AVISTRATA
AVIATION BUSINESS PLATFORM

IPC Parts Lists: Step by Step

From the manufacturer's parts catalog to a kit on the task card

November 9, 2026 (updated) · Avistrata 2.2

PREPARED FOR

Document controllers, quality managers, stores and mechanics

The people who keep the technical data library, run stores and kit task cards

FROM

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What this does

Avistrata reads the parts list out of an Illustrated Parts Catalog (IPC) PDF: every figure, item, part number, description, quantity per assembly, serial effectivity and supersession. Once it's read and approved, anyone can browse it in Stores, mechanics can tick parts straight onto a task card's kit, and you can keep prepared parts lists (kit templates) for the jobs you do again and again. Stock on hand is reserved for the card; the rest goes to stores as a request.

- The example is a **Piper Seneca III/IV parts catalog (761-750)** and a nose strut reseal on a fictional aircraft, N834SA, S/N 3448040.
- Included in the full Avistrata plans and Workshop, not in Avistrata Light.

1. Add the IPC
Drop the PDF in Technical data. The details fill themselves in.

2. Read it
One click reads every figure and part.

3. Check and approve
Spot-check, then approve for everyone.

4–6. Use it
Browse, search, pick parts for a task card.

7–10. Prepared kits
Build a kit, check stock and order, apply it to the right aircraft.

Who	Steps
Document controller or quality manager	1, 2, 3 (keep the IPC current: a new revision is read and approved again)
Stores, lead mechanics, planners	4, 5, 7, 8, 9 (browse, search, build the kits, check stock and order what's short)
Mechanics	6 and 10 (add parts to the kit on their task card)

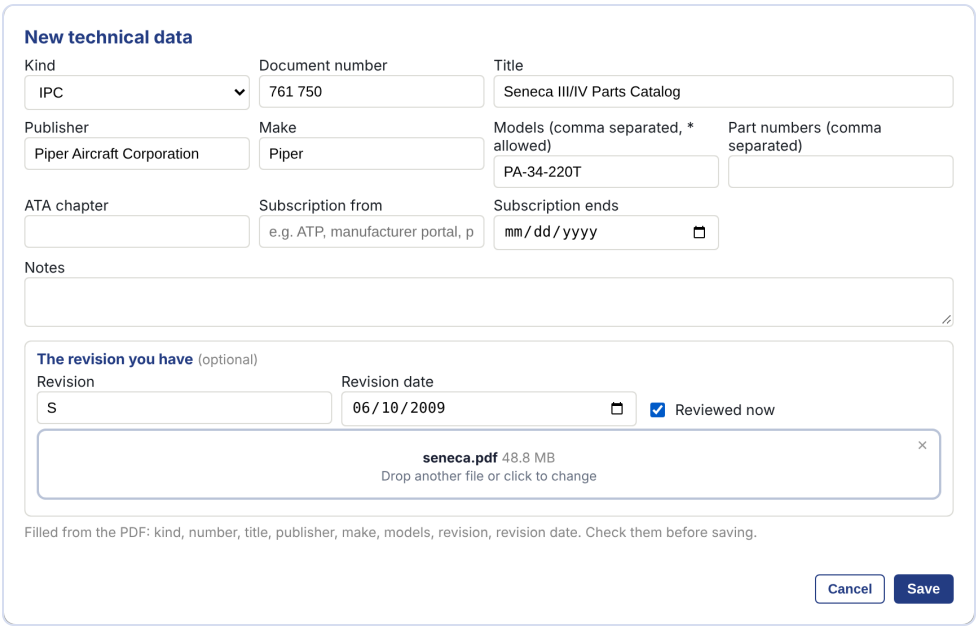
Catalogs it reads	Layout
Cessna / Textron	Fig/item, part number, nomenclature with indent dots, effectivity from-to, units per assembly; chapter-section-subject footers (e.g. 32-00-00). FSO (for spares order) supersessions.
Piper	Figure and index number, part number, code, nomenclature with * indents, no. required, serial numbers affected. Sections from the table of contents; code letters from the code explanation pages.
Cirrus	No pic, item, part number, symbol, attach, nomenclature with • indents, effective from-to, units; figures by chapter-section-figure (e.g. 21-40-01). "For spares use P/N" and alternates.
Simple parts tables	Index, part number, description, units per assembly (e.g. American Champion), including scanned manuals that have OCR text.

1 Add the IPC to Technical data DOCUMENT CONTROLLER

1. Open **Quality → Technical data** and click **+ New document**.
2. Drop the IPC PDF on **The revision you have**. Avistrata reads the cover pages and fills in what's still empty: kind (IPC), document number, title, publisher, make, models, revision and revision date. A line under the form says what it filled.

