

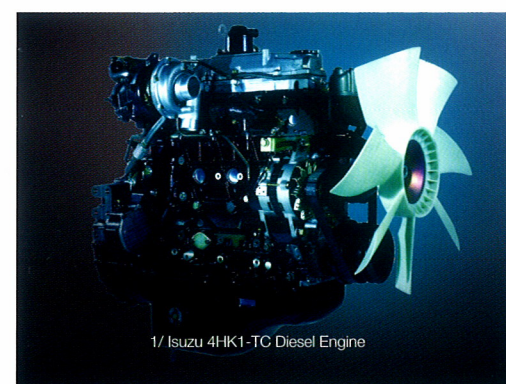
ECO-FRIENDLINESS

Quest for the enhanced eco-friendliness with a clean diesel engine

Clean diesel engine

Nitrogen oxides (NOx) and particulate matter (PM) have been reduced substantially with the application of the eco-friendly diesel engine.

* This diesel engine with turbocharger and intercooler as standards has an increased rated output to perform high productivity.
* The rated speed is as low as 2,000 rpm, making this engine more durable than ever.



Total displacement	Rated output	Max. torque
5.193cc	87.0kW at 2,000rpm (Gross)	486.7N-m at 1,500rpm (Gross)

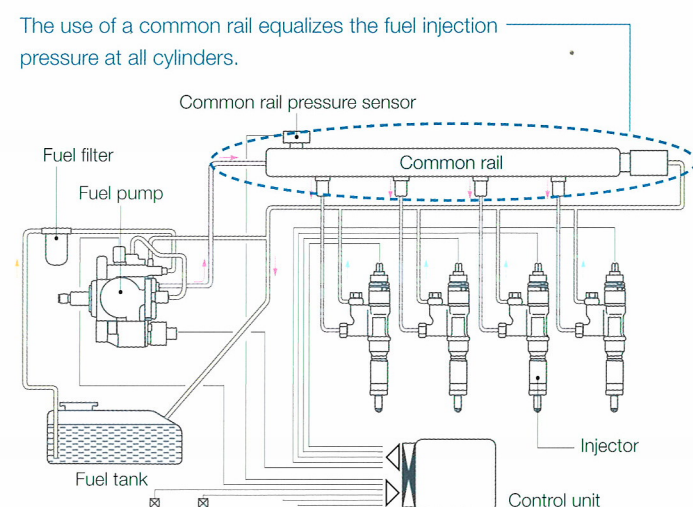
Use of advanced engine technologies: common rail fuel injection system and electronic speed control.

Fuel consumption has been reduced **8%** (source: internal data)

Common rail fuel injection system

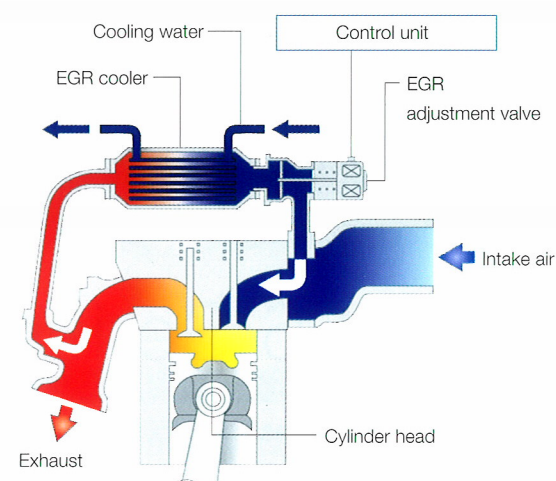
The common rail fuel injection system uses a single fuel pump to put the fuel under extremely high pressure. Then, the fuel is distributed through the common rail to each cylinder under high and consistent pressure. The injector for each cylinder is electronically controlled, to deliver the optimal amount of fuel in timely and precisely manner, to suit the engine's immediate operating conditions. Optimized fuel combustion substantially reduces the amount of pollutants in the exhaust gas. It also helps improve fuel economy and reduces engine vibration.

