**A4****208
MID-RANGER****4 x 2 Heavy Duty Chassis****STANDARD SPECIFICATIONS**

WHEELBASE: 128" (3.2512 metres)

FRAME: 9.5 x 3.5 x .25 Outer

9.0 x 3.0 x .25 Inner

Material: Hot Rolled/Cold Formed High Tensile Steel

Section Modulus: 19.78

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: Rockwell RA120 (R170) 23,000 lb. (10,432.8 kg)

REAR SUSPENSION: Leader-Bartuska Type 23,000 lb.
Nom. Capacity (10,432.8 kg)

ENGINE: Caterpillar 3208 Diesel V8

Type: Naturally Aspirated

Bore: 4.5" (114 mm)

Stroke: 5" (127 mm)

Displacement: 636 cu. inches (10.4 litres)

Power Ratings: 210 h.p. (160 kw) @ 2,800 rpm

Peak Torque: 485 lb. ft. (658 Nm) @ 1,400 rpm

Inlet Air: Donaldson FHG12 Double Element with
Donaldson 5" Air Ram

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 2 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking
Lights, Stop and Tail Lights, Automatic Back-
up Lights

TRANSMISSION: Eaton Fuller RT610 RT613

CLUTCH: 13" Twin Plate

DRIVESHAFT: Spicer 1710 Series with Spicer Universal
Joints

STEERING: ZF Power 7429 (Full Integral)

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: Single Vertical with Muffler and Rain Cap

FUEL TANK: 50 Gallon Round Steel (227.3 Litres)

CABIN: Reinforced plastic (fibreglass) cab over engine design,
laminated windscreen, Bostrom suspension driver's
seat and one fixed position passenger's seat, lap type
seat belts, exterior sunvisor, Westcoast mirrors,
rubber floor mats.

INSTRUMENTS ETC.: Air horn, heater demister, windscreen
washers, speedometer, tachometer with hour meter,
water temperature, voltmeter, fuel gauge, air and
oil pressure, low air alarm.

TOOL KIT: 12 Ton Jack and Handle
Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or Krombrite
Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

FUEL TANKS: Extra 50 Gallon Round Steel (227.3 litres)
Extra 70 Gallon Round Steel (318.2 litres)
Twin 100 Gallon Rectangular Steel
(455 litres x 2)

TRAILER BRAKE AND ELECTRICAL CONNECTIONS:
Westinghouse or P.B.R. CA300 Hand Control

TRANSMISSION: Allison MT653 5 Speed Automatic

CABIN: Cab Forward
Cab Lowered/Forward
Cab Trim with Chrome Accessories

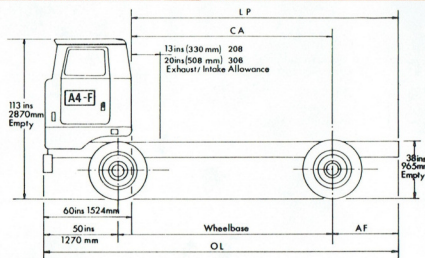
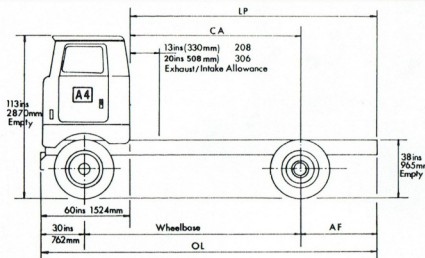
PAINT: Special non-standard colours — Chassis and Running
Gear

LEADER TRUCKS AUSTRALIA

TOOWOOMBA, Q'LAND.

A4

208 MID-RANGER



	Wheelbase		O L		L P		C A		A F		Tare Weight			
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Front Axle	Rear Axle	Tons	Tonnes
Forward	124	3150	226	5740	166	4216	114	2896	52	1321				
Standard	144	3658	226	5740	166	4216	114	2896	52	1321				
Forward	145	3683	255	6477	195	4953	135	3429	60	1524				
Standard	165	4191	255	6477	195	4953	135	3429	60	1524				
Forward	175	4445	285	7239	225	5715	165	4191	60	1524				
Standard	195	4953	285	7239	225	5715	165	4191	60	1524				
Forward	197	5004	307	7798	247	6274	187	4750	60	1524				
Standard	217	5512	307	7798	247	6274	187	4750	60	1524				
Forward	220	5588	354	8992	294	7468	210	5334	84	2134				
Standard	232	5893	380	9652	320	8128	222	5639	98	2489				
Forward	240	6096	354	8992	294	7468	210	5334	84	2134				
Standard	252	6401	380	9652	320	8128	222	5639	98	2489				

Wheelbases longer than 217" are subject to approval of application by Manufacturer

TRANSMISSIONS

RT613

	Speed	Ratio	% Step
Direct Range	13th	1.00	24
	12th	1.24	29
	11th	1.60	28
	10th	2.05	28
	9th	2.62	26
Intermediate Range	8th	3.29	24
	7th	4.09	29
	6th	5.26	28
	5th	6.74	28
	4th	8.64	27
Low Range	3rd	10.96	
	2nd	14.04	
	1st	18.00	28
	Dir. Rev.	2.77	
	Inter. Rev.	9.12	
	Low Rev.	19.00	

