# FUTURE GRAPHICS IMAGING CORPORATION

# HP Color LaserJet
## CM1312, CP1515, CP1215, CP1518
### TECHNICAL INSTRUCTIONS

HPCP1518TECH

| Technical Instructions | Printers | Cartridge Info | Tools | 1 |
|---|---|---|---|---|

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### Printers
HP CP1215 8-12ppm
HP CP1515 8-12ppm
HP CP1518 8-12ppm
HP CM1312 MFP
  8-12ppm
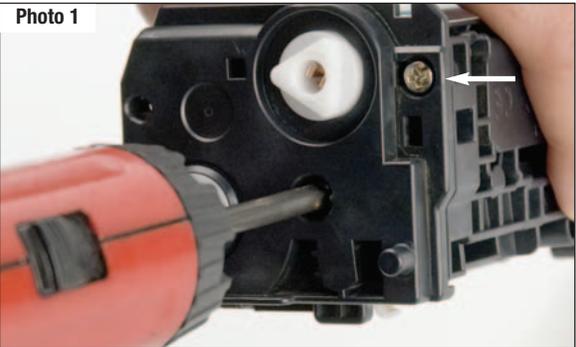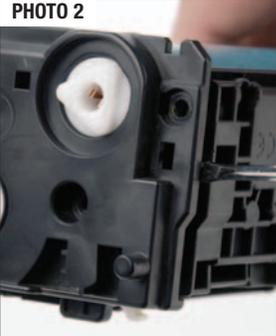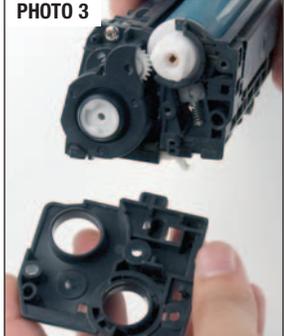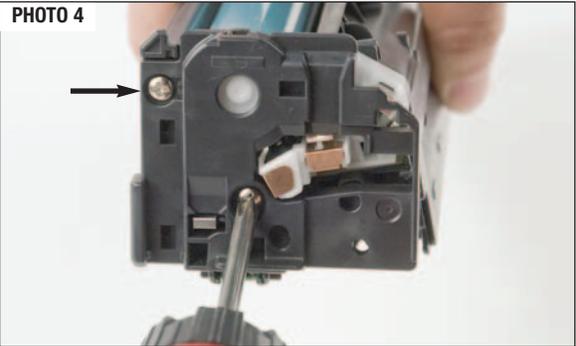
### Cartridge Info
**CB540A –** Black 2200 Pages
**CB541A –** Cyan 1400 Pages
**CB543A –** Magenta 1400 Pages
**CB542A –** Yellow 1400 Pages

### Tools
Phillips screwdriver
Small flathead
  screwdriver
DRCLEANFIX
HP1518DRFIX
HP1518THHOLD
**Supplies Required:**
Drum
Toner
Wiper Blade
Chip

Seal
Fill-plug
Dry lint-free cloth
Dry compressed air or
  vacuum
DRUMPOWDERCPT
Cotton swab
Conductive grease
Pull tab
Shipping lock
Doctor Blade Shim


Photo 1

**Step 1**
Place the cartridge on a working bench. Using a Phillips screwdriver, remove the two screws that hold the drum bearing end cap onto the cartridge *(See photo 1)*.


PHOTO 2


PHOTO 3

**Step 2**
Using a small flathead screwdriver, pry open the bearing end cap *(See photo 2)*. Remove the drum bearing end cap *(See photo 3)*.


PHOTO 4

**Step 3**
Rotate the cartridge 180 degrees. Using a Phillips screwdriver, remove the two screws that hold the end cap onto the contact side of the cartridge *(See photo 4)*.

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PHOTO 7

**Step 6**

Lift and remove the drum from the waste hopper *(See photo 7).* If you are planning to reuse the OEM drum, place the drum in a protected area out of the light.

