


BRISTOL  SIDDELEY

AERO ENGINE SCHOOL

T. WILLIAMS.
31-10-66.

OLYMPUS

 200

SERIES

ENGINE

WITH 301 SUPPLEMENT

BRISTOL SIDDELEY ENGINES LIMITED

P.O. BOX 3, FILTON, BRISTOL, ENGLAND

BRISTOL  SIDDELEY

AERO ENGINE SCHOOL

OLYMPUS

200

TURBINE

ENGINES

NAME
DATE

MARCH 1961

AERO ENGINE SCHOOL

FOREWORD

This book is issued by the Aero Engine School for the use of students attending the courses, and it contains sufficient information to supplement the course lectures, including that which will be of the most use when operating or servicing Bristol Siddeley Engines.

Whilst every care has been taken to ensure that it is up to date, it will be appreciated that continuous development and changing operating conditions, may render it necessary to make alterations from time to time. NO AMENDMENTS will be forwarded, therefore, all subsequent modifications that are introduced concerning the engine will be the responsibility of each student.

These notes, therefore, are not intended as a manual on the subject, but are issued as a guide and a valuable contribution to the lectures and instruction given at the Bristol Siddeley Engines Limited, Aero Engine School.

These notes should be checked frequently with current information in the Official Maintenance and Overhaul Manual, A.P.'s, A.M.O's, or A.R.B. publications.

Hours of attendance - Mondays to Fridays

MORNING - 9.0 a.m. - 10.30 a.m. 11.0 a.m. - 12.45 p.m.

AFTERNOON - 2.15 p.m. - 3.15 p.m. 3.30 p.m. - 4.30 p.m.

No change in these times can be allowed without permission of the School Management

CONVERSION TABLES

CENTIGRADE FAHRENHEIT CENTIGRADE FAHRENHEIT				N/M ST.MLS. KMS. KMS. ST.MLS. N/M						MILLIBARS INCHES MILLIBARS INCHES			
-20	-32	+10	+50	1	1.152	1.853	1	0.621	0.540	950	28.054	1000	29.530
-29	-20	+11	+52	2	2.303	3.706	2	1.243	1.079	1	28.083	1	29.560
-28	-18	+12	+54	3	3.455	5.560	3	1.864	1.619	2	28.113	2	29.589
-27	-17	+13	+55	4	4.606	7.413	4	2.485	2.158	3	28.142	3	29.619
-26	-15	+14	+57	5	5.758	9.266	5	3.107	2.898	4	28.172	4	29.648
-25	-13	+15	+59	6	6.909	11.119	6	3.728	3.238	5	28.201	5	29.678
-24	-11	+16	+61	7	8.061	12.972	7	4.350	3.777	6	28.231	6	29.707
-23	-9	+17	+63	8	9.212	14.825	8	4.971	4.317	7	28.260	7	29.737
-22	-8	+18	+64	9	10.364	16.679	9	5.592	4.857	8	28.290	8	29.766
-21	-6	+19	+66	10	11.515	18.532	10	6.214	5.396	9	28.319	9	29.796
-20	-4	+20	+68	20	23.030	37.064	20	12.427	10.792	960	28.349	1010	29.825
-19	-2	+21	+70	30	34.545	55.595	30	18.641	16.188	1	28.378	1	29.855
-18	0	+22	+72	40	46.061	74.127	40	24.854	21.584	2	28.408	2	29.884
-17	+1	+23	+73	50	57.576	92.659	50	31.068	26.981	3	28.437	3	29.914
-16	+3	+24	+75	60	69.091	111.191	60	37.282	32.377	4	28.467	4	29.943
-15	+5	+25	+77	70	80.606	129.723	70	43.496	37.773	5	28.496	5	29.973
-14	+7	+26	+79	80	92.121	148.255	80	49.710	43.169	6	28.526	6	30.002
-13	+9	+27	+81	90	103.636	166.786	90	55.923	48.565	7	28.556	7	30.032
-12	+10	+28	+82	100	115.152	185.318	100	62.137	53.961	8	28.585	8	30.062
-11	+12	+29	+84							9	28.615	9	30.091
-10	+14	+30	+86							970	28.644	1020	30.121
-9	+16	+31	+88							1	28.674	1	30.150
-8	+18	+32	+90							2	28.703	2	30.180
-7	+19	+33	+91	1	1.094	3.381	60	65.617	196.851	3	28.732	3	30.209
-6	+21	+34	+93	2	2.187	6.562	70	76.553	229.659	4	28.762	4	30.239
-5	+23	+35	+95	3	3.281	9.843	80	87.489	262.467	5	28.792	5	30.268
-4	+25	+36	+97	4	4.374	13.123	90	98.425	295.276	6	28.821	6	30.298
-3	+27	+37	+99	5	5.468	16.404	100	109.361	328.084	7	28.851	7	30.327
-2	+28	+38	+100	6	6.562	19.685	200	218.723	656.169	8	28.880	8	30.357
-1	+30	+39	+102	7	7.655	22.966	300	328.084	984.253	9	28.910	9	30.386
0	+32	+40	+104	8	8.749	26.247	400	437.446	1312.337	980	28.939	1030	30.416
+1	+34	+41	+106	9	9.843	29.528	500	546.807	1640.421	1	28.969	1	30.445
+2	+36	+42	+108	10	10.936	32.808	600	656.169	1968.506	2	28.998	2	30.475
+3	+37	+43	+109	20	21.872	65.617	700	765.530	2296.590	3	29.028	3	30.504
+4	+39	+44	+111	30	32.808	98.425	800	874.891	2624.674	4	29.058	4	30.534
+5	+41	+45	+113	40	43.745	131.234	900	984.253	2952.758	5	29.087	5	30.564
+6	+43	+46	+115	50	54.681	164.042	1000	1093.614	3280.843	6	29.117	6	30.593
+7	+45	+47	+117							7	29.146	7	30.623
+8	+46	+48	+118							8	29.176	8	30.652
+9	+48	+49	+120							9	29.205	9	30.682
	+48	+50	+122							990	29.235	1040	30.711

