



**UNIVERSITI KUALA LUMPUR
Malaysia France Institute**

**FINAL EXAMINATION
SEPTEMBER 2013 SESSION**

SUBJECT CODE : FVB 20203
SUBJECT TITLE : ADVANCE AUTOTRONIC
LEVEL : BACHELOR
TIME / DURATION : 3 HOURS
DATE :

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper **CAREFULLY**.
2. This question paper is printed on both sides of the paper.
3. Please write your answers on the answer booklet provided.
4. Answer should be written in blue or black ink except for sketching, graphic and illustration.
5. This question paper consists of **ONE (1)** section only. Section A. Answer four (4) questions only.
6. Answer all questions in English.

THERE ARE 4 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 100 marks)

INSTRUCTION: Answer only FOUR questions.

Please use the answer booklet provided.

Question 1 (25 marks)

Based on vehicle Peugeot 407, answer the question below regarding the Cruise Control function;

- (a) What is the function of cruise control system?
(5 marks)
- (b) How to activate the cruise control function for Peugeot 407 model.
(6 marks)
- (c) Where the memorized Cruise Speed is stored? How long will it be stored?
(6 marks)
- (d) When the cruise control function is de-activated?
(4 marks)
- (e) Where is the information of cruise control can be seen by the driver?
(4 marks)

Question 2 (25 marks)

Based on vehicle Peugeot 407, answer the question below regarding the Airbag and Passenger Restraint function;

- (a) What is the first level of occupant protection in the event of vehicle accident?
(4 marks)
- (b) How many types of airbag do they have? List down all of them.
(8 marks)
- (c) List down **FOUR(4)** functions of the Airbag ECU.
(8 marks)
- (d) What is the function of side-impact sensor?
(5 marks)

Question 3 (25 marks)