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3. Check the fields and change anything you want (here the title is shortened). Add your own name for the model to **Models** if your aircraft records use it, e.g. *PA-34-220T, Seneca III*: task cards on that model then open this IPC by themselves.
4. Tick **Reviewed now** if you've reviewed this revision, and click **Save**.



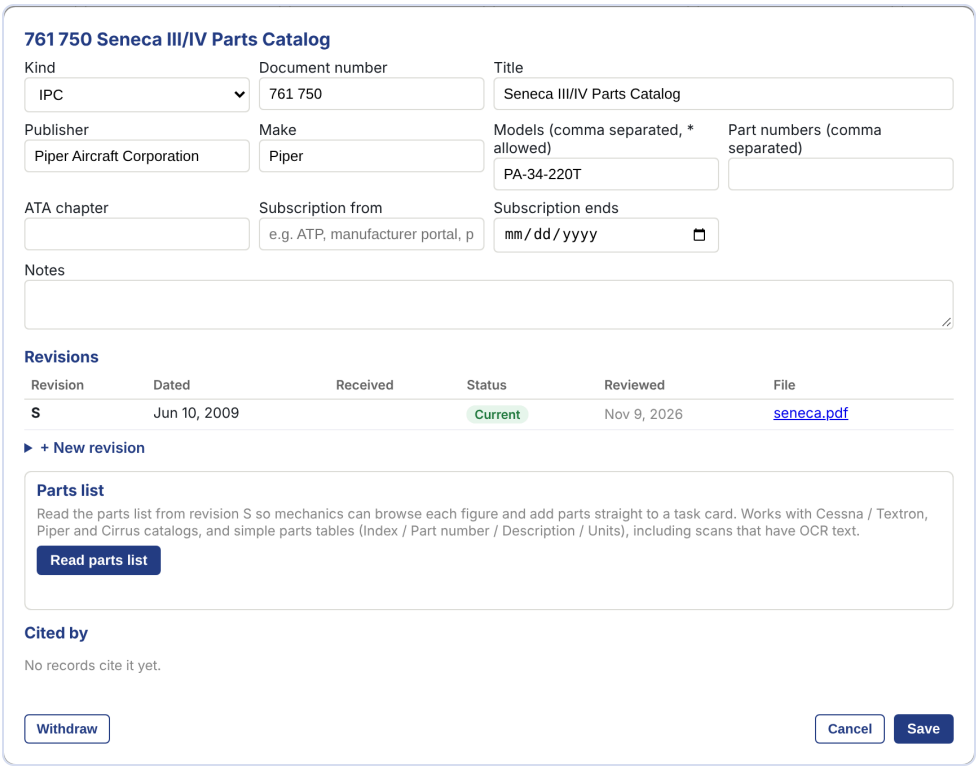
New technical data: everything above the file was filled in from the PDF's cover.

> **LARGE FILES** Technical data takes manuals and IPCs up to 500 MB. If a large upload is refused, an administrator raises the file size limit in Supabase → Storage → Settings.

2 Read the parts list DOCUMENT CONTROLLER

1. Open the IPC document. Under its revisions there's a **Parts list** box.
2. Click **Read parts list**. The PDF is read in your browser: a few seconds for most catalogs, about a minute for a 1,300-page one.

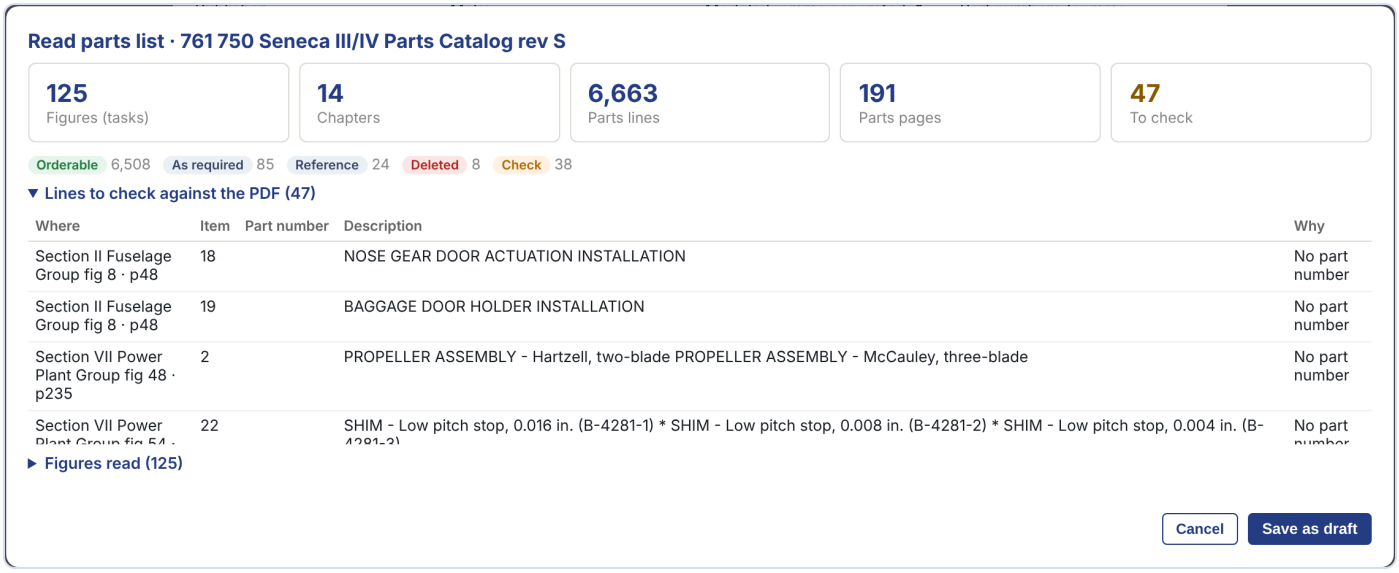
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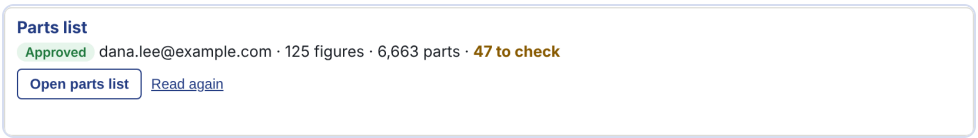
The IPC document with its current revision and the Parts list box.

