

ATA AIRLINES, INC.

L-1011 LINE SERVICE CHECK

PAGE 1 / 28

CHECK BEING PERFORMED: Custom

ZONES:
 A/C NUMBER:
 REV. DATE: 01/10/08
 FREQUENCY: PCI
 AD NUMBER 87-08-09 74-08-09

W/C NUMBER: 590M9907 DATE:

MFR P/N	DESCRIPTION	QTY
LD4	SKYDROL (9200217)	A/R
2380	ENGINE / APU OIL 2380, TURB.MIL-PRF-23699TY2	A/R
25S	SAFE SMOKE (9200699)	A/R
FM-0241	CREW LOG (9901223)	A/R
F40016	LOG BOOK (9906635)	A/R
TAPE	CARGO PIT FIRE RETARDANT TAPE (2505396)	A/R
SC3205	SANICOM (9200916)	A/R
DC316	MOLYKOTE (9200701)	A/R
SP116-13	WINDSHIELD WASHER FLUID (9200715)	A/R
NOTE:	ADDITIONAL PARTS LISTED AT BEGINNING OF WORKCARD	

TOOLS	DESCRIPTION	QTY
6643A13	TIRE PRESSURE GAUGE	1
H3310	HEADSET	1
COMMON	FUEL SUMP DRAIN TOOL	1
COMMON	GROUND CABLE	2
NOTE:	ADDITIONAL TOOLS LISTED AT BEGINNING OF WORKCARD	

REFERENCES

AMM 12-12-01 AMM 12-12-21 AMM 12-14-01 AMM 24-00-00 AMM 25-51-13 AMM 25-51-14
 AMM 26-15-00 AMM 26-15-10 AMM 29-11-00 AMM 32-41-00 AMM 32-41-01 AMM 71-00-07
 AMM 72-01-00 FIGURES 1 - 9 GMM CHAPTER 3 590M9907

MECH INSP

A/C _____ WO/Log Page _____ Station _____ Date _____

 * When performed in conjunction with a B or higher level *
 * Check the "Final Tasks" section of this Work Card must be *
 * accomplished last. *

NOTE: FAA Order 8300.10 allows cylinders to remain in service past the hydrostatic test date. Reference GMM Chapter 4 for details.

NOTE: Additional Parts Listing.

MFR P/N	DESCRIPTION	QTY
6630000-1	RED ROPE TYPE SEAL (9100786)	A/R
5027-401-2256	SEAT BELT EXT. (2505496)	A/R
3258-101ATA	SEAT WRAPS "OUT OF SERVICE" (2505464)	A/R

NOTE: Additional Tools Listing.

TOOLS	DESCRIPTION	QTY
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A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

COMMON	BYPASS PIN	1
COMMON	GEAR PIN (INSTALLED ON AIRCRAFT)	3
COMMON	RAT LOCKOUT BAR (INSTALLED ON AIRCRAFT)	1
25-0904-021	TETHERING KIT (INSTALLED ON AIRCRAFT)	1

1. PREPARATION TASKS.

_____ XXXXX A. Exterior.

WARNING: STAY CLEAR OF RAM AIR TURBINE (RAT) DOORS. ENSURE RAT BAR IS CONTACTING AIRCRAFT SKIN AND ALL BOLTS ARE TIGHT.

- (1) Landing gear pins, bypass pin, RAT bar and other safety devices are installed as required. Logbook entry required (Ref. GMM CH 3).
- (2) Static ground cables connected (if required).
- (3) Ensure one wheel per truck is chocked fore and aft.
- (4) Parking brake - Released.

CAUTION: PERFORM AUXILIARY POWER UNIT (APU) FIRE WARNING TEST AND VERIFY THAT BOTH AC HYDRAULIC PUMPS AND AIR TURBINE MOTOR (ATM) SWITCHES ARE OFF BEFORE STARTING APU.

- (5) Ensure APU inlet and exhaust are clear from obstructions.

_____ XXXXX B. Supply electrical power per AMM 24-00-00.

_____ XXXXX C. Interior.

- (1) Ensure that all collared circuit breakers located in the flight deck (normally pulled by flight crew) have been opened. All other flight deck circuit breakers placed in their normal configuration.
- (2) Flight Control Electronics Panel (FCES) - All switches latched in.

NOTE: Some FCES panel lights will remain illuminated without hydraulics applied.

- (3) Primary Flight Control System (PFCS) monitor panel -

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

Stabilizer switches "INOP" lights on (without hydraulics applied). All other PFCS lights out.

- (4) Windshield wiper switches off.
- (5) Landing and runway turnoff light switches off.
- (6) Window heat switches to IDLE or OFF (Unless required in cold weather to reach temperature by takeoff time).
- (7) Landing gear handle down and in with 3 green down and locked lights illuminated.
- (8) Air data sensor heat switches off.
- (9) Radar off.
- (10) Transponder off.
- (11) Electric hydraulic pump switches off.
- (12) Air Conditioning switches off.
- (13) Radio master switches off.
- (14) Flap lever position up - Agrees with indicators.
- (15) Speed brake lever - Fwd and agrees with indicator.
- (16) Engine start levers - Cutoff.
- (17) Thrust levers - Idle.

- _____ XXXXX D. Place all Inertial Navigation System (INS) switches to "ATT" position (only for aircraft with triple INS).
- _____ XXXXX E. Fail flags or warning lights present - Follow applicable Fault Isolation Manual (FIM) procedures.
- _____ XXXXX F. Turn off all INS switches (only for aircraft with triple INS).
- _____ XXXXX G. Review and clear aircraft log open write-ups, to include recurring maintenance procedures of open minimum equipment list/configuration deviation list items that restrict accomplishing the Line Service check.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

2. ENGINE AND PYLON TASKS.

CAUTION: USE THE PROPER OIL; -524 ENGINES, APU'S, AND ATM'S USE EXXON 2380.

CAUTION: DO NOT OVERFILL. OVERFILLING CAN CAUSE DAMAGE.

A. Engine Oils - Service per AMM 12-12-01. Record oil adds to applicable oil add block in logbook and AMERICA (ATAML) including position and quantity. If AMERICA access is not available, contact Maintenance Control to record oil add data.

NOTE: Use only 2380 Oil to service Engines.

- _____ XXXXX (1) No. 1 Engine. #1 Eng. Qty. added _____ Quarts.
- _____ XXXXX (2) No. 2 Engine. #2 Eng. Qty. added _____ Quarts.
- _____ XXXXX (3) No. 3 Engine. #3 Eng. Qty. added _____ Quarts.
- _____ XXXXX (4) Record Engine Monitoring Log (EML) data since the last Line Service Check in AMERICA (ATAML). If AMERICA access is not available, contact Maintenance Control to record EML data.

NOTE: After EML data is entered into AMERICA, remove any completed PM0463 L1011/RB211 EML Data forms from the M10 and forward with removed Log Pages to MX Records.

B. Integrated Drive Generator (IDG) oils - Service per AMM 12-12-21. Record oil adds in logbook including position and quantity.

- _____ XXXXX (1) No. 1 Engine IDG. Qty. added _____ Quarts.
- _____ XXXXX (2) No. 2 Engine IDG. Qty. added _____ Quarts.
- _____ XXXXX (3) No. 3 Engine IDG. Qty. added _____ Quarts.

C. Perform General Visual Inspection (GVI) of the following while looking for loose or foreign objects.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

(1) Check fairings, intakes (including S-duct), exhausts, fan blades, fan reverser and lock indicator for correct position, and fire extinguisher thermal discharge indicators.

(2) Wing engine pylons.

_____ XXXXX (3) Record accomplishment for No. 1 Engine.

_____ XXXXX (4) Record accomplishment for No. 2 Engine.

_____ XXXXX (5) Record accomplishment for No. 3 Engine.

CAUTION: INSTALLATION OF MAGNETIC CHIP DETECTOR WITHOUT 2 SEAL RINGS CAN RESULT IN EXCESSIVE OIL LOSS DURING ENGINE OPERATION CAUSING POSSIBLE ENGINE FAILURE.

D. Check internal gearbox and master magnetic scavenge chip detectors for debris per AMM 72-01-00.

(1) Upon reinstallation, check for security by pulling "OUT" on each detector after it is latched and locked at alignment dot/hole.

_____ XXXXX (2) Record accomplishment for No. 1 Engine.

_____ XXXXX (3) Record accomplishment for No. 2 Engine.

_____ XXXXX (4) Record accomplishment for No. 3 Engine.

NOTE: If debris is found, follow procedures for engine oil monitoring (Ref. GMM CH 3).

