

## KNOW YOUR BUS



Component	Function
Front End	Includes headlights, mirrors, and front bumper.
Engine	Converts fuel into mechanical energy to power the bus.
Transmission	Transfers power from the engine to the drive shaft.
Drive Shaft	Transmits power from the transmission to the rear end.
Rear End	Includes the rear axle, differential, and rear suspension.
Brakes	Stop the bus by converting kinetic energy into heat.
Steering	Allows the driver to control the direction of the bus.
Suspension	Supports the weight of the bus and provides a smooth ride.
Wheels	Support the bus and allow it to move.
Tires	Provide traction and absorb road irregularities.
Exhaust	Removes combustion byproducts from the engine.
Fuel Tank	Stores fuel for the engine.
Water Tank	Stores water for the cooling system.
Air Filter	Filters incoming air to prevent contaminants from entering the engine.
Oil Pan	Collects excess oil from the engine.
Crankshaft	Converts the up-and-down motion of the pistons into a rotating motion.
Pistons	Push down on the combustion chamber to create power.
Cylinders	Where the combustion of fuel takes place.
Valves	Allow fresh air to enter and exhaust to leave the cylinders.
Camshaft	Controls the opening and closing of the valves.
Timing Belt	Synchronizes the rotation of the crankshaft and camshaft.
Timing Chain	Another method of synchronizing the crankshaft and camshaft.
Water Pump	Circulates coolant through the engine and radiator.
Alternator	Generates electricity to power the bus's electrical system.
Generator	Another method of generating electricity.
Starter Motor	Turns the engine over to start it.
Ignition Switch	Controls the flow of electricity to the ignition system.
Ignition Coil	Increases the voltage of the spark plug's spark.
Spark Plugs	Ignite the fuel-air mixture in the cylinders.
Catalytic Converter	Reduces harmful pollutants in the exhaust.
Muffler	Reduces the noise of the exhaust system.
Exhaust Manifold	Collects exhaust from the cylinders.
Exhaust Pipes	Carry exhaust away from the engine.
Exhaust Flange	Connects the exhaust pipes to the manifold.
Exhaust Gaskets	Seal the joints in the exhaust system.
Exhaust Bolts	Secure the exhaust components.
Exhaust Nuts	Secure the exhaust components.
Exhaust Washers	Provide a flat surface for the bolts and nuts.
Exhaust Spacers	Adjust the distance between exhaust components.
Exhaust Hangers	Support the weight of the exhaust system.
Exhaust Brackets	Secure the exhaust components to the frame.
Exhaust Supports	Provide additional support for the exhaust system.
Exhaust Anchors	Secure the exhaust system to the frame.
Exhaust Clips	Secure the exhaust system to the frame.
Exhaust Bands	Secure the exhaust system to the frame.
Exhaust Straps	Secure the exhaust system to the frame.
Exhaust Chains	Secure the exhaust system to the frame.
Exhaust Links	Secure the exhaust system to the frame.
Exhaust Pins	Secure the exhaust system to the frame.
Exhaust Bushings	Reduce friction between the exhaust system and the frame.
Exhaust Sleeves	Protect the exhaust system from damage.
Exhaust Shields	Protect the exhaust system from heat.
Exhaust Guards	Protect the exhaust system from damage.
Exhaust Covers	Protect the exhaust system from damage.
Exhaust Caps	Protect the exhaust system from damage.
Exhaust End Caps	Protect the exhaust system from damage.