



400 Series Turbo Application Chart

Beechcraft (Raytheon)

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastegate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
V35-STC	TSIO520D	406610-9025	632729-11	470818-9002	470818-2	481012-9002	481012-2	NONE	NONE
A,B36TC	TSIO520UB	406610-9029	632729-13	470908-9017	636188-17	481012-9006	642628-6	470944-9026	639319-26
A56TC	TIO541E1B4	406110-9007**	LW-13309	470864-9001	77551	481008-9008	LW-14297	470944-9007	LW-14445-2
A56TC	TIO541E1D4	407540-9003	LW-13310	470864-9001	77551	481008-9008	LW-14297	470944-9007	LW-14445-2
58P/58TC (76 - 78)	TSIO520L	409680-9001*	640327-1	470892-9002	635361-2	481008-9002	640655-2	470944-9009	639319-9
58P/58TC (79 & UP)	TSIO520WB	409680-9001*	640327-1	470892-9002	635361-2	481008-9022	640655-22	470944-9034	639319-34
60/A60 (69 - 72)	TIO541E1A4	406110-9006**	LW-11969	470864-9001	77551	481008-9008	LW-14297	470944-9007	LW-14445-2
B60 (73 & UP)	TIO541E1C4	407540-9003	LW-13310	470818-9005	LW-10759	481008-9008	LW-14297	470944-9007	LW-14445-2

*Includes bypass valve. To order turbocharger only, use 409680-9011.

** These Turbochargers are non-PMA'd (reference only)

Bell Helicopter

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastegate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
47G3B A Eng. ('61-62)	TVO435A1A	404460-9002	77692	470622-9000	73785	470620-9000	73784	NONE	NONE
47G3B1 B Eng. ('63-67)	TVO435B1A,B1B	404460-9002	77692	470622-9001	74422	470620-9001	74423-1	NONE	NONE
47G3B1 D Eng. ('63-67)	TVO435D1A,D1B	406610-9015	LW-13112	470818-9001	76649-2	470620-9002	74423-2	NONE	NONE
47G3B E Eng. ('61-62)	TVO435E1A	406610-9015	LW-13112	470622-9000	73785	470620-9000	73784	NONE	NONE
47G3B2 ('68-71)	TVO435G1A	406610-9015	LW-13112	470818-9001	76649-2	470620-9003	74423-3	NONE	NONE
47G3B2A ('72-73)	TVO435F1A	406610-9015	LW-13112	470818-9001	76649-2	470620-9003	74423-3	NONE	NONE

Cessna

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastegate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
T182	0540L3C5D	465292-9002****	C295001-0304	481044-9002	C165006-0502	----	----	470944-9020	C482002-0113
TR182	0540L3C5D	465292-9002****	C295001-0304	481044-9002	C165006-0502	----	----	470944-9020	C482002-0113
T188C	TSIO520T	465292-9004	642518-4	481032-9001	642660-1	----	----	470944-9024	639319-24
T206 A-C (66 - 68)	TSIO520C	406610-9005	C295001-0101	470908-9011	C165006-0105	470782-9003	C165004-0101	470930-9001	C482002-0101
T206 D-E (69 - 76)	TSIO520C	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9005	C165002-0101	470930-9001	C482002-0101
T206 G (77 & UP)	TSIO520M	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9007	C165004-0502	470944-9012	C482002-0108
T206	TIO-540-AJ1A	466881-9001	46P22250	470954-9005	LW-18661	481058-9005	48B22314	470944-9030	LW-14445-11
T207 (70 - 76)	TSIO520G	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9005	C165004-0501	470930-9004	C482002-0103
T207 (77 & UP)	TSIO520M	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9007	C165004-0502	470944-9012	C482002-0108

Cessna (Cont.)

