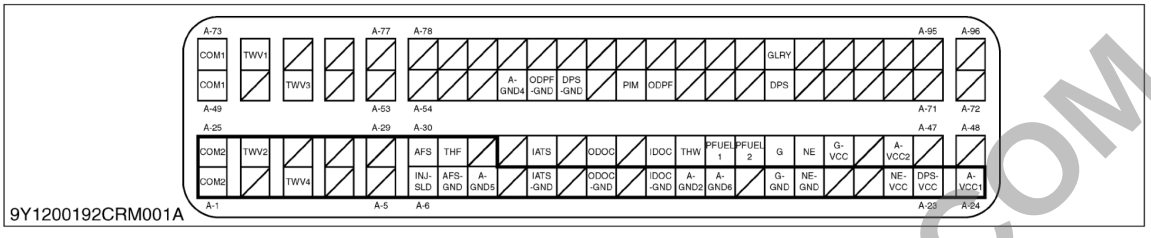
[6] ECU TERMINAL LAYOUT

(1) ECU Terminal Layout 1 (A: 96 Pins)



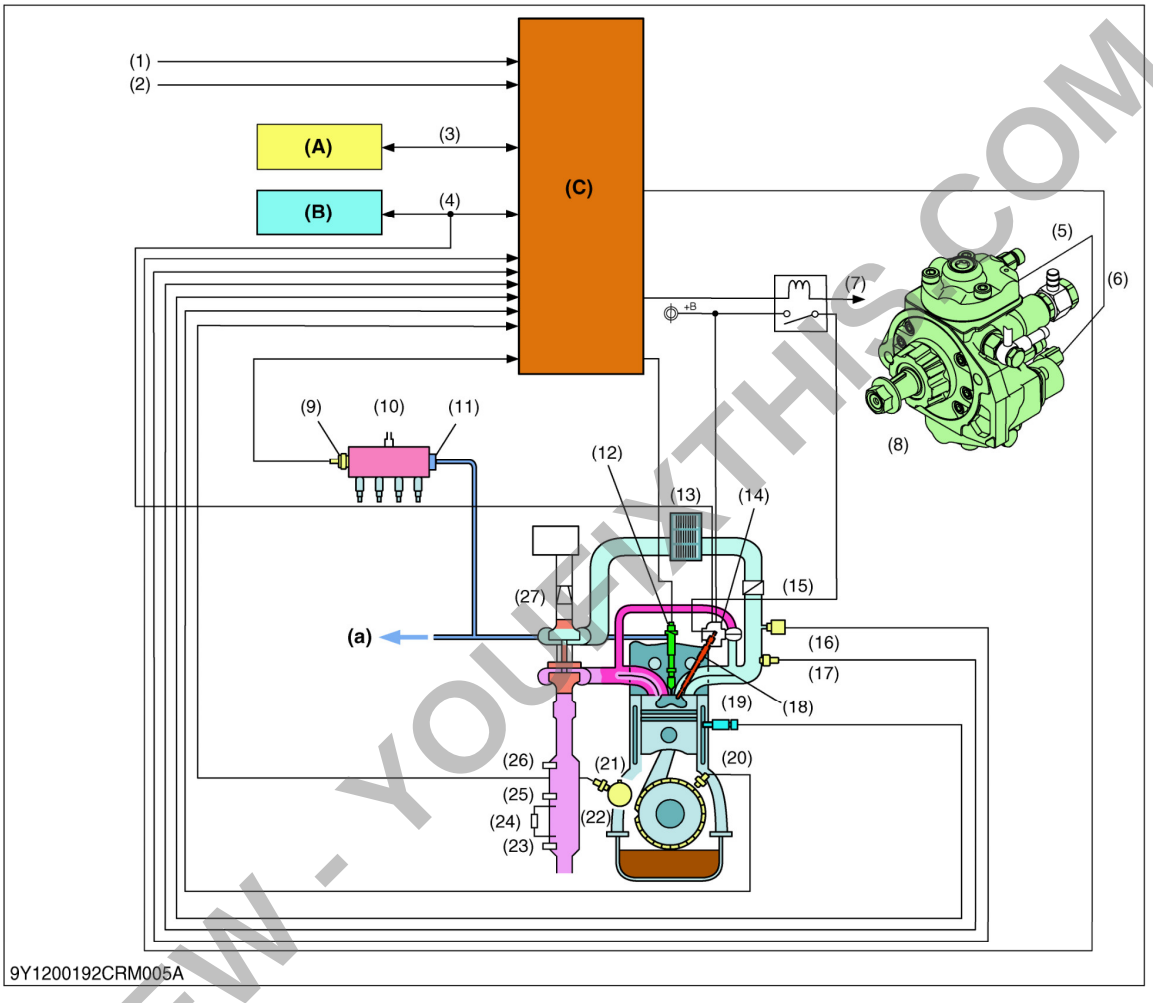
No.	Terminal Name	Signal Name
A-1	COM2	INJ COMMON2
A-2	–	–
A-3	TWV4	INJ4 DRV TWV4
A-4	–	–
A-5	–	–
A-6	INJ-SLD	SHILD-GND
A-7	AFS-GND	AIR FLOW SENSOR GND
A-8	A-GND5	FUEL TEMPERATURE SENSOR GND
A-9	–	–
A-10	IATS-GND	INTAKE AIR TEMPERATURE SENSOR (AFS) GND
A-11	–	–
A-12	ODOC-GND	OUTLET DOC TEMP GND (EXHAUST GAS TEMPERATURE T1 GND)
A-13	–	–
A-14	IDOC-GND	INLET DOC TEMP GND (EXHAUST GAS TEMPERATURE T0 GND)
A-15	A-GND2	COOLANT TEMPERATURE SENSOR GND
A-16	A-GND6	RAIL PRESSURE SENSOR GND
A-17	–	–
A-18	G-GND	CAMSHAFT POSITION SENSOR GND
A-19	NE-GND	CRANKSHAFT POSITION SENSOR GND
A-20	–	–
A-21	–	–
A-22	NE-VCC	CRANKSHAFT POSITION SENSOR VCC
A-23	DPS-VCC	DIFFERENTIAL PRESSURE SENSOR VCC
A-24	A-VCC1	RAIL PRESSURE SENSOR VCC
A-25	COM2	INJ COMMON2
A-26	TWV2	INJ2 DRV TWV2
A-27	–	–
A-28	–	–
A-29	–	–
A-30	AFS	AIR FLOW SENSOR
A-31	THF	FUEL TEMPERATURE SENSOR
A-32	–	–

