Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F - Fuel Metering Systems

Item 22. Repair engine fuel metering system components. (Level 2)

Item 23. **Inspect, check, service,** troubleshoot, **and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

Project 1A & 1B & 1C

<u>Purpose:</u> To acquaint the student with the proper procedures of inspecting, checking, servicing, and repairing fuel metering system components and systems.

References:

- (1) 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service and Parts Manual
- (3) Lycoming O-540 Engine Service Manual
- (4) Piper Colt Flight and Parts Manuals
- (5) Lycoming Direct Drive Overhaul Manual
- (6) AeroTrain AE-30-320 Operation Manual
- (7) O-320 Illustrated Parts Manual

Equipment and Tools Needed:

- (1) Piper Comanche 250 (PA 24)
- (2) Piper Colt (PA 22)
- (3) AeroTrain AE-30-320 O-320 Operational Training Aid
- (4) AMT Roll-Around Toolbox
- (5) Computer workstation with internet access

Supplies and Materials Needed:

1. None

Procedure:

Complete following procedure on the assigned project 1A or 1B or 1C

- (1) Inspect the Fuel Metering system on the assigned aircraft or Test Cell.
- (2) List all discrepancies found and recommend repairs. The Instructor will verify that all discrepancies have been identified and the recommended repairs are correct by initialing below. Discrepancies and Recommended Repairs OK blank______
- (3) Repair the Instructor assigned discrepancies.
- (4) Check the system for proper operation.

1. Complete maintenance record entries.

blank

Project 1A Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service,** troubleshoot, **and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service Manual
- (3) Piper Comanche 250 (PA-24) Parts Catalog
- (4) Lycoming O-540 Engine Service Manual

Project 1B Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service,** troubleshoot, **and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Colt (PA 22)
- (3) Piper Colt Flight and Parts Manuals
- (4) Lycoming Direct Drive Overhaul Manual

Project 1C Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service,** troubleshoot, **and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) AeroTrain AE-30-320 O-320 Operational Training Aid
- (3) AeroTrain AE-30-320 Operation Manual
- (4) O-320 Illustrated Parts Manual

Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F – Fuel Metering Systems

Item 21. Overhaul carburetor. (Level 2)

Item 22. Repair engine fuel metering system components. (Level 2)

Project 2A & 2B & 2C

<u>Purpose:</u> To acquaint the student with the proper procedures of repairing fuel metering system components and overhauling carburetors.

References:

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service and Parts Manual
- (3) Lycoming O-540 Engine Service Manual
- (4) Piper Colt Flight and Parts Manuals
- (5) Lycoming Direct Drive Overhaul Manual
- (6) AeroTrain AE-30-320 Operation Manual
- (7) O-320 Illustrated Parts Manual

Equipment and Tools Needed:

- (1) Piper Comanche 250 (PA 24)
- (2) Piper Colt (PA 22)
- (3) AeroTrain AE-30-320 O-320 Operational Training Aid
- (4) AMT Roll-Around Toolbox
- (5) Computer workstation with internet access

Supplies and Materials Needed:

(1) None

Procedure:

Complete following procedure on the assigned project 2A or 2B or 2C

- 1. Remove the carburetor from the assigned aircraft or Test Cell.
- 2. Disassemble and inspect the carburetor assigned in order to determine its airworthiness. On page 2 & 3, fill in all the requested information. ALSO SEE THE NOTES ON PAGE 3.
- 3. On page 3, fill in the chart with the indicated measurements.

