

Accessory Oil Filter Package (5H40-A274)

STEP 1 — PREPARE COMPRESSOR AND OIL FILTER PACKAGE

General — Oil filter accessory package 5H40-A274 is designed for use with compressor models 5H40 and 5H46 (4-cylinder), 5H60 and 5H66 (6-cylinder) and 5H80 and 5H86 (8-cylinder).

Review Parts List shown in Fig. 1. Check that package is complete. Report shipping damage to transportation agency. Report missing parts to Carrier.

Review Installation Procedure before installing filter package.

Shut Down Compressor — Refer to compressor servicing instructions. Shut down compressor, bleed refrigerant and drain crankcase oil from compressor as described therein.

STEP 2 — INSTALL OIL FILTER PACKAGE

1. Install capscrew gasket (Item 17) and valve adapter (Item 16) in crankcase oil drain hole. Do not tighten.
2. Install a single-port angle valve (Item 1) into adapter. Tighten valve so that valve and adapter assembly are tight and valve side port points to the left when facing pump end. See Fig. 1, front view. Also see Fig. 2.
3. Remove plugs from each side of pump end bearing head. Also, remove bushing from left side opening.

NOTE: These openings are at the 9 o'clock and 3 o'clock positions on the pump end bearing head and must not be confused with any other pump end plugs nearby. See Fig. 1, front view.

4. Install double-branch angle valve (Item 7) in left side opening in pump end bearing head so that gage connection (1/4-in. FPT) is horizontal, away from compressor. See Fig. 1, top view. Also see Fig. 2.
5. Install remaining single-port angle valve in right side opening in pump end bearing head. The

valve can be positioned with the gage port either vertical upward or horizontal, away from compressor.

6. Install adapter fitting (Item 20) on right side valve.
7. Install oil pressure gages on valves so that gages face up as shown in Fig. 1. If gage port on right valve is up, face gage away from compressor.
8. Install tube assemblies on angle valves as shown. Note difference in tubes. Do not bend tubes. Do not tighten flare connection at this time.
9. Install elbows on oil filter inlet (top) and outlet (bottom) openings so that, when tight, they align with tube assembly flare connections.

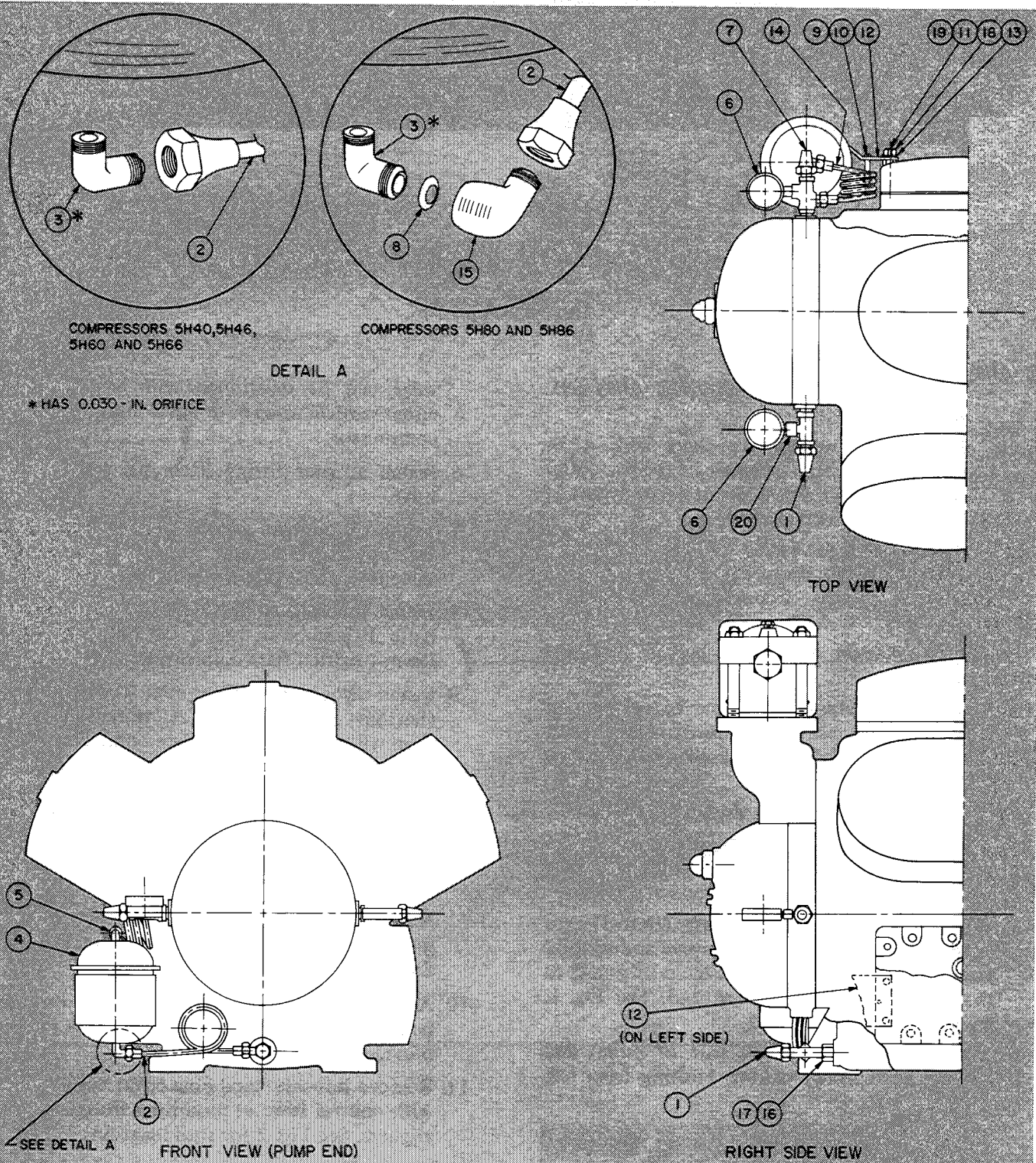
IMPORTANT: Be sure the outlet elbow is the one with the orifice (Item 3). This is necessary to ensure proper function of the oil filter.

