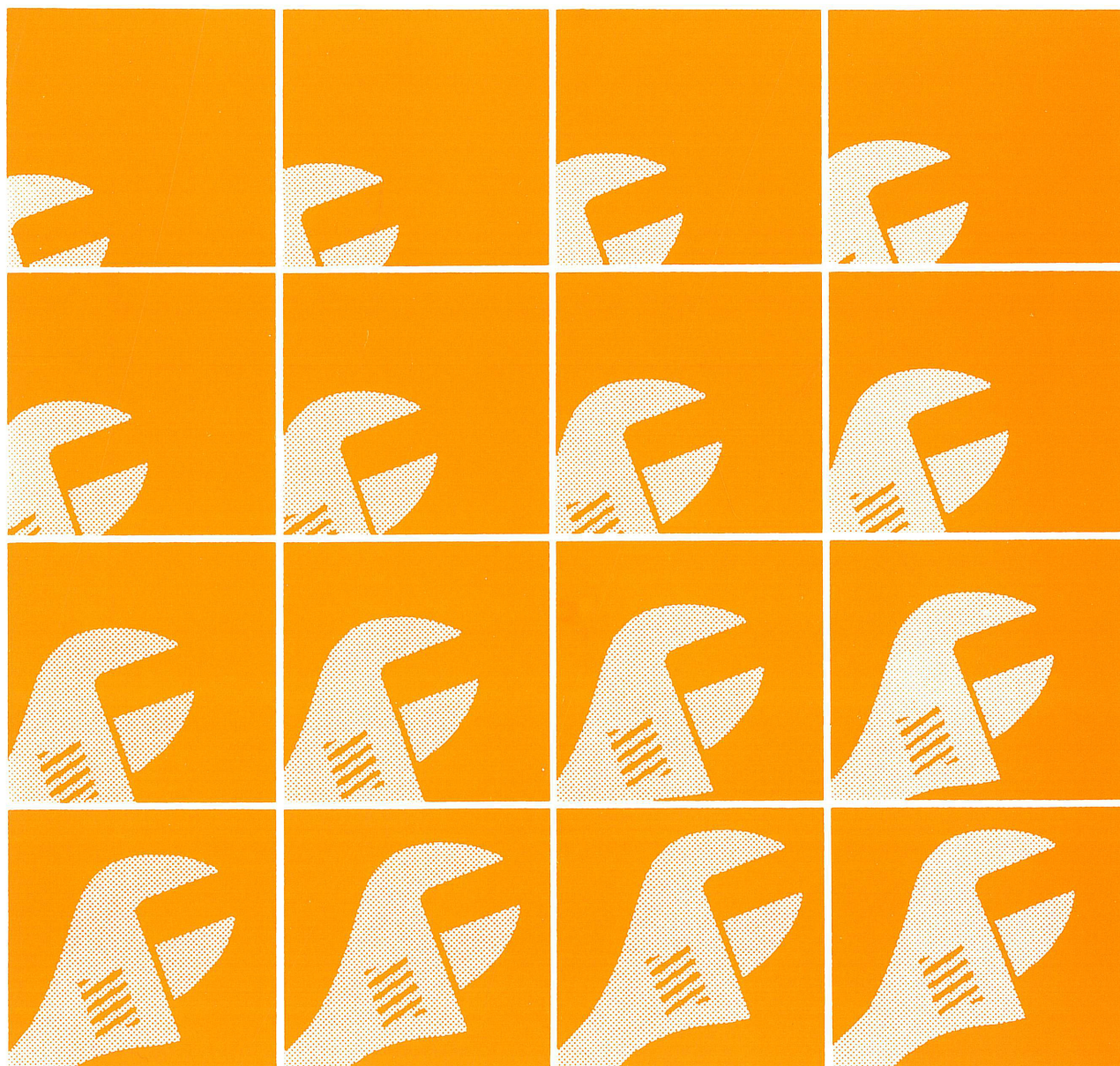




Service Manual

FE.FG 1990



FE.FG

SERVICE MANUAL

FOREWORD

This Service Manual contains maintenance and repair methods for all those who are involved in the maintenance and repair of Mitsubishi Fuso Truck FE. FG Series. Read this manual carefully as an aid to providing correct, efficient and fast maintenance. Please note, however, that due to continued vehicle improvements the specifications and numerical given for use in maintenance may change without notice. If you have any question, or encounter a problem, please do not hesitate to contact your nearby Mitsubishi Fuso Dealer or Distributor.

July 1989

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MANUAL LAYOUT – GROUP CLASSIFICATIONS

1. GROUP CLASSIFICATIONS

This Manual is divided into Groups, one for each system of the vehicle.

Gr. No.	Group Name	Description
00	General	External views, major specifications, power train table, operation performance curves, engine performance curves, servicing precautions, standard bolt and nut tightening torque table, towing precautions, vehicle identification numbers.
01	Maintenance Schedule	Maintenance schedule, simple maintenance, lubrication chart, oils and greases to use.
11	Engine	Cylinder head, valve mechanism, camshaft, pistons, crankshaft, timing gear, flywheel
12	Lubrication	Oil pump, oil filter, oil cooler
13	Fuel and Engine Control	Injection pump, injection nozzles, fuel filter, fuel tank, water separator, engine control, accelerator pedal, throttle button.
14	Cooling	Water pump, thermostat, radiator, fan.
15	Intake and Exhaust	Air cleaner, intake shutter, turbocharger, intercooler
16	Engine electrical	Starter, alternator, vacuum pump, pre-heat system
21	Clutch	Clutch, clutch control (master cylinder, power cylinder)
22	Manual Transmission	Transmission, transmission control.
23A	Automatic Transmission <M2A3>	Maintenance and inspection, removal, installation, oil seal replacement.
23B	Automatic Transmission <M2A3> (Body unit)	Automatic transmission body.
23C	Automatic Transmission <M030A4>	Maintenance and inspection, removal, installation, oil seal replacement.
25	Propeller Shaft	Propeller shaft, universal joint, center bearing.
26A	Front Axle <FE series>	Front axle, kingpins, knuckles, hub bearings.
26B	Front Axle <FG series>	Front axle, wheel hub and brake drum, knuckle and drive shaft, reduction and differential
27	Rear Axle	Rear axle, reduction and differential, hub bearings.
31	Wheels and Tires	Tire, disc wheel.
33	Front Suspension	Front suspension, leaf springs, shock absorbers, stabilizers.
34	Rear Suspension	Rear suspension, leaf springs, shock absorbers, stabilizers.
35	Brake	Brake pedal, master-vac, wheel brake (wheel cylinder, brake drum, brake shoes), exhaust brake (exhaust brake valve, power chamber).
36	Parking Brake	Parking brake (brake drum, brake shoe), parking brake control.
37	Steering	Steering wheel, power steering booster, power steering oil pump, steering linkage, tie-rods.
41	Frame	Frame inspection and maintenance.
42	Cab	Body, window glass, doors, seats.
54	Chassis electrical	Meters, gauges, switches, lamps, warning and indicator lamps, wipers
55A	Air Conditioner	Air conditioner ventilation system.
55B	Heater	Heater