4. On page 4, list <u>all parts (individually</u> by part number) which are normally replaced during overhaul and lay them out on the bench for the Instructor's inspection. The Instructor will verify that all parts are correctly identified by initialing below.

a) Overhaul Parts Identified and Laid Out blank_

- 5. On page 4, list all discrepancies found and recommend repairs. <u>Each</u> discrepancy found must be shown to the Instructor. This is for all damage found on items <u>not</u> normally replaced. The Instructor will verify that all discrepancies have been identified by initialing below.
 - a) Discrepancies and Recommended Repairs OK blank
- 6. Research AD Notes and list them on page 5. Comply with the applicable ones as much as possible. Sign off <u>all</u> applicable ones as part of your Logbook entry *as if you complied with them* (whether you complied with them or not).
- 7. Reassemble the carburetor using the original parts as required. The Instructor must witness and initial the following: Float Level Check and Float Drop Check and verify the completion by initialing below.
 - a) Float Level Check blank _____ Float Drop Check blank _____ Final Reassembly blank _____
- 8. Attach the Fuel Inlet Hose and fill the carburetor with fuel. Check to insure the Needle and Seat are functioning properly. Have the Instructor Initial below when the carburetor is full of fuel and Needle and Seat are functioning properly.

a) Needle and Seat Ops Check blank _____

- 9. Complete maintenance record entries.
- 10. Go to Project 3 with your carburetor.

Project 2A Item 21. **Overhaul carburetor**. (Level 2) & Item 22. **Repair engine fuel metering system components.** (Level 2)

- (1) 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service Manual
- (3) Piper Comanche 250 (PA-24) Parts Catalog
- (4) Lycoming O-540 Engine Service Manual

Project 2B Item 21. **Overhaul carburetor**. (Level 2) & Item 22. **Repair engine fuel metering system components.** (Level 2)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Colt (PA 22)
- (3) Piper Colt Flight and Parts Manuals
- (4) Lycoming Direct Drive Overhaul Manual

Project 2C Item 21. **Overhaul carburetor**. (Level 2) & Item 22. **Repair engine fuel metering system components.** (Level 2)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) AeroTrain AE-30-320 O-320 Operational Training Aid
- (3) AeroTrain AE-30-320 Operation Manual
- (4) O-320 Illustrated Parts Manual

CARBURETOR INFORMATION:

MAKE Marvel Schebler Aircraft Carburetors LLC

MODEL blank_____

PART # blank ______ SERIAL # blank ______

TYPE OF MIXTURE CONTROL blank _____

TYPE OF ACCELERATOR SYSTEM blank _____

TYPE OF POWER ENRICHMENT SYSTEM blank _____

REQUIRED FLOAT SETTING blank _____

TORQUES: BOWL COVER SCREW blank _____ FLOAT BRACKET SCREW

blank ____

THROTTLE LEVER CLAMP SCREW TORQUE blank_____

NOTES (EXCEPTIONS TO MANUFACTURER'S INSTRUCTIONS):

Don't remove the main venturi (only for this Lab).

Don't remove the throttle bushings (only for this Lab).

Don't remove the Accelerator Pump seal.

MEASUREMENTS:

ITEM	MEASUREMENT	CLEARANCE
Mixture Control Hole in T-body		
Mixture Control Valve (top)		
Accelerator Pump hole in Tbody		
Accelerator Pump Shaft		
Mixture Control Valve (bottom)		
Mixture Control Sleeve		
Float Shaft Bracket		
Float Shaft		

Float Lever Pivot	
Throttle Shaft Bushing I.D.	
Throttle Shaft	
Accelerator Pump Lever Holes	
Accelerator Pump Link	
Float Adjustment Tab	
Accelerator Pump Cylinder	
Throttle Stop Pad on T-body	

OVERHAUL PARTS NORMALLY REPLACED:

DISCREPANCIES AND RECOMMENDED REPAIRS:

ADD NOTES:

Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F - Fuel Metering Systems

Item 22. Repair engine fuel metering system components. (Level 2)

Item 23. Inspect, check, service, troubleshoot, and repair reciprocating and turbine engine fuel metering systems. (Level 3)

Project 3A & 3B & 3C

<u>Purpose:</u> To acquaint the student with the proper procedures of checking, servicing, troubleshooting, and repairing fuel metering system components.

