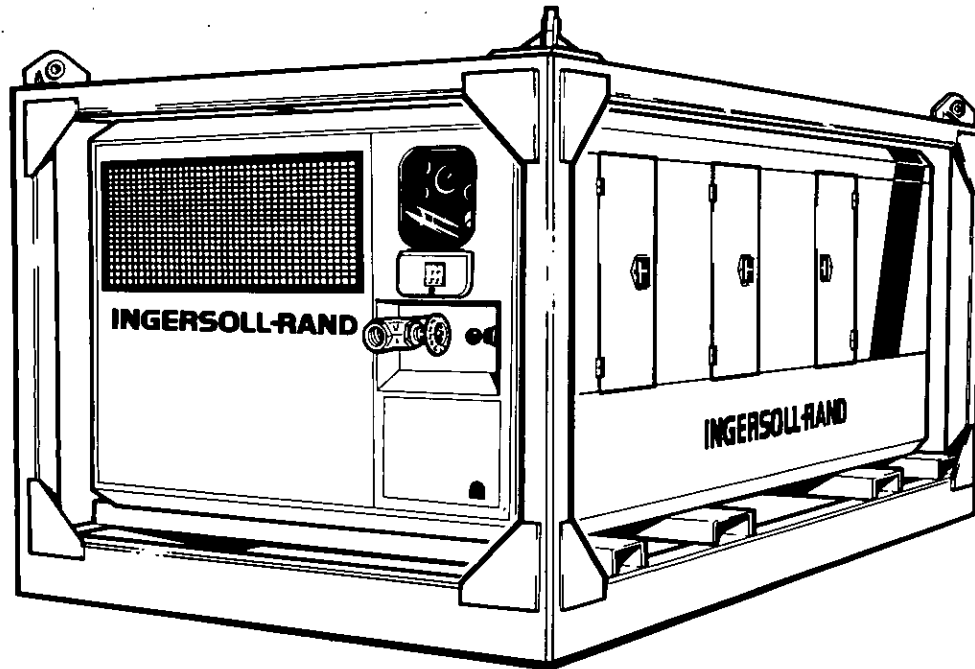


INGERSOLL-RAND

HP 750 O.S.A.



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SERIAL No. RANGE

FROM
685500

TO
685747

OPERATING & MAINTENANCE MANUAL
with spare parts list

MANUAL D'UTILISATION ET D'ENTRETIEN
avec catalogue de pieces detachees

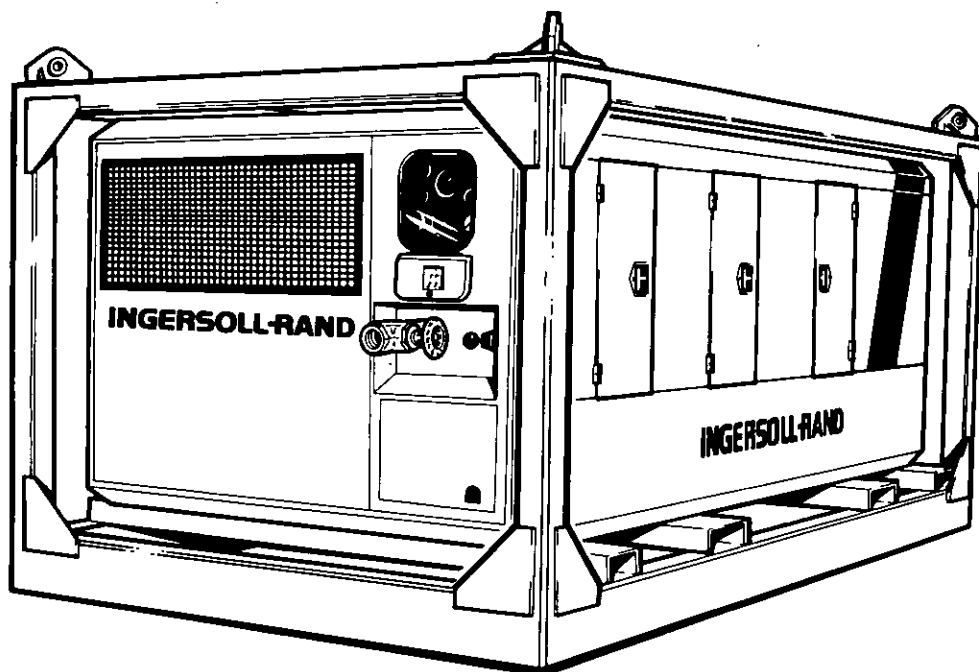
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LIBRO D'USO E MANUTENZIONE
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MANUAL DE MANEJO Y MANTENIMIENTO
con Lista de Repuestos

دليل التشغيل والصيانة
مع قائمة قطع الغيار

INGERSOLL-RAND



PARTS BOOK C.P.N. 92668193

ISSUE No. 2

DATE : JANUARY 1986
Revised (09-12)

HP 750 O.S.A.

OPERATING & MAINTENANCE MANUAL

MANUAL D'UTILISATION D'ENTRETIEN

BEDIENUNGS-UND WARTUNGSANLEITUNG

LIBRO D'USO E MANUTENZIONE

MANUAL DE MANEJO Y MANTENIMIENTO

دليل التشغيل والصيانة

FOREWORD

In preparing this publication, every effort has been made to provide sufficient information to permit an operator to perform his duties so as to receive maximum performance and trouble free service from the compressor. All classes of equipment, regardless of how well built, require a certain amount of attention. The purpose of this publication is to acquaint an operator with the functions, operation and servicing of the various components, which were built with the very best of materials and workmanship, to obtain maximum life from the compressor.

