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3. VEHICLE COMPONENTS AND CONTROLS MANUAL

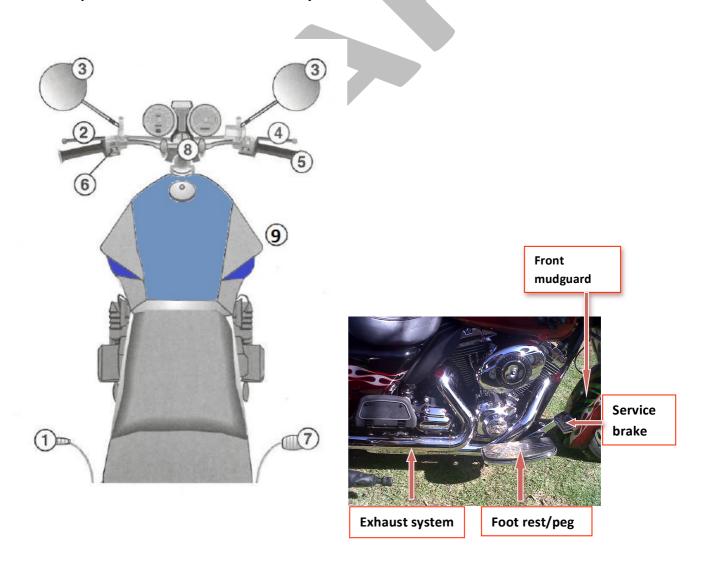
1 General

The aim of this document is to familiarise a learner driver with the major visual components of a motor vehicle or motor cycle. The intention is also to assist the learner driver to identify the controls that needs to be used in conjunction to complete a certain manoeuvre or action.

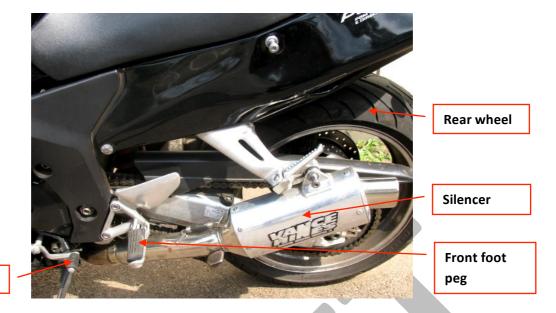
The controls/components of the following vehicles are covered in this guide.

- Motor cycles (Electric Scooter and motor cycle)
- Light motor vehicles (Manual and automatic gear box)
- Heavy Motor Vehicle (Manual and automatic gear box)

1.1 Components and controls of a Motor cycle

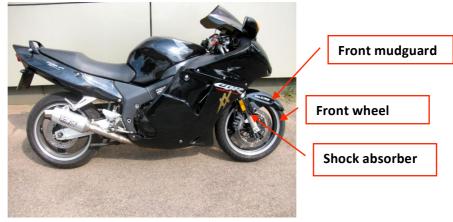




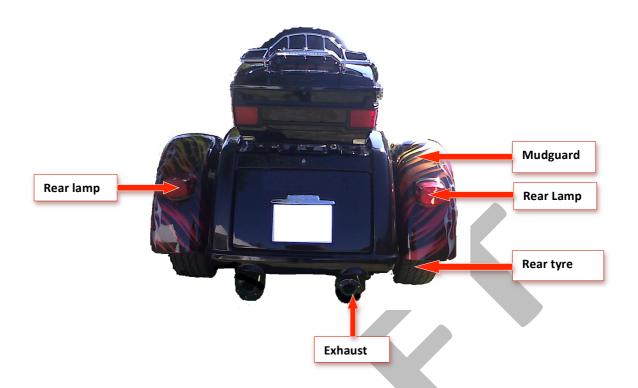


Gear lever





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1.2 Identification of Controls

| Component Number | Description of Component |
|------------------|----------------------------------|
| 1 | Gear lever |
| 2 | Clutch |
| 3 | Left and right rear view mirrors |
| 4 | Front Brake |
| 5 | Throttle |
| 6 | Indicator light switch |
| 7 | Rear brake (operated by foot) |
| 8 | Handle bars |
| 9 | Fuel tank |

