

FUSEE

Getting Started — the immersive conductor companion for your model railroad

Railworks Studio

What Fusee does

Fusee is a conductor's companion that runs on your Android phone. You pick the job you are about to do on the layout — line a switch, couple cars, open a car door — and Fusee walks it with you in real time: the right sounds, the right crew radio calls, and the right waiting time between each move.

Everything happens on the phone. There is no account to make, no signal needed, and nothing leaves the device. Fusee works the same in the basement, in the barn, or at a show with no Wi-Fi at all.

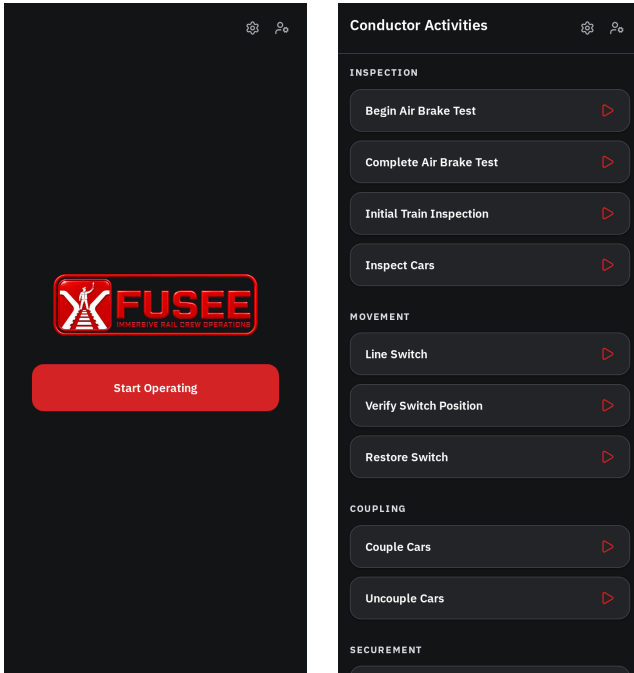
Three things worth knowing

- **Action Elements** are the smallest pieces — a hand brake being wound, a radio call, a walk between cars.
- **Activities** are the jobs you actually run, built from those elements. Fusee ships with a full set and you can build your own.
- **Your throttle** matters. Fusee asks what you run trains with, and that decides what happens when an Activity is over.

Install: Fusee is on Google Play. Search for **Fusee** by Railworks Studio, tap Install, and let Play keep it updated automatically — new versions arrive on their own over Wi-Fi.

Your first run

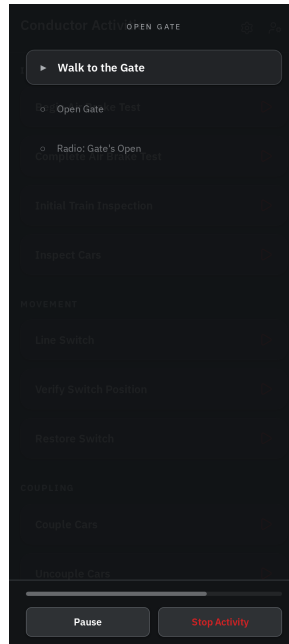
Open Fusee and tap **Start Operating**. You land on the Conductor Activities list, grouped the way a shift actually runs.



Left: the home screen. Right: the Activity library, grouped by kind of work.

Running an Activity

- Tap an Activity. It starts immediately and the steps tick off as they complete.
- **Pause** holds everything, sound included. Tap again to carry on where you left off.
- **Stop Activity** ends it and returns you to the list.
- Some Activities wait for you on purpose. **Couple Cars** stops at the point where you would go work the throttle, and waits for you to tap **Continue**.

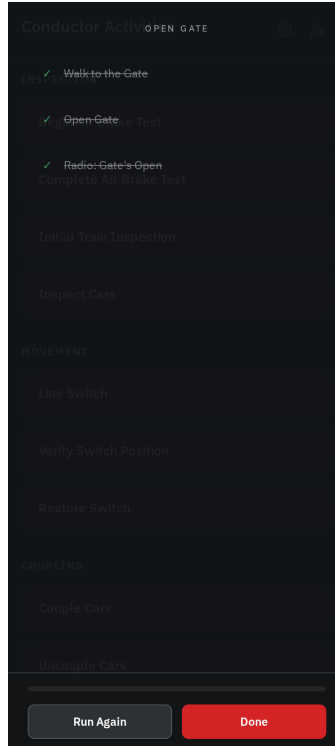


An Activity running. Completed steps are struck through; the bar at the bottom is the progress of the whole job.

When an Activity finishes

A finished Activity offers you two things, and never asks you to resume something that is already done.

- **Run Again** starts the same Activity over from the first step. This is the one you want when the next boxcar needs the same treatment.
- **Done** closes back to the Activity list.



The finished Activity: Run Again for another round, Done to go back.