Page numbers start at "1" for each section.

2. TERMINOLOGY AND UNITS

The terminology and units used in this manual are as follows.

(1) Front and back

The direction in which the vehicle normally travels is the front, the opposite end is the back.

(2) Left and right

Left and right are as usual when looking toward the front of the vehicle from the direction in which it moves.

(3) Maintenance standards terminology

- Nominal value

Standard values are used to indicate nominal design dimensions, design dimensions for single parts, standard gap between parts when assembled, and the standard performance of assemblies. Values in brackets are basic diameters.

- Limit

These are performance and strength values which cannot be exceeded. These values are necessary when repairing or replacing parts.

(4) Tightening torque

Tightening bolts and nuts too much or too little can have a large influence on performance and functions. Thus, tightening torque is specified for each location that must be tightened. When tightening must be performed in a wet condition, this is specified. If not specified, tightening is performed dry.

When tightening is not specified, tighten according to the standard bolts and nuts tightening torque table.

(5) Units

Length, weight surface area and capacity are in accordance with SI. Foot pounds and metric units are indicated in brackets. Temperatures are given in degree Celsius with degrees in Fahrenheit in brackets.

MINOR CHANGES

(on and after May, 1991)

MITSUBISHI
CANTER

FB/FC/FE/FG SERIES

INFORMATION BULLETIN

International Business Planning Department, Office of International Business

MINOR CHANGES ON MITSUBISHI CANTER FB/FC/FE/FG SERIES

We are pleased to introduce '91-Minor Changes on MITSUBISHI CANTER FB/FC/FE/FG series with the latest improvements on and after May 1991 as CBU and SKD/July 1991 as CKD base, as follows;

= Main Features of '91-Minor Changes =

A. CHASSIS

- 1. One-piece type SIDE FRAME for FE444/449[F]-W.B. : [Fig.01]
- 2. Enlarged Sub-SIDE FRAME for FE439/449 series : [Fig.02]
- 3. Upgraded FRONT SPRING specification for FB300 :

B. CAB

- 1. New CAB-STEP of Alminum grid type : for safety access to cab [Fig.03]
- 2. Upgraded rust-proof treatment for cab metal : except CKD countries [Fig.04]
- 3. New METER CLUSTER : [Fig.05]

C. BRAKE

- 1. New material of reinforcement fiber for BRAKE HOSE:
- 2. AUTO-ADJUSTER of front brake for FE series : newly available only for Europe as EC spec. (except: Portugal)

D. Others

- 1. New REVERSE WARNING BUZZER/electronic music type : newly available as OPT.

= to be continued for other items in details =

P.S. TO ALL DISTRIBUTORS OF REGIONAL MODEL COUNTRIES

You are kindly requested to consult with our representatives of marketing group about following cases by January 15th, 1991 (at the latest).

- [1] If you want to apply some items of specification change:
(except: items of '91-Minor Changes)
- [2] If you want to introduce '91-Minor Changes behind schedule:
TO ALL DISTRIBUTORS OF KD MODEL COUNTRIES and/or OF CBU MODEL YEAR COUNTRIES
- [3] If you need any special stock volume prior to '91-Minor Changes:

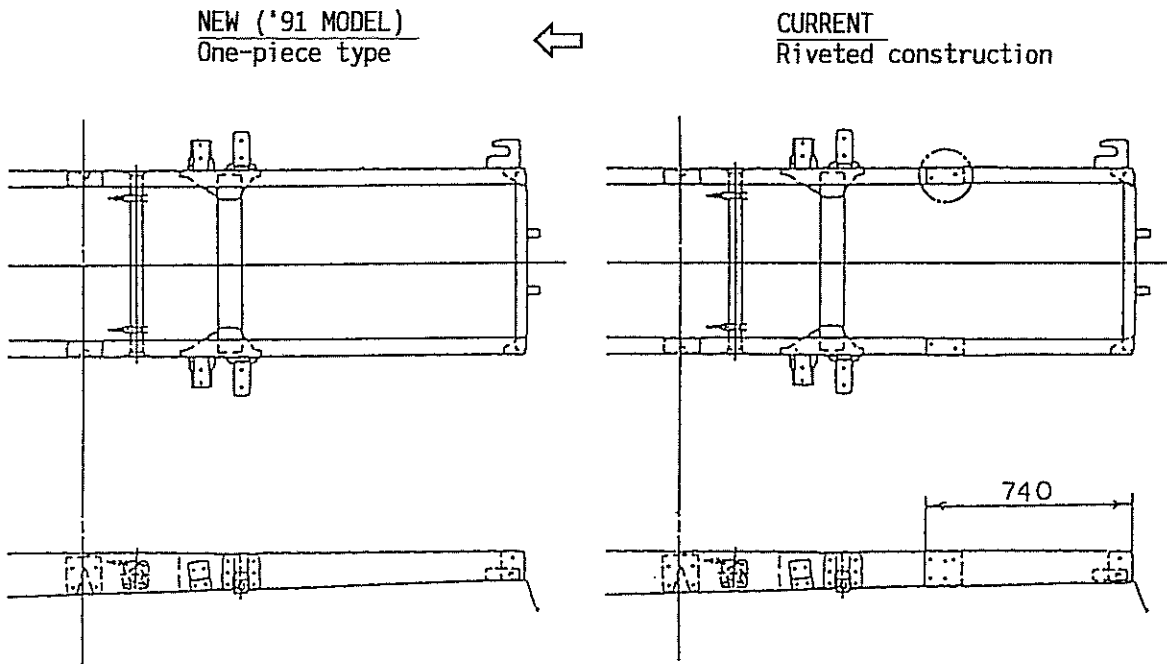
= IMPROVED ITEMS =

NOTE: ○:applicable (INTERCHANGEABILITY: ○=OK, FOR REFERENCE)
 (INTERCHANGEABILITY: ●=NO, FOR REFERENCE)
 -:inapplicable

A. CHASSIS

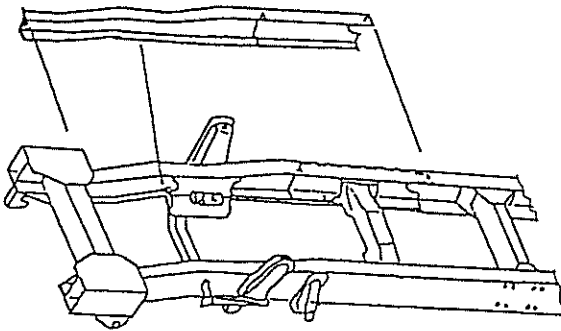
NO	IMPROVED ITEMS	CONTENTS	APPLICABLE MODEL				
			FB	FC	FE	FG	
1.	One-piece type SIDE FRAME for FE444/449[F]- W.B. [Fig.01]	+ adoption of One-piece type SIDE FRAME instead of riveted construction at rearward	-	-	○	-	
2.	Enlarged Sub-SIDE FRAME for FE439/449 series [Fig.02]	+ adoption of enlarged Sub-SIDE FRAME for wide cab CANTER	-	-	●	-	
3.	Upgraded FRONT-SPRING spec. for FB300AAC/CW	+ adoption of upgraded springs	●	-	-	-	
		Thickness[mm] - No. of leaves					
		NEW	9 - 4				
		CURRENT	8 - 1 9 - 3				
4.	Parts commonalty for STEERING SYSTEM	+ adoption of parts commonalty for better productivity on KNUCKLE ARM & FRONT AXLE, etc. combination	●	●	●	-	
5.	New STEERING GEAR RATIO for FB series	+ adoption of FE parts to FB for better productivity	●	-	-	-	
		STEERING GEAR RATIO					
		NEW	26 ~ 30				
		CURRENT	23 ~ 27				

[Fig.01] IMPROVEMENT OF SIDE FRAME



[Fig.02] IMPROVEMENT OF SUB-SIDE FRAME ON FE439/449 SERIES

NEW ('91 MODEL)
adoption of enlarged Sub-SIDE FRAME
+ 780 mm extended to front
+ 773 mm extended to rear



= IMPROVED ITEMS =

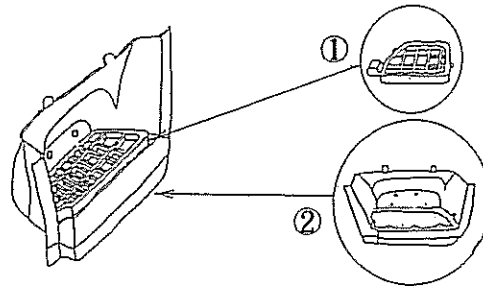
NOTE: ○:applicable (INTERCHANGEABILITY: ○=OK, FOR REFERENCE)
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 -:inapplicable

B.CAB

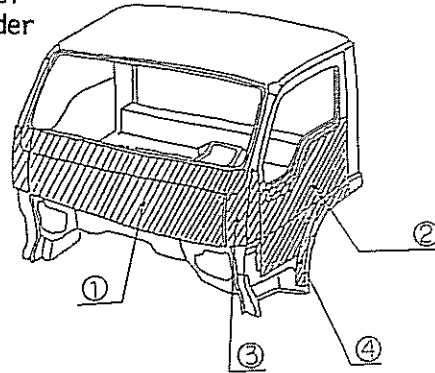
NO	IMPROVED ITEMS	CONTENTS	APPLICABLE MODEL			
			FB	FC	FE	FG
1.	New CAB-STEP of Alminum grid type [Fig.03]	+ adoption of Alminum grid step for safety access to cab	●	●	●	●
2.	Upgraded rust-proof treatment for cab metal (except: CKD countries) [Fig.04]	+ adoption of Zinc galvanized cab metal for better rust-proofing	●	●	●	●
3.	New METER CLUSTER (except:INDIA, Shenyang/CHINA, as CKD component) [Fig.05]	+ adoption of new symmetrical design with concentrated warning lamps and indicators	●	●	●	●
4.	New coating on CONDENSE TANK of radiator with improved cap (only for Short type - gear change lever spec.) [Fig.06]	+ adoption of BLACK coating on the surface of TANK for better protection against ultra-violet rays, with new cap of screw-type plug instead of push-type plug	○	○	○	○
5.	New STEERING WHEEL with Poly-urethane rubber molding type wheel for Europe as EC spec.	+ adoption of Poly-urethane rubber molding type Handle grip for Europe as EC spec. (except: PORTUGAL)	○	-	○	-

[Fig.03] IMPROVEMENT OF CAB-STEP

NEW ('91 MODEL)
 adoption of Alminum grid type
 ① Alminum grid(AT die casting)
 ② Step garnish

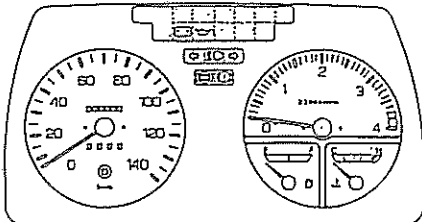


[Fig.04] EXTENDED ADOPTION OF GALVANIZED CAB METAL
 ① Front panel ② Door outer panel
 ③ Front corner panel ④ Floor side fender