**Step 4**

Using a small flathead screwdriver, press and release the plastic tab that holds the end cap onto the cartridge *(See photo 5).* Remove the end cap.
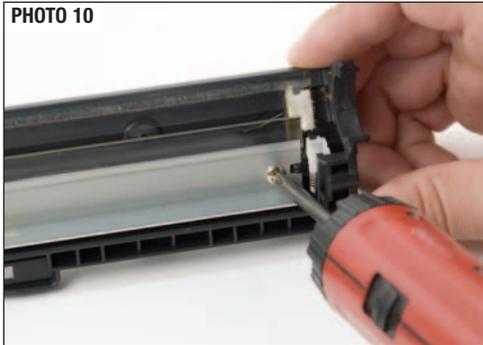
PHOTO 5

PHOTO 8

PHOTO 9

**Step 7**

Carefully lift out the PCR *(See photo 8).* Clean the shaft of the PCR using a dry lint-free cloth to remove any conductive grease. Clean the PCR using a new dry lint-free cloth *(See photo 9).*
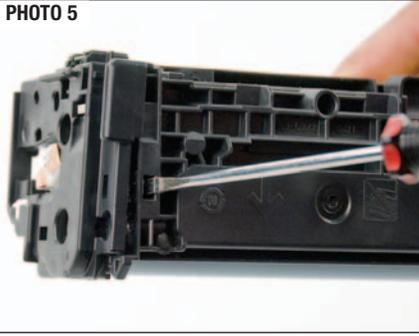
**Step 5**

Once both end caps are removed, the waste hopper and toner hopper can be separated *(See photo 6).* Set the toner hopper aside.

PHOTO 10

**Step 8**

Remove the two screws holding the wiper blade *(See photo 10).* Remove the wiper blade and clean the blade using dry compressed air.

PHOTO 6

PHOTO 11

**Step 9**

Clean the waste hopper using dry compressed air or a vacuum *(See photo 11).*

PHOTO 12

**Step 10**

Apply yellow toner (DRUMPOWDERCPT ) to a new or once-used wiper blade. Place the blade onto the waste hopper and install the two screws that hold the blade in place *(See photo 12).*

**PHOTO 13**

### Step 11

Using a cotton swab with alcohol, clean the PCR saddle. Apply new conductive grease to the black conductive PCR saddle. Install the PCR *(See photo 13).*

**PHOTO 14**

### Step 12

Apply yellow toner (DRUMPOWDERCPT) to a new or once-used drum. Place the drum onto the waste hopper so the drive gear of the drum rests to the opposite of the PCR contact side *(See photo 14).* Set the waste hopper aside.

**PHOTO 15**

### Step 13

Remove the screw that holds the gear housing end cap to the toner hopper *(See photo 15).*
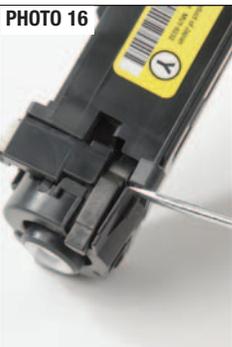
**PHOTO 16**    **PHOTO 17**

### Step 14

Insert a small flathead screwdriver between the toner hopper and the gear housing end cap *(See photo 16).* Carefully, pry the gear housing end cap away from the toner hopper. This will break the sonic weld that holds the end cap to the toner hopper *(See photo 17).*
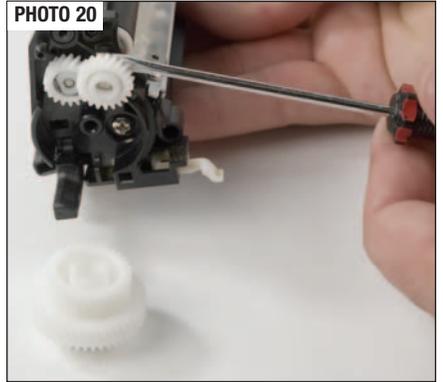
**PHOTO 18**    **PHOTO 19**

### Step 15

Hold the toner hopper so the label is facing you. Using a small flathead screwdriver, release the locking tab that holds the gear housing end cap to the toner hopper *(See photo 18).* Remove the gear housing end cap *(See photo 19).*

