



SERVICE MANUAL

FG35

FD35

FG40

FD40

FD45

FD50

FD50C

NOTE

For use with the 6G72
Gasoline Engine Service Manual.

For use with the S6S
Diesel Engine Service Manual.

**CHASSIS
MAST**

FOREWORD

This service manual is a guide to servicing of Mitsubishi Lift Trucks. The instructions are grouped by systems to serve the convenience of your ready reference.

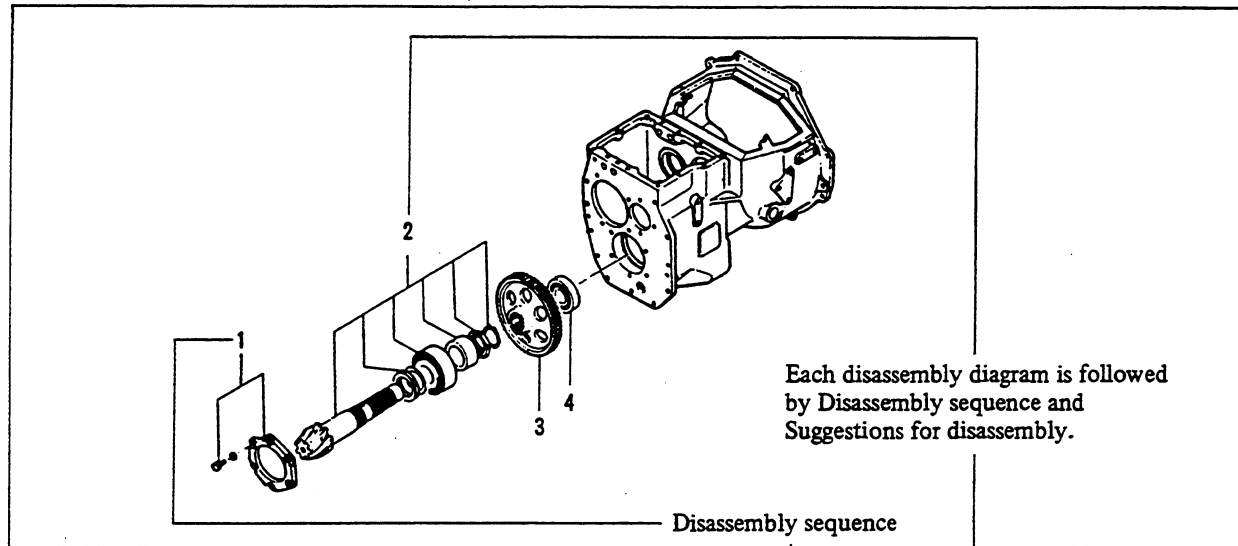
Long productive life of your lift trucks depends to a great extent on correct servicing — the servicing consistent with what you will learn from this service manual. We hope you read the respective sections of this manual carefully and know all the components you will work on before attempting to start a test, repair or rebuild job.

The descriptions, illustrations and specifications contained in this manual were of the trucks of serial numbers in effect at the time it was approved for printing. Mitsubishi reserves the right to change specifications or design without notice and without incurring obligation.

The gasoline models (FG35/FG40) are powered by Mitsubishi 6G72-32FD gasoline engine. The diesel models (FD35/FD40/FD45/FD50C/FD50) are powered by Mitsubishi S6S diesel engine.

HOW TO READ THIS MANUAL

Disassembly diagram (example)