3 Check it and approve DOCUMENT CONTROLLER · QUALITY MANAGER

1. The review shows how many figures (tasks), parts lines and pages were read, the lines by status, and **Lines to check against the PDF**: the few lines with no quantity or no part number printed, with the PDF page to look at.
2. Click **Save as draft**. Open it with **Check the parts list** and compare two or three figures with the PDF.
3. Click **Approve**. Only approved lists of the current revision show in Stores and on task cards.



The review: 125 figures and 6,663 parts lines read from the Seneca catalog, 47 lines to check.



Approved: the list is now in Stores and on task cards.

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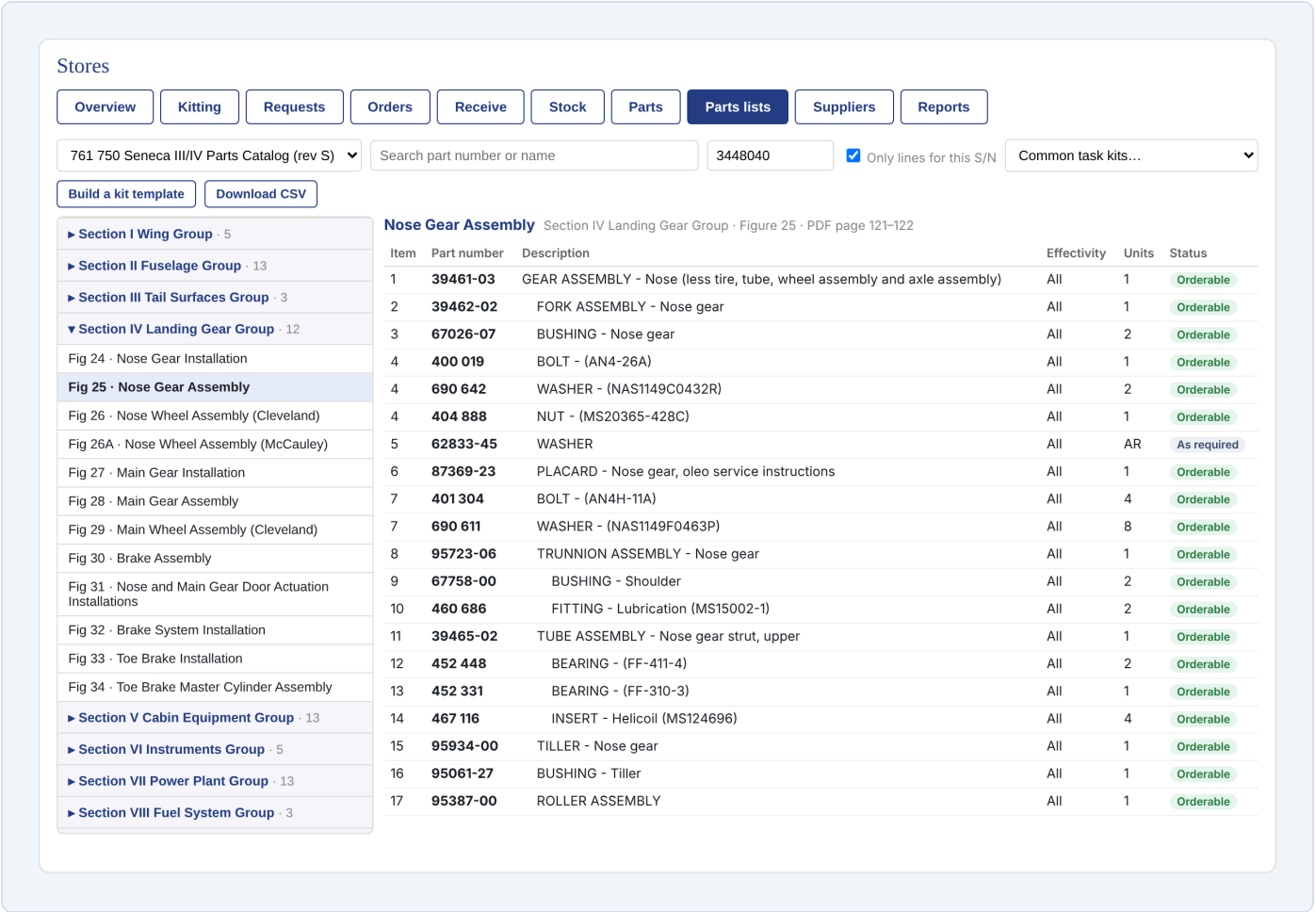
A NEW REVISION Add it under **+ New revision** with its PDF, read it and approve it. Task cards and Stores switch to the new revision's list.