_____ XXXXX E. Check for the presence, condition and installation of the fan tethering kit (located in the cockpit crew coat closet). If any part of the kit is missing, "N/A" sign-offs in Step 2.F. and 12.C.. Place missing part(s) on order using MCI and fax page(s) containing step 2.F. to Powerplant Engineering (FAX# 317-282-5709).

NOTE: A complete tethering kit P/N TZ5-0904-021 contains:
Six (6) looped straps P/N TZ5-0904-105.
Two (2) #1 and #3 engine straps P/N TZ5-0904-101.
One (1) #2 engine strap P/N TZ5-0904-103.
One (1) Warning placard P/N TZ5-0904-011.
One (1) Stowage bag P/N TZ5-0916-109.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

F. Open and lockout Engine Circuit Breakers; Install Tethering on LP Fan assembly per AMM 71-00-07.

(1) Open and lockout the following circuit breakers for the applicable engine:

(a) CB-1: F13 (#1 ENG), F14 (#2 ENG), F15 (#3 ENG).

(b) CB-3: N6 (#1 ENG), N12 (#2 ENG), N18 (#3 ENG).

_____ XXXXX (2) Record accomplishment for No. 1 Engine.

_____ XXXXX (3) Record accomplishment for No. 2 Engine.

_____ XXXXX (4) Record accomplishment for No. 3 Engine.

NOTE: N/A Step 2. F. sign-offs if Aircraft scheduled ground time is less than 14 hours.

3. APU TASKS.

_____ XXXXX A. Check APU oil and service as necessary (Ref. Figure 1). Record APU Oil adds to the applicable oil add block in Logbook and AMERICA (ATAML). If AMERICA access is not available, contact Maintenance Control to record APU Oil add data.

| NOTE: Use only 2380 Oil to service APU.

(1) APU Qty. added _____ Quarts.

_____ XXXXX B. Check APU generator and service as necessary (Ref. Figure 2). If servicing is required, record Oil adds in Logbook.

(1) APU Generator Qty. added _____ Quarts.

4. EXTERIOR GVI WALK-AROUND TASKS.

A. Preparation Tasks

WARNING: ENSURE TRAVEL AREAS OF ALL FLIGHT CONTROL SURFACES ARE CLEAR OF PERSONNEL AND EQUIPMENT PRIOR TO APPLYING HYDRAULICS.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

WARNING: PRIMARY FLIGHT SURFACES WILL MOVE TO THE LAST
SELECTED TRIM POSITION WHEN A HYDRAULIC SYSTEM IS
ENERGIZED.

_____ XXXXX (1) Pressurize all four (4) hydraulic systems using ATM's
and PTU's (Ref. AMM 29-11-00). Lower flaps and
maintain hydraulic pressure during exterior General
Visual Inspection (GVI) walk-around.

_____ XXXXX (2) Actuate spoilers and brakes through several cycles.

_____ XXXXX (3) Check hydraulic quantity and pressure in flight deck.
Verify minimum of 2900 PSI on all hydraulic systems.

NOTE: Systems A and D pressure will be below normal
due to mechanical loss through PTU operation.
With flow demand less than 3.5 gpm system
pressure fluctuations in range of 2200 to
3500 PSI may exist and is normal.

_____ XXXXX (4) Service hydraulics per instructions mounted between
hydraulic reservoirs on each Hydraulic Service Center
(HSC) sidewall. Adding hydraulic fluid requires a
logbook entry containing system and quantity added.

B. Perform the following GVI walk-around checks and
additionally looking for obvious fluid leaks, damage,
looseness, and foreign objects (Ref. Figure 3).

_____ XXXXX (1) Forward Fuselage.

(a) Check general condition of skin, doors, windows
and attachments for security and obvious damage
including the following items:

1) Pitot/static probes (pay particular attention
to structure around probes for obvious
miss-alignment or deformation), antennas,
temperature probes, and angle of attack
sensors.

(b) Nose Landing Gear (NLG) area including wheel well,
gear assembly, and doors.

1) Check for proper strut extension.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

2) NLG tires and wheels for wear, cuts, and abnormalities (Ref. AMM 32-41-00).

(c) Check that static ports are clear.

(d) Fuselage exterior including: cargo, galley, and passenger doors as well as all Environmental Control System (ECS) inlet and exhaust areas.

(e) Cabin safety valves.

(f) Oxygen thermal discharge indicator.

_____ XXXXX (2) Right wing.

(a) Leading edge (root to tip) including slats.

(b) Lower surface.

(c) Trailing edge including: ailerons, spoilers, flaps, static dischargers, and fuel jettison nozzles.

_____ XXXXX (3) Right side middle fuselage including right Main Landing Gear (MLG) area.

(a) Open both MLG doors with safety handles locked down.

(b) Right MLG wheel well area including: gear assembly, brakes, and doors.

1) Check for proper strut extension.

2) MLG tires and wheels for wear, cuts, and abnormalities (Ref. AMM 32-41-00).

(c) HSC and RAT doors.

1) Verify the hydraulic filter warning lights are "OFF".

_____ XXXXX (4) Aft fuselage exterior including: APU static port, cargo and passenger doors, and antennas.

_____ XXXXX (5) Empennage including: airgate fairing, horizontal

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

stabilizer (STAB), elevators, vertical fin, rudder, and static dischargers.

_____ XXXXX (6) Left side middle fuselage including left MLG area.

(a) Left MLG wheel well area including: gear assembly, brakes, and doors.

1) Check for proper strut extension.

2) MLG tires and wheels for wear, cuts, and abnormalities (Ref. AMM 32-41-00).

_____ XXXXX (7) Left wing.

(a) Leading edge (root to tip) including slats.

(b) Lower surface.

(c) Trailing edge including: ailerons, spoilers, flaps, static dischargers, and fuel jettison nozzles.

WARNING: DO NOT LOOK DIRECTLY AT TAXI AND LANDING LIGHTS.

_____ XXXXX (8) Check all exterior lights and replace bulbs as necessary (Ref. Figure 4)

WARNING: MLG DOORS CLOSE RAPIDLY WHEN HYDRAULICALLY POWERED.

_____ XXXXX (9) Close MLG wheel well doors, retract flaps and turn off hydraulics.

5. LANDING GEAR TASKS.

WARNING: FAILURE TO COMPLY WITH SERVICING REQUIREMENTS OR TIRE REPLACEMENT REQUIREMENTS DUE TO LOW PRESSURE AS DETAILED IN AMM 12-14-01/301 AND AMM 32-41-01/601 COULD RESULT IN INJURY TO PERSONS AND/OR SEVERE DAMAGE TO AIRCRAFT.

CAUTION: SERVICE TIRES USING NITROGEN ONLY (AD 87-08-09).

A. Landing Gear Tire Pressure Check and Service to Full.

CAUTION: MAKE SURE THE DIRECT READING GAUGE IS CORRECTLY

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

CALIBRATED AND HAS AN APPROVED DIAL. IF THE GAUGE IS NOT ACCURATE, YOU CAN INFLATE THE TIRES TO AN INCORRECT PRESSURE. THIS CAN CAUSE DAMAGE TO THE TIRES.

_____ XXXXX (1) Record the condition of the tires at the time of check.

NOTE: It is preferred to perform the check when the tires are cool. If not, the warm tire pressure check will be required (Ref. AMM 12-14-01/301).

NOTE: Tires are cool when they are at ambient temperature or after two hours has expired since the airplane landed (provided the tires have not been in direct sunlight).

(a) Tire Condition at Time of Check (circle one):

Cool Warm

_____ XXXXX (2) Use a calibrated gauge to measure the tire pressures (AMM 12-14-01/301). Record preadjusted pressures below and in aircraft logbook (use ATA System/Subsystem code 1232). Logbook entry should specify if tire condition was "Warm" or "Cool".

(a) Nose Left _____ Right _____

NOTE: Optimal Pressure Range for a "Cool" Nose Landing Gear tire is 180 PSI +0/-5.

(b) 1F _____ 2F _____ 3F _____ 4F _____

1R _____ 2R _____ 3R _____ 4R _____

NOTE: Optimal Pressure Range for a "Cool" Main Landing Gear tire is 205 PSI +0/-5.

_____ XXXXX (3) If "Warm" was circled in step 5.A.(1)(a) perform a warm tire check per AMM 12-14-01/301.

NOTE: N/A this step if "Cool" was circled in step 5.A.(1)(a).

_____ XXXXX (4) Do these steps for tires which have tire pressures below the optimal pressure:

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

NOTE: N/A this step if "Warm" was circled in step 5.A.(1)(a).