### Step 16

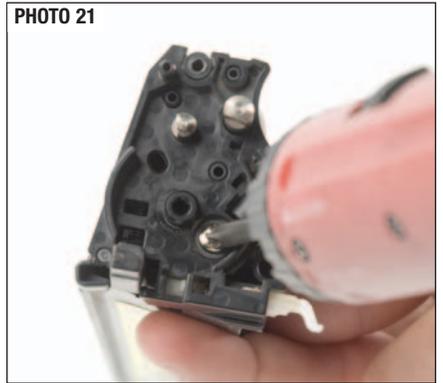Remove the gears from the end of the toner hopper *(See photo 20).*

**PHOTO 20**

### Step 17

Using a Phillips screwdriver, remove the screw that holds the developer roller end cap *(See photo 21).*

**PHOTO 21**

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**Step 18**

Remove the developer roller end cap from the end of the toner hopper *(See photo 22).*

PHOTO 22

**Step 19**

Rotate the toner hopper 180 degrees. Using a Phillips screwdriver, remove the screw that holds the developer roller contact end cap *(See photo 23).* Remove the developer roller contact end cap.
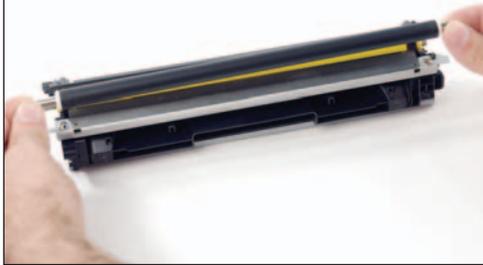
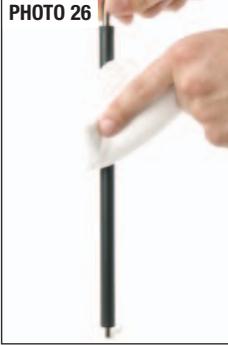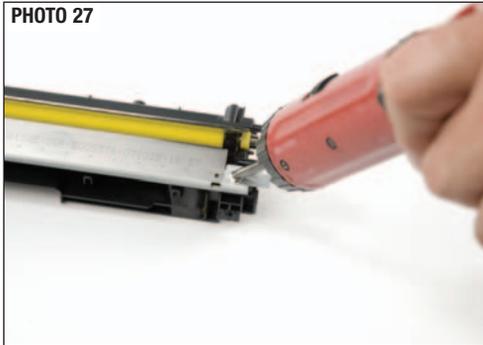PHOTO 23

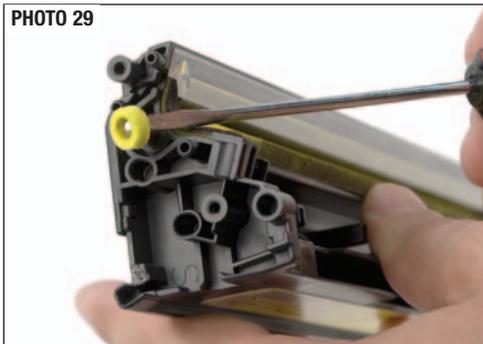PHOTO 24

PHOTO 25

PHOTO 26

PHOTO 27

PHOTO 28

PHOTO 29

**Step 20**

Remove the developer roller from the toner hopper *(See photo 24).*

**Step 21**

Remove the developer roller bushings *(See photo 25).* Clean the shaft of the developer roller using a lint-free cloth to remove the conductive grease. Clean the developer roller first using dry compress air or a vacuum, then a lint-free cloth *(See photo 26).*

**Step 22**

Remove the two screws that hold the doctor blade in place *(See photo 27).* Remove the doctor blade.

**Step 23**

Clean the doctor blade first using dry compress air and then place the doctor blade into a cleaning fixture (DRCLEANFIX). Clean the doctor blade using a lint-free cloth and distilled water *(See photo 28).*

**Step 24**

Remove the supply roller sealing end foams from the axle of the supply roller on each side of the toner hopper *(See photo 29).*

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**PHOTO 30**



### Step 25

Using a small flathead screwdriver, push out the seal exit port plug *(See photo 30)*.