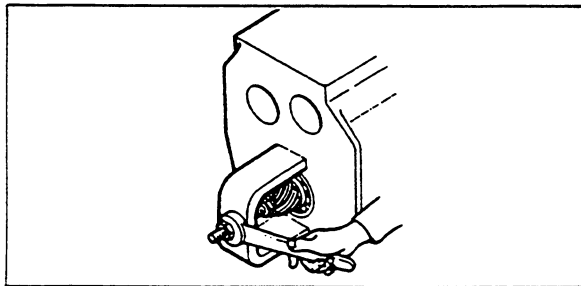


1 Cover [bolt, washer] (part name)

2 Output shaft (part name)

Suggestion for disassembly

(1) Output shaft removal



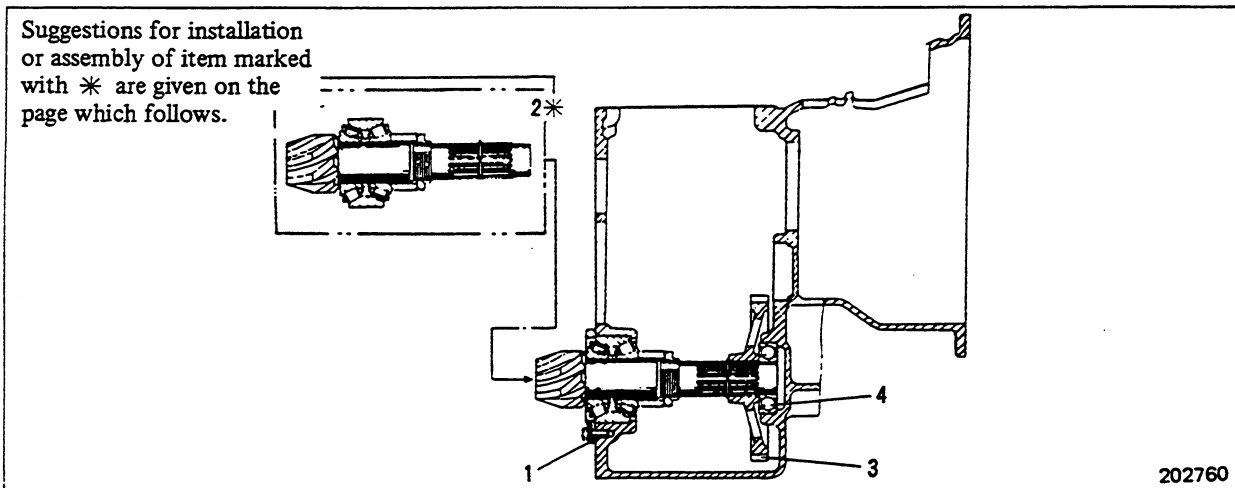
Unit: mm [in.]

| | | |
|---------------------------------------|---|--|
| Clearance between cylinder and piston | A | 0.020 to 0.105 [0.000 79 to 0.004 13] |
| | B | 0.15 [0.005 9] |

A: Assembly standard

B: Repair or service limit

Reassembly diagram (example)



Reassembly sequence

4 → 2* → 3 → 1

(The same index numbering as that for disassembly is used.)

GROUP INDEX

| Group | Items involved |
|---------------------------------------|--|
| General | Serial number locations, Dimensions, Technical data |
| Cooling system | Fan removal and installation, Fan belt adjustment |
| Electrical system | Console box, Chassis electrical devices, Care of the battery, Schematic |
| Power train | Removal and installation |
| Clutches | Dry type clutch, Wet type clutch, Pressure plate assembly, Clutch booster, Clutch master cylinder, Clutch release cylinder, Adjustment |
| Manual transmission | Description, Suggestions for removal and installation, Disassembly, Inspection and repair, Reassembly |
| Powershift transmission | Torque converter, 1-speed transmission, Control valve, Automatic 2-speed transmission |
| Front axle and reduction differential | Front tires, Front axle, Reduction and differential |
| Rear axle | Rear axle, Rear tires |
| Brake system | Master cylinder, Wheel brakes, Brake booster |
| Steering system | Steering gear, Power cylinder, Flow divider |
| Hydraulic system | Tank, Pump, Control valve, Lift and tilt cylinders, Flow regulator valve, Down safety valve |
| Masts and forks | Dual-stage panoramic mast |
| Troubleshooting | |
| Service data | Maintenance standards, Periodic service chart, Periodic replacement parts, Lubrication instructions, Special tools, Inspection guide |

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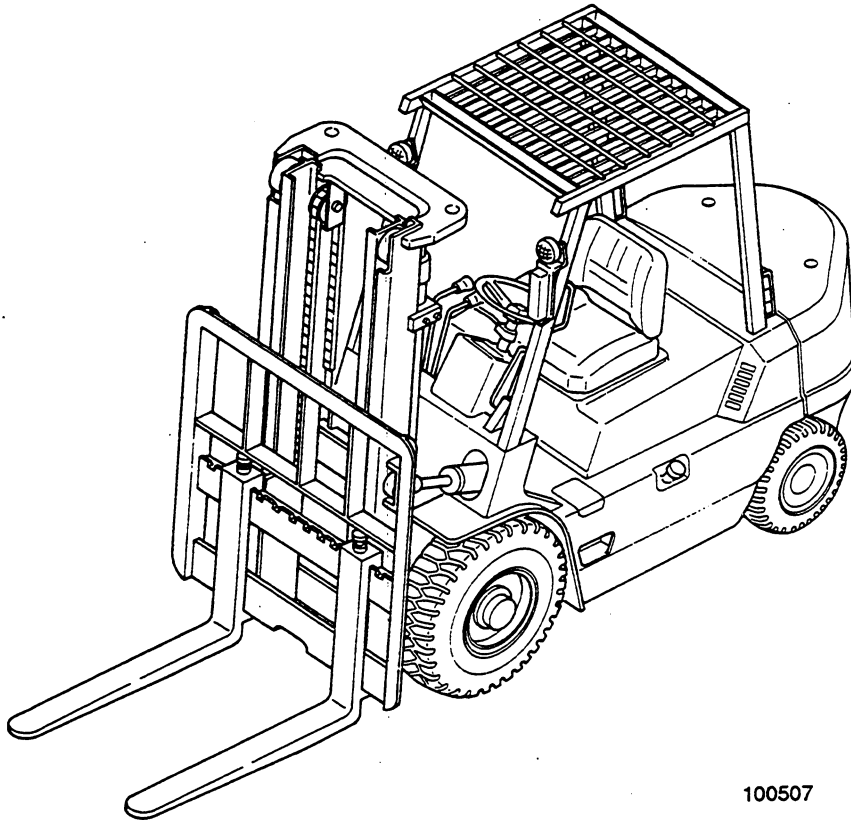
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GENERAL INFORMATION