(a) Nose Gear Tire Procedures

NOTE: If tire pressure for a nose gear tire is between 175 - 180 PSI, it is in the optimal pressure range and no servicing is required.

- 1) If tire pressure for a nose gear tire is between 145 - 175 PSI, service the tire to 180 PSI per AMM 32-41-01/601.
- 2) If a Nose gear tire is found to have 144 PSI or less, replace the affected tire as per AMM 32-42-01/401.
- 3) If a Nose gear tire has been rolled while flat or seriously low (less than 120 PSI), the mating tire on the same axle must also be changed. If a second tire is unavailable, its change may be placed on maintenance carryover and deferred to the next Class I or II station where parts, ground time and manpower are available.

(b) Main Gear Tire Procedures

NOTE: If tire pressure for a main gear tire is between 200 - 205 PSI, it is in the optimal pressure range and no servicing is required.

- 1) If tire pressure for a main gear tire is between 165 - 200 PSI, service the tire to 205 PSI limit per AMM 32-41-01/601.
- 2) If a Main gear tire is found to have 164 PSI or less, replace the affected tire as per AMM 32-41-01/401.
- 3) If a Main gear tire has been rolled while flat or seriously low (less than 140 PSI), the mating tire on the same axle must also be changed. If a second tire is unavailable, its change may be placed on maintenance carryover and deferred to

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

the next Class I or II station where parts, ground time and manpower are available.

(c) Other Procedures

- 1) If diffusion through tire wall or other causes result in repetitive low tire pressure, the following check may be made to determine tire serviceability:
 - a) Inflate Main gear tire to 220 PSI or a Nose gear tire to 195 PSI. If pressure loss exceeds 10 PSI within one hour, the tire must be changed.
- 2) If inspection shows that a pressure loss was due to the melting or partial melting (extrusion) of the wheel thermal fuse, the tire should be removed from service. Also, all other Main gear wheels should be checked for evidence of melted, extruded, or leaking thermal fuses, especially at the wheel positions with hot brakes.
- 3) If inspection shows that a wheel thermal fuse is partially melted (extruded) but not leaking, the tire should be placed on maintenance carryover and checked for leakage prior to each flight until the tire is removed from service and replaced.
- 4) If a tire has been rolled flat, or has been removed due to an overheated wheel thermal fuse, the removal reason should be tagged to the wheel and the wheel should be inspected in accordance with the wheel vendor's service instructions.

_____ XXXXX B. Visually check brake wear pins (Ref. Figure 5).

- (1) Ensure "B" system hydraulics is pressurized (Ref. AMM 29-11-00). Set the parking brake by actuating the brake pedals several times and hold. Pull the parking brake lever and verify that the park brake light is on.
- (2) Measure MLG brake wear indicator dimension "L" wear indicator pin locations (2 per brake unit).

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

Replacement of the brake must occur if the end of the wear pin indicator is flush or below the grommet. If any wear pin measures 1/8 inch or less, contact Maintenance Control and provide them with the aircraft tail number, brake location and wear pin measurement.

_____ XXXXX C. For all three landing gear shock struts, clean exposed chrome and wiper ring recesses with MIL-H-5606 oil. Wipe dry with a clean rag.

6. AIR TURBINE MOTOR (ATM) OIL AND FUEL SUMP TASKS.

A. Check left and right ATM oil quantity (Ref. Figure 6) and service with 2380. Record servicing and quantity in logbook.

_____ XXXXX (1) Left ATM Qty added____Quarts.

_____ XXXXX (2) Right ATM Qty added____Quarts.

_____ XXXXX B. Drain at least one pint of fuel (or until clean bright fuel is obtained) from the following fuel tank sumps: 2L/2R outboard (1 each), 2L/2R inboard (2 each), 1/3 (2 each). For aircraft with center fuel tanks, 1A/3A (1 each).

7. CARGO COMPARTMENT TASKS.

A. Check all cargo compartments and doors for the following and repair before next flight.

(1) Presence and security of blow-out panels (Ref. AMM 25-51-13 and 14). Ensure that all required netting is present in all cargo pits, include transverse cargo nets. Check for condition and installation.

(2) Visually inspect floors, ceiling liners, and wall panels for security and proper fire containment sealing. Repair damaged seams with fire retardant tape.

(3) Clean doorsill area including seal and drain holes.

(4) Visually inspect cargo door seals for wear and condition. Repair or replace as necessary.

NOTE: October 15 through April 15 only, spray all cargo

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

door seals, hook receptacles and latching roller guides with DC316.

(5) Check doors for operation. Close doors and ensure green door lock light is "ON".

_____ XXXXX (6) Record accomplishment for C1A Cargo Compartment.

_____ XXXXX (7) Record accomplishment for C2 Cargo Compartment.

_____ XXXXX (8) Record accomplishment for C3 Cargo Compartment.

| _____ XXXXX B. Check Fly-Away Kit (FAK) in forward cargo compartment for broken seal.

(1) If seal is broken, inspect and inventory FAK and tool kit.

NOTE: The FAK/tool box inventory list is found on the Maintenance and Engineering page of the Employee Website.

(a) Replenish engine and hydraulic oils per inventory list.

(b) Report other parts or tool shortages (particularly consumable items) to Maintenance Control and record shortages in logbook.

| _____ XXXXX C. Ensure the security of the FAK is accomplished as listed below prior to Aircraft Dispatch:

(1) Ensure that the FAK access door is secured/locked.

(2) Ensure FAK is secured to floor mounts by use of two Cargo Straps.

8. CABIN AND GALLEY TASKS.

NOTE: If M-21 Next Insp./Expiration dates have less than ten days, replace unit. If unit is unavailable, notify Maintenance Control. M-21 Next Insp./Expiration dates indicating only month and year expire on the last day of that month at midnight.

_____ XXXXX A. Perform a GVI inspection of the cabin and galleys and check

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

for the following.

- (1) Missing or illegible placards and obvious items that would contribute to unsafe conditions for passengers and flight crew.
- (2) Check for evidence of potable water leakage in and around galley areas.
- (3) Check cabin and galleys for cleanliness. Notify station operations if cleaning is required.
- (4) Check galley oven racks and floors for cleanliness and flammable materials such as grease, etc. Notify station operations if ovens require cleaning.

_____ XXXXX B. Check flight attendant seat belts, and harnesses for condition, wear, and fraying.

_____ XXXXX C. Check contents of seat belt extension bag located in first or second overhead bin on forward left hand side for good working condition, wear, and fraying.

(1) 12 Seat Belt Extensions CCN 2505496.

(2) 4 "OUT OF SERVICE" seat wraps CCN 2505464.

_____ XXXXX D. Check operation of retractable galley cart hold-downs at doors 2L and 2R (1 each) and clean as required .

_____ XXXXX E. Test galley smoke detection and duct overheat system per AMM 26-15-00.

_____ XXXXX F. Check for the condition, security, and presence of all emergency equipment in the cabin and galleys. (Ref. Emergency Equipment Location (EEL) placard).

NOTE: If a portable oxygen bottle requires servicing, and it has been 5 or more years since last hydrostatic test, the bottle must be replaced and sent out for hydrostatic testing.

G. Perform a detailed inspection of the following emergency equipment (Ref. EEL placard).

_____ XXXXX (1) Check first aid kits for condition of seals, M-21 tag

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

and security. If less than 10 days are remaining to expiration date or if seal is missing or broken, replace kit if available. If kit is not available consult MEL for dispatch relief.

- _____ XXXXX (2) Check Next Insp./Expiration dates on slide/raft M-21 tags.
- _____ XXXXX (3) Check evacuation slide pressure per (Figure 8).
- (4) Check Enhanced Emergency Medical Kit (EEMK), Automatic External Defibrillator (AED), Go Kit, and Companion Kit as follows:
- (a) Check EEMK, AED, Go Kit, and Companion Kit M-21 tags.
- (b) If the green seal is missing or broken, replace kit.
- 1) If kit is unavailable consult the MEL for possible dispatch relief.
- (c) Ensure AED is installed in locking bracket and the BIT indicator shows alternating square and hourglass.
- NOTE: Blinking red X, solid red X or chirping signifies an unserviceable AED.
- _____ XXXXX (d) Record accomplishment for EEMK.
- _____ XXXXX (e) Record accomplishment for AED.
- _____ XXXXX (f) Record accomplishment for Go Kit.
- _____ XXXXX (g) Record accomplishment for Companion Kit.
- _____ XXXXX (7) Check Protective Breathing Equipment (PBE) as follows.
- (a) Check PBE M-21 tags.
- (b) If one red rope type seal is broken, replace seal P/N 6630000-1 CCN 9100786. If both seals are broken or missing, examine pouch. If pouch is spongy or humidity indicator is pink, open a MCI

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

to remove PBE within 36 calendar hours from discovery.