RT610

	Speed	Ratio	% Step
Direct Range	10th	1.00	24
	9th	1.24	29
	8th	1.60	28
	7th	2.05	28
	6th	2.62	31
Intermediate Range	5th	3.43	24
	4th	4.26	29
	3rd	5.48	28
	2nd	7.02	28
	1st	9.00	
Low Range	High Reverse	2.77	
	Low Reverse	9.50	
	RTO-610 overdrive model also available		

MT653

First	8.04
Second	3.58
Third	2.09
Fourth	1.39
Fifth	1.00
Reverse	5.67

OPTIONAL EXTRAS

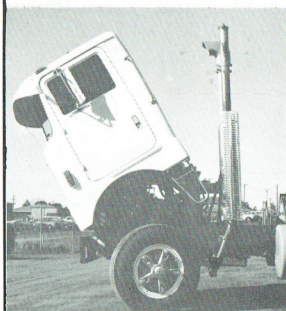
- Bull Bar
- Half Bull Bar
- Hand Throttle
- Kienzle Tachograph
- Full Mine Specification
- Exhaust and Electrical
- Pre-Cleaner
- Heavy Duty Towing
- Crossmember
- Tyre Inflation Equipment
- Tyre Carrier - Wind Up Type

WHEELS AND TYRES

Cast Spoke Wheels with 7½" Sankey Benson three piece demountable rims.

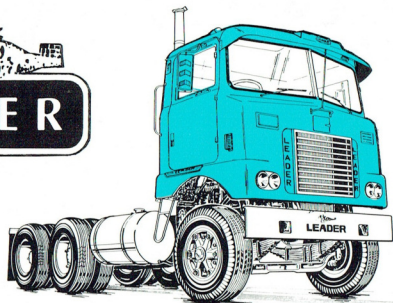
Front: 1000 x 20 x 14 ply Conventional

Rear: 1000 x 20 x 12 or 14 ply Conventional or Crossrib



Cab tilt angle illustrated - 30°

DISTRIBUTED BY:



A6

406 OVERLANDER

6 x 4 Heavy Duty Chassis



STANDARD SPECIFICATIONS

WHEELBASE: 915" (4.953 metres)

FRAME: 9.5 x 3.5 x .25 Outer

9.0 x 3.0 x .25 Inner

Material: Hot Rolled/Cold Formed High Tensile Steel

Section Modulus: 19.78

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: Rockwell SP40, 40,000 lb. Nom. Cap. (18,144 kg)

REAR SUSPENSION: Hendrickson RTEA 380, 38,000 lb. Nom. Cap. (17,236.8 kg)

ENGINE: Caterpillar 3406 with Brakesaver

Type: Turbocharged

Bore: 5.4" (137mm)

Stroke: 6.5" (165mm)

Displacement: 893 cu. inches (14.61 litres)

Power Ratings: 325 h.p. (240kw) @ 2100 rpm

Peak Torque: 1015 lb.ft.(1376Nm) @ 1200 rpm

Inlet Air: Donaldson 16" Double Element with Air Ram

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 4 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking Lights, Stop and Tail Lights, Automatic Back-up Lights

TRANSMISSION: 1200 Series Roadranger
1200 Series Spicer

CLUTCH: 15½" Spicer Twin Plate

DRIVESHAFT: Spicer 1810 Series with Spicer Universal Joints

STEERING: ZF Power 7429 Full Integral

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: Single Vertical with Muffler and Rain Cap

FUEL TANK: 70 Gallon Round Steel (318.22 Litres)

CABIN: Reinforced plastic (fibreglass) Cab over engine design, laminated windscreen, Bostrom suspension driver's seat and one fixed position passenger's seat, lap type seat belts, exterior sunvisor, Westcoast mirrors, rubber floor mats.

INSTRUMENTS: Air horn, heater demister, windscreen washers, speedometer, tachometer with hour meter, water temperature, voltmeter, fuel gauge, air and oil pressure, low air alarm, pyrometer, Brakesaver Oil Temperature Gauge, Brakesaver Control Pressure Gauge.

TOOL KIT: 12 Ton Jack and Handle Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or Krombrite Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

FUEL TANKS: Extra 50 Gallon Round Steel (227.3 Litres)

Extra 70 Gallon Round Steel (318.2 Litres)

Twin 100 Gallon Rectangular Steel (455 Litres x 2)

TRAILER BRAKE AND ELECTRICAL CONNECTIONS: Westinghouse or PBR CA300 Hand Control

TRANSMISSION: Allison HT750 5 Speed automatic with retarder (engine without Brakesaver)

CABIN: Full Sleeper Cab
Cab Trim with Chrome Accessories

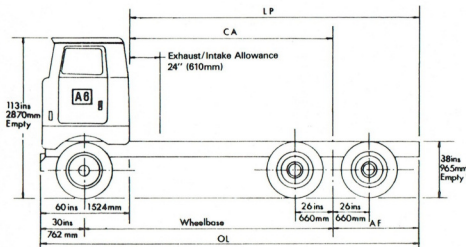
PAINT: Special non-standard colours - Chassis and Running Gear.

LEADER TRUCKS AUSTRALIA

TOOWOOMBA, Q'LAND.