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| TRUCK MODELS COVERED | 7 |
| SERIAL NUMBER LOCATIONS | 8 |
| DIMENSIONS | 9 |
| TECHNICAL DATA | 11 |

MODEL VIEW



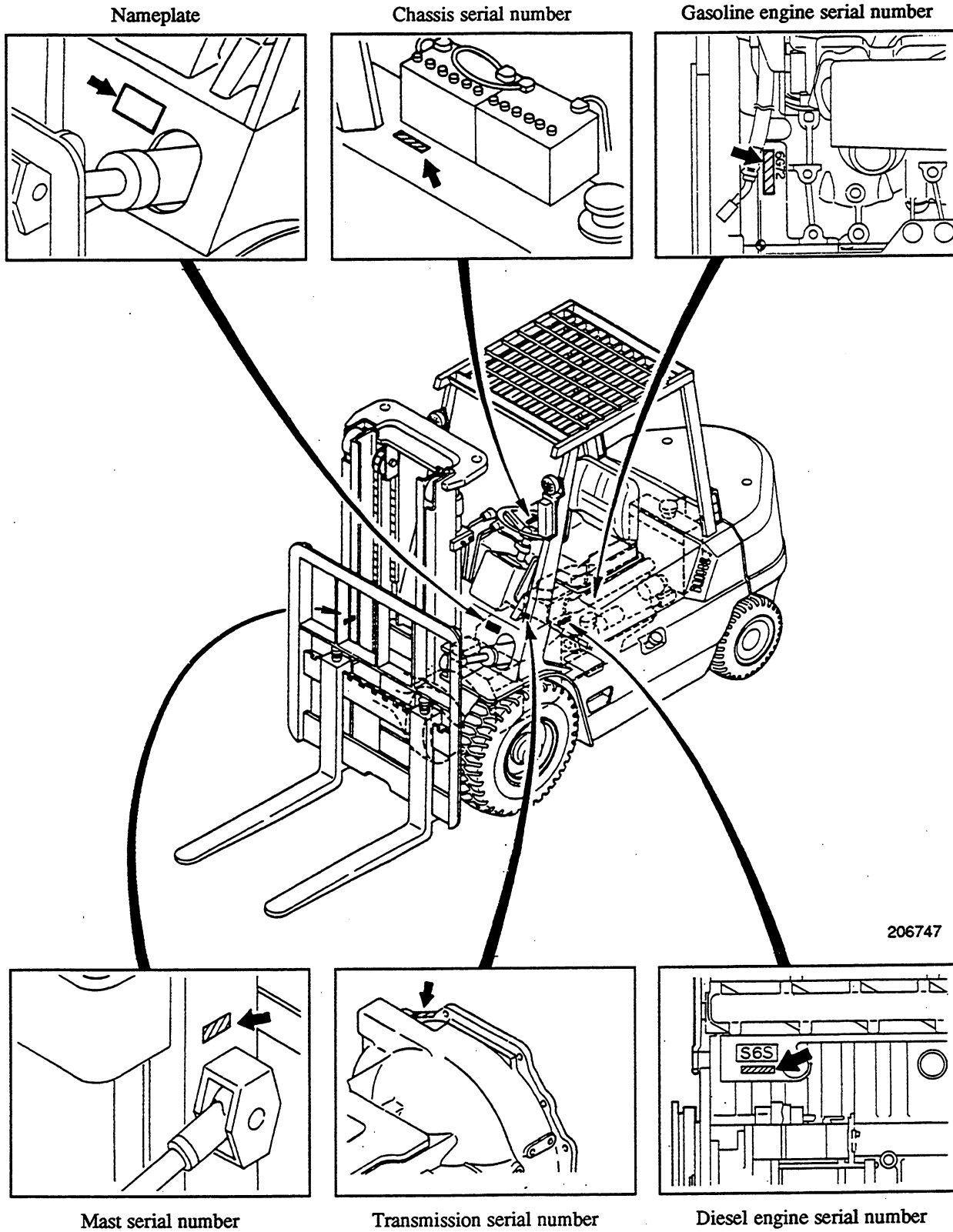
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TRUCK MODELS COVERED

