



SERVICE
BULLETIN
505
EMISSIONS

ISSUED: December 2, 2005

SUBJECT: Potential Fuel Leakage from Low-permeation Fuel Line

MODELS OR EQUIPMENT MANUFACTURERS AFFECTED: See Attached List

D.O.M. (date of manufacture) RANGE AFFECTED:

05241C thru 05286C (Dunlap – ALL EXCEPT TM049, TH098, TH139, OV358, OV490, OV691)

05256J thru 05286J (Corinth – ALL EXCEPT LV148/195), and

05272J thru 05286J (Corinth LV148/195 only)

We have discovered a potentially HAZARDOUS situation with engines manufactured at two different plants during the above listed D.O.M. ranges. This situation requires your **IMMEDIATE** attention to prevent any potential fuel leakage. Engines in the listed D.O.M. ranges have the potential for the fuel line to come loose at the fuel tank outlet/spud. Once an engine is confirmed to be in the affected Model, Specification, and D.O.M. range, the following inspection/repair must be done prior to use of the machine.

If you have sold any of the listed products since **August 29, 2005**, we are asking your cooperation in contacting the customer to ask them not to fuel or use the machine until it has been inspected.

Uncrated Inspection Process

The first step is to identify the product by the OEM, Engine Model, Specification number and D.O.M. (see attached list to determine it is in the affected range). If the product is not within the affected range, record the OEM model and serial numbers and submit them on a copy of the attached repair log sheet along with a warranty claim. If a repair is required, proceed to Performing Repair section of this Service Bulletin. For permitted time, see Item 11 under the Performing Repair section of this Service Bulletin.

Crated or Boxed Units Inspection Process

If the unit is still in the box and will stay boxed, the first step is to identify the product by the OEM, Engine Model, Specification number and D.O.M. (see attached list). If the product is not within the affected range, record the OEM model and serial numbers and submit them on a copy of the attached repair log sheet with a warranty claim. If a repair is required, proceed to Performing Repair section of this Service Bulletin. For permitted time, see Item 11 under the Performing Repair section of this Service Bulletin.

1. Carefully open the top of the box (if needed) to locate the position of the engine ID label and fuel tank (fig. 2).
2. Next, cut a small 3-sided flap at that same height as the engine ID label through the side of the box to view the ID label and determine if it is in the affected range. Dependent on the OEM container, this may require the use of a telescoping mechanics mirror and a flashlight to view the ID label (fig. 5). If you are doing multiple machines you may wish to make a template to cut a small opening in the side of the box to access the ID label and the fuel line if needed. If the unit is boxed, reseal it to sellable condition using clear tape.
3. **If the product is not affected**, apply a BRIGHT GREEN 1" (25mm) diameter self-adhesive label (if labels are not available, a GREEN paint pen may be used) below each of the OEM's model identification decal or markings on the box containing the **unaffected** product (this may be as many as 4 locations per box - see fig. 4). Remember to record all OEM numbers and Tecumseh Engine Model, Specification, and COMPLETE D.O.M. Numbers and submit them with your warranty claim and log sheet. This unit is now available to sell.
4. **If the engine is in the affected range**, proceed to performing repair.

**SERVICE
BULLETIN
505
EMISSIONS**



Product that has been previously inspected and or repaired will be marked in one of two ways.

1. Crated/Boxed product that has been inspected or repaired will have a GREEN circle or self adhesive dot approximately 1" (25mm) diameter on the box. This will be located directly below the manufacturer's model/serial identification number (fig. 4). This mark identifies the product as **GOOD** and may be sold and used.
2. Engines in the affected D.O.M. range that have been repaired will have a YELLOW paint mark on the fuel line, adjacent to the fuel tank outlet (fig. 3).

Performing Repair:

Recommended tools and supplies:

- Tecumseh fuel line removal tool service part number **670382** or a 5/16" (8mm) or larger flat blade screwdriver is acceptable
 - Spare fuel line clamp (if needed) service part number **26460**
 - Standard pliers
 - Yellow paint pen
 - Self adhesive GREEN dot 1" (25mm)
 - Clear packaging tape
 - Box knife and flat cardboard for template if needed
 - Isopropyl alcohol
 - Shop rags
 - Copies of attached log sheet as needed
 - 180-220 grit emery cloth approximately 3/4" (19mm) wide (replace after sanding every (10) tanks)
 - Flashlight
 - Telescoping mechanics mirror
1. If the unit is crated or boxed, you will need to cut a three sided flap in the box to gain access to the bottom of the fuel tank.
 2. Using a standard pliers, slide the fuel line clamp down the line and then remove the line using line removal tool part number **670382** or a 5/16" (8mm) or larger flat blade screwdriver is acceptable. Use CAUTION not to pull or stretch the line.
 3. Push the line to the side to prevent contamination as shown in (fig. 6).
 4. Next use a small piece of 180-220 grit emery cloth to slightly ROUGH up the fuel tank spud, as shown in (fig. 6) - one revolution is sufficient. **DO NOT** perform this in a vertical motion (fig. 7).
NOTE: The emery cloth MUST be replaced after roughing every (10) spuds.
 5. Next use isopropyl alcohol on clean rag to clean the tank spud and wet it for line installation.
 6. While tank spud is still wet from the alcohol push the line back on. DO NOT twist or kink line. The line should be approximately 3/32" (2mm) from tank bottom. Re-install the clamp.
 7. Next use a permanent YELLOW paint marker to place a dot on the line as shown in (fig. 3) to mark the unit as repaired. These paint markers are available at many hardware or automotive stores.
 8. If the unit is boxed, reseal it to sellable condition using clear tape.
 9. Place a 1" (25mm) diameter self adhesive GREEN dot (available at any office supply store) on the outside of the box below any OEM model/serial number location (this may be up to four per carton) as shown in fig. 4. If a self adhesive dot is not available use a GREEN paint pen and place a 1" (25mm) diameter circle in those locations (fig. 4).
 10. Record all the OEM model and serial numbers on the attached log sheet and attach to the OPEESA warranty claim or online through Tecumseharranty.com and submit the claim. We will allow batch filing.
 - Paper filing must include the completed log sheet
 - Electronic batch filing will be allowed when the required information is submitted in Box 12 (fig. 1)



**SERVICE
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505
EMISSIONS**

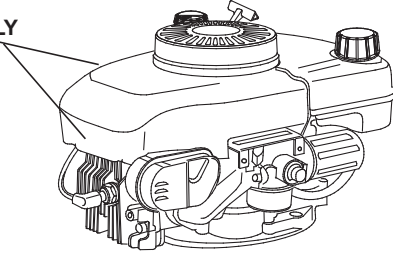
11. Charges will be allowed per the following:
- a. Inspection without repair – 15 minutes
 - b. Inspection with repair – 30 minutes
 - c. Trip charge to repair outlet - \$35
 - d. Miscellaneous shop material - \$2 per unit

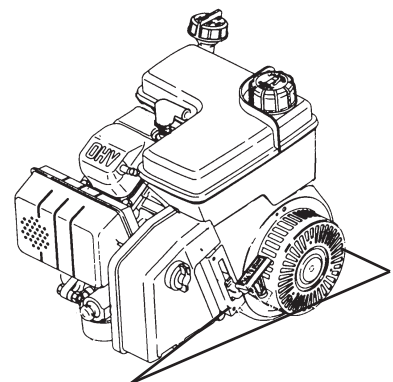
We appreciate your PROMPT attention to this issue.

Engine Model	Spec	Tecumseh D.O.M.	OEM Model	OEM Serial Number
OH358SA	223842F	05285C	3200XX50	2005111100

Figure 1

ENGINE MODEL NUMBER LOCATIONS ON LOG SPLITTERS AND PRESSURE WASHERS ONLY





ENGINE MODEL NUMBER LOCATIONS

⚠ WARNING

2083

To avoid injury or death, read the engine operator's manual and the equipment owner's manual. Call 1(800)558-5402 for engine owner's manual.

--- IMPORTANT ENGINE INFORMATION ---

TECUMSEH POWER COMPANY

THIS ENGINE MEETS 1995-2005 CALIF & US EPA PHI APPLICABLE EMISSION REGULATIONS FOR SI SORE ENGINES

FUEL: REGULAR UNLEADED

OIL: SAE 30

MODEL: XXXXXX


WARRANTY: (D)

