

TIGHTENING TORQUES

HANDBRAKE (Vac/hyd)	Nm	lbf. ft.
Cable locknut to fork	24	18
Cable clips and brackets	9,5	7
Cable abutment bracket	26	19
Lever pivot bolt	57	42
Pivot bracket to floor	26	19
Relay lever to handbrake lever	48	35
Switch bracket to abutment	26	19
Compensator link pin nut	41	30
Compensator bracket to axle	48	35
Compensator pivot pin nut	106	78

LOAD SENSING VALVE

L.S.V. bracket to frame	57	42
L.S.V. to bracket	57	42
Clamping block bolt.	15	11

MASTER CYLINDER AND SERVO (Vac/hyd)

Master cylinder to servo	24	18
Servo to bulkhead	12	9
Adaptor to servo	20	15

BRAKE ASSEMBLIES (Vac/hyd)

Backplate to rear axle	112	83
Backplate to stub axle M10	57	42
M14	149	110
Front wheel cylinders to backplate		
282 mm (11 inch) brake—capscrew	15	11
—setscrew	12	9
330 mm (13 inch) brake—small setscrew	30,5	22,5
—large setscrew	68	50
Rear wheel cylinders to backplate	15	11
Anchor pin nut (rear brakes)	31	23

PIPES AND HOSES

Hoses to brackets and pipes	12	9
Hose brackets to frame	26	19
Pipe nuts M10 (male)	10	7,5
Pipe nuts all others	12	9

AIR/HYDRAULIC SYSTEM

	Nm	lbf.ft.
Front brake cylinders		
Large retaining setscrew	56	42
Small retaining setscrews	31	23
Rear brake cylinder		
Setscrews	7.4	5.4
Rear brake assembly		
Adjuster lever locknut	7.9	5.8
Park brake expander locknut	7.9	5.8
Spring brake actuator		
Cylinder setscrews	7	5
Master cylinder to tandem actuator	29	21.5
Compressor		
Cylinder head nuts	14	10
Connecting rod nuts.	5	4

DATA**Vacuum/Hydraulic system**

- System Split hydraulic system with vacuum assistance meeting EEC regulations. See 'Description'.
- Actuation Service — footbrake vacuum hydraulic to all wheels. A load sensing valve controls rear brake application.
Secondary — footbrake vacuum hydraulic to unfailed half of system.
Parking — handbrake through mechanical linkage to rear brakes only.
- Brake Assemblies Front and rear drum brakes are self adjusting with manual override (de-adjust) facility.

	Front	Rear
Make	Girling	Girling
Type	HLS/S	Duo Servo
Linings — make	RB35 — Ferodo 2629 others — Mintex S4	All — Mintex S2/S3
— diameter	RB35 — 282,4 (11 $\frac{1}{8}$) others — 330,2 (13)	All — 307,8 (12 $\frac{1}{8}$)
— width	All — 76,2 (3)	RB66 — 101,6 (4) others — 76,2 (3)
— thickness	RB35 — 5,8 (0.23) others — 9,7 (0.38)	All — 7,6 (0.30)
Wheel cylinders — No. per wheel	2	1
— Diameter	31,8 (1.25)	RB35 — 22,2 (0.875) others 25,4 (1.0)

All dimensions in millimetres (inches)

Master Cylinder

- Make Girling with integral fluid reservoir and fluid level indicator.
- Diameter 27 mm (1.062 in)
- Stroke 34,5 mm (1.358 in)

Servo Unit

Make Girling

Type RB35/46 models. Servac 65
RB56/66 models. Supervac 100

Vacuum Source

Petrol engines Induction manifold

Diesel engines Exhauster

Reservoir capacity 5 litres

Handbrake

Overall ratio 19.44 : 1

Efficiency 60%

Warning Devices

Low fluid level Warning light

Low vacuum &] Dual purpose warning light
Handbrake on]

ALL MODELS**Load Sensing Valve (Axle controlled valve)**

Make Lockheed

Type Y156793

Ratio 2.2 : 1 (All Models except RB75)

Ratio 3.38 : 1 (RB75)

Setting Data — See next page.

Load Sensing Valve – Setting data (see sub-section M241)