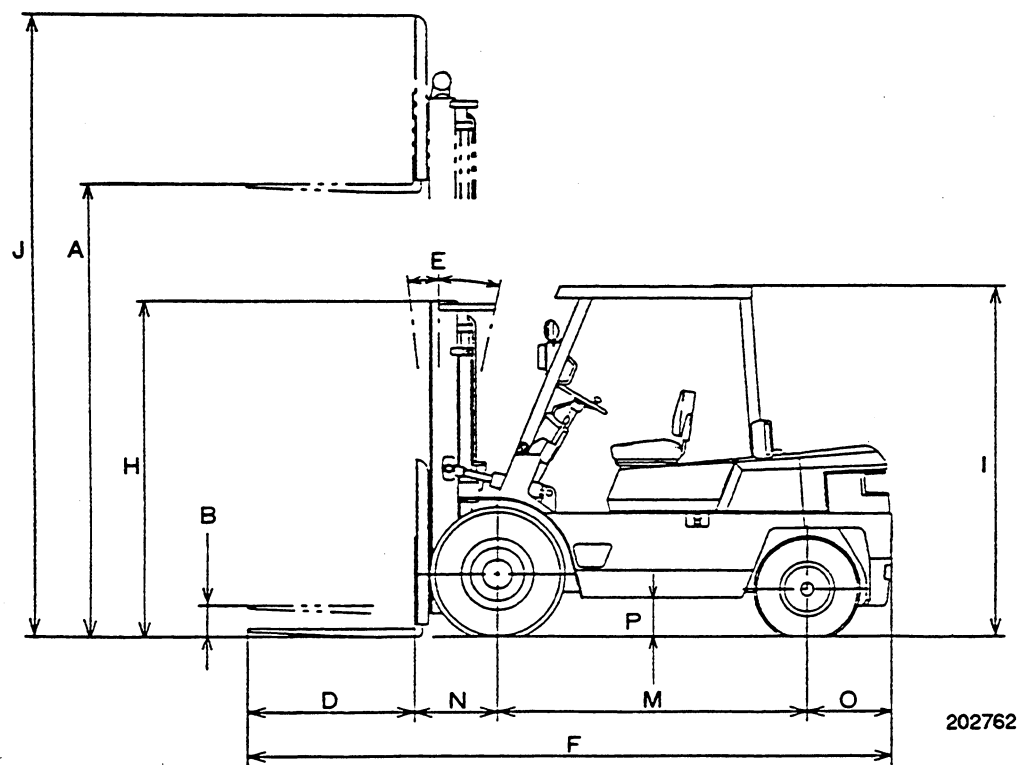
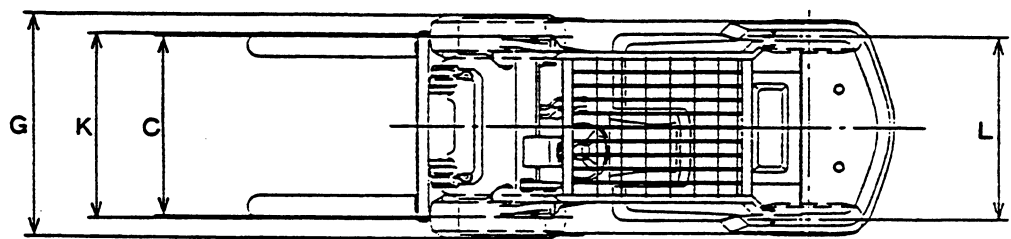
This Service Manual furnishes servicing and maintenance information for the following trucks:

| Truck model | Transmission | Model code – Serial number | Engine mounted |
|---------------|--------------|----------------------------|---------------------------------|
| FG35 | Powershift | F29 – 00011-up | Mitsubishi 6G72 gasoline engine |
| FG40 | Powershift | F29 – 50001-up | Mitsubishi 6G72 gasoline engine |
| FD35 | Manual | F19B – 00011-up | Mitsubishi S6S diesel engine |
| | Powershift | | |
| FD40 | Manual | F19B – 50001-up | Mitsubishi S6S diesel engine |
| | Powershift | | |
| FG45 | Manual | F28A – 00011up | Mitsubishi S6S diesel engine |
| | Powershift | | |
| FD50C FD50 | Powershift | F28A – 50001-up | Mitsubishi S6S diesel engine |

SERIAL NUMBER LOCATIONS



DIMENSIONS



202762

GENERAL INFORMATION

Unit: mm [in.]

| Ref. No. | Truck model | | FG35 FD35 | FG40 FD40 | FD45 | FD50C | FD50 | |
|----------|--|----------------|----------------------------|------------------|------------------|------------------|----------------------------|------------|
| A | Maximum lift | | 3 000 [118] | | | | | |
| B | Free lift | | 150 [5.9] | | 160 [6.5] | 170 [6.7] | | |
| C | Fork spread (outside) | | 300 to 1 190 [12 to 47] | | | | 300 to 1 500 [12 to 59] | |
| D | Fork length | | 1 070 [42] | | | 1 220 [48] | | |
| E | Tilt angle (forward – backward) | | 6° – 12° | | | | | |
| F | Overall length | | 4 155 [163.6] | 4 205 [165.6] | 4 335 [170.7] | 4 540 [178.7] | 4 545 [178.9] | |
| G | Overall width (outside of tires) | Single tire | 1 415 [55.7] | 1 460 [57.5] | | | | |
| | | Dual tire | 1 780 [70.1] | | | 1 965 [77.4] | | |
| H | Overall height (to top of mast lowered) | | 2 150 [84.6] | | 2 350 [92.5] | | | |
| I | Overall height (to top of overhead guard) | | 2 250 [88.6] | | | | | |
| J | Overall height (mast extended) | | 4 135 [162.8] | | | 4 285 [168.7] | | |
| K | Tread (front) | Single tire | 1 160 [45.7] | | | | | |
| | | Dual tire | 1 310 [51.6] | | | 1 445 [56.9] | | |
| L | Tread (rear) | | 1 180 [46.5] | | | | | |
| M | Wheelbase | | 2 000 [78.7] | | 2 150 [84.6] | | | |
| N | Front overhang | | 535 [21.1] | | 555 [21.9] | 560 [22] | | 565 [22.2] |
| O | Rear overhang | | 550 [21.7] | 600 [23.6] | 560 [22] | 610 [24] | | |
| P | Underclearance (at frame) | | 250 [9.8] | | | | | |