_____ XXXXX (8) Check Flashlights to ensure LED indicator blinks at least once every 10 seconds, and for presence of "Emergency Use Only" plastic shields. (Ref. Placard on back of Flight Compartment Door for Emergency Flashlight locations).

H. Check emergency egress lighting system.

_____ XXXXX (1) Check all emergency self-illuminating signs and markings for legibility and condition.

_____ XXXXX (2) Check path lighting for exposed wires, missing track covers, etc. and repair as necessary.

_____ XXXXX (3) Perform a system operational test as follows:

(a) Verify that all emergency power pack amber charging lights are off or cycling.

(b) Verify "NO SMOKING" lights are off.

(c) On eyebrow panel, switch emergency lighting to "ON" and verify "UNARM" light remains on. Verify emergency lights including floor track lights and exit identifiers are on.

(d) Check operation of emergency exit lights at escape hatch in flight deck as well as inside and outside cabin doors.

(e) Switch emergency lighting to "OFF" and verify emergency lights go off while "UNARM" light remains on.

_____ XXXXX (4) Test evacuation signal panels: 1 in flight deck, 6 in cabin.

(a) Press command EVAC switch on EVAC signal panel in flight deck.

(b) Horn - Sounds and light - Flashes at each EVAC panel.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

(c) Press horn shutoff switch at each panel to terminate horn.

(d) Switch command EVAC in flight deck to off.

I. Check Passenger Address (PA) and interphone systems.

XXXXX (1) Check the condition of the flight crew and attendant communication equipment.

XXXXX (2) Check PA using flight deck microphone with any audio panel and volume control rotary switch on pilot's overhead panel. Check PA from cabin using microphones at each passenger door. Ensure all PA announcements are heard from cabin speakers.

NOTE: Flight deck PA announcements override cabin stations.

XXXXX (3) Check cabin and galley interphone by communicating between flight deck and other station handsets selected on the pilot's overhead panel. Unlatch master radio switches.

9. LAVATORY TASKS.

XXXXX A. Check waste bins and ashtrays are empty and covers are closed tightly with removable ashtray receivers installed on lavatory door aisle side.

XXXXX B. Verify the following placards are properly installed.

(1) "NO SMOKING" (CCN 1104176) - One placard on each door facing the aisle when closed. (AD 74-08-09)

(2) "FEDERAL LAW PROVIDES FOR PENALTY OF UP TO \$2,000 FOR TAMPERING WITH THE SMOKE DETECTOR INSTALLED IN THIS LAVATORY" (CCN 1104186) - One on each side of lavatory door.

XXXXX C. Check lavatories for cleanliness (including odor). Notify station operations if cleaning is required.

XXXXX D. Check lavatory paper and linen waste receptacle enclosure access doors and disposal doors for proper operation, fit, sealing, and latching.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

- _____ XXXXX E. Check for "BLUE WATER" leaks and operation of toilets.
- _____ XXXXX F. Close and latch doors to check compartment lights.
- _____ XXXXX G. Check waste bins and under sink compartment to ensure there is no water in compartment. Check that lines, fittings and components externally and in sink compartment are hooked up and in serviceable condition. Check that sinks drain.
- _____ XXXXX H. Check lavatory fire extinguisher.
 - (1) If any of the four patches on temperature indicator inside sink cabinet above trash receptacle changed to black, remove unit from towel chute and weigh (Ref. label on unit for total weight). If weight is 15 grams or more below labeled weight, replace unit and temperature indicator. If weight is less than 15 grams below labeled weight, replace temperature indicator and reinstall unit.
 - (2) Inspect unit discharge tubes for missing outlet caps, damage, or distortion and replace unit as required.
- _____ XXXXX I. Test lavatory smoke detectors as follows: Check that green light on detector is on. Push self test on detector - Detector red light and light outside compartment are on while alarm signal is heard. Push interrupt switch to terminate that detector's test.

10. FORWARD ELECTRONIC SERVICE CENTER (FESC) TASKS.

- _____ XXXXX A. Check storage box at FS 225 in FESC for 3 headsets with cables (2 each with 50ft cord and 1 each with 100ft cord).
- _____ XXXXX B. Verify that thrust reverser lockout kit is stowed in storage pouch adjacent to gear pins.
- _____ XXXXX C. Windshield washer reservoir in the FESC - Service to full.

11. FLIGHT DECK TASKS.

- A. Perform a GVI inspection of flight deck.
 - _____ XXXXX (1) Check for missing or illegible placards and obvious items that would contribute to unsafe conditions for

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

flight crew.

_____ XXXXX (2) Condition, security, and presence of all emergency equipment in the flight deck. (Ref. EEL placard).

(a) Check PBE in flight deck as follows.

1) Check PBE M-21 Tags.

2) If one red rope type seal is broken, replace seal P/N 6630000-1 CCN 9100786. If both seals are broken or missing, examine pouch. If pouch is spongy or humidity indicator is pink, remove PBE within 36 calendar hours from discovery.

_____ XXXXX (3) Check flight deck for certificates and licenses (Ref. Figure 9). Replace as necessary.

_____ XXXXX (4) Check flight deck for cleanliness. Notify station operations if cleaning is required.

(a) Ensure windshields are clean.

WARNING: DO NOT TIGHTEN OR LOOSEN OXYGEN FITTINGS WHILE SYSTEM IS PRESSURIZED.

_____ XXXXX B. Check crew oxygen system pressure per (Figure 7). A crew oxygen cylinder must be replaced and sent out for hydrostatic testing if it requires servicing and it has been 3 or more years since the last hydrostatic test.

_____ XXXXX C. Check flight crew and observer oxygen masks, seat belts, and harnesses for condition, wear, and fraying.

_____ XXXXX D. HF Transceiver Check.

WARNING: DO NOT KEY HF TRANSMITTER WHEN ANY FUELING OR DEFUELING OPERATION IS TAKING PLACE WITHIN 100 FEET OF AIRCRAFT.

CAUTION: DO NOT OPERATE MORE THAN ONE HF TRANSCEIVER AT A TIME

(1) Latch in master radio switches and select "USB" on HF-1 radio. Select an authorized test frequency and rotate RF sense knob fully clockwise. Verify HF audio

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

is heard.

- (2) Select unused frequency and initiate tuning by keying and releasing selected microphone on audio panel. Verify 1000hz tone is heard for up to 15 seconds.
- (3) Key selected microphone while speaking into it. Verify you are heard over the speaker. Turn off HF-1.
- (4) Repeat steps for HF-2.

_____ XXXXX E. Test stall warning on the FCES panel.

- (1) Latch in stall warn 1 and 2 - "OFF" legends off and unlatch DLC/AUTOSPLR #1 and #2 switchlights "OFF" legends on.
- (2) Unlatch stall warn 2 - "OFF" legend on.
- (3) Depress and hold stall warn test for five seconds - Verify control columns shake and stall warn 1 "FAIL" legend off.
- (4) Unlatch stall warn 1 - "OFF" legend on.
- (5) Latch in stall warn 2 - "OFF" legend off.
- (6) Depress and hold stall warn "TEST" for five seconds - Verify control columns shake and stall warn 2 "FAIL" legend off.
- (7) Latch in stall warn 1 - "OFF" legend off.
- (8) Depress and hold stall warn "TEST" for five seconds - Verify control columns shake and both "FAIL" legends off.

_____ XXXXX F. Check flight deck door for proper operation. Door must be unlocked from the cabin with required key. Depress button on center console to unlock door from flight deck.

_____ XXXXX G. Check F/E desk for 2 spare aircraft logbooks (M-10, F40016) and spare sanicom wipes. Ensure current and last completed logbook are onboard. Remove all other completed logbooks older than 15 days.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

- _____ XXXXX H. Check spare lamp holder for contents.
- _____ XXXXX I. Latch in test "ON" switches on F/E left hand lower panel and first officer's overhead panel. Verify all warning lights are illuminated. Relamp as necessary. Logbook entry required when lights are relamped.
- _____ XXXXX J. Bus volts switch to "BAT" position and verify needle oscillation in DC volts and DC amps indicators.
- _____ XXXXX K. Check contents of pouch attached to MEL Manual and comply with placarded instructions inside.

