

SERVICE BULLETIN



M-902A

December 20, 1985

LOCKING/SEALING COMPOUNDS AND TIRE FITMENT

Locking and Sealing Compounds

The products listed are designed to increase the retention of fasteners and to aid in minor repairs.

WARNING

For your personal safety, follow the directions on all listed products. Read all labels, warnings and cautions carefully before using the product.

CAUTION

Loctite products must not be used in applications that will cause the Loctite to contact thermoplastic parts (i.e.

fairings, saddlebag lids, seat pans). Exposure to Loctite can cause thermoplastic to become brittle.

Harley-Davidson Motor Company recommends the use of locking and sealing compounds as described in Table I. However, the Harley-Davidson Motor Company does not distribute the Loctite® or Duro® products listed. Hylomar® PL 32 sealants are available under the following Harley-Davidson part numbers:

99652-85 Hylomar® PL 32/L14 Spray Can, 5 oz.
99651-85 Hylomar® PL 32/L25 Can, w/brush
99653-85 Hylomar® PL 32/H Tube

TABLE I

| PRODUCT | COLOR | TYPE & APPLICATION |
|--|--------|---|
| Loctite® Threadlocker 222 | Purple | Adhesive, low strength — For fasteners of less than 1/4 in. dia. — General body hardware. |
| Loctite® Threadlocker 242 Duro Lock N' Seal® | Blue | Adhesive, medium strength — For 1/4 in. dia. and larger fasteners — Lock fender braces, master cylinder bolts, brake disc mounting bolts, brake achors, exhaust flanges and general body hardware. |
| Loctite® Threadlocker 271 Duro Stud N' Bearing® | Red | Adhesive, very high strength — For 1 in. dia. and smaller fasteners — Secure upper and lower fork assemblies, shock absorber mounts, fittings, axle nuts, shift lever screws, cylinder head and crankcase studs and handlebar clamps. |
| Loctite® Threadlocker 290 Duro Wick N' Lock® | Green | Penetrating material, high strength — Lock adjustment screws and assembled parts. Secure footrests and kick starters. |
| Loctite® RC/609 | Green | Retaining compound, 3000 psi shear strength — Retain brake pedal bushings, mainshaft sprockets, countershafts, oil seals, drive train, linkage, clutch hub and sprocket assemblies. |
| Loctite® RC/620 | Green | Retaining compound, high temperature, 3000 psi shear strength — Locking crankpin and flywheel nuts. |
| Loctite® Gasket Eliminator® 504 | Orange | Sealant, instant — Make emergency gaskets on-the-spot. Seal crankcase covers, cylinders to crankcase, oil pumps and rocker arm covers. |
| Loctite® Superbond® 495 | Clear | Adhesive, instant — bond brake pedal and kick starter pads. Secure loose hand grips. Repair loose windshield moldings and other rubber, vinyl and plastic components. |

| 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 | | | | | | | | | |

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TABLE I (CONT'D)

| PRODUCT | COLOR | TYPE & APPLICATION |
|--|-------|---|
| Loctite® Pipe Sealant With Teflon® | White | Sealant, general purpose — Seal threaded fuel line fittings, hydraulic brake line fittings, engine plugs and oil drain plugs. |
| Loctite® Anti-Seize | --- | Lubricant, heavy duty, temperature resistant — Prevent galling, seizing and corrosion on front and rear axles. |
| Loctite® Safety Solvent | --- | Cleaner, general purpose — Dissolve grease, dirt and oil from parts quickly and safely. |
| Locquic® Primer N | --- | General purpose primer — Used for Loctite® pipe sealants and flange sealants. |
| Locquic® Primer T | --- | Fast curing primer — Used for Loctite® threadlockers, retaining compounds and sealants. |
| Locquic® Primer NF 736 | --- | Very fast curing primer — Used for Loctite® threadlockers, retaining compounds and sealants |
| Hylomar® PL 32 | Blue | Sealant, non-hardening — Retain engine gaskets in place during assembly. Seal crankcase halves. |

WARNING

**HAZARDOUS CHEMICAL
METHYLENE CHLORIDE**

We have found Hylomar to be a very useful and effective product when properly used. However, we have recently learned that one of the chemical ingredients in Hylomar has become controversial and the manufacturer of Hylomar is changing the formulation. Because of the controversy about this chemical, the Environmental Protection Agency (EPA) initiated an investigation of its properties this year.

