AMF | HARLEY-DAVIDSON **SERVICE BULLETIN**

M-805 SAFETY DEFECT CODE 052 October 31, 1980

WHEEL BEARINGS — 1980 FLT MOTORCYCLES

The front and/or rear wheel bearings on some 1980 FLT model motorcycles might fail due to lack of lubrication and inadequate sealing.

We have decided to declare this a safety defect and are recalling all 1980 FLT models, except those listed at the end of this bulletin, in accordance with the National Traffic and Motor Vehicle Safety Act. Although only a small number of these vehicles, approximately 10%, may be subject to actual bearing failure, all 1980 FLT models should be serviced as soon as possible. Service procedures are given later in this bulletin.

To take care of your immediate requirements, we will ship all Dealers two special Code 052 Service Kits, Part No. 93344, no charge, transportation prepaid.

Please determine the balance of Kits you will require and order only that number using the enclosed special blue Warranty Code 052 Parts and Accessory Order Form. The additional Kits will be shipped no charge, transportation prepaid only if ordered on the special blue order form. These service kits cannot be ordered any other way.

The no-charge shipment portion of this program will expire on August 15, 1981. After that date, any Kits ordered or any Kits shipped but not used will be charged to your account as a normal parts order item and you will receive parts and labor credit after the properly completed Code 052 Dealer Service Card is returned.

NOTE

Both front and rear wheel bearing assemblies must be replaced on each vehicle. Each service kit contains the parts required for both wheels.

Dealers will also be sent a special WHEEL BEARING INSTALLATION TOOL, Part No. 94440-81, and a can of WHEEL BEARING GREASE, Part No. 99855-80, at no charge. There is no need to order these parts separately.

All registered owners of record are being notified by mail to contact you and arrange to have this service performed at no charge to them. (See enclosed letter). Each registered owner letter will include a Dealer Service Card 052 which must be completed, dated, and signed by both the customer and the Dealer.

We are including a list of registered owners and a list of unregistered vehicles delivered to your Dealership which are involved in this Campaign. It is your responsibility to perform the required service on all potentially affected vehicles, including those which may not show up on your lists. We are enclosing sufficient blank Dealer Service Cards for those vehicles. If necessary, additional cards are available through the Service Department. Be sure to check the VIN list at the end of this bulletin to see if the service has already been performed at York prior to shipment.

IMPORTANT

Because only registered owners, as shown on the enclosed list, will receive notification from us, we request that you contact any owners of vehicles still listed as UNREGISTERED, warn them of the safety recall, and make arrangements for them to come in for service. We also request you provide us with their names, addresses and VIN's as soon as possible to enable us to mail them an owner's letter as required by the National Traffic Motor Vehicle Safety Act, as amended.

After servicing each motorcycle, be sure to completely fill out the special Dealer Service Card provided. Fill in your Dealer Account Number, the Service Code (in this case 052), the Vehicle Identification Number (VIN), and your Dealership name and address along with the owner information if it is blank. Be sure to place a "C" in the letter box and a quantity of "1" in the quantity box on each card. All cards must be signed and dated by both the customer and you.

The properly completed card and the replaced rear wheel sprocket assembly, front wheel bearing housing and both inner races, must be returned in the same box. Put a return address P-label, Form No. 1248, on the outside of the box containing the replaced parts and the Dealer Card(s) you are returning to us.

Upon receipt of a properly completed 052 Card and the replaced rear wheel sprocket assembly, front wheel bearing housing and both inner races, your account will be credited 4 hours for each vehicle serviced. This credit will cover the costs of labor and paper processing.

ROUTING:	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	CHIEF MECHANIC	MECHANIC NO. 1	MECHANIC NO. 2	MECHANIC NO. 3	MECHANIC NO. 4	RETURN THIS TO:
INITIAL HERE									

NOTE

If at any time you are not sure that a Safety Recall has been completed on a motorcycle, contact the Service Department for a computer check of our recall records. Remember that this recall should be performed on any recalled 1980 FLT regardless of its length of service.

