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Specification for the Maintenance of Public Bus

公共汽车维护技术规范

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Specification for the Maintenance of Public Bus

1 Scope

This Standard specifies the general rules, grading and cycle, basic maintenance operations, quality guarantee, and the like requirements for the maintenance of public bus.

This Standard is applicable to the bus under use (except the fully electric bus).

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 5624 Motor Vehicle Maintenance and Repair Terms

GB 7258 Safety Specifications for Power-Driven Vehicles Operating on Roads

GB 9656 Safety Glasses for Road Vehicles (for Certification)

GB/T 18344 Specification for the Inspection and Maintenance of Motor Vehicle

GB 18565 Composite Performance Requirement and Detecting Methods for Road Transport Vehicles

GB/T 27876 Technical Specification for the Maintenance of Compressed Natural Gas Vehicle

GB/T 27877 Technical Specification for the Maintenance of Liquefied Petroleum Gas Vehicle

JT/T 1009 Technical Specification for the Maintenance of Liquefied Natural Gas Vehicle

JT/T 1029 Technical Specifications for the Maintenance of Hybrid Electric Vehicle

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB 7258 and

GB/T 5624 and the following apply.

4 General Rules

4.1 The basic maintenance operation of the public bus shall be carried out in accordance with Clause 6. For the equipment and parts with special maintenance requirements, they shall be maintained according to the vehicle maintenance manual and instruction manual.

4.2 Particular maintenance of special equipment for fuel supply public buses such as LNG, CNG and LPG shall be implemented as specified in JT/T 1009, GB/T 27876, GB/T 27877.

4.3 Particular maintenance of the electric part of hybrid electric bus shall be implemented as specified in JT/T 1029.

4.4 According to the actual use conditions of the vehicle, combined with secondary maintenance, perform the special maintenance of the bus body and assembly interchange operations.

5 Maintenance Grading and Cycle

5.1 The bus maintenance can be divided into routine maintenance, primary maintenance and secondary maintenance.

5.2 The primary and secondary maintenance cycle of the bus shall be determined according to the vehicle type, mileage, use conditions, use ages, and the like factors, combined with relevant national standards, vehicle maintenance manuals, and instruction manuals.

6 Basic Maintenance Operation Contents

6.1 Routine maintenance

6.1.1 The routine maintenance shall be carried out before, during and after the vehicle running.

6.1.2 The routine maintenance mainly focuses on the cleaning, replenishment and safety performance inspection; the operation items and technical requirements are shown in Table 1.

6.1.3 If problems are found during the routine maintenance, they shall be repaired in time.

		noise; no foam for steering hydraulic oil, no spillage
Wheel	Check the appearance and air pressure of the tire	The tire crown and sidewall are free of cracks, bumps, foreign matter penetration and abnormal wearing; the tire air pressure is normal
	Check the bolts and nuts of wheel and half-axle	Intact, tight and without looseness
Lighting, signaling devices and instruments	Check headlights	The headlights are intact, effective; the surface is clean; near and far light change normally
	Check signal indicating device	Turning lights, brake lights, reversing lights, position lights, danger warning lights are intake, effective; and their surfaces are clean
	Check the horn	The function is normal
	Check the instrument	The instrument panel is firm, the function is normal; data meet the driving requirements of the vehicle

6.2 Primary maintenance

The primary maintenance mainly focuses on lubrication and fastening; and checking the safety components in the relevant systems such as braking, steering, etc. The operation items and technical requirements can refer to Tables 1 and 2.

Table 2 – Operation Items and Technical Requirements Added for Primary Maintenance

Operation items	Operation contents	Technical requirements
Filter	Clean or replace air filter (engine, air compressor, crankcase ventilation system) oil-water separator discharge	The filter is clean; the liner is not broken; the filter element is not damaged. The filter is securely mounted and sealed.
Working fluid	Check the working fluids such as lubrication oil, coolant, brake fluid and booster oil, etc., replace and replenish as appropriate	No leakage, liquid level meets the requirements
Engine and ancillary device	a) Check the bolts and nuts connecting to engine bearings, radiators, oil pans, pumps, air conditioning compressor, air compressor, battery, starter, generator, and the like	a)The bolts and nuts connecting to each component are fastened; the lock pin, washer and rubber pad are in good conditions; each part is clean;

		the bearing has no overheating phenomenon; the sleeve and spline slide smoothly; without looseness; the spline and dust cover are intact; the lubrication is good
Axle	a) Check the appearance;	a) No cracks or looseness;
	b) Check the lubricant level and replenish it as appropriate;	b) No leakage; the lubricant level meets the requirements;
	c) Check the vent plug	c) Vent plug is clean and unblocked

