-SQA- SCOTTISH QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number-	**2210581**	**-Session-1991-92**
-Superclass-	**XR**	

-Title-	**LIGHT VEHICLE BODY EXTERIOR COMPONENTS AND FINISH TRIM: REMOVAL, REPLACEMENT AND ADJUSTMENT**

-DESCRIPTION-

Purpose	This module is designed to develop the necessary skills and knowledge required to carry out removal, replacement and adjustment of body exterior components and trim. It is aimed at those intending to pursue a career in the motor vehicle repair industry. This module is also designed to complement RTITB module LV401B Vehicle Body Exterior: Removal, Replacement and Adjustment of Components, and will provide the student with the necessary skills and knowledge to prepare for the RTITB skills test. It should be noted that adequate supporting industrial experience will also be necessary.
Preferred Entry Level	94372 Care and Use of Hand Tools; 94376 Vehicle Component Securing Devices; 94377 Vehicle Component Seating Devices.
Outcomes	The student should: 1. identify attachment methods for removable fittings. 2. remove and replace body exterior components and trim. 3. carry out operational adjustments on body exterior components.
Assessment Procedures	Acceptable performance in this module will be satisfactory achievement of all the Performance

Criteria specified for each Outcome.

The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 **IDENTIFY ATTACHMENT METHODS FOR REMOVABLE FITTINGS**

PCs

(a) Identification of the attachment methods for major exterior components is correct in terms of the security of attachment and appearance.
(b) The identification of locating devices is correct in terms of the specific component located.
(c) The identification of the limitations of attachment devices is correct in terms of re-use and component refitment.
(d) The description of the provision for operational adjustment of components is correct in relation to the specific function of the component.

IA Objective Test

The student will be presented with an objective test to test the recall of knowledge relating to the attachment methods for removable fittings.

The objective test could take the form of short answer questions.

The test will consist of 14 questions corresponding to the Performance Criteria and allocated as follows:

(a) 4
(b) 3
(c) 3
(d) 4

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met. This will be demonstrated by the student producing 2 correct responses from each of (b) and (c) and 3 correct responses from each of (a) and (d) above.

OUTCOME 2 **REMOVE AND REPLACE BODY EXTERIOR COMPONENTS AND TRIM**

PCs

(a) The procedures followed for removal and replacement of body exterior components and trim are in accordance with those outlined in appropriate technical data corresponding to the vehicle.

(b) The procedures followed during removal and replacement of body exterior components and trim ensure protection of body external components during removal, temporary storage and replacement.

IA Practical Exercise

The student will be presented with a practical exercise to test the application of knowledge and skills relating to the removal and replacement of body exterior components and trim.

The practical exercise will consist of a series of tasks in which the student will be required to remove and refit the following:

(i) bonnet or boot lid or rear hatch;
(ii) door;
(iii) bumper;
(iv) lamp assembly;
(v) grille or moulding or trim;
(vi) mirror (non-electrically operated type);
(vii) window regulator mechanism and glass (non-electrically operated type).

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met.

OUTCOME 3 **CARRY OUT OPERATIONAL ADJUSTMENT ON BODY EXTERIOR COMPONENTS**

PCs

(a) The procedures followed for carrying out operational adjustments on body exterior components are in accordance with those outlined in appropriate technical data corresponding to the vehicle.

(b) The procedures followed for carrying out operational adjustments on body exterior components ensure protection of body exterior components during adjustment, trial operation and assessment.

IA Practical Exercise

The student will be presented with a practical exercise to test the application of knowledge and skills relating to

carrying out operational adjustments on body exterior components.
The practical exercise will consist of a series of tasks in which the student will be required to carry out operational adjustments on the following:

(i) hinge (door or bonnet);
(ii) catch (door or bonnet);
(iii) release cable (door, bonnet or boot);
(iv) operating handle (door or window);
(v) number plate.

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met.

The following sections of the descriptor are offered as guidance.
They are not mandatory.

CONTENT/CONTEXT

In this module, safety regulations, safe working practices and procedures should be observed at all times.

Corresponding to Outcomes 1-3:

This module should be taught in the context most suited to the student's particular needs.

This module is intended to give students an insight into the working principles of body and trim components; the procedures for their removal and replacement; the methods of adjustment and their effects. Emphasis should be directed more towards removal for access and servicing purposes rather than damage repair. Students should also be made particularly aware of the principles of body component attachment methods in order to derive competent work practices.

The limitations of certain component attachment devices also need to be stressed to ensure adequate component security on replacement, eg. use of once-only disposable spring/plastic clips, effects of surface conditions on the security of adhesive held trim.

The components in Outcome 2 have been grouped to cover similar fitting methods.

SUGGESTED LEARNING AND TEACHING APPROACHES

This module should be undertaken in a service workshop with an adequate range of vehicles equipped with the components to be covered. Students should have access to relevant service publications for the satisfactory performance of each test.

A checklist should be used to record the progression and completion of each practical exercise.

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