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RESTRICTED
1 April, 1943

BU. OF AERO., NAVY DEPT.
PERFORMANCE DATA

MODEL AE-1 LAND.

	← AMBULANCE → (No Casualty)					
GROSS WEIGHT LBS	1414	1245				
WEIGHT EMPTY "	894					
FUEL/OIL GALS.	20/2	20/2				
SUNSH/ROD/AMM						
" "						
WING LOADING	7.9	7.0				
POWER LOADING	14.1	12.5				
ENGINE	Lycoming O-235-2 (D.D.)					
ENGINE RATING (BHP/RPM/ALT)	NORMAL			MILITARY		
	100/2600/S.L.			None		
ENG. RATE FOR PERF.						
VM-SEA LEVEL MPH	99	99				
- 5000' "	97	97				
- 10000' "	93	94				
- 15000' "	85	88				
- " "						
- " "						
- " "						
- " "						
- " "						
CLIMB-S.L. FT/MIN	710	880				
- " "						
TIME-10000' MIN	21.5	16.8				
- 20000' "						
SERVICE CEIL. FT	16000	18300				
VS-GR. WEIGHT MPH	41.0	38.4				
- LESS FUEL "	39.2	36.5				
END/60% VM	6.2/59	6.6/59				
/75 " 1500'	4.2/74	4.3/74				
/90 " "						
/VM "	1.9/99	1.9/99				
MAX END/VAV*						
" RANGE/VAV* MI/MPH	370/58	405/55				
TAKE-OFF-CALM FT.	333	240				
(LAND)-15 KN. "	135	90				
-25 KN. "	50	28				
TAKE-OFF (SEA) SEC.						

*AT 1500 FT.

REMARKS

Lycoming O-235 (100/2550/S.L.) is installed in 30 airplanes.

RE-ISSUED FROM ORIGINAL DATE - Range and Endurance figures recomputed
incorporating a suitable increase in S.F.C. to conform with past experience.

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SHEET 1 OF 2

MODEL AE-1 LAND.

BU. OF AERO., NAVY DEPT.
GENERAL DATA

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MODEL AE-1 LAND.

GENERAL

GROSS WEIGHT _____ LBS. C.G. _____ % M.A.C. C.G. FROM T.L. _____ INS.
MAX. CENTER OF GRAVITY RANGE _____ TO _____ % M.A.C.

SPAN _____ 35'-6" HEIGHT, LEVEL _____ 9'-6"
" , FOLDED _____ " , ON WHEELS _____ 6'-6"
LENGTH, LEVEL _____ 22'-6" " , " " , FOLDED _____
" , ON WHEELS _____ 22'-6" " , ~~HOIST AND INDEX~~ * 12'-6"

WING AREA _____ 179 SQ. FT. M.A.C. _____ 61.8 INS.
WING SECTION _____ USA-35B

DISP, MAIN FLOAT _____ LBS. DISP, AUX. FLOAT _____ LBS.
BEAM, MN. FL., HULL _____

PROPELLER

TYPE _____ Sensenich F.P. NO. OF BLADES _____ 2
DIAMETER _____ 6'-2" BLADE DES. NO. _____ 74EE46

FUEL TANKAGE

FIXED TANKS (PROTECTED) _____ none GALS. TOTAL, FIXED TANKS _____ 20 GALS.
" " (UNPROTECT) _____ 20 GALS. " , " (PROT. REMOVED) _____ GALS.
AUX. TANKS, DROPPABLE _____ none

OIL TANKAGE

TOTAL (PROTECT, UNPROTECT) _____ 2* GALS. TOTAL (PROT. REMOVED) _____ GALS.
* In engine

PROV. FOR BOMBS, ETC.

None

REMARKS * Maximum while raising canopy for removal of casualty.