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. BASIC SYSTEM INFORMATION

[1] SYSTEM CONFIGURATION



(1) Key Switch ON Signal
(2) Starter Switch Signal
(3) CAN Communication for tractor (Accelerator Position Signal*, Neutral Switch*, Machine Travel Speed Signal*)
(4) CAN Communication for Service
(5) Fuel Temperature Sensor
(6) SCV (Suction Control Valve)
(7) Glow Relay
(8) Supply Pump
(9) Rail Pressure Sensor
(10) Rail
(11) Pressure Limiter
(12) Injector
(13) Inter Cooler
(14) EGR DC Motor
(15) Intake Throttle Valve
(16) Boost Pressure Sensor
(17) Intake Air Temperature Sensor
(18) Glow Plug
(19) Coolant Temperature Sensor
(20) Crankshaft Position Sensor
(21) Camshaft Position Sensor
(22) Diesel Particulate Filter (Hereinafter Referred To As The "DPF") Muffler
(23) Exhaust Gas Temperature Sensor2 (T2) (DPF Outlet Exhaust Gas Temperature)
(24) Differential Pressure Sensor (DPF Differential Pressure) (ΔP)
(25) Exhaust Gas Temperature Sensor1 (T1) (DPF Inlet Exhaust Gas Temperature)
(26) Exhaust Gas Temperature Sensor0 (T0) (DOC Inlet Exhaust Gas Temperature)
(27) Mass Air Flow Sensor

(A) CAN2 Connector (For Tractor)
(B) CAN1 Connector (For Service)
(C) Engine ECU
(a) To Fuel Tank

■ **NOTE**
- **The signals marked with * are CAN communication.**

9Y1200186CRM0001US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

5. DIAGNOSTIC PROCEDURE BY DTC

[1] DTC LIST

Name		NE-G phase shift
ISO 14229 P-Code		P0016
J1939-73	SPN	636
	FMI	7
DTC Name		NE-G phase shift
Management Unit for Detected Part		NEGUM
Detection item		• Large phase shift between NE (crankshaft position sensor) pulse and G (camshaft position sensor) pulse
DTC Set Preconditions		• Engine is operating above low idle speed • Battery voltage is normal • Sensor supply voltage VCC# is normal • NE signal is normal • G signal is normal • Coolant temperature is 10 °C (50 °F) or higher
DTC set parameter		(Approximate) • Phase difference between NE pulse and G pulse is within ±0.26 rad (±15 °)
Time to action or number of error detection		• 10 times or more
System Action		• None
Behaviour During Malfunction		(Invalid G signal) • Engine hesitates at start-up
Engine Warning Light		• ON
Recovery from error		• Diagnostic counter =zero

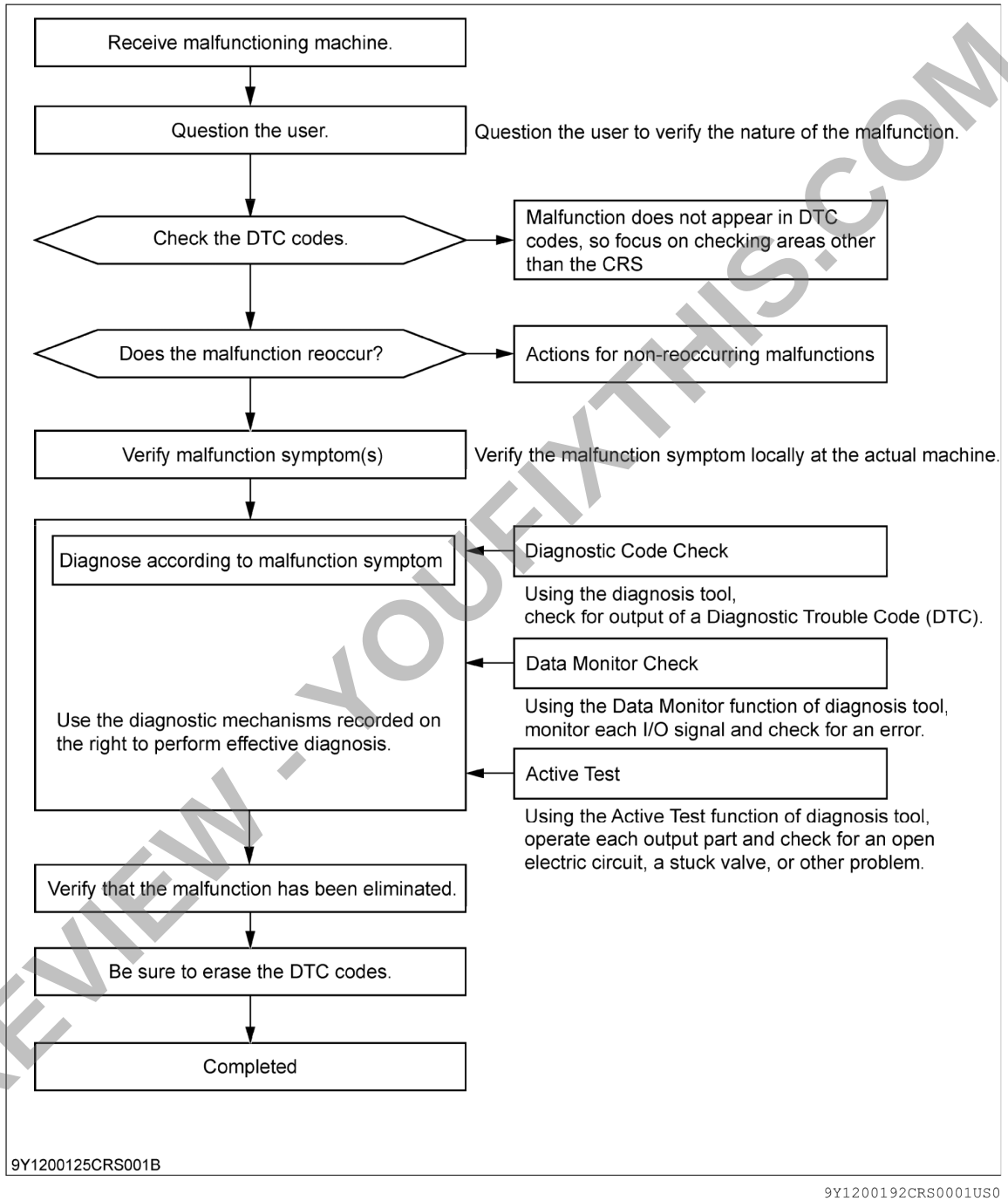
9Y1200192CRS0607US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. GENERAL

