

TECH RAY TECHNOLOG

TECH RAY TECHNOLOGY CO., LTD.

3F-1, No.545, Sec.2, Taiwan Blvd., West Dist., Taichung City, Taiwan. (40360)

TEL: +886-4-23260119 FAX: +886-4-23268220

E-mail: jomes_wu@hotmail.com



Auto Spare Parts

TOYOTA

Liner, Piston & Kit

Engine Model	No. Cyl.	Bore mm	Cylinder Liner			Piston				Liner Kit Or Remarks
			No.	L	Code	No.	Ring	Al	CH	

1E	4	70.5				13101-10033	3			
2K	4	72.0	13011-12030 13011-12031 13011-12010			13101-12010	3			
2E	4	73.0	11461-11040			13101-11030 (13101-11090) 13101-11040 13101-11050 (13101-11051)	3 3 3			
3E	4	73.0				13101-11081	3			
4E	4	74.0				13101-11101				
1N	4	74.0	11461-55020			13101-55020	3			
3K	4	75.0	11462-24010 11461-13010		S	13101-24010/11	3			
4K-U 4K	4	75.0	11462-24010 11461-13010			13101-13020 (13101-13021) (13101-13022)	3			
1G-GEU	6	75.0				13101-88300	3			
1G-EU	6	75.0	11461-70010			13101-70010	3			
1G-G	6	75.0				13101-70020	3			
1G-GZ	6	75.0				13101-70040	3			
M	6	75.0	11462-41010	160.0	S	13101-41010	3			
2M	6	75.0				13101-41040 13101-42010 13101-41060 (13101-41061) 13101-41050 13101-41020 13101-41011	3 3 3 3 3 3			
2A	4	76.0				13101-14010 13101-14020	3 3			
2P	4	76.6	11462-21010		S	13101-21010	4			
3P	4	76.6	11462-23010	140.0	S	13101-23010 (13101-23011)	3			
4P	4	76.6	11462-23010	140.0	S	13101-78001 13101-96001	3			
1A	4	77.5				13101-15010	3			
3A	4	77.5	11461-15020 11461-15010			13101-15020	3			
2R	4	78.0	11462-31010		S	13101-31010 13101-31011	3			
5AF	4	78.7				13101-15040 13101-15050	3 3			
T	4	80.0	11461-25010			13101-25010 13101-25011 13101-25020	3 3 3			
4M	6	80.0	11461-45010			13101-45010 13101-45020	3 3			

Code: S=Semi-Finish, F=Finish, All=S&F, B=Blacking (Phosphated), C=Chromed, P=Copper Plated

Al(A=Alfin, N=nonAlfin B=Both Available, CH=Cooling Channel, K=Keystone, H=Half Keystone

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			No.	L	Code	No.	Ring	AI	CH	

						(13101-45021) 13101-45011	3			
12R	4	80.5	11462-31020 11461-31020	144.0	S	13101-31020 (13101-31021) (13101-310220)	3			
1S	4	80.5	11461-31040			13101-63010 13101-63020	3 3			
5K	4	80.5	11461-13030			13101-13030 13101-13040	3 3			
4A-ELU	4	81.0				13101-16010	3			
4A-GEU	4	81.0				13101-16020 13101-16030	3 3			
4A-GE	4	81.0				13101-16070	3			
4A-FE	4	81.0				13101-16090	3			
4A	4	81.0	11461-16010			13101-16050	3			
4ASFI	4	82.5				13101-74071	3			
3E	4	83.0				13101-11081	3			
5M	6	83.0				13101-43020	3			
5M-GEU	6	83.0				13101-43040	3			
5M-G	6	83.0				13101-42030	3			
5M	6	83.0				13101-42040	3			
5M-GEU	6	83.0				13101-43041 13101-43051	3 3			
5M	6	83.0				13101-43010 (13101-43011) 13101-43030 (13101-43031)	3 3			
7M-GTEU	6	83.0				13101-42050	3			
7M-G	6	83.0				13101-42060	3			
1C	4	83.0	11461-64010 11461-64011		S	13101-64010 13101-64020	3 3			
1C-T	4	83.0				13101-64040	3			
1C	4	83.0	11461-64010 11461-64011			13101-64050 (13101-64100) 13101-64060 13101-64130	3 3			
2S	4	84.0				13101-74010 (13101-74011)	3			
21R	4	84.0	11461-37030 11461-37010			13101-37060 (13101-37061)	3			
21R-U	4	84.0	11461-37030			13101-37010	3			
21R-C	4	84.0	11461-37030			13101-37030	3			
21R	4	84.0	11461-37030 11461-37060			13101-37020 13101-37050	3 3			
2T	4	85.0	11461-26030 11461-26020 11461-26010			13101-26030 13101-26010 13101-26011	3 3 3			
2TU	4	85.0				13101-26031				