REPLACEMENT PROCEDURE

Carefully raise the motorcycle so that both front and rear wheels are off the floor.

FRONT WHEEL BEARING

1. Remove the front wheel as described in the 1981 FLT Service Manual, Part No. 99483-81, on page 2-9.

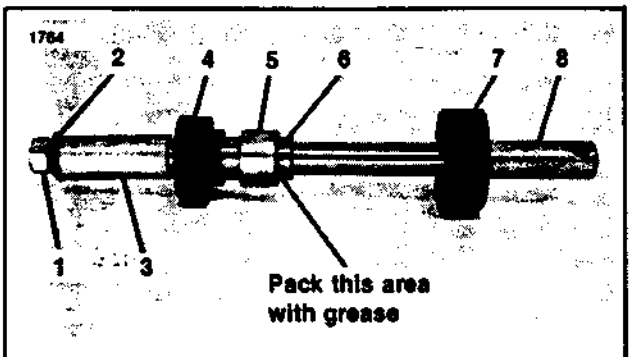
2. Disassemble the wheel as described in the 1981 FLT Service Manual with one exception. There is no need to remove the left disc.

NOTE

Right disc screws should be loosened with a hammer impact tool. If necessary, apply heat to the center of the screw head for 2-4 minutes each. Be sure not to hold the flame too close to the screw causing the metal to flow.

3. Place the 2¼" diameter pilot from the tool on the axle with the knurled side of the pilot against the head of the axle as shown in Figure 1. Insert the axle into the side of the wheel opposite the valve stem with the collar inside the counterbore of the wheel hub.

4. Lightly coat the outside diameter of the new INNER RACE, Part No. 41118-81, with the special grease and insert it into cavity of the bearing pilot of the tool as shown in Figure 1. Pack the new NEEDLE BEARING, Part No. 9116, with the special grease and install it over the inner race with the lettered side facing the bearing pilot. See Figure 1. Place a ridge of grease around the edge of the bearing as shown.



1. Axle nut
2. Axle flat washer
3. Sleeve A or B
4. Bearing pilot
5. Needle bearing
6. Inner race
7. 2¼" dia. pilot
8. Front Axle

Figure 1. Front & Rear Wheel Bearing Installation

WARNING

Be sure to install the bearing with the flat/lettered side facing the bearing pilot. Pressing on the wrong side of the bearing could damage the bearing case and destroy the bearing. For the same reason, do not pound on the bearing, axle or pilot to install the bearing.

WARNING

Do not get any grease on the brake discs, pads, or tires.

CAUTION

Be sure to keep dirt away from the bearing and inner race. Take care not to damage the bearing or inner race during installation.

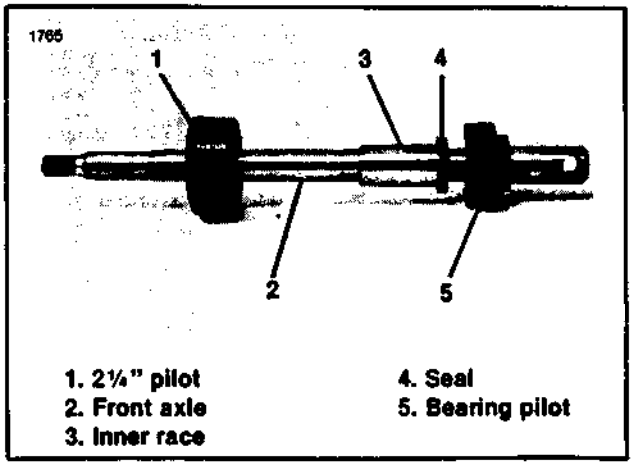
NOTE

See Figure 3. The retaining ring (3) should be discarded since it is not used with the new inner race (4A).

5. See Figure 1. Place this assembly on the axle followed by sleeve A, the axle flat washer and the axle nut. Tighten the nut until it bottoms on the axle threads.

