



MODEL F-700ST SERIES

STANDARD EQUIPMENT — Coe 6-Wheel Tractor

(Based on Model F-711ST)

WHEELBASE	144" (LP 171"; CA 122")
ENGINE: (MACK)	†ET 673
Type	Turbocharged, 6 cyl.
Bore & stroke	4 ⁷ / ₈ " x 6"
Piston displacement, cu. in.	672
*Brake HP @ 2100 rpm	260
*Max. torque @ 1500 rpm	775 lb. ft.
Lube oil filter	Full-flow, twin spin-on disposable type
Air cleaner	Dry type
Radiator, frontal area	1,000 sq. in.
Fuel pump	Multiple plunger type
Coolant conditioner	Spin-on disposable type
Thermostat (set to open)	170°F
*Based on performance at SAE standard conditions of 500' altitude and 85°F air intake temperature.	
†Not certified for State of California.	
FUEL TANK	50 gal., right hand, steel, round
ELECTRICAL SYSTEM: Alternator	12 Volt, 85 Amp. (L/N)
Starting system	12 Volt
Batteries	4 (6) Volt
Plates per cell 23; Amp. hr. @ 20 hr. rate	165
CLUTCH:	CL 69 or CL 77
Make	Spicer Lipé
Size	14", 2-plate 14", 2-plate
Lining	Organic Organic
Area of engagement	423 sq. in. 423 sq. in.
TRANSMISSION: (MACK)	TRD 722
Type	Ten speed, direct, duplex
FRONT AXLE:	FAW 536C
Capacity	10,500 lbs.

BOGIE:	SWS 56C
Capacity	34,000 lbs.
Carriers	CRDPC 92 & CRD 93
Ratios	3.87, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15
SPRINGS:	Front Rear
	(FAW 536C) (SWS 56)
Ground load rating	10,500 lbs. 34,000 lbs.
Size	55" x 3 ¹ / ₂ " 50 ¹ / ₂ " x 4"
Leaves, no. & thickness	3 tapered @ .726" 9 @ .625"
Pack thickness @ axle spring pad	2.432"
BRAKES: Air	MACK 12.9 CFM — M/R EL-1300 air compressor (TU-FLO 501 Compressor) AIR
Front (Cam type)	16 ¹ / ₂ " x 5" (314 sq. in.)
Rear (Cam type)	16 ¹ / ₂ " x 7" (880 sq. in.)
Auxiliary	Spring loaded type
AIR RESERVOIRS	ONE (Two Compartment)
Location	Right frame rail
Capacity (Total)	6,234 cu. in.
WHEELS AND TIRES:	
Wheels	Cast spoke
Tires	10.00-20 (12P) 7.5 rims
STEERING GEAR: Model	SG 261
Steering wheel diameter; ratio	21"; 32.5:1
FRAME:	Material
	Heat-treated Section RBM in. lbs.
Size	110,000 PSI Modulus Per Rail
13 ¹ / ₈ " x 3 ³ / ₄ " x 1/4"	Minimum Yield 16.65 1,830,000
(Deep Section)	Strength Steel
CAB: (MACK)	CA 47 (No rider's seat)
Type (50.5" BBC)	Cab over engine
STANDARD CHASSIS WEIGHT (EST. LBS.)	
Front 7,230; Rear 7,039; Total 14,269	

CHASSIS EQUIPMENT

Automatic reset circuit breakers
Back-up light
Break-away safety valve
Bumper, flush type
Cab roof vent, two way
Cab step — L. side & R. side
Combination heater and def., 42,000 BTU
Combination stop, tail & rear turn signals (2)
Engine water conditioner (Cummins engine)

Engine stop control
Headlights
Horn, electric, single tone
I.D. & clearance lamps
Low air pressure buzzer
Rear view mirror, two, West Coast type
Seat belts
Shock absorbers, front (strut type)
Side reflectors

Step (left side) battery box mounted (access to rear of cab)
Sun visor, left side
Tachometer, single hand
Trailer conn., semi-trailer
Turn signals, front & rear (with 4-way flasher)
Undercoating
Vertical exhaust
Voltmeter

