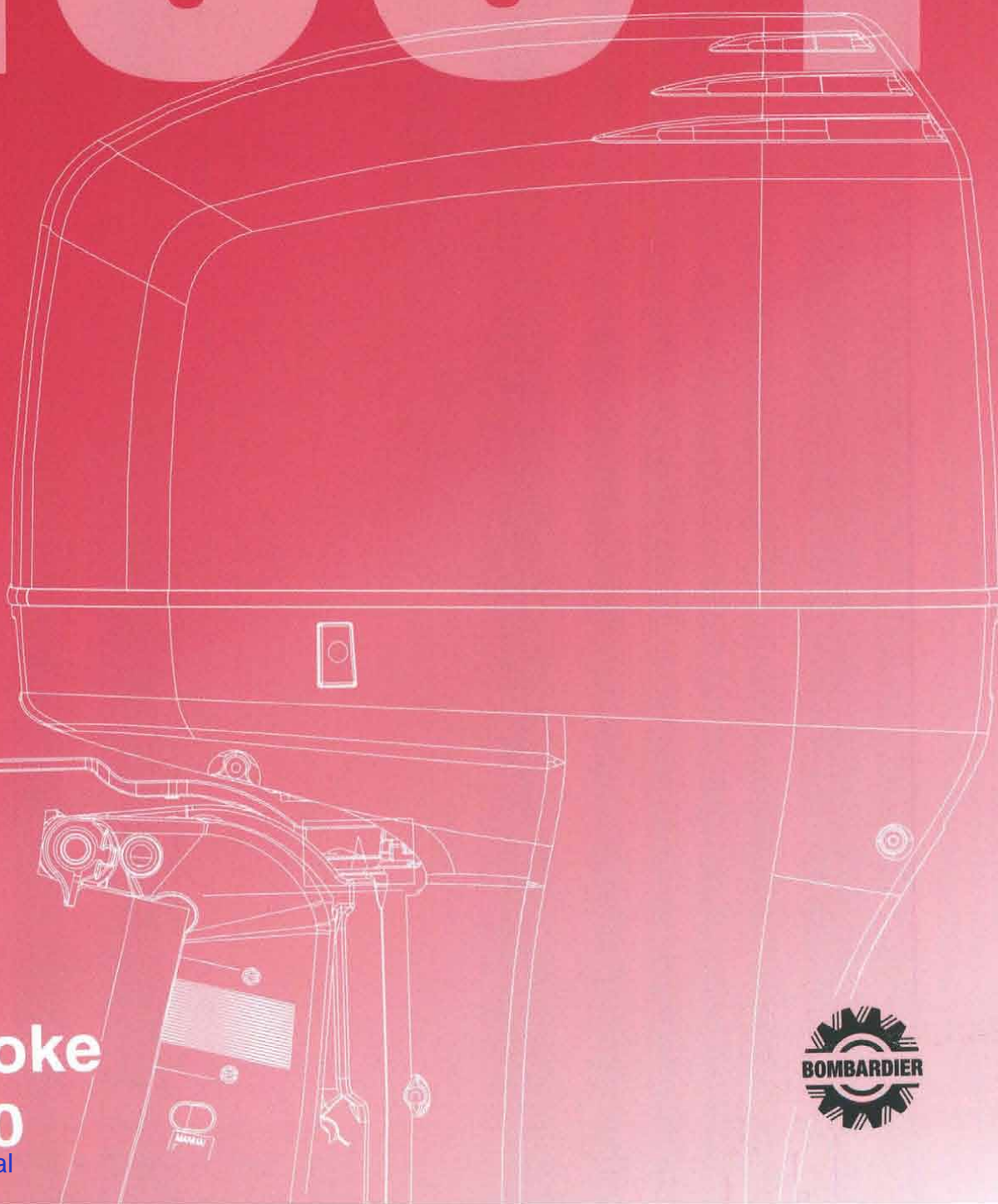


Service Manual

Johnson®



2 Stroke
40, 50

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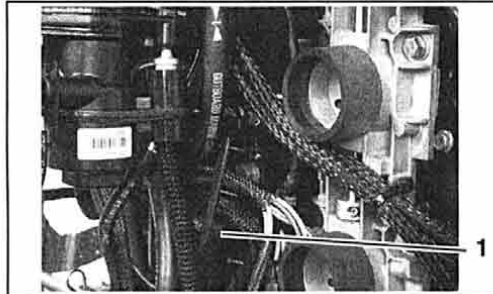


TYPICAL PAGE – D

OILING SYSTEM COMPONENTS

Two pulse hoses connect the pump to pulse fittings on the front of the cylinder/crankcase.

- **V4 Models** – cylinders 1 and 3
- **V6 Models** – cylinders 1 and 4



TYPICAL
1. Lower pulse hose

Typical illustration for lower pulse hose of V4 or V6 Models

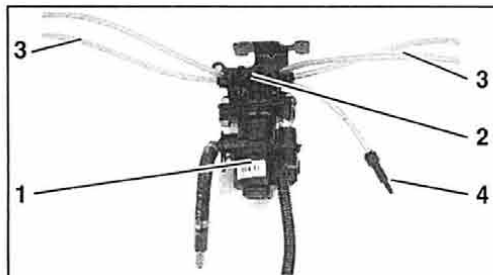
Oil Injector-Manifold

The oil injector-manifold distributes the oil supplied by the oil lift pump. A pressure-sensing switch monitors oil injection pressure.