A6

406 OVERLANDER



Wheelbase		O L		L P		C A		A F	
ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
144	3658	226	5740	166	4216	114	2896	52	1321
165	4191	255	6477	195	4953	135	3429	60	1524
195	4953	285	7239	225	5715	165	4191	60	1524
217	5512	307	7798	247	6274	187	4750	60	1524
240	6096	354	8992	294	7468	210	5334	84	2134
252	6401	380	9652	320	8128	222	5639	98	2489
283	7188	380	9652	320	8128	253	6426	67	1701

Wheelbases longer than 217" are subject to approval of application by Manufacturer

OPTIONAL EXTRAS

Bull Bar - Half Bull Bar - Hand Throttle - Kienzle Tachograph
- Full Mine Specification Exhaust and Electrical - Pre-Cleaner
- Heavy Duty Towing Crossmember - Tyre Inflation Equipment - Tyre Carrier (Wind-Up Type)

RT-12509 GEAR RATIOS		
Speed	Ratio	% Step
8th	1.00	
		35
7th	1.35	
		34
6th	1.81	
		36
5th	2.47	
Range Shift		37
4th	3.38	
		35
3rd	4.56	
		34
2nd	6.12	
		36
1st	8.35	
		50
Lo	12.50	
Rev.	3.87	
Lo-Rev.	13.07	

RT-12515 GEAR RATIOS		
Ratio	% Step	Speed
1.00		27
1.27		30
1.65		30
2.11		30
2.74		30
3.55		30
4.50		30
5.83		28
7.49		30
9.71		30
13.87		30
5.07	27	5th - 13
6.43	30	4th - 10
8.34	30	3rd - 11
10.70	28	2nd - 10
13.87	30	1st
High Reverse		2.74
Low Reverse		9.71
Deep Reduction Reverse		13.87

BRAKESAVER

Cat BrakeSaver hydraulic retarder gives more braking power and additional capability independent of service brakes, improves driving safety . . . extends brake life.

A hand lever is moved to apply the desired amount of retarding and disengaging the clutch cancels the retarding effect.

When the BrakeSaver is activated, engine oil is pumped into the retarder creating a hydraulic coupling.

Oil is picked up by a spinning rotor (driven by the crankshaft) and thrown against the stationary fins (Stator). The churning action of the oil provides braking effort. The more oil pumped into the retarder, the greater the braking effort. When disengaged, the oil supply is shut off and the rotor pumps out the remaining oil.

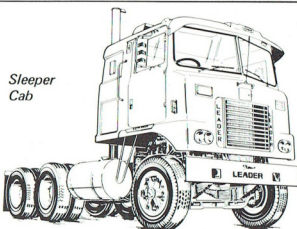
		Model 1214-2A (Direct)		Model 1214-3A (Overdrive)	
STICK POSITION	GEAR	RATIO	MPH	RATIO	MPH
1	1st	12.35	5	12.35	5
	2nd	10.41	6	10.41	6
2	3rd	7.53	8	7.05	8.5
	4th	6.34	9.5	5.94	10
3	5th	4.67	13	4.17	14.5
	6th	3.93	15.5	3.50	17
4	7th	3.29	18.5	2.75	22
	8th	2.76	22	2.31	26
	9th	2.36	25.5	1.97	30.5
	10th	1.98	30.5	1.66	36
5	11th	1.66	36	1.39	43
	12th	1.39	43	1.17	51
	13th	1.19	51	1.00	60
	14th	1.00	60	.84	71
	Rev.	12.35	-	12.35	-
		10.41	-	10.41	-
		8.86	-	8.86	-
		7.47	-	7.47	-

FACET FAN CLUTCH

When the engine coolant reaches a preset temperature, electrical current is allowed to flow through the coil in the magnet body. This flow of current magnetically attracts the armature to the inner body and brings the fan up to full fan hub speed.

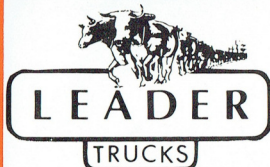
When the engine coolant has cooled sufficiently, the electrical current is stopped and springs pull the armature away from the inner body, allowing the fan to coast down to an idle condition.

- ☆ Saves fuel and horsepower - up to 10% more
- ☆ Reduces fan and overall vehicle noise
- ☆ Faster engine warm-up and reduced engine wear
- ☆ Helps maintain optimum engine operating temperature
- ☆ No fluid or air lines to leak
- ☆ Activated by engine coolant temperature, not air coming through radiator



DISTRIBUTED BY:

The Manufacturer reserves the right to alter without notice any aspect of this specification.



A8

208 MID-RANGER

8 x 4 Heavy Duty Chassis



STANDARD SPECIFICATIONS

WHEELBASE: 217" (5,512 metres)

FRAME: 9.5 x 3.5 x .25 Outer
9.0 x 3.0 x .25 Inner

Material: Hot Rolled/Cold Formed High Tensile Steel

Section Modulus: 19.78

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: SLHD 34,000 lb. (15,422.4 kg)
52" Axle Spacing

REAR SUSPENSION: Hendrickson RTEA340 34,000 lb.
Nom. Capacity (15,422.4 kg)

ENGINE: Caterpillar 3208 Diesel V8

Type: Naturally Aspirated

Bore: 4.5" (114 mm)

Stroke: 5" (127 mm)

Displacement: 636 cu. inches (10.4 litres)

Power Ratings: 210 h.p. (160 kw) @ 2,800 rpm

Peak Torque: 485 lb. ft. (658 Nm) @ 1,400 rpm

Inlet Air: Donaldson FHG12 Double Element with
Donaldson 5" Air Ram

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 2 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking
Lights, Stop and Tail Lights, Automatic Back-
up Lights

TRANSMISSION: Eaton Fuller RT610 RT613

CLUTCH: 13" Twin Plate

DRIVESHAFT: Spicer 1710 Series with Spicer Universal
Joints

STEERING: ZF Power 7429 (Full Integral)

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: Single Vertical with Muffler and Rain Cap

FUEL TANK: 70 Gallon Round Steel (318.22) Litres

CABIN: Reinforced plastic (fibreglass) cab over engine design,
laminated windshield, Bostrom suspension driver's
seat and one fixed position passenger's seat, lap type
seat belts, exterior sunvisor, Westcoast mirrors,
rubber floor mats.