Warning light for spring loaded aux. brakes
Wheel wrench and handle
Windshield glass, Solex
Windshield washers
Windshield wipers, dual, air, two motors
MANDATORY
OPTIONAL EQUIPMENT
FMVSS 121 Brake System with Eaton, Anti-Wheel Lock Brake System

OPTIONAL EQUIPMENT — F-700ST Series

See Power Train Combination

ENGINE	CHASSIS MODEL	BORE & STROKE	NO. OF CYL.	DISP. CU. IN.	*BHP @ RPM	*MAX. TORQUE @ RPM	RADIATOR SQ. IN.
††ETAZ 673A	F712ST	4 $\frac{7}{8}$ " x 6"	6	672	315 @ 1900	1050 @ 1450	1,000
†NTC 350 ††NTCC 350	F767ST	5 $\frac{1}{2}$ " x 6"	6	855	350 @ 2100	1006 @ 1500	1,110
†8V-71T	F769ST	4 $\frac{1}{4}$ " x 5"	V-8	568	335 @ 2100	920 @ 1400	1,110
†8V-71T	F769ST	4 $\frac{1}{4}$ " x 5"	V-8	568	308 @ 2100	865 @ 1400	1,110
††8V-71N	F773ST	4 $\frac{1}{4}$ " x 5"	8	568	304 @ 2100	800 @ 1600	1,110
††8V-71N	F773ST	4 $\frac{1}{4}$ " x 5"	8	568	280 @ 2100	770 @ 1200	1,110
††8V-71NE	F773ST	4 $\frac{1}{4}$ " x 5"	8	568	252 @ 1950	734 @ 1200	1,110
†ENDT 675 (Maxidyne) ††ENDT 675C	F785ST	4 $\frac{7}{8}$ " x 6"	6	672	**237 @ 1700 (Max.) **235 @ 2100 (Gov'd)	**906 @ 1200	1,000
††ENDT 676 (Maxidyne)	F786ST	4 $\frac{7}{8}$ " x 6"	6	672	285 @ 1800 (Max.) 283 @ 2100 (Gov'd)	1080 @ 1200	1,000
†ENDT 865 (V-8 Maxidyne)	F795ST	5 $\frac{1}{4}$ " x 5"	8	866	**325 @ 1800 (Max.) **317 @ 2100 (Gov'd)	**1211 @ 1200	1,110
††ENDT 865C (Maxidyne)	F795ST	5 $\frac{1}{4}$ " x 5"	8	866	**325 @ 2100 (Gov'd)	**1100 @ 1350	1,110
†ENDT 866	F797ST	5 $\frac{1}{4}$ " x 5"	8	866	375 @ 2200	1040 @ 1600	1,110
††ENDT 866C	F797ST	5 $\frac{1}{4}$ " x 5"	8	866	355 @ 2100	1040 @ 1500	1,110

*Based on performance at SAE standard conditions of 500' altitude and 85°F intake temperature.

**Based on performance at sea level & 60°F dry air intake temperature.

†Not certified for State of California.

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WHEELBASE †138", 150", 165", 186", 244"
(See chassis diagram for platform, etc.)

†138" W.B. avail. only with TRL 1076, TRL 1078, RT 910, RT 915, RTO 9513.

CLUTCH: See Power Train Combination

CL 721 "Dynamax", 4-plate (org.) wet 578 sq. in.
CL 75 Spicer, 14" 2-plate (cer.) 144 sq. in.
CL 78 Lipe, 14" 2-plate (cer.) 125 sq. in.
CL 79 Spicer, 15 $\frac{1}{2}$ " 2-plate (cer.) 144 sq. in.

NOTE: All clutches are pull type (except CL 721 which is a Rockford push type.)

LININGS: cer. - ceramic; org. - organic.