Note: Use only JIS K-2204 diesel fuel or equivalent; otherwise the engine may be damaged and fail.



Cooled exhaust gas recirculation (EGR) system

Cooled exhaust gas recirculation (EGR) is a technique for reducing nitrogen oxide (NOx) emissions by mixing a portion of an engine's exhaust gas with the intake air to reduce the concentration of oxygen in the combustion chamber. This helps reduce the temperature during combustion, which lowers the formation of NOx. In addition, the EGR cooler reduces the exhaust temperature, while the fuel to air ratio control system uses a feedback loop to control the fuel/air mixture supplied to the engine, reducing the formation of NOx even more and improving fuel economy.



The EGR system cools part of the exhaust and mixes it with the intake air to achieve more efficient fuel combustion when the engine is running at low speeds.

OPERATOR COMFORT

Quest for improved work efficiency through advanced features

Easier operation

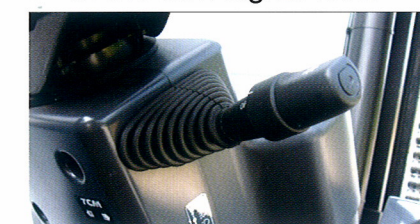


1 Easy-to-read meter panel



The meter panel is easy to read at a glance. The LED indicators are clear and have long life.

2 The light switch is combined in the turn signal lever



The light switch has been integrated with the turn signal lever for easier operation.

3 Auto-return turn signal lever

The turn signal lever returns automatically to neutral when the steering wheel is returned to the straight-ahead position.

5 Automatic correction of steering wheel knob deviation

Fully-hydraulic power steering automatically allow the steering wheel to return to the center position you set when traveling. On this truck, however, any deviation from the steering wheel center position is automatically corrected, back to the original center position.

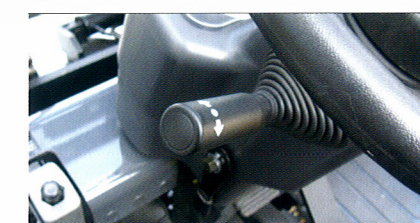
7 Optimized mast tilt speed

The control valve has a bleed-off circuit to reduce the mast tilting speed, for fine tuning the mast stop position when tilting the mast forward or back.

4 Fully-hydraulic power steering

Complete static steering is now available with the fully hydraulic power steering system.

6 Electric directional control lever



The electric directional control lever makes it easy to change the direction of travel.

Mast tilt speeds (Previous models → New models)

Forward 2.8 ▶ 3.0 seconds Backward 1.6 ▶ 3.0 seconds (L1F6F100U)

SAFETY

Quest for safer operation through ergonomics

Improved safety

Traveling interlock system

The traveling interlock system prevents the truck from moving if the operator gets out of the operator's seat. A buzzer sounds if the operator leaves the seat while the starter switch is on. After 3 seconds, the transmission will be locked in neutral and the warning light will come on.



* The interlock system only shifts the transmission into neutral; it does not engage the brakes. When leaving the truck, always apply the parking brake.

Wider range of forward visibility

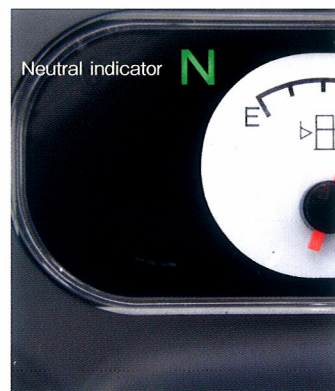
Forward visibility, including the view of fork tips from the operator's seat, has been improved with the super-wide carriage.



Remarkable lifting speed in the class

In addition to the application of direct fuel injection system, engine output has been increased with a turbocharger and an intercooler, providing remarkable lifting speed in the class.

Neutral start safety mechanism



With the neutral start safety mechanism, engine will start only if the directional control lever is in the neutral position. This prevents the truck from moving abruptly when the starter switch is turned. Also, a neutral indicator has been installed on the meter panel, to allow the operator to check the position of the directional control lever.