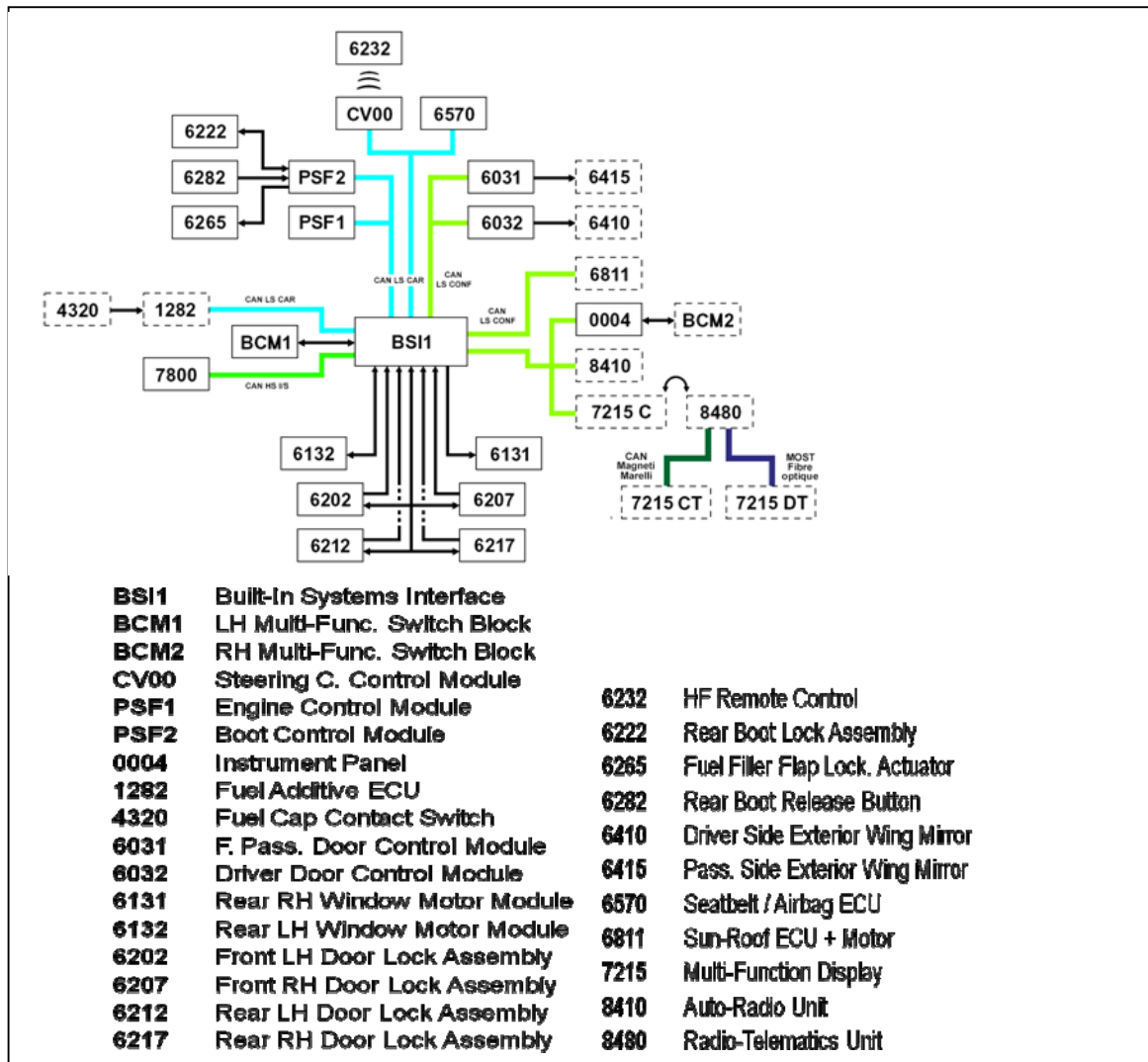


Figure 1: Locking system synoptic wiring diagram

Based on figure 1, answer the question below regarding the Locking Control function;

- (a) What is the function of 6570? What kind of network that it is connected?
 What are the special features of locking system having Seatbelt/Airbag ECU(6570) connected?
 (8 marks)
- (b) Explain the operation of automatic re-locking function according to synoptic wiring above.
 (5 marks)

- (c) In the event of vehicle door open, how is the system warn the driver. (Through what kind of components) (6 marks)
- (d) Why does the vehicle speed information is required by the locking control function? Where is the speed sensor information can be obtained? (6 marks)

Question 4 (25 marks)

Based on vehicle Peugeot 407, answer the question below regarding the Alarm and Engine immobilizer Control functions;

- (a) What is the difference between Peugeot engine immobilizer and the aftermarket engine immobilizer ? (5 marks)
- (b) What is the function of 'anti-scanning'? (4 marks)
- (c) How does the driver is been informed when the Transponder system fault? (4 marks)
- (d) List down the components for the factory fitted alarm system? (8 marks)
- (e) How many levels of protection for the standard factory fitted alarm system? (4 marks)

Question 5 (25 marks)

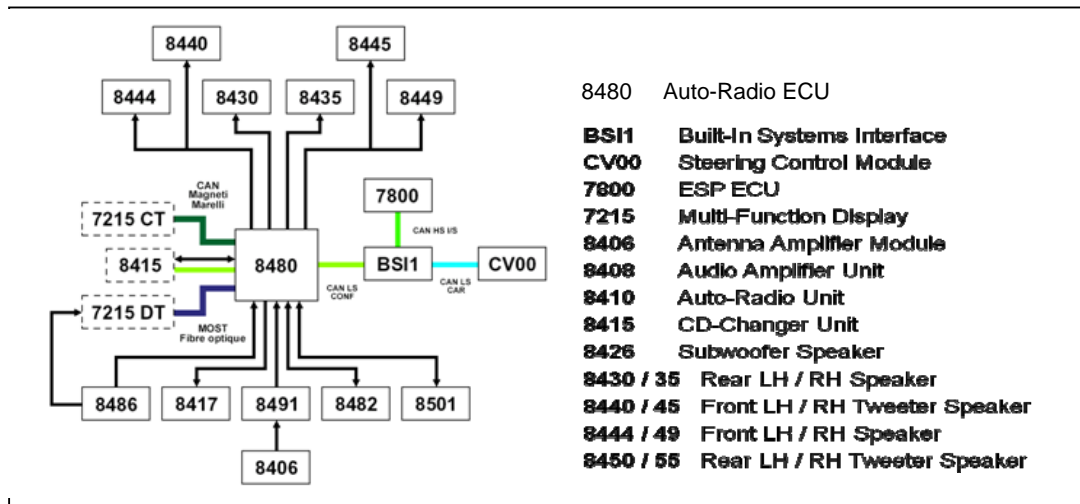


Figure 2: Auto-Radio synoptic wiring diagram

Based on figure 2, answer the question below regarding the Auto-Radio Control function;

- (a) What is the function of CV00?
(5 marks)
- (b) What are the components which are connected in multiplexed network with auto-radio ECU?
(5 marks)
- (c) In the event of fault communication between 7800 and BSI, what will happen to Auto-radio?
(5 marks)
- (d) What is the difference type of connections between 8415 and 8480?
(5 marks)
- (e) What is the type of cable that has been used for the type DT color display?
(5 marks)

END OF QUESTION