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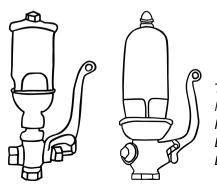
"An engine whistles; something tugs at you, deep inside. Sort of gets you, a locomotive whistle kind of makes you want to climb aboard."

- S. Kip Farrington, Jr.

What do steam whistles do?

Before steam whistles were used bells, flags, and lanterns were used to communicate between railroad employees. The problem with these is they could only be used when they were communicating with someone near the train. If the engineer was trying to communicate around corners over a long distance, they had no way to do it.

Steam whistles fixed that problem. They could be put on the engine and used by the engineer. Steam whistles could be heard from miles away to "talk" to other trains, track crew, and bystanders.







Steam whistles come in many shapes and sizes. Different types of whistles can make different sounds. Each engineer also has a style of their own. They communicate through special patterns that are known to other railroad employees.

Top: The first D&RG Steam Locomotive, Montezuma, built in 1871 Middle: Cumbres & Toltec 463, built in 1903 Bottom Right: A dual port whistle Bottom Left: A single Port Whistle

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STEAM WHISTLES

Find the words listed below in the grid.



BELL	FLAG	STEAM
BOILER	SAFETY	TRAIN
COAL	SIGNS	WARN
ENGINEER	SIGNAL	WOOD
FIRE	STATION	WHISTLE

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How do steam whistles work?

Steam whistles are powered by steam blown through the whistle. Steam is produced by the steam engine when water is boiled by a fire.

The fire may be fueled by wood, coal, or oil. The coal or wood is put into the firebox where it burns and heats the boiler. The water is boiled, and steam is released. Most of the steam produced by the steam engine is used to power the engine's gear and wheels, allowing the locomotive to move along the tracks.





The engineer can pull a cord that activates a lever inside the locomotive. The lever opens a valve releasing steam through the whistle. As the steam moves through the whistle, it produces sound. There are several types of steam whistles, each making different tones and sounds.



What do steam whistles communicate?

Steam whistles communicate:

- Safety Messages & Warnings
- Information
- Instructions

Signs along the railroad tell the engineer when to blow the whistle and which signal to use.

Types of Safety Warnings:

- Letting bystanders know a train is coming
- Warn people and animals to stay out of the tracks
- Warn about bridges, tunnels, curves, and other things ahead of the train





Types of Informational & Instructional Messages:

- Tell passengers the train is getting ready to leave
- Tell passengers and bystanders the train is coming into a station
- Provide information about what movements the train is making

Whistle Signals on the Cumbres & Toltec Scenic Railroad Whistle sounds must be distinct. They must have an intensity and duration that can be heard across long distances. The "•" is for short sounds and the "—" is for longer sounds.			Sound	Indication	
		к	● _	Approaching public road crossing. To be prolonged or repeated a minimum of 15 seconds and a maximum of 20 seconds and until engine is through crossing.	
	Sound	Indication	L		Approaching station.
Α	•	Apply brakes. Stop.	М	●	Approaching waiting or meeting point.
в		Proceed. Go.	N	_●	Warning at locations where view is obstructed. Response to yellow flag. Warning to persons on or near track.
с	$- \bullet \bullet \bullet$	Flagman protect rear of train.			
D	$\bullet \bullet \bullet -$	Flagman protect front of train.	ο	••••••	(Succession of short sounds) Warning to persons or livestock on track and in imminent danger.
E		Flagman return from west or south/5-minute departure warning			Engineer with control of air brakes set brakes
F		Flagman return from east or north	Ρ	•-•	and cut doubleheading cock. Engineer on lead engine take control of air brakes and acknowledge by repeating whistle signal.
G		Train has parted.			
н	••	Release brakes. Answer to any signal not otherwise provided.	Q	••-	Engineer on second engine take control of air brakes. When engineer on second engine has control of air brakes, acknowledge by
I	•••	When standing, back up. When running stop at next station.	R	•-	repeating whistle signal. Inspect train line for leaks or brakes sticking.
J	••••	Call for signals.	S		Track patrolman return to train.
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