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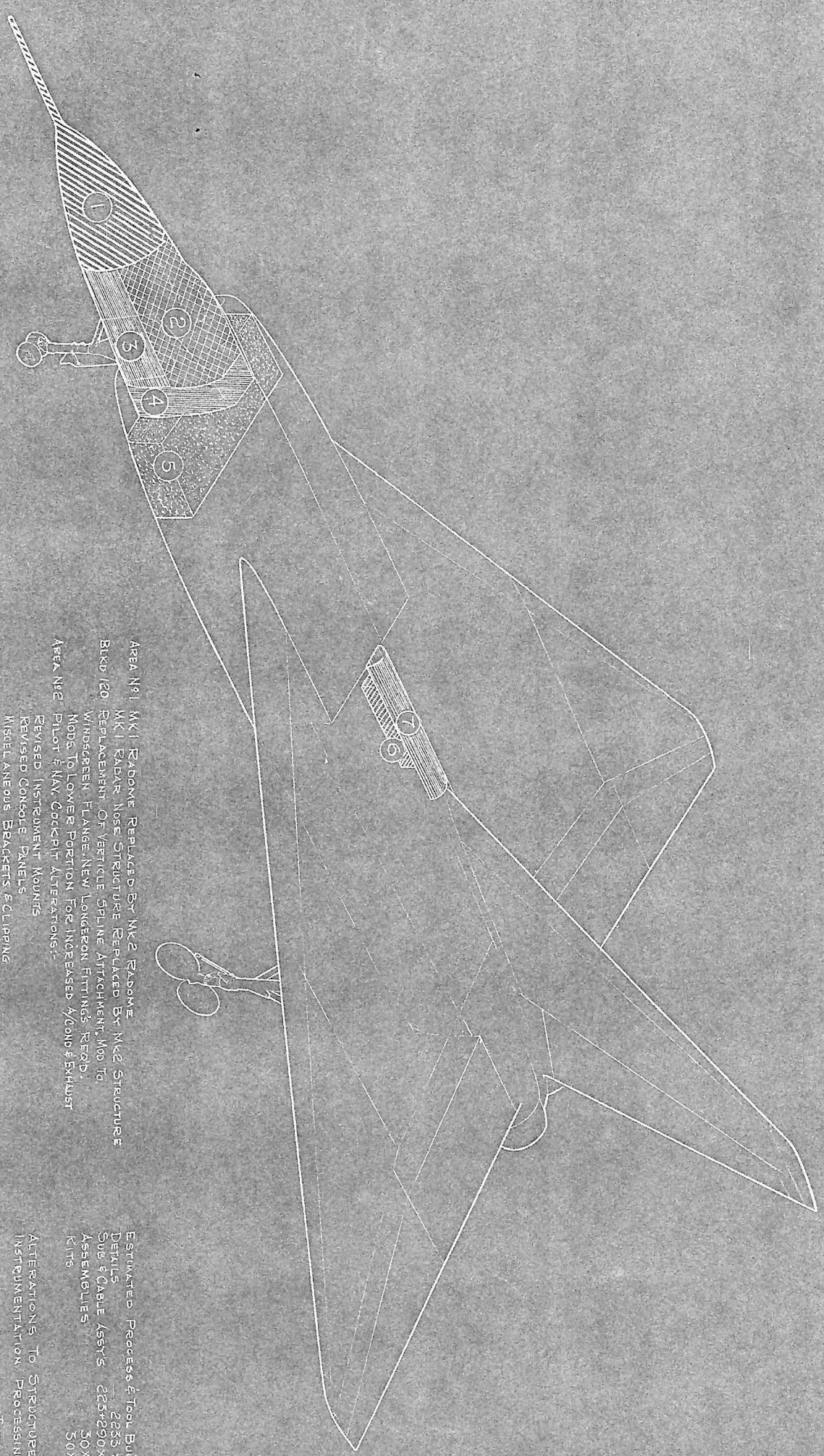

AREA No1 MK1 RADOME REPLACED BY MK2 RADOME
MK1 RADAR NOSE STRUCTURE REPLACED BY MK2 STRUCTURE
BLKD 120 REPLACEMENT OF VERTICLE SPLINE ATTACHMENT, MOD TO
WINDSCREEN FLANGE-NEW LONGERON FITTINGS REQD.
MODS TO LOWER PORTION FOR INCREASED A/COND & EXHAUST
AREA No2 PILOT & NAV COCKPIT ALTERATIONS:-
REVISED INSTRUMENT MOUNTS
REVISED CONSOLE PANELS
MISCELLANEOUS BRACKETS & CLIPPING
AREA No3 PROVISION FOR MOUNTING IN NOSE WHEEL BAY:
ELECTRICAL EQUIP & WIRING
HEAT EXCHANGER & HYD PIPING
A/COND DUCTS & EXHAUST
AREA No4 PROVISION FOR MOUNTING IN A/COND DUCT BAY
HYD MOTOR & PUMP
OIL RESEVOIR
ACCUMULATOR
COOLANT OIL RESERVOIR/PUMP
CLIPPING FOR PIPING & WIRING
AREA No5 MODS TO ELECTRONIC BAY
NEW STRUCTURE FOR SHOCK MOUNT RACKS
RELOCATION OF EQUIP IN CENTRE DOOR
DELETION OF INTERIM ELECTRONICS SYSTEM COMPONENTS
ADDITION OF ASTRA I COMPONENTS
PROVISION FOR ADDITION OF WIRING & CLIPPING
AREA No6 MODS TO DUCT BAY (ART STR 485)
STRUCTURE PROVISION FOR ENTRAL & PLATFORM
ELECTRICAL COMPUTER & ASSOCIATED MEMBERS
PROVISION FOR ALTERNATE WIRING & TUBING
AREA No7 MOD TO DOOR
NEW MOUNTING & [illegible] FOR [illegible] & ALT COMPONENTS

ESTIMATED PROCESS & TOOL BUILD MAN HRS.

DETAILS	2235 x 2-4,466 MAN HRS.
SUB & CABLE ASSYS	225+290 x 4-2,052 MAN HRS.
ASSEMBLIES	30 x 6- 180 MAN HRS.
KITS	30 x 8- 240 MAN HRS.
	6,938 MAN HRS.
ALTERATIONS TO STRUCTURE	3,000 MAN HRS
INSTRUMENTATION PROCESSING	2,000 MAN HRS
TOTAL	11,938 MAN HRS.
TOOL BUILD 10% OF 2235 x 10-	2,230 MAN HRS.
COMPLETE TOTAL	14,168 MAN HRS.

AVRO AIRCRAFT LIMITED
PRODUCTION ENGINEERING DEPARTMENT
TOOL DESIGN

ASTRA I
NOSE & WING

BILL OF MATERIAL