INSTRUMENTS ETC.: Air horn, heater demister, windshield
washers, speedometer, tachometer with hour meter,
water temperature, voltmeter, fuel gauge, air and
oil pressure, low air alarm.

TOOL KIT: 12 Ton Jack and Handle
Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or Krombrite
Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

REAR AXLE: Rockwell SQHD 38,000 lb. (17,237 kg)
52" Axle Spacing

REAR SUSPENSION: Hendrickson RTEA 380 38,000 lb.
(17,237 kg)
Reyco 6 Point 4 Spring 40,000 lb.
(18,144 kg)

FUEL TANKS: Extra 50 Gallon Round Steel (227.3 litres)
Extra 70 Gallon Round Steel (318.2 litres)
Twin 100 Gallon Rectangular Steel
(455 litres x 2)

TRAILER BRAKE AND ELECTRICAL CONNECTIONS:
Westinghouse or P.B.R. CA300 Hand Control

TRANSMISSION: Allison MT653 5 Speed Automatic

CABIN: Cab Forward
Cab Lowered/Forward
Cab Trim with Chrome Accessories

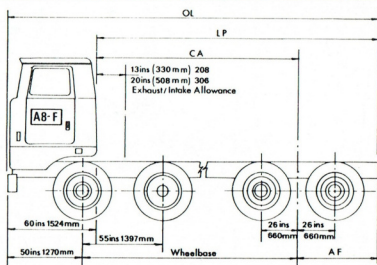
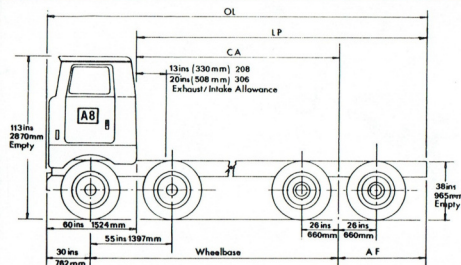
PAINT: Special non-standard colours — Chassis and Running
Gear

LEADER TRUCKS AUSTRALIA

TOOWOOMBA, Q'LAND.

A8

208 MID-RANGER



	Wheelbase		O L		L P		C A		A F		Tare Weight			
	ins	mm	ins	mm	ins	mm	ins	mm	ins	mm	Front Axle Tons	Tonnes	Rear Axle Tons	Tonnes
Forward	197	5004	307	7798	247	6274	187	4750	60	1524				
Standard	217	5512	307	7798	247	6274	187	4750	60	1524				
Forward	220	5588	354	8992	294	7468	210	5334	84	2134				
Forward	232	5893	380	9652	320	8128	222	5639	98	2489				
Standard	240	6096	354	8992	294	7468	210	5334	84	2134				
Standard	252	6401	380	9652	320	8128	222	5639	98	2489				
Forward	263	6680	380	9652	320	8128	253	6426	67	1701				
Standard	283	7188	380	9652	320	8128	253	6426	67	1701				

TRANSMISSIONS

RT613

	Speed	Ratio	% Step
Direct Range	13th	1.00	24
	12th	1.24	29
	11th	1.60	28
	10th	2.05	28
	9th	2.62	26
Intermediate Range	8th	3.29	24
	7th	4.09	29
	6th	5.26	28
	5th	6.74	28
	4th	8.64	27
Low Range	3rd	10.96	28
	2nd	14.04	28
	1st	18.00	
	Dir. Rev.	2.77	
	Inter. Rev.	9.12	
	Low Rev.	19.00	

RT610

	Speed	Ratio	% Step
High Range	10th	1.00	24
	9th	1.24	29
	8th	1.60	28
	7th	2.05	28
	6th	2.62	31
Low Range	5th	3.43	24
	4th	4.26	29
	3rd	5.48	28
	2nd	7.02	28
	1st	9.00	
	High Reverse	2.77	
	Low Reverse	9.50	
	RTO-610 overdrive model also available.		