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
P210 (78 - 81)	TSIO520P	465680-9004	C295001-0202	470908-9020	C165006-0114	470688-9008	C165004-0503	470944-9003	C482002-0107
P210 (82 & UP)	TSIO520AF	465680-9004	C295001-0202	470908-9020	C165006-0114	481058-9002	C165004-0702	470944-9012	C482002-0108
T210 F-H (66 - 68)	TSIO520C	406610-9005	C295001-0101	470908-9011	C165006-0105	470782-9003	C165004-0101	470930-9001	C482002-0101
T210 J-L (69 - 76)	TSIO520H	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9005	C165004-0501	470930-9001	C482002-0101
T210 M-N (77 - UP)	TSIO520R	406610-9005	C295001-0101	470908-9011	C165006-0105	470688-9007	C165004-0502	470944-9012	C482002-0108
T303	L/TSIO520AE	406610-9030	C295001-0501	470954-9003	C165006-0601	481058-9001	C165004-0701	470944-9020	C482002-0113
T310 P-Q (Up To 75)	TSIO520B	406610-9025	632729-11	(L)470780-9014 (R)470780-9013	5050154-14 5050154-13	470688-9005 470822-9001*	C165004-0501 C165004-0401	470930-9001	C482002-0101
T310 R (75 & UP)	TSIO520B	406610-9025	632729-11	(L)470780-9014 (R)470780-9013	5050154-14 5050154-13	470948-9001	C165002-0102	470930-9001	C482002-0101
T320 A-C (62 - 65)	TSIO470B,C,D	404350-9001	629844-1	470618-9000	0851598-2	470616-9000	0851597-2	NONE	NONE
T320 D-F (66 - 68)	TSIO520B	406610-9025	632729-11	(L)470780-9014 (R)470780-9013	5050154-14 5050154-13	470782-9003 470822-9001*	C165004-0101 C165004-0401	470930-9001	C482002-0101
335	TSIO520E	406610-9025	632729-11	(L)470780-9015 (R)470780-9016	5050154-15 5050154-16	470948-9001	C165002-0102	470930-9004	C482002-0103
T337 (67 - 71)	TSIO360A	406970-9001	C295001-0102	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	470838-9001 481012-9001*	C165004-0301 C165004-0203	470930-9002	C482002-0102
T337 (67)	TSIO360B	406970-9001	C295001-0102	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	470838-9001 481012-9001*	C165004-0301 C165004-0203	470930-9002	C482002-0102
T337 (73 - 77)	TSIO360C	(F)406610-9018 (R)406610-9022	C295001-0103 C295001-0108	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	481008-9017	C165004-0603	470944-9003	C482002-0107
P337 (78 - 80)	TSIO360C	(F)406610-9018 (R)406610-9022	C295001-0103 C295001-0108	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	481008-9017	C165004-0603	470944-9003	C482002-0107
T337 (78 - 80)	TSIO360H	465292-9001	C295001-0301	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	481012-9003	C165004-0202	470944-9019	C482002-0112
T337	TSIO360JB	465292-9005	C295001-0305	(F)470842-9003 (R)470842-9004	C165006-0303 C165006-0304	481012-9005	C165004-0204	470944-9003	C482002-0107
340 (73 - 75)	TSIO520K	407810-9001	635630	470908-9006	C165006-0104	470934-9001	C165002-0101	470930-9017	637583-17
340A (76 & UP)	TSIO520N/NB	407810-9001	635630	(L)470908-9012 (R)470908-9013	C165006-0106 C165006-0107	470836-9018	633388-10	470944-9015	C482002-0110
401/402 (67 - 68)	TSIO520E	406610-9025	632729-11	(L)470780-9015 (R)470780-9016	5050154-15 5050154-16	470782-9003 470822-9001*	C165004-0101 C165004-0401	470930-9004	C482002-0103
401A/402A (69)	TSIO520E	406610-9025	632729-11	(L)470780-9015 (R)470780-9016	5050154-15 5050154-16	470688-9005 470822-9001*	C165004-0501 C165004-0401	470930-9004	C482002-0103
401B/402B (70 - 78)	TSIO520E	406610-9025	632729-11	(L)470780-9015 (R)470780-9016	5050154-15 5050154-16	470948-9001	C165002-0102	470930-9004	C482002-0103
402C (79 & UP)	TSIO520VB	406610-9028	632729-12	470908-9013	C165006-0107	470836-9021	C165004-0604	470944-9015	C482002-0110
404 (77 & UP)	GTSIO520M	465930-9002	461672-1	470908-9015	C165006-0109	470836-9019	633388-11	470930-9005	C482002-0104
411/411A (65 - 68)	GTSIO520C	404360-9004	630374-4	(L)470780-9013 (R)470780-9014	5050154-13 5050154-14	470782-9003	C165004-0101	470822-9001***	NONE
414 (70 - 75)	TSIO520J	407810-9001	635630	(L)470908-9012 (R)470908-9013	C165006-0106 C165006-0107	470836-9001	633388-3	470930-9006	C482002-0105
414 (76 - 77)	TSIO520N/NB	407810-9001	635630	(L)470908-9012 (R)470908-9013	C165006-0106 C165006-0107	470836-9018	633388-10	470944-9015	C482002-0110
414A (78 & UP)	TSIO520N/NB	407810-9001	635630	(L)470908-9012 (R)470908-9013	C165006-0106 C165006-0107	470836-9020	642247	470944-9015	C482002-0110

Cessna (Cont.)