CAB:

CAS 48 Sleeper, incl. mattress, sleeper bunk safety straps & helper seat. (86.5" BBC)

WHEELS AND TIRES:

Disc (7.5 rims) Alum., Hi-Tensile or Accu-Ride
(8.0 rims) Steel
Tires and rims 10.00-22 (12P) 7.5 rim
11.00-20 or 11.00-22 (12P) 8.0 rim

ELECTRICAL SYSTEM:

Starting 24 Volt

ALTERNATOR: 12 Volt 90 Amp. (Delco)

***BATTERIES** 4 (6) Volt

Plates per cell 29

Amp. hr. @ 20 hr. rate 220

*Req'd. w/8V-71N & 8V-71T.

POWER STEERING SGP 45 (Integral)

FRONT AXLES:

FAW 536C-W-D 10,500 lbs. capacity

Springs: (STD.) (OPT.)

Ground load ratings 10,500 lbs. 9,500 lbs.

Size 55" x 3 $\frac{1}{2}$ " 55" x 3 $\frac{1}{2}$ "

Leaves, No. & Thickness 3 tapered 3 tapered

@ .726" @ .620"

Pack thickness @ axle spring pad 2.432" 2.312"

Brakes: Cam type 16 $\frac{1}{2}$ " x 5" (314 sq. in.)

Wedge type 15" x 5" (314 sq. in.)

Disc type Single sliding caliper disc

Rotor, type & O.D. Ventilated, 15.62"

Lining area, total 115.68 sq. in.

FAW 573C-W-D	12,000 lbs. capacity		
Springs:	(STD.)	(OPT.)	(OPT. H.D.)
Ground load ratings	12,000 lbs.	10,500 lbs.	12,000 lbs.
Size	55" x 3½"	55" x 3½"	55" x 3½"
Leaves, no. & thickness	3 tapered @ .715"	3 tapered @ .726"	3 tapered @ .770"
Pack thickness @ axle spring pad	2.597"	2.432"	2.762"
Brakes: Cam type	16½" x 5" (314 sq. in.)		
Wedge type	15" x 5" (314 sq. in.)		
Disc type	Single sliding caliper disc		
Rotor, type & O.D.	Ventilated, 15.62"		
Lining area, total	115.68 sq. in.		

NOTE: Front axles with disc brake and 20" wheel equip. requires tubeless tires.

BOGIES: See Power Train Combinations

SWS 56C-W	34,000 lbs. capacity			
Carriers	CRDPC 92 & CRD 93			
Ratios	3.87, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15			
Power Divider	Inter-axle			
Springs:	(STD.)	(OPT.)	(OPT. A/S)	(OPT. A/S)
Bogie spacing	50"	55"	50"	55"
Ground load rating	34,000 lbs.	34,000 lbs.	34,000 lbs.	34,000 lbs.
Size	50" x 4"	55" x 4"	50" x 4"	55" x 4"
Leaves, no. & thickness	9 @ .625"	10 @ .625"	8 @ .788"	7 @ .788"
			2 @ .625"	2 @ .625"

Brakes: Cam type 16½" x 7" (880 sq. in.)
Wedge type 15" x 7" (880 sq. in.)

SWS 57C-W	38,000 lbs. capacity			
Carriers	CRDPC 92 & CRD 93			
Ratios	3.87, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15			
Power Divider	Inter-axle			
Springs:	(STD.)	(OPT.)	(OPT. A/S)	(OPT. A/S)
Bogie spacing	50"	55"	50"	55"
Ground load rating	44,000 lbs.	44,000 lbs.	44,000 lbs.	44,000 lbs.
Size	50" x 4"	55" x 4"	50" x 4"	55" x 4"
Leaves, no. & thickness	10 @ .778"	11 @ .788"	7 @ .999"	8 @ .999"
			3 @ .788"	3 @ .788"

Brakes: Cam type 16½" x 7" (880 sq. in.)
Wedge type 15" x 7" (880 sq. in.)