[1] OVERALL DIAGNOSTIC PROCEDURE



9Y1200192CRS0001US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[2] DIAGNOSIS BY MALFUNCTION SYMPTOM

(1) Engine Warning Light Comes On

1. Turn the key switch ON and check that the fuel feed pump is operating. If it is not operating, check in accordance with "6.[2] FUEL SYSTEM INSPECTION PROCEDURE - 5. Check the Fuel Feed Pump".(Refer to page 1-S279)
2. Connect diagnosis tool and read DTC. Refer to pertinent DTC diagnosis guidelines and implement diagnosis.

9Y1200186CRS0001US0

(2) Engine Does Not Start

Possible causes:

1. Fuel feed pump operation fault
2. Starting assist device (glow plug)
   - Applicable only when the temperature is low: −10 °C (14 °F) or less
   - Refer to the workshop manual for the machine and check the glow plug, relay and related wiring harness

***Refer to the previous "List of malfunction causes by symptom" for the subsequent details.**

3. Engine fault
   - Low compression pressure
   - Engine internal fault
   - Valve timing fault
4. Control system
   - Damage to the pulsar gear of the crankshaft position sensor
   - Air gap of the crankshaft position sensor is large
   - Damage to the pulsar gear of the camshaft position sensor
   - SCV operation fault
   - Main relay malfunction
5. Engine electrical system
   - Battery fault
   - Charging system malfunction
   - Starter relay malfunction
6. Intake system
   - Glow relay fault
   - Glow plug fault
7. Fuel system
   - Fuel quality
   - Fuel filter clogging
   - Fuel pressure limiter fault
   - Fuel line clogging, leak
8. CRS (including the wiring harness)
   - Power supply system
   - Output system (supply pump, injector and common rail)
   - Input system (sensors and switches)
   - ECU
9. Others
   - Large amount of drag (including the brakes, etc.)

9Y1200186CRS0105US0



1. Check the Fuel Feed Pump Operation

1. Turn the key switch ON and check that the fuel feed pump is operating.

Factory specification	Operates when the key switch is turned ON.

OK	Go to "2. Check the DTC".
NG	Check in accordance with "6.[2] FUEL SYSTEM INSPECTION PROCEDURE - 5. Check the Fuel Feed Pump". (Refer to page 1-S279)

(1) Fuel Feed Pump

9Y1200186CRS0002US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. SAFETY FIRST

⚠ SAFETY FIRST

- **This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.**
- **It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.**

⚠ DANGER
- **Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.**

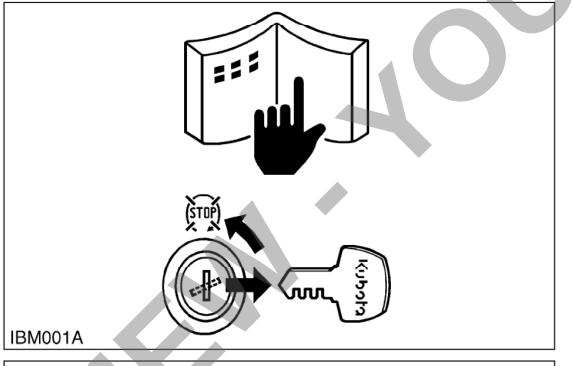
⚠ WARNING
- **Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.**

⚠ CAUTION
- **Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.**

■ IMPORTANT
- **Indicates that equipment or property damage could result if instructions are not followed.**

■ NOTE
- **Gives helpful information.**

9Y1200192INI0001US0



IBM001A


IBM011A

BEFORE SERVICING AND REPAIRING

- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground.
- Allow the engine to cool before proceeding.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a **"DO NOT OPERATE"**tag in operator station.

9Y1200192INI0002US0

SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Unauthorized modifications to the engine may impair the function and / or safety and affect engine life.

9Y1200192INI0003US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MECHANISM

CONTENTS

1. BASIC SYSTEM INFORMATION 1-M1
   [1] SYSTEM CONFIGURATION 1-M1
   [2] FUEL SYSTEM 1-M2
   [3] INTAKE AND EXHAUST SYSTEM 1-M3
   [4] WIRING DIAGRAM 1-M4
      (1) System Wiring Diagram 1-M4
   [5] AVAILABLE DATA MONITOR SIGNALS (LEVEL 2) 1-M5
      (1) Monitor Items 1-M5
      (2) Normal Value 1-M8
   [6] ECU TERMINAL LAYOUT 1-M11
      (1) ECU Terminal Layout 1 (A: 96 Pins) 1-M11
      (2) ECU Terminal Layout 2 (B: 58 Pins) 1-M14