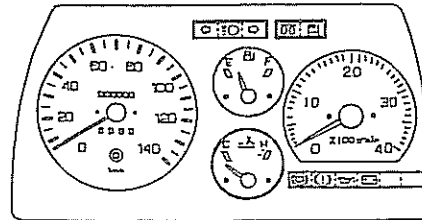


[Fig.05] NEW METER CLUSTER

NEW ('91 MODEL)
 Symmetrical design
 with concentrated warning
 lamps and indicators

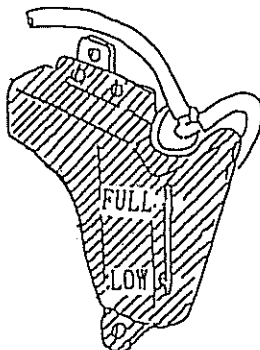


CURRENT

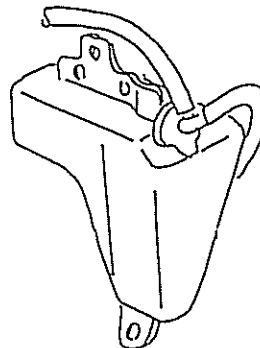


[Fig.06] IMPROVEMNT OF CONDENSE TANK

NEW ('91 MODEL)
 adoption of BLACK
 coating with screw-type plug



CURRENT
 coating-less tank
 with push-type plug



= IMPROVED ITEMS =

NOTE: ○:applicable (INTERCHANGEABILITY: ○=OK, FOR REFERENCE)
 (INTERCHANGEABILITY: ●=NO, FOR REFERENCE)
 -:inapplicable

C. BRAKE

NO	IMPROVED ITEMS	CONTENTS	APPLICABLE MODEL			
			FB	FC	FE	FG
1.	New material of reinforcement fiber for BRAKE HOSE	+ adoption of Vinylon fiber instead of Rayon fiber for better productivity	○	○	○	○
2.	AUTO-ADJUSTER of front brake for FE series	+ newly available only for Europe as EC spec. (except: Portugal)	-	-	●	-

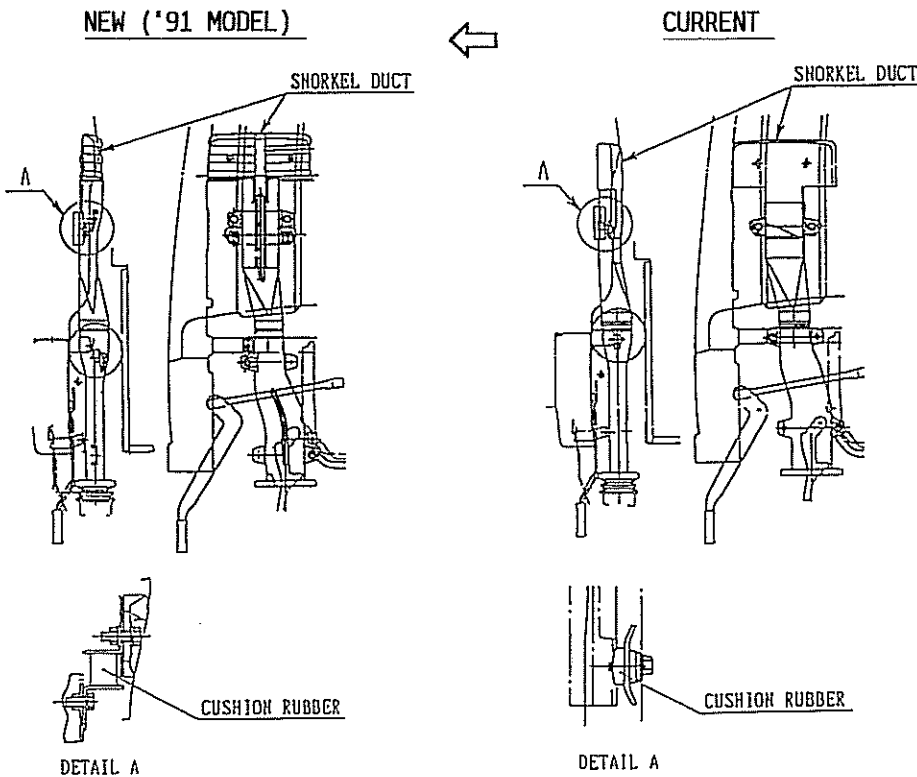
= IMPROVED ITEMS =

NOTE: ○:applicable (INTERCHANGEABILITY: ○=OK, FOR REFERENCE)
 (INTERCHANGEABILITY: ●=NO, FOR REFERENCE)
 -:inapplicable

D. OTHERS

NO	IMPROVED ITEMS	CONTENTS	APPLICABLE MODEL			
			FB	FC	FE	FG
1.	New REVERSE WARNING BUZZER of electronic music type	+ adoption of electronic music type instead of buzzer type, newly available as OPT.	○	○	○	○
2.	Water-proof type connectors for electric harness	+ adoption of Water-proof type connectors for [Gauge unit of fuel tank; 3-way magnet valve; etc.]	●	●	●	●
3.	New mounting of AIR-INTAKE system for Europe as EC spec. (except: Portugal) [Fig.07]	+ adoption of Sharing type CUSHION RUBBER mounting between cab back and SNORKEL DUCT for better noise insulation	●	-	●	-

[Fig.07] IMPROVEMENT OF AIR-INTAKE SYSTEM





FE.FG

Service Manual

Group 00
General

 MITSUBISHI FUSO TRUCK OF AMERICA, Inc.