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
Riley 414 STC	IO720B	406610-9027	406610-9027	481036-9001 481038-9001	481036-9001 481038-9001	470906-9001	470906-9001	470944-9017	470944-9017
421/421A (68 - 69)	GTSIO520D	406990-9004	633274-4	(L)470830-9010 (R)470830-9020	C165006-0401 C165006-0402	470836-9003	633388-9	470930-9005	C482002-0104
421B (70 - 75)	GTSIO520H	408610-9001	373374-1	(L)470830-9010 (R)470830-9020	C165006-0401 C165006-0402	470836-9003	633388-9	470930-9005	C482002-0104
421C (76 & UP)	GTSIO520L/N	465930-9003	641672-3	481064-9001	C165006-0113	470836-9003	633388-9	481040-9001	C482002-0111

* This is a second controller, however, optional pressure relief valve 470930-9001 may be installed.

** This is a second controller, however, optional pressure relief valve 470930-9002 may be installed.

*** Second Controller.

**** These Turbochargers are non-PMA'd (reference only)

Commander

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
112TCA	TO360C1AGD	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	470944-9010	LW-14445-4
114TC	TIO540AG1A	466011-9002	46C19836	470954-9005	LW-18661	470844-9004 470886-9004	LW-10682 48B21935	470886-9004	

RAJAY - see 600 series Turbo Charts

Twin Commander

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
685	GTSIO520F	408590-9002*	635034-12	470892-9001	635381-1	481008-9004	640655-4	470944-9001	639319-1
685	GTSIO520K	408590-9002*	635034-12	470892-9001	635381-1	481008-9004	640655-4	470944-9001	639319-1
700	TIO540R2AD	465680-9001	LW-13897	470954-9001	LW-12960	481008-9020	LW-16060	470944-9022	LW-14445-6

* Includes bypass valve. To order turbocharger only, use 408590-9012.

Lancair

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
Lancair IV & IVP	TSIO550B	(2) 466304-9003	646667	470908-9017	636188-17	481058-9004	646318-4	470944-9034	639319-34
Lancair IV & IVP	TSIO550E	(2) 466304-9003	646667	481064-9001	646317	481058-9004	646318-4	470944-9026	639319-26

Mooney

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
M20K (79 - 81)	TSIO360GB	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	481028-9002	641404-2
M20K (82 & UP)	TSIO360LB,MB	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	481066-9003	643511-3
M22 (67 - 70)	TIO541A1A	406110-9005	LW-11968	470872-9001	77676	481008-9009	LW-14299	NONE	NONE
M20M (TLS)	TIO540AF1A	466011-9002	46C19836	470954-9005	LW-18661	470884-9004	LW-10862	470886-9002*	
M20M (TLS Bravo)	TIO540AF1B	466011-9002	46C19836	470954-9005	LW-18661	470886-9002	LW-10098		
Mooney Encore	TSIO360SB	466642-9001	649151-1	470842-7	649006-7	481008-9028	649362-1	481066-9003	643511-3

* This number is actually a differential controller.