Before starting the compressor, the instructions should be carefully read to obtain a thorough knowledge of the duties to be performed. Take pride in the compressor, keep it clean, and in good mechanical condition. For major servicing, not covered in this publication, consult your nearest Ingersoll-Rand Company Branch office, or the distributor from whom the compressor was purchased.

Correspondence with a distributor must always specify the serial number of the compressor as well as the model.

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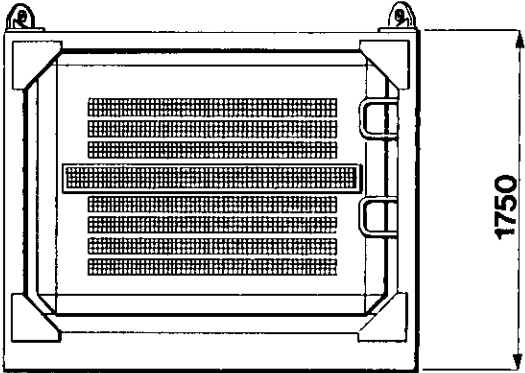
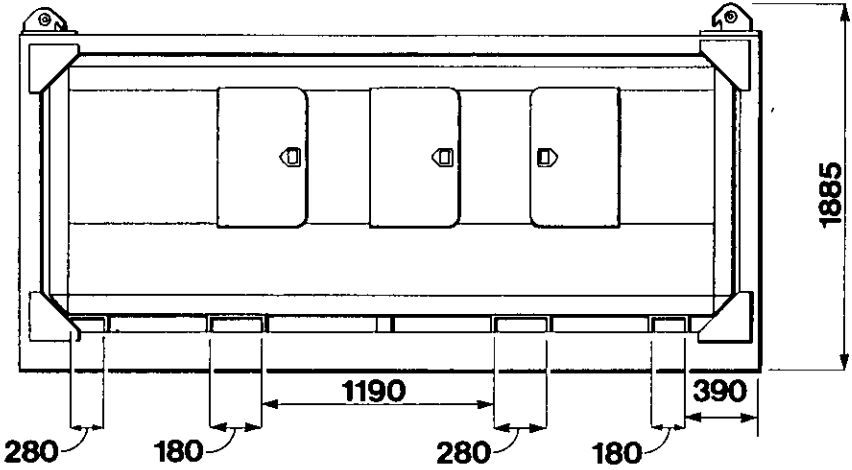
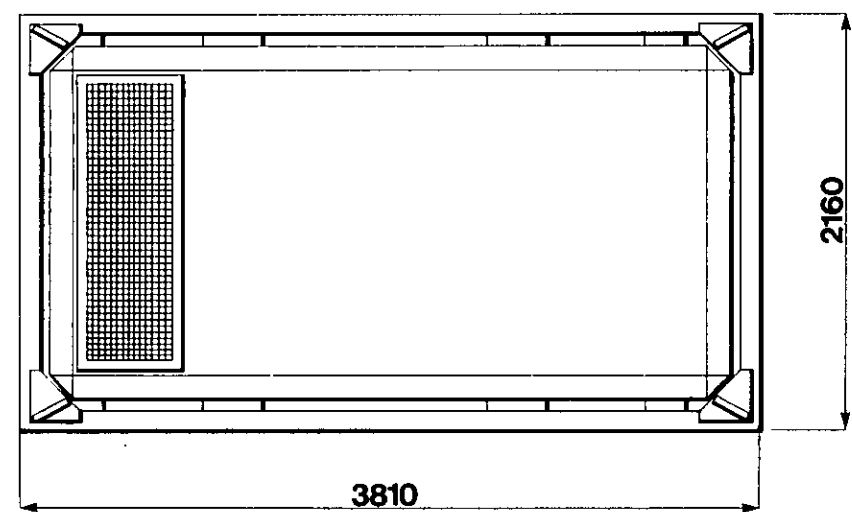
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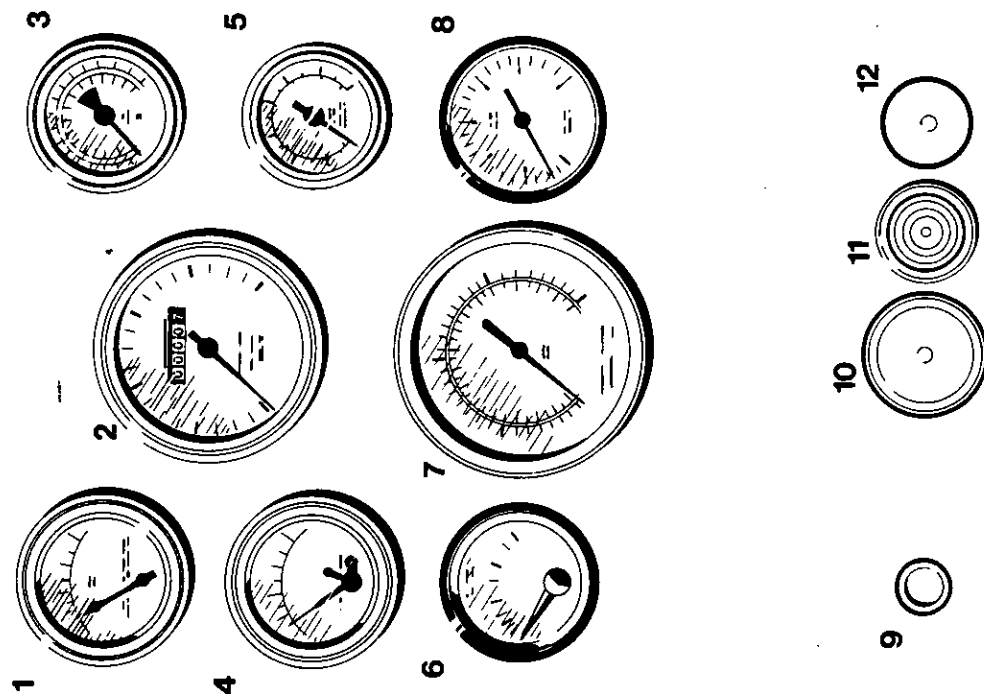
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GENERAL DATA



