



BUCHER PRODUCTS AVAILABLE FROM HYDRATEC

SERVICE PARTS LIST – LRV LRV 175–1/LRV 350–1/LRV 700–1

BUCHER PRODUCTS
AVAILABLE FROM STOCK
AND TO ORDER

BUCHER Service Parts List – LRV

LRV 175–1/LRV 350–1/LRV 700–1

1. Main control valve block

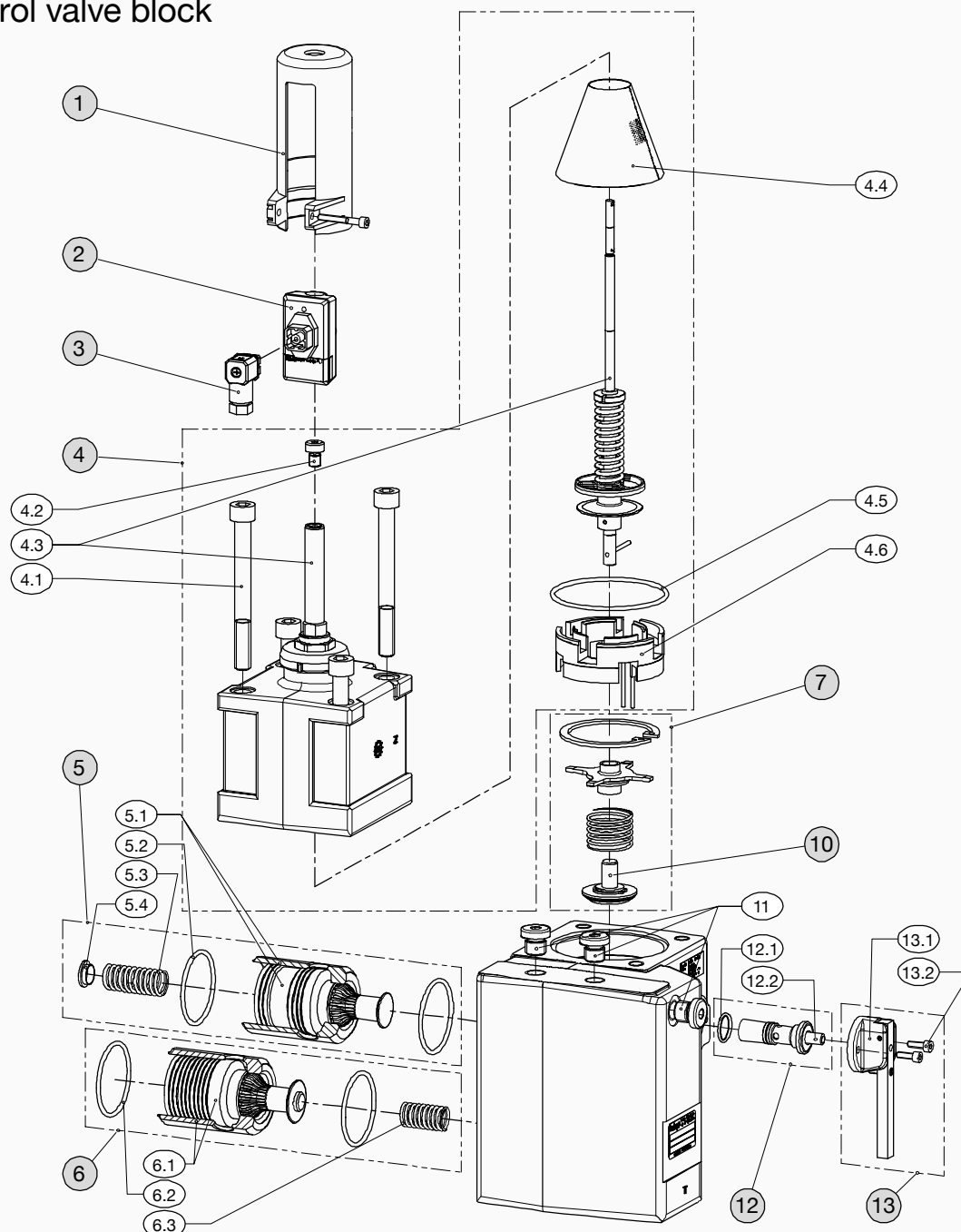


Fig. 1

300–5–10013845

Available as a standard service part

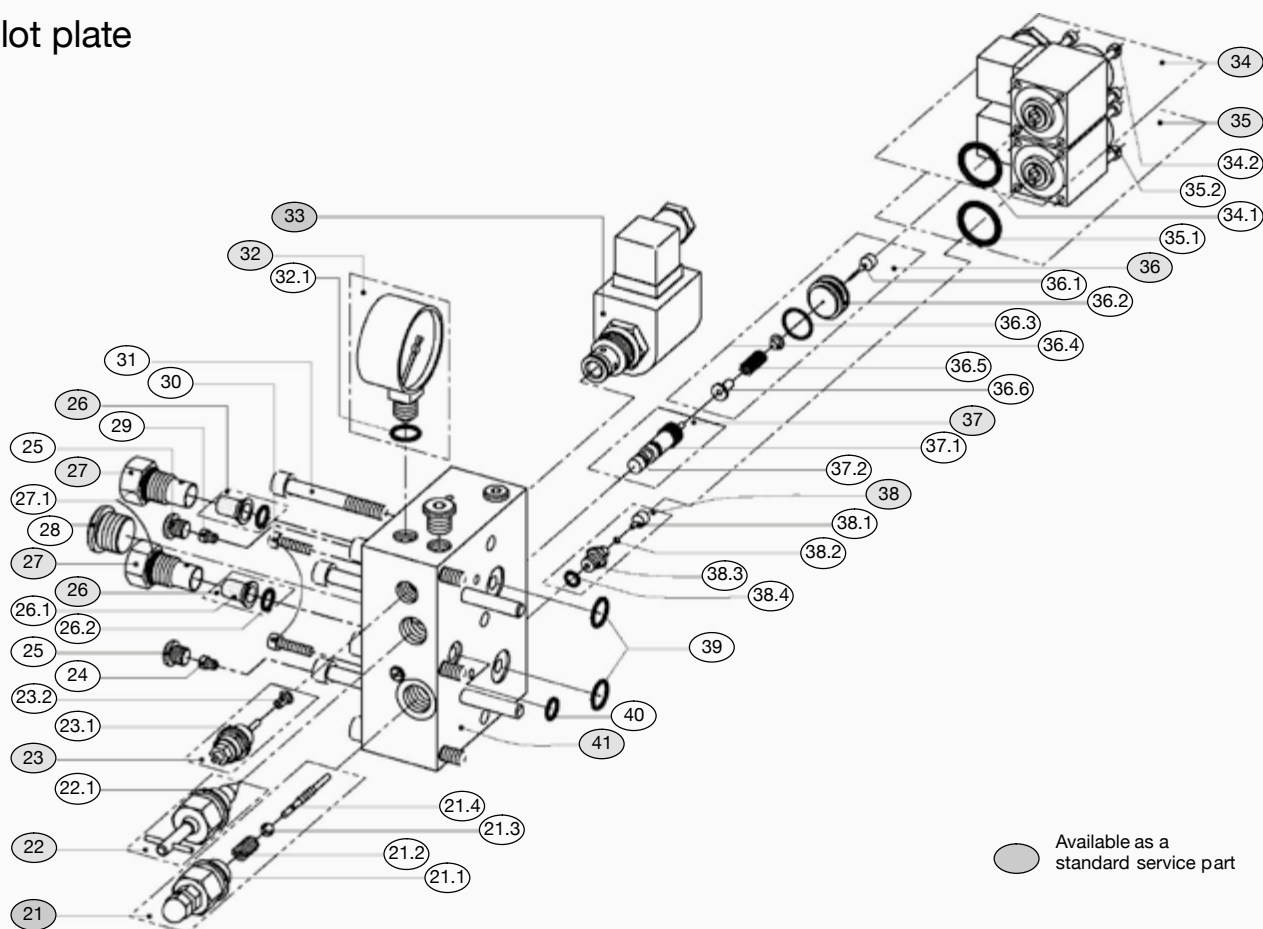
Reference: 300–P–9010121–E–07/11.06
Classification: 450.990.000 (450.60.10.01)