References:

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service and Parts Manual
- (3) Lycoming O-540 Engine Service Manual
- (4) Piper Colt Flight and Parts Manuals
- (5) Lycoming Direct Drive Overhaul Manual
- (6) AeroTrain AE-30-320 Operation Manual
- (7) O-320 Illustrated Parts Manual

Equipment and Tools Needed:

- (1) Piper Comanche 250 (PA 24)
- (2) Piper Colt (PA 22)
- (3) AeroTrain AE-30-320 O-320 Operational Training Aid
- (4) AMT Roll-Around Toolbox
- (5) Computer workstation with internet access

Supplies and Materials Needed:

1. None

Procedure:

Complete following procedure on the assigned project 3A or 3B or 3C

- (1) Install your carburetor from Project 2 back on the assigned aircraft or Test Cell.
- (2) On the back of this sheet, write an Adjustment Checklist for Step #2 below. Have the Instructor review your checklist BEFORE proceeding to Step #3.

a.OK to proceed blank_

- (3) Run the assigned engine and properly adjust the Idle Mixture and Idle Speed and have the Instructor Initial below when accomplished:
 - a. Idle Mixture Check & Adjustment blank _____
 - b.Idle Speed Check & Adjustment blank _____

- (4) Fill in the information requested below:
 - a. Assigned engine: Make blank _____ Model blank _____ Ser. No. blank _____
 - b. Carburetor: Make blank _____ Model blank _____ Part No. blank _____
 - a.Ser. No. blank ______ c. Proper Idle Speed: blank _____ RPM

C. Floper fulle Speed. Drank _____ KFW

- (5) Below and on the following page, troubleshoot the indicated problem for a Float Carburetor. Limit your answers to solutions involving only a Float Carburetor.
- (6) Complete appropriate maintenance record entries.

Project 3A Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. Inspect, **check, service, troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Comanche 250 (PA-24) Service Manual
- (3) Piper Comanche 250 (PA-24) Parts Catalog
- (4) Lycoming O-540 Engine Service Manual

Project 3B Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. Inspect, **check, service, troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Piper Colt (PA 22)
- (3) Piper Colt Flight and Parts Manuals
- (4) Lycoming Direct Drive Overhaul Manual

Project 3C Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. Inspect, **check, service, troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) AeroTrain AE-30-320 O-320 Operational Training Aid
- (3) AeroTrain AE-30-320 Operation Manual
- (4) O-320 Illustrated Parts Manual

TROUBLESHOOTING PROBLEMS:

- (1) An engine's RPM drops right off when the Mixture Control is pulled to Idle Cutoff. This would indicate what and what is the recommended solution(s)?
- (2) Black smoke is coming out of the exhaust pipe. This would indicate what and what is the recommended solution(s)?
- (3) Engine will start when the Primer is used but immediately stops when the Primer use is discontinued. This would indicate what and what is the recommended solution(s)?
- (4) The engine starts but dies or will not idle. This would indicate what and what is the recommended solution(s)
- (5) The engine runs roughly or will not accelerate properly. This would indicate what and what is the recommended solution(s)?
- (6) When the Mixture Control is placed in the Idle Cutoff position, the engine does not quit but continues to barely run. This would indicate what and what is the recommended solution(s)?

Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F - Fuel Metering Systems

Item 22. **Repair engine fuel metering system components.** (Level 2)

Item 23. **Inspect, check, service, troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

Project 4A & 4B

<u>Purpose:</u> To acquaint the student with the inspection, checking, servicing, troubleshooting, and repair of a typical Fuel Injection System.