12. FINAL TASKS.

- _____ XXXXX A. Visually check that all service doors and access panels are closed, cargo door green lock lights are on, and manual "T" handle on galley door is stowed flush.

(1) Check that F/E panel door warning lights are off.

- _____ XXXXX B. Check for external leaks around potable water service panel and lavatory service panels after servicing.

(1) Pressurize potable water system. If 10 PSIG cannot be exceeded, check cabin and galley water sources for leakage.

- C. Close engine circuit breakers and remove tethering from LP Fan assembly per AMM 71-00-07.

(1) Close the following circuit breakers for the applicable engine:

(a) CB-1: F13 (#1 ENG), F14 (#2 ENG), F15 (#3 ENG).

(b) CB-3: N6 (#1 ENG), N12 (#2 ENG), N18 (#3 ENG).

(2) Stow tethering in stowage bag and place bag in upper section of cockpit crew coat closet.

- _____ XXXXX (3) Record the accomplishment for No. 1 Engine.

- _____ XXXXX (4) Record the accomplishment for No. 2 Engine.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

-
- _____ XXXXX (5) Record the accomplishment for No. 3 Engine.
- NOTE: N/A Step 12. C. sign-offs if tethering was not installed in Step 2. F..
- _____ XXXXX D. Visually inspect the intakes and exhausts of engines and APU including S-duct.
- _____ XXXXX E. Visually check wing engine fan cowlings for security and proper installation. Check that thrust reverser locked indicator pins are recessed and blocker doors are lying flush.
- _____ XXXXX F. Perform wheel well fire test.
- (1) Position detection loop selector to 'BOTH'.
- (2) Press and release 'A' and 'B' test buttons individually.
- (a) Verify annunciator illuminates when pressed then extinguishes when released.
- (3) Press 'A' and 'B' test buttons simultaneously.
- (a) Verify bell sounds (press 'BELL CUTOUT' button on fire detection panel to silence bell). Verify that both 'A' and 'B' annunciators, both master fire warning lights on glareshield and 'WHEEL WELL FIRE' annunciator illuminate.
- (4) Release test buttons and verify all annunciators extinguish.
- _____ XXXXX G. Perform engine turbine cooling air test.
- (1) Simultaneously press 'A' and 'B' test switches.
- (a) Verify 'A' and 'B' test switches illuminate. Verify 1, 2 and 3 'OVHT' lights illuminate on test panel and 1, 2 and 3 'TURBINE AIR OVHT' lights on fwd caution and warning panel illuminate.
- (2) Release both test switches.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

(3) Press 'A' and 'B' test switches individually.

(a) Verify 'OVHT' and 'TURB AIR OVHT' lights remain out.

_____ XXXXX H. Perform nacelle pylon overheat test.

(1) Position detection selector switches to 'BOTH' position.

(2) Press test button.

(a) Verify all 'A' and 'B' annunciators on test panel and nacelle 1, 2 and 3 'OVHT' lights on the forward caution and warning panel illuminate.

(3) Release test button. Verify all annunciators extinguish.

_____ XXXXX I. Perform fire detection loop test.

(1) Position all detection switches to 'BOTH' position.

(2) Press and release 'A' and 'B' test buttons individually.

(a) Verify when 'A' button pressed 'A' annunciators illuminate. Verify when 'B' button pressed 'B' annunciators illuminate. Verify all annunciators extinguish when test buttons are released.

(3) Press 'A' and 'B' test buttons simultaneously.

(a) Verify bell sounds (press 'BELL CUTOFF' button to silence bell). Verify both master fire warning lights on glareshield, all three engines and APU fire handles and the 'FIRE DET LOOP' annunciator on the forward caution and warning panel illuminate.

(4) Release test buttons and verify all annunciators extinguish.

_____ XXXXX J. Perform fire extinguisher test.

(1) Press 'TEST' button.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

- (a) Verify all 'MAIN' and 'ALTN' lights illuminate on the test panel.
- (2) Press 'SHORT' button while holding 'TEST' button.
- (b) Verify all 'MAIN' and 'ALTN' lights extinguish.
- (3) Release 'SHORT' button. Verify all lights re-illuminate.
- (4) Release 'TEST' button. Verify all lights extinguish.

_____ XXXXX K. Latch in each fuel boost pump switchlight.

- (1) Check that fuel quantity is balanced in all tanks.
- (2) Verify 'LOW' light extinguishes and flow bar illuminates.
- (3) Unlatch switchlight. Verify that the flow bar extinguishes.

_____ XXXXX L. Perform anti-skid test.

- (1) Position brake selector switch (on pilot's center panel) to the normal SYS B position.
- (2) Release parking brake and latch in anti-skid switchlight.
 - (a) Verify that anti-skid switchlight 'ON' is illuminated.
- (3) Alternately depress the 'NORM' and 'ALT' test buttons.
 - (a) Verify all 'F' and 'R' lights illuminate during test.
- (4) Reset parking brake and unlatch anti-skid switchlight.
 - (a) Verify 'OFF' light is illuminated.

M. Perform the following flight control checks.

WARNING: ENSURE TRAVEL AREAS OF ALL FLIGHT CONTROL SURFACES

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

ARE CLEAR OF PERSONNEL AND EQUIPMENT PRIOR TO APPLYING HYDRAULICS.

WARNING: PRIMARY FLIGHT SURFACES WILL MOVE TO THE LAST SELECTED TRIM POSITION WHEN A HYDRAULIC SYSTEM IS ENERGIZED.

- _____ XXXXX (1) Pressurize all four (4) hydraulic systems.
- _____ XXXXX (2) Verify the following switchlights on the captain's overhead panel are latched in with 'OFF', 'FAIL', 'INOP' or 'PUSH' lights extinguished:
 - (a) Yaw SAS, pitch trim, mach trim, pitch and roll monitor, STAB shut down, aileron shut down, spoiler shut down and mach feel.
- _____ XXXXX (3) Verify all DLC/AUTO SPLR, stall warning, and ATS lights are unlatched and 'OFF' lights are illuminated.
- _____ XXXXX (4) With flaps retracted perform full cycle of the following flight controls. Verify that no 'OFF', 'FAIL', 'INOP', or 'PUSH' lights from the systems listed in Step 12. L. (2) (a) are illuminate during cycling.

NOTE: Check movement of flight controls to the indication given by the Surface Position Indicator (SPI).

 - (a) Cycle ailerons.
 - 1) Verify spoiler indices do not follow aileron inputs and that rudder deflects slightly.
 - (b) Cycle rudder.
 - (c) Cycle STAB.
 - (d) Cycle spoilers using speed brake lever. Verify all spoilers follow indices movement.
- _____ XXXXX (5) Extend flaps and verify the following:
 - (a) Spoiler 'PUSH' lights (on pilot's overhead panel) or 'ROLL SPEED BRAKE' lights (on forward caution

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

and warning panel) should not illuminate.

(b) Flap position indicator follows flap movement.

(c) Slat position indicator follows slat movement and all slat position lights illuminate.

_____ XXXXX (6) Cycle speed brake lever. Verify inbd 1 thru 4 spoilers follow indices movement and outbd 5 and 6 spoilers are down.

_____ XXXXX (7) Retract flaps and verify that flap and slat indicators follow flap and slat movement and all slat indicators extinguish.

_____ XXXXX (8) Move STAB using the STAB electric trim wheel on each yoke.

(a) Using SPI and trim wheel verify that STAB trims in both directions. Verify that no pitch trim 'FAIL' lights illuminate on captain's overhead panel.

_____ XXXXX (9) Remove hydraulic power.

_____ XXXXX N. Ensure that all circuit breakers located in the flight deck are placed in their normal configuration.

_____ XXXXX O. Check that 2 Each Attitude Director Indicator (ADI) and 1 Each standby horizons erect. Check that fail flags and inop lights are not visible.

_____ XXXXX P. Ensure the flight deck controls are properly positioned.

_____ XXXXX Q. Remove installed safety devices including static ground.

NOTE: Wheel chocks will be removed prior to pushback.