MT653

First	8.04
Second	3.58
Third	2.09
Fourth	1.39
Fifth	1.00
Reverse	5.67

OPTIONAL EXTRAS

- Bull Bar
- Half Bull Bar
- Hand Throttle
- Kienzle Tachograph
- Full Mine Specification
- Exhaust and Electrical
- Pre-Cleaner
- Heavy Duty Towing Crossmember
- Front Shock Absorber Kits
- Tyre Inflation Equipment
- Tyre Carrier — Wind Up Tyre

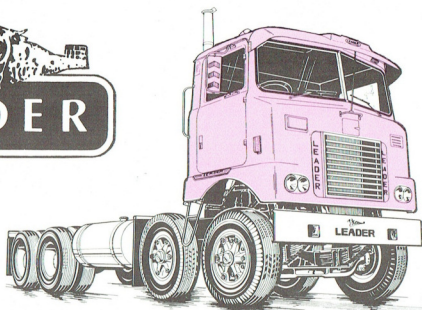
WHEELS AND TYRES

- Cast Spoke Wheels with 7 1/2" Sankey Benson three piece demountable rims.
- Front: 1000 x 20 x 12 or 14 ply Conventional
- Rear: 1000 x 20 x 12 or 14 ply Conventional or Crossrib



Cab tilt angle illustrated — 30°

DISTRIBUTED BY:



A8

406 OVERLANDER

8 x 4 Heavy Duty Chassis



STANDARD SPECIFICATIONS

WHEELBASE: 217" (5,111 metres)

FRAME: 9.5 x 3.5 x .25 Outer

9.0 x 3.0 x .25 Inner

Material: Hot Rolled/Cold Formed High Tensile Steel

Section Modulus: 19.78

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: Rockwell SP40, 40,000 lb. Nom. Cap. (18,144 kg)

REAR SUSPENSION: Hendrickson RTEA 380, 38,000 lb. Nom. Cap. (17,236.8 kg)

ENGINE: Caterpillar 3406 with Brakesaver

Type: Turbocharged

Bore: 5.4" (137mm)

Stroke: 6.5" (165mm)

Displacement: 893 cu. inches (14.61 litres)

Power Ratings: 325 h.p. (240kw) @ 2100 rpm

Peak Torque: 1015 lb.ft.(1376Nm) @ 1200 rpm

Inlet Air: Donaldson 16" Double Element with Air Ram

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 4 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking Lights, Stop and Tail Lights, Automatic Back-up Lights

TRANSMISSION: 1200 Series Roadranger
1200 Series Spicer

CLUTCH: 15½" Spicer Twin Plate

DRIVESHAFT: Spicer 1810 Series with Spicer Universal Joints

STEERING: ZF Power 7429 Full Integral

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: Single Vertical with Muffler and Rain Cap

FUEL TANK: 70 Gallon Round Steel (318.22 Litres)

CABIN: Reinforced plastic (fibreglass) Cab over engine design, laminated windscreen, Bostrom suspension driver's seat and one fixed position passenger's seat, lap type seat belts, exterior sunvisor, Westcoast mirrors, rubber floor mats.

INSTRUMENTS: Air horn, heater demister, windscreen washers, speedometer, tachometer with hour meter, water temperature, voltmeter, fuel gauge, air and oil pressure, low air alarm, pyrometer, Brakesaver Oil Temperature Gauge, Brakesaver Control Pressure Gauge.

TOOL KIT: 12 Ton Jack and Handle Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or Krombrite Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

FUEL TANKS: Extra 50 Gallon Round Steel (227.3 Litres)

Extra 70 Gallon Round Steel (318.2 Litres)

Twin 100 Gallon Rectangular Steel (455 Litres x 2)

TRAILER BRAKE AND ELECTRICAL CONNECTIONS: Westinghouse or PBR CA300 Hand Control

TRANSMISSION: Allison HT750 5 Speed automatic with retarder (engine without Brakesaver)

CABIN: Cab Trim with Chrome Accessories

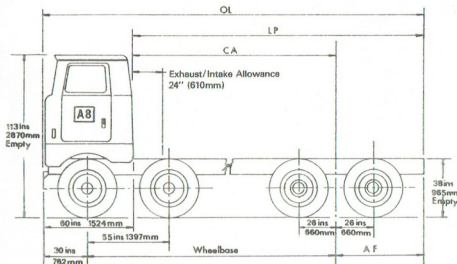
PAINT: Special non-standard colours - Chassis and Running Gear.

LEADER TRUCKS AUSTRALIA

TOOWOOMBA, Q'LAND.

A8

406 OVERLANDER



Wheelbase		O L		L P		C A		A F	
ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
217	5512	307	7798	247	6274	187	4750	60	1524
240	6096	354	8992	294	7468	210	5334	84	2134
262	6401	380	9652	320	8128	222	5639	98	2489
283	7188	380	9652	320	8128	253	6426	67	1701

Wheelbases longer than 217" are subject to approval of application by Manufacturer

OPTIONAL EXTRAS

Bull Bar—Half Bull Bar—Hand Throttle—Kienzle Tachograph
—Full Mine Specification Exhaust and Electrical—Pre-Cleaner
—Heavy Duty Towing Crossmember—Tyre Inflation Equipment—Tyre Carrier (Wind-Up Type)

BRAKESAVER

Cat BrakeSaver hydraulic retarder gives more braking power and additional capability independent of service brakes, improves driving safety . . . extends brake life.

A hand lever is moved to apply the desired amount of retarding and disengaging the clutch cancels the retarding effect.

When the BrakeSaver is activated, engine oil is pumped into the retarder creating a hydraulic coupling.

Oil is picked up by a spinning rotor (driven by the crankshaft) and thrown against the stationary fins (Stator). The churning action of the oil provides braking effort. The more oil pumped into the retarder, the greater the braking effort. When disengaged, the oil supply is shut off and the rotor pumps out the remaining oil.

FACET FAN CLUTCH

When the engine coolant reaches a preset temperature, electrical current is allowed to flow through the coil in the magnet body. This flow of current magnetically attracts the armature to the inner body and brings the fan up to full fan hub speed.