The ingredient is METHYLENE CHLORIDE (M.C.) M.C. is a chemical substance that has been used since the 1950's. It is an ingredient in most aerosol propellants and all Hylomar currently in the field. Until the EPA investigation establishes safe usage guidelines for products containing M.C., it should be considered a hazardous substance. Therefore we suggest the following precautions be followed when using Hylomar. We also suggest following these precautions when using any product that is aerosol propelled, or lists M.C. as an ingredient.

PRECAUTIONS

- M.C. cannot be detected by odor. You must **BE AWARE** of its presence in all products that use it.
- Avoid over-exposure. **DO NOT** use product continuously for long periods of time. **DO NOT** inhale fumes.
- Use product **ONLY** in a well-ventilated space.
- Do not allow contact with skin or eyes.

- Use a face mask and **ONLY VITON** or **POLYVINYL ALCOHOL** gloves. M.C. penetrates any other kind of glove and will even penetrate these gloves in a short time.
- Properly dispose of gloves after use. If glove contact areas show deterioration during use, throw them away and use another pair.
- **NEVER** leave a container of Hylomar (or other product containing M.C.) open or unsealed.
- Store Hylomar at a constant temperature; 41° F (5° C) to 86° F (30° C).

EXPOSURE ROUTES

M.C. can be inhaled, gain entry into body through eyes, skin or by swallowing.

SYMPTOMS OF OVER-EXPOSURE

Once in the body, M.C. is metabolized and becomes carbon monoxide. It acts as a central nervous system depressant. Symptoms may include dizziness, loss of coordination and nausea. In extreme cases, loss of consciousness may occur.

TREATMENT

Wash exposed areas with plenty of clean water and soap. Rinse eyes with clean water continuously for 15 minutes. Seek medical attention. If inhaled or in extreme cases, rest in fresh air and seek immediate medical attention.

REMEMBER

Prevention is better than cure!

1985 and 1986 Motorcycle Tire Fitment

The accompanying tire fitment chart gives the tire and tube combinations and the tubeless tires and tire valve combinations for all 1985 and 1986 models. Always refer to the label on the wheel rim for the proper tire series. See Figure 1 for a rim label illustration. Never use a tire from a series different than that called for on the label. For example, you should never put a WWW series tire on a wheel that calls for an SSS series tire.

WARNING

Use only Harley-Davidson WWW series tires on this rim. For proper fit use tire mounting lubricant and do not inflate over 40 psi to seat bead, otherwise, tire, tube or rim failure will result and may cause personal injury.

Figure 1. Sample Rim Label

WARNING

Always use rim strips with all laced wheels. Do not mix tire brands or tube type and tubeless tires on the same vehicle. Mismatching tires could cause handling difficulties and create an unsafe condition. Do not use tubeless tires on rims designed for tube type tires unless an inner tube is installed. Rims designed for tubeless tires

are marked "tubeless".

To find the correct tire and tube or tire valve for tubeless tires for a motorcycle, locate the tire series as given on the rim label, and the model of the vehicle in the left column of the tire fitment chart (Table II). The tire, tube and tire valve information is given in Tables II, III, VI and VII.

Example 1: The rear tire for an XLH must be a "WWW" with an "H" tube for laced wheels. For cast wheels the "WWW" tire would be used with an "S" valve.

Example 2: The rear tire for an FLTC must be an "SSS" with an "S" valve.

RECOMMENDED TIRE INFLATION PRESSURES

Tire inflation pressures are listed in the following Tables. These recommended inflation pressures supersede all previously published inflation pressures.

WARNING

Do not exceed the maximum tire pressure listed on tire sidewall.

The tire inflation pressures are based on rider and passenger weights of approximately 150 lbs each.