SWTL 56C-W	34,000 lbs. capacity			
Carriers	CRDLP 92 & CRDL 93			
Ratios	3.87, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15			
Power Divider	Inter-axle			
Springs: (50" Bogie Spacing)	(STD.)			
Ground load rating	34,000 lbs.			
Size	50" x 4"			
Leaves, no.	3 tapered @ 1.052"			
Pack thickness @ axle spring pad	3.243"			
Brakes: Cam type	16½" x 7" (880 sq. in.)			
Wedge type	15" x 7" (880 sq. in.)			
SWA 57C-W	38,000 lbs. capacity			
Carriers	CRDPC 92 & CRD 93			
Ratios	3.87, 4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15			
Power Divider	Inter-axle			

Air suspension: (50" bogie spacing)	(STD.)
Ground load rating	38,000 lbs.
Make	Neway
Model	ARD-244
Brakes: Cam type	16½" x 7" (880 sq. in.)
Wedge type	15" x 7" (880 sq. in.)

WEDGE BRAKES include automatic adjustment and four fail safe auxiliary brake units per bogie.

CAM BRAKES include four auxiliary brake units per bogie.

SPRINGS: A/S — anti-sway spring.

AIR CLEANERS: See Data Book Engine Section

FUEL TANKS:

Type	Round, 26" dia.
Material	Steel or aluminum

Location & minimum wheelbase:

Size	L.H.	R.H.
40 gal.	138"	138"
50 gal.	144"	138"
60 gal.	150"	138"
70 gal.	165"	138"
80 gal.	165"	138"
90 gal.	165"	144"
100 gal.	165"	150"
110 gal.	186"	150"
120 gal.	186"	165"

NOTE: When both L.H. and R.H. fuel tanks are specified, longest charted minimum wheelbase applies.

LIGHTWEIGHT ITEMS:

Aluminum Brackets	Engine front support crossmember, engine rear support and transmission support frame brackets.
Aluminum Cab	CAL 47, CASL 48, cab doors, cab roof, door skirt and headlight panel.
Aluminum bumper	
Aluminum carriers (CRDLP 92 - CRDL 93)	

TRANSMISSIONS: See Power Train Combination

Transmission	Transmission Description
TRD 7220	9 spd., overgear, duplex
TRT 722	15 spd., direct
TRT 7220	13 spd., overgear
TRQ 7220	18 spd., overgear, quadruplex
TRL 1076	5 spd., direct, maxitorque
TRL 1078	5 spd., direct, maxitorque
TRDL 107	10 spd., direct
TRTXL 107	12 spd., direct
RT 910	10 spd., roadranger
RTO 910	10 spd., overgear, roadranger
RTO 9513	13 spd., overgear, roadranger
RT 915	15 spd., roadranger
RTO 915	15 spd., overgear, roadranger
RT 12510	10 spd., direct roadranger
RTO 12510	10 spd., overgear, roadranger
RT 12513	13 spd., direct, roadranger
RTO 12513	13 spd., overgear, roadranger
HT 740 D (Allison)	4 spd., automatic
HT 740 CRD (Allison)	5 spd., automatic
HT 750 DRD (Allison)	5 spd., automatic

138" wheelbase avail. only with TRL 1076, TRL 1078, RT 910, RT 915, & RTO 9513.

OPTIONAL CHASSIS EQUIPMENT

Air intake system - outside - under cab
Air starting
Air suspended cab mounting
AC 3810 air control panel (SWA 57 Series only) for automatic vehicle height control
Alcohol evaporator
Automatic drain valve
Cab air conditioning
Chrome plated grill
Chrome plated turn signals (front)
Chrome plated W.C. type rear view mirrors
Coolant conditioner (det. diesel only)
Deluxe cab interior (CAD(L) 47 - CAD (L) 48)
Driver's seat — Bostrom, Viking T-Bar, West Coaster or Levelair, American Metal, unison action, Mack suspension;
National Cush-N-Aire

Electric window lift - R.H. side
Engine brake
Engine lube oil filter - by-pass type in addition to std. full-flo (Det. Diesel only)
Engine puff limiter (required w/ET673, ETAZ673A, ENDT675, ENDT676, ENDT 865, & ENDT 866)
Ether applicator
Exhaust pyrometer (required w/ENDT 676 & ETAZ 673A)
Hand control valve
Helper seat (For CA 47)
Horn, electric, dual tone
Horn, air, twin or single
Hubodometer
Hydraulic jack, 8 or 12 ton
Mack Bulldog mirrors

