



500 #4  
7/26/71

# SERVICE BULLETIN

AMERICAN HONDA MOTOR CO., INC. MOTORCYCLE SERVICE DEPARTMENT

## MODIFIED CLUTCH AND SHIFTING MECHANISM

Redesigned shifting mechanism and clutch plates have been incorporated in the manufacture of CB-500 engine number CB500E-1018728 and subsequent, to improve neutral selection and clutch disengagement when the engine is hot. A modification kit is available for installation in CB-500 engines prior to engine number CB500E-1018728, to provide the same advantages for the earlier engines.

This modification consists of replacing the shift drum stopper assemblies, the clutch lifter rod, and the clutch plates. All parts required to accomplish this modification are supplied in the kit, part number 06241-323-000.

To accomplish this modification, perform the following steps:

1. Drain engine oil and remove the following:

- Right-hand foot peg.
- Kick starter arm.
- Right-hand crankcase and gasket.
- Clutch pressure plate and clutch assy.
- Gearshift pedal.
- Starter cover.
- Left crankcase cover.
- Clutch rod (remove from left side).

2. Oil the new clutch rod and install from the left side, round end first.



3. Remove shift drum stopper assembly. Discard attaching hardware and stopper assembly.



4. Remove shift drum stopper cam and the one protruding gearshift drum pin. Discard screw and pin.



ROUTING:

COPY 1  
COPY 2

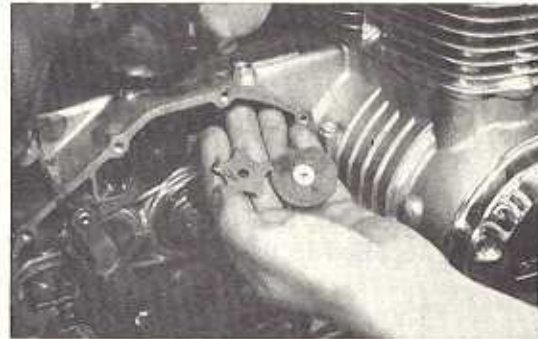
GENERAL MANAGER  
 SERVICE MANAGER

SALES DEPT  
 MECHANICS

OFFICE FILE  
 SHOP FILE

### MODIFIED CLUTCH AND SHIFTING MECHANISM (continued)

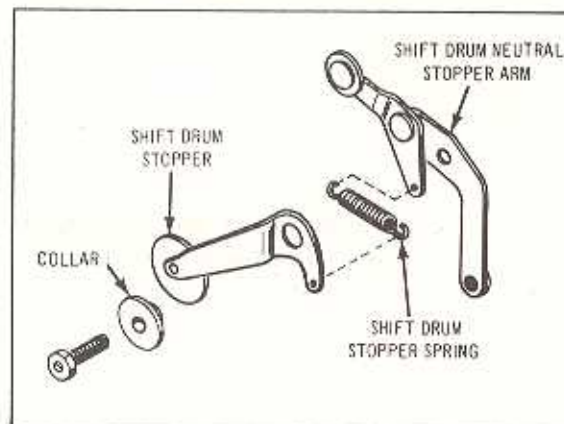
5. Install new gearshift drum pin, new drum stopper cam plate (install with "R" stamp mark facing out), new neutral stopper cam plate, and new cam plate screw (6x20 flat). Install the screw with Loctite, and stake in two places after tightening.



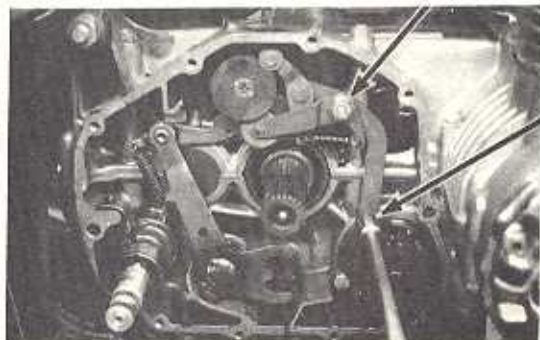
6. Remove upper hex bolt from bearing set plate and discard.



7. Assemble shift drum stopper, shift drum neutral stopper arm (checking that the two flat washers are on inboard side of neutral stopper arm), shift drum stopper spring, and collar.