RAJAY - see 600 series Turbo Charts

Piper

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
PA23-250	O540A1D5/A1B5	406330-9001**	406330-1	470656-9000	470656-0	470688-9003	470688-3	NONE	NONE
	IO540J4A5/C4B5	406610-9003	406610-3	470656-9001	470656-1	470688-9004	470688-4	NONE	NONE
	TIO540C1A	406610-9021	LW-12950	470818-9003	LW-12778	470884-9004	LW-10682	470886-9002*	LW-10098
PA28-201T	TSIO360F,FB	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	481028-9001	641404-1
PA28R TURBO	TSIO360F,FB	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	481028-9001	641404-1
Seneca IV	L/TSIO-360KB	RAJAY (600 Series)	RAJAY (600 Series)	----	----	----	----	481066-9001	643511-1
Seneca V	L/YSIO360RB	466642-9002	649151-2	470842-9008	649006-8	470836-19	649362-3	481066-9003	643511-3
PA31-310	TIO540A1A/A2A	406610-9020	LW-12689	470818-9003	LW-12778	470654-9001	75992	470912-9001*	LW-10644
PA31-310	TIO540A1B/A2B	406610-9020	LW-12689	470818-9003	LW-12778	470884-9004	LW-10682	470912-9001*	LW-10644
PA31-310	TIO540A2C	406610-9020	LW-12689	470818-9003	LW-12778	470884-9004	LW-10682	470912-9001*	LW-10644
PA31-325	L/TIO540F2BD	406610-9020	LW-12689	470818-9010	LW-14283	470884-9004	LW-10682	470912-9001*	LW-10644
PA31-350	L/TIO540J2BD	409170-9001	LW-12463	470818-9003	LW-12778	470884-9010	LW-16840	470886-9002*	LW-10098
PA31P	TIGO541E	407800-9003	LW-13234	470818-9005	LW-10759	481008-9010	LW-14298	470944-9011	LW-14445-3
PA31P-350	TIO540V2AD	465680-9005	LW-18470	470954-9005	LW-18861	481008-9025	LW-18518	470944-9010	LW-14445-4
PA32R-301T, Saratoga	TIO540S1AD	406610-9026	LW-15749	----	----	----	----	470944-9029	LW-14445-10
PA32-301T, Saratoga	TIO540S1AD	406610-9026	LW-15749	----	----	----	----	470944-9029	LW-14445-10
PA32-301T, Saratoga	TIO540AH1A	466011-9002	46C19836	470954-9009	47J22459	481058-9007	48B22488	470944-9040	LW-14445-12
PA32R-301, Lance	TIO540S1AD	406610-9026	LW-15749	----	----	----	----	470944-9029	LW-14445-10
PA32RT-300T, Lance	TIO540S1AD	406610-9026	LW-15749	----	----	----	----	470944-9029	LW-14445-10
PA34-200T	L/TSIO360E/EB	466240-9001**	646606	----	----	----	----	481028-9001	641404-1
PA34-220T	L/TSIO360FB,KB	466240-9001**	646606	----	----	----	----	481066-9001	643511-1
PA44-180T	L/TO360E1A6D	465398-9002	LW-16264	----	----	481058-9004	646318-4	481028-9003	LW-16265-1
PA46-310P	TSIO520BE	(LH)466304-9002**	646316	481064-9002	646317	481058-9004	646318-4	470944-9009	639319-9
		(RH)466304-9001**	646315						
PA46-350P	TIO540AE2A	(2)466642-9005	46C19839	470954-9007	47E21296	481008-9033	48E21383	470944-9007	LW-14445-2
Malibu Conversion	TSIO550C	(2)466304-9003	646667	481064-9001	646317	481058-9004	646318-4	470944-9026	639319-26
PA60-602P	IO540AA1A5	RAJAY (600 Series)	RAJAY (600 Series)	C.S.	C.S.	C.S.	C.S.	470944-9030	LW-14445-11
PA60-700P	L/TIO540U2A	RAJAY (600 Series)	RAJAY (600 Series)	C.S.	C.S.	C.S.	C.S.	470944-9007	LW-14445-2

* On these models of Aztec's and Navajo's, numbers are actually for a differential controller.

** These Turbochargers are non-PMA'd (reference only)

C.S. = Customer Supplied Parts - Available through Aerostar

RAJAY - see 600 series Turbo Charts

Misc. Applications

Aircraft Application	Engine Model	Turbocharger Part No.	Turbocharger OEM Part No.	Wastegate Valve Assy.	Wastgate Assy. OEM Part No.	Controller Part No.	Controller OEM Part No.	Relief Valve	Relief Vlv. OEM Part No.
Hiller Helicopter UH12L	TIVO540A2A	404830-9001	73895	470656-9000	73897	470654-9000	73898	NONE	NONE
Lake 250 Renegade	TIO540AA1AD	406610-9032	LW-19174	470954-9005	LW-18861	470884-9004 470886-9002	LW-10682 LW-10098	NONE	NONE
SIAI Marchette S210	TIO360A1B	407790-9002	LW-11564	470856-9001	77911	470884-9001	77758	NONE	NONE
Socata Trinidad	TIO540AB1AD	406610-9031	LW-19330	470954-9005	LW-18861	470884-9004 470912-9003	LW-10682 LW-19193	NONE	NONE

DISCLAIMER:

Hartzell Engine Technologies accepts no liability for inadvertent errors or omissions in the text of this chart. User understands that the information contained is designed for reference only and should be checked for accuracy prior to installation or specific application. Refer to current engine and airframe manuals for correct information.