If you stepped away

An Activity keeps running while you are in another app. When you come back, Fusee brings it up where it was — still running, or already finished with Run Again and Done waiting. Nothing is thrown away behind your back, and nothing clears itself on a timer.

Your throttle, and Return to Throttle

Open **Settings** from the gear icon and pick what you actually run trains with. This is the single most important setting in Fusee, because it decides what happens at the end of a job.

Physical Throttle

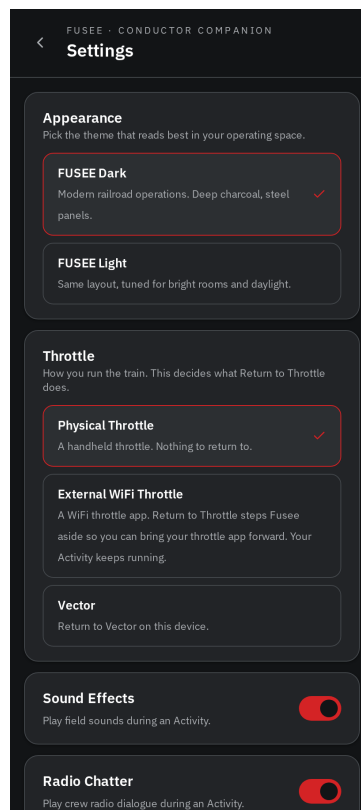
A handheld throttle in your hand. There is nothing on the phone to go back to, so a running Activity shows only **Pause** and **Stop Activity**. When it finishes you get Run Again and Done, and you pick your throttle back up.

External WiFi Throttle

A throttle app such as Engine Driver or WiThrottle. **Return to Throttle** steps Fusee aside into the background so you can bring your throttle app forward — from the recent-apps view or its icon. Your Activity keeps running the whole time, and switching back to Fusee drops you straight into it.

Vector

Railworks Studio's own throttle on the same phone. **Return to Throttle** switches to Vector directly. Coming back from Vector reopens the Activity you left, still running, with its sound and timing intact.



Settings: theme, throttle, and the sound and vibration switches.

Return Behavior

This choice only appears when you have picked **Vector**, because Vector is the only throttle Fusee can open for you.

- **Manual** — you tap Return to Throttle when you are ready. At the end you get the finished screen with Run Again and Done.
- **Automatic** — the moment an Activity finishes, Fusee goes straight to Vector. Nothing is shown in between. When you switch back to Fusee you are on the Activity list, and you tap the Activity again for another round.

Couple Cars is the exception in both modes: its hand-off point sits in the middle of the job, exactly where a real conductor would go work the throttle, and it waits for your **Continue**.

Sound and feel

- **Sound Effects** — the field audio: brakes, couplers, gates, air.
- **Radio Chatter** — the crew calls. Turn it off if you would rather do the talking.
- **Vibration Feedback** — a light tap as steps advance and complete.
- **Appearance** — FUSEE Dark for the layout room, FUSEE Light for daylight and bright spaces.

The phone's Back button

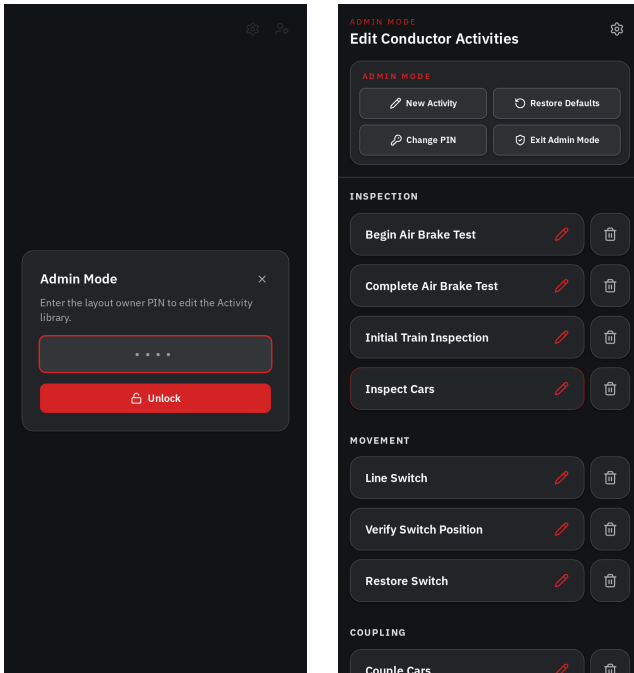
Fusee never lets Back throw away work by accident.

- While an Activity is running and on screen, Back sets Fusee aside — the Activity keeps running.
- If the Activity is already set aside, Back brings it back on screen.
- In the builder with unsaved edits, Back asks before discarding them.
- On the home screen, Back asks whether you want to leave Fusee: choose **Leave** or **Stay**.

Only **Stop Activity** ends a job early. Back never does.

Admin Mode

Editing the Activity library is reserved for the layout owner, so it sits behind a PIN. Tap the person icon on the home screen and enter your PIN. The starting PIN is **1234** — change it under **Change PIN**.