1.3 SAMPLE QUESTIONS

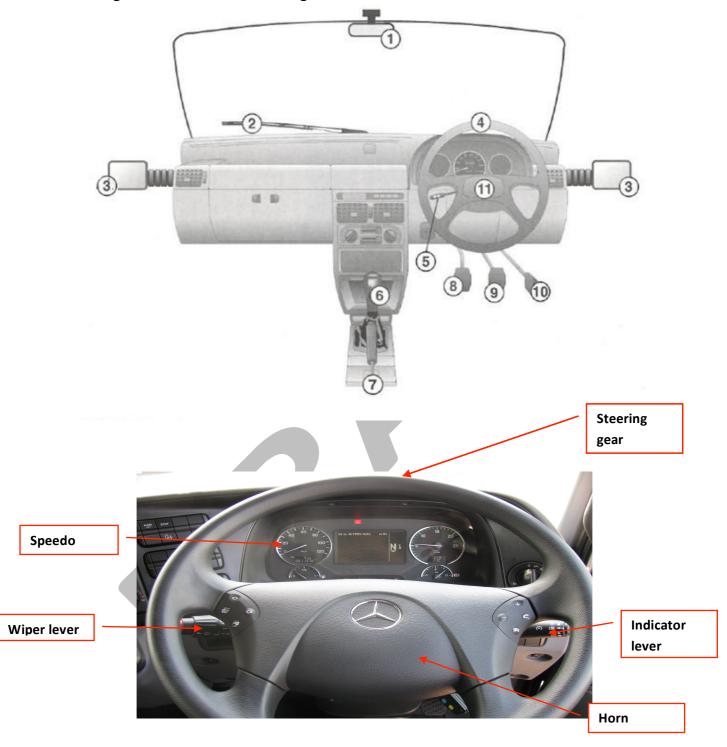
| QUESTION | ANSWER |
|---|----------------------------------|
| To regulate the fuel supply to the engine you will make use of the | 5 |
| In the case of a motorcycle the lever that applies the front brake and activates | |
| the stop lamp is | 4 |
| On a motorcycle the lever that applies the rear brake is | 7 |
| The following controls are used in combination to bring the motorcycle to a complete standstill. () . | Front and rear brakes no 4 and 7 |
| The following control is used to increase or decrease the speed of a motorcycle | 5 |
| The following controls are used to control the speed of a motorcycle. | 4 + 5 + 7 |
| The switch to activate indicator signals and thereby to communicate your intentions, is | 6 |
| The twist grip that controls the engine speed, is | 5 |
| The following controls are used to change gears | 1 and 2 |
| The following control is used to indicate that you are going to turn | 6 |
| To ride faster, you must use control | 5 |
| To stop, you must use the following controls | 4 and 7 |
| In order to turn the motor cycle, you must use control | 8 |
| When controls 4 and 7 are used, the distance it takes you to stop your motor cycle is (i) longer on a wet road than on a dry road. (ii) longer if you ride at a higher speed. (iii) longer if carrying a passenger. | All of the options are correct |
| SELECT THE CORRECT COMBINATION | |
| Which control is used by the rider of a motorcycle to monitor the traffic situation to the rear of the motorcycle? | 3 |
| Which control is used to disengage the engine from the gearbox? | 2 |
| Which control is used to check traffic to the rear? | 3 |
| Which control is used when the rider of a motorcycle wants to signal his intention to steer to the left? | 6 |
| Which controls must be used in combination immediately before coming to a standstill? | 2 , 4 and 7 |
| In order to negotiate a sharp turn in the road the following controls must be used | 1, 2, 3, 4, 5, 7 and 8 |
| Which lever is used to change the gears? | 1 |