When the engine coolant has cooled sufficiently, the electrical current is stopped and springs pull the armature away from the inner body, allowing the fan to coast down to an idle condition.

- ☆ Saves fuel and horsepower — up to 10% more
- ☆ Reduces fan and overall vehicle noise
- ☆ Faster engine warm-up and reduced engine wear
- ☆ Helps maintain optimum engine operating temperature
- ☆ No fluid or air lines to leak
- ☆ Activated by engine coolant temperature, not air coming through radiator

RT-12509 GEAR RATIOS				RT-12515 GEAR RATIOS			
Speed	Ratio	% Step		Ratio	% Step	Speed	
8th	1.00	35		1.00		27	10th
7th	1.35	34		1.27		30	9th
6th	1.81	36		1.65		30	8th
5th	2.47	37		2.11		30	7th
Range Shift				2.74		30	6th
4th	3.38	35		3.55		27	5th
3rd	4.56	34		4.50		30	4th
2nd	6.12	36		5.83		28	3rd
1st	8.35	50		7.49		30	2nd
Lo	12.50			9.71		30	1st
Rev.	3.87						
Lo-Rev.	13.07						

Model 1214-2A (Direct)

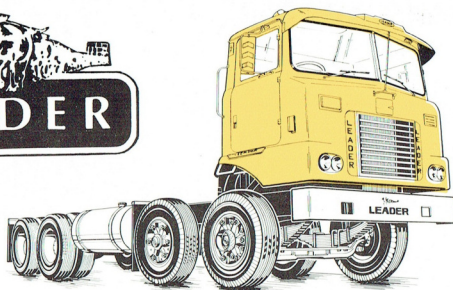
Model 1214-3A (Overdrive)

STICK POSITION	GEAR	RATIO	MPH	RATIO	MPH
1	1st	12.35	5	12.35	5
	2nd	10.41	6	10.41	6
2	3rd	7.53	8	7.05	8.5
	4th	6.34	9.5	5.94	10
3	5th	4.67	13	4.17	14.5
	6th	3.93	15.5	3.50	17
4	7th	3.29	18.5	2.75	22
	8th	2.76	22	2.31	26
	9th	2.36	25.5	1.97	30.5
	10th	1.98	30.5	1.66	36
5	11th	1.66	36	1.39	43
	12th	1.39	43	1.17	51
	13th	1.19	51	1.00	60
	14th	1.00	60	.84	71
Rev.		12.35	—	12.35	—
		10.41	—	10.41	—
		8.86	—	8.86	—
		7.47	—	7.47	—

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Harrison Printing Company, Toowoomba



A8

92 OVERLANDER

8 x 4 Heavy Duty Chassis



STANDARD SPECIFICATIONS

WHEELBASE: 197" (5.003 metres)

FRAME: 9.5 x 3.5 x .25 Outer
9.0 x 3.0 x .25 Inner
Material: Hot Rolled/Cold Formed High Tensile Steel

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: Rockwell SP40, 40,000 lb. Nom. Cap.
(18,144 kg)

REAR SUSPENSION: Hendrickson RTEA 380, 38,000 lb.
Nom. Cap. (17,236.8 kg)

ENGINE: GM9V92N with Jacobs Brake
GM6V92T with Jacobs Brake
GM6V92TT with fan clutch and Jacobs Brake

Engine Specifications overleaf

AIR CLEANER: Twin FWA Single Element

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 4 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking
Lights, Stop and Tail Lights, Automatic Back-
up Lights

TRANSMISSION: N:900 Series Roadranger
T & TT: 1200 Series Roadranger
1200 Series Spicer

CLUTCH: 15½" Spicer Twin Plate ("N" Motor 14")

DRIVESHAFT: Spicer 1810 Series with Spicer Universal
Joints

STEERING: ZF Power 7429 Full Integral

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: T & TT: Single Vertical with Muffler and
rain cap

N: Twin Vertical with Muffler and
rain cap

FUEL TANK: 70 Gallon Steel (318.22 Litres)

CABIN: Reinforced plastic (fibreglass) Cab over engine
design, laminated windscreen, Bostrom suspen-
sion driver's seat and one fixed position
passenger's seat, lap type seat belts, exterior
sunvisor, Westcoast mirrors, rubber floor mats.

INSTRUMENTS: Air horn, heater demister, windscreen
washers, speedometer, tachometer with
hour meter, water temperature, volt-
meter, fuel gauge, air and oil pressure,
low air alarm, pyrometer, Jacobs Brake
control switch

TOOL KIT: 12 Ton Jack and Handle Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or
Krombrite Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

FUEL TANKS: Extra 50 Gallon Round Steel
(227.3 Litres)
Extra 70 Gallon Round Steel
(318.2 Litres)
Twin 100 Gallon Rectangular Steel
(455 Litres x 2)

TRAILER BRAKE AND ELECTRICAL CONNECTIONS:
Westinghouse or PBR CA300 Hand Control

TRANSMISSION: Allison H1750 5 Speed automatic with
retarder (engine without Jacobs Brake)

CABIN: Full Sleeper Cab
Cab Trim with Chrome Accessories

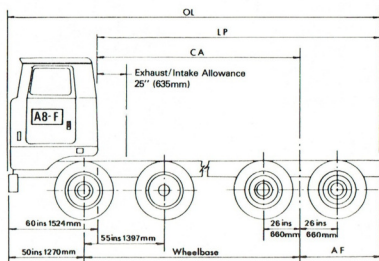
PAINT: Special non-standard colours - Chassis and
Running Gear.