PREVIEW - YOUFIXTHIS.COM

KiSC issued 05, 2012 A

Download full manual at youfixthis.com

(2) Normal Value

Classification		Signal Name	Unit	Engine Stops	During Start-Up	Idling	During Acceleration	During No-load Maximum Speed
Input	Pulse / Rotary signal	Engine speed	min^{-1} (rpm)	0	0 → 800 to 850 (Ordinary temperature)	800 to 850 (After warm-up)	825 → 2400	2350 to 2400 (After warm-up)
		Engine speed active flag	–	OFF	ON	ON	ON	ON
		Cam speed active flag	–	OFF	ON	ON	ON	ON
		Machine speed	km/h	Sensor unused by CAN input				
	Analog signal	Final accelerator pedal position opening	%	0	0	0	0 → 100	100
		Accelerator pedal position sensor 1 output voltage	V	Sensor unused by CAN input				
		Accelerator pedal position sensor 2 output voltage	V					
		Boost pressure	kPa	Approx. 100	Approx. 100	Approx. 100	–	–
		Boost pressure sensor output voltage	V	Approx. 1.0	Approx. 1.0	Approx. 1.0	–	–
		Fuel temperature	°C	Representative value: Approx. 20 °C (68 °F) → Approx. 2.4 V Representative value: Approx. 40 °C (104 °F) → Approx. 1.5 V				
		Fuel temperature sensor output voltage	V					
		Coolant temperature	°C	Representative value: Approx. 20 °C (68 °F) → Approx. 2.4 V Representative value: Approx. 80 °C (176 °F) → Approx. 0.5 V				
		Coolant temperature sensor voltage output	V					
		Intake air temperature	°C	Representative value: Approx. 20 °C (68 °F) → Approx. 2.4 V Representative value: Approx. 40 °C (104 °F) → Approx. 1.5 V				
		Intake air temperature sensor output voltage	V					
		Atmospheric pressure	kPa	Representative value: Approx. 100 kPa → 3.7 V (Depending on the atmospheric pressure)				
		Atmospheric pressure sensor output voltage	V					
		Battery voltage	V	When stopped: Approx. 12.5 V When operating: Approx. 14 V (Depends on the battery charging condition, whether or not there is a load voltage, rotation speed)				
	Digital signal	Key Switch	–	ON	ON	ON	ON	ON
		Start switch	–	OFF	ON	OFF	OFF	OFF
		Neutral switch	–	Sensor unused by CAN input				

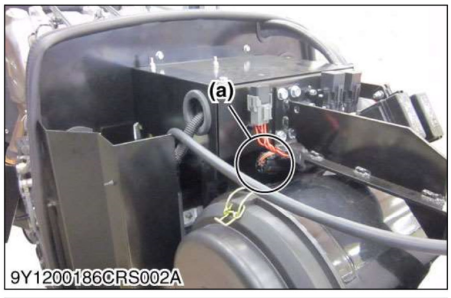
9Y1200186CRM0008US0

PREVIEW - YOUFIXTHIS.COM

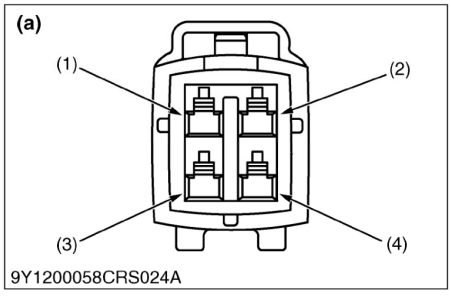
Download full manual at youfixthis.com

2. DIAGNOSTIC TOOL CONNECTION PROCEDURE

[1] DIAGNOSTIC CONNECTOR POSITIONS



9Y1200186CRS002A



9Y1200058CRS024A

1. The CAN1 connector **(a)** for connecting the diagnostic tool is in the position shown in the figure.

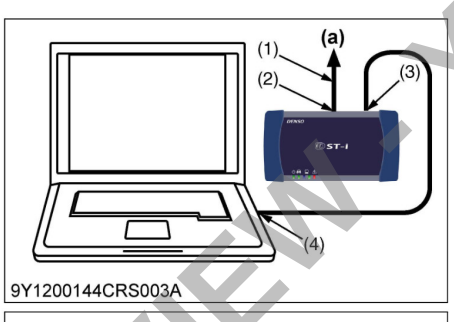
(1) Terminal IG-SW (B-47, B-48)
(2) Terminal CAN1-H (B-51)
(3) Terminal S-GND (B-1, B-2)
(4) Terminal CAN1-L (B-52)
(a) CAN1 Connector

9Y1200186CRS0139US0

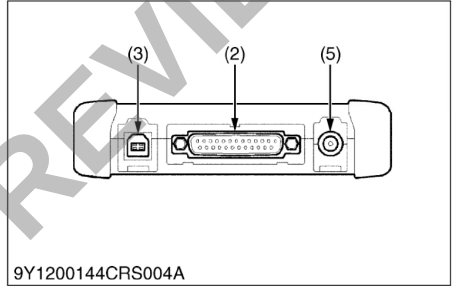
[2] DIAGNOSTIC TOOL CONNECTION PROCEDURE

■ **IMPORTANT**
- **At first time usage, it is necessary to do "Communication Setting" with administrator user account.**
- **Prepare a PC on which the diagnostic software has already been installed.**
- **When connecting the diagnosis cable, ensure that the key switch on the machine side is OFF.**

9Y1200192CRS0011US0



9Y1200144CRS003A



9Y1200144CRS004A

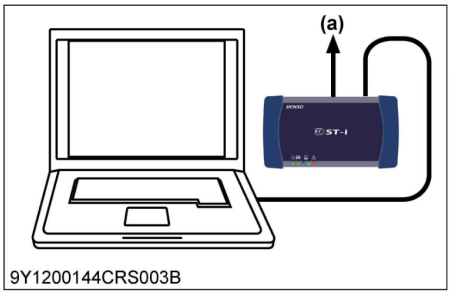
1. Start up a PC on which the diagnostic software has been installed with administrator user account.
2. Connect the machine-side CAN1 connector **(a)** to the interface connector (To Machine) (2) with the cable (To Machine) (1).
3. Connect the cable (USB) (4) to the USB connector (To PC) (3) and then connect the USB cable to the USB port on PC.
4. Start the diagnostic software.
5. Select "Communication Setting" from "System Setting" in the menu and execute. (Only when performing the initial settings.)

