



## 6.2 GP3 Refrigerated Spare Parts

**Sorvall:**

Legend XTR,  
ST 40R

**Thermo Scientific:**

SL40R,  
Multifuge X3R  
Megafuge 40R



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**Refrigerated Units:** Multifuge X3 – series / Megafuge 40 – series / Legend XT – series / ST40 – series / SL40 - series

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# Centrifuges Overview

- Sorvall ST 40R
- Thermo Scientific SL40R
- Thermo Scientific Megafuge 40R
- Sorvall Legend XTR
- Thermo Scientific Multifuge X3R



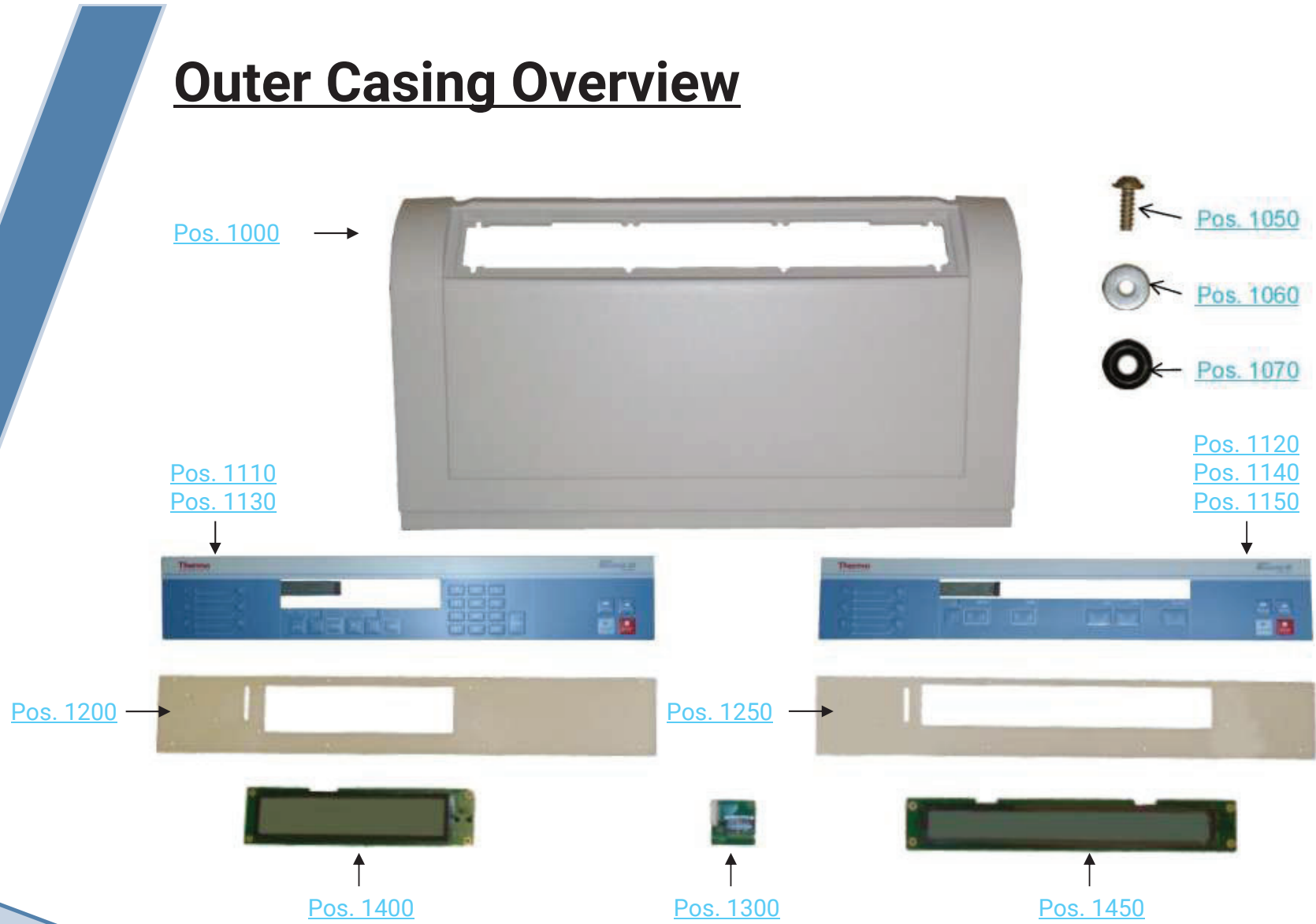
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# Outer Casing Overview



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# Spare Parts Outer Housing

Pos.	Part Nr.:	Description:	Multi X3R	Mega 40R	Legend XTR	ST 40R	SL 40R	Required Tools	Additional Recommended Tools
1000	70902035	Front Panel	X	X	X	X	X	4mm Allen	
1050	20480320	Thermoplast screw	X	X	X	X	X	4mm Allen, Torx 30	
1060	20480317	Washer	X	X	X	X	X		
1070	20290706	O-Ring	X	X	X	X	X		
1110	20058565	Keypad Overlay Multifuge X3R	X					4mm Allen	
1120	20058566	Keypad Overlay Megafuge 40R		X					
1130	20058567	Keypad Overlay Legend XTR			X				
1140	20058568	Keypad Overlay ST 40R				X			
1150	20058569	Keypad Overlay SL 40R					X		
1200	20058539	Display frame high end	X		X			4mm Allen, Torx 15	
1250	20058538	Display frame routine		X		X	X		
1300	20150266	Keypad adaptor	X	X	X	X	X	4mm Allen, Torx 15	
1400	20150281	Display 16+24 high end	X		X			4mm Allen, Torx 15	
1450	20150282	Display 26x1 routine		X		X	X		
Not shown	70904655	Rear panel	X	X	X	X	X	4mm Allen, 7mm socket wrench	

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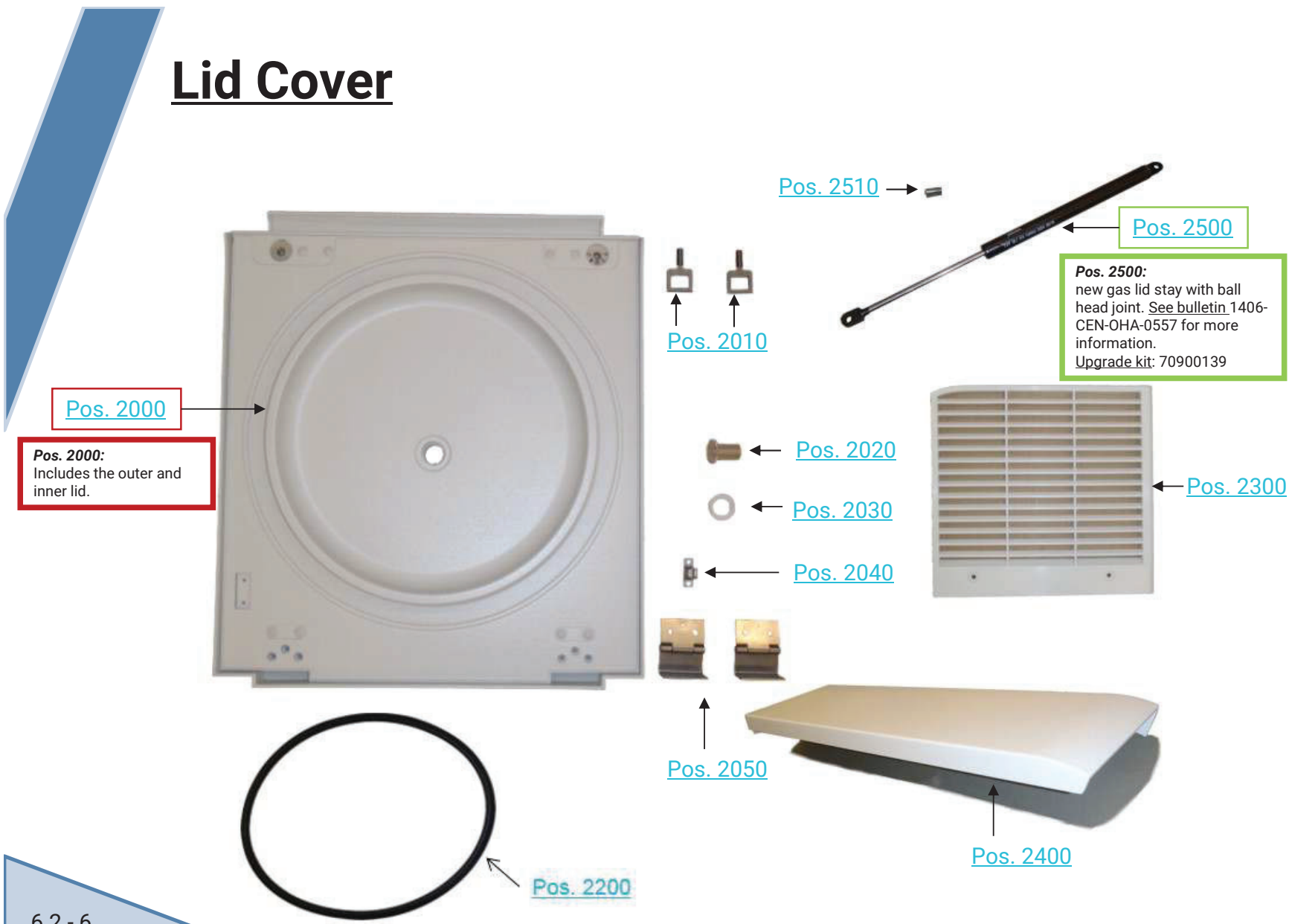
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# Lid Cover



**Pos. 2500:**  
new gas lid stay with ball head joint. See bulletin 1406-CEN-OHA-0557 for more information.  
Upgrade kit: 70900139

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# Spare Parts Lid Cover

Pos.	Part Nr.:	Description:	Multi X3R	Mega 40R	Legend XTR	ST 40R	SL 40R	Required Tools	Additional Recommended Tools
2000	20900505	Lid	X	X	X	X	X	4mm Allen	
2010	20058480	Lid Hook	X	X	X	X	X	17mm jaw wrench, pipe wrench	
2020	20056732	Window upper part	X	X	X	X	X	32mm jaw wrench	
2030	20056625	Window lower part	X	X	X	X	X	32mm jaw wrench	
2040	20023748	Mounting bracket	X	X	X	X	X	4mm Allen	striker pin, hammer, pipe wrench
2050	20058500	Hinge	X	X	X	X	X	4mm Allen, 8mm socket wrench	striker pin, hammer, pipe wrench
2200	50155827	Gasket (use for < SN 42327602)	X	X	X	X	X	4mm Allen, 8mm socket wrench	striker pin, hammer, pipe wrench
	20058545	Gasket	X	X	X	X	X		
2300	20058516	Air grille	X	X	X	X	X	4mm Allen	
2400	70902036	Cover Refrigeration System	X	X	X	X	X	4mm Allen	
2500	50144266	Gas lid stay (ball head joint)	X	X	X	X	X	striker pin, hammer, pipe wrench	
2510	20490287	Grooved pin	X	X	X	X	X	striker pin, hammer	

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# Electronics

Pos. 3000



Pos. 3700

Pos. 3110

Pos. 3120

Pos. 3130

Pos. 3250



**Pos. 3250:**  
 Ferrite core after serial no. 41020953.  
 Before this serial no. use ferrite core kit 70900131. See bulletin no. 0110-CEN-OHA-0412

Pos. 3500



Pos. 3400



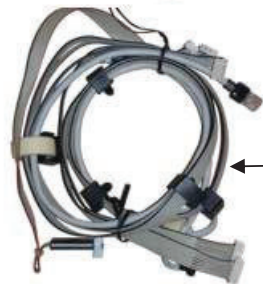
Pos. 3610



Pos. 3620



Pos. 3600



**Pos. 3000:**  
 Includes all parts of the electronic cassette 3110, 3120 and 3130, but not 3700!

**Pos. 3200:**  
 Installation of motor grounding after serial no. 41655083.  
 Before this serial no. use motor grounding kit 50144139  
 See bulletin no. 1406-CEN-OHA-0558.

Pos. 3140

Pos. 3200



Pos. 3300



**Always use the dedicated power cable.**

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# Spare Parts Electronics I

Pos.	Part Nr.:	Description:	230V	120 V	230V 60Hz	100 V	Required Tools	Additional Recommended Tools
3000	20150331	Main PCB General Purpose 120V air,ref.		X			8mm socket wrench	4mm Allen
3000	20150269	Main PCB General Purpose 230V ref.	X		X			
3000	20150284	Main PCB General Purpose 100V air, ref.				X		
3110	20210443	Fan	X	X	X	X		
3120	20180732	Panel Plug 120V 10A		X			Replace main PCB	
3120	20180748	Panel Plug 230V 16A	X		X			
3130	20180747	Overcurrent switch	X	X	X	X		
3140	20058590	Grounding bar	X	X	X	X	8mm socket wrench	4mm Allen
3200	20210429	Motor GP	X	X	X	X	13mm socket wrench	AutoLock Tool Kit, 4mm Allen
3250	20170355	Ferrite core	X	X	X	X	3mm Allen	
3300	70902026	Autolock Assy SH65y	X	X	X	X	AutoLock Tool kit	
Not shown	50114901	O-ring AutoLock (green)	X	X	X	X		

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# Spare Parts Electronics II

Pos.	Part Nr.:	Description:	230V	120V	230V 60Hz	100V	Required Tools	Additional Recommended Tools
3400	20150270	PCB speed imbalance rotor	X	X	X	X	4mm Allen	8mm socket wrench
	50157507	Kit Sensor cap motor cover GP	X	X	X	X		
3500	70902692	Lid Latch	X	X	X	X	4mm Allen	
3600	50116519	Cable package refrigerated	X	X	X	X	Small screwdriver	4mm Allen
3610	20190363	Line in cord 120V		X				
3620	20190264	Line in cord 230V	X		X			
Not shown	20190349	Line in cord 100V				X		
Not shown	20190270	Line in cord only for 75004523 / 75004541			X			

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# Spare Parts NV-RAM

Pos.	Part Nr.:	Description:	Catalog Number:	230V	120V	230V 60Hz	100V	Required Tools	Additional Recommended Tools
3700	70904641	Thermo Scientific Multifuge X3R	75004515	X				Chip removal tool or small screwdriver	4mm Allen
	70904641	Sorvall Legend XTR	75004520	X					
	70904637	Thermo Scientific Megafuge 40R	75004518	X					
	70904637	Sorvall ST 40R	75004524	X					
	70904637	Thermo Scientific SL 40R	75004527	X					
	70904640	Thermo Scientific Multifuge X3R	75004516		X				
	70904640	Sorvall Legend XTR	75004521		X				
	70904636	Thermo Scientific Megafuge 40R	75004519		X				
	70904636	Sorvall ST 40R	75004525		X				
	70904636	Thermo Scientific SL 40R	75004528		X				
	70904653	Sorvall Legend XTR	75004523			X			
	70904649	Sorvall ST 40R	75004526				X		
	70904651	Sorvall Legend XTR	75004522				X		

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# Service Kits



Pos. 4000

**Pos. 4000:**  
Without gas lid stay. Please order separately, refer to [bulletin](#) 1406-CEN-OHA-0654 for more information.  
New gas lid stay: 50144266, Upgrade kit: 70900139



Pos. 4100

**Pos. 4100:**  
Refer to bulletin 1808-CEN-OHA-0653.



Pos. 4500

**Pos. 4500:**  
With instruction number 50119249.  
Tool kit includes parts that make it easier to:

- Remove the AutoLock
- Check function of the AutoLock
- Do a rotor emergency release
- Change anti-vibration mounts

Pos.	Part Nr.:	Description:	Multi X3R	Mega 40R	Legend XTR	ST 40R	SL 40R	Required Tools	Additional Recommended Tools
4000	70904694	Service Kit anti - vibration mounts	X	X	X	X	X	13mm socket wrench / jaw wrench	4mm Allen
4100	50157507	Sensor Cap Motor Cover Kit GP	<b>230V / 230V 60Hz / 120V / 100V</b>						
4500	70904693	Tool Kit AutoLock	X	X	X	X	X		

# Cooling System 100V / 120V (no changes due to f-gas)



# Spare Parts Cooling System 100V / 120V

Pos.	Part Nr.:	Description:	120V	100V	Required Tools	Additional Recommended Tools
5000	20240668	Compressor	X	X	4mm Allen, Philips 2	
5010	20240577	Liquid collector	X	X	4mm Allen	
5020	50116522	Over pressure switch Bench top	X	X	4mm Allen	Small side cutter
5030	20058481	Condenser	X	X	4mm Allen, 8mm socket wrench	
5040	20240672	Expansion valve	X	X	4mm Allen	Small side cutter
5100	20210436	Fan 120V	X	X	4mm Allen	Small side cutter
5200	50116267	Temperature sensor	X	X	4mm Allen	
5300	20058545	Gasket	X	X	4mm Allen, 8mm socket wrench	striker pin, hammer, pipe wrench

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# Cooling System 230V (refer to serial number cut)



# Spare Parts Cooling System 230V

Pos.	Part Nr.:	Description:	230V	230V 60Hz
<b>Units produced with &amp; prior serial number "42599362" used refrigerant R404a.</b>				
5000	20240645	Compressor	X	X
5010	20240577	Liquid dryer	X	X
5020	50115139	Over pressure switch Bench top	X	X
5030	20058481	Condenser	X	X
5040	20240671	Expansion valve	X	X
5100	20210437	Fan 230V	X	X
5200	50116267	Temperature sensor	X	X
5300	20058545	Gasket	X	X
<b>Units produced with &amp; above serial number "42599363" are using refrigerant R134a due to f-gas regulations.</b>				
5000	20240675	Compressor	X	X
5010	20240577	Dryer	X	X
5020	50116522	Over pressure switch Bench top	X	X
5030	20058481	Condenser	X	X
5040	20240672	Expansion valve	X	X
5100	20210437	Fan 230V	X	X
5200	50116267	Temperature sensor	X	X
5300	20058545	Gasket	X	X



Take care which refrigeration system is inside and take this and the serial number cut as basis to order new spare parts.  
 An **old** system needs also **old** spare parts but **recycled refrigerant** which is written down on the nameplate.  
 A **new** system needs **new** spare parts and **refrigerant** which is written down on the nameplate.

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