# Appendix 2

For motor vehicles complied with 1st to 5th periods, the guidelines for Basic Engine Type, Transmission System, Body Shape, and Engine Installation Locationpertaining to same vehicle configurations and representative vehicle selectionare as follows:

I. “Basic Engine Type” means a motor vehicle engine with the same fuel type, combustion cycle, fuelcontrol system, cylinder capacity volume, number of cylinders, cylinder configuration, cooling method, number of valves, valve configuration and control systems, difference in maximum horsepower notexceeding 20% and produced by the same manufacturer that can be considered the same basic enginetype.

II. “Transmission System” means gear shift mechanical type (manual, automatic or continuously variabletransmission) and drive mode (gasoline and diesel vehicles rear-wheel drive, front wheel drive,four-wheel drive, or all-time four-wheel drive; for motorcycles such as chain drive, transmission shaftand belt drive).

III. “Body Shape” means the exterior shape of the motor vehicle. For gasoline and diesel vehicles such assedan type and convertible type sedans, station wagon type, wing type, bonnet type, cab over type etcetera; for motorcycles it indicates scooters and motorcycles, etc.

IV. “Engine Installation Location” means the different engine installation locations that are categorized asfront, middle and rear engine mounting positions.

V. Principles for Selection:

| Ranking of selection | Selection item | Factors for selection |
|---|---|---|
| 1 | Maximum engine horsepower | Higher power |
| 2 | Inspected vehicle weight | Lighter weight |
| 3 | Tested gear for deceleration speed ratio | Higher ratio |
| 4 | Cooling fan drive method | Direct drive |
| 5 | Number of tires (not including spare tire) | Greater number of outlets |
| 6 | Tire width | Wider tire |
| 7 | Number of exhaust pipe outlets | Greater number of outlets |
| 8 | Air intake type | Turbo |

For vehicle types of category L complied with 6th period and later periods, the guidelines for Basic Engine Type, Transmission System, and Silencing Systempertaining to same vehicle configurations and representative vehicle selection are as follows:

I. “Basic Engine Type” means a motor vehicle engine with the same combustion cycle, reciprocating or rotary piston, fuel control system, cylinder capacity volume, number of cylinders, cylinder configuration, cooling method, number of valves, valve configuration and control systems, difference in maximum horsepower and the corresponding rated engine speed not exceeding 20%( if differs only due to different engine mappings or different motor driving setting but for the same construction, these vehicles may be regarded as from the same type); moreover, the electric motor of motor vehicle with the same type and slot-pole configuration and produced by the same manufacturer that can be considered the same basic engine type.

II. “Transmission System” means drive mode (chain drive, transmission shaft and belt drive), the number and ratios of the gears.

III. “Silencing System”: Thecharacteristics of silencing system of motor vehicles shall be the same as trade names or marks, characteristics of the materials (exclude coating), shape or size, operating principles, assembly method, and number of system or components.Silencing system means a complete set of components necessary for limiting the sound produced by an engine, its intake and its exhaust (the exhaust manifold(s), the catalyst(s) and emission after-treatment device(s) are not considered part of the silencing system.

For vehicle types of category L complied with requirements of 6th period and later periods, the principles of representative vehicle selection are as follows:

| Ranking of selection | Selection item | Factors for selection |
|---|---|---|
| 1 | Maximum engine horsepower | Lower |
| 2 | Inspected vehicle weight | Higher |
| 3 | Tested gear for deceleration speed ratio | Longer |
| 4 | Tire width | Wider |

For vehicle types of categories M1, N1, M2≤ 3.5 tons gross vehicle weight complied with 6th period and later periods, the guidelines for Engine Compartment, Basic Engine Type, and Silencing System pertaining to same vehicle configurations and representative vehicle selection are as follows:

I. “Engine Compartment”: The shape or materials of the compartmentfor engine, electric motor, and electric motor driver and its soundproofing shall be the same.

II. “Basic Engine Type” means a motor vehicle engine with the same combustion cycle, reciprocating or rotary piston, fuel control system, cylinder capacity volume, number of cylinders, cylinder configuration, cooling method, number of valves, valve configuration and control systems, difference in maximum horsepower and the corresponding rated engine speed not exceeding 20%( if differs only due to different engine mappings or different motor driving setting but for the same construction, these vehicles may be regarded as from the same type); moreover, the electric motor of motor vehicle with the same type and slot-pole configuration and produced by the same manufacturer that can be considered the same basic engine type.

III. “Silencing System”: Thecharacteristics of silencing system of motor vehicles shall be the same as trade names or marks, characteristics of the materials (exclude coating), shape or size, operating principles, assembly method, and number of system or components.Silencing system means a complete set of components necessary for limiting the sound produced by an engine, its intake and its exhaust (the exhaust manifold(s), the catalyst(s) and emission after-treatment device(s) are not considered part of the silencing system.

For vehicle types of categories M1, N1, M2≤ 3.5 tons gross vehicle weight complied with requirements of 6th period and later periods, the principles of representative vehicle selection are as follows:

| Ranking of selection | Selection item | Factors for selection |
|---|---|---|
| 1 | Maximum engine horsepower | Lower |
| 2 | Inspected vehicle weight | Higher |
| 3 | Tested gear for deceleration speed ratio | Longer |

For vehicle types of categories M2 > 3.5 tons gross vehicle weight, M3, N2 and N3 complied with 6th period and later periods, the guidelines for Engine Compartment, Basic Engine Type, and Target Conditions at Wide-Open Throttlepertaining to same vehicle configurations and representative vehicle selection are as follows:

I. “Engine Compartment”:The shape or materials of the compartment for engine, electric motor, or electric motor driver and its soundproofing shall be the same.

II. “Basic Engine Type” means a motor vehicle engine with the same combustion cycle, reciprocating or rotary piston, fuel control system, cylinder capacity volume, number of cylinders, cylinder configuration, cooling method, number of valves, valve configuration and control systems, difference in maximum horsepower and the corresponding rated engine speed not exceeding 20%( if differs only due to different engine mappings or different motor driving setting but for the same construction, these vehicles may be regarded as from the same type); moreover, the electric motor of motor vehicle with the same type and slot-pole configuration and produced by the same manufacturer that can be considered the same basic engine type.

III. “Target Conditions at Wide-Open Throttle” means the entry conditions described according tothe test procedure designated by the central competent authority, including the exit vehicle speed and engine speed of motor vehicles during wide-open throttle accelerated noise test process.

For vehicle types of categoriesM2 > 3.5 tons gross vehicle weight, M3, N2 and N3complied with requirements of 6th period and later periods, the principles of representative vehicle selection are as follows:

| Ranking of selection | Selection item | Factors for selection |
|---|---|---|
| 1 | Maximum engine horsepower | Lower |