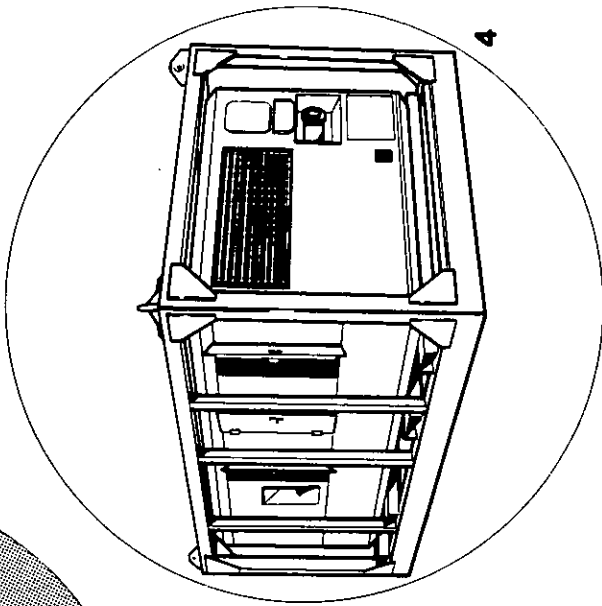
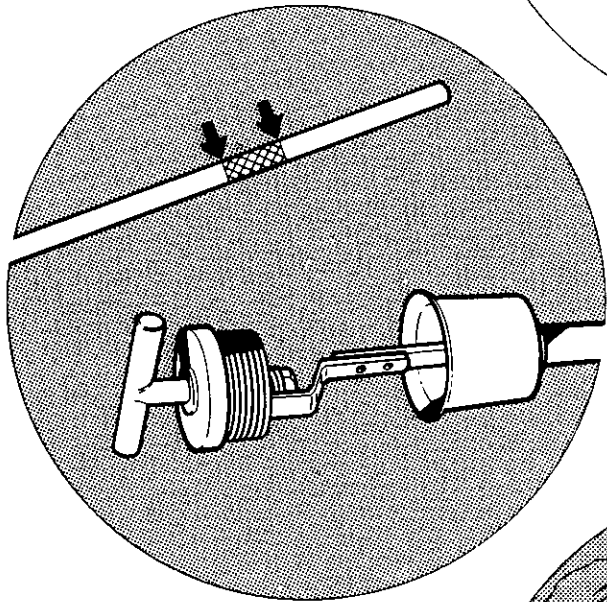
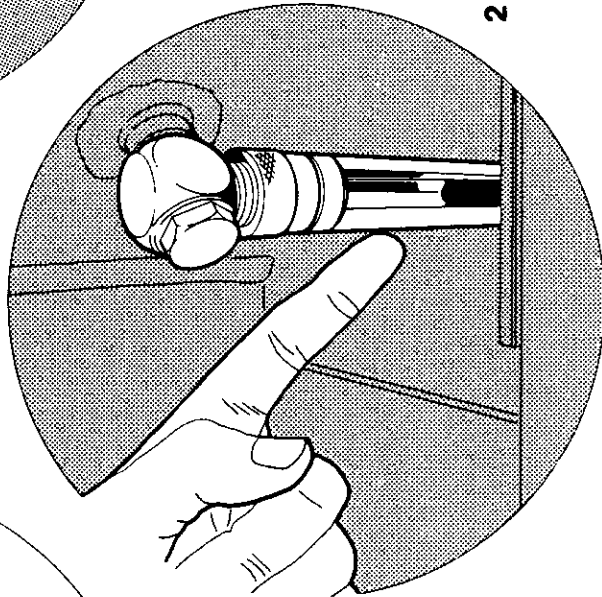
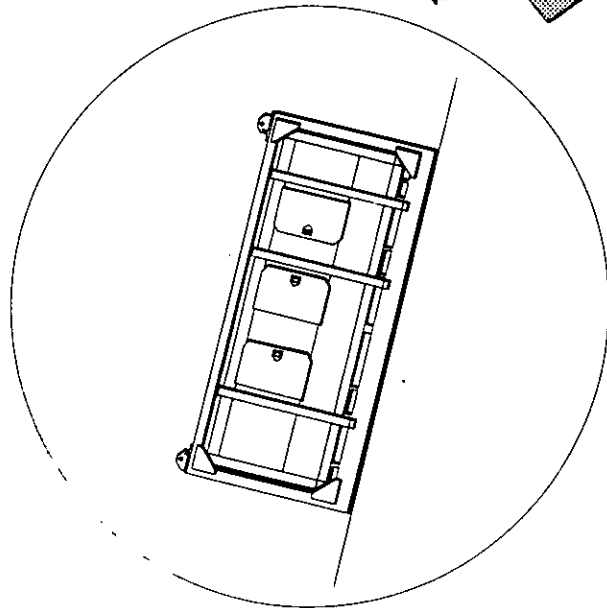
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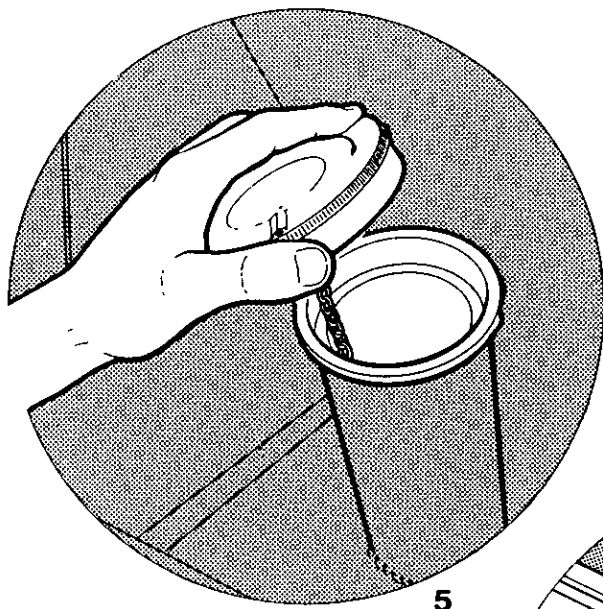
COMPRESSOR	ENGINE	WEIGHTS
Model : HP 750 O.S.A.	Model : Caterpillar 3306 DITA (Marine)	Maximum Weight (including cradle) : 5000 kg
Actual Free Air Delivery : 750 cfm/354 L.S.	Number of Cylinders : 6	Weight of Cradle : 1000 kg
Normal Operating Pressure : 150 psig/10,3 Bar	Displacement : 10,5 Litres	Shipping Weight : 5000 kg
Maximum Pressure : 160 psig/11 Bar	Compression Ratio : 15:1	
Cooling System : Oil Injection	Oil Capacity : 27,4 Litres	
Lubricant/Coolant Capacity : 73 Litres	Speed at Full Load : 2100 R.P.M.	
	Speed at Idle : 1000 R.P.M.	
	Fuel Tank Capacity : 68 Imp. Gallons	
	Flame Trap : 44 kg.	
	Water Cooling System Capacity : 109 Litres	
	Anti-freeze Capacity : 50 Litres	



