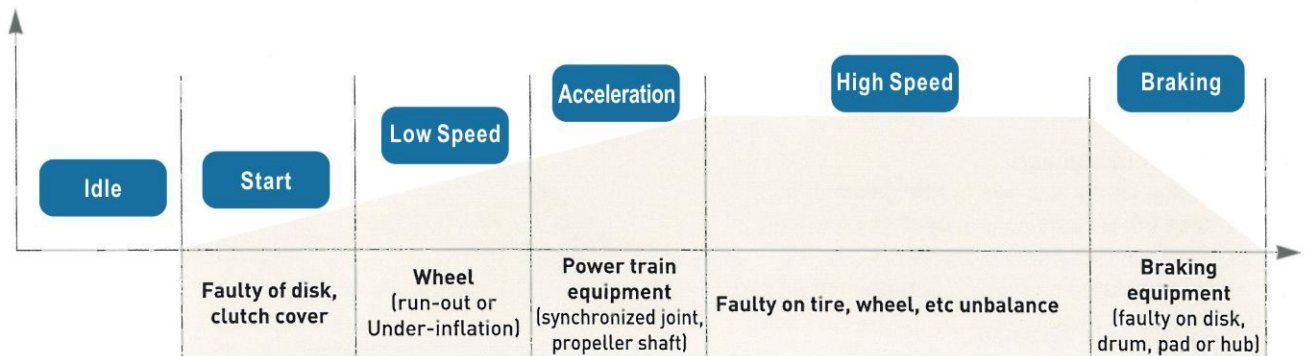


Vibration

• Analysis of vibration's cause depending on speed



1) When operating vehicle idle in case

Check R.P.M on vehicle idle condition. If R.P.M is running irregularly, the engine is out of order so if R.P.M is running regularly, you must check as below

- Engine faulty
- Inner transmission
- Engine mount (rubber bundle) worn out or faulty

2) Start in case

When you release your feet from the clutch, the vehicle is moving with vibration at that case you have to check disk and clutch cover

3) Low speed (10 ~ 30Km) in case

When you drive low speed, the handle is vibrating due to front axles and the vehicle is shaken due to rear axles.

- run-out of wheel or tire
- Under-inflation
- Hub transformation

4) Acceleration (30 ~ 100Km) in case

When you accelerate, the vehicle or handle are shaking at that time you have to check as below

- Power-train part (synchronized joint, propeller shaft gap)
- Interference according to damage of engine mount
- Synchronized joint has no gap because distance is decreasing between wheel and transmission due to impact
- Rock of engine generating power or bad condition of engine.

5) High speed in case

Main reason of faulty is rotation or balance. (when Natural vibration speed of vibration system and rotation speed of tire are the same speed, vibration is made from them also handle shaking is related to front axles and vehicle shaking is related to rear axles)

- Non-balance or run out of wheel, tire ,etc.
- Wheel faulty(esp. on non original wheel)
- Non uniformity tire
- Foreign material in the interior tire
- Excessive loose of steering equipment