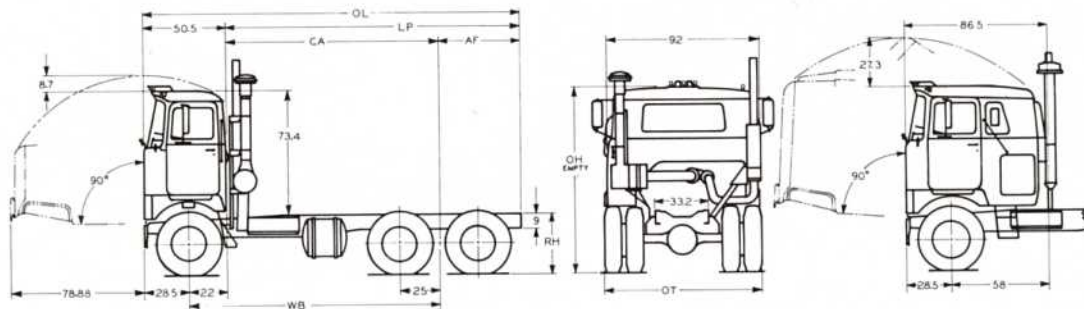
Maxi-miser road speed governor (w/ENDT 675 & ENDT 676 only)
Oil level indicator, remote (MACK engines)
Power divider lock-out
Radiator shutters, automatic
Rider seat
Rider's seat arm rest
Seat belt retractors
Sun visor, right side
Tachograph (RPM and/or MPH)
Tow shackle, bumper mounted (Removable)
Trailer conn. full trailer (No hose)
Underframe exhaust (N/A 8V-71 Series)
Wig-wag low air pressure indicator

F-700ST SERIES RECOMMENDED POWER TRAIN COMBINATIONS

ENGINE†	CLUTCH	TRANSMISSION	*DRIVESHAFT SERIES		BOGIE
			MAIN	INTER-AXLE	
ET 673 (MACK 12.5 CFM)	CL 69 CL 75 CL 77 CL 78 CL 79	TRD 722	1710	1610	SWS 56C-W
		TRD 7220	1710	1610	
		TRT 722	1710	1610	
		TRT 7220	1710	1610	
		TRQ 7220	1710 H.D.	1710	
		RT 910	1710	1610	
		RTO 910	1710	1610	
		RTO 9513	1710 H.D.	1610	
		RT 915	1710	1610	
		RTO 915	1710	1610	
ETAZ 673A (MACK 12.5 CFM)	CL 75 CL 78 CL 79 CL 721	TRDL 107	1810	1710	SWTL 56C-W
		TRTXL 107	1880	1810	
		RT 1110	1710 H.D.	1710	
		RTO 1110	1710	1610	
		RT 12510	1710 H.D.	1710	
		RTO 12510	1710	1610	
		RT 12513	1810 H.D.	1710	
		RTO 12513	1810 H.D.	1710	
		TRDL 107	1810	1710	
		TRTXL 107	1880	1810	
8V-71N (304 h.p.) (MACK 12.5 CFM)	CL 69 CL 75 CL 77 CL 78 CL 79	TRD 722	1710	1710	SWS 57C-W
		TRD 7220	1710	1610	
		TRT 722	1710	1710	
		TRT 7220	1710	1610	
		TRQ 7220	1710 H.D.	1710	
		RT - RTO 910	1710	1610	
		RTO 9513	1710 H.D.	1710	
		RT 915	1710 H.D.	1710	
		RTO 915	1710	1710	
		HT 740 D	1710	1610	
HT 750 CRD	1710	1610			
HT 750 DRD	1810 H.D.	1710			
8V-71N (280 h.p.) (MACK 12.5 CFM)	CL 69 CL 75 CL 77 CL 78 CL 79	TRD 7220	1710	1610	SWS 57C-W
		TRT 7220	1710	1610	
		TRQ 7220	1710 H.D.	1710	
		RT - RTO 910	1710	1610	
		RTO 9513	1710 H.D.	1710	
		RT 915	1710 H.D.	1710	
		RTO 915	1710	1710	
		HT 740 D	1710	1610	
		HT 750 CRD	1710	1610	
		HT 750 DRD	1810 H.D.	1710	

