

PURPOSE

To provide instructions for installing the optional exhaust manifold P/N 70297 on the TCR air hoist.

SCOPE

Some hoist users do not want the TCR hoist exhaust to be expelled in the immediate environment. To accommodate this need it is possible to extend the TCR hoist exhaust to another area. The following procedure describes the method to install an optional exhaust manifold and extend the TCR exhaust.

OPTIONAL EXHAUST MANIFOLD INSTALLATION

1. TCR Exhaust Disassembly

- 1.1 Remove three bolts retaining the exhaust manifold to the valve body (Fig 1).
- 1.2 Remove the exhaust manifold and silencer from the valve body (Fig 2).

2. TCR Exhaust Extension Assembly

- 2.1 Replace exhaust manifold gasket if damaged.
- 2.2 Install exhaust manifold gasket and optional exhaust manifold on valve body using the bolts removed in step 1.1. **NOTE:** It is recommended that the silencer material is NOT installed in the new manifold. If the exhaust is to be piped more than 30 feet away, the silencer material may cause a drop in performance of the hoist.
- 2.3 Torque the bolts to 103 in-lbs (Fig 3).
- 2.4 Install ½ inch NPT X 2 ½ inch long pipe nipple into either side of the new exhaust manifold. This pipe nipple MUST NOT be more than 4 inches long (Fig 3).
- 2.5 Install ½ inch NPT to 1 inch NPT adapter onto the ½ inch NPT pipe nipple (Fig 3).
- 2.6 Install a 1 inch pipe/ or 1 inch hose barb and hose into the adapter. This pipe/hose should be a minimum diameter of 1 inch and no longer than 60 feet (Fig 3). *The larger the pipe/hose diameter the better the hoist will perform. Using a pipe/hose of less than 1 inch diameter will affect hoist performance. Using a pipe/hose longer than 60 feet will also affect hoist performance.*
- 2.7 Exhaust the pipe/hose to the area desired.
- 2.8 Install a ½ inch NPT pipe plug into the opposite side of the exhaust manifold (Fig 3).

TCR OPTIONAL EXHAUST MANIFOLD INSTALLATION INSTRUCTIONS



Fig 1



Fig 2



Fig 3