_____ XXXXX R. Ensure M-190, P/N B20058 "Maintenance In Progress" tag is stowed in the Flight Engineers desk.

NOTE: If tag is missing and a replacement is not available, create a MCI to have the tag replaced at the next maintenance opportunity where materials are available.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 590M9907 (continued)

MECH: INSP:

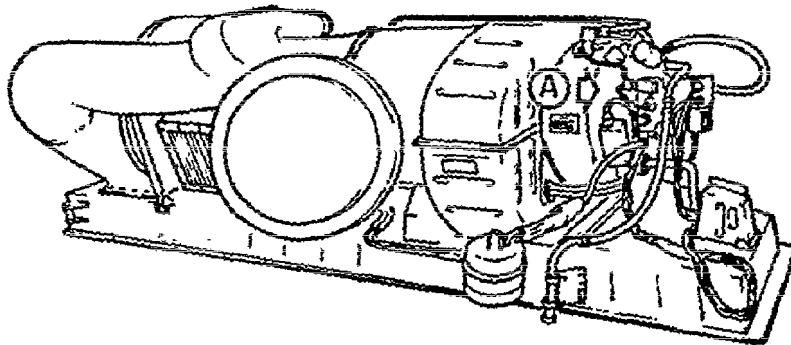
S. Aircraft Logbook.

_____ XXXXX (1) Review aircraft logbook for discrepancies.

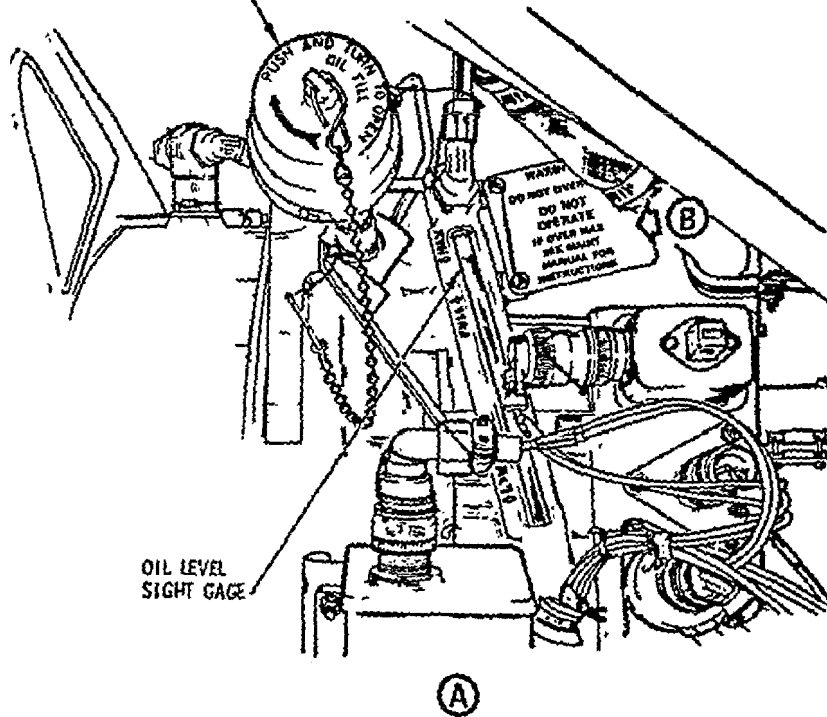
(a) Verify all logbook corrective actions are signed off.

_____ XXXXX (2) Ensure the Line Service Check entry has been made in logbook. Record log page number in area provided on page 1.