6. Remove the nut, washer and sleeve A. Install sleeve B, washer and nut. Tighten the axle nut until the bearing pilot contacts the wheel hub. The bearing should now be recessed into the hub enough to allow room for the seal. Remove the sleeve, bearing pilot, inner race and axle.

7. See Figure 2. Place the bearing pilot on the axle with the axle head recessed inside the bearing pilot. Place the seal over the axle with the numbered side facing the flat side of the bearing pilot. Place the inner race on the axle and inside the seal. Insert the axle through the valve stem side of the wheel and through the 2¼" dia. pilot.



1. 2¼" pilot
2. Front axle
3. Inner race
4. Seal
5. Bearing pilot

Figure 2. Front & Rear Wheel Seal Installation

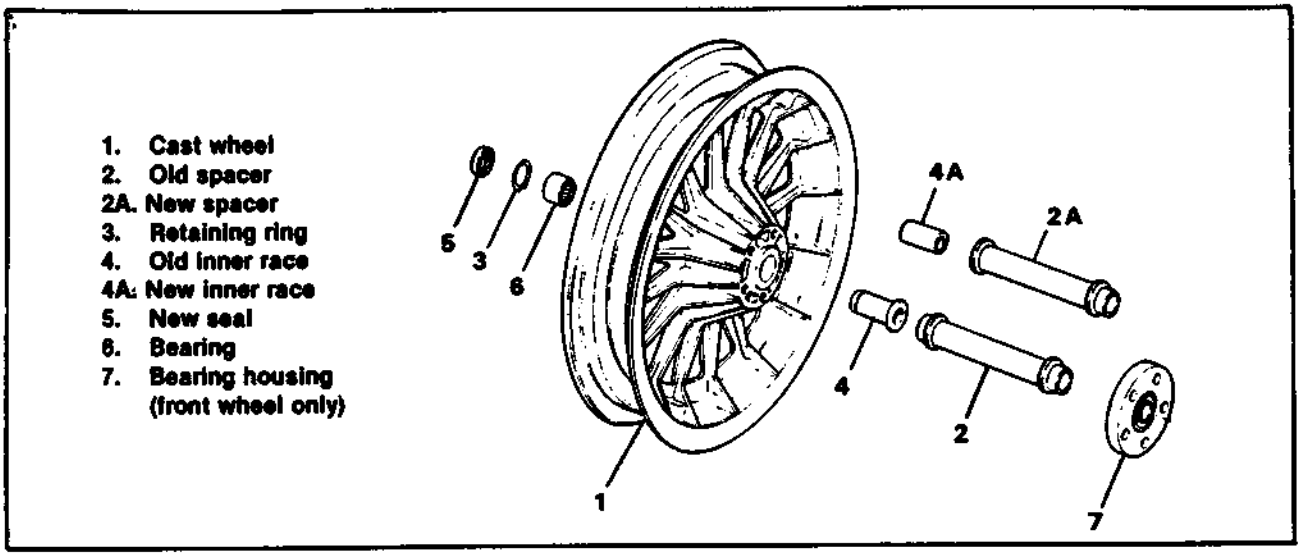


Figure 3. Wheel — Exploded View

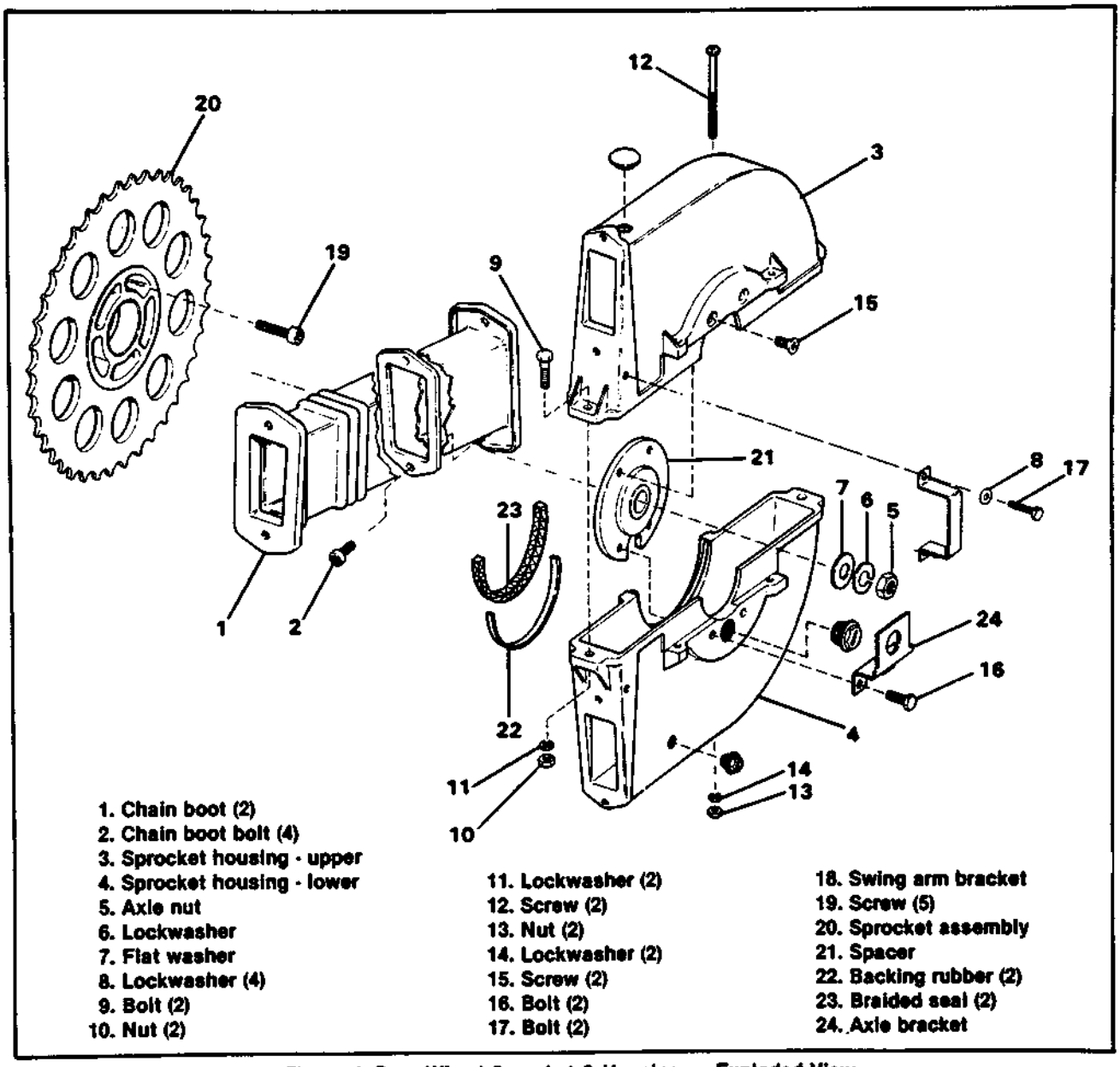


Figure 4. Rear Wheel Sprocket & Housing — Exploded View

8. With the 2¼" dia. pilot in place in the wheel hub, tap the seal in place by tapping the axle head with a mallet until the pilot is flush against the wheel hub. This will ensure the seal is not cocked or damaged during installation.

9. Remove the axle, bearing pilot and 2¼" dia. pilot, but leave the inner race inside the bearing and seal.

10. See Figure 3. Using moderate thumb pressure, insert the new SPACER (2A), Part No. 43644-81, as far as it will go into the opposite side of the wheel with the flatter end against the inner race (4A). The inner race should project slightly from the wheel hub and seal (5).

11. See Figure 3. Place the new BEARING HOUSING (7), Part No. 43939-79A, on the right side of the wheel.

12. Secure the right disc and bearing housing to the wheel with the 5 new DISC SCREWS, Part No. 1642. Tighten these screws to 45 ft-lbs torque.