SCANS A scanned manual works only if the PDF has OCR text. The review warns when it does: check the flagged part numbers (O for 0, I for 1). With no text at all, run Acrobat's Scan & OCR → Recognize text and upload it again.

4 Browse a parts list ANYONE

1. Open **Stores → Parts lists** and pick the IPC at the top left.
2. Open a section or chapter on the left, then a figure: each figure is an assembly or installation, the "task".
3. Type an aircraft serial number and tick **Only lines for this S/N** to hide parts that don't apply to it.

Each line shows the item, part number, description (indented under its assembly), effectivity, units per assembly and status: **Orderable**, **As required**, **Not procurable** (ordered as the replacement shown in gold), **Reference** or **Deleted**. Code and symbol notes from the catalog are under the description: click one to read all of it. **Download CSV** gives you the whole list, or only the serial number's lines.

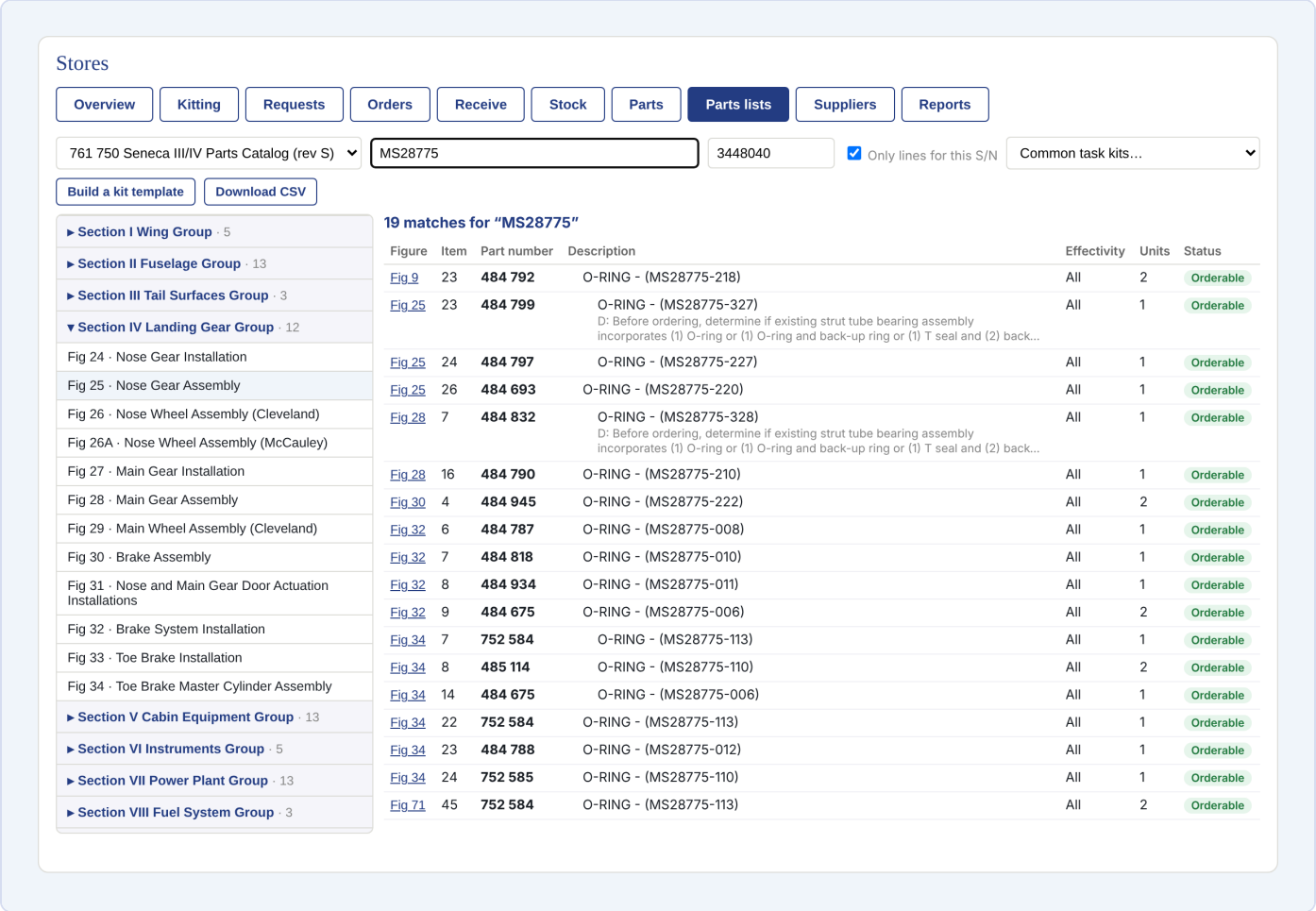


Stores → Parts lists: Figure 25, Nose Gear Assembly, for S/N 3448040.

5 Find a part ANYONE

Type a part number (with or without dashes and spaces) or words from the description in the search box. The matches come from every figure, each with its figure: click the figure to open it. Useful for "where else is this O-ring used?" and to check a part number before ordering.

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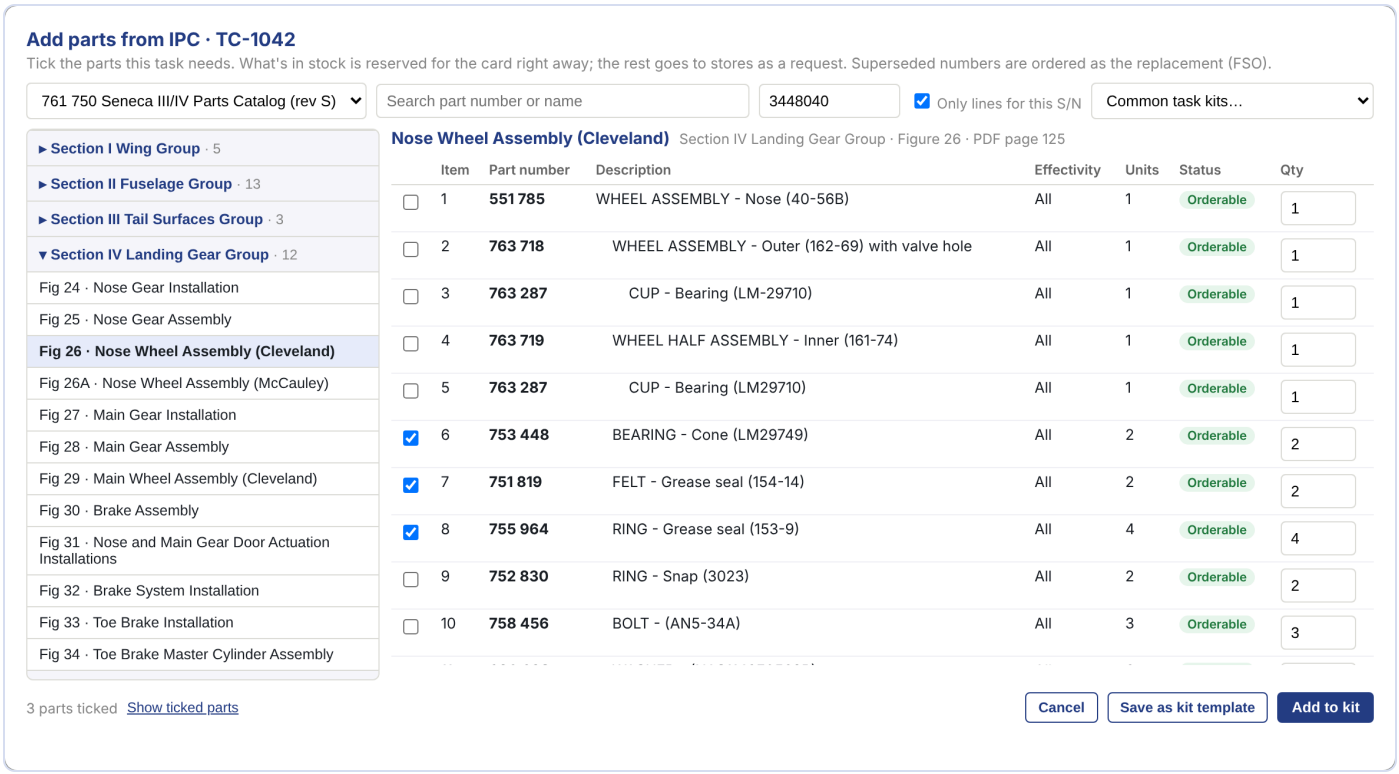


Search for MS28775: every O-ring of that series in the catalog and the figure it's in.