GENERAL

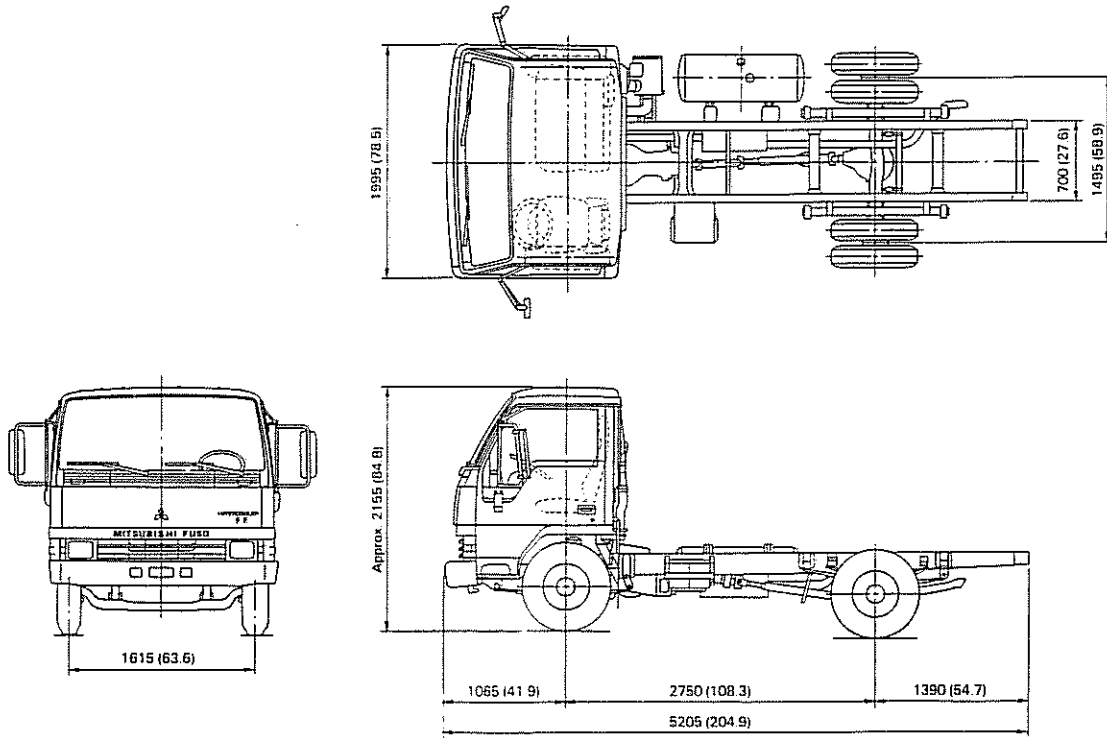
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2. MAJOR SPECIFICATIONS	00— 4	7. STANDARD BOLTS AND NUTS TIGHTENING TORQUE TABLE	00—19
3. POWER TRAIN TABLE	00— 9	8. TOWING PRECAUTIONS	00—20
4. EQUIPMENT MODEL NOTATION	00— 9	9. VEHICLE IDENTIFICATION NUMBER	00—21
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5.2 Engine Performance Curves	00—14		

1. EXTERNAL VIEWS

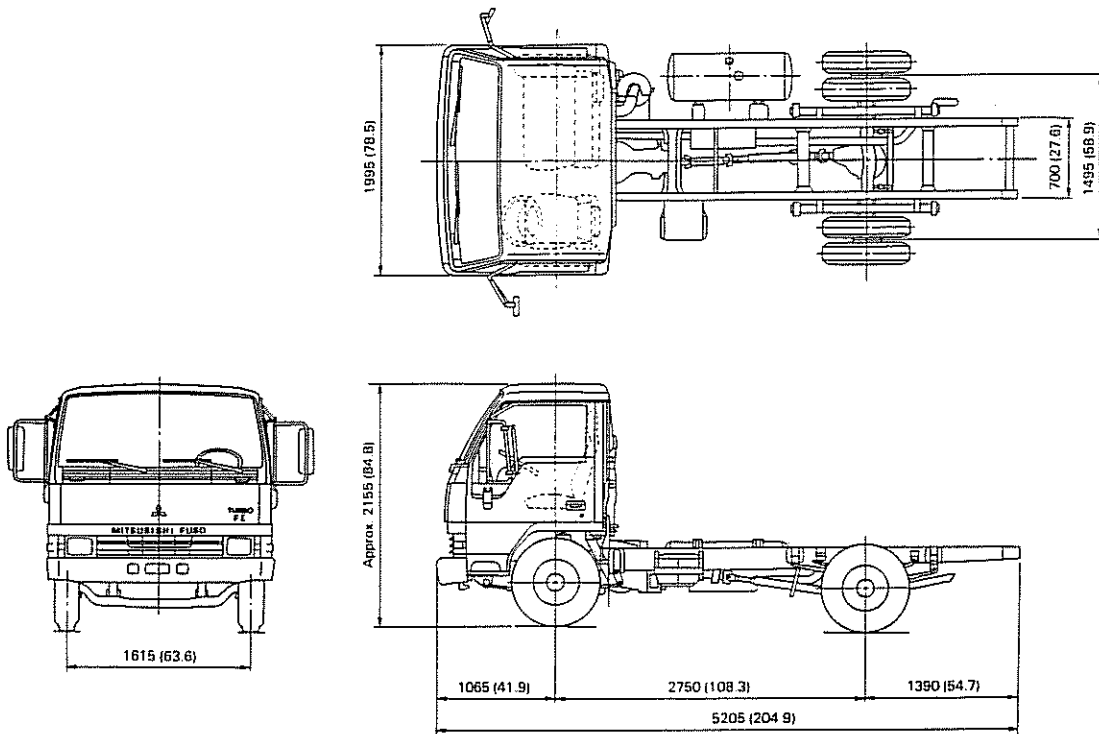
Unit: mm (in.)