13. Set the wheel aside for now as the front axle will be used to install the rear wheel bearing.

REAR WHEEL BEARING

1. Remove both saddlebags and mufflers.

2. See Figure 4. Remove the four bolts (2) fastening the upper and lower chain boots (1) to the sprocket housing (3 and 4).

3. See Figure 5. Pull the upper boot forward and rotate the rear wheel until the chain master link appears at the opening a few inches in front of the upper sprocket housing. Shift the transmission into first gear and remove the chain master link. Wire the front portion of the chain to the saddlebag bracket as shown to prevent the chain from rotating off the transmission sprocket.

4. See Figure 4. Unwrap the rear portion of the chain from the wheel sprocket. Remove the upper bolt (17) and washer (8) and bend the swing arm bracket (18) away from the swing arm. Remove the axle nut (5), lockwasher (6) and washer (7). Remove the axle and wheel with the sprocket housing attached.

CAUTION

Do not operate the rear brake pedal when the rear wheel is removed because the brake caliper piston may be forced out of the caliper bore. The brake system will require disassembly to reseat the piston.

5. See Figure 4. Remove the two sprocket housing bolts (9), nuts (10) and lockwashers (11). Remove the two screws (12), nuts (13) and lockwashers (14). Remove the two screws (15), bolts (16) and axle bracket (24) and separate the sprocket housing halves (3 and 4).

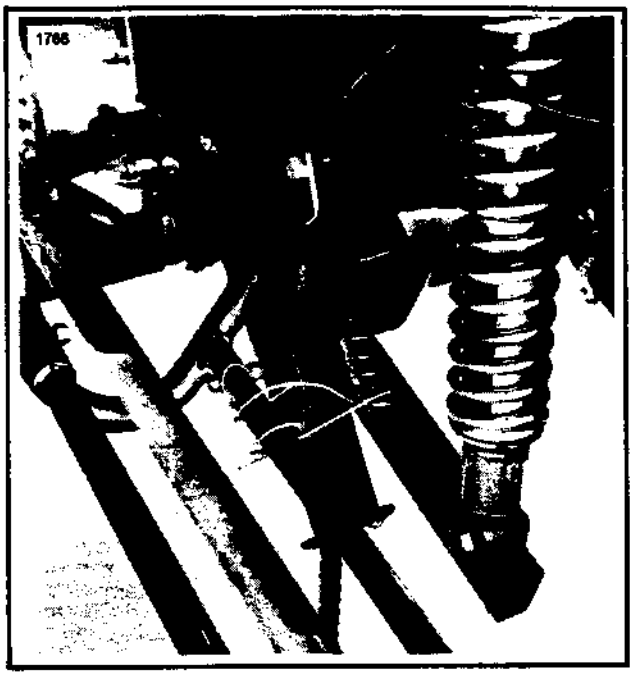


Figure 5. Wiring Chain to Saddlebag Bracket

6. See Figure 4. Remove the five sprockets screws (19) and sprocket assembly (20).

7. See Figure 3. Remove the inner spacer (2). Press out the bearing (6), inner race (4) and retaining ring (3) as an assembly, from the RIGHT to the LEFT side of the wheel using a 15/16" socket. See Figure 6.

Figure 6. Pressing Out Bearing Assembly

8. Install the needle bearing, inner race, seal and spacer as described in steps 3 through 10 for the front wheel.

9. Install the FRONT wheel on the motorcycle following the procedure given on page 2-10 of the 1981 FLT Service Manual.

10. See Figure 4. Install new SPROCKET ASSEMBLY (20), Part No. 41522-79A, on the wheel. Lubricate the five screws (19) with oil and alternately tighten all of them to 65-75 ft-lbs torque. Be sure the wrench is not cocked in the screw head giving a false torque reading.

