

A.R.I. 5747 (H2S)

6. Carry out a functional test of the H2S equipment and ensure that correct presentation is obtained. Check correct functioning of all manual controls.

LUCERO

7. Carry out a functional test of LUCERO (TR3566A).

LORAN

8. Carry out a functional test of LORAN (AN/APN-9).

RADIO ALTIMETER

9. Carry out a functional test of the RADIO ALTIMETER (AN/APN-1).

GENERAL

0. Check that all equipments are switched "OFF".
1. Disconnect external power supplies.
2. Sign Form E/E. 77.

Note—All information necessary to carry out functional tests if the equipments covered in this Servicing Schedule are to be found at "INFORMATION AND NOTES".

PLANNED SERVICING
SCHEDULE

LINCOLN AIRCRAFT.
(MK 30 + 30 A)

DAILY
BEFORE FLIGHT
AFTER FLIGHT
WEEKLY.

ELECTRICAL
WIRELESS
RADAR.

55-137

Planned Servicing Schedule

LINCOLN AIRCRAFT

Daily Servicing

ELECTRICAL

<i>Item No.</i>	<i>Servicing Detail</i>
1.	Examine Form E/E. 77 for reported faults and rectify as necessary.
2.	Test the operation of the visual and audible warning devices by operating the micro-switches.
3.	Check the operation of the landing, navigation and formation keeping lamps.
4.	Check the Master Voltage Regulator for alignment of white lines and correct operation of the diaphragm.
5.	(a) Check the cleanliness and security of the accumulators. (b) Check the accumulator tray and adjacent floor for signs of corrosion.
6.	Check the heater circuit of the pressure head by pressing the test button and noting the ammeter reading.
7.	Check the "Pulsemeter" fuel booster pumps by pressing the test button and noting the ammeter readings. <i>Note</i> —Slow running cut off to be in "idle cut-off" position and the pneumatic pressure above 160 lbs. p.s.i. for this test.
8.	Check the operation of the radiator shutters by operating the switches and visually observing the shutter movements. <i>Note</i> —Minimum pneumatic pressure for test 160 lbs. p.s.i.
9.	Check the operation of all internal lighting, screening of lights, and the correct voltage of lamps.
10.	Check the auxiliary lighting for correct functioning.

*Item No.**Servicing Detail*

11. Check the downward identification lights for correct functioning by tapping the light key.
12. Check call lights for correct functioning.
13. Check the supercharger warning lights.
Note—Minimum pneumatic pressure for test 160 lbs. p.s.i.
14. Check the operation of the priming pumps by operating the switch.
15. Check the operation of the propeller feathering circuit by pressing the feathering buttons and releasing quickly.
16. Ensure that all switches are in the "OFF" position.
17. Make the necessary entries in and sign Form E/E. 77.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Daily Servicing

WIRELESS

<i>Item No.</i>	<i>Servicing Detail</i>
1.	Examine Form E/E. 77 for reported faults and rectify as necessary.
2.	Visually check the security of all aerials.
3.	Check the serviceability of TR.5043, T1154/R1155 and A.1134A.
4.	Carry out a functional test at all crew stations of the inter-communications system.
5.	Check that two fully charged 2 Volt batteries are installed in the aircraft.
6.	Ensure that all equipment is turned "OFF".
7.	Make the necessary entries in and sign form E/E. 77.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Mark 30 and 30A

Daily Inspection

RADAR

Item No.

Servicing Detail

1. Check the following items for damage and security:—
All aerials, aerial loading units, and H2S Scanner Cupola. All Transmitters, receivers and power units. All control units, switch units and indicators. All wiring, terminal connections, junction boxes, plugs and sockets.
2. Check that all equipment is switched OFF.
3. Sign Form E/E. 77.

BEFORE

FLIGHT.

Planned Servicing Schedule
LINCOLN AIRCRAFT
Before-Flight Servicing
ELECTRICAL

Item No.

Servicing Detail

1. Examine form E/E. 77 and ensure that the reported faults have been rectified and signed off.
2. Ground flight "switch to Flight" and check the battery voltage.
3. If night flying is to be carried out and before the first flight :—
 - (a) Test the functioning of the navigation, identification, recognition, formation keeping, and landing lights.
 - (b) Test the functioning of all cock-pit lights, general lighting and call lights.
4. If bomb release gear is to be used carry out a functional test in conjunction with the armourer.
5. If flare chutes are to be used carry out a functional test in conjunction with the armourer.

Planned Servicing Schedule
LINCOLN AIRCRAFT
Before-Flight Servicing
WIRELESS

Item No.

Servicing Detail

1. Examine form E/E. 77 and ensure that the reported faults have been rectified and signed off.
2. Visually inspect the security of all aerials.
3. Check the serviceability of T1154/R1155 and A1134A.
4. Carry out a functional test of the inter-communications systems at all crew stations.
5. Ensure that two fully charged 2 volt batteries are installed in the aircraft.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Mk. 30 and 30A

Before-Flight Servicing

RADAR

Item No.

Servicing Detail

1. Visually check the security of all aerials, reflectors, directors and H2S Scanner Cupola.
2. Examine all Radar equipment for security and ensure that plugs and sockets are properly fitted and locked.
3. Connect external power supplies and carry out functional test of H2S.
4. Check that all equipment is switched OFF.

Note.—(a) Items 3 and 4 can be omitted if H2S equipment is not to be used on the flight undertaken.

(b) All information necessary to carry out functional tests of the equipment covered in this Servicing Schedule are to be found at "INFORMATION AND NOTES".

AFTER

FLIGHT.