6 Pick parts for a task card MECHANIC

1. On the task card, next to the kitting badge, click **Add parts from IPC**. It opens on the IPC for that aircraft's model, already filtered to its serial number.
2. Open the figure, or search, and tick the parts. Set each quantity (it starts at the quantity per assembly). Ticks stay while you move to other figures; **Show ticked parts** lists them.
3. Click **Add to kit**. What's in stock is reserved for the card right away; the rest is requested from stores. A part that's been superseded is ordered as its replacement.

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Add parts from IPC on TC-1042: the nose wheel's bearing cone, grease seal and felt ticked.

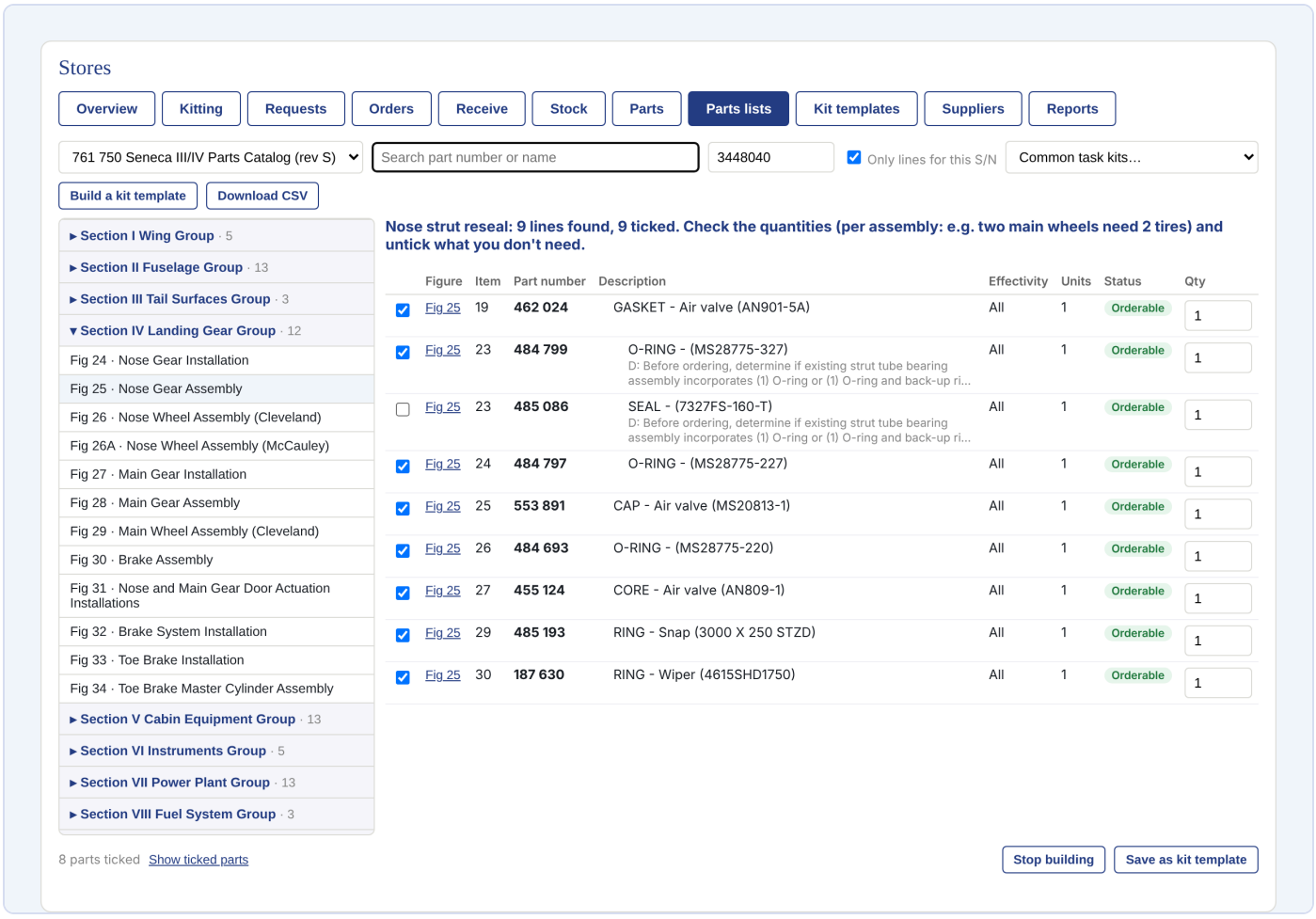
7 Start from a common task kit STORES · LEAD MECHANIC