### Step 30

Prepare a new seal by folding and creasing the replacement seal as shown in the diagram *(See photo 35).*
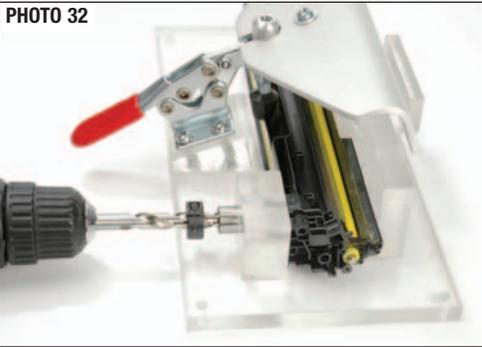
**PHOTO 31**



### Step 26

Slide the toner hopper into the toner hopper holding fixture. Push the red handle down to secure the toner hopper in the fixture *(See photo 31).*

**PHOTO 35**



STEP 1    STEP 2    STEP 3    STEP 4

**PHOTO 32**



### Step 27

Install the provided drill bit into the drill and tighten. Begin drilling using light pressure to start hole. *(See photo 32).*

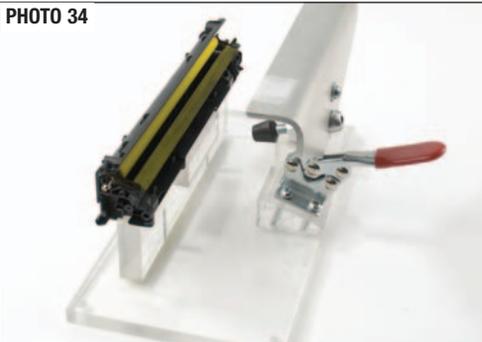**NOTE: Too much pressure could cause drill bit to grab and damage the hopper.**

### Step 31

Insert the insertion tool in between the plastic base of the seal and the pull strip *(See photo 36).*

**PHOTO 36**



**PHOTO 33**



### Step 28

Remove the toner hopper from the holding fixture. Clean the toner hopper using dry compressed air, making sure the hopper is void of plastic shavings *(See photo 33).*
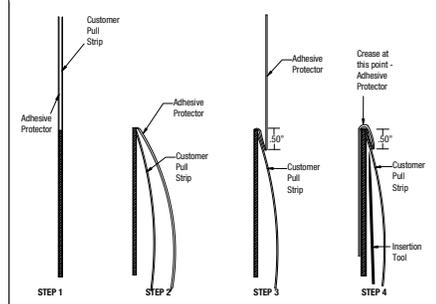
**PHOTO 34**



### Step 29

To seal the hopper, place the toner hopper onto the hopper holding fixture *(See photo 34).*
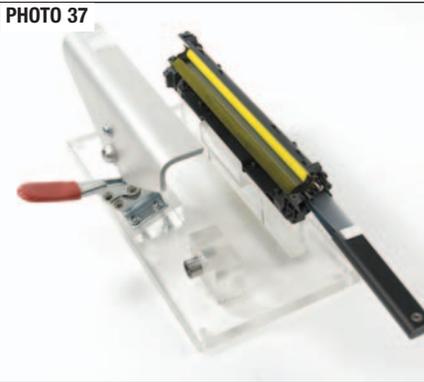
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**Step 32**

Insert the seal and insertion tool into the exit port all the way into the seal area *(See photo 37).*

**NOTE: Be sure the new seal is fully inserted into the entire length of the seal area or leakage may occur.**

PHOTO 37



**Step 33**

Hold the insertion tool with one hand and pull out the adhesive backing - the lower layer - of the seal with your other hand *(See photo 38).*