Left: the PIN prompt. Right: Admin Mode, with the editing tools above the library.

What Admin Mode gives you

- **New Activity** — build one from scratch.
- The pencil beside any Activity — edit it.
- The trash icon beside any Activity — delete just that one. Everything else stays as it is.
- **Restore Defaults** — put the whole shipped library back, replacing your edits. Fusee asks first.
- **Change PIN** and **Exit Admin Mode**.

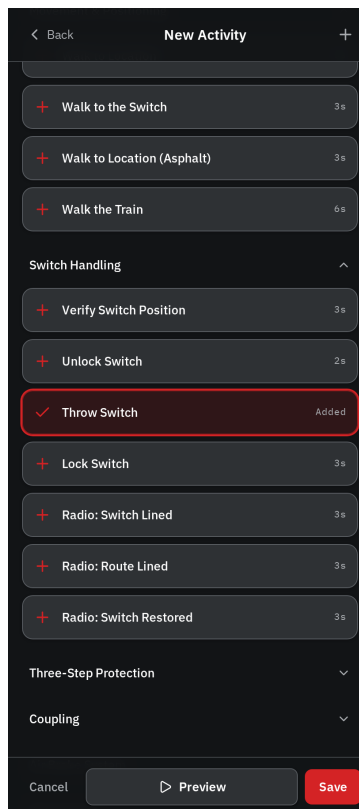
Keep your PIN somewhere safe. There is no recovery. If you change it and forget it, the only way back in is clearing Fusee's app data in Android settings, which also clears your Activity library.

Building your own Activity

From Admin Mode tap **New Activity**. Give it a name, choose a category, then build it from the Action Elements listed below in groups.

Adding steps

Tap an element to add it to the end of your Activity. It confirms straight away: the element you tapped turns highlighted and reads **Added**, the new step flashes in the list above, and the phone gives a light tap.

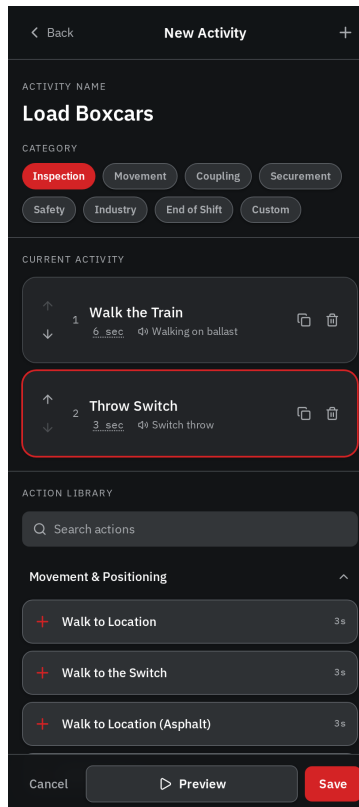


Tapping an element confirms it: a highlight, a check, and the word Added.

Arranging steps

Every step in your list has its own controls, so nothing depends on dragging:

- The up and down arrows move a step earlier or later — add one in the wrong place and just nudge it.
- Duplicate copies a step, handy for repeated moves.
- Delete removes it.
- Tap a step to adjust its timing.



Your Activity's steps, each with move, duplicate and delete controls.

Preview, then save

- **Preview** walks the timing of your Activity so you can feel its length and rhythm. It is timing only — no audio plays in preview.
- **Save** stores it in the library. If the name is already taken, Fusee tells you instead of quietly overwriting the other one.
- **Cancel** backs out, and warns you first if you have unsaved changes.

Tips from the layout

- Build short Activities for anything you repeat. Run Again then covers a whole row of cars with one tap each time.
- Turn Radio Chatter off when you are operating with a crew who do their own calling.
- With a WiFi throttle, keep only Fusee and your throttle app open — switching between two apps stays quick and predictable.
- Some throttle apps warn you when they go to the background. That is the throttle app talking, not Fusee, and it is harmless.

If something looks wrong

- No sound: check Sound Effects and Radio Chatter in Settings, then the phone's own volume and silent switch.
- An Activity you expected is missing: Admin Mode, then Restore Defaults brings the shipped library back.
- Coming back from your throttle and Fusee looks blank: give it a moment — it reopens the Activity rather than restarting it.

Fusee — Railworks Studio. Built for conductors, offline by design.

If Fusee cannot reach Vector

Automatic return depends on Vector being installed on the same phone. If Fusee tries to switch to Vector and it cannot be opened, the Activity does not simply disappear. Fusee stops and tells you what happened:

Couldn't Return to Vector

Vector could not be opened. Check that Vector is installed and review your throttle settings.

Settings opens your throttle settings.

Activities returns to the library.

Most often this means Vector is not installed, or it was removed. You can keep using Fusee exactly as before by choosing Physical Throttle or External WiFi Throttle in Settings, or by switching Return Behavior back to Manual.