■ **NOTE**
- **The USB port used while the "Communication Setting" process, should always be used.**

(1) Cable (To Machine)
(2) Interface Connector (To Machine)
(3) USB Connector (To PC)*
(4) Cable (USB)
(5) DC Jack (Reserved)*
(a) CAN1 Connector
* Rubber cap is attached to USB connector and DC jack each

9Y1200192CRS0012US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com



9Y1200144CRS003B

10. Check the Data Related to Pressure Control

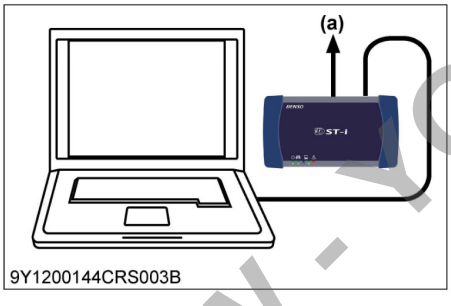
1. Measure the "Target rail pressure" and "Actual rail pressure" when accelerator is operated as indicated below using the diagnosis tool data monitor function.

Factory specification	The "Actual rail pressure" always follow to the "Target rail pressure". 1. When idling: 40 to 50 MPa (410 to 500 kgf/cm^2, 5800 to 7200 psi) 2. Accelerator opening 0 → 100 % (During acceleration): Maximum value 95.0 to 130 MPa (969 to 1320 kgf/cm^2, 13800 to 18800 psi) 3. No-load maximum speed: 95.0 to 115 MPa (969 to 1170 kgf/cm^2, 13800 to 16600 psi) 4. The numerical value is stable under normal operating and the target value corresponds with actual pressure value.

OK	Go to "11. Check the Injector (Including the Pipes, etc.)".
NG	**(Check the trouble related to pressure** Refer to the pressure system items (P0087, P0088, P0089 and P0093 (Refer to page 1-S122)) and SCV abnormality items (P0628 and P0629 (Refer to 1-S201)) in "5.[2] DIAGNOSTIC PROCEDURE BY DTC", perform diagnosis for the ECU, wiring harness and sensor, and repair or replace the required parts. ■ **NOTE** • **Some diagnosis items above may be mentioned twice.**

(a) CAN1 Connector

9Y1200186CRS0014US0



9Y1200144CRS003B

11. Check the Injector (Including the Pipes, etc.)

1. Perform the diagnosis tool active test (stopping the injector injection by cylinder) and check the injector performance.

Factory specification	Engine vibration and noise are increased and the rotation speed is reduced when the injection for the corresponding cylinder is stopped. The same results must be attained from all the cylinders.

OK	Go to "12. Check the Engine".
NG	Check and repair faulty parts including the high pressure line of the defective cylinder.

(a) CAN1 Connector

9Y1200192CRS0075US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Name		Fuel temperature sensor abnormality	
ISO 14229 P-Code		P0182	P0183
J1939-73	SPN	174	174
	FMI	4	3
DTC Name		Fuel temperature sensor: Low	Fuel temperature sensor: High
Management Unit for Detected Part		THFL	THFH
Detection item		• Ground short circuit of sensor / harness	• Open circuit or +B short circuit of sensor / harness
DTC Set Preconditions		• Battery voltage is normal	• Battery voltage is normal
DTC set parameter		• Voltage of temperature sensor in supply pump is 0.1 V or less	• Voltage of temperature sensor in supply pump is 4.9 V or above
Time to action or number of error detection		• 2.8 sec. or more	• 2.8 sec. or more
System Action		• At start-up = −20 °C (−4 °F) [default value] • Under other conditions = 45 °C (113 °F) [default value]	• At start-up = −20 °C (−4 °F) [default value] • Under other conditions = 45 °C (113 °F) [default value]
Behaviour During Malfunction		• None	• None
Engine Warning Light		• ON	• ON
Recovery from error		• Diagnostic counter = zero	• Diagnostic counter = zero

9Y1200192CRS0617US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Name		Exhaust gas temperature sensor 2 (T2) abnormality	
ISO 14229 P-Code		P242C	P242D
J1939-73	SPN	3246	3246
	FMI	4	3
DTC Name		Exhaust gas temperature sensor 2: Low	Exhaust gas temperature sensor 2: High
Management Unit for Detected Part		THAEX2L	THAEX2H
Detection item		• Ground short circuit of sensor / harness • Failure of sensor	• Open circuit or +B short circuit of sensor / harness • Failure of sensor
DTC Set Preconditions		• Battery voltage is normal • Other exhaust gas temperature sensors are normal	• Battery voltage is normal • Other exhaust gas temperature sensors are normal • Coolant temperature is 65 °C (149 °F) or more: continues longer than 10 min. after engine starting • 100 °C (212 °F) ≤ T0 ≤ 800 °C (1472 °F): continues longer than 10 sec. or 100 °C (212 °F) ≤ T1 ≤ 800 °C (1472 °F): continues longer than 10 sec.
DTC set parameter		• DPF outlet temperature sensor (T2) voltage: 0.08 V or less	• DPF outlet temperature sensor (T2) voltage: 4.92 V or more
Time to action or number of error detection		• 5 sec. or more	• 120 sec. or more
System Action		• 0 °C (32 °F) [default value]	• 0 °C (32 °F) [default value]
Behaviour During Malfunction		• None	• None
Engine Warning Light		• ON	• ON
Recovery from error		• Key switch turn OFF	• Key switch turn OFF

9Y1200192CRS0648US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(5) SCV Stuck (DTC P0089 / 1347-7)