PHOTO 38

PHOTO 39



PHOTO 40



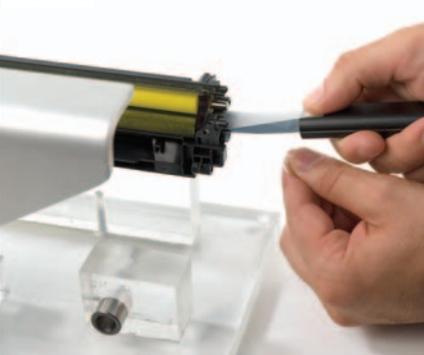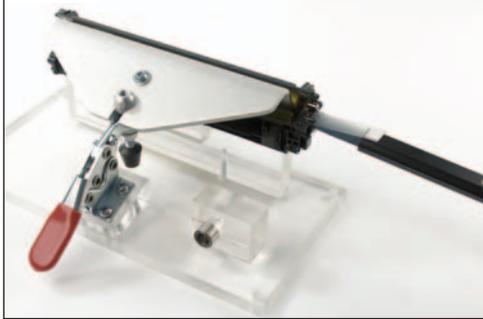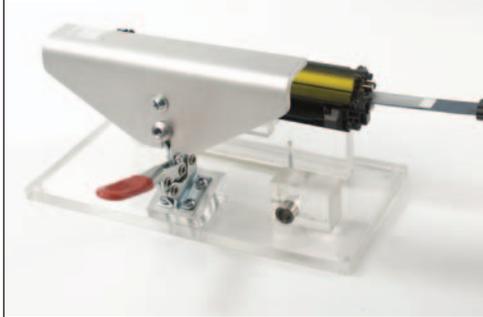PHOTO 41



PHOTO 42



PHOTO 43



PHOTO 44



**Step 34**

Leave the insertion tool in place and push the fixture clamp all the way down into a locked position to set the new seal in place *(See photo 39).* Let the clamp sit for approximately 15 seconds.

**Step 35**

Unlock the clamp; pull out the insertion tool leaving the new seal within the toner hopper *(See photo 40).*

**Step 36**

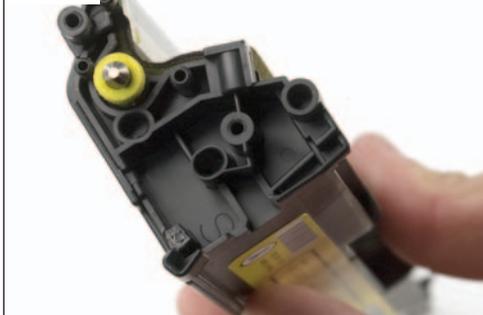Insert the OEM seal port plug over the top of the new seal *(See photo 41).*

**Step 37**

Fill the toner hopper through the hole on top of the hopper. Seal the hole using a fill plug *(See photos 42 & 43).*

**Step 38**

Install the toner supply roller end foams to the axle on each side of the hopper *(See photo 44).*

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**PHOTO 45**



**Step 39**

Add 3 to 4 grams of toner to the supply roller for post testing the cartridge *(See photo 45).*
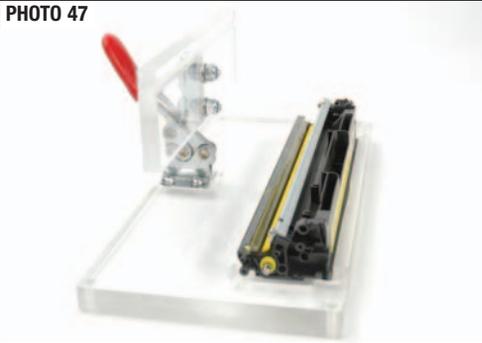
**PHOTO 46**



**Step 40**

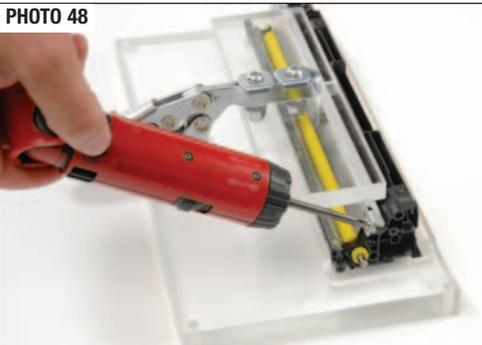Place the doctor blade shims onto the ends of the doctor blade *(See photo 46).*

**PHOTO 47**



**Step 41**

Set the doctor blade on the toner hopper. Install the two screws that hold the doctor blade but do not tighten them. Place the toner hopper onto the toner hopper doctor blade alignment fixture. *(See photo 47).*

