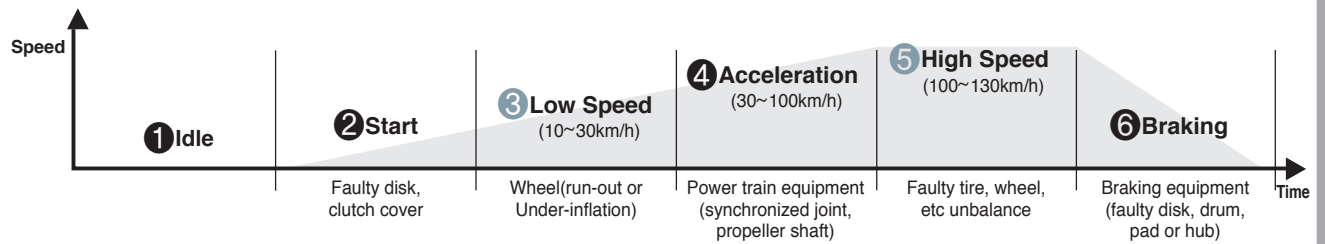


# Vibration Causes Depending on Speed



This explains the major factor of ride disturbance issues based on driving speed and parts of vehicle.



Speed Vehicle part	1 Idle	2 Start	3 Low Speed	4 Acceleration	5 High Speed	6 Braking
Vehicle	Engine	Clutch Disk	Wheel Alignment	Power Train part	Wheel Alignment	Disk
	Transmission	Clutch cover	Steering column	Engine Mount	Steering column	Drum Hub
	Clutch cover	-	Suspension	-	Suspension	Brake pad
Tire	-	-	Irregular Wear	-	Irregular Wear	-
	-	-	Out of Round(Balance)	-	Out of Round(Balance)	-
	-	-	Flat Spot	-	Flat Spot	-
Wheel	-	-	Rim Run-out Wheel Unbalance	-	Rim Run-out Wheel Unbalance	-
	-	-	Rim Damage	-	Rim Damage	-
	-	-	Hub Transformation	-	Hub Transformation	-
	-	-	Rim Centering for Hub	-	Rim Centering for Hub	-
Tire & Rim	-	-	Rim/Tire Matching	-	Rim/Tire Matching	-
	-	-	Loose Lugnut	-	Loose Lugnut	-
	-	-	Fitment	-	Fitment	-