References:

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Cessna 402C Maintenance and Parts Manuals
- (3) AeroTrain AE-30-520 Operations Manual
- (4) Continental T S I O -520 Engine Service Manual
- (5) AeroTrain Continental Fuel Injection CBT

Equipment and Tools Needed:

- (1) Cessna 402C
- (2) AeroTrain AE-30-520 Training Aid
- (3) AMT Roll-Around Toolbox
- (4) Computer workstation with internet access
- (5) Fuel Pressure Test Gauge and Hose

Supplies and Materials Needed:

(1) None

Procedure:

Complete the following procedures on the assigned project 4A or 4B

- (1) On pages 2 4, on the Continental Fuel Injection System pictures, identify and label all parts indicated by an arrow and label the items.
- (2) Inspect the assigned engine's fuel injection system and list all discrepancies found.
- (3) Install the Test Gauge and Test Hose as per the Cessna 402C Maintenance Manual.
- (4) Perform the Section 73-20-00 Adjustment/Test procedures and record all pertinent parameters noted.
- (5) Remove the Test equipment and perform the Fuel Line Purge procedure as per the Maintenance Manual.
- (6) Secure the aircraft.
- (7) Complete appropriate maintenance record entries.

Project 4A Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service, troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Cessna 402C
- a. NOTE: only use one engine
- (3) Cessna 402C Service Manual and Parts Manual
- (4) Continental T S I O -520 Engine Service Manual

Project 4B Item 22. Repair engine fuel metering system components. (Level 2) and Item 23.

Inspect, check, service, troubleshoot, and repair reciprocating and turbine **engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2 & Volume 2 Chapters 6 & 10
- (2) T S I O -520 Test Stand (AeroTrain AE-30-520 Training Aid)
- (3) AeroTrain AE-30-520 Operations Manual
- (4) Continental T S I O -520 Engine Service Manual



Item A (2 views): bank _____



Item B (2 views): blank______











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Part 147, Appendix D, Part 2, Subject F – Fuel Metering Systems

Item 22. **Repair engine fuel metering system components.** (Level 2)

Item 23. Inspect, check, service, **troubleshoot, and repair reciprocating** and turbine **engine fuel metering systems.** (Level 3)

Project 5

Purpose: To acquaint the student with the troubleshooting of typical Fuel Injection Systems.

References:

- (1) 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Cessna 402C Maintenance and Parts Manuals
- (3) AeroTrain AS-42 Continental Fuel Injection Trainer Operation and Training Manual
- (4) AeroTrain Continental Fuel Injection CBT
- (5) http://precisionairmotive.com

Equipment and Tools Needed:

- (1) AeroTrain AS-42 Continental Fuel Injection Trainer
- (2) AMT Roll-Around Toolbox
- (3) Computer workstation with internet access
- (4) Multimeter

Supplies and Materials Needed:

(1) None

Procedure:

Complete the following procedures on the assigned project 5

- (1) Below and on the following page answer the Troubleshooting questions using information from the Cessna 402C Maintenance Manual and from the Bendix RSA information available online at www.precisionairmotive.com/rsasupport.htm.
- (2) Operate the AeroTrain AS-42 Trainer and troubleshoot the Instructor-induced problem.
- (3) Discuss with the Instructor how you determined what the problem is and how to repair it.

CONTINENTAL FUEL INJECTION:

- (1) Engine fails to start. This would indicate what and what is the recommended solution(s)?
- (2) Engine starts but dies or will not idle. This would indicate what and what is the recommended solution(s)?
- (3) Engine runs roughly, will not accelerate properly, or lacks power. This would indicate what and what is the recommended solution(s)?
- (4) Poor Idle Cutoff. This would indicate what and what is the recommended solution(s)?

RSA FUEL INJECTION SYSTEMS:

(1) High Fuel Flow indicated and rough running engine. This would indicate what and what is the recommended solution(s)?

(2) Poor Idle Cutoff. This would indicate what and what is the recommended solution(s)?

(3) Rough Idle. This would indicate what and what is the recommended solution(s)?

(4) Hard Starting. This would indicate what and what is the recommended solution(s)?

Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F - Fuel Metering Systems

Item 22. Repair engine fuel metering system components. (Level 2)

Item 23. **Inspect, check, service,** troubleshoot, **and repair** reciprocating and **turbine engine fuel metering systems.** (Level 3)

Project 6A & 6B

<u>Purpose:</u> To acquaint the student with the inspection, checking, servicing, and repair of a typical Turbine Engine Fuel Metering System.

