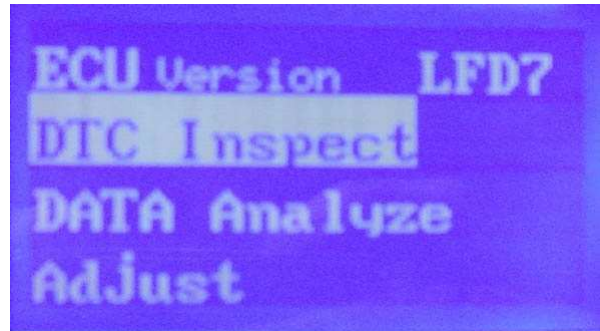
Press the "Down" button to enter the DTC Inspect.



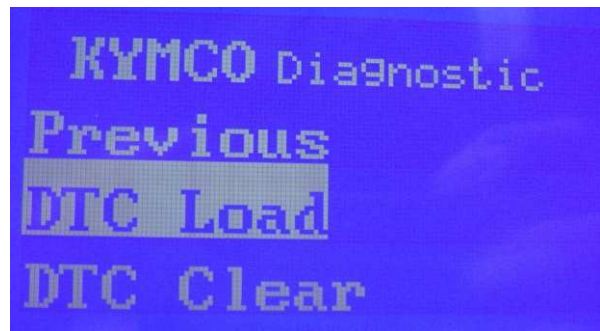
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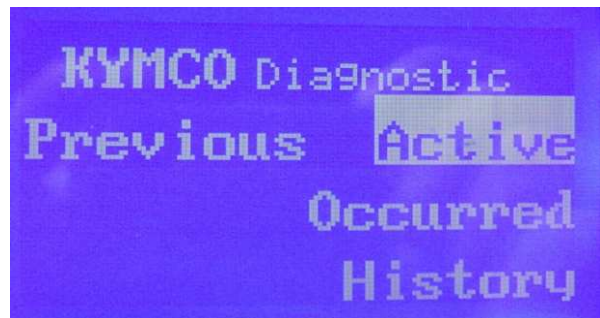
Press the " Enter " button to check the DTC number



Press the " Enter " button

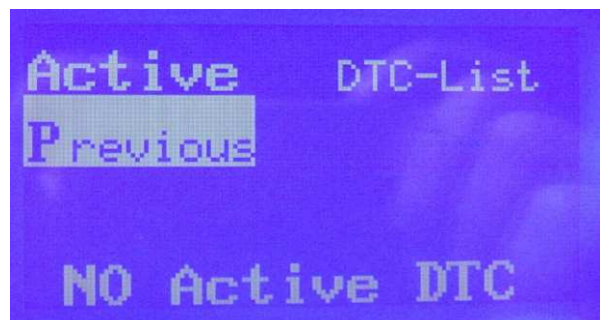


Press the " Enter " button



Display what's DTC number on this DTC-List.  
Refer to DTC summary list on chapter 5.

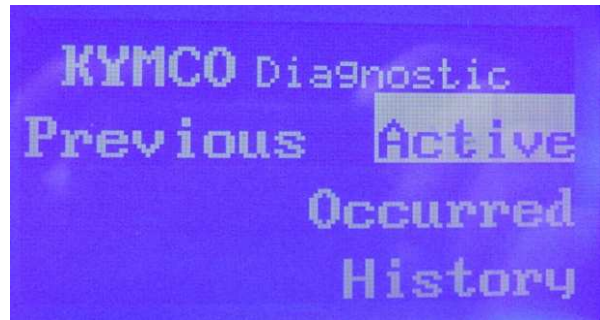
Press the " Enter " button and then turn to the  
previous page



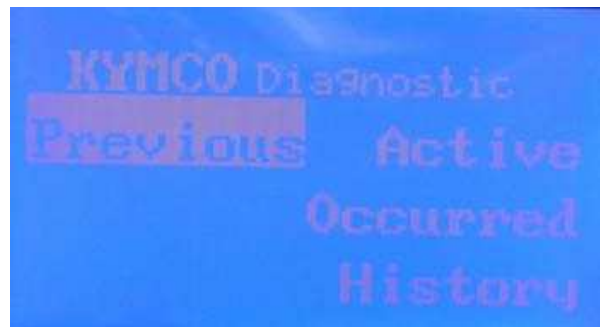
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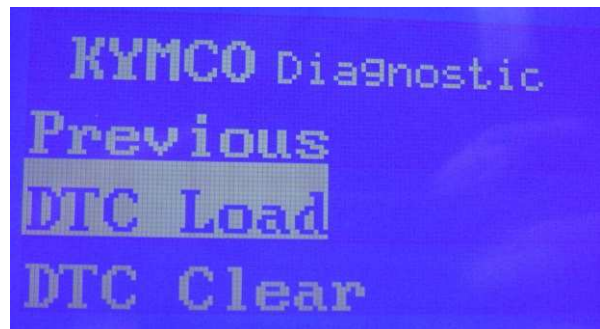
Press the "UP" button



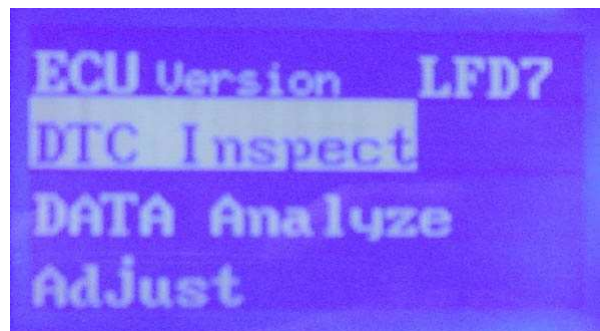
Press the "Enter" button and then turn to the previous page.



