



Custom Turbocharger Match for: Josua Smale

Engine: 1.1L Mazda RX-7

Date: 5-22-00

ENGINE DISPLACEMENT LITERS	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ENGINE DISPLACEMENT CU. IN	67	67	67	67	67	67	67	67	67
ENGINE RPM	6900	8000	8000	8000	8000	8000	8000	8000	8000
ENGINE VOLUMETRIC EFF. %	157	157	157	157	157	157	157	157	157
COMPRESSOR DISCHARGE PRESSURE PSI	0	6	10	15	20	26			
AIR INLET TEMPERATURE DEGREES F	77	77	77	77	77	77	77	77	77
COMPRESSOR EFFICIENCY %	70	76	77	77	77	75			
AFTERCOOLER OUTLET TEMPERATURE F	77	102	116	131	144	161			
PRESSURE LOSS THROUGH COOLER PSI	0	-0.1	-0.3	-0.4	-0.5	-0.6			
AFTERCOOLER EFFECTIVENESS %	0	65	65	65	65	65			
PRESSURE RATIO	1.00	1.41	1.68	2.02	2.36	2.77			
AIR FLOW POUNDS PER MINUTE WITHOUT COOLER	15.5	22.4	25.1	28.3	31.3	34.5			
AIR FLOW POUNDS PER MINUTE WITH COOLER	15.5	24.1	27.9	32.6	37.2	42.5			
ESTIMATED HP WITHOUT AFTERCOOLER	155.3	223.7	251.0	282.9	313.2	345.0			
ESTIMATED HP WITH AFTERCOOLER	155.3	241.1	278.9	326.3	372.4	425.0			
ESTIMATED IMPELLER SPEED RPM	0	52,000	73,000	87,000	99,000	112,000			

\*Recommended Turbochargers 1ea T04E 60 F-1-62 .63 A/R

\* Recommendation is based on information supplied by customer and is not a guarantee of final power output

D.AUSTIN 2-25-02

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