

<b>Title</b>	<b>Service automotive electronic locking systems</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: add an extra transponder key to a vehicle; service and program remote entry devices; service and program electronic locking systems on vehicles; and manipulate electronic control systems.
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<b>Classification</b>	Mechanical Engineering > Locksmithing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation  
Health and Safety at Work Act 2015.
- 2 Definition  
*Worksite procedures* refers to the documented and/or verbal procedures that include: worksite rules, business procedures, equipment operating instructions, quality management systems, and health and safety requirements.
- 3 Range  
Remote entry devices include – fobs, plips, and remotes.
- 4 Assessment information  
All work practices must meet recognised codes of practice, and documented worksite safety procedures (where these exceed any applicable code) for personal, product and worksite safety, and must comply with current legislation.

### Outcomes and performance criteria

#### Outcome 1

Add an extra transponder key to a vehicle.

#### Performance criteria

- 1.1 Authenticity of request is verified according to worksite procedures.
- 1.2 The transponder key is identified using appropriate sources.

Range identification – vehicle, profile, transponder type, transponder ID, key blank;  
sources – customer, vehicle, dealer, manuals, software.

- 1.3 Programming procedure is established.
- 1.4 Vehicle battery voltage is checked and alternative power source is connected when required.
- 1.5 The key to the vehicle is cut and programmed.  
Range clone key, onboard programming, diagnostic tool programming.
- 1.6 Immobiliser modules are located, removed, replaced, and initialised as necessary

## **Outcome 2**

Service and program remote entry devices.

### **Performance criteria**

- 2.1 Battery condition is checked and whether it needs to be replaced is determined according to battery manufacturer's specification.
- 2.2 Battery is replaced according to remote entry device manufacturer's specification.
- 2.3 Vehicle is programmed to accept the remote entry device.

## **Outcome 3**

Service and program electronic locking systems on vehicles.

### **Performance criteria**

- 3.1 Key or remote entry device is tested for correct operation.
- 3.2 Actuators are tested to respond to control signals.
- 3.3 Actuators are inspected, tested, serviced, and adjusted as necessary for compliance to original factory assembly and functioning.
- 3.4 Faulty actuator is replaced, or customer is referred to specialised service centre.

## **Outcome 4**

Manipulate electronic control systems.

### **Performance criteria**

- 4.1 Authenticity of request is verified according to worksite procedures.
- 4.2 Entry to the vehicle is gained by manipulating electronic controls.

Range switches, microswitches, actuators, cabling.

<b>Replacement information</b>	This unit standard was replaced by unit standard 30971 and unit standard 30972.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 May 2006	31 December 2022
Review	2	1 March 2018	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

This unit standard is expiring