For jobs you do again and again, start from **Common task kits…** (in Stores → Parts lists, and in Add parts from IPC). Pick the task and Avistrata finds its parts in the IPC you're looking at and ticks them, the first of each set of alternates only:

- Main and nose wheel tire and tube change · brake lining replacement · brake O-rings and seals · master cylinder reseal
- Nose and main strut reseal · battery · ELT battery · induction air filter · oil and filter change · fuel strainer · vacuum filters
- Exterior lamps · spark plugs · windshield

1. Type the serial number first to only see its lines.
2. Go through the list: untick what you don't need and set the quantities. Quantities are **per assembly**: two main wheels need 2 tires. Where the catalog lists either/or parts (here code D: the O-ring or the T-seal, depending on the strut's bearing), keep the one your aircraft has.

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Common task kits → Nose strut reseal: 9 lines found in Figure 25; the T-seal unticked, the O-ring kept.

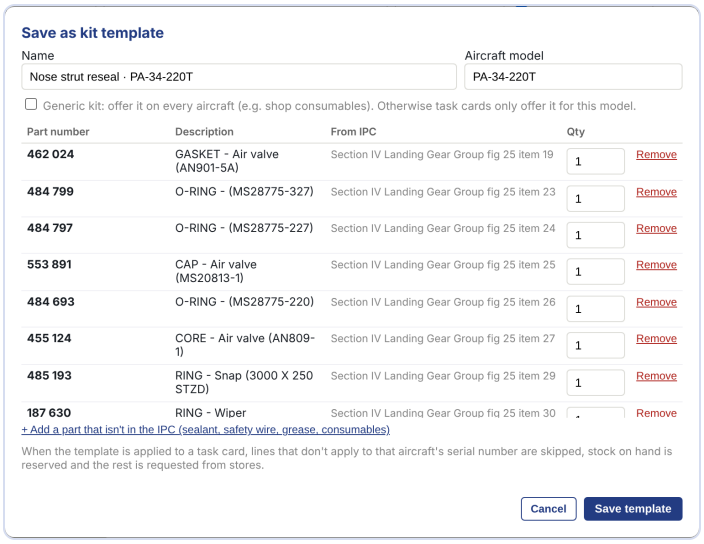
> **NOT IN THIS IPC?** Oil filters, spark plugs and brake linings are often in the engine or the vendor's (wheel and brake) catalog. Read that IPC as well, or search and tick the parts yourself, then save the template.

8 Save it as a kit template STORES · LEAD MECHANIC

1. Click **Save as kit template**. Name it so people find it, e.g. *Nose strut reseal · PA-34-220T*.
2. Check the **Aircraft model**: task cards only offer the kit for aircraft of this model (and the models of its IPC). Several models can be separated by commas, e.g. *PA-34-220T, Seneca III*; *PA-34** covers every model that starts with PA-34. Tick **Generic kit** only for kits that fit any aircraft, such as shop consumables.
3. Check the quantities. Add what the IPC doesn't list with **+ Add a part that isn't in the IPC**: hydraulic fluid, sealant, safety wire, grease.
4. Click **Save template**. The kit is now in **Stores → Kit templates**.

To build one from scratch, click **Build a kit template** in Stores → Parts lists and tick parts from any figures.

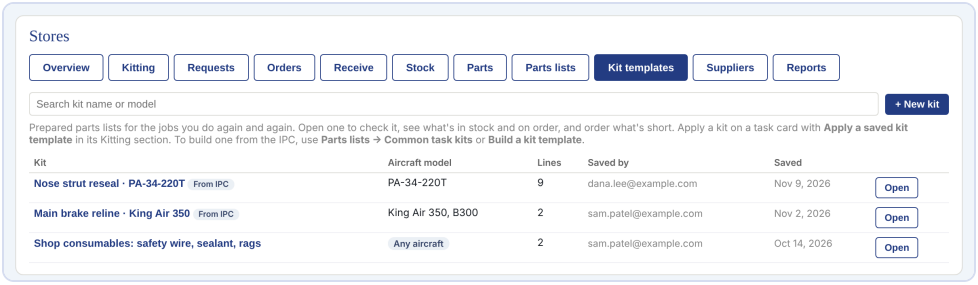
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Saving the nose strut reseal kit, with two quarts of hydraulic fluid added.