RB 35				RB 46				RB 56				RB 66				RB 75			
REAR AXLE WEIGHT (kg)	Dim Y (mm)	VALVE TRAVEL (mm)		REAR AXLE WEIGHT (kg)	Dim Y (mm)	VALVE TRAVEL (mm)		REAR AXLE WEIGHT (kg)	Dim Y	VALVE TRAVEL (mm)		REAR AXLE WEIGHT (kg)	Dim Y	VALVE TRAVEL (mm)		REAR AXLE WEIGHT (kg)	Dim Y	VALVE TRAVEL (mm)	
		Plated GVW	A B			Plated GVW	C A			Plated GVW	D E A			Plated GVW	F G			Plated GVW	H J
640 TO 749	84	54	54	720 TO 909	84	50	30	750 TO 969	84	58	50	740 TO 1009	84	62	54	1020 TO 1309	80	62	62
750 TO 869	80	50	50	910 TO 1109	80	46	26	970 TO 1199	80	54	46	1010 TO 1279	80	58	50	1310 TO 1599	76	58	58
870 TO 979	76	46	46	1110 TO 1299	76	42	22	1200 TO 1429	76	50	42	1280 TO 1549	76	54	46	1600 TO 1889	72	54	54
980 TO 1099	72	42	42	1300 TO 1499	72	38	18	1430 TO 1649	72	46	38	1550 TO 1819	72	50	42	1890 TO 2179	68	50	50
1100 TO 1209	68	38	38	1500 TO 1699	68	34	14	1650 TO 1869	68	42	34	1820 TO 2089	68	46	38	2180 TO 2449	64	46	46
1210 TO 1329	64	34	34	1700 TO 1889	64	30	10	1870 TO 2089	64	38	30	2090 TO 2359	64	42	34	2450 TO 2759	60	42	42
1330 TO 1439	60	30	30	1890 TO 2079	60	26	6	2090 TO 2309	60	34	26	2360 TO 2629	60	38	30	2760 TO 3049	56	38	38
1440 TO 1559	56	26	26	2080 TO 2269	56	22	2	2310 TO 2529	56	30	22	2630 TO 2899	56	34	26	3050 TO 3309	52	34	34
1560 TO 1669	52	22	22	2270 TO 2469	52	18	—	2530 TO 2759	52	26	18	2900 TO 3169	52	30	22	3310 TO 3599	48	30	30
1670 TO 1789	48	18	18	2470 TO 2659	48	14	—	2760 TO 2989	48	22	14	3170 TO 3439	48	26	18	3600 TO 3899	44	26	26
1790 TO 1899	44	14	14	2660 TO 2849	44	10	—	2990 TO 3199	44	18	10	3440 TO 3709	44	22	14	3900 TO 4179	40	22	22
1900 TO 2009	40	10	10	2850 TO 3039	40	6	—	3200 TO 3429	40	14	6	3710 TO 3969	40	18	10	4180 TO 4469	36	18	18
2010 TO 2129	36	6	6	3040 TO 3200	36	2	—	3430 TO 3649	36	10	2	3970 TO 4239	36	14	6	4470 TO 4749	32	14	14
2130 TO 2200	32	2	2					3650 TO 3869	32	6	—	4240 TO 4509	32	10	2	4750 TO 5039	28	10	10
								3870 TO 4000	28	2	—	4510 TO 4779	28	6	—	5040 TO 5319	24	6	6
												4780 TO 4880	24	2	—	5320 TO 5600	20	2	2

Plated weights

A = 3500 kg GVW
B = 3490 kg GVW
C = 4600 kg GVW

D = 5600 kg GVW
E = 5000 kg GVW
F = 6600 kg GVW

G = 5990 kg GVW
H = 7500 kg GVW
J = 7490 kg GVW

Air/hydraulic system(RB75)

- System Split hydraulic system with air assistance meeting EEC regulations. See "Description"
- Actuation. Service — footbrake air hydraulic to all wheels. A load sensing valve controls rear brake application. Secondary — footbrake air hydraulic to unfailed half of system.
Parking — hand control valve by air release to spring brake actuator then via mechanical linkage to rear brakes only.
- Brake Assemblies Front and rear drum brakes are self-adjusting with manual override (de-adjust) facility.

Make	Front Lockheed	Rear Lockheed
Type	2LS	Duo Servo
Linings — make	MINTEX	MINTEX
— diameter	330,2 (13)	330,2 (13)
— width	101,6 (4)	139,7 (5.5)
— thickness	8,1 (0.32)	8.6 (0.34) 10,1 (0.39)
Wheel cylinders — No. per wheel	2	1
— diameter	31,75 (1.25)	28,57 (1.12)

All dimensions in millimetres (inches)

Master Cylinder

- Make Girling with integral fluid reservoir and fluid level indicator.
- Type T.V.C.V. (Tipping valve, centre valve)
- Diameter 44,5 (1.75)
- Stroke 50,8 (2.0)

Tandem Actuator

- Make Clayton Dewandre
- Type 525

Spring Brake

- Make Clayton Dewandre
- Type Pull Type
- Bore 159 (6.25)
- Stroke 50 (1.97)

Compressor

Make	Clayton Dewandre
Type	SC6
4.236 Engine	Air Cooled
6.247 Engine	Water Cooled

Air Reservoirs — Volume

Sensing	10 litres (605in ³)
Service	10 litres (605in ³)
Service	10 litres (605in ³)

Colour Coding Of Air Pipes

Blue	Split Service
Yellow	Split Service
Orange	Park Brake Circuit

Pressure Settings

	Bar	lbf.in. ²
Unloader valve cut-in	7.5	110
Unloader valve cut-out	9	130
Safety valve opens	10.7-11.4	155-165
Quadruple protection valve	6.2	90
Hand control valve	6.5-6.9	95-100
Buzzer operates	3.7-4.6	54-66
Park brake warning light	5.3-5.7	78-83
Stop light switch	5.3-5.7	78-83
Auto release valve operates	2.4	35
Auto release valve manual reset	2.7	40