Item	Qty.	Description	Size	LRV 175-1	LRV 350-1	LRV 700-1
1	1	Slip-on protective cover		7010206	7010206	7010206
2	1	Feedback Hall-sensor, complete		7012009	7012009	7012009
3		Feedback cable with plug-in connectors				
3.3	1	Feedback cable 6 m	6 m	0009015	0009015	0009015
3.4	1	Feedback cable 9 m	9 m	0009016	0009016	0009016
3.5	1	Feedback cable 12 m	12 m	0009017	0009017	0009017
4	1	Valve top part, complete		0010796	0010797	0010798
4.1	4	Cap screw	M8 x 80	x		
4.1	4	Cap screw	M10 x 100		x	
4.1	4	Cap screw	M12 x 100			x
4.2	1	Plug screw	M8 x 1	x	x	x
4.3	1	Flow metering sensing rod with guide tube, complete		x	x	x
4.4	1	Strainer		x	x	x
4.5	1	O-ring	2.62 x 56.82	x		
4.5	1	O-ring	2.62 x 71.12		x	
4.5	1	O-ring	3.53 x 104.37			x
4.6	1	Flow ring 175-1	45 l	x		
4.6	1	Flow ring 175-1	90 l	x		
4.6	1	Flow ring 175-1	175 l	x		
4.6	1	Flow ring 175-1	250 l	x		
4.6	1	Flow ring 350-1	250 l		x	
4.6	1	Flow ring 350-1	350 l		x	
4.6	1	Flow ring 350-1	500 l		x	
4.6	1	Flow ring 700-1	700 l			x
4.6	1	Flow ring 700-1	1000 l			x
5		DOWN cartridge, complete				
	1	DOWN cartridge, complete	91 l	7011147		
5.1	1	Sleeve and poppet 91 l		x		
5.2	2	O-ring	2.62 x 34.59	x		
5.3	1	Spring		x		
5.4	1	Spring plate		x		
	1	DOWN cartridge, complete	251 l	7011148		
5.1	1	Sleeve and poppet 251 l		x		
5.2	2	O-ring	2.62 x 34.59	x		
5.3	1	Spring		x		
5.4	1	Spring plate		x		
	1	DOWN cartridge, complete	501 l		7011149	
5.1	1	Sleeve and poppet 501 l			x	
5.2	2	O-ring	2.62 x 44.12		x	
5.3	1	Spring			x	
5.4	1	Spring plate			x	
	1	DOWN cartridge, complete	1001 l			7011150
5.1	1	Sleeve and poppet 1001 l				x
5.2	2	O-ring	2.62 x 63.17			x
5.3	1	Spring				x
5.4	1	Spring plate				x
6		UP cartridge, complete				
	1	UP cartridge, complete	91 l	7011151		

Reference: 300-P-9010121-E-07/11.06

Item	Qty.	Description	Size	LRV 175-1	LRV 350-1	LRV 700-1
6.1	1	Sleeve and poppet 91 l		x		
6.2	2	O-ring	2.62 x 34.59	x		
6.3	1	Spring		x		
	1	UP cartridge, complete	251 l	7011152		
6.1	1	Sleeve and poppet 251 l		x		
6.2	2	O-ring	2.62 x 34.59	x		
6.3	1	Spring		x		
	1	UP cartridge, complete	501 l		7011153	
6.1	1	Sleeve and poppet 501 l			x	
6.2	2	O-ring	2.62 x 44.12		x	
6.3	1	Spring			x	
	1	UP cartridge, complete	1001 l			7011155
6.1	1	Sleeve and poppet 1001 l				x
6.2	2	O-ring	2.62 x 63.17			x
6.3	1	Spring				x
7	1	Check valve, complete		0007128	0007129	0304512
10	1	Poppet		7010146	7010147	7010177
4.5	1	O-ring	2.62 x 56.82	x		
4.5	1	O-ring	2.62 x 71.12		x	
4.5	3	O-ring	3.53 x 104.37			x
11		Plug screw	G 1/4	x	x	x
12		Emergency lowering insert kit		7010142	7010142	7010142
12.1	1	O-ring	1.78 x 15.6	x	x	x
12.2	1	Emergency lowering element with pre-load, complete		x	x	x
13	1	Emergency lowering handle kit, complete		7010141	7010141	7010141
13.1	1	Emergency lowering handle, LRV, complete	1.78 x 15.6	x	x	x
13.2	2	Cap screw		x	x	x