11. See Figure 4. Remove the seals (23) from the sprocket housing halves and completely clean the housing removing all dirt and old sealant. Insert the new BACKING RUBBER (22), Part No. 25423-80, in the bottom of the housing grooves and trim the ends flush with the housing surface. Insert the new BRAIDED SEAL (23), Part No. 25414-80, in the groove on top of the backing rubber. Trim the ends so they project 1/32" above the housing surface.

12. See Figure 4. Insert the spacer (21) into the sprocket hub (20). Apply a coating of an RTV silicone sealant to the mating surface of the housing halves (3 & 4) and spacer (21) and ends of the seals (23). Attach the lower sprocket housing (4) and the axle bracket (24) to the spacer (21) with the two bolts (16). Be sure the notch in spacer aligns with the plug hole in the lower sprocket housing as shown in Figure 7.

13. See Figure 4. Reassemble the upper sprocket housing (3) to the spacer (21) and lower sprocket housing (4) using the two screws (15), the two bolts (9), lockwashers (11) and nuts (10) and the two screws (12), lockwashers (14) and nuts (13).

Figure 7. Assembling Sprocket Housing and Spacer

14. See Figure 4. Install the wheel assembly on the motorcycle, inserting the axle from the RIGHT side of the swing arm. Be sure the brake disc is between the caliper brake pads and the sprocket housing faces forward. Assemble flat washer (7), lockwasher (6) and nut (5) to left end of the axle finger tight.

15. See Figure 8. Shift transmission into neutral. Disconnect the wire from the chain and thread the top portion around the wheel sprocket until it reaches the lower opening. You may wish to wire the lower boot out of the way.

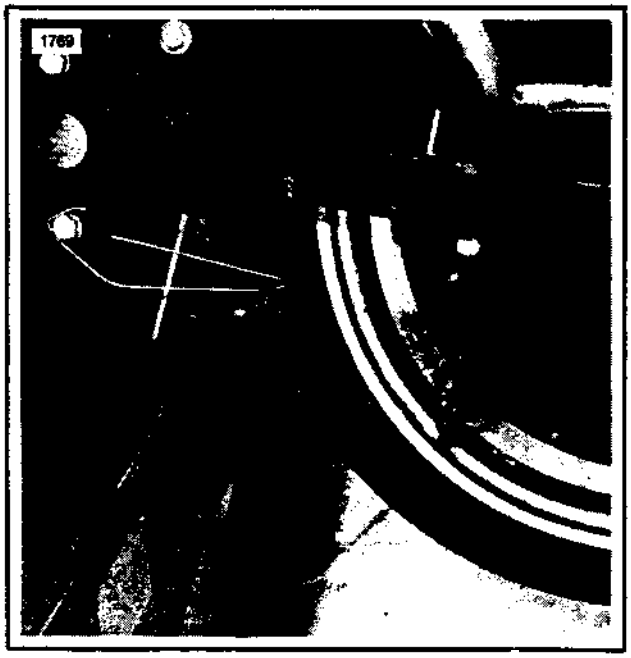


Figure 8. Reconnecting Rear Chain

16. Connect, adjust and align the rear chain. See page 2-4 of 1981 FLT Service Manual for proper procedure.

17. See Figure 4. Apply a coating of 3M 750 sealant to the rubber boots (1). Fasten the boots to the housing with the four bolts (2). Alternately tighten the bolts to 4-6 ft-lbs torque. Reposition swing arm bracket (18) and replace bolt (17) and washer (8).

18. Lubricate the rear chain as described on page 2-4 of the 1981 FLT Service Manual.

19. Check wheel alignment as described on page 2-13 of the 1981 Service Manual.

HARLEY-DAVIDSON MOTOR CO., INC.