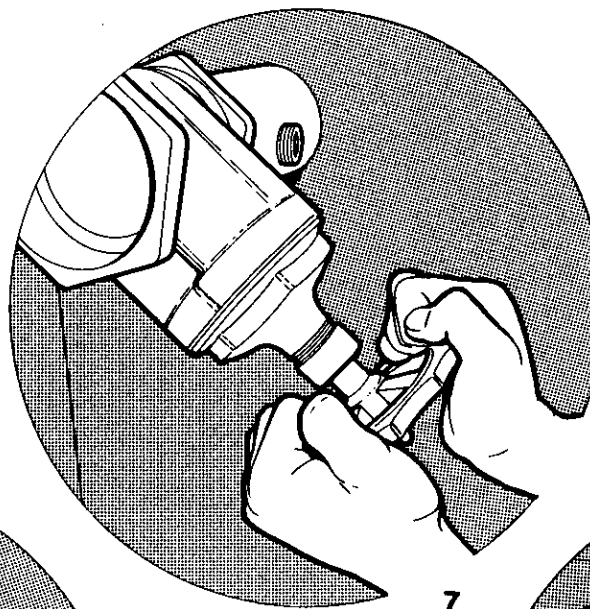
1. **Engine Water Temperature Gauge.**
Maximum temperature 100 deg. C.
2. **Engine R.P.M. and Hours Counter.**
Measures engine speed and the number of hours the machine has been operating. This gauge should be used to give service intervals
3. **Engine Oil Pressure Gauge.**
Depending on type of engine and efficiency of engine, this gauge should read approximately 60 p.s.i.
4. **Compressor Oil Temperature Gauge.**
Maximum temperature 120 deg C.
5. **Air Start Pressure Gauge.**
Measures air pressure in air start system. At 130 Lb. sq.in. will start the engine three times. A minimum of 50 lb. sq.in. is required to start the engine once.
6. **Safety System Pressure Gauge.**
Should show a pressure of 80 p.s.i. plus.
7. **Air Discharge Pressure gauge**
Shows air pressure available at service valve.
8. **Exhaust Temperature Gauge.**
Measures temperature at surface of exhaust system, maximum 200 Deg C.

9. **Push After Warm-up Button.**
Refer to 'Starting'.
10. **Engine Start Button.**
Refer to 'Starting'.
11. **Override Reset Button.**
Re-charges pneumatic safety circuit after shutdown.
12. **Normal Stop Button.**
Refer to 'Stopping'.