***** End Of Workcard *****



OIL PRESSURE FILL HOUSING

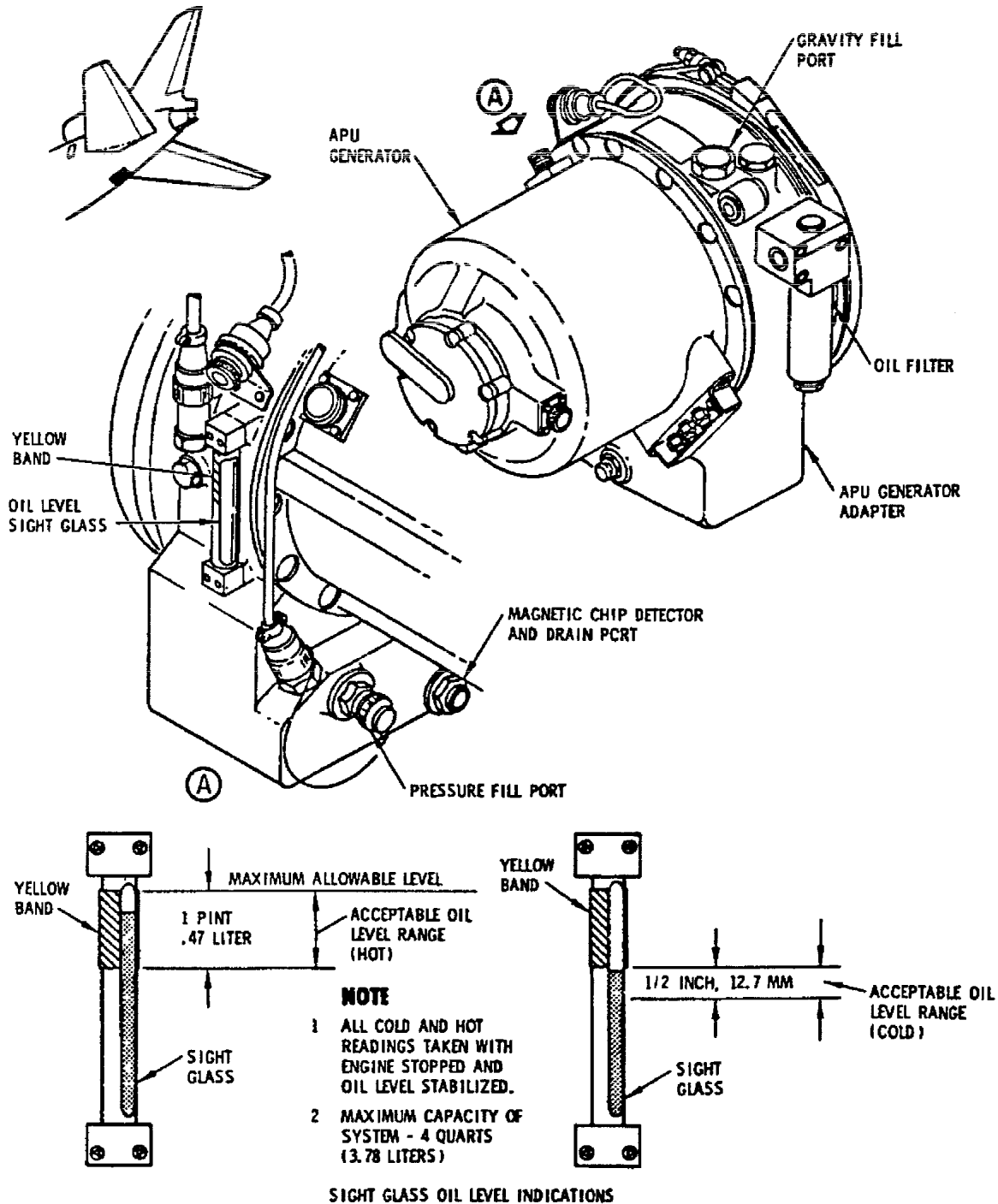


ⓐ **WARNING**
DO NOT OVERFILL
DO NOT
OPERATE
IF OVER MAX
SEE MAINT
MANUAL FOR
INSTRUCTIONS
ⓑ

ⓑ

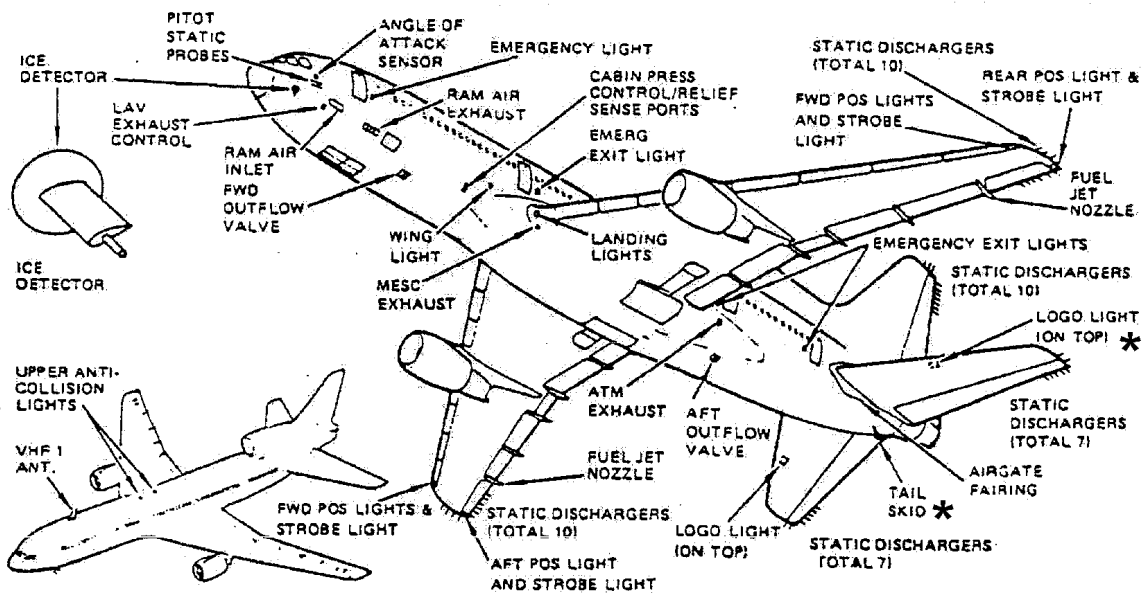
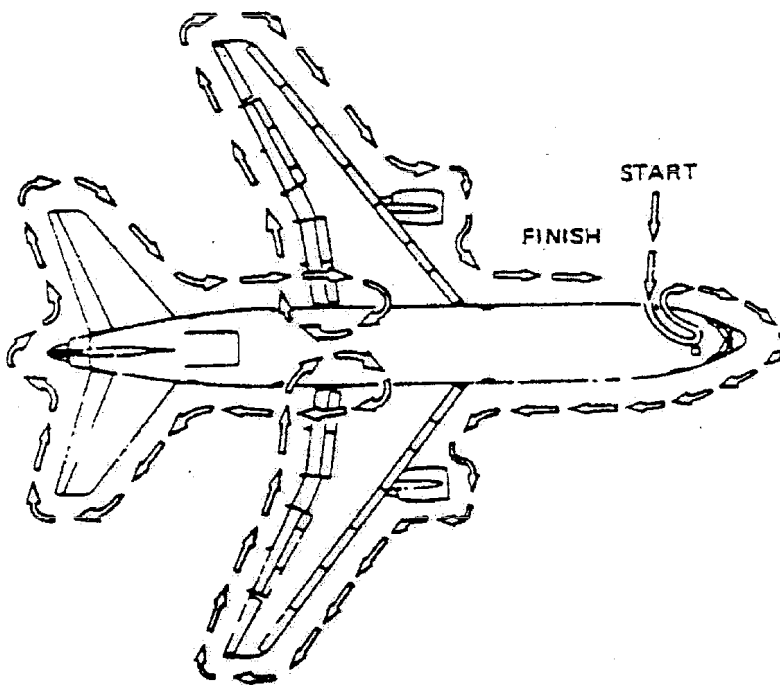
Oil Tank Fill Housing and Sight Gage

FIGURE 1



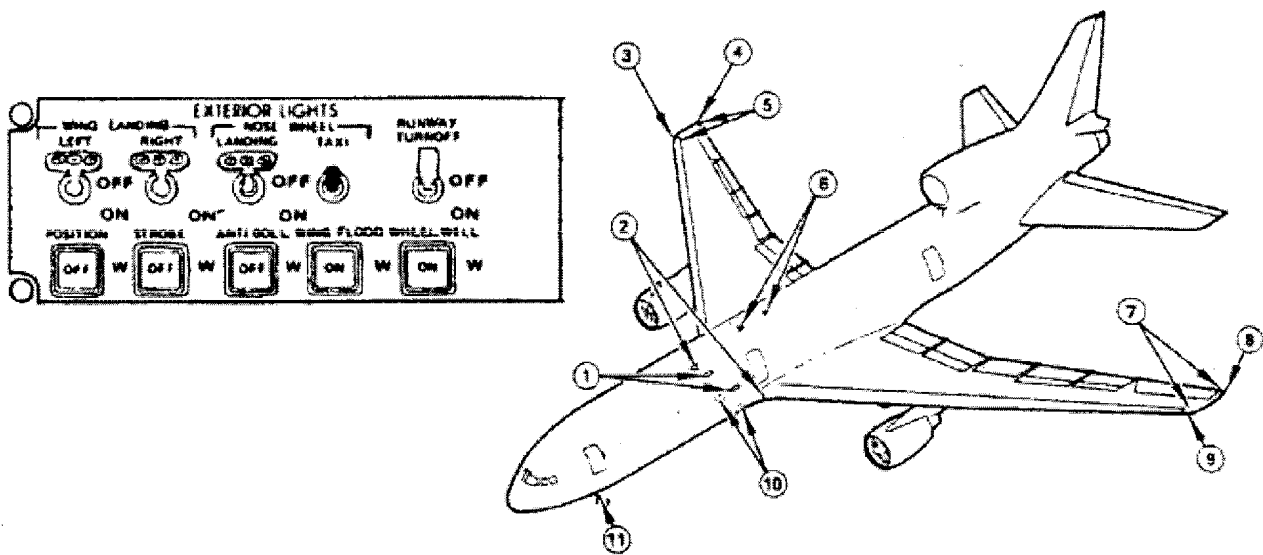
Servicing Points on APU Generator Assembly

FIGURE 2



*** NOT INSTALLED
ON ALL AIRCRAFT**

FIGURE 3



EXTERIOR LIGHTING

- | | |
|---|-------------------------------|
| 1. WING FLOODLIGHTS | 7. STROBE LTS, LH |
| 2. LANDING AND RUNWAY
TURNOFF LTS ASSY'S | 8. AFT POSITION LT, LH |
| 3. FWD POSITION LT, RH | 9. FWD POSITION LT, LH |
| 4. AFT POSITION LT, RH | 10. LOWER ANTICOLLISION LTS |
| 5. STROBE LTS, RH | 11. NOSE LANDING AND TAXI LTS |
| 6. UPPER ANTICOLLISION LTS | |