FE434CZSL (4D31T2)



A0313A

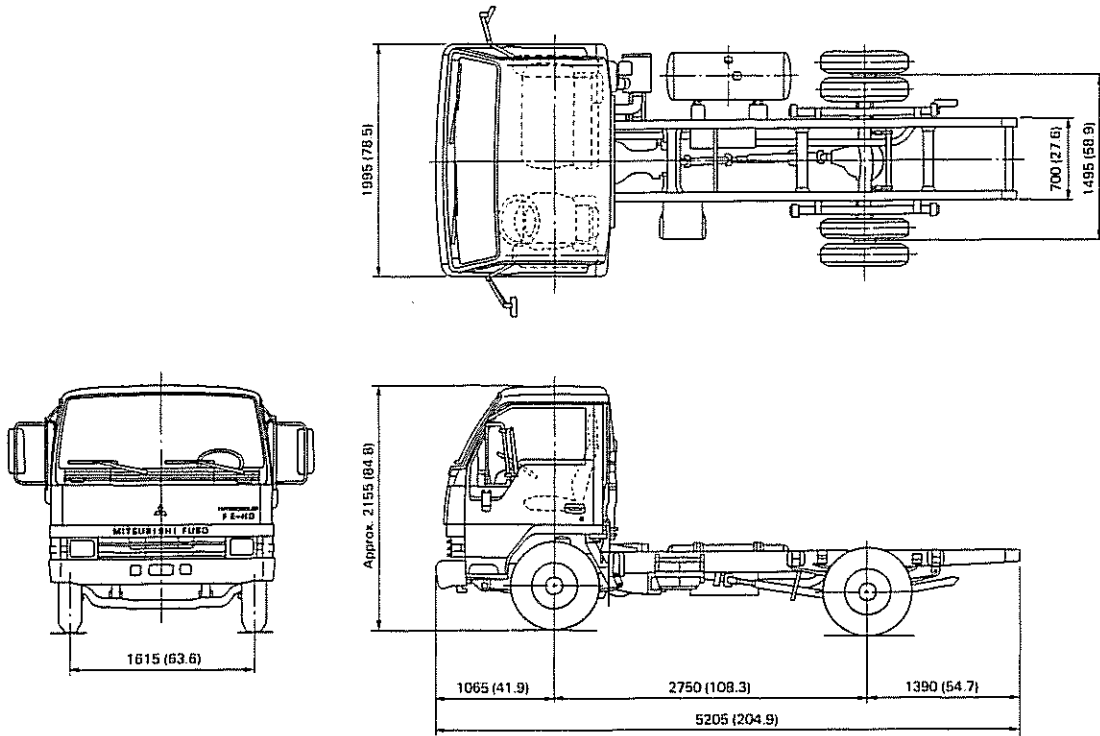
FE434CZSL (4D31T)



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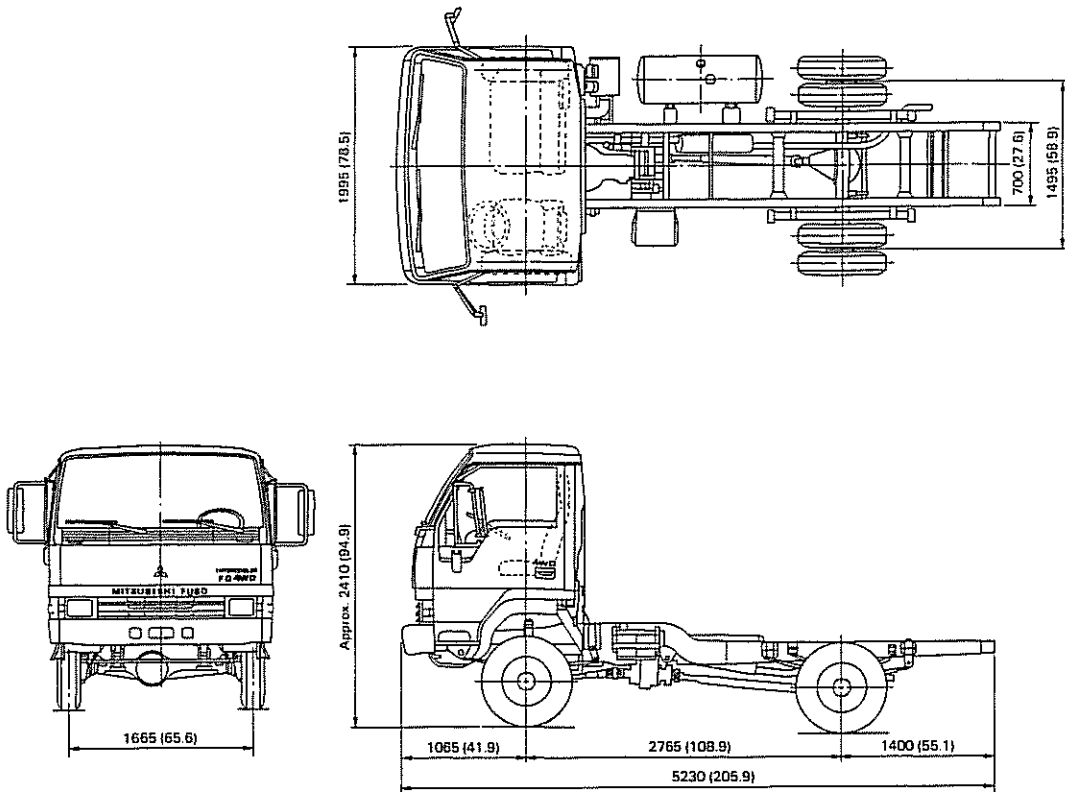
Unit: mm (in.)

