



service bulletin

No. 97-18

Oil Injection Gear Failures 135 thru 200 - 2.0L, 2.4L & 2.5L V6

IMPORTANT: Service/repair information for the following models:

MERCURY/MARINER

135-200 hp Models Serial Number 0C239553 & up

SPORTJET

175 hp Model Serial Number 0E203000 & up

Problem

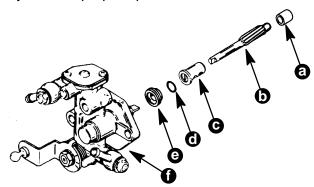
When repairing an oil injection gear failure on 2.0L, 2.4L, and 2.5L V6 Outboards and V6 Sportjets, perform the following procedure in order to prevent reoccurrence of failure.

Inspection

Remove cylinder heads to inspect cylinder bore for scoring caused by lack of lubrication.

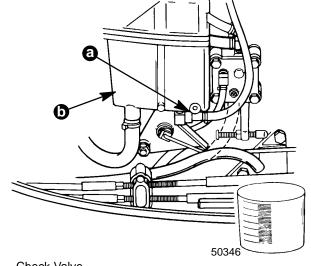
Correction

 If the cylinders are not damaged, replace the oil injection check valve, the crankshaft mounted drive gear, the driven gear, the drive gear bearing assembly, and the oil pump with worm bushing and o-ring. Thoroughly clean the crankcase and bleed system, inspect bronze bushing in cylinder block for damage, and check the warning horn system for proper operation.



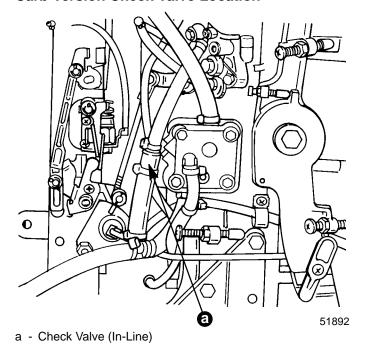
- a Oil Pump Driven Gear Bushing Located in Cylinder Block
- b Driven Gear
- c Drive Gear Bearing Assembly
- d O-Ring
- e Worm Bushing
- f Oil Pump

EFI Check Valve Location

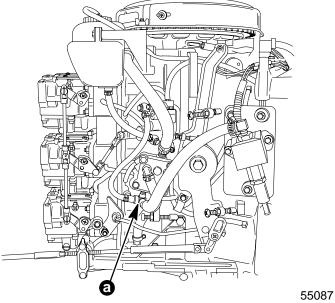


- a Check Valve
- b Vapor Separator

Carb Version Check Valve Location



Carb Version and 175 Sport Jet Check Valve Location (Tee)



a - Check Valve (Tee)

 If the cylinders are damaged, repair or replace powerhead as appropriate, replace the oil injection check valve, oil pump, drive gear bearing assembly, and driven gear. Check the warning horn system for proper operation and instruct the customer on proper break-in procedure.

Parts Required

For Oil Injection Gear Replacement -

Qty. 1 P/N 22-814964 Tee Check Valve (carb

version below ser#0D082000) Sport Jet 175

or

P/N 22-818994--1 Check Valve (carb

version ser#0D082000

and above)

or

P/N 21-42481--1 Check Valve (all EFI

models)

Qty. 1 P/N 815698 Oil Pump (135/150 carb

version)

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P/N 815699 Oil Pump (175/200 carb

versions and all EFI

versions)

Qty. 1 P/N 23-41429A2 Drive gear bearing

assembly

Qty. 1 P/N 43-14563 Driven gear

Qty. 1 P/N 43-14513A2 Drive gear

For Complete Powerhead Replacement –

Qty. 1 P/N (as applicable) Powerhead Assembly

Qty. 1 P/N 22-814964 Tee Check Valve (carb

version below ser#0D082000) Sport Jet 175

or

P/N 22-818994--1 Check Valve (carb

version ser#0D082000

and above

or

P/N 21-42481--1 Check Valve (all EFI

models)

Qty. 1 P/N 815698 Oil Pump (135/150 carb

version)

or

P/N 815699 Oil Pump (175/200 carb

versions and all EFI

versions)

Qty. 1 P/N 23-41429A2 Drive gear bearing

assembly

Qty. 1 P/N 43-14563 Driven gear

NOTE: This bulletin is <u>informational only</u> and is not intended as a service authorization or fix program.