ENGINE†	CLUTCH	TRANSMISSION	*DRIVESHAFT SERIES		BOGIE						
			MAIN	INTER-AXLE							
8V-71NE (MACK 12.5 CFM)	CL 69 CL 75 CL 77 CL 78 CL 79	TRD 7220	1710	1610	SWA 57C-W						
		TRT 7220	1710	1610							
		TRQ 7220	1710 H.D.	1710							
		RT - RTO 910	1710	1610							
		RTO 9513	1710	1710							
		RT 915	1710	1710							
		RTO 915	1710	1610							
		HT 740 D	1710	1610							
		HT 750 CRD	1610	1610							
		HT 750 DRD	1710 H.D.	1710							
NTC 350 NTCC 350 (Cummins 12 CFM)	CL 75 CL 78 CL 79	RT - RTO 12510	1810	1710	SWA 57C-W						
		RT - RTO 12513	1810	1710							
		TRDL 107	1810	1710							
		HT 740 D	1810	1710							
		HT 750 CRD	1710	1610							
		HT 750 DRD	1810 H.D.	1710 H.D.							
		ENDT 675 (MACK 12.5 CFM Maxidyne) ENDT 675C (MACK 12.9 CFM)	CL 69 CL 75 CL 77 CL 78 CL 79 CL 721	TRL 1076		1710	1610	SWS 56C-W			
				TRL 1078		1710	1610				
				HT 740 D		1710	1610				
				HT 750 DRD		1810 H.D.	1710				
ENDT 676 (Maxidyne) (MACK 12.5 CFM)	CL 75 CL 78 CL 79 CL 721			TRL 1076	1810	1710	SWTL 56C-W				
				TRL 1078	1810	1710					
				HT 740 D	1810	1710					
				HT 750 DRD	1880	1710 H.D.					
				ENDT 865 (Maxidyne) ENDT 865C (MACK 12.5 CFM)	CL 75 CL 78 CL 79 CL 721	TRL 1076			1810	1710	SWA 57C-W
						TRL 1078			1810	1710	
		HT 740 D	1810			1710					
		HT 750 DRD	1880			1810					
		ENDT 866 ENDT 866C (MACK 12.5 CFM)	CL 721 CL 75 CL 78 CL 79			TRDL 107		1810	1710	SWA 57C-W	
						HT 740 D		1810	1710		
HT 750 CRD	1810					1710					

*DRIVESHAFT SERIES REPRESENTS SIZE, NOT MANUFACTURER.
†STANDARD AIR COMPRESSOR SHOWN.



WB	Standard Cab CA 47		Sleeper Cab CAS 48		AF	OL	Turning Circle Dia. (Outer edge of tire) Est.		
	LP	CA	LP	CA			Right	Left	
138	165	116	129	80	49	214.5	50.5 ft.	50.5 ft.	
144	171	122	135	86	49	220.5	57 ft.	57 ft.	
150	177	128	141	92	49	225.5	61 ft.	61 ft.	
165	192	143	156	107	49	241.5	65 ft.	65 ft.	
186	271	164	235	128	107	320.5	71 ft.	71 ft.	
244	343	222	307	186	121	392.5	88 ft.	88 ft.	

Chassis dimensions are in inches and are for standard chassis unless otherwise denoted.

TIRE SIZE	OH Approx.	RH		OT
		Empty	Loaded	
10.00-20	114.6	40.4	37.7	95.3
10.00-22	115.6	41.4	38.7	95.3
11.00-20	115.2	41.0	38.3	96.0

Frame heights are subject to variations: 1" empty, 1/2" loaded.