LEADER TRUCKS AUSTRALIA

TOOWOOMBA, Q'LAND.

A8

92 OVERLANDER



Forward Cab only available with GM engine

Wheelbase		O L		L P		C A		A F	
ins	mm	ins	mm	ins	mm	ins	mm	ins	mm
197	5004	307	7798	247	6274	187	4750	60	1524
220	5588	354	8992	294	7468	210	5334	84	2134
232	5893	380	9652	320	8128	222	5639	98	2489
263	6680	380	9652	320	8128	253	6426	67	1701

Wheelbases longer than 217" are subject to approval of application by Manufacturer

OPTIONAL EXTRAS

Bull Bar – Half Bull Bar – Hand Throttle – Kienzle Tachograph
 – Full Mine Specification Exhaust and Electrical – Pre-Cleaner
 – Heavy Duty Towing Crossmember – Tyre Inflation Equipment
 – Tyre Carrier (Wind-Up Type)

ENGINES

GM 6V92 N with Jacobs Brake

With 900 series manual or MT 654 automatic
 Rated Power: 276 h.p. (206 kW) @ 2100 rpm
 Torque: 737 lb. ft. (999 Nm) @ 1400 rpm

GM 6V92 T with Jacobs Brake

With 1200 series manual or HT 750 automatic
 Rated Power: 335 h.p. (250 kW) @ 2100 rpm
 Torque: 958 lb. ft. (1299 Nm) @ 1200 rpm

GM 6V92 TT with Fan Clutch and Jacobs Brake

Same transmission as T
 Rated Power: 270 h.p. (201 kW) @ 1950 rpm
 Torque: 958 lb. ft. (1299 Nm) @ 1200 rpm

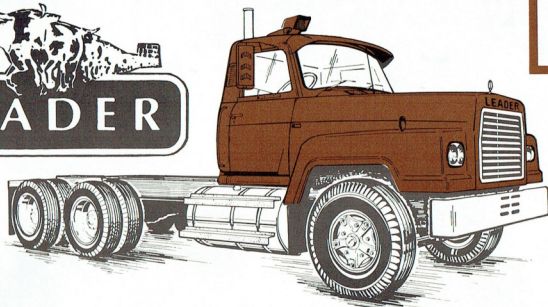
RT-12509 GEAR RATIOS		
Speed	Ratio	% Step
8th	1.00	35
7th	1.35	34
6th	1.81	36
5th	2.47	37
Range Shift		
4th	3.38	35
3rd	4.56	34
2nd	6.12	36
1st	8.35	50
Lo	12.50	
Rev.	3.87	
Lo-Rev.	13.07	

RT-12515 GEAR RATIOS		
Ratio	% Step	Speed
1.00	27	10th
1.27	30	9th
1.65	28	8th
2.11	30	7th
2.74	30	6th
3.55	27	5th
4.50	30	4th
5.83	28	3rd
7.49	30	2nd
9.71	10	1st
13.87		
5.07	27	5th
6.43	30	4th
8.34	28	3rd
10.70	30	2nd
13.87		1st
High Reverse		2.74
Low Reverse		9.71
Deep Reduction Reverse		13.87

		Model 1214-2A (Direct)		Model 1214-3A (Overdrive)	
STICK POSITION	GEAR	RATIO	MPH	RATIO	MPH
1	1st	12.35	5	12.35	5
	2nd	10.41	6	10.41	6
2	3rd	7.53	8	7.05	8.5
	4th	6.34	9.5	5.94	10
3	5th	4.67	13	4.17	14.5
	6th	3.93	15.5	3.50	17
4	7th	3.29	18.5	2.75	22
	8th	2.76	22	2.31	26
	9th	2.36	25.5	1.97	30.5
	10th	1.98	30.5	1.66	36
5	11th	1.66	36	1.39	43
	12th	1.39	43	1.17	51
	13th	1.19	51	1.00	60
	14th	1.00	60	.84	71
Rev.	12.35	—	12.35	—	—
	10.41	—	10.41	—	—
	8.86	—	8.86	—	—
	7.47	—	7.47	—	—

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B6

406 CHALLENGER

6 x 4 Heavy Duty Chassis



STANDARD SPECIFICATIONS

WHEELBASE: 195"

FRAME: 9.5 x 3.5 x .25 Outer

9.0 x 3.0 x .25 Inner

Material: Hot Rolled/Cold Formed High Tensile Steel

FRONT AXLE: Rockwell FF932 13,200 lb. (5,987 kg)

FRONT SUSPENSION: Leaf Springs

REAR AXLE: Rockwell SP40, 40,000 lb. Nom. Cap. (18,133 kg)

REAR SUSPENSION: Hendrickson RTEA 380, 38,000 lb. Nom. Cap. (17,236.8 kg)

ENGINE: Caterpillar 3406 Diesel - 6 cylinder

Type: Turbocharged

Bore & Stroke: 5.4 inches (137mm) x 6.5 inches (165mm)

Displacement: 893 cu. inches (14.61 litre)