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2 Components and Controls of a Light Motor vehicle

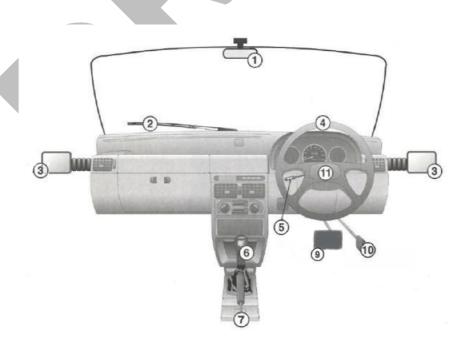
2.1 Light Motor Vehicle - Manual gearbox



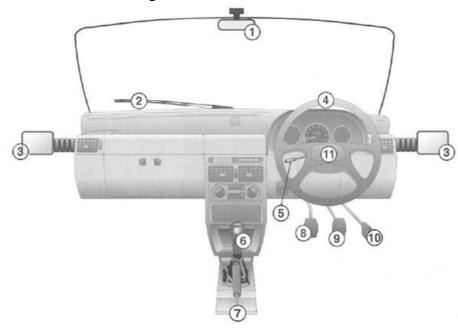
2.2 Identification of Controls

| Component Number | Description of Component |
|------------------|--|
| 1 | Centre rear view mirror |
| 2 | Window wiper |
| 3 | Left and right rear view mirrors |
| 4 | Steering wheel |
| 5 | Indicator light switch |
| 6 | Gear level |
| 7 | Hand brake Note that some vehicle might have the hand brake as a foot operated control (e.g. Mercedes-Benz) |
| 8 | Clutch |
| 9 | Brake |
| 10 | Accelerator |
| 11 | Horn |

2.3 Light Motor Vehicle - Automatic Gearbox



2.4 Light motor vehicle manual gearbox



2.5 Identification of Controls

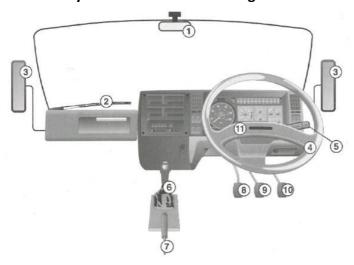
| Component No | Description of Component | |
|--------------|---|--|
| 1 | Centre rear view mirror | |
| | Note: The driver must always first check the mirrors to be aware of the traffic | |
| | situation behind him or her. This will assist the driver to avoid possible unsafe | |
| | situations. | |
| 2 | Window wiper | |
| 3 | Left and right rear view mirrors | |
| 4 | Steering wheel | |
| 5 | Indicator light switch | |
| 6 | Gear lever- Note: The gear lever for an automatic vehicle operates differently | |
| | from a manual gear box system. | |
| 7 | Parking brake-Note: that some vehicles might have the parking brake as a foot | |
| | operated control (e.g. Mercedes-Benz) | |
| 8 | Automatic vehicles do not have a clutch control. | |
| 9 | Brake | |
| 10 | Accelerator | |
| 11 | Horn | |