FE444CXSL



A0315A

FG434CZSL



A0316A

2. MAJOR SPECIFICATIONS

Specification	Model	FE434CZSL			
		4D31T2		4D31T	
		M3S5	M3030A4	M3S5	M2A3
Type	Forward control, tilt cab				
Drive system	4 × 2				
Dimensions mm (in.)					
Overall length	5205 (204.9)	5205 (204.9)	5205 (204.9)	5205 (204.9)	
Overall width	1995 (78.5)	1995 (78.5)	1995 (78.5)	1995 (78.5)	
Overall height	2155 (84.8)	2155 (84.8)	2155 (84.8)	2155 (84.8)	
Wheel base	2750 (108.3)	2750 (108.3)	2750 (108.3)	2750 (108.3)	
Tread Front	1615 (63.6)	1615 (63.6)	1615 (63.6)	1615 (63.6)	
Tread Rear	1495 (58.9)	1495 (58.9)	1495 (58.9)	1495 (58.9)	
Weight kg. (lbs.)					
Vehicle weight	2135 (4706)	2170 (4784)	2130 (4695)	2115 (4660)	
Vehicle gross weight (GVW)	5260 (11600)	5260 (11600)	5260 (11600)	5260 (11600)	
Seating capacity	3	3	3	3	
Performance					
Maximum speed km/h (mph)	98 (60.9)	107 (66.4)	98 (60.9)	95 (59.0)	
Climbing ability with Max. GVW tan θ	50.0	59.5	45.5	30.0	
Min. turning radius m(ft.)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	
Engine	4D31T2 4 stroke-cycle water cooled direct injection diesel engine with turbo charger		4D31T 4 stroke-cycle water cooled direct injection diesel engine with turbo charger		
Max. output	127 HP/3500 rpm (SAE, gross)		114 HP/3500 rpm (SAE, gross)		
Max. torque	214 lbf.ft/2000 rpm (SAE, gross)		203 lbf.ft/2000 rpm (SAE, gross)		
Clutch	C3W28 Hydraulic control, single dry plate woven	Torque convertor	C3W28 Hydraulic control, single dry plate woven	Torque convertor	
Transmission	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M030A4 Torque convertor electrical controlled with lock up, single- stage, three element, multi-phase	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M2A3 Standard torque converter single-stage, three element, multi- phase	
	Floor shift, mechanical remote control	Floor shift	Floor shift, mechanical remote control	Floor shift	
Propeller shaft	P3				
Front axle	Reverse elliot "I" beam				
Rear axle	Fully floating type				
	D3H		D2H		
	Single reduction, hypoid gear				
Wheels and tires	LT215/85R16(D)				
Tire size	16 × 6 K				
Wheel size					
Front suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers				
Rear suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers				
Brakes	Hydraulic with vacuum servo assistance, divided line and with pressure control valve controlling service force at rear wheel.				
Main brake					
Auxiliary brake	Exhaust brake				
Parking brake	Internal expanding type at rear of transmission				
Steering	Left hand steering, ball nut type with hydraulic power booster, adjustable steering column				
Frame	Parallel tapered channel section with reinforcements and crossmembers				
Cab	All steel, tilt cab				
Electrical	12 V, regulated control				
Heater and air-conditioner	Combined inside and outside air, hot water system (option: air conditioner)				

GENERAL — MAJOR SPECIFICATIONS

00

Specification	FE434EZSL			
	4D31T2		4D31T	
	M3S5	M030A4	M3S5	M2A3
Type	Forward control, tilt cab			
Drive system	4 × 2			
Dimensions mm (in.)				
Overall length	5885 (231.7)	5885 (231.7)	5885 (231.7)	5885 (231.7)
Overall width	1995 (78.5)	1995 (78.5)	1995 (78.5)	1995 (78.5)
Overall height	2155 (84.8)	2155 (84.8)	2155 (84.8)	2155 (84.8)
Wheel base	3350 (131.9)	3350 (131.9)	3350 (131.9)	3350 (131.9)
Tread Front	1615 (63.6)	1615 (63.6)	1615 (63.6)	1615 (63.6)
Tread Rear	1495 (58.9)	1495 (58.9)	1495 (58.9)	1495 (58.9)
Weight kg. (lbf.)				
Vehicle weight	2160 (4762)	2160 (4762)	2160 (4762)	2160 (4762)
Vehicle gross weight (GVW)	5260 (11600)	5260 (11600)	5260 (11600)	5260 (11600)
Seating capacity	3	3	3	3
Performance				
Maximum speed km/h (mph)	98 (60.9)	107 (66.4)	98 (60.9)	95 (59.0)
Climbing ability with Max. GVW tan θ	50.0	59.5	45.5	30.0
Min. turning radius m(ft.)	6.6 (21.7)	6.6 (21.7)	6.6 (21.7)	6.6 (21.7)
Engine	4D31T2 4 stroke-cycle water cooled direct injection diesel engine with turbo charger		4D31T 4 stroke-cycle water cooled direct injection diesel engine with turbo charger	
Max. output	127 HP/3500 rpm (SAE, gross)		114 HP/3500 rpm (SAE, gross)	
Max. torque	214 lbf.ft/2000 rpm (SAE, gross)		203 lbf.ft/2000 rpm (SAE, gross)	
Clutch	C3W28 Hydraulic control, single dry plate woven	Torque convertor	C3W28 Hydraulic control, single dry plate woven	Torque convertor
Transmission	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M030A4 Torque convertor electrical controlled with lock up, single-stage, three element, multi-phase	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M2A3 Standard torque converter single-stage, three element, multi-phase
	Floor shift, mechanical remote control	Floor shift	Floor shift, mechanical remote control	Floor shift
Propeller shaft	P3			
Front axle	Reverse elliot "I" beam			
Rear axle	Fully floating type			
	D3H		D2H	
	Single reduction, hypoid gear			
Wheels and tires	LT215/85R16(D)			
Tire size	16 × 6 K			
Wheel size				
Front suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers			
Rear suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers			
Brakes	Hydraulic with vacuum servo assistance, divided line and with pressure control valve controlling service force at rear wheel.			
Main brake	Exhaust brake			
Auxiliary brake				
Parking brake	Internal expanding type at rear of transmission			
Steering	Left hand steering, ball nut type with hydraulic power booster, adjustable steering column			
Frame	Parallel tapered channel section with reinforcements and crossmembers			
Cab	All steel, tilt cab			
Electrical	12 V, regulated control			
Heater and air-conditioner	Combined inside and outside air, hot water system (option: air conditioner)			