Behaviour during malfunction:
- Insufficient output
- Worsening exhaust gas performance
- Engine stops in some case

Detection item:
- SCV stuck at open position (Actual rail pressure continuously exceeds the command rail pressure)

DTC set preconditions:
- Supply pump is normal and pump calibration has been executed and engine is operating (Q: 4 mm^3/st or higher)
- Injector is normal
- Battery voltage is normal
- Sensor supply voltage VCC# is normal
- Rail pressure sensor is normal

DTC set parameter:
- Discharge request of supply pump goes below 0 mm^3/st and the actual rail pressure is 10 MPa (100 kgf/cm^2, 1400 psi) higher than command pressure
- Above state continues for 26 seconds or more

Engine warning light:
- ON

System action:
- Output limitation: Approximately 50 % of normal condition
- Speed limitation (Accelerator limitation: 50 %)
- Rail pressure limitation: Command pressure ≤ 80 MPa (820 kgf/cm^2, 12000 psi)
- EGR stop
- Intake throttle 100 % open

Recovery from error:
- Key switch turn OFF

9Y1200186CRS0070US0

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

(15) Engine Overheat (DTC P0217 / 110-0)

Behaviour during malfunction:
- Insufficient output
- Overheat

Detection item:
- Overheat of engine coolant temperature

DTC set preconditions:
- Coolant temperature sensor is normal

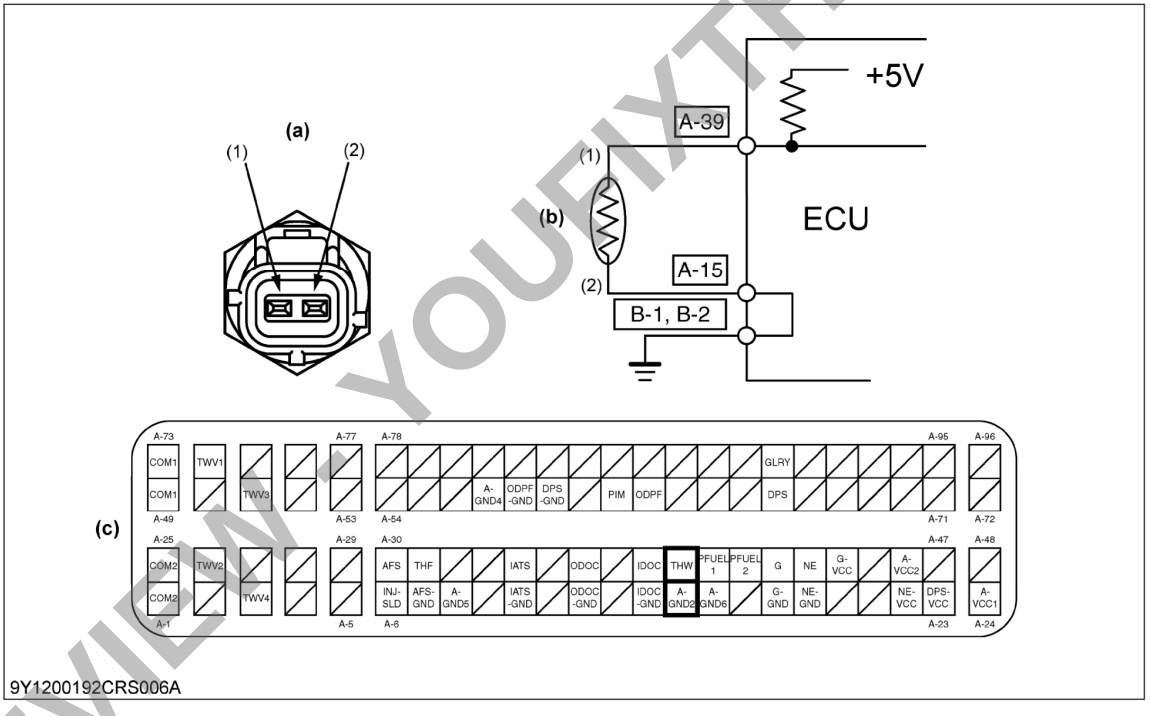
DTC set parameter:
- Engine coolant temperature ≥ 120 °C (248 °F)

Engine warning light:
- ON

System action:
- Output limitation: Approximately 75 % of normal condition
- EGR stop
- Intake throttle 100 % open