Table 2 – Continued

Operation items	Operation contents	Technical requirements
Braking system	a) Check and adjust the free travel and fixing pin of the pedal;	a) The free travel of the brake pedal meets the requirements; fixing pin fixes firmly;
	b) Check the working condition and sealing performance of the brake master pump;	b) The brake master pump works normally and there is no oil or gas leakage;
	c) Check the appearance and drainage of the air reservoir;	c) The appearance is good, no gas leakage, no water accumulation;
	d) Check the working condition of the sub-pump;	d) The sub-pump works normally; no oil or gas leakage; the stroke of the push rod meets the requirements;
	e) Check the pipeline and fittings;	e) The pipes and joints are in good condition; and securely fixed;
	f) Check the brake clearance; and adjust it as appropriate;	f) The brake clearance meets the requirements;
	g) Clean the outside of the retarder and check the oil and speed sensor clearance; shaft does not move in radial direction;	g) The retarder is clean; hydraulic retarder oil level meets the requirements; the eddy current retarder speed sensor and the rotor clearance meet the requirements; and shaft does not move in radial direction
Wheels and tires	a) Check the rim and retaining ring for cracks and damage;	a) The rim and retaining ring are free of cracks and deformation;
	b) Check the appearance and air pressure of the tire;	b) The appearance of the tire is intact, no obvious wear; the pattern depth and air pressure shall meet the requirements; the valve cap is complete; the valve seat is free of air leakage;
	c) Check the tightening condition of the bolts and nuts of the wheel	c) The tightening torque of the wheel bolts and nuts meet the requirements
Suspension	a) Check the conditions of steel plate springs and bolts;	a) The steel plate is free of fragments, incompleteness, displacement and deformation; the bolts and nuts are intact,

exhaust pipe, muffler, exhaust gas aftertreatment device	tighten the bolts and nuts;	damage; gasket is intact, no air leakage;
	b) Check urea tank and particulate trap; replenish, clean or replace filter element as appropriate	b) The exhaust gas aftertreatment device is functioning normally
Supercharger, intercooler	Check and clean the supercharger and intercooler	The supercharger insulation component is complete; the supercharger runs normally; no abnormal sound, no leakage; the intercooler heat sink is clean; pipeline is not aging; connection is reliable; sealing is good
Air compressor and dryer	a) Clean and check the air compressor and drying cylinder;	a) The appearance is clean; the base is not broken; the inlet and outlet oil pipes are intact; no oil leakage;
	b) Replace dryer filter element as appropriate	b) The dryer is no air leakage
Steering system	a) Check the steering wheel and shaft;	a) The steering wheel and the steering shaft are connected reliably; the free travel of the steering wheel meets the requirements; the steering shaft and the universal joint are free of cracks; connect reliably;
	b) Check the appearance of the steering gear whether there is no abnormal noise, no oil leakage; replace the sealing ring as appropriate;	b) The steering gear housing has no cracks, no oil leakage;
	c) Check the steering arm rocker;	c) The steering arm rocker is free of deformation; the lock is effective;
	d) Check the horizontal tie rod and knuckle arm;	d) The horizontal tie rod is free of deformation, crack, tailor welding phenomena; the ball pin is free of cracks, no looseness; the knuckle thread is intact; the nuts are not moved significantly in radial direction; the matching clearance between knuckle diameter and bearing meets the requirements;
	e) Check the steering knuckle seal	e) The oil seal is intact without oil leakage
Transmission, main retarder, differential	a) Check and adjust the transmission operating mechanism;	a) The operating mechanism is functioning normally; no abnormal sound; no jump gear or disorder phenomena; the transmission and main retarder work without abnormal

	f) Check the brake shoe return spring;	f) The return spring is free of distortion, shackle damage, loss of elasticity, change in free length;
	g) Check the hub, brake drum and bearing outer race;	g) The hub is free of cracks or damage. The outer race of the bearing is not loose, no damage. The brake drum has no cracks, no grooves, or obvious deformation; the outer edge is not higher than the working surface;
	h) When installing the hub assembly, adjust the bearing clearance and brake clearance	h) When installing the hub assembly, the brake shoes and brake drum surface are clean, no oil stains; the hub rotates flexibly no axial clearance; the gap between the brake shoe friction plate and the brake drum meets the requirements
Disc brake	a) Check the wearing of brake lining and brake disc;	a) The wearing of the brake lining and brake disc shall be within the range specified by the marking or required by the manufacturer; their friction working surface is free of oil stain, cracks, out-of-round, grooves, and the like defects;
	b) Check the clearance between the brake lining and brake disc, and the adjuster;	b) Brake clearance adjustment is functioning effectively; the brake clearance between the friction plate and brake disc meets the requirements;
	c) Check the brake caliper	c) The brake caliper is stable; there is no oil leakage; the brake caliper guide pin is free of cracks or damage
Brake system and other components	a) Check the blow-down valve of the air reservoir; check the function of the dryer; replace the desiccant as per the specified mileage or time;	a) The air reservoir is installed firmly; blow-down valve is smooth, well-sealed; the dryer function is normal; the drain valve is smooth;
	b) Check and adjust the free travel of the brake pedal;	b) The free travel of the brake pedal meets the requirements;
	c) Check the parking brake performance; adjust the operating mechanism;	c) The parking brake function is normal; the operating mechanism is complete, flexible, and effective;
	d) Check the spring energy storage brake;	d) The spring energy storage brake self-locking device is effective at low air pressure;
	e) Check the connection line; clean the wheel speed sensor	e) The connection lines and connectors are not loose; the wheel speed sensor is clean

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