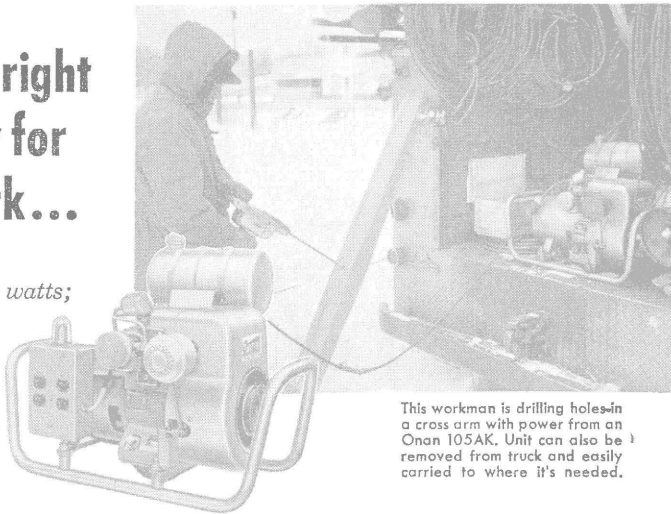


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weighs only
125 pounds;
4-cycle
engine power



This workman is drilling holes in a cross arm with power from an Onan 105AK. Unit can also be removed from truck and easily carried to where it's needed.

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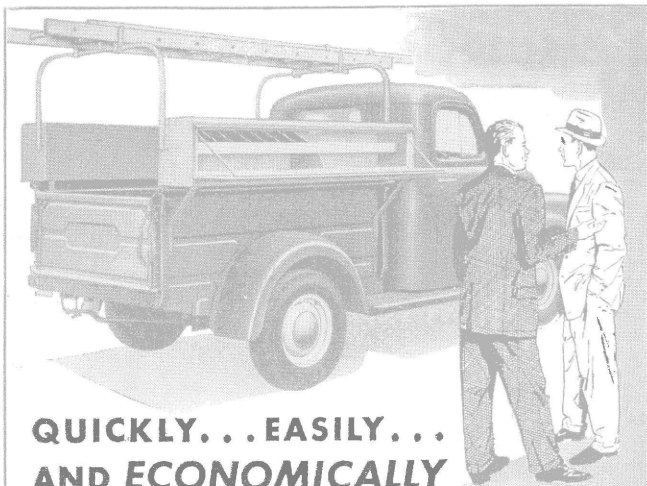
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vided on the control machine and a permanent telephone installation in the field for use by trainmen.

The above arrangement was used in the last two interlockings installed on this road, because the leverman's location being such that he did not have a full view of the entire track layout and also was not in position where he could converse with train crews or maintenance forces except by telephone.

Portable Telephones

BY VIRGIL O. DRYER
Signal Engineer
Kansas City Terminal
Kansas City, Mo.

In a new interlocking installation our practice has been to use portable telephone communication between the men in the field and the tower when checking the position of switches and the signals cleared. The interlocking cables are used for this service and, therefore, provide connections in all relay cases. These connections can be extended to remote signals, when required, giving the men direct contact with each other. This method is not a part of and does not disturb the regular communication system, primarily designed for the handling of trains.

Air Line Leak

If a hole rusted out in an air line at an electro-pneumatic interlocking, how could the defect be remedied quickly?

Switch Spiked

BY J. E. HOUSER
Supervisor Signals
Chesapeake & Ohio
Ashland, Ky.

Present C&O practice is as follows: Should a leak be detected in a cross-run to an electro-pneumatic switch from the main air line, the switch is immediately spiked until a temporary $\frac{3}{4}$ in. air hose can be run between the switch and the main air line, which will by-pass the defective pipe until permanent repairs are made to the defective pipe. At large electro-pneumatic interlockings two such air hoses, 50 ft. in length, are maintained complete with suitable connections. The majority of main air lines are above ground and should a leak be detected in the main line, that portion of the main line is sectionalized and either temporary hose or a small portable air compressor is used on the end of the main air line beyond the defective pipe.