TABLE II

1985 MODELS — DUNLOP TIRE AND FITMENT

| MODEL | FRONT WHEEL | | | | | | |
|-----------------------------------|-----------------------|------------|---------|----------|---------------|--------------------------|----------------|
| | TIRES OEM (DUNLOP) | | | | TUBE OR VALVE | TIRE PRESSURE psi (COLD) | |
| | WHEEL | H-D SERIES | DESIGN | SIZE | | SOLO | WITH PASSENGER |
| XL MODELS | 19" LACED 19" CAST | YYY | K181 | MJ90-19 | K T | 26 | 26 |
| FXEF & FXSB | 19" LACED 19" CAST | YYY | K181 | MJ90-19 | K T | 30 | 30 |
| FXWG & FXST (EARLY 85) | 21" LACED | ZZZ | "F" RIB | MH90-21 | L | 30 | 30 |
| FXWG & FXST (LATE 85) | 21" LACED | ZZZ | "F" RIB | MH90-21 | L | 30 | 30 |
| FXRS & FXRT | 19" CAST | YYY | K291T | MM90H-19 | T | 30 | 30 |
| FXRC | 19" LACED | YYY | K291T | MM90H-19 | K | 30 | 30 |
| FXRP | 19" CAST | YYY | K181PT | MM90S-19 | T | 30 | — |
| FLHPC & FLHPB | 16" LACED 16" CAST | TTT | K101A | MT90-16 | H S | 28 | 28 |
| FLTC, FLHTC & FLHTP (EARLY 85) | 16" CAST | SSS | K101A | MT90-16 | S | 28 | 28 |
| FLTC, FLHTC & FLHTP (LATE 85) | 16" CAST | SSS | K291T | MT90S-16 | S | 36 | 36 |
| TLE (EARLY 85) | 16" CAST | SSS | K101A | MT90-16 | S | SEE TABLE IV | |
| TLE (LATE 85) | 16" CAST | SSS | K291T | MT90S-16 | S | SEE TABLE IV | |

TABLE II (CONT'D)

| MODEL | REAR WHEEL | | | | | | |
|-----------------------------------|-----------------------|---------------|--------|----------|---------------------|-----------------------------|-------------------|
| | TIRES OEM (DUNLOP) | | | | TUBE OR VALVE | TIRE PRESSURE psi (COLD) | |
| | WHEEL | H-D SERIES | DESIGN | SIZE | | SOLO | WITH PASSENGER |
| XL MODELS | 16" LACED 16" CAST | WWW | K181 | MT90-16 | H S | 30 | 32 |
| FXEF & FXSB | 16" LACED 16" CAST | WWW | K181 | MT90-16 | K T | 32 | 32 |
| FXWG & FXST (EARLY 85) | 16" LACED | TTT | K101A | MT90-16 | H | 28 | 28 |
| FXWG & FXST (LATE 85) | 16" LACED | WWW | K181 | MT90-16 | H | 32 | 32 |
| FXRS & FXRT | 16" CAST | WWW | K291T | MT90S-16 | S | 36 | 40 |
| FXRC | 16" LACED | WWW | K291T | MT90S-16 | H | 36 | 40 |
| FXRP | 16" CAST | WWW | K181PT | MT90S-16 | S | 32 | — |
| FLHPC & FLHPB | 16" LACED 16" CAST | TTT | K101A | MT90-16 | H S | 36 | 36 |
| FLTC, FLHTC & FLHTP (EARLY 85) | 16" CAST | SSS | K101A | MT90-16 | S | 36 | 36 |
| FLTC, FLHTC & FLHTP (LATE 85) | 16" CAST | SSS | K291T | MT90S-16 | S | 36 | 40 |

TABLE III

1986 MODELS — DUNLOP TIRE AND FITMENT

| | FRONT WHEEL | | | | | | |
|----------------|-----------------------|---------------|-------------------|----------|---------------------|-----------------------------|-------------------|
| MODEL | TIRES OEM (DUNLOP) | | | | TUBE OR VALVE | TIRE PRESSURE psi (COLD) | |
| | WHEEL | H-D SERIES | DESIGN | SIZE | | SOLO | WITH PASSENGER |
| | | | | | | | |
| XL MODELS | 19" LACED 19" CAST | YYY | K181 | MJ90-19 | K T | 26 | 26 |
| FXWG & FXST(C) | 21" LACED | ZZZ | "F" RIB | MH90-21 | L | 30 | 30 |
| FXR MODELS | 19" CAST | YYY | K291T | MM90H-19 | T | 30 | 30 |
| FXRP | 19" CAST | YYY | K181PT | MM90S-19 | T | 30 | — |
| FLHTP | 16" LACED | SSS | K291T (RIBBED) | MT90S-16 | S | 36 | 36 |
| FLT MODELS | 16" CAST | SSS | K291T | MT90S-16 | S | 36 | 36 |
| TLE | 16" CAST | SSS | K291T | MT90S-16 | S | SEE TABLE IV | |
| RLE | 16" CAST | SSS | K291T | MT90H-16 | S | SEE TABLE V | |