5G00057JO
5G00227JO
5G03542JO
5G03566JO
5G03592JO
5G03633JO
5G03679JO
5G03680JO
5G03690JO
5G03703JO
5G03754JO
5G03780JO
5G03783JO
5G03791JO
5G03812JO
5G03816JO
5G03822JO
5G03897JO
5G03900JO
5G03911JO
5G03914JO
5G03916JO
5G03951JO
5G03960JO
5G03963JO
5G03985JO
5G03988JO
5G03990JO
5G04028JO
5G04052JO
5G04059JO
5G04073JO
5G04076JO
5G04078JO
5G04079JO
5G04086JO
5G04087JO
5G04088JO
5G04107JO
5G04132JO
5G04175JO
5G04197JO
5G04202JO
5G04290JO
5G04292JO
5G04298JO
5G04355JO
5G04356JO
5G04357JO
5G04358JO
5G04359JO
5G04360JO
5G04361JO
5G04363JO
5G04366JO
5G04374JO
5G04375JO
5G04376JO
5G04377JO
5G04384JO
5G04389JO
5G04395JO
5G04397JO
5G04399JO
5G04407JO
5G04408JO
5G04409JO
5G04411JO
5G04412JO
5G04413JO
5G04414JO
5G04415JO
5G04416JO
5G04418JO
5G04419JO
5G04421JO
5G04422JO
5G04423JO
5G04426JO
5G04429JO
5G04432JO
5G04433JO
5G04439JO
5G04440JO
5G04441JO
5G04442JO
5G04444JO
5G04445JO
5G04446JO
5G04447JO
5G04449JO
5G04452JO
5G04453JO
5G04454JO
5G04455JO
5G04456JO
5G04457JO
5G04458JO
5G04460JO
5G04462JO
5G04466JO
5G04472JO
5G04478JO
5G04479JO
5G04481JO
5G04482JO
5G04483JO
5G04484JO
5G04486JO
5G04490JO
5G04491JO
5G04493JO
5G04495JO
5G04497JO
5G04515JO
5G04516JO
5G04517JO
5G04518JO
5G04519JO
5G04520JO
5G04521JO
5G04522JO
5G04523JO
5G04524JO
5G04525JO
5G04526JO
5G04527JO
5G04528JO
5G04529JO
5G04530JO
5G04531JO
5G04532JO
5G04533JO
5G04534JO
5G04535JO
5G04537JO
5G04547JO
5G04549JO
5G04551JO
5G04558JO
5G04559JO
5G04561JO
5G04568JO
5G04569JO
5G04578JO
5G04573JO
5G04591JO
5G04592JO
5G04594JO
5G04595JO
5G04596JO
5G04597JO
5G04599JO
5G04600JO
5G04601JO
5G04602JO
5G04603JO
5G04605JO
5G04606JO
5G04607JO
5G04608JO
5G04611JO
5G04612JO
5G04619JO
5G04627JO
5G04628JO
5G04632JO
5G04634JO
5G04638JO
5G04641JO
5G04642JO
5G04644JO
5G04645JO
5G04646JO
5G04647JO
5G04648JO
5G04649JO
5G04650JO
5G04651JO
5G04652JO
5G04653JO
5G04654JO
5G04655JO
5G04657JO
5G04658JO
5G04659JO
5G04661JO
5G04662JO
5G04663JO
5G04664JO
5G04665JO
5G04666JO
5G04667JO
5G04668JO
5G04669JO
5G04670JO
5G04672JO
5G04673JO
5G04674JO
5G04675JO
5G04677JO
5G04678JO
5G04679JO
5G04680JO
5G04681JO
5G04682JO
5G04683JO
5G04684JO
5G04685JO
5G04686JO
5G04687JO
5G04688JO
5G04689JO
5G04690JO
5G04691JO
5G04692JO
5G04693JO
5G04694JO
5G04696JO
5G04697JO
5G04698JO
5G04699JO
5G04701JO
5G04702JO
5G04703JO
5G04704JO
5G04706JO
5G04707JO
5G04708JO
5G04709JO
5G04711JO
5G04712JO
5G04713JO
5G04714JO
5G04715JO