2. Pilot plate



Item	Qty.	Description	Size	LRV 175-1	LRV 350-1	LRV 700-1
21		Pressure relief valve, complete		7010140	7010140	7010140
21.1	1	Dowty seal	18.0/24.7 x 1.5	x	x	x
21.2	1	Spring		x	x	x
21.3	1	Ball	∅ 7.0	x	x	x
21.4	1	Push-pin		x	x	x
22	1	Pressure gauge shut-off valve, complete		7010139	7010139	7010139
22.1		Dowty seal	18.0/24.7 x 1.5	x	x	x
23	1	Throttle for electrical emergency lowering		7010194	7010194	7010194
23.1	1	Dowty seal	14 x 18.7 x 1.5	x	x	x
23.2	1	Poppet		x	x	x
24		Damping jet – UP				
24	1	Jet S M5	∅ 0.45	x		
24	1	Jet S M5	∅ 0.60		x	
24	1	Jet S M5	∅ 1.50			x
25	2	Plug screw	G 1/8	x	x	x
26		Pilot filter, complete		7010158	7010158	7010158
26.1	2	Strainer/filter		x	x	x
26.2	2	O-ring	1.78 x 10.82	x	x	x
27	2	Filter screw		7010195	7010195	7010184

Reference: 300-P-9010121-E-07/11.06

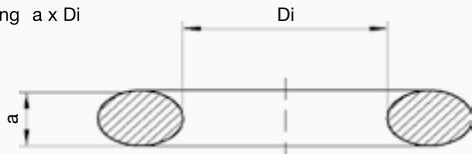
Item	Qty.	Description	Size	LRV 175-1	LRV 350-1	LRV 700-1
27.1	2	O-ring	2.62 x 13.94	x	x	x
28	1	Plug screw at test point (standard)	G 1/2	x	x	x
28	1	Test nipple, complete (option)		x	x	x
29		Damping jet – DOWN				
29	1	Jet S M5	∅ 0.50	x		
29	1	Jet S M5	∅ 0.70		x	
29	1	Jet S M5	∅ 1.50			x
30	2	Cap screw				
	2	Cap screw	M6 x 30	x		
	2	Cap screw	M6 x 35		x	
	2	Cap screw	M8 x 35			x
31	6	Cap screw				
	6	Cap screw	M8 x 60	x	x	
	6	Cap screw	M10 x 65			x
32	1	Pressure gauge, complete		7010138	7010138	7010138
32.1	2	Sealing ring	1/4"	x	x	x
33		Electrical emergency lowering valve				
33.1	1	Electrical emergency lowering valve, 12 VDC, 18 W	12 VDC	0003663	0003663	0003663
33.2	1	Electrical emergency lowering valve, 24 VDC, 18 W	24 VDC	0005663	0005663	0005663
34	1	DOWN solenoid, complete (black plug)		7010131	7010131	7010131
34.1	1	O-ring	2.62 x 21.89	x	x	x
34.2	4	Cap screw with 3 A/F hex. socket	M4 x 60	x	x	x
35	1	UP solenoid, complete (grey plug)		7010132	7010132	7010132
35.1	1	O-ring	2.62 x 21.89	x	x	x
35.2	4	Cap screw with 3 A/F hex. socket	M4 x 60	x	x	x
36	1	DOWN pilot valve, complete		7010143	7010143	7010148
36.1	1	Push-pin, LRV		x	x	x
36.2	1	Bush with seat		x	x	x
36.3	1	O-ring	1.78 x 15.60	x	x	x
36.4	1	Poppet		x	x	x
36.5	1	Spring		x	x	x
36.6	1	Spring centring guide		x	x	x
34.1	1	O-ring	2.62 x 21.89	x	x	x
37	1	Adjusting spindle, complete		0007532	0007532	0007675
37.1	1	O-ring	1.5 x 5.5	x	x	x
37.2	1	O-ring	1.5 x 4.5	x	x	x
34.1	1	O-ring	2.62 x 21.89	x	x	x
38	1	UP pilot valve, complete		7010144	7010144	7010145
38.1	1	Push-pin		x	x	x
38.2	1	Ball	∅ 3.0	x	x	x
38.3	1	Ball guide	∅ 3.0	x	x	x
38.4	1	O-ring	1.78 x 6.07	x	x	x
35.1	1	O-ring	2.62 x 21.89	x	x	x
39	2	O-ring	1.78 x 15.60	x	x	x
40	1	O-ring	1.78 x 10.82	x	x	x
41		Pilot plate				
		Pilot plate, complete	EN 00	0305273	0305276	0305279

Item	Qty.	Description	Size	LRV 175-1	LRV 350-1	LRV 700-1
41.0	1	Plate, complete, without electrical emergency lowering	EN 12 VDC	x	x	x
5.2	2	O-rings for main cartridge		x	x	x
		Pilot plate, complete		0305274	0305277	0305280
41.0	1	Plate, complete, with electrical emergency lowering	EN 24 VDC	x	x	x
5.2	2	O-rings for main cartridge		x	x	x
		Pilot plate, complete		0305275	0305278	0305281
41.0	1	Plate, complete, with electrical emergency lowering		x	x	x
5.2	2	O-rings for main cartridge		x	x	x

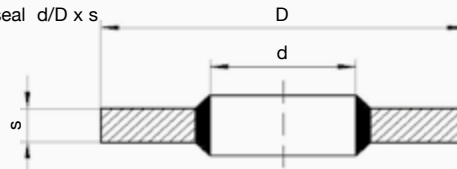
Reference: 300-P-9010121-E-07/11.06

3. Seal kits

O-ring a x Di



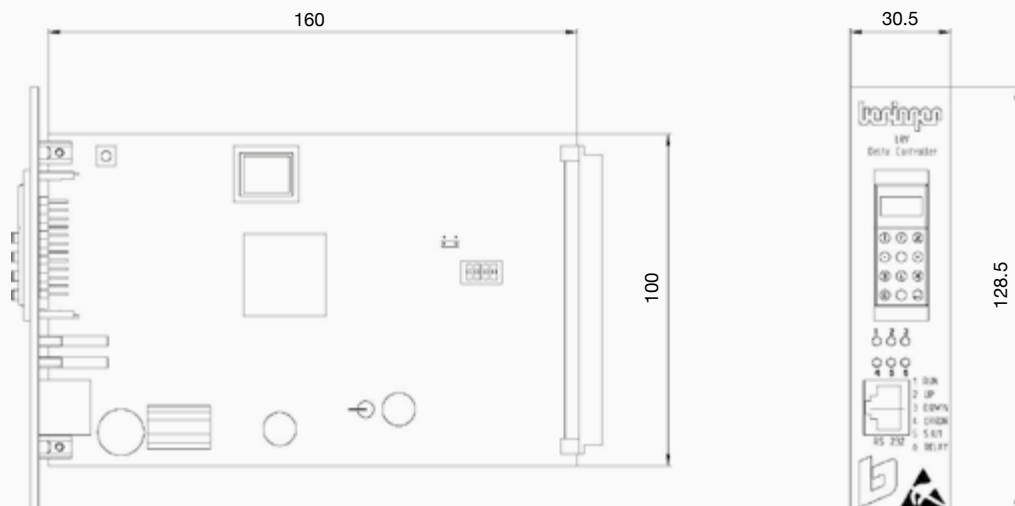
Dowty seal d/D x s



Item	Qty.	Description	Size	LRV 175–1	LRV 350–1	LRV 700–1
		Complete seal kit for main valve block and pilot plate		0305197	0305198	0305199
		Seal kit for main valve block		7010197	7010198	7010199
4.5	1	O–ring	2.62 x 56.82	x		
4.5	1	O–ring	2.62 x 71.12		x	
4.5	1	O–ring	3.53 x 104.37			x
5.2	2	O–ring	2 x 36	x		
5.2	2	O–ring	2.62 x 34.59	x		
5.2	2	O–ring	2 x 46		x	
5.2	2	O–ring	2.62 x 44.12		x	
5.2	2	O–ring	2.62 x 63.17			x
6.2	2	O–ring	2 x 36	x		
6.2	2	O–ring	2.62 x 34.59	x		
6.2	2	O–ring	2 x 46		x	
6.2	2	O–ring	2.62 x 44.12		x	
6.2	2	O–ring	2.62 x 63.17			x
12.1	1	O–ring	1.78 x 15.60	x	x	x
		Seal kit for pilot plate		7010200	7010200	7010200
21.1	1	Dowty seal	18.0/24.7 x 1.5	x	x	x
22.1	1	Dowty seal	18.0/24.7 x 1.5	x	x	x
23.1	1	Dowty seal	14.0/18.7 x 1.5	x	x	x
26.2	2	O–ring	1.78 x 10.82	x	x	x
27.1	2	O–ring	2.62 x 13.94	x	x	x
28.2	1	Dowty seal	22.7/30 x 2	x	x	x
32.1	2	Sealing ring	1/4"	x	x	x
33.2		O–ring				
33.3		O–ring				
33.4		Backup ring				
34.1	1	O–ring	2.62 x 21.89	x	x	x
35.1	1	O–ring	2.62 x 21.89	x	x	x
36.3	1	O–ring	1.78 x 15.60	x	x	x
37.1	1	O–ring	1.5 x 5.5	x	x	x
38.2	1	O–ring	1.5 x 4.5	x	x	x
38.4	1	O–ring	1.78 x 6.07	x	x	x
39.0	2	O–ring	1.78 x 15.60	x	x	x
40.0	1	O–ring	1.78 x 10.82	x	x	x

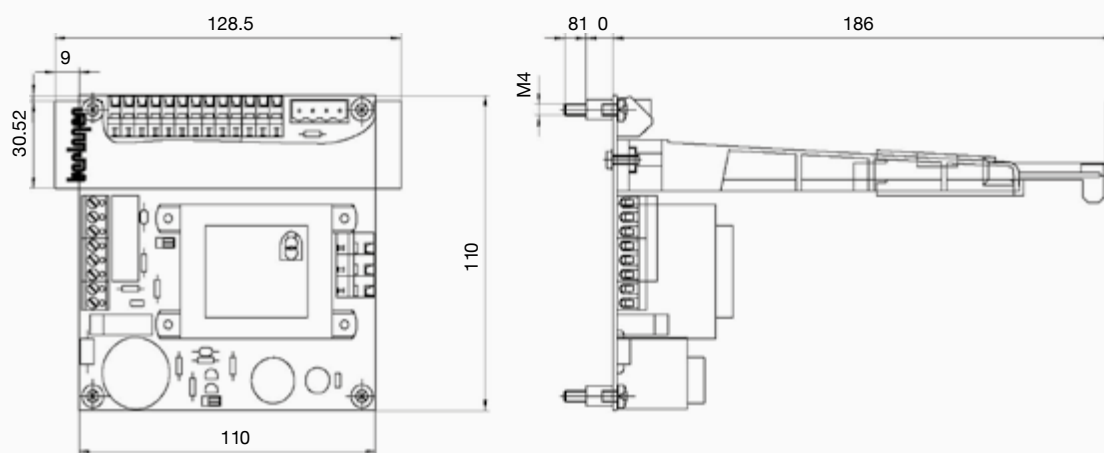
Reference: 300-P-9010121-E-07/11.06

4. Electronic card



Qty.	Description	Type	LRV 175-1	LRV 350-1	LRV 700-1
1	DELCON (Delta Controller) SIU-1	without protective lacquer	7010590 +	7010590 +	7010590 +

5 Power supply module



Qty.	Description	Type	LRV 175-1	LRV 350-1	LRV 700-1
1	Power supply module NTA-2		same p/s module for all valve sizes		
1	Power supply module NTA-2	100/115/120 VAC	7013534	7013534	7013534
1	Power supply module NTA-2	220/230/240 VAC	7013535	7013535	7013535
1	Power supply module NTA-2	400/415/440 VAC	7013536	7013536	7013536

Reference: 300-P-9010121-E-07/11.06



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