**PHOTO 48**



**Step 42**

Press down on the red handle until the clamp locks into place. Finish tightening down the doctor blade screws *(See photo 48).*
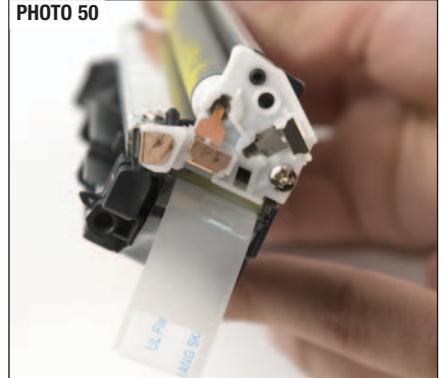
**PHOTO 49**



**Step 43**

Install the developer roller bushings onto the developer roller, set the developer roller onto the toner hopper *(See photo 49).*

**Step 44**

Place the developer roller contact end cap onto the contact side of the toner hopper. Install the screw that holds the contact end cap in place *(See photo 50).*
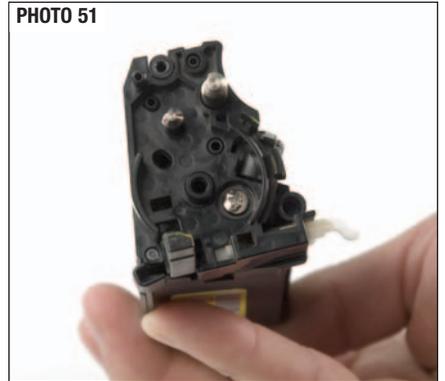
**PHOTO 50**



**Step 45**

Rotate the toner hopper 180 degrees. Place the developer roller end cap onto the gear side of the toner hopper. Install the screw that holds the end cap in place *(See photo 51).*

**PHOTO 51**

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### Step 46

Install the three gears onto the toner hopper *(See photo 52)*. Place the gear housing end cap onto the toner hopper and install the screw that holds the end cap onto the toner hopper *(See photo 53)*.

**PHOTO 52**

**PHOTO 53**

### Step 47

Place the waste hopper on the workbench so the drum is facing up and the compression spring is on the left. Align the compression spring with the alignment pin located on the toner hopper *(See photo 54)*.
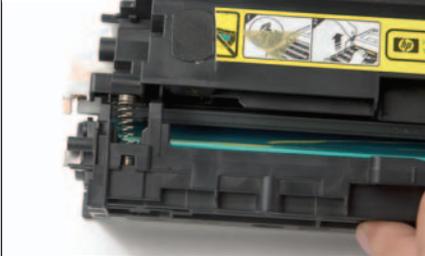
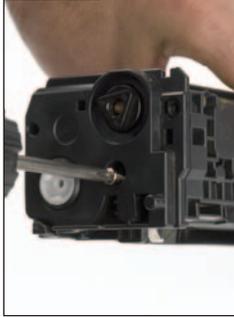**PHOTO 54**

**PHOTO 55**

**PHOTO 56**

**PHOTO 57**

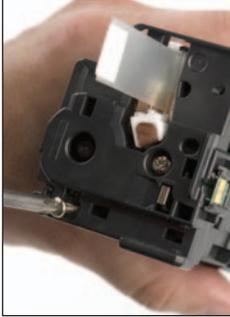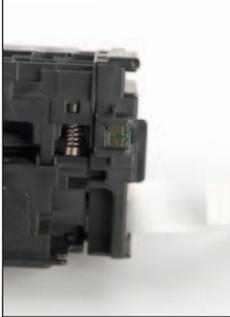**PHOTO 58**

**PHOTO 59**

**PHOTO 60**

**PHOTO 61**

**PHOTO 62**

### Step 48

Holding both hoppers together with one hand, use the other hand to install the drum bearing end cap. *(See photo 55)*.

### Step 49

Rotate the cartridge 180 degrees. Install the end cap onto the contact side of the cartridge *(See photo 56)*.

### Step 50

Install the screws that hold the end caps in place *(See photos 57 & 58)*.

### Step 51

Using an X-acto knife, cut the plastic weld holding the chip in place *(See photo 59)*. Remove the used chip.

### Step 52

Install the new chip onto the cartridge *(See photo 60)*.

**NOTE: For post testing you must have a spare chip.**

### Step 53

Install the seal pull tab onto the cartridge. Remove adhesive cover from seal pull strip and attach it onto the pull tab *(See photo 61)*.

### Step 54

Install the drum shipping cover onto the cartridge *(See photo 62)*.