References:

- (1) 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) PT6 Maintenance and Parts Manuals
- (3) International Aero Engines V-2500 Installation and Operations Manual

Equipment and Tools Needed:

- (1) Pratt & Whitney PT6A-20 or 34 (as assigned)
- (2) International Aero Engines V-2500-A1
- (3) AMT Roll-Around Toolbox
- (4) Computer workstation with internet access

Supplies and Materials Needed:

1) None

Procedure:

Complete the following procedures on the assigned project 6A or 6B

- (1) Prepare a 100-Hour Inspection checklist for the Fuel Metering System on your engine, to include (but not limited to) checking and adjusting ("trimming") the assigned engine. Indicate what parameter is used as a measurement and how to properly adjust it if incorrect.
- (2) Remove, inspect and reinstall the assigned Fuel Nozzle(s) from the engine as per the manufacturer's information.
- (3) Write a description of the operation of the assigned nozzle(s) and how you would clean and check the proper operation of it/them.

Project 6A Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service,** troubleshoot, **and repair** reciprocating and **turbine engine fuel metering systems.** (Level 3)

- (1) 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) Pratt & Whitney PT6A-__ (assigned model)
- (3) PT6 Maintenance and Parts Manuals

Project 6B Item 22. **Repair engine fuel metering system components.** (Level 2) and Item 23. **Inspect, check, service,** troubleshoot, **and repair** reciprocating and **turbine engine fuel metering systems.** (Level 3)

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) International Aero Engines V-2500-A1
- (3) International Aero Engines V-2500 Installation and Operations Manual

Practical Project Guide for AMT 267 Powerplant Curriculum, Subject Item 20-23

Part 147, Appendix D, Part 2, Subject F – Fuel Metering Systems

Item 23. Inspect, check, service, **troubleshoot**, and repair reciprocating and **turbine engine fuel metering systems.** (Level 3)

Project 7

<u>Purpose:</u> To acquaint the student with the troubleshooting of typical Turbine Engine Fuel Metering System.

References:

- 14 CFR, Federal Aviation Regulations for Aviation Maintenance Technicians (Current Edition), Aviation Maintenance Technician Handbook – Powerplant, Volume 1 (FAA-H-8083-32) Chapter 2
- (2) PT6A Maintenance Manual

Equipment and Tools Needed:

- (1) Pratt & Whitney PT6A-20
- (2) Computer workstation with internet access

Supplies and Materials Needed:

(1) None

Procedure:

Complete the following procedures on the assigned project 7

1. Fill in the following Troubleshooting Chart as per the PT6 Maintenance Manual. Only indicate Causes and Remedies as they apply to the Fuel Metering System.

TROUBLE	PROBABLE CAUSE(S)	REMEDY
Delayed Start		

TROUBLE	PROBABLE CAUSE(S)	REMEDY
Fluctuating Idle		
RPM		
Engine fails to		
Light Off when Power Lever is		
advanced to the		
Ground Idle		
position		
but fails to		
accelerate to Idle		
RPM or excessive		
Start-to-fule time		
Hot Start		
Delayed Hot Start		
and Torching		
Fluctuating RPM		
and Inter-Turbine		
Temperature		

TROUBLE	PROBABLE CAUSE(S)	REMEDY
Ground Idle speed		
lincorrect		
Engine surges		
or fails to accelerate		
properly		
Uncontrolled		
maximum RPM		
Improper fuel flow		
Engine fails to		
decelerate		

TROUBLE	PROBABLE CAUSE(S)	REMEDY
Maximum available power at take-off abnormally low		
Engine flame-out during deceleration		
Engine continues to run a short time with Power Lever in cut-off or with fuel cut-off lever Closed		
Engine overtemperature		
Engine overspeed at low ambient temperature		

TROUBLE	PROBABLE CAUSE(S)	REMEDY
Engine flame-out		

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