FIGURE 4

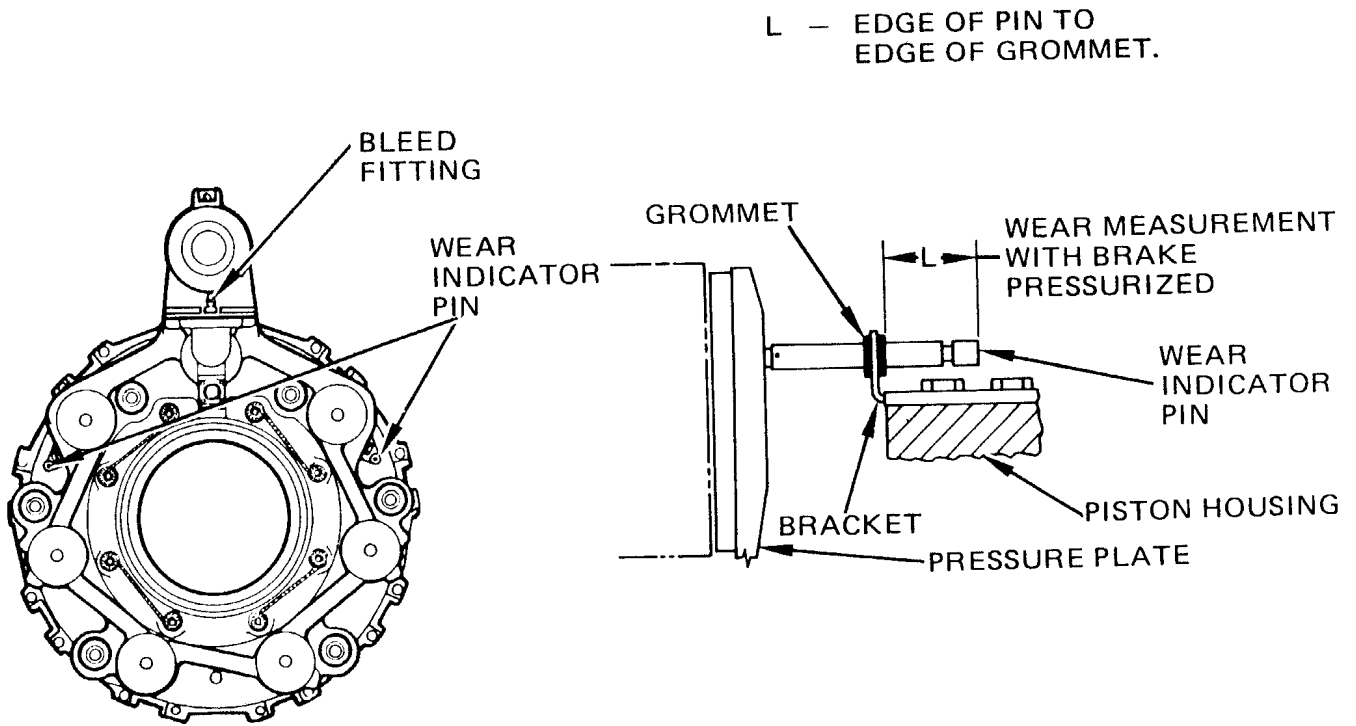
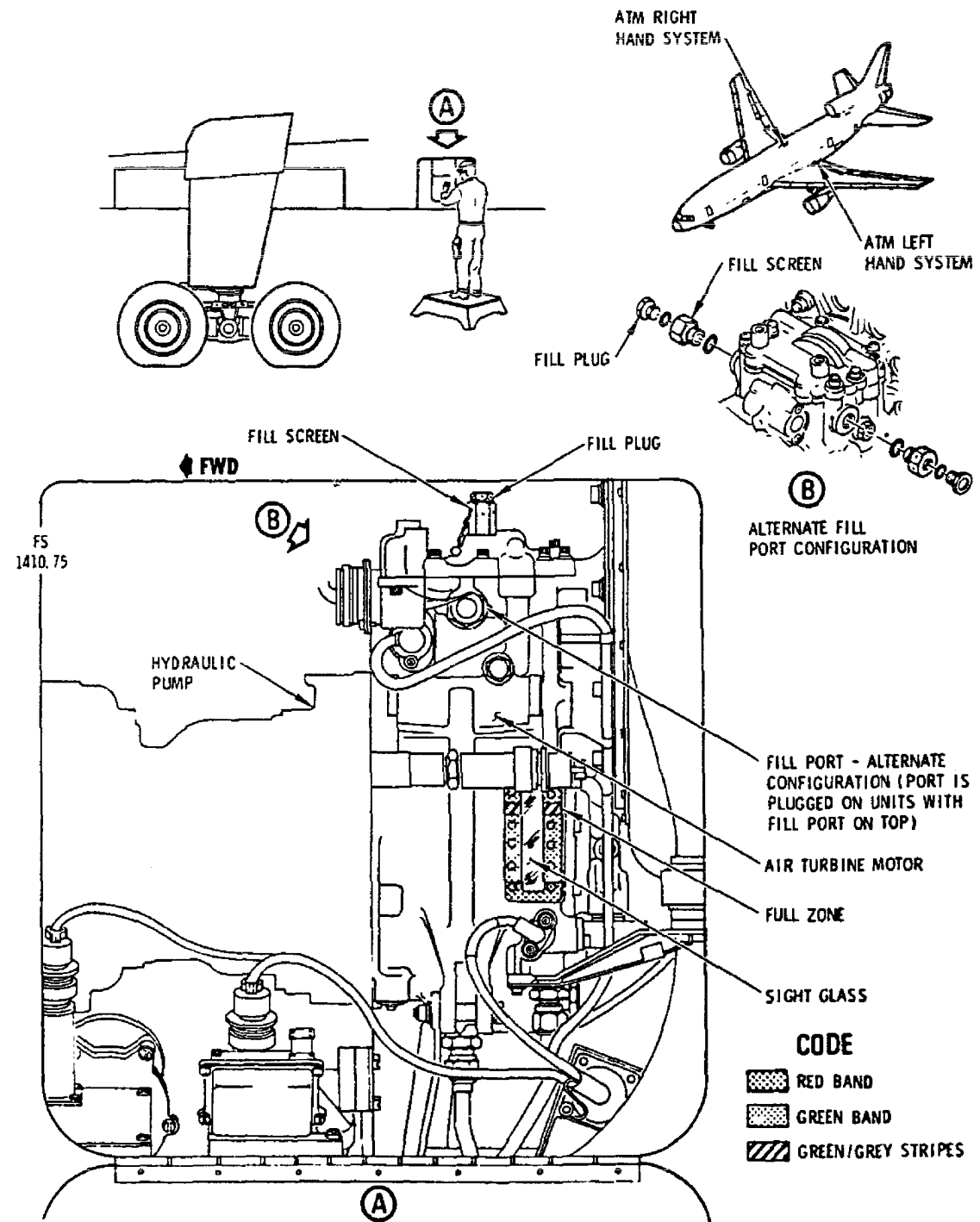


FIGURE 5



Air Turbine Motor (ATM) Oil Replenishing

FIGURE 6

OXYGEN SYSTEM MINIMUM DISPATCH PRESSURE

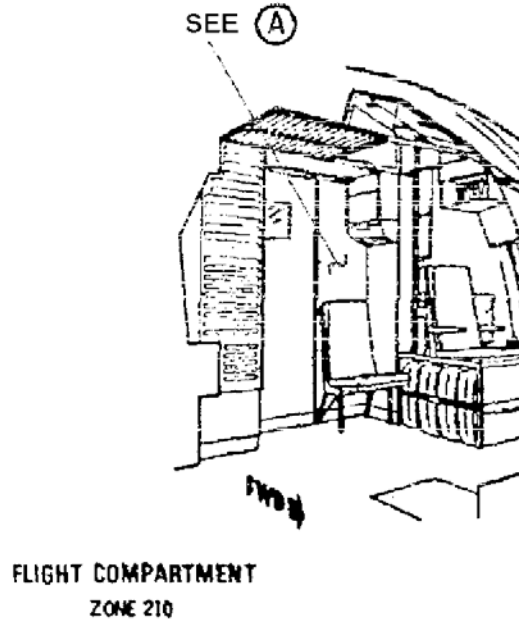
Cylinder Temperature		Minimum Cylinder Pressure (PSIG) For Flight Above 10,000 Ft	
°F	°C	Crew Fixed Cylinder (114 cu ft)	Crew Portable Cylinder (11 cu ft)
120	49	1375	1915
110	43	1350	1880
100	38	1325	1850
90	32	1300	1815
80	27	1275	1780
70	21	1250	1750
60	16	1225	1715
50	10	1200	1680
40	4.4	1175	1650
30	-1.1	1150	1615
20	-6.7	1125	1580
10	-12.2	1100	1545
0	-17.8	1075	1515
-10	-23.3	1050	1480

CHART IS FOR APPROXIMATELY 2 HOURS FOR 5 MEN

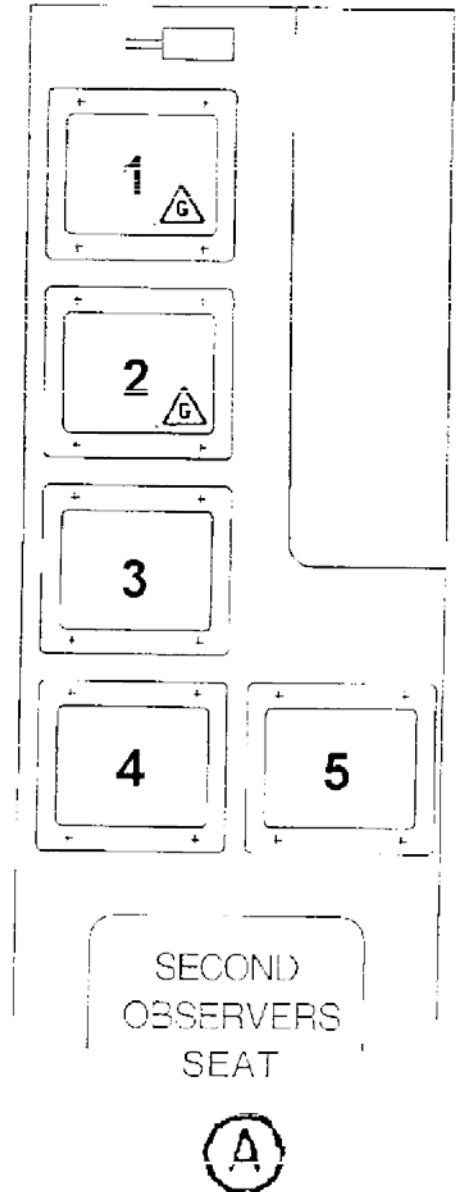
FIGURE 7


EVACUATION SLIDE INFLATION CYLINDER MINIMUM DISPATCH PRESSURE	
CYLINDER (Temperature in Fahrenheit)	ALL DOORS (PSIG)
-20	2075
0	2225
20	2415
40	2590
60	2760
70	2850
80	2935
100	3125
120	3285

FIGURE 8



1. Airworthiness Certificate
2. Aircraft Registration
3. Aircraft Radio License
4. IN state tax certificate (Not on all aircraft)
5. Certificate of Sanitary Construction



 Required by Government Regulations

Certificates and Licenses Locations

FIGURE 9