TECHNICAL DATA

| Item | | | Truck model | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 | | |
|---|---|---|----------------|--------------------------------------|---------------------------------|--------------------------|--------------------------------------|--------------------------|-----------------------------|--|
| Model code | | | | F29 {F19B} | | F28A | | | | |
| Type | | | | Standard | | | | | | |
| General | Capacity/load center, kgf/mm [lbf/in.] | | | 4 000/500 [8 000/24] | 4 000/600 [9 000/24] | 4 500/600 [10 000/24] | 5 000/600 [11 000/24] | 5 000/600 [11 000/24] | | |
| | Maximum lift, mm [in.] | | | 3 000 [118] | | | | | | |
| | Lift speed (rate load), mm/sec [fpm] | | | 450 [89] {480 [94]} | | 480 [94] | 420 [83] | | | |
| | Lowering speed (rate load), mm/sec [fpm] | | | 500 [98] | | | | | | |
| | Tilt angle (forward – backward) | | | 6° – 12° | | | | | | |
| | Free lift, mm [in.] | | | 150 [5.9] | | 165 [6.5] | 170 [6.7] | | | |
| Performance | Travel speeds, km/h [mph] | Manual transmission models (FD35 thru FD45) | Forward L to H | 9.5 to 19.5 [5.9 to 12.1] | | | <div></div> | | | |
| | | | Reverse L to H | | | | | | | |
| | | Powershift transmission models | Forward | 20 [12.4] | | | | | 14 to 24.5 [8.7 to 15.2] | |
| | | | Reverse | | | | | | | |
| | Minimum turning radius, mm [in.] | | | 2 740 [107.9] | 2 790 [109.8] | 2 920 [115] | 2 970 [116.9] | | | |
| | Steering angle | Inside | | 83° | | | | | | |
| | | Outside | | 56°33' | | | | | | |
| | Minimum intersecting aisle, mm [in.] | Single tire | | 2 360 [92.9] | 2 400 [94.5] | 2 450 [96.5] | 2 510 [98.8] | <div></div> | | |
| | | Dual tire | | 2 490 [98] | 2 520 [99.2] | 2 570 [101.2] | 2 740 [107.9] | | | |
| | Gradeability (rated load) | Manual transmission models, tan % | | {20} | {17} | 20 | <div></div> | | | |
| Powershift transmis- sion models, tan % at 2 km/h [1.2 mph] | | 25 | 32 {22} | 25 | 31 | 30 | | | | |
| Tires (size and inflation pressure) | Front, kPa (kgf/cm ²) [psi] | Single tire | | 8.25-15- 12PR(I) 686 (7) [100] | 300-15-18PR(I) 686 (7) [100] | | | <div></div> | | |
| | | Dual tire | | 7.50-16-12PR(I) 686 (7) [100] | | | 8.25-15- 12PR(I) 686 (7) [100] | | | |
| | Rear, kPa (kgf/cm ²) [psi] | | | 7.00-12-12PR(I) 686 (7) [100] | | | 7.00-12-12PR(I) 834 (8.5) [121] | | | |