SPEC: XXXXXX

DOM: 04015A A0001

ENGINE FAMILY: 4TPXS.1951BB

DISP: 195 cc



INDIVIDUAL SERIAL NUMBER

AFFECTED RANGE

Plant C

D.O.M. 05241C thru 05286C

ALL EXCEPT TM049, TH098, TH139, OV358, OV490, OV691

or

D.O.M. 05256J thru 05286J

ALL EXCEPT LV148/195

Plant J

D.O.M. 05272J thru 05286J

LV148/195 ONLY

Figure 2

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505
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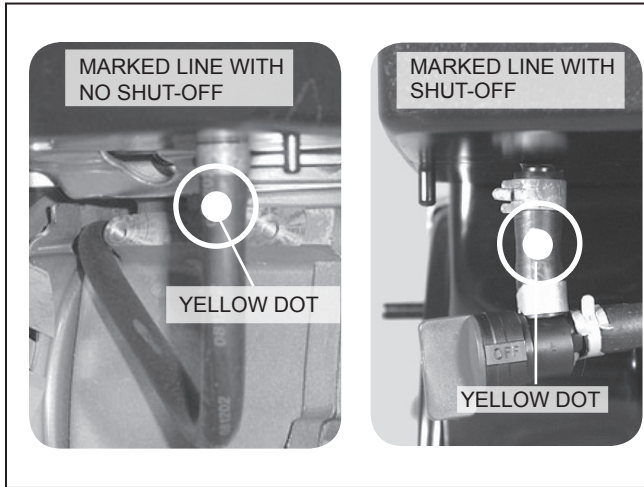