Peak Torque: 1015 lb.ft. (1376Nm) @ 1200 rpm

Inlet Air: Donaldson FHG16 Double Element with Donaldson 6" Air Ram

STARTING SYSTEM: 12 Volt Electric

ELECTRICAL SYSTEM: Alternator 12 Volt 65 Amp
Batteries 4 x 6 Volt x 23 Plate

ELECTRICS: Horn, Marker Lights, Turn Signals, Parking Lights, Stop and Tail Lights, Automatic Back-up Lights

TRANSMISSION: 1200 Series Roadranger
1200 Series Spicer

CLUTCH: 15½" Spicer Twin Plate

DRIVESHAFT: Spicer 1810 Series with Spicer Universal Joints

STEERING: ZF Power 7429 Full Integral

BRAKES: Air S Cam and Lever, Spring Emergency

EXHAUST: Single Vertical with Muffler and Rain Cap

FUEL TANKS: Twin B5 Gallon Round Aluminium (386.41 Litres)

CABIN: Fibreglass conventional design, laminated windscreen, Bostrom/Isri suspension driver's and passenger's seat, lap type seat belts, exterior sun visor, Westcoast mirrors, carpet, air conditioning, radio cassette, adjustable steering wheel, dual air horns.

INSTRUMENTS: Steering column stalk operated headlight dipper, flasher and windscreen washer, oil pressure, front air pressure, engine temperature, ammeter, fuel, clock, speedometer, tachometer, heater demister, brakesaver temp., brakesaver air pressure.

WARNING LIGHT SYSTEM:

Ignition, hi-beam, flasher, spring brake, low air brakesaver, fan clutch, diff lock, engine temperature warning, reverse light, hazard warning lights.

AIR CONTROLS:

Diff lock, tractor protection, reserve air, wiper, spring brake control.

TOOL KIT: 12 Ton Jack and Handle Wheelbrace

PAINT: Chassis and Running Gear: Red, Black or Krombrite Standard Colours

OPTIONS

WHEELBASE: Refer Chart Overleaf

TRAILER BRAKE AND ELECTRICAL CONNECTIONS:

Westinghouse or PBR CA300 Hand Control

TRANSMISSION: Allison HT750 5 Speed automatic with retarder (Engine without brakesaver)

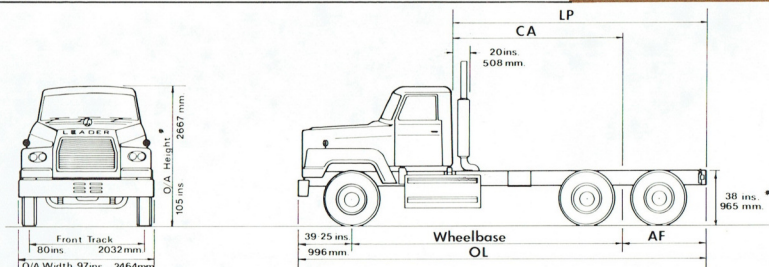
CABIN: Sleeper Box

PAINT: Special non-standard colours - Chassis and Running Gear.

TOOWOOMBA, Q'LAND.

B6

406
CHALLENGER



Wheelbase (W.B.)		C A with Sleeper	C A without Sleeper	L P with Sleeper	L P without Sleeper	A F		O L	
165"	4191mm	—	91.4" 2322mm	—	151.4" 3846mm	60"	1524mm	264.2"	6711mm
195"	4953mm	87" 2209mm	121.4" 3084mm	147" 3733mm	181.4" 4608mm	60"	1524mm	294.2"	7473mm

* Both these height measurements are taken unladen and vary according to suspension type specified.

[illegible]

		Model 1214-2A (Direct)		Model 1214-3A (Overdrive)	
STICK POSITION	GEAR	RATIO	MPH	RATIO	MPH
1	1st	12.35	5	12.35	5
	2nd	10.41	6	10.41	6
2	3rd	7.53	8	7.05	8.5
	4th	6.34	9.5	5.94	10
3	5th	4.67	13	4.17	14.5
	6th	3.93	15.5	3.50	17
4	7th	3.29	18.5	2.75	22
	8th	2.76	22	2.31	26
	9th	2.36	25.5	1.97	30.5
	10th	1.98	30.5	1.66	36
5	11th	1.66	36	1.39	43
	12th	1.39	43	1.17	51
	13th	1.19	51	1.00	60
	14th	1.00	60	.84	71
	Rev.	12.35	—	12.35	—
		10.41	—	10.41	—
		8.86	—	8.86	—
		7.47	—	7.47	—

FACET FAN CLUTCH

When the engine coolant reaches a preset temperature, electrical current is allowed to flow through the coil in the magnet body. This flow of current magnetically attracts the armature to the inner body and brings the fan up to full fan hub speed.

When the engine coolant has cooled sufficiently, the electrical current is stopped and springs pull the armature away from the inner body, allowing the fan to coast down to an idle condition.

- ☆ Saves fuel and horsepower – up to 10% more
- ☆ Reduces fan and overall vehicle noise
- ☆ Faster engine warm-up and reduced engine wear
- ☆ Helps maintain optimum engine operating temperature
- ☆ No fluid or air lines to leak
- ☆ Activated by engine coolant temperature, not air coming through radiator

OPTIONAL EXTRAS

Bull Bar – Half Bull Bar – Hand Throttle – Full Mine Specification Exhaust and Electrical – Pre-Cleaner – Heavy Duty Towing Crossmember – Tyre Inflation Equipment – Tyre Carrier (Wind-Up Type)

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