Note that 2 elbows and a flare gasket are used on outlet for filter assembly used on 5H80 and 86 compressors. See Detail in Fig. 1.

10. Assemble mounting bracket loosely on filter body. Use round head machine screw and nut provided (Items 9 and 10).
11. Remove left-side hand hole cover bolts; replace with control bracket mounting studs and plain washers. See Fig. 2 for stud locations.
12. Mount filter assembly on studs. Use 3/8 — 16 hex nuts and 3/8-in. lock washers as shown. Do not tighten nuts.
13. Connect inlet tube (Item 14) and outlet tube (Item 2) to filter (see Fig. 2). Do not tighten flare connections.
14. Check that all components are properly aligned (i.e. no binding or excessive stress on connections or tubes). Align as required.
15. Tighten all flare connections. Then tighten bracket nuts and bolts.

(continued on page 4)

Form 5H-2SI



OIL FILTER, ACCESSORY PACKAGE NO. 5H40-A274

ITEM	PART NO.	REQ	DESCRIPTION	ITEM	PART NO.	REQ	DESCRIPTION
1	EP23LC090	2	Valve, Single-Port Angle	12	5H40-2832	1	Mounting Bracket, Oil Filter
2	5H40-176	1	Tube Assembly, Filter Outlet	13	AU01AA241	2	Washer, Plain, 3/8-in.
3	DD40CA051*	1	Elbow, 90 Degree, MFI x MPT	14	5H40-166†	1	Tube Assembly, Filter Inlet
4	05HG660020	1	Oil Filter	15	5H60-166†	1	(See Fig. 2)
5	DD10CA052	1	Elbow, 90 Degree, MFI x MPT	16	DD12CA051	1	Elbow, 90Degrees (5H80,86 only)
6	KM01BC201	2	Gage, Oil Pressure	17	5F20-1311	1	Adapter, Valve
7	EP32TA150	1	Valve, Double Branch Angle	18	AU51YA011	1	Gasket, Capscrew
8	DD24FA051	1	Gasket, Flare (5H80,86 only)	19	AT39AA241	2	Nut, Hex, 3/8-in.-16
9	AT39AA171	1	Nut, 1/4-in.-20	20	AU11AR241	2	Washer, Lock, 3/8-in.
10	AC15AA174	1	Screw, Rd Hd Mach, 1/4-in.-20x1-3/4 Lg	21	5H40-5872	1	Fitting, 1/4-in., FFIx1/4-in. FPT
11	5H40-1781	2	Stud, Mounting Bracket, 3/8-in.-16	21	5H-2SI	1	Installation Instructions

*Has 0.030-in. orifice.

†5H40-166 for 5H40,46,80,86; 5H60-166 for 5H60,66.