TABLE III (CONT'D)

| | REAR WHEEL | | | | | | |
|----------------|-----------------------|---------------|--------|----------|---------------------|-----------------------------|-----------|
| MODEL | TIRES OEM (DUNLOP) | | | | TUBE OR VALVE | TIRE PRESSURE psi (COLD) | |
| | WHEEL | H-D SERIES | DESIGN | SIZE | | WITH | |
| | | | | | | SOLO | PASSENGER |
| XL MODELS | 16" LACED 16" CAST | WWW | K181 | MT90-16 | H S | 30 | 32 |
| FXWG & FXST(C) | 16" LACED 16" DISC | WWW | K181 | MT90-16 | H T | 32 | 32 |
| FXR MODELS | 16" CAST | WWW | K291T | MT90S-16 | S | 36 | 40 |
| FXRP | 16" CAST | WWW | K181PT | MT90S-16 | S | 32 | — |
| FLHTP | 16" CAST | SSS | K291T | MT90S-16 | S | 36 | 40 |
| FLT MODELS | 16" CAST | SSS | K291T | MT90S-16 | S | 36 | 40 |

TABLE IV

FLT MODELS — DUNLOP TIRE PRESSURE FOR OPERATION WITH SIDECAR (TLE)

| TYPE OF OPERATION | FRONT | | REAR | | SIDECAR | |
|---|-------|-------|-------|-------|---------|-------|
| | K101A | K291T | K101A | K291T | K101A | K291T |
| SOLO | 28 | 36 | 36 | 40 | 28 | 28 |
| RIDER AND SIDECAR PASSENGER | 28 | 36 | 36 | 40 | 28 | 28 |
| RIDER AND SIDECAR PASSENGER, AND PASSENGER ON MOTORCYCLE | 28 | 36 | 40 | 40 | 28 | 28 |

TABLE V

FXR MODELS — DUNLOP TIRE PRESSURE FOR OPERATION WITH SIDECAR (RLE)

| TYPE OF OPERATION | FRONT | | REAR | | SIDECAR |
|---|---------------|-------|---------------|-------|---------|
| | K181PT (FXRP) | K291T | K181PT (FXRP) | K291T | K291T |
| SOLO | 30 | 30 | 32 | 36 | 28 |
| RIDER AND SIDECAR PASSENGER | 30 | 30 | 32 | 40 | 28 |
| RIDER AND SIDECAR PASSENGER, AND PASSENGER ON MOTORCYCLE | — | 30 | — | 40 | 28 |

TABLE VI
INNER TUBES (See Notes below)

| TUBE GROUP | SIZE | VALVE STEM TYPE | VALVE STEM POSITION |
|------------|--------------------------|-----------------|---------------------|
| H | MT90-16 (5.00/5.10 - 16) | Metal (1) | Side |
| K | MJ90-19 (3.25/3.50 -19) | Rubber (2) | Center |
| L | MH90-21 (3.00/3.25 -21) | Metal (3) | Center |

- (1) Fits 11/32 in. (0.344) diameter valve stem hole.
(2) Fits 29/64 in. (0.453) diameter valve stem hole.
(3) Fits 21/64 in. (0.328) diameter valve stem hole.

NOTES:

Rim strips must be used with all laced wheels.

Inner tubes are available from various manufacturers. The Carlisle Tire & Rubber Company is now a production supplier of inner tubes. The address and telephone numbers of two full line Carlisle distributors are listed below:

Sure Fire Distributing
50 Coxe Avenue
Ashville, North Carolina
(800) 438-5821

Motion Sports
1202 South Bennett Avenue
Tyler, Texas
(214) 595-3544

TABLE VII
TUBELESS TIRE VALVES

| VALVE GROUP | H-D PART NUMBER | RIM VALVE HOLE DIAMETER |
|-------------|-----------------|-------------------------|
| S | 43157-83A | 0.34 in. |
| T | 43150-83 | 0.45 in. |