AE: Symptom Chart 5

AE: Introduction

AE1 PRELIMINARY CHECKS

- Perform the following preliminary checks:
  - PCM system check
  - Accelerator pedal for binding, broken return spring, stuck condition (floor mats)
  - External fuel source
  - Engine not reaching normal operating temperature
  - PTO and charge protect devices disengaged

Are all checks OK?

Yes	No
GO to AE2 .	REPAIR as necessary. VERIFY a symptom no longer exists.

AE2 PERFORM QUICK TEST OPERATION

- Go to Section 2 , Diagnostic Methods. Perform Quick Test Operation.

Is a fault indicated?

Yes	No
GO to appropriate pinpoint test.	GO to AE3 .

AE3 CHECK ACCELERATOR PEDAL

- Check for floor mat interference.
- Check bushing for damage.
- Check return spring.

Is a fault indicated?

Yes	No
REPAIR as required.	GO to AE4 .

AE4 CHECK CRANKCASE

- Check for overfilled crankcase.

Is crankcase overfilled?

Yes	No

DRAIN crankcase to correct level. DETERMINE cause of overfill.	GO to AE5 .

AE5 CHECK ENGINE OIL

- Check for coolant in engine oil.

Is there coolant in engine oil?

Yes	No
REPAIR as required.	GO to AE6 .

AE6 CHECK FOR FUEL CONTAMINATION

- Check crankcase for fuel contamination.

Does the crankcase have fuel contamination?

Yes	No
GO to Section 4A or Section 4B , Diagnostic Subroutines. PERFORM Performance Diagnostic Procedures.	GO to AE7 .

AE7 CHECK PARAMETER IDENTIFICATIONS (PIDS)

- Go to Section 2 , Diagnostic Methods, Parameter Identification (PID), Selecting Parameter Identification (PID).
- Warm engine to normal operating temperature.
- Select PID EOT.

Is EOT value below 38°C (100°F)?

Yes	No
REPLACE EOT sensor according to Workshop Manual direction.	GO to AE8 .

AE8 CHECK TURBOCHARGER

- Remove turbocharger inlet air duct.
- Inspect turbocharger compressor wheel for damage to blade and for signs that the blade have been rubbing the housing.

Is turbocharger OK?

Yes	No
RETURN to Symptom Chart Index.	REPLACE turbocharger.