2.6 SAMPLE QUESTIONS

| QUESTION | ANSWER |
|--|--------------------------------|
| Which control is not found in an automatic vehicle? | 8 |
| Which control would you use to-look what is on the right hand rear-side of your | |
| vehicle? | 3 |
| The following control is used to accelerate your vehicle | 10 |
| What control is used to ensure that your parked vehicle does not move | 7 |
| In order to change a gear, you must use control/s | 6 and 8. |
| To stop your vehicle you must use number | 9 |
| When braking the distance it takes the driver of a motor vehicle to stop is (i) longer on a wet road than on a dry road. (ii) longer if the vehicle is travelling at a higher speed. (iii) longer if the vehicle is loaded. | All of the options are correct |
| SELECT THE CORRECT COMBINATION | |
| The control that assists the driver when engaging or disengaging a gear is? | 8 |
| The speed of the vehicle can be increased by control? | 10 |
| Which control is used before applying the brake in order to slow down or stop. | 1 |
| Which control is used before changing direction of a vehicle? | 5 |
| Which control is used before changing the speed of the vehicle? | 1 |
| Which control is used to advise other road users of your intention to steer to the left or right, or to turn to the left or right. | 5 |
| The following control is used to alert other road users in order to avoid a collision? | 11 |
| Which control is used to avoid the vehicle stalling just before coming to a complete standstill? | 8 |
| In order to bring the vehicle to a complete standstill, what control is used? | 9 |
| Which control is used to change the direction of the vehicle? | 4 |
| Which control is used to clean the front windscreen of the vehicle? | 2 |
| Which control is used to decrease speed or stop? | 9 |
| Which control is used to keep the vehicle stationary after parking? | 7 |
| Which control is used to see what is to the rear of the vehicle? | 1 |
| Which control is used to select a gear? | 6 |
| The control used to steer the vehicle to the left or right is? | 4 |
| The following control is used to turn | 4 |
| When driving in the rain the following control is used | 2 |
| Which control is used when parking and leaving a vehicle unattended? | 7 |
| The control that must be used to ensure the vehicle remains stationary is? | 7 |
| Which control(s) is used to stop the vehicle in an emergency? | 9 |
| Which control(s) is/are used to see what is to the rear and sides of the vehicle? | 1 and 3 |
| Which control(s) is/are used when changing from one gear to another? | 8 and 6 |
| Which controls must you use when there is a sharp turn in the road? | 1, 4, 6, 8, 9 and 10 only |

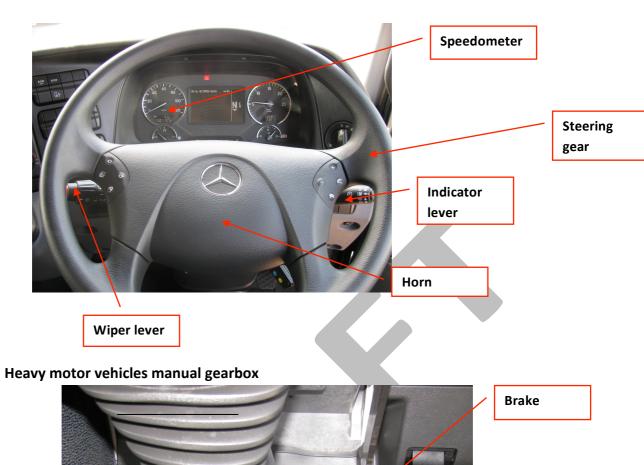
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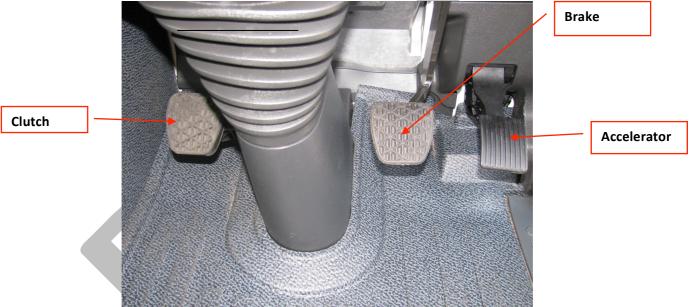
2.7 Heavy Motor Vehicle - Manual gearbox