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			No.	L	Code	No.	Ring	Al	CH	
2TC	4	85.0				13101-26020				
2T-GR	4	85.0				13101-27021	3			
2T-J	4	85.0				13101-26040	3			
12T-U	4	85.0				13101-27030	3			
12T	4	85.0				13101-27040	3			
3T 13T-U	4	85.0				13101-28010	3			
3T	4	85.0				13101-28020	3			
3T-GTEU	4	85.0				13101-88280	3			
13T	4	85.0				13101-18010	3			
						13101-18020	3			
4T-GTEU	4	85.5				13101-88283	3			
6R 7R 8R	4	86.0	11462-33010		S	13101-33010/2/3/4	3			
7RB 8RB	4	86.0				13101-33021 (13101-33024)	3			
1Y	4	86.0				13101-71010	3			
2Y	4	86.0	11461-72010			13101-72010	3			
3Y	4	86.0	11462-73010,20			13101-73010	3			
3S-GELU	4	86.0				13101-74030 (13101-74031)	3			
3S-FE	4	86.0				13101-74040	3			
2C	4	86.0	11461-64090 11461-64060 11461-64110			13101-64030 13101-64080 13101-64090 13101-64110	3 3 3 3			
2CD	4	86.0	11461-64090			13101-64141		Y		
2C-T	4	86.0	11461-64090			13101-64070 13101-64121 13101-64220 13101-64181	3 3 3 3		Y Y	
3C	4	86.0	11461-64090			13101-64150 (13101-64151) 13101-64210	3			
3CT	4	86.0	11461-64090			13101-64150				
1DZ	4	86.0	11461-78020 11461-78200			13101-78201 13101-78202				
1RZ	4	86.0	11462-75010			13101-75010				
3VZ	6	87.5				13101-62040				
3VZ-E	6	87.5				13101-65040 13301-65040	3			
3R	4	88.0				13081-40010				
5R	4	88.0	11462-40010	150.0	S	13101-44011 (13101-44012) (13101-44014) 13101-44015 13101-44020	3 3 3			

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			No.	L	Code	No.	Ring	AI	CH	
						(13101-44021) 13101-44016	3			
2J	4	88.0	11461-48011			13081-48011 13081-48010	5 5			
2J(O)	4	88.0	11461-48010	S	S	13081-48012/3 13101-48012/3	4 4			
2J(N)	4	88.0	11461-48011	184.0	S	13081-48015-1 13081-48015-2 13081-48014 13081-47013	3 3			TODKT1801A TODKT1801B
2J(N)	4	88.0	11461-48011	184.0	S	13211-21910-71(A) (13221-21910-71(B))	3			
H	6	88.0	11461-48011 11461-48016	183.5	S	13081-47012 13081-47013 13101-47012 13101-47013	3 3			TODKT1501A TODKT1501B
18R	4	88.5	11461-34010			13101-34010 13101-34030 13101-34040	3			
18R-C	4	88.5				13101-88233 (13101-88252)	3			
16R	4	88.5				13101-36020 (13101-36030)	3			
20R	4	88.5	11461-34030 11461-38020			13101-38010 (13101-38020) 13101-38050 13101-38030	3 3 4			
F	6	90.0	11462-60010	188.0	S	13101-60010 13101-60011 13101-60020 13101-60030	4 4 4			
L	4	90.0	11461-54010 11461-54020 11461-54040	160.5	S	13101-54010 13101-54020 13101-54021 13101-54040 13101-54031	3 3 3 3 3			TODKT3001
4Y	4	91.0	11461-73010 11461-73011			13101-73030 13101-73040 13101-73031	3 3 3			
2H(N)	6	91.0	11461-68010	183.5	S	13081-68010 13101-68010/1	3			TODKT3002
2H(O)	6	91.0	11461-96601	183.5		13081-96601 13081-78601				
12H-T	6	91.0	11461-68010	183.5		13101-68020	3			
22R	4	92.0	11461-35020			13101-35010 (13101-35020) 13101-35030 (13101-35031)	3 3			

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			No.	L	Code	No.	Ring	AI	CH	