GENERAL INFORMATION

| Truck model | | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 |
|-----------------|---|--|--|-------------------|---|------|
| Item | | | | | | |
| Weight, kg [lb] | Single tire (without load) | 5 170 [11 400] {5 280 [11 642]} | 5 590 [12 326] {5 700 [12 569]} | 6 170 [13 605] | 6 700 [14 774] | |
| | Dual tire (without load) | 5 280 [11 642] {5 390 [11 885]} | 5 630 [12 414] {5 740 [12 657]} | 6 210 [13 693] | 6 910 [15 237] | |
| Engine | Engine model | | 6G72-32FD {S6S} | | S6S | |
| | Manufacturer | | 6G72-32FD: Mitsubishi Motors Corporation S6S: Mitsubishi Heavy Industries, Ltd. | | | |
| | Type | | Water-cooled, 4-stroke cycle | | | |
| | No. of cylinders – arrangement | | 6G72-32FD: 6 – 60° S6S: 6 – inline | | | |
| | Type of combustion chambers | | 6G72-32FD: Semi-spherical S6S: Swirl | | | |
| | Valve arrangement | | 6G72-32FD: Overhead with overhead cam S6S: Overhead | | | |
| | Type of cylinder liners | | 6G72-32FD: Integral S6S: Dry | | | |
| | Bore × stroke, mm [in.] | | 6G72-32FD: 9.11 × 76 [3.59 × 2.99] S6S: 94 × 120 [3.70 × 4.72] | | 94 × 120 [3.70 × 4.72] | |
| | Displacement, liter [cu in.] | | 6G72-32FD: 2.972 [181] S6S: 4.996 [305] | | 4.996 [305] | |
| | Compression ratio | | 6G72-32FD: 8.9 : 1 S6S: 22 : 1 | | 22 : 1 | |
| | Rated output, PS/rpm | | 6G72-32FD: 64/2 450 S6S: 82/2 450 | | 82/2 450 | |
| | Maximum torque, N·m (kgf·m) [lbf·ft]/rpm | | 6G72-32FD: 179 (18.3) [132]/1 800 S6S: 250 (25.5) [184]/1 600 | | 250 (25.5) [184] | |
| | Dimensions (length × width × height), mm [in.] | | 6G72-32FD: 586 × 637 × 765 [23.1 × 25.1 × 30.1] S6S: 908 × 650 × 801 [35.7 × 25.6 × 31.5] | | 908 × 650 × 801 [35.7 × 25.6 × 31.5] | |
| | Weight (service), kg [lb] | | 6G72-32FD: 175 [386] S6S: 350 [772] | | 350 [772] | |
| | Installation position | | Rear | | | |
| | Intake valves | Open, BTDC | 6G72-32FD: 19° S6S: 30° | | | |
| | | Close, ABDC | 6G72-32FD: 57° S6S: 50° | | | |
| | Exhaust valves | Open, BBDC | 6G72-32FD: 57° S6S: 74° | | | |
| | | Close, ATDC | 6G72-32FD: 19° S6S: 30° | | | |

| Truck model | | | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 |
|-----------------------------|--------------------------------------|---|--|----------------|----------|-------|------|
| Item | | | | | | | |
| Engine | Valve clearance | Intake valves, mm [in.] | 6G72-32FD: 0.25 [0.009 8] (hot) S6S: 0.25 [0.009 8] (cold) | | | | |
| | | Exhaust valves, mm [in.] | | | | | |
| | Ignition | | 6G72-32FD: Spark S6S: Compression | | | | |
| | Firing order | | 6G72-32FD: 1 - 2 - 3 - 4 - 5 - 6 S6S: 1 - 5 - 3 - 6 - 2 - 4 | | | | |
| | Ignition or injection timing, BTDC | | 6G72-32FD: 5° S6S: 19° | | | | |
| | Fuel tank capacity, liter [U.S. gal] | | 105 [27.7] | | 125 [33] | | |
| | No-load minimum speed, rpm | | 6G72-32FD: 600 to 650 S6S: 650 to 700 | | | | |
| | No-load maximum speed, rpm | | 6G72-32FD: 2 650 to 2 700 S6S: 2 600 to 2 650 | | | | |
| Ignition system (6G72-32FD) | Ignition coil | Type | Mold | | | | |
| | | Manufacturer | Diamond Electric | | | | |
| | Distributor | Type | Pointless | | | | |
| | | Manufacturer | Mitsubishi Electric Corporation | | | | |
| | | Type of spark advance mechanism | Centrifugal-vacuum | | | | |
| | Spark plug | Model | W16EX-U/BP5ES | | | | |
| | | Manufacturer | Nippon Denso and NGK | | | | |
| | | Size, mm [in.] | 14 [0.55] | | | | |
| Gap, mm [in.] | | 0.7 to 0.8 [0.028 to 0.031] | | | | | |
| Fuel system (6G72-32FD) | Carburetor | Type | Downdraft | | | | |
| | | Manufacturer | Aisan Kogyo | | | | |
| | Governor | Type | Pneumatic | | | | |
| | | Manufacturer | Mikuni Kogyo | | | | |
| | Fuel pump | Type | Electromagnetic plunger | | | | |
| | | Manufacturer | Jidosha Kiki | | | | |
| | Air cleaner | Type × number | Cyclone with paper element × 1 | | | | |
| | | Manufacturer | Nippon Rokaki | | | | |
| Fuel system (S6S) | Fuel injection pump | Type | Bosch | | | | |
| | | Manufacturer | Nippon Denso | | | | |
| | | Plunger diam., mm [in.] | 6.5 [0.256] | | | | |
| | | Cam lift (one side), mm [in.] | 8 [0.31] | | | | |
| | Fuel injection nozzles | Type | Throttle | | | | |
| | | Spray holes, diam., mm [in.] | 1.0 [0.04] | | | | |
| | | Injection pressure, MPa (kgf/cm²) [psi] | 13.7 (140) [1 991] | | | | |