TO CONVERT CONSUMPTION			
	INTO	MULTIPLY BY	
LITRES PER KM.	GALLONS PER MILE	0.3544	
GALLONS PER MILE	LITRES PER KM.	2.8217	

VOLUME			
	INTO	MULTIPLY BY	
IMPERIAL GALLONS	LITRES	4.546	
LITRES	IMPERIAL GALLONS	0.2205	
IMPERIAL GALLONS	U.S. GALLONS	1.205	
U.S. GALLONS	IMPERIAL GALLONS	0.830	
CUB. CENTIMETRES	CUBIC INCHES	0.06102	
CUBIC INCHES	CUBIC CENTIMETRES	16.387	
GALLONS	CUBIC FEET	0.161	
CUBIC FEET	GALLONS	6.25	
LITRES	PINTS	1.76	
PINTS	LITRES	0.568	

TO CONVERT DISTANCE			
	INTO	MULTIPLY BY	
FEET	METRES	0.3048	
METRES	FEET	3.2808	
MILES	NAUTICAL MILES	0.8684	
NAUTICAL MILES	MILES	1.1515	
MILES	KILOMETRES	1.60932	
KILOMETRES	MILES	0.62137	

SPEED			
	INTO	MULTIPLY BY	
KNOTS	MILES PER HOUR	1.1515	
MILES PER HOUR	KNOTS	0.8684	

TO CONVERT WEIGHT			
	INTO	MULTIPLY BY	
LBS. 1-99	KILOGRAMS	0.454	
LBS. 100-999	KILOGRAMS	0.4536	
LBS. 1,000-9,999	KILOGRAMS	0.45359	
LBS. 10,000 AND OVER	KILOGRAMS	0.453592	
KILOGRAMS 1-99	LBS.	2.205	
KILOGRAMS 100-999	LBS.	2.2046	
KILOGRAMS 1,000-9,999	LBS.	2.20462	
KILOGRAMS 10,000 & OVER	LBS.	2.204622	

To convert Centigrade into Fahrenheit multiply by (C° x 9/5)+ 32

To convert Fahrenheit into Centigrade multiply by (F° - 32) x 5/9

To convert Inches to Millibars multiply by 32.86.

To convert Millibars to Inches multiply by 0.0295.

WP.4971

GENERAL INDEX

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