Fig. 1 – Installation Details, Oil Filter Accessory

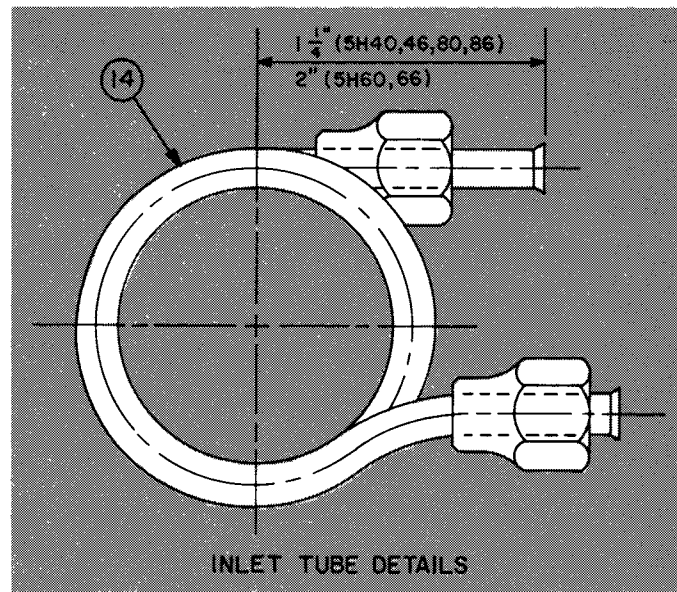
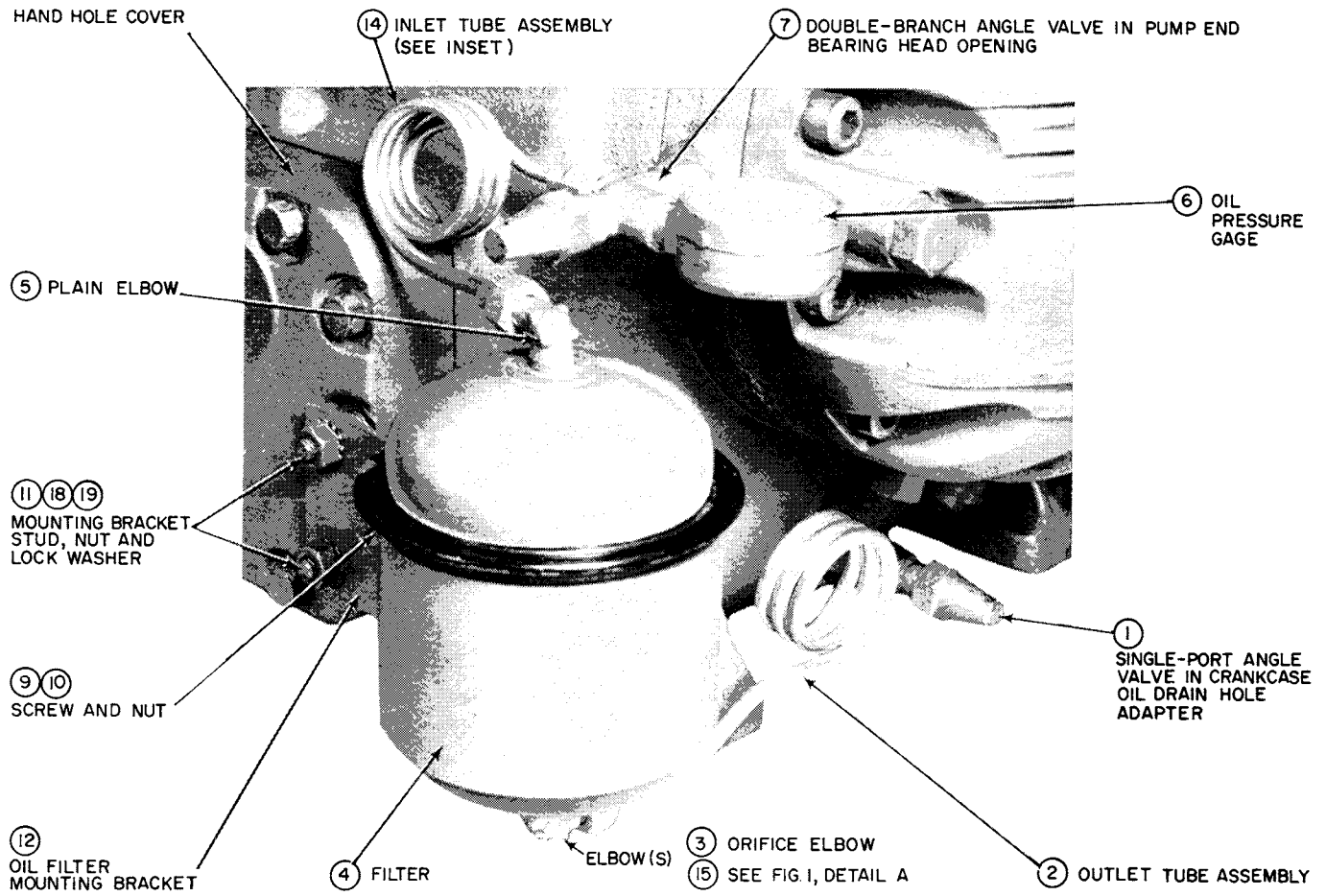


Fig. 2 – Oil Filter Mounted on Left Side of Compressor

Step 3 — RESTORE COMPRESSOR TO OPERATING STATUS

Refill compressor crankcase with new, Carrier approved oil, evacuate compressor and restart compressor as described in compressor Start-Up and Service Instructions.

IMPORTANT: Keep oil pressure gage ports closed during compressor evacuation to prevent vacuum from damaging gages.

→ **Oil Filter Service** — Filter is a bleed-type high-pressure throwaway element. Check for clogged filter

once a year. Filter is clogged if pressure difference between inlet at top of filter and outlet (**before** orifice fitting) at bottom of filter is 5 psi greater than standard operating pressure difference. Refer to compressor Service instructions.

To replace filter:

1. Close filter oil line inlet and outlet valves.
2. Disconnect oil lines at filter connections.
3. Loosen filter bracket; remove entire filter body.
4. Install new filter as described in instructions shipped with it. Reuse inlet and outlet elbows as required. Refer to accessory installation procedure.

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

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Form 5H-2SI Supersedes 5H-1SI

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