Recovery from error:
- Diagnostic counter = zero

9Y1200186CRS0079US0

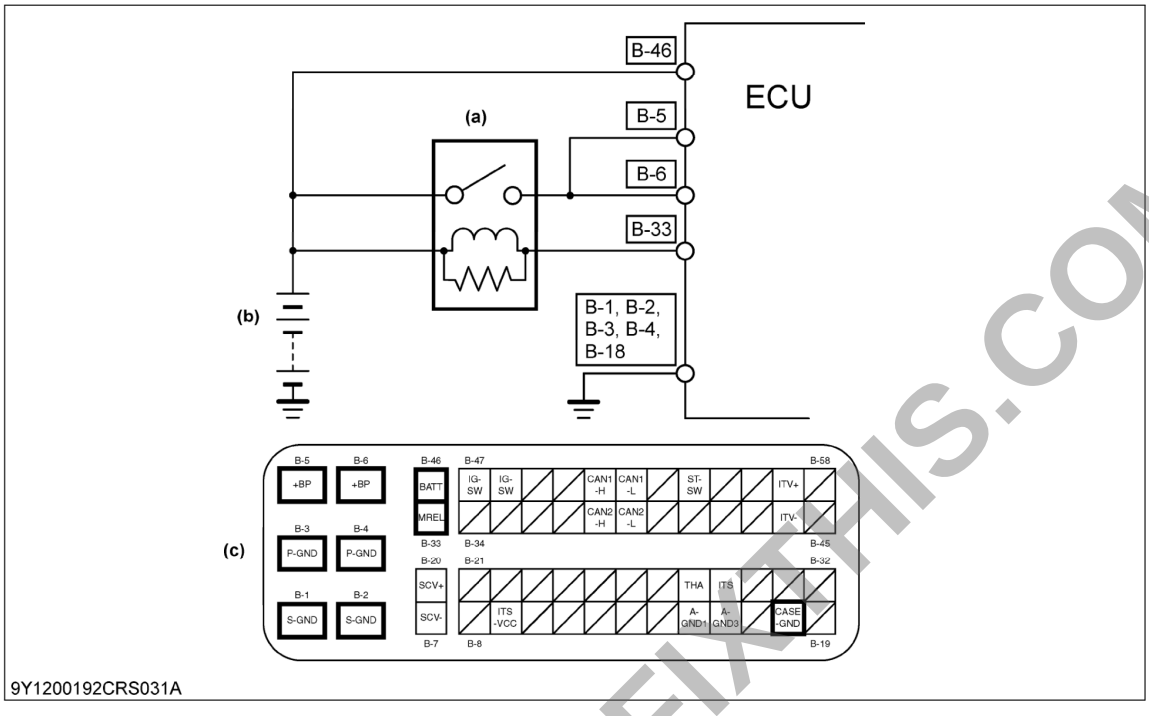


9Y1200192CRS006A

(1) Terminal THW
(2) Terminal A-GND2
(a) Terminal Layout
(b) Coolant Temperature Sensor
(c) ECU Connector 1 (A: 96 Pin)

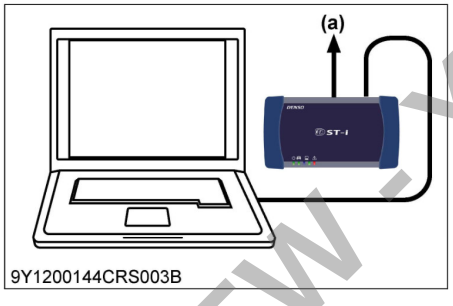
9Y1200192CRS0687US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com



(a) Main Relay **(b) Battery** **(c) ECU Connector 2 (B: 58 pin)**

9Y1200192CRS0752US0



1. Check the ECU Data

1. Place the key switch in the OFF position, attach the diagnosis tool to the CAN1 connector, and return the key switch to the ON position again. Then, check the "Battery voltage" status on the data monitor.
2. Change the engine operation status, and check the "Battery voltage".

Factory specification	8 V or higher, 15 V or lower (except intense cold temperature)

■ **NOTE**

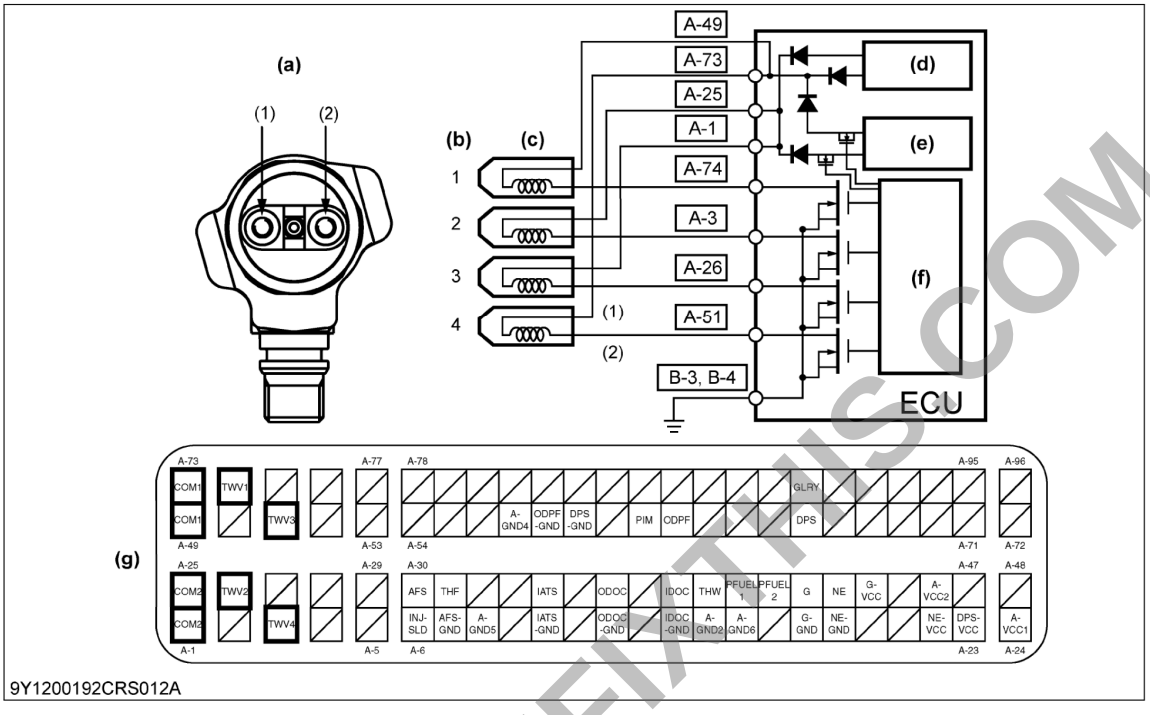
- **Try to change the engine speed as the generated voltage changes accordingly.**

OK	Clear the DTC and check whether it is output again or not.	
	OK	Normal.
	NG	Replace the ECU.
NG	Go to "2. Check the ECU Terminal Voltage (Part 1)".	