GENERAL INFORMATION

| Truck model | | | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 |
|-----------------------------|---|-------------------------------|---|----------------|---------------|---------------------------------|------|
| Item | | | | | | | |
| Fuel system (S6S) | Heater plugs | Type | Sheathed | | | | |
| | | Voltage – current, V – A | 22 – 4.4 | | | | |
| | Fuel pump | Type | Piston (Bosch) | | | | |
| | | Manufacturer | Nippon Denso | | | | |
| | Air cleaner | Type × number | Cyclone with paper element × 1 | | | | |
| | | Manufacturer | Nippon Rokaki | | | | |
| Lubrication system | Type | | Pressure feed | | | | |
| | Oil pump | | Trochoid type | | | | |
| | Oil filter | | Paper element type | | | | |
| | Refill capacities, liter [U.S. gal] | Oil pan | 6G72-32FD: 4.0 [1.1] | | S6S: 11 [2.9] | | |
| | | Oil filter | 0.4 [0.1] | | 1 [0.3] | | |
| | | Total | 4.4 [1.2] | | 12 [3.2] | | |
| Cooling system | Type | | Forced circulation | | | | |
| | Radiator | | Corrugated fin with pressure cap | | | | |
| | Refill capacity, liter [U.S. gal] | | 6G72-32FD: 11.85 [3.1] S6S: 11.85 [3.1] | | | | |
| | Water pump | | Centrifugal type driven by V-belt | | | | |
| | Thermostat | | Wax type | | | | |
| Battery | Type × number (Battery supplied by MCFA or MCFE) | | 48D26R × 1 {48D26R × 2} | | 48D26R × 2 | | |
| | Voltage, V | | 12 {24} | | 24 | | |
| | Capacity, Ah | | 40 | | | | |
| Alternator and regulator | Alternator type | | 3-phase AC | | | | |
| | Manufacturer | | Mitsubishi Electric Corporation | | | | |
| | Capacity, V – A | | 12 – 40 {24 – 30} | | 24 – 30 | | |
| | Voltage/current regulator | | Built-in IC type | | | | |
| Stator | Type | | Electromagnetic | | | | |
| | Manufacturer | | Mitsubishi Electric Corporation | | | | |
| | Voltage – output, V – kW | | 12 – 1.2 {24 – 5} | | 24 – 5 | | |
| Engine stop device | Control timer (FD35 thru FD50) | Setting, sec | 5 to 7 | | | | |
| | | Operating voltage, V | 16 to 30 | | | | |
| | Stop solenoid (FD35 thru FD50) | Rated current (at 24 V), A | 11.3 | | | | |
| | | Manufacturer | | | | Mitsubishi Electric Corporation | |
| | Detector (magnetic pickup) | Output, mA | | | | 180 minimum | |
| | | Gap mm [in.] | | | | 0.7 ± 0.2 [0.028 ± 0.008] | |

| Truck model | | | | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 | |
|---------------------------------|-----------------------------------|---|-------------------------------|--|---|------|-------|----------------------|--|
| Item | | | | | | | | | |
| Power train | Clutch (FD35 thru FD45) | | Type | | Dry, single disc (OP: wet type) | | | | |
| | | | Facing (OD × ID), mm [in.] | | 325 × 210 [12.8 × 8.3] (wet: 325 × 225 [12.8 × 8.9]) | | | | |
| | | | Material | | DR-8 (wet: cork) | | | | |
| | Torque converter | | Type | | 3-element, 1-stage, 2-phase | | | | |
| | | | Manufacturer's model | | Okamura M15 | | | | |
| | | | Stall torque ratio | | 3.2 | | | | |
| | Transmission | Power-shift | Control and shift | | Hydraulic and column shift | | | | |
| | | | Ratios | Forward | 4.004 | | | F1: 5.735, F2: 3.239 | |
| | | | | Reverse | 4.057 | | | R1: 5.735, R2: 3.239 | |
| | | Manual (FD35 thru FD45) | Type | | Synchro-mesh | | | | |
| | | | Shift | | Floor-shift | | | | |
| | | | Forward ratio | 1st | 8.462 | | | | |
| | | | | 2nd | 4.145 | | | | |
| | | | Reverse ratio | 1st | 8.489 | | | | |
| | | | | 2nd | 4.159 | | | | |
| | Reduction gear | Type of gear | | Spiral bevel | | | | | |
| | | Gear ratio | | 4.857 | | | | | |
| | Differ- ential | Housing | | Banjo | | | | | |
| | | Type of gear and pinion – number | Gear | Straight bevel – 2 | | | | | |
| | | | Pinion | Straight bevel – 4 | | | | | |
| Steering system | Type | | | Recirculating ball-and-nut | | | | | |
| | Gear ratio | | | 20.0 | | | | | |
| | Steering wheel diameter, mm [in.] | | | 380 [15] | | | | | |
| | Power steering | Type | | Semi-integral | | | | | |
| | | Power cylinder ID × rod diam., mm [in.] | | 55 × 25 [2.17 × 0.98] | | | | | |
| | | Effective stroke, mm [in.] | | 275 [10.8] | | | | | |
| | | Relief pressure, kPa (kgf/cm ²) [psi] | | 8.336 ⁺⁴⁹⁰ ₀ (85 ⁺⁵ ₀) [1 209 ⁺⁷¹ ₀] | | | | | |
| Flow rate, liter [U.S. gal]/min | | 17.5 ± 0.5 [4.6 ± 0.13] | | | | | | | |
| Traveling system | Front axle | | | Full-floating tubular type | | | | | |
| | Rear axle | | | Elliott type | | | | | |
| | Suspension system | Front | | Fixed type | | | | | |
| | | Rear | | Center-pivot type | | | | | |
| | Wheel alignment | Toe-in, mm [in.] | | 0 | | | | | |
| | | Camber | | 1.0° | | | | | |
| | | Caster | | 0° | | | | | |
| Kingpin inclination | | 5.0° | | | | | | | |

