HTT

Harsco Track Technologies

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SERVICE BULLETIN
MAINTENANCE OF WAY EQUIPMENT

DATE: 11-8-2001 **BULLETIN NO:** 01-022

TITLE: HYDRAULIC MOTOR DRIVEN VIBRATOR UNITS

RATING:

- ☐ **DIRECTIVE** (Action Is Required)
- ☐ **ALERT** (Potential Problem)
- ☒ **INFORMATION** (Action Is Optional)
- ☐ **PRODUCT IMPROVEMENT** (Enhance Product)

PRODUCT SERIES / MODEL: JRM, STM, MK III, MK IV and MK VI Tamping Machines

SERIAL NO: JRM (All Models), STM (All Models), MK III (Models HTR and HSTR), MK IV (All Models) and MK VI (All Models)

SUMMARY: There are some differences between the hydraulic vibrator motors used on the above machines. Due to these differences, the vibrator motors cannot be moved from some of the machines to the others.

OPERATIONAL IMPACT: To ensure the correct hydraulic vibrator motor is installed on the machine for the proper operating speed. If a vibrator motor from a MK IV was installed on a STM, or vice-versa, the vibrator motor would not be operating at the proper speed.

ACTION: To identify the hydraulic motor that is used on the vibrator unit for the proper operating speed.

CONTACT: If you have any questions or if we can be of any service, please contact the Service Department at the Columbia, SC. facility, (800) 345-9160.

HYDRAULIC MOTOR DRIVEN VIBRATOR UNITS

Hydraulic motor driven vibrator units have been used on Harsco Track Technologies tamping machines since 1980. Currently they are used on JRM (all models), STM (all models), MK III (models HTR and HSTR), MK IV (all models) and MK VI (all models). There are some differences between the hydraulic vibrator motors used on these machines. Due to these differences, the vibrator motors cannot be moved from some of the machines to the others.

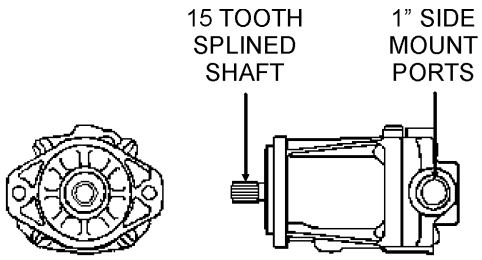
The displacement of the hydraulic vibrator motors are matched to the hydraulic pump on a specific type of machine which will result in the vibrator unit operating at approximately 3,000 RPM. If a vibrator motor from a MK IV were installed on a STM, or vice-versa, the vibrator motor would not be operating at the proper speed.

JRM - STM - MK III - See Figure 1

JRM and STM use vibrator assembly part # 0-20010512-0-01 (2/3 amplitude) or vibrator assembly part # 0-2010512-0-02 (full amplitude). MK III uses vibrator assembly part # 0-2010512-0-02. The vibrator serial number is stamped into the vibrator housing.

These vibrator assemblies use a Vickers hydraulic motor part # 0-3321014-0-02. This motor has 1” side mounted ports, a 15 tooth splined shaft, and a 2.5 cubic inch displacement.

FIGURE 1
0-3321014-0-02 MOTOR



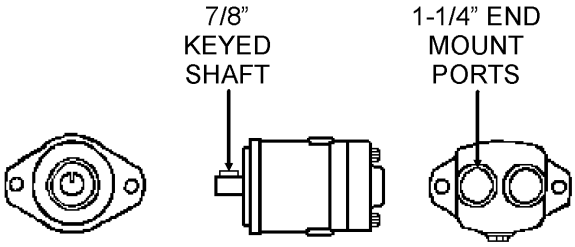
Note: A limited number of these vibrator assemblies were built with Hydreco hydraulic motors part # 0-3321021-0-01 which was specified by certain customers.

MK IV - MK VI - See Figure 2

MK IV and MK VI use vibrator assembly part # C0607VAA.

This vibrator assembly uses a Vickers hydraulic motor part # 0-3321014-0-04. This motor has 1-1/4” end mounted ports, a 7/8” keyed shaft with a 1/4” key, and a 1.29 cubic inch displacement.

FIGURE 2
0-3321014-0-04 MOTOR



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