Oil Injector-Manifold Components

- 40 V oil injector
- Oil distribution manifold
- Oil pressure switch
- Pressure regulator (oil return hose)
- Oil distribution hoses
- Oil to fuel check valve

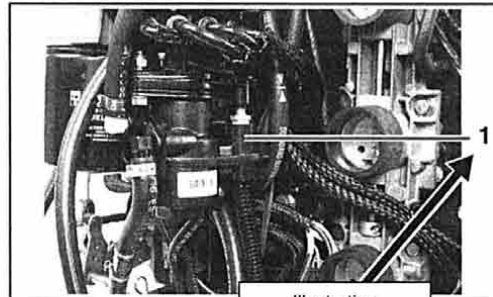
Cross references direct readers to related topics



TYPICAL
1. Oil injector
2. Oil distribution manifold
3. Oil distribution hoses
4. Oil to fuel check valve

Oil Pressure Switch

The oil pressure switch is located in the oil injector-manifold and reacts to changes in oil manifold pressure. The *EMM* supplies and monitors electrical current to the switch.



TYPICAL
1. Oil pressure switch

Illustration components numbered to correspond to image

The switch opens or closes in response to oil manifold pressures:

53 psi (365 kPa) (nominal) to close
43 psi (296 kPa) (nominal) to reopen

Refer to **Oil Pressure Switch Test** on p. 224.

Service Code 38

A faulty electrical circuit or an inoperative pressure switch activates service code 38 (no oil sensor feedback or lack of oil pressure) and the *EMM*:

Activates the <i>System Check</i> "NO OIL" light
Stores a service code
Initiates <i>S.L.O.W.</i>

Service Code 39

If no oil pressure is detected during startup, the *EMM* initiates an oil injector "recovery mode" to pressurize the system. If inadequate oil pressure is still detected after the recovery mode is completed, the *EMM*:

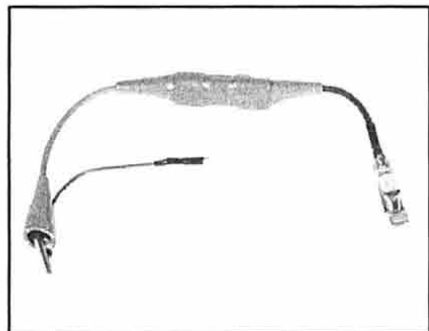
Activates the <i>System Check</i> "NO OIL" light
Stores a service code
Initiates <i>S.L.O.W.</i>

8

Section tabs allow for quicker reference when thumbing through manual

SPECIAL TOOLS

Electrical / Ignition



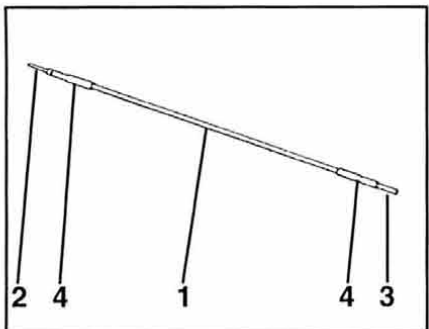
Adaptor, power pack load resistor 49797
P/N 507983



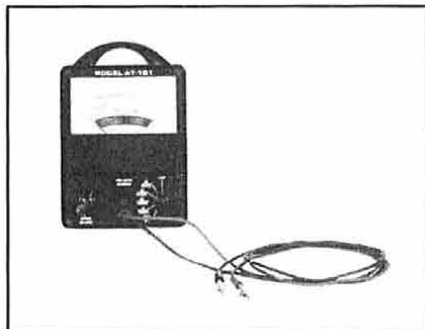
1. Amphenol insert tool P/N 322697 000798
2. Amphenol pin removal tool P/N 322698
3. Amphenol socket removal tool P/N 322699



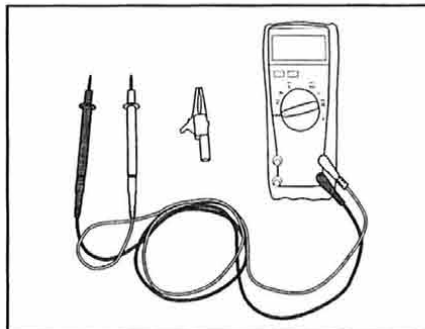
Coil locating ring P/N 334994 32211



- Amphenol connectors, jumper wire 73158
1. No. 16 wire, 8 in. (200 mm)
 2. Pin, P/N 511469
 3. Socket, P/N 581656
 4. Shrink tube, 510628



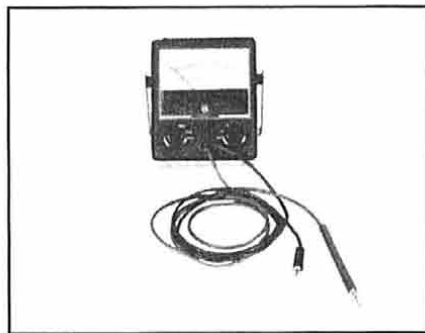
Analog multimeter P/N 501873 49793



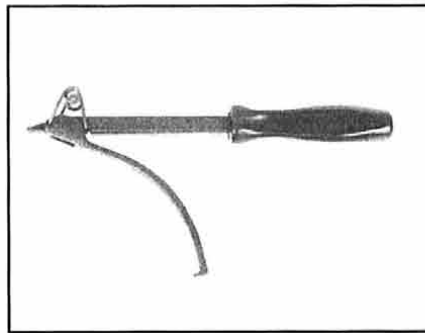
Digital multimeter P/N 500003 DRC7265



Amphenol crimping pliers 30387
P/N 322696



CD Peak reading voltmeter 49799
P/N 507972



Flywheel holder P/N 771311 42938