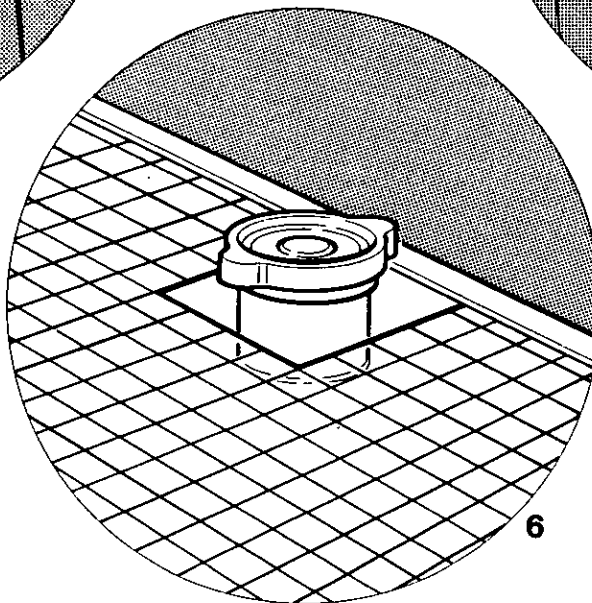




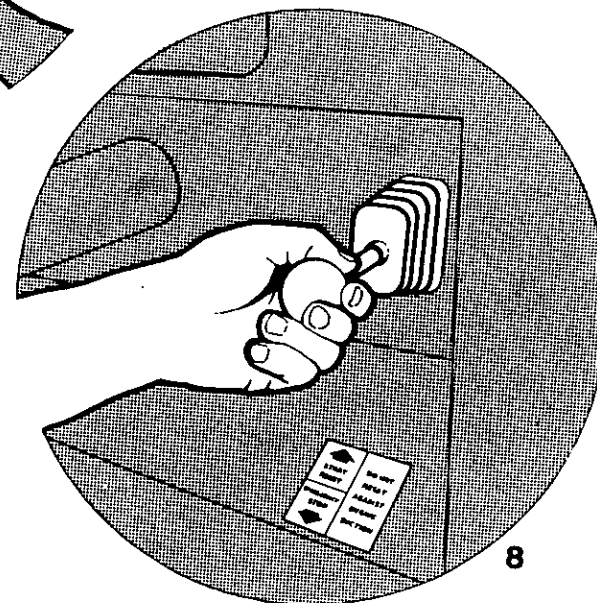
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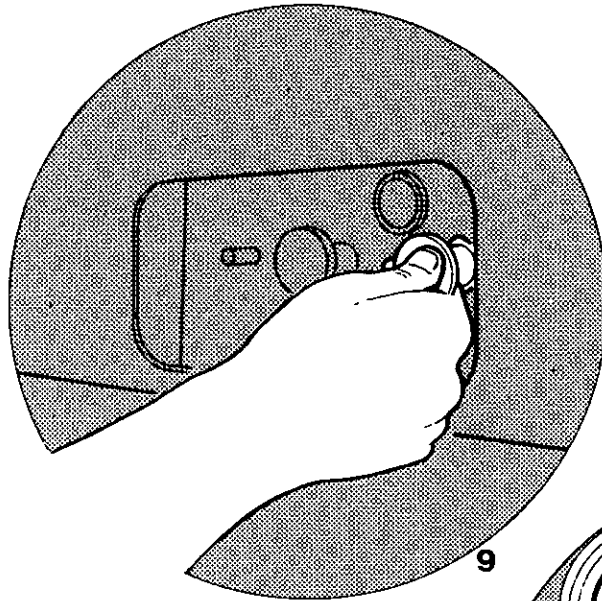
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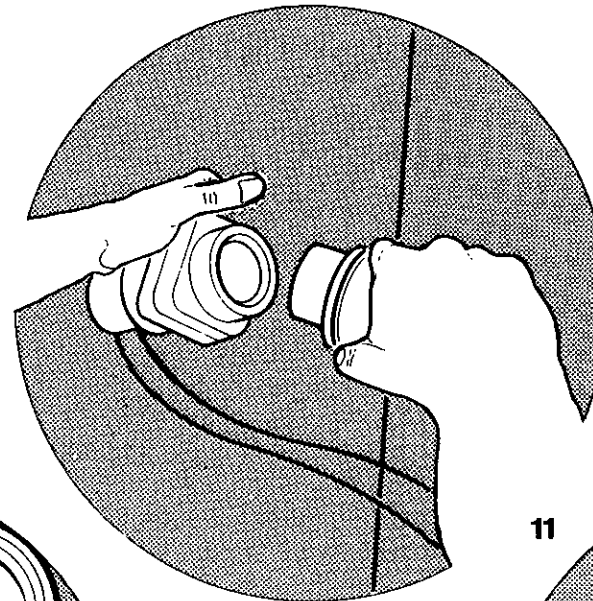
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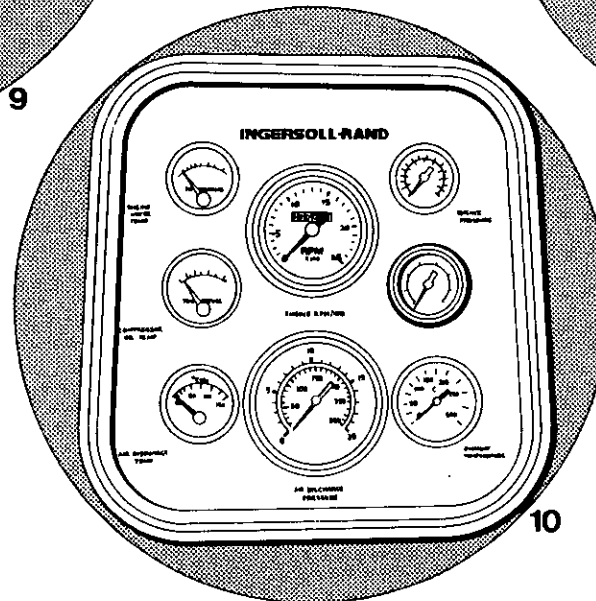