5G04716JO
5G04717JO
5G04718JO
5G04727JO
5G04729JO
5G04731JO
5G04732JO
5G04733JO
5G04734JO
5G04735JO
5G04736JO
5G04737JO
5G04739JO
5G04740JO
5G04741JO
5G04742JO
5G04743JO
5G04744JO
5G04745JO
5G04746JO
5G04747JO
5G04748JO
5G04749JO
5G04750JO
5G04751JO
5G04752JO
5G04753JO
5G04754JO
5G04755JO
5G04756JO
5G04757JO
5G04758JO
5G04759JO
5G04760JO
5G04764JO
5G04765JO
5G04766JO
5G04767JO
5G04768JO
5G04769JO
5G04771JO
5G04772JO
5G04774JO
5G04775JO
5G04776JO
5G04778JO
5G04779JO
5G04780JO
5G04781JO
5G04782JO
5G04783JO
5G04784JO
5G04785JO
5G04786JO
5G04787JO
5G04788JO
5G04789JO
5G04790JO
5G04791JO
5G04793JO
5G04794JO
5G04795JO
5G04796JO
5G04797JO
5G04798JO
5G04800JO
5G04801JO
5G04802JO
5G04803JO
5G04804JO
5G04805JO
5G04806JO
5G04807JO
5G04808JO
5G04809JO
5G04810JO
5G04811JO
5G04812JO
5G04813JO
5G04814JO
5G04815JO
5G04817JO
5G04818JO
5G04819JO
5G04820JO
5G04821JO
5G04822JO
5G04823JO
5G04824JO
5G04825JO
5G04826JO
5G04827JO
5G04829JO
5G04831JO
5G04832JO
5G04833JO
5G04834JO
5G04835JO
5G04836JO
5G04838JO
5G04839JO
5G04840JO
5G04841JO
5G04843JO
5G04844JO
5G04845JO
5G04846JO
5G04847JO
5G04848JO
5G04850JO
5G04852JO
5G04853JO
5G04854JO
5G04855JO
5G04858JO
5G04859JO
5G04860JO
5G04862JO
5G04863JO
5G04866JO
5G04867JO
5G04869JO
5G04870JO
5G04871JO
5G04873JO
5G04874JO
5G04875JO
5G04876JO
5G04878JO
5G04879JO
5G04880JO
5G04881JO
5G04883JO
5G04884JO
5G04887JO
5G04890JO
5G04894JO
5G04896JO
5G04897JO
5G04899JO
5G04900JO
5G04901JO
5G04902JO
5G04903JO
5G04904JO
5G04905JO
5G04907JO
5G04908JO
5G04909JO
5G04910JO
5G04911JO
5G04912JO
5G04913JO
5G04915JO
5G04917JO
5G04918JO
5G04920JO
5G04922JO
5G04923JO
5G04925JO
5G04926JO
5G04928JO
5G04929JO
5G04930JO
5G04931JO
5G04932JO
5G04935JO
5G04936JO
5G04937JO
5G04940JO
5G04942JO
5G04944JO
5G04945JO
5G04948JO
5G04950JO
5G04957JO
5G04958JO
5G04961JO
5G04966JO
5G04971JO
5G04997JO
5G04998JO
5G05006JO
5G05015JO
5G05030JO
5G05032JO
5G05057JO
5G05059JO
5G05061JO
5G05064JO
5G05067JO
5G05069JO
5G05070JO
5G05072JO
5G05074JO
5G05075JO
5G05078JO
5G05079JO
5G05081JO
5G05082JO
5G05083JO
5G05086JO
5G05087JO
5G05088JO
5G05089JO
5G05090JO
5G05091JO
5G05092JO
5G05094JO
5G05097JO
5G05098JO
5G05099JO
5G05101JO
5G05103JO
5G05104JO
5G05105JO
5G05118JO
5G05125JO
5G05126JO
5G05127JO
5G05128JO
5G05129JO
5G05131JO
5G05132JO
5G05133JO
5G05134JO
5G05135JO
5G05136JO
5G05137JO
5G05139JO
5G05140JO
5G05141JO

VINS Not Requiring Repair