Safety seat with side supports

1F6 Series has also safety seat with side supports. To improve operator's comfort, seat may be adjusted depending on the operator's weight, reclined and moved back and force. A convenient document pocket has been also available for this seat on the back.



Overheating prevention

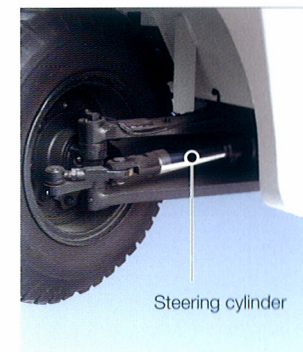
A warning light installed in the truck will inform the operator in case of overheating. If the coolant temperature rises excessively, the engine output is automatically reduced to prevent the engine from serious damage.
(The warning light comes on when the engine has overheated.)

ECONOMY

Quest for better economy through superb serviceability

Easier to service

Rear axle with a built-in cylinder



The rear axle has a built-in steering cylinder. Its simple design with a smaller number of service points allows quick service operations and reduced downtime.

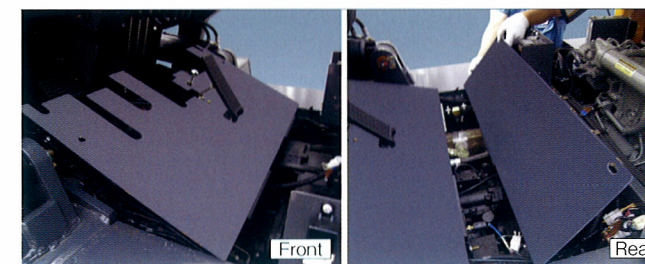
Engine hood has a gas-spring support



The engine hood has a gas-spring support, so that the operator can open and close the hood easily. The support also has a fail-safe stopper, so the hood won't shut unexpectedly.

Gas-spring hood support

Boltless floorboards are easy to remove and reinstall



The front and rear floorboards can be removed and reinstalled easily, without any tools.

Pen holder and clipboard



A pen holder and a plastic clipboard to hold sheets of paper are available for operator's convenience.

Standard equipment

- Operator's seat
- Horn
- Steering wheel
- Directional control lever
- Parking brake lever
- Brake pedal (inching pedal)
- Brake pedal
- Accelerator pedal
- Turn signal lever and lighting switch
- Lift lever
- Tilt lever
- Starter switch
- Traveling speed selection switch
- Engine warning light
- Fuel level warning light
- Engine preheating indicator light
- Interlock warning light
- Neutral start indicator light
- Fuel level indicator
- Hour meter
- Cooling water temperature gauge
- Engine oil pressure warning light
- Charge warning light

Optional equipment for load handling

- Long fork
- Load grab
- Fork extension sleeve
- Fork positioner
- Manual fork positioner
- Hinged fork
- Scoop for hinged fork
- Ram
- Rotating fork
- Side shifter
- Wide carriage
- Full-free mast
- Full-free three-stage mast
- High-Lo mast

Optional equipment (for truck body)

- "J" lug tire
- "Unique" tire ("Super Lug")
- "Unique" tire ("Softone")
- Overhead guard-mounted air cleaner (w. precleaner)
- Double-element air cleaner
- Radiator dust screen
- Overhead guard with front windshield (w/ wiper)
- Steel cabin
- Steel cabin (w. air conditioner)
- Car heater
- Different lever arrangement
- Speedometer
- Torque converter oil pressure gauge
- OK monitors
- Rear work light
- Yellow beacon light (140 mm in diameter)
- Yellow beacon light (170 mm in diameter)
- Back-up buzzer (high volume level type)
- Mast-mounted lamps (w. lamp guard)
- Mast tilt gauge
- Fire extinguisher
- Certified inspection specification (incl. speedometer)
- Upright muffler
- Tilt cylinder boot
- Three-valve manifold
- Four-valve manifold
- Three-valve manifold for VM mast piping
- Four-valve manifold for VM mast piping