Press the "UP" button



Press the "Enter" button and then turn to the first page.



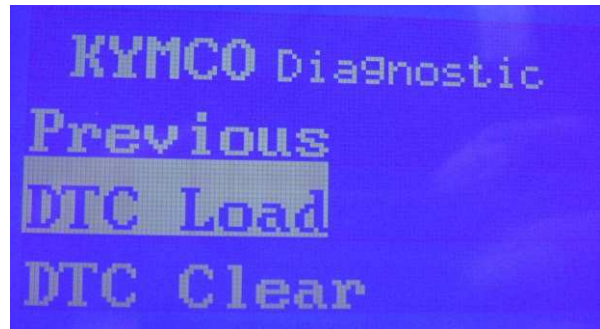
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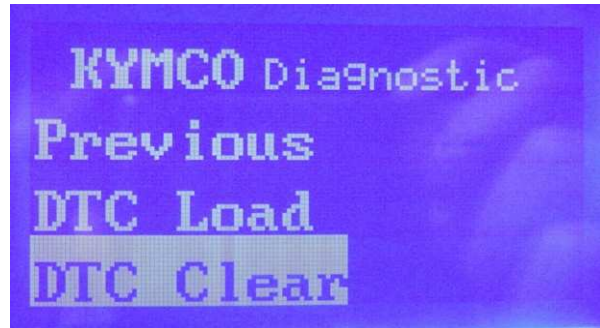
## DTC CLEAR PROCEDURE

Choose "Load DTC"

Press the "Down" button



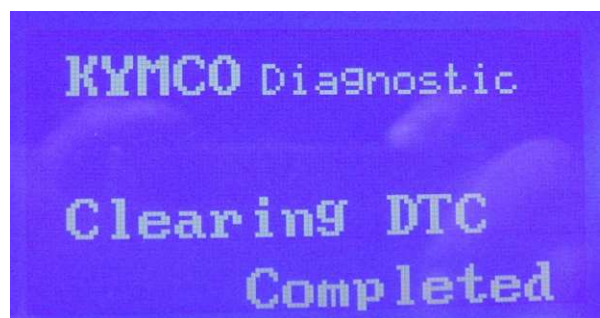
Press the "Enter" button



The DTC indicator is lighting at that time.



Clearing DTC completed until the DTC indicator is off.



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## DATA ANALYSIS

Choose "Data Analyze"

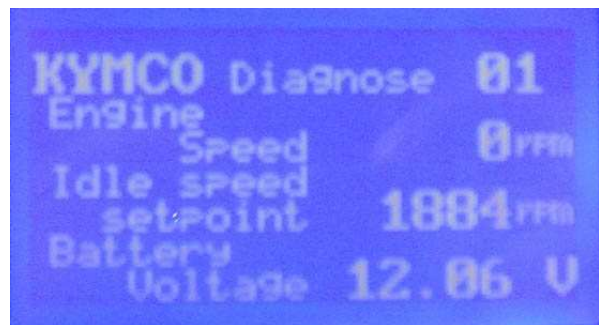
Press the "Enter" button to enter page 01.



The figure includes engine speed, idle speed setpoint and battery voltage.

Refer to standard specifications on page 19-8.

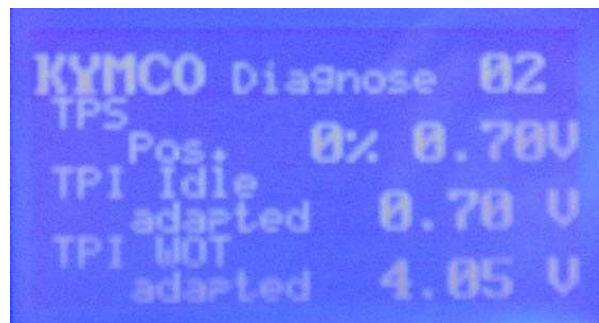
Press the "Down" button to enter page 02.



The figure includes TPS position, TPI idle adapted voltage and TPI WOT adapted (Throttle grip fully opened).

Refer to standard specifications on page 19-8.

Press the "Down" button to enter page 03.



The figure includes engine working temperature, atmosphere pressure and manifold pressure.

Refer to standard specifications on page 19-8.

Press the "Down" button to enter page 04.



