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**ROLLS ROYCE VIPER MK.102 TURBOJET**

ROLLS ROYCE

VIPER MK.102

1979

A662835



**ROLLS ROYCE VIPER MK.102 TURBOJET**



**GENERAL**

Installation ..... Jet Provost Mk.3A  
 Type of Engine ..... Viper 8 Series Turbojet  
 Direction of Rotation ..... Anti-clockwise viewed from rear  
 Aircraft Air Intake ..... Bifurcated  
 E.C.U Air Intake ..... Annular  
 Compressor ..... Seven Stage, Axial Flow  
 Pressure Ratio ..... 4.0 : 1 at 100% r.p.m  
 Air Flow ..... 32 lb/sec  
 Combustion Chamber ..... Annular Vapouriser Type  
 Turbine ..... Single Stage, Axial Flow  
 Lubrication ..... Pressure & Metered Feed  
 Cooling ..... Air Cooling of Combustion Chamber & Turbine  
 Exhaust System ..... Exhaust Cone & Jet Pipe

**Overall Dimensions & Weight**

Length (From Front Face of Air Intake Casing To Exhaust Cone Rear Flange) ..... 67 in.  
 Diameter (Over Combustion Chamber Flange) ..... 24.3 in.  
 Dry Weight of Engine ..... 582 lbs

**PERFORMANCE**

| Condition    | Engine Speed | J.P.T | Thrust |
|--------------|--------------|-------|--------|
|              |              | deg.C |        |
| Maximum      | 110%         | 678   | 1,750  |
| Intermediate | 95%          | 640   | 1,650  |
| Minimum      | 85%          | 600   | 1,400  |

INSTALLATION: JET PROVOST MK.3A, TYPE OF ENGINE: VIPER 8 SERIES TURBOJET, DIRECTION OF ROTATION: ANTI-CLOCKWISE VIEWED FROM REAR, AIRCRAFT AIR INTAKE: BIFURCATED, E.C.U AIR INTAKE: ANNULAR, COMPRESSOR: SEVEN STAGE AXIAL FLOW, PRESSURE RATIO: 4.0 : 1 AT 100% R.P.M, AIR FLOW: 32 LB/SEC, COMBUSTION CHAMBER: ANNULAR VAPOURISER TYPE, TURBINE: SINGLE STAGE, AXIAL FLOW, LUBRICATION: PRESSURE & METERED FEED, COOLING: AIR COOLING OF COMBUSTION CHAMBER & TURBINE, EXHAUST SYSTEM: EXHAUST CONE & JET PIPE, LENGTH: 67 IN., DIAMETER: 24.3 IN., DRY WEIGHT OF ENGINE: 582 LBS, - -