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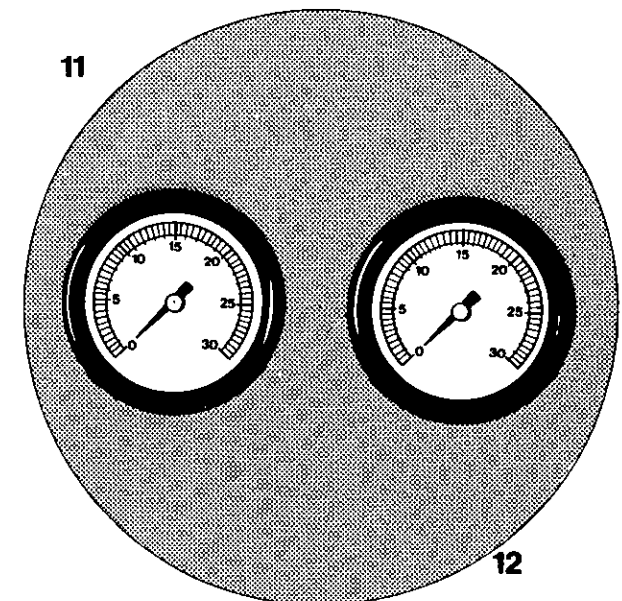
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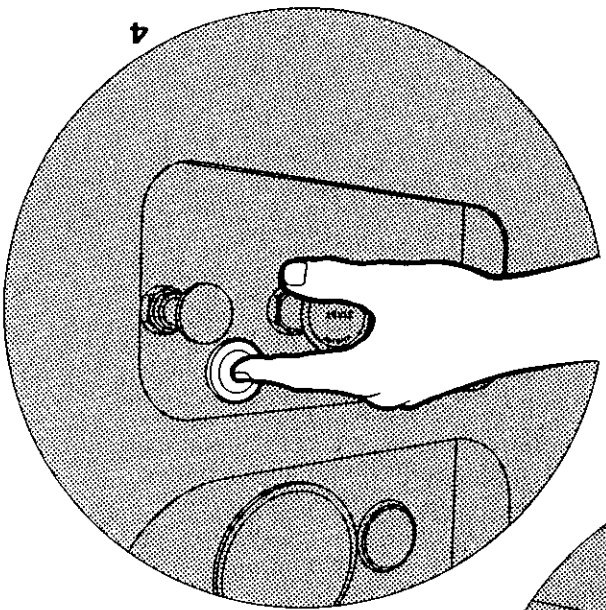
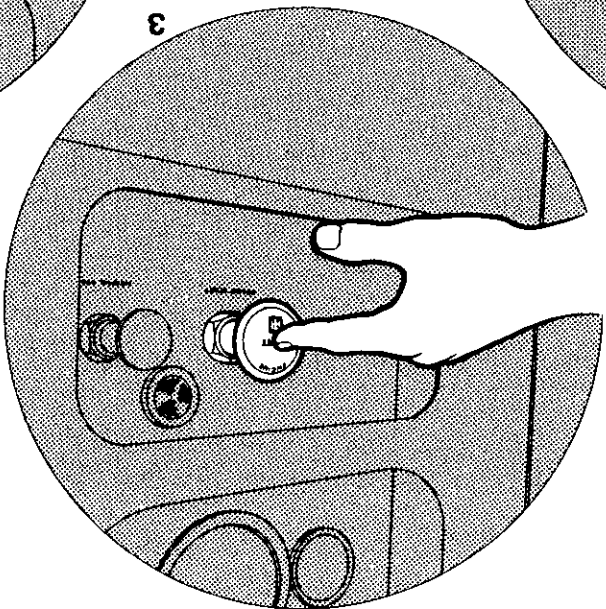
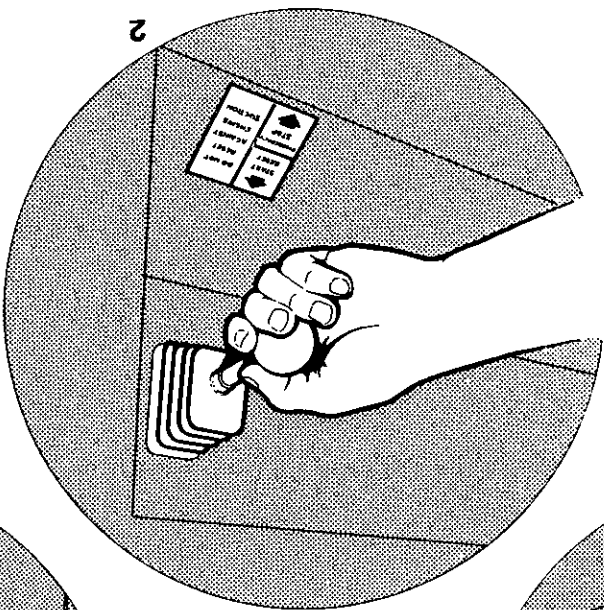
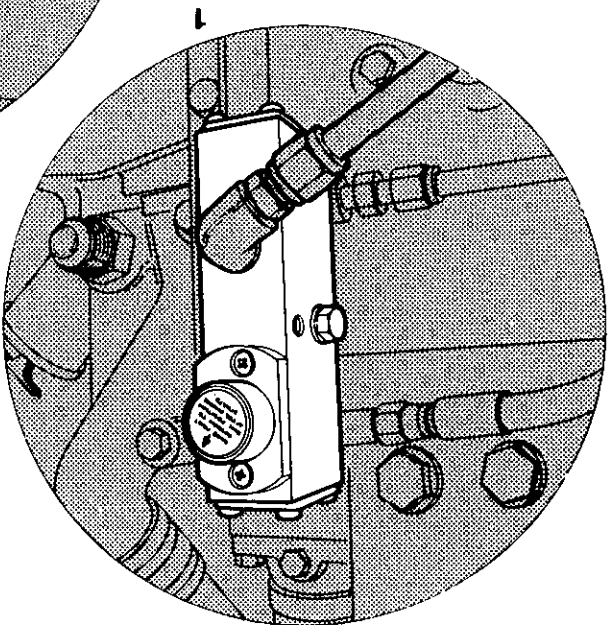
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BEFORE STARTING