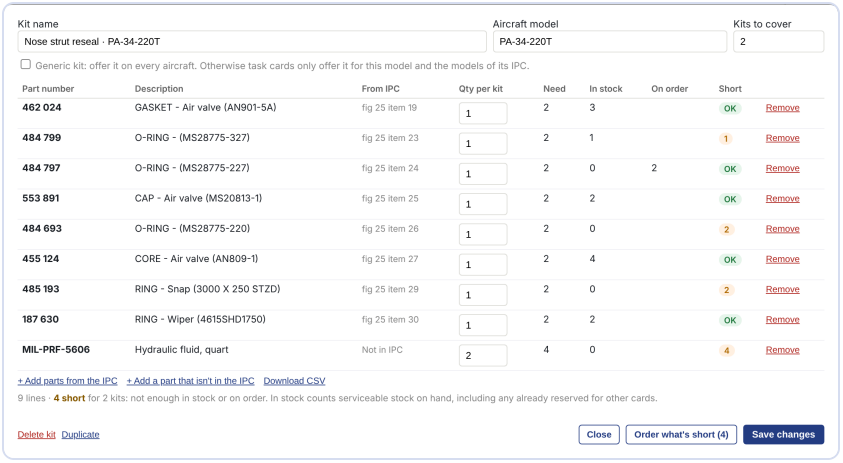
9 Review kits, check stock, order what's short STORES · PLANNER

Every saved kit is in **Stores → Kit templates**, with its aircraft model (or **Any aircraft**), number of lines and who saved it. Search by kit name or model, or click **+ New kit** to start one by hand.



Stores → Kit templates: two kits for one model each and a generic kit.

1. Click **Open** on a kit. Change its name, model, quantities and lines; **+ Add parts from the IPC** opens the same picker as the task card. Click **Save changes**.
2. Set **Kits to cover** to how many of these jobs you want parts for, e.g. 2. Each line shows what's **needed**, **in stock** (serviceable on hand) and **on order** (open requests and purchase orders), and how many are **short**.
3. Click **Order what's short**. Stores gets one request per short part, for the shortfall only (Stores → Requests), and the kit counts them as on order straight away, so nothing is ordered twice. **Download CSV** gives you the kit with the stock check.



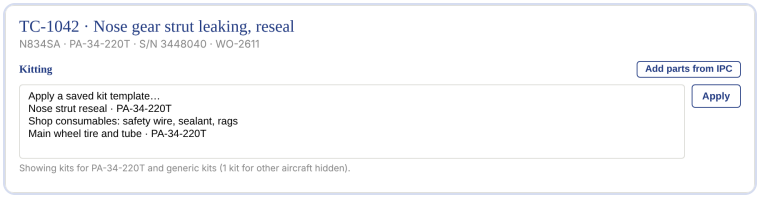
The nose strut reseal kit for 2 kits: the parts that were short have been requested, so every line is now in stock or on order.

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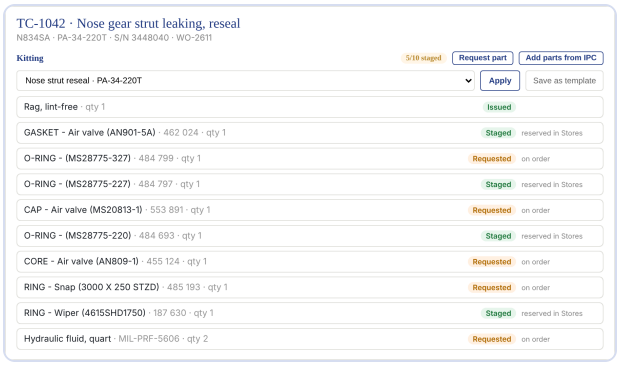
IN STOCK counts serviceable stock on hand, including any already reserved for other task cards: treat it as a guide. Parts are reserved for real when the kit is applied to a card. A part that isn't in your parts catalog yet always counts as short and is requested by part number.

10 Apply the kit on a task card MECHANIC · PLANNER

1. On the task card's **Kitting**, open **Apply a saved kit template…**. It lists only the kits for this aircraft's model, and generic kits; a note says how many kits for other aircraft are hidden. Pick the kit and click **Apply**.
2. A kit for another model is refused, with the model it's for. Lines that don't apply to the card's aircraft serial number are skipped. In-stock parts are reserved and show **Staged · reserved in Stores**; the rest are requested from stores and show **Requested · on order**. Stores sees them on its Kitting and Requests screens.



The Seneca's task card lists its own kits and the generic kit; the King Air brake kit is hidden.



TC-1042 after applying the kit: 4 parts reserved from stock, 5 requested from stores.

ONE KIT PER MODEL Save a kit once per model. Because each line remembers its IPC line, the same kit only adds the parts that fit each aircraft's serial number. Kits saved before models were set have no model and count as generic: open them in Stores → Kit templates and give them a model.

Good to know. The IPC is the manufacturer's data: always check the part number, effectivity and quantity against the revision of the IPC, service bulletins and maintenance manual the work is done to before ordering and installing. Read lists are a convenience; the approved data governs. IPC content stays private to your organization (it's the manufacturer's copyrighted data).

Have a catalog it doesn't read yet?
Send us the PDF. We add new layouts (Beechcraft, Mooney, Diamond, engine and vendor IPCs) as customers need them.

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