Figure 3

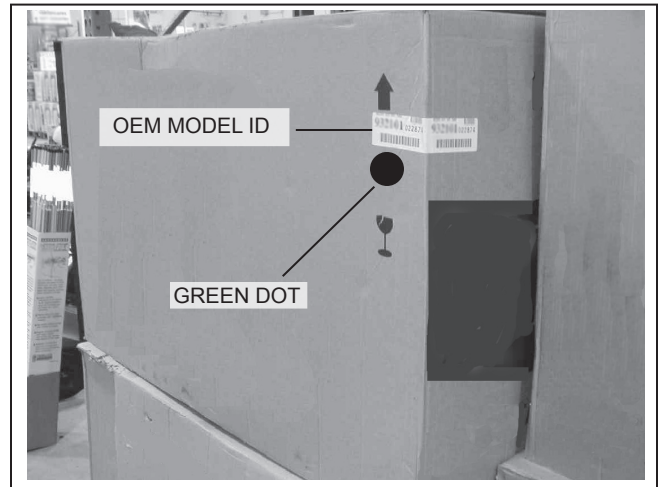


Figure 4

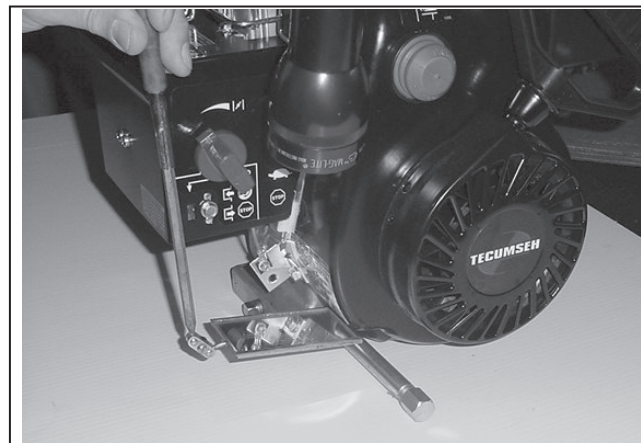


Figure 5

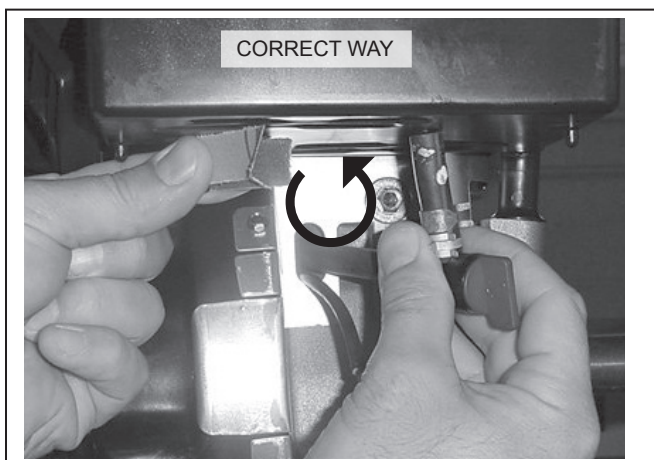


Figure 6

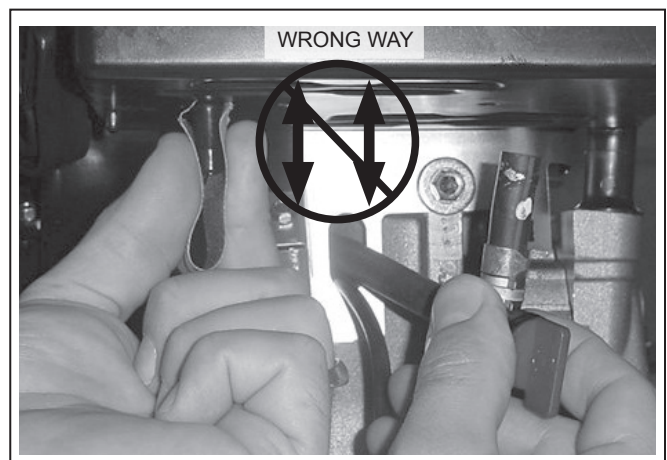


Figure 7



**SERVICE
BULLETIN
505
EMISSIONS**

The following list of OEM's along with engine model and specification numbers are being provided to assist you in your evaluation of potentially affected equipment. Remember ONLY the engines in the D.O.M. range listed in the beginning are affected.

Agri-Fab

HM80-155630Y

American Kleaner

LV148EA-334026B

Ardisam

LV195EA-361569D
TV085XA-670127W
TV085XA-670155W

Ariens

LH195SP-67523D
LH318SA-156582H
LV195EA-361570D
OH195SA-72551G
OH195SA-72558G
OH195SP-73503C
OH195SP-73504C
OH318EA-222719E
OH318SA-221825B
OH318SA-221826B
OH358SA-223841F
OH358SA-223842F
OH358SA-223843F

Carter Brothers

H35-45812B
LV148EA-334041B
OH195EA-71239G
OH195EP-71813B

Coleman

Powermate

HM80-155722X
LV195EA-361540D

EHP *

LH195SP-67524D
LH318SA-156551H

LH318SA-156589H
LH358SA-159622A
LH358SA-159628A
OH195SA-72536G
OH195SA-72549G
OH318SA-221806B
OH318SA-221807B
OH318SA-221813B
OH318SA-221814B
OH318SA-221821B

Feldmann

TV085XA-670119W
TV085XA-670151W

Hoffco

LV195EA-361579D

Ken-Bar

H40-55820D
OH195EA-71156G

MEPCO

TV085XA-670149W

MP Pumps

H35-45801B
OH195EA-71232G

MTD **

LH195SA-67418V
LH195SA-67419V
LH195SA-67424V
LH195SP-67513D
LH195SP-67514D
LH195SP-67517D
LH318SA-156553H
LH318SA-156554H
LH318SA-156568H
LH318SA-156583H

LH318SA-156584H
LH318SA-156585H
LH318SA-156586H
LH318SA-156587H
LH358SA-159502Z
LH358SA-159503Z
LH358SA-159506Z
LH358SA-159513Z
LH358SA-159517Z
LH358SA-159614A
LH358SA-159615A
LH358SA-159617A
LH358SA-159621A
LH358SA-159624A
LV195EA-361571D
OH195EA-71268H
OH195SA-72525G
OH195SA-72528G
OH195SA-72552G
OH195SA-72556G
OH195SA-72561G
OH195SA-72562G
OH318SA-221808B
OH318SA-221816B
OH318SA-221817B
OH318SA-221830B
OH318SA-221832B
OH358SA-223828F
OH358SA-223829F
OH358SA-223830F
OH358SA-223844F
OV195EA-23514B

MTD Products

Aktiengesellschaft

OV195EA-23513A

Murray ***

LH318SA-156577H

Northern Tool ****

HM80-155713X
LV148EA-334029B
LV195EA-361556D
LV195EA-361595D

Service Engines

H30-36702C
H35-45814B
HM100-159376W
HM100-159379V
HM100-159451V
HM80-155627X
HM80-155656Y
OH318EA-222722E
TVM220-157264L
TVM220-157299L
TVM220-157308L
LH358SA-159606A
LV148EA-334040B
LV195EA-362014C
LV195EA-362046C
OH318SA-221824B

Riordan

HM80-155651Y
HM80-155726Y

Toro

LH318SA-156563H
LH318SA-156564H
LH358SA-159625A
LV195EA-362003C
OH318SA-221812B

* EHP units include the following brands - Husqvarna and Poulon

** MTD units include the following brands - Yardman, Yard Machines, White, Troybilt, Cub Cadet

*** Murray - Product is branded Craftsman Canada only

**** Northern Tool is sold as North Star brand