1. Place the unit in a level position.
2. Check the compressor oil level in the sight glass situated on the side of the receiver/separator. Oil level should be between maximum and minimum marks.
3. Check engine oil level and add oil if necessary up to full mark on dipstick.
4. Check all doors are closed.
5. Check fuel level. If unit has stood for a period without running turn fuel valve to start position and pump fuel hand pump until pressure shows green on fuel pressure gauge.
6. Check radiator coolant level.
7. Close service valve.
8. Check that speed valve and vibration valve have been reset by pressing reset button on each valve.
9. Pull out normal stop button.
10. Check the air-start receiver is charged.

Check that yellow alert power supply is connected.
11. Check all doors are closed.

12. Check tell tales are green -
N.B. Engine oil pressure
and water loss indicators
may show red after normal
stopping. If system is O.K.
the indicators will go to
green on start up.



OPERATION

FONCTIONNEMENT

BEDIENUNG

NORME PER L'USO

FUNCIONAMIENTO

الاستعمال

OPERATION

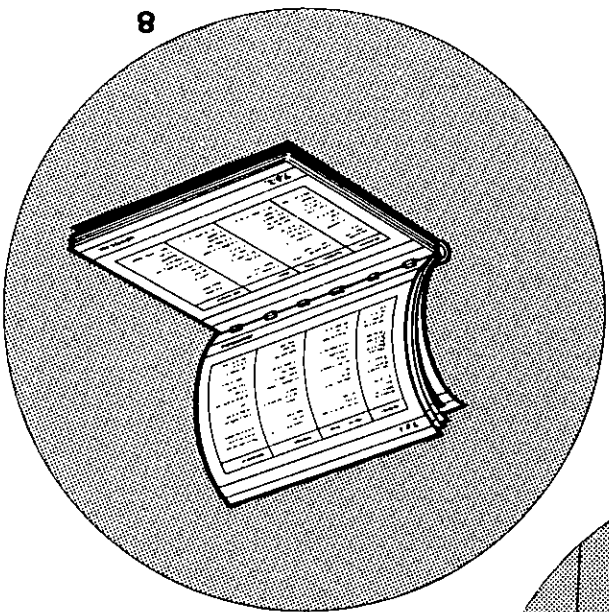
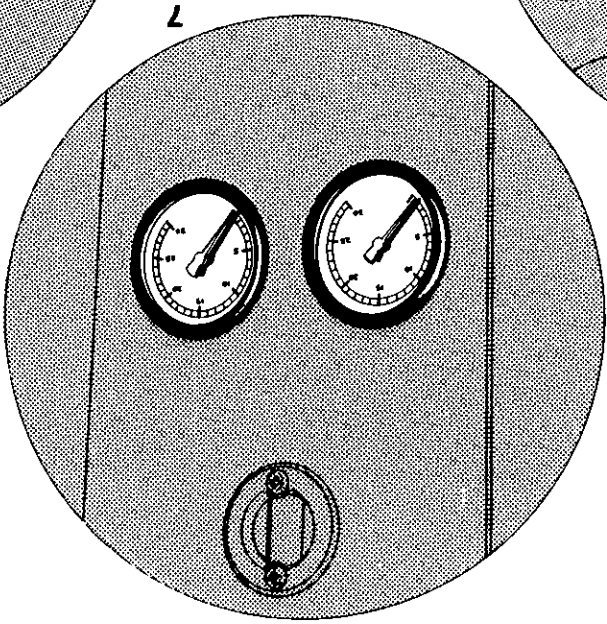
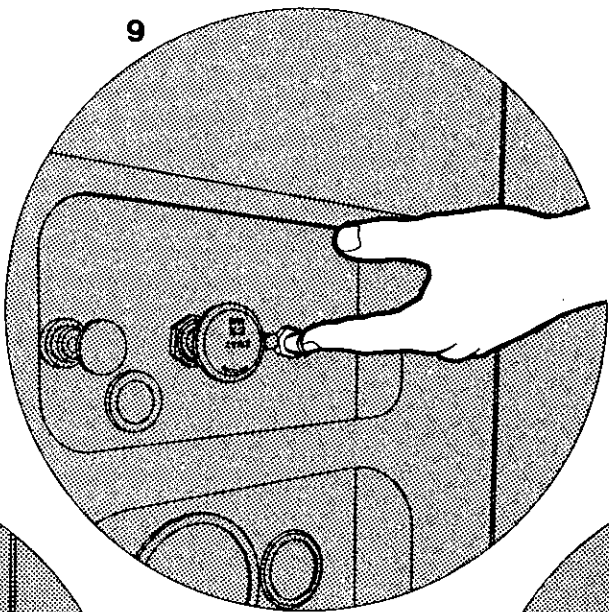
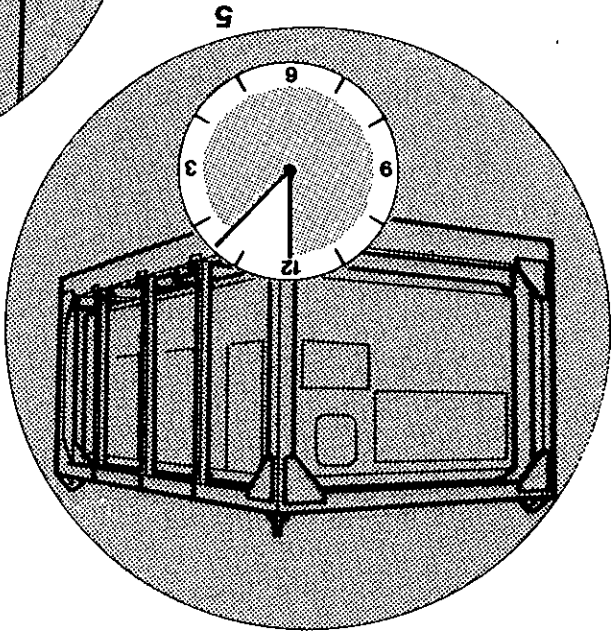
FONCTIONNEMENT