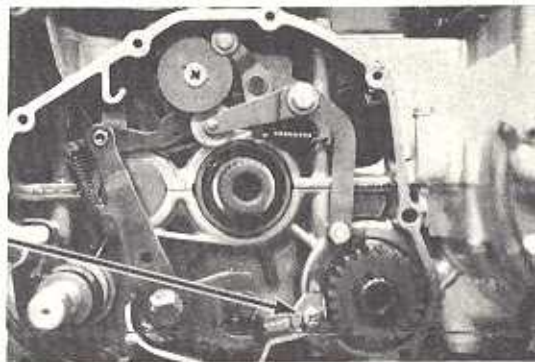


8. Install shift drum stopper assembly on the engine, using two 6x20 hex bolts.

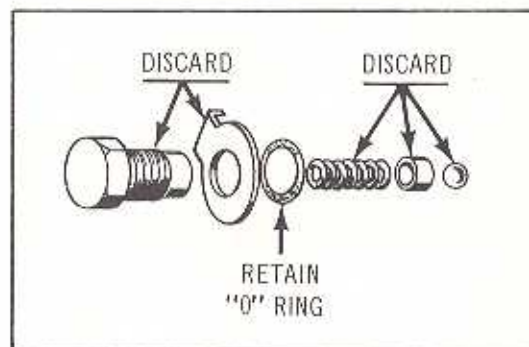


## MODIFIED CLUTCH AND SHIFTING MECHANISM (continued)

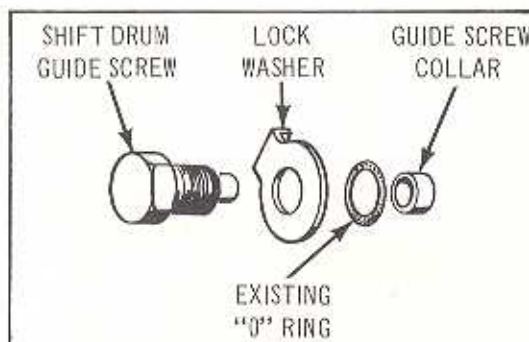
9. Remove and discard bearing set plate lower hex bolt, and install the new oil guide plate with a new 6x16 pan head screw. Position oil guide plate so there is adequate clearance for the primary drive gear, then tighten screw.



10. Remove existing shift drum guide screw, spring, and spring cap. Remove steel ball from engine with a magnet. Discard all parts except "O" ring.

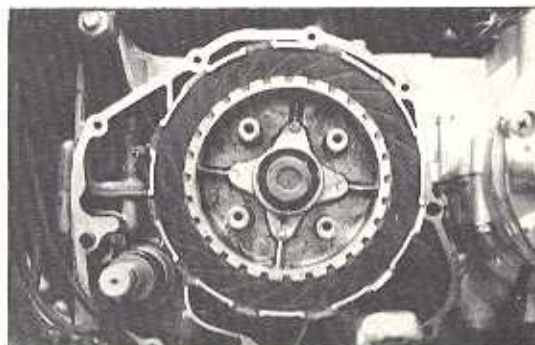


11. Assemble and install new shift drum guide screw with new lock washer, existing "O" ring, and new guide screw collar. (Use grease to retain guide screw collar during installation.) After tightening guide screw, bend lock washer up against hex head.



12. Replace existing clutch friction disks (7 required) and "B" clutch plates (6 required), with the modified disks and plates. Install the friction disks with the oil grooves slanted as shown. Reinstall clutch assembly and pressure plate on the engine.

**NOTE:** Check axial play in clutch assembly, and adjust with shim washers as described in Shop Manual.



### MODIFIED CLUTCH AND SHIFTING MECHANISM (continued)

13. Install modified right-hand crankcase cover with a new gasket, being sure to reinstall the three cord clamps in their original locations. Any problem with cover installation may be caused by misalignment of the oil guide plate, installed in Step 9.
14. Reinstall the following:
  - Right-hand foot peg.
  - Kick starter arm.
  - Left-hand crankcase cover. (Check that steel ball is in clutch lifter and wires are properly routed.)
  - Starter cover.
  - Gearshift pedal.
15. Fill crankcase with oil as described in the owner's manual or shop manual.
16. Check clutch adjustment. If adjustment is necessary, refer to the owner's manual or shop manual.

### PARTS INFORMATION:

H / C	Part Number	Description	Dealer Net
26374	06241-323-000	Shift modification kit	\$20.45

The following parts are included in kit P / N 06241-323-000:

H / C	Part Number	Description	Dealer Net
26389	24446-323-000	Shift drum guide screw	.13
26390	24447-323-000	Guide screw collar	.14
26397	24436-323-000	Neutral stopper cam plate	.46
26373	24434-323-000	Drum stopper cam plate	.21
26398	24437-323-000	Gearshift drum pin	.13
26399	24440-323-000	Shift drum neutral stopper complete	.46
26495	24430-323-000	Shift drum stopper complete	.54
26396	24435-323-020	Shift drum stopper spring	.14
02614	24438-216-000	Shift drum stopper collar	.17
05427	92000-06020	Bolt, hex 6x20 (2 reqd.)	.03
26371	22850-323-000	Clutch lifter rod	.88
26372	23106-323-000	Oil guide plate	.13
05745	93500-06016	Screw, pan 6x16 (1 reqd.)	.03
26377	22201-323-010	Clutch friction disk (7 reqd.)	1.00
26370	22321-323-000	Clutch plate B (6 reqd.)	.67
26375	11331-323-010	Right crankcase cover	9.25
26376	11394-323-010	Right crankcase cover gasket	.45
15317	90434-286-000	Washer, lock 12mm	.09
15325	91204-286-003	Oil seal, 18x29x7	.25