(a) CAN1 Connector

9Y1200192CRS0362US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

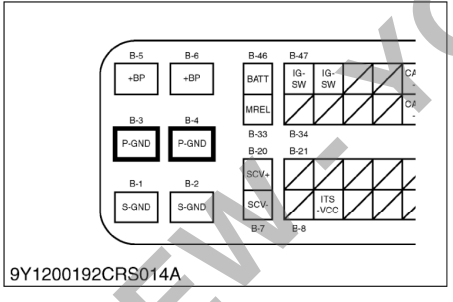


9Y1200192CRS012A

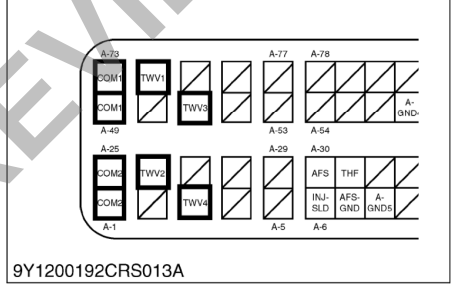
(1) Terminal COMMON
(2) Terminal TWV

(a) Terminal Layout
(b) Engine Cylinder No.
(c) Injector
(d) Rated Amperage Circuit
(e) High Voltage Generation Circuit
(f) Control Circuit
(g) ECU Connector 1 (A: 96 Pin)

9Y1200192CRS0704US0



9Y1200192CRS014A



9Y1200192CRS013A

1, Check the "P-GND" Wiring Harness

1. Place the key switch in the OFF position, unplug the ECU wiring harness connector 2 (B: 58 Pin) from the socket, and measure the resistance between each of ECU terminals B-3 or B-4 and the chassis ground (at the wiring harness side).

Factory specification	1.5 Ω or lower

OK	Go to "2. Check the Wiring Harness Connectors and ECU Pins".
NG	Check the "P-GND" wiring harness. → Repair. Locate the cause of open circuit, or increase its resistance value.

9Y1200192CRS0794US0

2. Check the Wiring Harness Connectors and ECU Pins

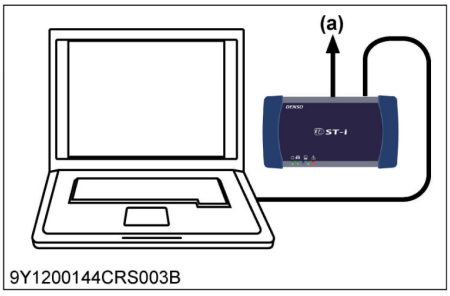
1. Place the key switch in the OFF position, unplug the ECU connector 1 (A: 96 Pin) from the socket, and check the ECU pins for faulty connection, deformation, poor contact or other defects.

Factory specification	Must be free from faulty connection, deformation, poor contact or other defects.

OK	Go to "3. Measure the ECU Terminal Voltage (Part 1)".
NG	Repair wiring harness connectors and ECU pins, or replace them if defective.

9Y1200192CRS0795US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com



9Y1200144CRS003B

2. Check the Exhaust Gas Temperature

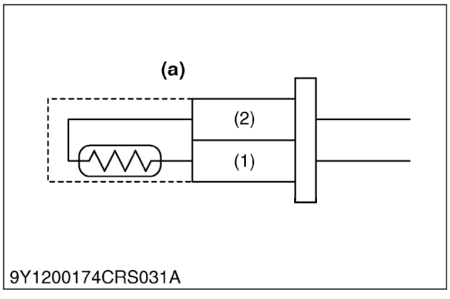
1. Place the key switch in the OFF position, and attach the diagnosis tool to the CAN1 connector.
2. Turn the key switch to the ON position and select the "Exhaust Gas Temperature Sensor 0", "Exhaust Gas Temperature Sensor 1" and "Exhaust Gas Temperature Sensor 2" on the data monitor function.
3. If the exhaust gas temperature is above 300 °C (572 °F), wait till the temperature decreases below 300 °C (572 °F).

Factory specification	The actual exhaust gas temperature and monitoring exhaust gas temperature should be approximately the same.

OK	Go to "4. Check the DTC".
NG	Go to "3. Check the Exhaust Gas Temperature Sensors (Refer to items P0543, P0546 and P242C)".

(a) CAN1 Connector

9Y1200192CRS0510US0



9Y1200174CRS031A

3. Check the Exhaust Gas Temperature Sensors (Refer to items P0543, P0546 and P242C)

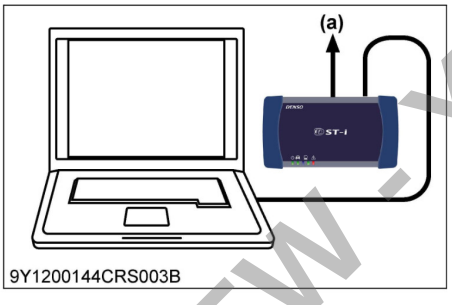
1. Check the exhaust gas temperature sensors (T0, T1 and T2).

OK	Go to "4. Check the DTC".
NG	Repair or replace the exhaust gas temperature sensor or engine combustion main parts. (Follow the diagnostic procedure of items P0543, P0546 and P242C)

(1) Terminal A-GND3
(2) Terminal IDOC, ODOC or ODPF

(a) Exhaust Gas Temperature Sesnsor (T0, T1 and T2)

9Y1200192CRS0511US0



9Y1200144CRS003B

4. Check the DTC

1. Check the engine noise and vibration after starting up the engine. Check whether turbo has abnormality. (sound and externals)
2. Check whether the other DTC is output or not by operating the engine in the normal condition.
3. If it is OK, restart and operate the engine for 10 minutes with the engine in the no-load maximum speed status.
   Check whether the DTC is output or not.

Factory specification	No DTC is output.

OK	Normal.
NG	Go to "5. Check the DPF".

(a) CAN1 Connector

9Y1200192CRS0522US0


9Y1200186CRS029A

5. Check the DPF

1. Visually check if soot is not attached to the tail pipe which is connected to the DPF assembly.
2. Check whether the intake throttle opens completely after starting up the engine.
3. Check whether the coolant temperature is over 65 °C (149 °F) by operating the engine in the normal condition.

OK	Replace the ECU.
NG	Replace the DPF assembly.

(1) DPF Assembly

9Y1200186CRS0116US0

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 17 of 317 pages

The full manual includes:

- All 317 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota V6108-CR-TIE4 Diagnostic Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual