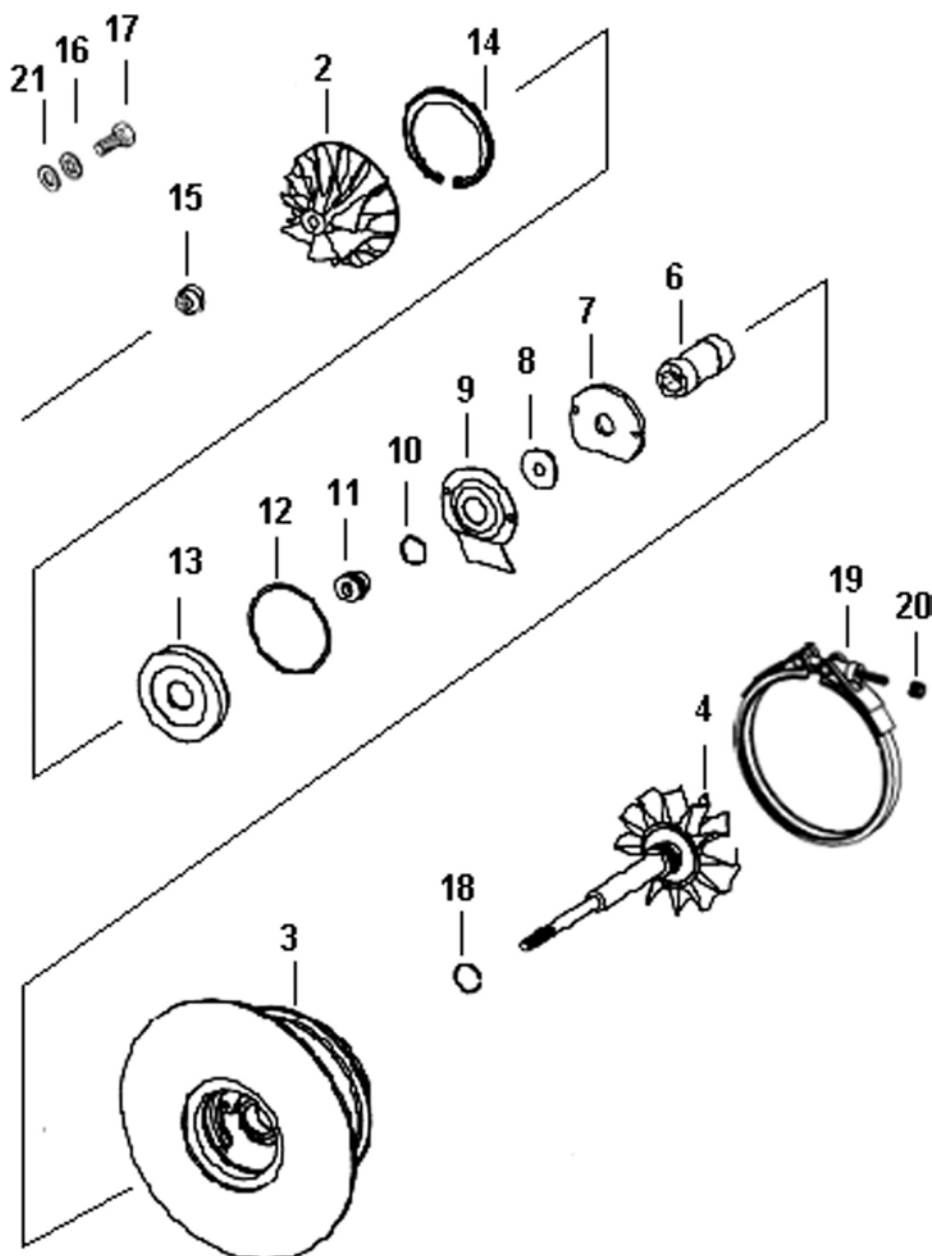


Holset / Schwitzer / KKK 3L Type Turbos

Common Service Parts
Oversize Service Parts
Major Replacement Parts
(Shaft & Wheels, Compressor Wheels etc)
Core Assemblies
Turbine Housings

Holset / Schwitzer / KKK 3L Type

Common Service Parts



This illustration is a guide and does not necessarily show all parts accurately

Holset / Schwitzer / KKK 3L Type

Repair Parts & Service Kits

All parts are available for purchase as individual components or in the following popular Repair Kits

	Part Description	MELETT Number	Qty Per Turbo	Repair Kit Smooth bore 1150-403-750	Repair Kit Step bore 1150-403-751	Repair Kit Step/Smooth 1150-403-752	Repair Kit Step/Smooth 1150-403-754	Repair Kit KKK Models 1300-403-751
6	Bearing (Standard)	1150-403-100	1	1	1	1	1	1
6	Bearing (Ford)	See note 1	1					
	Thrust Washer (Ford)	See note 1	1					
7	Thrust Bearing	1250-403-320	1	1	1	1	1	1
8	Thrust Ring	1250-403-240	1	1	1	1	1	
9	Oil Deflector	1250-403-310	1					
10	Piston Ring (Comp)	1150-400-170	1	1	1	1	1	1
11	Flinger	1250-403-200	1					
12	O' Ring	1250-030-150	1	1	1	1	1	1
13	Insert	1250-403-300	1					
14	Insert Retaining Ring	1250-403-140	1	1	1	1	1	
15	Shaft Nut	1250-403-351	1	1	1	1	1	1
16	Washer	1150-403-630	8					
17	Bolt UNC	1250-403-561	8					8
17	Bolt Metric	1250-403-562	8					
	Clamp Plate	1301-027-500	4					
18	Piston Ring (turb) 0.875" (Smooth)	1150-400-170	2	2		2		2
18	Piston Ring (turb) 0.885" (Step)	1150-400-160	1		1	1	1	2
19	"V" Clamp	1250-403-645	1					
20	Nut	1100-120-645	1				1	
21	Spring Washer	1301-027-580	8				8	8
	Gasket, Turbine inlet	1900-000-006	1	Gaskets are available for sale separately if required				
	Gasket, Oil outlet	1900-000-026	1					
	Gasket, Oil inlet	1900-000-036	1					

Note: The combined Ford bearing Holset No. 51625 and thrust washer Holset No. 51624 can be replaced by the Melett bearing **1150-403-100**.

Oversize Repair Parts Available

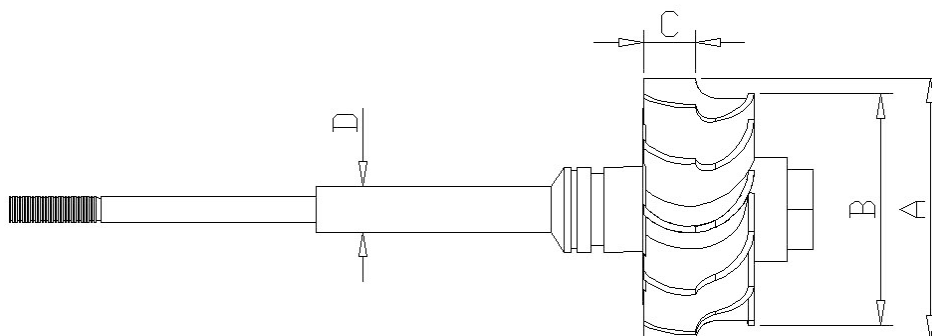
Journal Bearings		
Oversize's Available		Part Number
OD +.010"	ID -.010"	1150-403-120
OD +.010"	ID Std	1150-403-124
OD Std.	ID -.010"	1150-403-127

Piston Rings			
Oversizes Available – Turbine & Comp End			
Description	OD	Width	Part Number
Smooth bore ring	+10	Std	1150-403-180
Step bore ring	+10	Std	1150-403-181

Holset / Schwitzer / KKK 3L Type

Major Replacement Parts - Detail

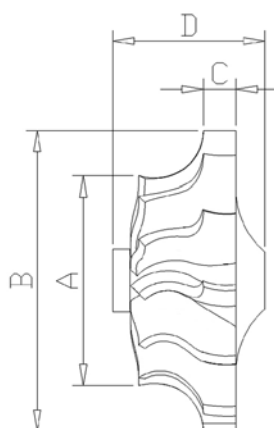
Shaft & Wheel



Melett Part No.	To replace	(A) Inducer Ø mm's	(B) Exducer Ø mm's	(C) Tip width mm's	D (Shaft OD)
1250-403-435	Schwitzer 156689	61.2	75.6	9.4	12.200 -12.192
1250-403-435	Schwitzer 192934	61.2	75.6	9.4	12.200 -12.192
1250-403-435	Holset 55791	61.2	75.6	9.4	12.200 -12.192

Dimension for shaft diameter 'D' are minimum – maximum allowable limits for use with the standard journal bearing. Melett's fully qualified Engineers are available to answer any technical enquiry regarding limits, tolerances, and turbo set-up configurations. Email: Engineer@melett.com

Compressor Wheel



Melett Part No.	To replace	Trim	(A) Inducer Ø mm's	(B) Exducer Ø mm's	(C) Tip width mm's	(D) Total Hub Length	No. of Blades
1250-403-425	Holset 51220	3LD-9	52.07	82.55	5.38	28.58	12
1250-403-425	Schwitzer 146595	3LD-9	52.07	82.55	5.38	28.58	12
1250-403-426	Holset 51217	3LD-1	54.61	82.55	5.72	28.58	12
1250-403-426	Schwitzer 146594	3LD-1	54.61	82.55	5.72	28.58	12

Holset / Schwitzer / KKK 3L Type

Major Replacement Parts – ‘Where Used’

OEM Turbo Part No.	MELETT Repair Kit	MELETT CHRA	MELETT Shaft & Wheel	MELETT Bearing Hsg	MELETT Comp Wheel	MELETT Comp Cover
Holset 3L						
50807	1150-403-752	N/A	1250-403-435	N/A	N/A	N/A
50907	1150-403-752	N/A	1250-403-435	N/A	1250-403-426	1250-403-802
50908	1150-403-752	N/A	1250-403-435	N/A	N/A	N/A
50916	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
50919	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	N/A
50928	1150-403-752	N/A	1250-403-435	N/A	N/A	N/A
53158	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-861
53297	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53325	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53358	1150-403-752	N/A	1250-403-435	N/A	N/A	N/A
53361	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1150-403-800
53368	1150-403-752	N/A	1250-403-435	N/A	1250-403-426	1250-403-802
53371	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53468	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53485	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53497	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53558	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	N/A
53561	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53569	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
53580	1150-403-752	N/A	See note	N/A	N/A	N/A
53581	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
53614	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
53689	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	N/A
53758	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
53759	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1150-403-800
53872	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
53878	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
53889	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
53894	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
53899	1150-403-752	N/A	See note	N/A	1250-403-425	1250-403-800
53903	1150-403-752	N/A	See note	N/A	1250-403-426	1250-403-802
53910	1150-403-752	1150-403-700	See note	N/A	1250-403-425	1250-403-800
53925	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
53930	1150-403-752	N/A	N/A	1150-403-450	N/A	N/A
53991	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
53997	1150-403-752	N/A	See note	1150-403-452	1250-403-426	1250-403-802
54006	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54012	1150-403-752	N/A	See note	1150-403-452	N/A	N/A

Note: It is possible to use **1250-403-435** Step bore shaft and wheel with **1150-403-450/2** smooth bore bearing housing to repair these turbochargers where necessary but the turbo will have reduced oil sealing capacity due to only 1 piston ring.

Holset / Schwitzer / KKK 3L Type

Major Replacement Parts – ‘Where Used’

OEM Turbo	MELETT	MELETT	MELETT	MELETT	MELETT	MELETT
Part No.	Repair Kit	CHRA	Shaft & Wheel	Bearing Hsg	Comp Wheel	Comp Cover
Holset 3L						
54034	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54035	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54049	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54063	1150-403-752	N/A	See note	N/A	N/A	N/A
54089	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
54097	1150-403-752	N/A	1250-403-435	N/A	1250-403-425	N/A
54144	1150-403-752	N/A	See note	N/A	1250-403-426	1250-403-802
54148	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
54151	N/A	N/A	N/A	N/A	1250-403-425	1250-403-800
54376	N/A	N/A	N/A	N/A	1250-403-426	1250-403-802
54398	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54400	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
54484	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	N/A
54487	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
54639	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
54674	1150-403-752	N/A	1250-403-435	N/A	1250-403-425	N/A
54724	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
54757	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
54758	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
54759	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
54762	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
54777	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
54791	1150-403-752	N/A	See note	N/A	N/A	N/A
54832	1150-403-752	1150-403-701	See note	1150-403-450	1250-403-426	1250-403-802
54929	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
54930	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
55041	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
55155	1150-403-752	N/A	See note	N/A	1250-403-426	1250-403-802
55216	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
55299	N/A	N/A	N/A	N/A	1250-403-426	1250-403-802
55325	1150-403-752	1250-403-700	See note	1150-403-450	1250-403-425	N/A
55435	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
55436	1150-403-752	N/A	See note	1150-403-450	N/A	N/A
55498	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
55562	1150-403-752	N/A	1250-403-435	N/A	N/A	N/A
3500609	1150-403-752	N/A	See note	1150-403-452	N/A	N/A
3500875	1150-403-752	N/A	See note	N/A	1250-403-426	1250-403-802
3501596	1150-403-752	N/A	See note	1150-403-450	N/A	N/A

Note: It is possible to use **1250-403-435** Step bore shaft and wheel with **1150-403-450/2** smooth bore bearing housing to repair these turbochargers where necessary but the turbo will have reduced oil sealing capacity due to only 1 piston ring.

Holset / Schwitzer / KKK 3L Type

Major Replacement Parts – ‘Where Used’

OEM Turbo	MELETT	MELETT	MELETT	MELETT	MELETT	MELETT
Part No.	Repair Kit	CHRA	Shaft & Wheel	Bearing Hsg	Comp Wheel	Comp Cover
Holset 3L						
3502010	1150-403-752	N/A	See note	1150-403-452	1250-403-425	1250-403-800
3502596	1150-403-752	1250-403-700	1250-403-435	1250-403-450	1250-403-425	1250-403-800
3528330	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
3545463	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
3545541	1150-403-752	1150-403-700	See note	1150-403-450	1250-403-425	1250-403-800
Schwitzer 3L						
146718	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
146982	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-803
149018	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-803
149242	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-803
150529	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
150627	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
151197	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
151734	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	N/A
154763	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
155249	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-803
155453	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
155652	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
155653	1150-403-752	N/A	N/A	1250-403-450	N/A	N/A
156836	1150-403-752	N/A	N/A	N/A	N/A	N/A
156837	1150-403-752	N/A	N/A	N/A	N/A	N/A
157253	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
157440	N/A	N/A	1250-403-435	N/A	N/A	N/A
157441	1150-403-752	N/A	N/A	1250-403-450	N/A	N/A
180316	N/A	N/A	1250-403-435	N/A	N/A	N/A
181237	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
181273	1150-403-752	1250-403-701	1250-403-435	1250-403-450	1250-403-426	1250-403-803
181801	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
183510	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
184208	N/A	N/A	N/A	N/A	N/A	N/A
184209	N/A	N/A	1250-403-435	N/A	N/A	N/A
185228	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
186727	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A
186833	N/A	N/A	1250-403-435	N/A	N/A	N/A
196062	1150-403-752	N/A	1250-403-435	1250-403-450	N/A	N/A

Note: It is possible to use **1250-403-435** Step bore shaft and wheel with **1150-403-450/2** smooth bore bearing housing to repair these turbochargers where necessary but the turbo will have reduced oil sealing capacity due to only 1 piston ring.

Holset / Schwitzer / KKK 3L Type

Major Replacement Parts – ‘Where Used’

OEM Turbo	MELETT	MELETT	MELETT	MELETT	MELETT	MELETT
Part No.	Repair Kit	CHRA	Shaft & Wheel	Bearing Hsg	Comp Wheel	Comp Cover
KKK 3L						
5222-988-1702	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-1788	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-2101	1300-403-751	N/A	See note	N/A	N/A	N/A
5222-988-2501	1300-403-751	N/A	See note	1150-403-452	1250-403-425	1250-403-800
5222-988-2576	1300-403-751	N/A	See note	1150-403-452	1250-403-425	1250-403-800
5222-988-2577	1300-403-751	N/A	See note	1150-403-452	1250-403-425	N/A
5222-988-2578	1300-403-751	N/A	See note	1150-403-452	1250-403-425	N/A
5222-988-2579	1300-403-751	N/A	See note	1150-403-452	1250-403-425	N/A
5222-988-2800	1300-403-751	N/A	See note	N/A	N/A	N/A
5222-988-2802	1300-403-751	N/A	See note	N/A	N/A	N/A
5222-988-3085	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3086	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3087	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3088	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3089	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3094	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3095	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3096	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3097	1300-403-751	N/A	See note	1150-403-452	N/A	N/A
5222-988-3100	1300-403-751	N/A	See note	N/A	N/A	N/A

Note: It is possible to use **1250-403-435** Step bore shaft and wheel with **1150-403-450/2** smooth bore bearing housing to repair these turbochargers where necessary but the turbo will have reduced oil sealing capacity due to only 1 piston ring.

3LD Type

Replacement Turbine Housings

Melett Part No.	To replace OE Hsg No.	Description	Entry Detail	To fit turbo No.
1250-403-860	Schwitzer 182598	Turbine housing 3LD – Metric	Twin	Various
1250-403-861	Holset 3520175	Turbine housing 3LD – Imperial	Twin	Various