GENERAL — MAJOR SPECIFICATIONS

Specification	FE434FZSL			
	4D31T2		4D31T	
	M3S5	M030A4	M3S5	M2A3
Type	Forward control, tilt cab			
Drive system	4 × 2			
Dimensions mm (in.)				
Overall length	6515 (256.5)	6515 (256.5)	6515 (256.5)	6515 (256.5)
Overall width	1995 (78.5)	1995 (78.5)	1995 (78.5)	1995 (78.5)
Overall height	2155 (84.8)	2155 (84.8)	2155 (84.8)	2155 (84.8)
Wheel base	3760 (148.0)	3760 (148.0)	3760 (148.0)	3760 (148.0)
Tread Front	1615 (63.6)	1615 (63.6)	1615 (63.6)	1615 (63.6)
Tread Rear	1495 (58.9)	1495 (58.9)	1495 (58.9)	1495 (58.9)
Weight kg. (lbf.)				
Vehicle weight	2190 (4828)	2190 (4828)	2190 (4828)	2190 (4828)
Vehicle gross weight (GVW)	5260 (11600)	5260 (11600)	5260 (11600)	5260 (11600)
Seating capacity	3	3	3	3
Performance				
Maximum speed km/h (mph)	98 (60.9)	107 (66.4)	98 (60.9)	95 (59.0)
Climbing ability with Max. GVW tan θ	50.0	59.5	45.5	30.0
Min. turning radius m(ft.)	7.3 (24.0)	7.3 (24.0)	7.3 (24.0)	7.3 (24.0)
Engine	4D31T2 4 stroke-cycle water cooled direct injection diesel engine with turbo charger		4D31T 4 stroke-cycle water cooled direct injection diesel engine with turbo charger	
Max. output	127 HP/3500 rpm (SAE, gross)		114 HP/3500 rpm (SAE, gross)	
Max. torque	214 lbf.ft/2000 rpm (SAE, gross)		203 lbf.ft/2000 rpm (SAE, gross)	
Clutch	C3W28 Hydraulic control, single dry plate woven	Torque convertor	C3W28 Hydraulic control, single dry plate woven	Torque convertor
Transmission	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M030A4 Torque convertor electrical controlled with lock up, single-stage, three element, multi-phase	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M2A3 Standard torque converter single-stage, three element, multi-phase
	Floor shift, mechanical remote control	Floor shift	Floor shift, mechanical remote control	Floor shift
Propeller shaft	P3			
Front axle	Reverse Elliot "I" beam			
Rear axle	Fully floating type			
	D3H		D2H	
	Single reduction, hypoid gear			
Wheels and tires	LT215/85R16(D)			
Tire size	16 × 6 K			
Wheel size				
Front suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers			
Rear suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers			
Brakes	Hydraulic with vacuum servo assistance, divided line and with pressure control valve controlling service force at rear wheel.			
Main brake	Exhaust brake			
Auxiliary brake				
Parking brake	Internal expanding type at rear of transmission			
Steering	Left hand steering, ball nut type with hydraulic power booster, adjustable steering column			
Frame	Parallel tapered channel section with reinforcements and crossmembers			
Cab	All steel, tilt cab			
Electrical	12 V, regulated control			
Heater and air-conditioner	Combined inside and outside air, hot water system (option: air conditioner)			

GENERAL — MAJOR SPECIFICATIONS

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Specification	Model	FE444CXSL		FE444EXSL	
		4D31T2		4D31T2	
		M3S5	M030A4	M3S5	M2A3
Type	Forward control, tilt cab				
Drive system	4 × 2				
Dimensions mm (in.)					
Overall length	5205 (204.9)	5205 (204.9)	5885 (231.7)	5885 (231.7)	
Overall width	1995 (78.5)	1995 (78.5)	1995 (78.5)	1995 (78.5)	
Overall height	2155 (84.8)	2155 (84.8)	2155 (84.8)	2155 (84.8)	
Wheel base	2750 (108.3)	2750 (108.3)	3350 (131.9)	3350 (131.9)	
Tread Front	1615 (63.6)	1615 (63.6)	1615 (63.6)	1615 (63.6)	
Tread Rear	1495 (58.9)	1495 (58.9)	1495 (58.9)	1495 (58.9)	
Weight kg. (lbf.)					
Vehicle weight	2160 (4762)	2195 (4839)	2185 (4817)	2215 (4883)	
Vehicle gross weight (GVW)	6125 (13500)	6125 (13500)	6125 (13500)	6125 (13500)	
Seating capacity	3	3	3	3	
Performance					
Maximum speed km/h (mph)	98 (60.9)	107 (66.4)	98 (60.9)	107 (66.4)	
Climbing ability with Max. GVW tan θ	41.0	48.5	41.0	48.5	
Min. turning radius m(ft.)	5.6 (18.4)	5.6 (18.4)	6.6 (21.7)	6.6 (21.7)	
Engine	4D31T2 4 stroke-cycle water cooled direct injection diesel engine with turbo charger				
Max. output	127 HP/3500 rpm (SAE, gross)				
Max. torque	214 lbf.ft/2000 rpm (SAE, gross)				
Clutch	C3W28 Hydraulic control, single dry plate woven	Torque convertor	C3W28 Hydraulic control, single dry plate woven	Torque convertor	
Transmission	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M030A4 Torque convertor electrical controlled with lock up, single- stage, three element, multi-phase	M3S5 5-forward and 1-reverse speed, 2nd to 5th synchromesh, 1st rev. constantmesh gears	M2A3 Standard torque converter single-stage, three element, multi- phase	
	Floor shift, mechanical remote control	Floor shift	Floor shift, mechanical remote control	Floor shift	
Propeller shaft	P3				
Front axle	Reverse Elliot "I" beam				
Rear axle	Fully floating type				
	D3H			D2H	
	Single reduction, hypoid gear				
Wheels and tires	LT215/85R16(D)				
Tire size	16 × 6 K				
Wheel size					
Front suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers				
Rear suspension	Semi-elliptic, laminated leaf spring with stabilizer and shock absorbers				
Brakes	Hydraulic with vacuum servo assistance, divided line and with pressure control valve controlling service force at rear wheel.				
Main brake	Exhaust brake				
Auxiliary brake					
Parking brake	Internal expanding type at rear of transmission				
Steering	Left hand steering, ball nut type with hydraulic power booster, adjustable steering column				
Frame	Parallel tapered channel section with reinforcements and crossmembers				
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