						13101-35050				
2L	4	92.0	11461-54060		S	13101-54060	3			TODKT-54060
2L II	4	92.0	11461-54070		S	13101-54070	3			TODKT54070
2L-T	4	92.0	11461-54060 11461-54070			13101-54050 13101-54030 13101-54080	3			TODKT54080
2L-T Late	4	92.0	11461-54060 11461-54070			13101-54090 (13101-54091) 13101-54111	3		Y	TODKT54090
2LT NEW	4	92	11461-54060			13101-54140 13101-54141	3		Y	TODKT54140
2KD	4	92.0			S	13101-30030 13101-30031	3			
2F	6	94.0	11462-61010		S	13101-61010 (13101-61011) 13101-61020	3 3			
3F	6	94.0				13101-61030	3			
3F-E	6	94.0				13101-61032	3			
1PZ	5	94.0	11461-17010	166.5		13101-17010	3			
1HZ	6	94.0	11461-17010 11462-17010	166.5		13101-17010 13101-17100	3	Y		
1HD-T	6	94.0	11461-17010	166.5		13101-17020 13101-17080	3			
1HD-T Late	6	94.0	11461-17010	166.5		13101-17040 13101-17060	3			
B(O) BU15	4	95.0	11461-56010			13101-56010,11 13101-56020,21	4			
B(N) BU20 BU30	4	95.0	11461-56020	190.0	S	13101-56013 13101-56020 13101-56021 13101-56030 13101-56031	3 3 3 3 3			KK1310156031 TODKT2101
B NEW	4	95	11461-56020	190.0		13101-56050	3	Y		
11B OLD	4	95.0	11461-56030 11461-56060	190.0	S	13101-56041 13101-56042	3 3			
11B Late	4	95	11461-56030	190.0		13101-56060		Y		
2RZFE	4	95.0				13101-75070				
2TZFE	4	95.0				13101-76041				
2RZE	4	95.0				13101-75020				
3RZFE	4	95.0				13101-75040				
2TZ	4	95				13101-95080				
1Z	4	96.0	11461-78300 11461-78301 11461-78302	182.5		13101-78300 13101-96300	3			KK1310189300 TODKT-78300
3L	4	96.0	11461-54100/1 11461-54090	160.5	S	13101-54100 (13101-54101)	3	Y		TODKT-78300
1KZ-TE	4	96.0	11461-78300 11461-78301	182.5		13101-67030 13101-67020	3		Y	

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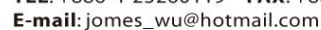
TOYOTA

Liner, Piston & Kit

Engine Model	No. Cyl.	Bore mm	Cylinder Liner			Piston				Liner Kit Or Remarks
			No.	L	Code	No.	Ring	Al	CH	
1KZ-TE Late	4	96	11461-78300 11461-78301	182.5		13101-67050	3		Y	
1KD	4	96				13101-30020 13101-30060				
11Z	6	96	11461-78300 11461-78301 11461-78360			13101-78300 13101-96300				
12Z	6	96	11461-78300 11461-78301 11461-78360			13101-78360				
13Z	6	96	11461-78700			13101-78761				
2Z	4	98.0	11461-78400 11461-78700			13101-78700 13101-78771 13101-78702	3			
2B	4	98.0	11461-57010	190.2	S	13101-57011 13101-57020 13101-57022	3			TODKT1701
13Z	4	98.0				13101-78761				
5L	4	99.50	11461-54120	160.5		13101-54120	3		Y	TODKT-58080
1FZ-FE	6	100.0				13101-66040	3			
3B	4	102.0	11461-58010 11461-58020 11461-58030 11461-58040	187.5	S S	13101-58011 (13101-58012)	3			KK1310158011
3B NEW	4	102.0	11461-58010 11461-58020 11461-58030 11461-58040	187.5	S S	13101-58050	3 3			KK1310158050
13B	4	102.0	11461-58010 11461-58020 11461-58030	190.2	S	13101-58020 13101-58021	3 3			KK1310158021
13B-T	4	102.0	11461-58010 11461-58020 11461-58030	187.5		13101-58030	3			TODKT-58030
14B-T	4	102.0	11461-58040	197.0		13101-58060	3	Y		TODKT-58060
14B	4	102.0	11461-58040	197.0		13101-58040				TODKT58040
1W	4	104.0	11461-78010 11461-78020 11461-78030 11461-78040 11461-78050			13101-78020 13101-78060	3			
2D(N)	6	105.0	11461-77021	233.0		13101-77020 13101-77021	4			11046-79055
2D(O)		105.0	11461-77040 11461-77020	242.0		13101-77012 13101-77013	5			
15B	4	108.0	11461-58080 11461-58090	200.0		13101-58080 13101-58090	3			

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