Planned Servicing Schedule
LINCOLN AIRCRAFT
After-Flight Servicing
ELECTRICAL

Item No.

Servicing Detail

1. Examine form E/E. 77 for reported faults and rectify as necessary.
2. Check the battery voltage.
3. Ensure that "Ground/Flight" switch is in "Ground" position and that all switches are in the "OFF" position

Planned Servicing Schedule
LINCOLN AIRCRAFT
After-Flight Servicing
WIRELESS

Item No.

Servicing Detail

1. Examine form E/E. 77 for reported faults and rectify as necessary.
2. Visually check the security of all aerials.
3. Ensure that all equipment is switched "OFF".

Planned Servicing Schedule

LINCOLN AIRCRAFT

Mk. 30 and 30A

After-Flight Inspection

RADAR

Item No.

Servicing Detail

1. Take action to service or replace faulty items shown on Form E/E. 77 or reported by aircrew.
2. Check and test any repair work carried out on the radar equipment by the aircrew during flight.
3. Visually check the security of all aerials, reflectors, directors and H2S Scanner Cupola.
4. Check that all equipment is switched OFF.

~~AMENDMENT CARD~~

WEEKLY.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Weekly Servicing

ELECTRICAL

<i>Item No.</i>	<i>Servicing Detail</i>
1.	Examine Form E/E. 77 for reported faults and rectify as necessary.
2.	Test the functioning of visual and audible warning devices by operating the micro-switches.
3.	Test the functioning of the navigation formation, identification, recognition and landing lights.
4.	Check the master voltage regulator for alignment of white lines and correct operation of the diaphragm.
5.	(a) Examine the level of the electrolyte in the accumulators and top up as necessary. (b) Inspect the accumulator stowage for signs of spilled acid, corrosion and security.
6.	Test the functioning of the pressure head heater circuit by pressing the test button and noting the ammeter reading.
7.	Check the "Pulsemeter" fuel booster pumps by pressing the test buttons and noting the ammeter readings. <i>Note</i> —Slow running cut-off to be in "Idle Cut-off" position and pneumatic pressure to be above 160 lbs. p.s.i. for this test.
8.	Test the operation of radiator shutters by operating the switches and visually checking the shutters for correct movement. <i>Note</i> —Minimum pneumatic pressure for this test 160 lbs. per square inch.
9.	Test the functioning of all internal lighting, screening of lighting and correct voltage of lamps.

10. Test the functioning of the auxiliary lighting.
11. Test the functioning of the call lights.
12. Test the functioning of the supercharger warning lights.
Note—Minimum pneumatic pressure for this test, 160 lbs. per square inch.
13. Test the functioning of the fuel priming pumps by operating the switch (Audiible check).
14. Test the functioning of the propeller feathering circuit by pressing the feathering buttons and quickly releasing.
15. Check the fuses for correct value, and ensure that all spares are serviceable and correctly stowed.
16. Ensure that all switches are in the "OFF" position.
17. Make the necessary entries in and sign Form E/E. 77.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Weekly Servicing

WIRELESS

<i>Item No.</i>	<i>Servicing Detail</i>
1.	Examine Form E/E. 77 for reported faults and rectify as necessary.
2.	(a) Check the security of all fixed aerials and connectors. (b) Check the security of the trailing aerial and beam weights.
3.	(a) Remove A1134A accumulators. (b) Check the stowage for cleanliness, signs of spilt acid corrosion and security. (c) Refit 2 fully charged accumulators.
4.	Check that all equipment is securely mounted and all connections are tightly locked.
5.	Connect on external power unit and check all radio fittings.
6.	Carry out a functional test of the intercommunication system from all air-crew stations.
7.	Carry out a functional test of the T1154/R1155 on all ranges and ensure that the receiver noise level is normal.
8.	Check the D.F. loop for correct "VISUAL" and "AURAL" functioning.
9.	(a) Check the tuning of the TR.5043 transmitters on all channels using test set I.E.-36. (b) Carry out a functional test of TR.5043 receivers. Check the action of the "Press to Talk" switches.
10.	Ensure that all switches are "OFF".
11.	Make the necessary entries in and sign Form E/E. 77.

Planned Servicing Schedule

LINCOLN AIRCRAFT

Mk. 30 and 30A

Weekly Servicing

RADAR

Item No.

Servicing Detail

GENERAL

1. Check that the following equipments are securely mounted:—
 - (a) A.R.I. 5747 (H2S), Indicator Type 184A, Scanner and H.F. Box, Switch Unit Type 289, Fishpond Indicator Type 182A, Waveform Generator (FPI) Type 43, Modulator Type 64, Waveform Generator Type 65, Power Unit Type 280, C.V.P. Type 11.
 - (b) LUCERO, Transmitter — Receiver TR.3566A and Control Unit Type 222A.
 - (c) LORAN (AN/APN-9) Receiver—Indicator Unit Type R65/APN-9.
 - (d) RADIO ALTIMETER (AN/APN-1), Transmitter-Receiver RT-7/APN-1, Altitude Limit Indicator Type ID-14APN-1 and Altitude Limit Switch Type SA-1APN-1.
2. Check that all aerials are securely mounted and undamaged. Clean insulators.
3. Check that all cable connectors are tightly locked and that all "Pye" plug locking clips are in position.
4. Connect external power supplies, switch on following equipments and allow to warm up:—
A.R.I. 5747 (H2S), LUCERO AN/APN-9 (LORAN), and AN/APN-1 (RADIO ALTIMETER).
5. Check that the output from the V.C.P. Type 11 is 80 volts plus or minus 2 volts.