

vehicle explanation motorcycle

Inspection – walk around (traffic and operational safety)

In the case of rental vehicles, it must be ensured that they are registered for the corresponding driver's license (A1, A2) (the KW specification can be read in the registration certificate)

- A1 not more than 125cc and max 11KW
- A2 not more than 35KW

A tour around the vehicle is necessary to detect the following damage:

- Checking the front and rear lights
- Turn signals and license plate lights
- License plate must be clean/legible
- Brake light
- Check tyres for possible cuts, cracks, dents and optically for objects that have been worn in

Wheels

Minimum tread depth must be 1.6mm on 75% of the tread.

This is checked with a tread depth gauge or indicators (elevation in the tread grooves)

There are no winter tires for motorcycles.

Balancing weights are weights attached to the rim or spoke so that the wheel runs smoothly. If the weight is lost, the motorcycle becomes restless at higher speeds.

Air pressure is measured with a pressure gauge on the cold tire (e.g. at gas stations).

The table for the correct tire pressure can be found on the chain guard or in the owner's manual. If this is not available, 2.5 bar is usually ideal. Tires heat up when driving and this distorts the tire pressure!

Tyre designation: 160/60ZR17 (69W) TL M/C

- 160 = 160mm tire width
- 60 = Percentage ratio of tire width to tire height
- ZR = Radial tire for V-max (maximum speed) over 240 km/h – no R = diagonal tire!!
- 17 = Rim diameter in inches
- M/C = for **Motorcycle** (mandatory identifier for America). This marking must also be applied to motorcycle and scooter tires from 13 inches to 19 inches
- 69 = Carrying capacity
- W = Speed index
- TL = Tubeless (in German: tubeless)

DOT (Department of Transportation) Number:

Production date calendar week and year (e.g. 1924 = week 19, year 2024).

All information must match the data in the registration certificate or there must be a tire approval.

It is important that the combinations of front and rear tires are adhered to and that the direction of travel (indicated by arrows) is observed. Radial and diagonal tyres may also be mixed on the motorcycle.

Tyres should not be older than 5 years

Spokes: Check tension and condition by sound sample

Check the brake system

Have the **brake fluid** replaced every 2 years or according to the operating instructions.

Check the front and rear fluid containers with the vehicle upright.

Blank travel: Check the blank travel for lever or foot lever. This should be about 2-3 cm

Brake pressure test: Fully operate the lever or foot lever for 30 seconds (do not give way, then the brake system is tight).

Check damage to the pipes (liquid leakage).

Brake pads: If the brake fluid has dropped to "min", the lines are in order and tight, then have the brake pads replaced. Check the thickness (min. 2mm) by looking at it (transverse groove in the brake pads)

Check the brake light (hand and foot lever) for the function of the bulb and the switches (reflection in a window, second person or with hand lever it is possible to hold the hand to the light).

Lighting

In general, we have:

Front: Parking, low beam and high beam

Rear: tail light, brake light and license plate light

Light levels:

- Parking light (note key position or switch on the right control element)
- Low beam (note the switch on the left and right controls)
- High beam (turns on and off on the left control). blue indicator light

Check for function cleanliness and headlight range (workshop: low beam min. 40m)

Headlight flasher: The switch for the headlight flasher is located on the left control element at the front.

Indicator lights

Oil pressure monitoring, remote thermometer display and charge indicator light

When these lights come on, the engine is no longer lubricated, cooled, or the battery is no longer charged. If these light up while driving, disengage the clutch immediately and turn off the engine (emergency stop switch on the handlebars, all lights and turn signals remain in operation, do not fiddle with the key!)

Check the oil level on the sight glass or with an oil dipstick. If the oil level is too low, refill or tow away according to the operating instructions.

If there is too little coolant, wait until the engine has cooled down and then refill. If there is enough coolant, driving to the next workshop is only possible under observation of the indicator light or remote thermometer display. **It is important** to take cooling breaks.

Kickstand

If the side stand is unfolded, the engine dies when the gear is engaged. When the gear is engaged and the side stand is folded out, the engine does not start. Pay attention to the green indicator light on the dashboard.

Engine

Lubrication

Possible types:

- For 2-stroke: mixture or fresh oil
- For 4-stroke: Pressure circulation or dry sump
- School vehicle: 4-stroke engine with pressure lubrication

When checked by: engine oil, dipstick or sight glass, the vehicle must stand upright

Refill the oil according to the operating instructions

Water cooling

- Keep cooler clean (wipe insects with a damp cloth, not a high-pressure cleaner)
- Coolant (between min. / max.)
- Remote thermometer or indicator light (in case of lack of water or top up with ready-made coolant)

Other types of refrigeration

Air cooling: keep cooling fins clean

Oil cooling

Chain:

Check the voltage and retension if necessary according to the operating instructions.

- If the chain is too loose, it can jump off
- If it is stretched too tightly, it can tear => acute risk of falling

Stretch at the back of the sprocket to lift the chain (max. half prong)

Escape from the back to the front to see if the chain is running straight (otherwise it could jump off)

Clean with a suitable chain cleaner to remove dirt and old chain grease from the chain

Lubrication Use chain grease with special adhesion properties

Other drive types: cardan shaft (e.g. BMW), Variomatic (automatic scooters) and timing belts (e.g. Harley Davidson)

Bearing:

Steering head bearings and clevis bearings must be stable so that the handlebars do not flutter.

Wheel bearings front and rear should not make any strange noises

Swingarm bearings: the rear swingarm may only move up and down

No camp is allowed to have a game

Shock absorber function, tightness (oil leakage) and damage check

Battery: This is usually located under the seat!

Mostly maintenance-free battery: Check whether poles are firm and clean!

Clothing and seating position

Helmet tight fit / test mark / new after fall / eye-catching color / make sure the visor is clean and not scratched / chin strap closed

Other clothing tight-fitting (airstream) / protective function (protectors / cotton lining) visibility / gloves (also in summer)

Posture: toes next to pedal / knee closure (knees to the tank)

Pillion:

Minimum age 12 years! Must be mentally and physically able to hold on securely (e.g. to the driver) and must be able to reach the footrests.

Note the maximum permissible total weight in the registration certificate!! And whether a pillion passenger is also registered.

Increase of spring tension, possibly also damping

Increase tire pressure according to the operating instructions

If necessary, have the headlight adjusted or adjusted by means of light range control (on newer touring motorcycles)

Motorway vignette and sticker §57a Vehicle inspection

The motorway vignette is valid for 14 months, as with a car, e.g. 01.12.2024 to 31.1.2026

With a new motorcycle, the sticker (§57a test plan chain) must be redone as with a car the 1st time after 3 years, then after 2 years, then every year. You can have the sticker done 1 month before the hole punching and no later than 4 months after. A total of 6 months (1 before + 1 hole + 4 after)

Get fit for winter

- Cleaning the motorcycle
- Increase air pressure if necessary
- Full tank - so that the tank does not start to rust inside
- If possible, park them in a garage and jack them up so that the wheels are free
- possibly cover with a hood that matches the motorcycle so that too much dust and dirt cannot accumulate

Good luck with your practical exam,
wish you your startup-schönbrunn® team!