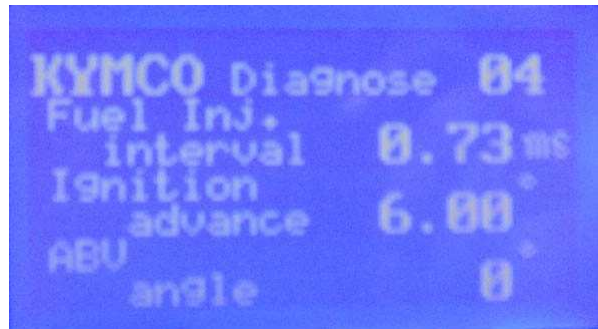
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The figure includes fuel injector interval, ignition advance angle and ABV angle.

Refer to standard specifications on page 19-8.

Press the " Down " button to enter page 05.



The figure includes O2 sensor voltage, O2 heater working condition and ABV adaptation opening angle.

Refer to standard specifications on page 19-8.

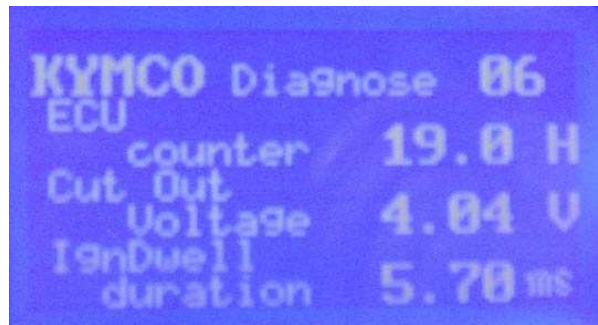
Press the " Down " button to enter page 06.



The figure includes ECU counter hours, Tilt voltage and Ignition charging time.

Refer to standard specifications on page 19-8.

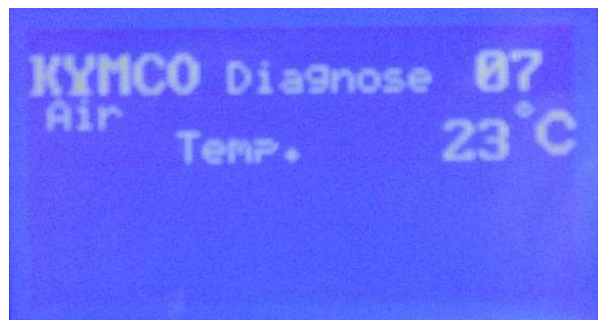
Press the " Down " button to enter page 07.



The figure includes air temperature.

Refer to standard specifications on page 19-8.

Press the " UP " button to the first page.





# 光陽機車 KYMCO Diagnostic Report GP 125 FI

SF :  
Date of  
production

Customer :  
Date of  
repair :

Eng.Num :  
Mileage :

Reason of repair:  maintenance  breakdown

Item		Date	Reference	Memo
ECU Version	ECU No			
	Hardware Ver			
	Software Ver			
	Calibration Ver			
	Model Name			
DTC	Active			
	Occurred			
	History			
(Cool Engine) EngineStop	Air Temp.(°C)		environ.temp ± 2 °C	
	Engine Temp.(Coiling)		environ.temp ± 2 °C	
	Atom. Pressure(Kpa)		101.3 ± 2 kPa	
	Throttle Position(%)		0	
	TPI Idle Mean (V)		0.68 ± 0.05 / 0%	
	TPI Wot Mean (V)		4.0 ± 0.1 / 100%	
	Battery Volt (V)		>12 V	
	Transducer power supply volt (V)		5 ± 0.2 V	
	Idle speed setpoint (rpm)		---	
	ABVOnTimeOfs (ms)		---	
	AirflowAdapOfs (g/s)		---	
	Manual TPI initialisation			
	Cut Out switch volt (V)		3.5 ~ 4.7v	
	Accumulated eng. run time (hr)		---	
(Hot Engine) BeforeRepair	EngineSpeed IDLE(rpm)		1800 ± 100 rpm	
	MAPSample (kPa)		42 ~ 51 kpa	
	Injection duration (ms)		2.5 ~ 3.5 ms	
	Ign. Advance (°)		10 ~ 14 BTDC	
	Ign.Dwell duration (ms)		2.0 ~ 2.2 ms	
	Air Temp.(°C)		environ.temp ±2 °C	
	Engine Temp. (°C)		environ.temp ±2 °C	
	IDLE CO(%) )		1.8 ~ 2.8%	
	COFPC		---	
	ABVAngDurMech (°)		< 140°	
(Hot Engine) AfterRepair	EngineSpeed IDLE(rpm)		1800 ± 100 rpm	
	MAPSample (kPa)		42 ~ 51 kpa	
	Injection duration (ms)		2.5 ~ 3.5 ms	
	Ign. Advance (°)		10 ~ 14 BTDC	
	Ign.Dwell duration (ms)		2.0 ~ 2.2 ms	
	Air Temp.(°C)		environ.temp ±2 °C	
	Engine Temp. (°C)		environ.temp ±2 °C	
	IDLE CO(%) )		1.8 ~ 2.8%	
	COFPC		---	
	ABVAngDurMech (°)		< 140°	

Repair description	Repair Process
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