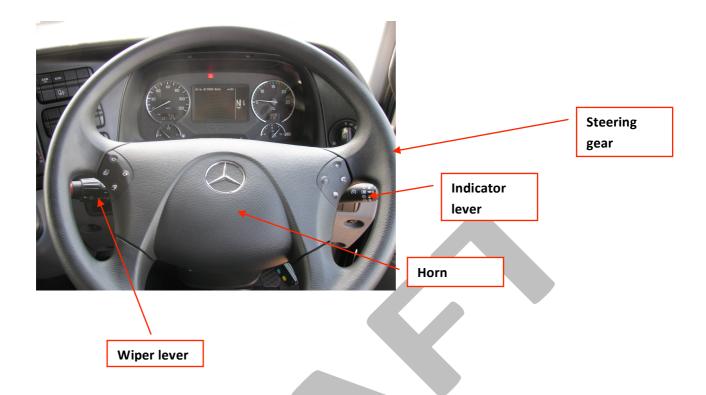
2.8 Identification of Controls

| Component No | Description of Component |
|--------------|--|
| 1 | Centre rear view mirror |
| 2 | Window wiper |
| 3 | Left and right rear view mirrors |
| 4 | Steering wheel |
| 5 | Indicator light switch |
| 6 | Gear level – Note: The gear level for an automatic vehicle operates differently from a manual gear box system. |
| 7 | Hand brake |
| 8 | Clutch control. |
| 9 | Brake |
| 10 | Accelerator |
| 11 | Horn |

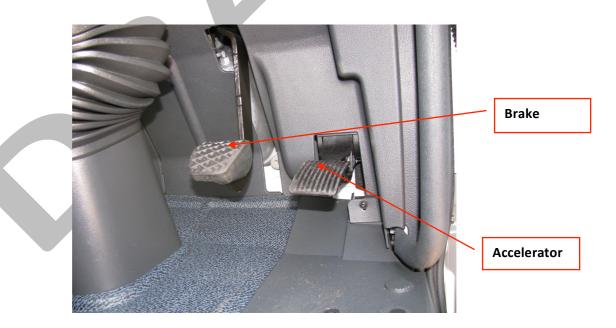




2.9



2.10 Heavy motor vehicle automatic gearbox



2.11 SAMPLE QUESTIONS

| QUESTION | ANSWER |
|---|------------------------------|
| Control no 8 is used to | change gears. |
| Control no. 1 is the | rearview mirror (interior). |
| Control no. 2 is the | windscreen wipers. |
| Control no. 4 is the | steering wheel. |
| Control no. 5 is the | direction indicator. |
| Control no. 6 is the | gear lever. |
| The following control assists the driver when changing gears: | 8 |
| The following control is used to change the direction of the | |
| vehicle: | 4 |
| The following control is used to keep a parked vehicle stationary: | 7 |
| The following control is used to select the appropriate gear of the | |
| vehicle: | 6 |
| The following is a foot control | 9 |
| The following is not a hand control | 10 |
| The following is used to indicate the intention to change direction: | 5 |
| The following is used to monitor traffic: | 3 |
| To accelerate your vehicle, you must use number | 10 |
| To bring a vehicle to a complete standstill control no is used | 9 |
| To bring the speed down or stop the vehicle completely the | |
| following control is used: | 9 |
| To ensure that your parked vehicle does not move, use number | 7 |
| To increase and decrease the speed of the vehicle, the following control is used: | 10 |
| To indicate that you are going to turn you must use number | 5 |
| To keep the windscreen clear during rainy conditions, the following | |
| is used | 2 |
| To monitor traffic to the rear the following is used | 3 |
| To select a gear, you must use numbers | 6 and 8 |
| To stop your vehicle, you must use number | 9 |
| To turn your vehicle, number is used. | 4 |
| When control number 9 is used, the distance it takes the driver of a motor vehicle to stop it is | |
| (i) longer on a wet road than on a dry road.(ii) longer if the vehicle is travelling at a higher speed.(iii) longer if the vehicle is loaded. | |
| SELECT THE CORRECT COMBINATION | All of the above are correct |
| When intending to change direction the following controls are used: | 1+3+5 |
| When you stop on a steep incline and want to prevent the vehicle | |
| from rolling backwards, you use control(s) no | 7 |
| Which controls must you use when there is a sharp turn in the | 1 2 4 6 0 0 5 3 40 3 3 40 |
| road? | 1, 3, 4, 6, 8, 9 and 10 only |