GENERAL INFORMATION

| Truck model | | | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 |
|------------------|---|--|--|----------------|------------------|--|-------------|
| Item | | | | | | | |
| Brake system | Service brakes | Type | Self-adjusting, duo-servo | | | | |
| | | Drum diameter, mm [in.] | 317.5 [12.50] | | | | |
| | | Lining (length × width × thick × number), mm [in.] | 351 × 60 × 6 × 2 [13.8 × 2.4 × 0.2 × 2] | | | 332 × 63 × 10 × 2 [13.1 × 2.5 × 0.4 × 2] | |
| | | Master cylinder ID, mm [in.] | 22.22 [0.874 8] | | | 25.4 [1.000] | |
| | | Wheel cylinder ID, mm [in.] | 28.58 [1.125 2] | | | 31.75 [1.250 0] | |
| | Parking brake | Type | Mechanical, mounted on wheels | | | | |
| Brake booster | | | Mastervac (vacuum suspended) | | | | |
| Body | | | Assembled-frame type | | | | |
| Hydraulic system | Hydraulic pump | Type | Gear | | | | |
| | | Manufacturer | Kayaba {Simazu} | | Simazu | | |
| | | Manufacturer's type | KFD3245 {SPG2-48} | | SPG2-48 | | |
| | | Rated discharge, liter [U.S. gal]/rpm | 110 [29.0]/2 450 {116 [30.6]/2 450} | | 116 [30.6]/2 450 | | |
| | | Drive line | Universal joint | | | | |
| | Control valve | Type | KVS | | | | |
| | | Manufacturer | Kayaba | | | | |
| | | Relief pressure, kPa (kgf/cm ²) [psi] | 19 123 ⁺⁴⁹⁰ ₀ (195 ⁺⁵ ₀) [2 773 ⁺⁷¹ ₀] | | | | |
| | Flow regulator valve | Type | Variable (Adjustable) | | | | |
| | | Regulated flow rate, liter [U.S. gal]/min | 100 [26.4] | | | 115 [30.4] | |
| | Lift cylinders | ID, mm [in.] | 65 ^{+0.1} ₀ [2.56 ^{+0.004} ₀] | | | 70 ^{+0.1} ₀ [2.76 ^{+0.004} ₀] | |
| | | Stroke, mm [in.] | 1 500 [59.06] | | | | |
| | Tilt cylinders | ID, mm [in.] | 80 ^{+0.1} ₀ [3.15 ^{+0.004} ₀] | | | 90 ^{+0.1} ₀ [3.54 ^{+0.004} ₀] | |
| | | Stroke, mm [in.] | 185 [7.28] | | | | |
| | Hydraulic tank capacity, liter [U.S. gal] | | | 58.5 [15.4] | | | 69.3 [18.3] |

| Item | | | Truck model | FG35 {FD35} | FG40 {FD40} | FD45 | FD50C | FD50 | |
|-------------------------------------|---|------------------------|-------------|---------------------------------------|--------------------------------------|---------------------------------------|--------|--------------------------------------|--|
| Mast and forks | Mast | | | Roller type CL | | | | | |
| | Mast dimensions (flange ID × thick × web thick), mm [in.] | | Outer | 118 × 23 × 14 [4.65 × 0.91 × 0.55] | | 130 × 25 × 16 [5.12 × 0.98 × 0.63] | | | |
| | | | Inner | 118 × 25 × 14 [4.65 × 0.98 × 0.55] | | | | | |
| | Main rollers | Bearing | | #6309 ball bearing | | #6310 ball bearing | | | |
| | | Diam × width, mm [in.] | | 118 × 40 [4.65 × 1.57] | | 130 × 40 [5.12 × 1.57] | | | |
| | Side rollers | Bearing | | Lubricated type needle roller bearing | | | | | |
| | | Diam × width, mm [in.] | | 52 × 36 [2.05 × 1.42] | | | | | |
| | Lift chains | | | | BL834 | | BL1023 | | |
| | Fork (length × width × thick), mm [in.] | | | | 1 070 × 150 × 50 [42 × 5.9 × 2.0] | | | 1 220 × 150 × 60 [48 × 5.9 × 2.4] | |
| Fork spread (outer width), mm [in.] | | | | 300 to 1 190 [12 to 47] | | | | 300 to 1 500 [12 to 59] | |

COOLING SYSTEM

| | |
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