BEDIENUNG

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FUNCIONAMIENTO

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STARTING

1. Turn knob on fuel valve to start position. Pull out normal stop button.
2. Lift the Start/Reset Emergency Stop Lever to the Start Reset position, and hold in position.
3. Press engine Start button. Release Start button when engine fires.
4. Press Reset green button and then release Start/Reset/Emergency Stop lever to central position.
5. Allow machine to warm up for several minutes.
6. Press brass Start-Run button to engage regulation system.
7. When machine is running at full load check if air filter restriction gauges show less than 30", if not air filter element service is required.
8. If unit fails to run or shuts down refer to trouble shooting section of this manual.

STOPPING

1. Close service valve.
2. Allow machine to idle for several minutes.
3. Press normal Stop button.
4. Push horn stop button to silence shutdown warning horn.

EMERGENCY STOP

5. Move Start / Reset / Emergency Stop Lever down to stop position. N.B. Never use emergency stop level for normal stopping as this practice can lead to mechanical damage.

WARNING

If the engine safety system trips whilst the engine is being used in a hazardous area, indicated by a tell tale showing red/white do not attempt to restart until advice has been obtained from the safety officer or plant supervisor.

NOTE

To prevent condensation building up in fuel tank, refill the tank at the end of every shift.

GENERAL

The compressor is initially supplied with oil sufficient for the first 500 hours of operation.

Check the compressor and engine oil level before starting a new compressor.

If for any reason the compressor oil has been drained, it must be refilled with clean new oil recommended by Ingersoll-Rand.

CAUTION

Some oil mixtures are incompatible and result in the formation of varnishes, shelacs or lacquers which may be insoluble. Such deposits can cause serious damage. Where possible, try to avoid mixing oils of the same type but with different brand names.

ENGINE LUBRICATING OILS

Normal lubricating oil for engine is SAE 10W 30 (MIL-L-2104C-CD).

**COMPRESSOR LUBRICATING
AND COOLING OIL
RECOMMENDATIONS**

CAUTION: Care should be taken
to ensure that all down-stream
components will be compatible
with synthetic lubricants.

AMBIENT TEMPERATURE**125 DEG. F (51.7 DEG. C)****to****– 10 DEG. F (–23.3 DEG. C)****USE LUBRICANT:****MIL-L-46152 – SAE 10W****or****MIL-L-2104B – SAE 10W****or****DEXRON**

**IF AUTOMATIC TRANS-
MISSION FLUID (DEXRON)**

AMBIENT TEMPERATURE**– 10 DEG. F (–45.6 DEG. C)****USE LUBRICANT****** MIL-L-236998**

MAINTENANCE

SERVICE HOURS	INTERVAL PERIOD	DESCRIPTION	MAINTENANCE REQUIRED
12		Exhaust flame arrestor	Clean element (P 4.5)
	daily	Air filters	Clean dust collector boxes (P 4.6)
	daily	Fuel tank	Refill to prevent condensation
50	weekly	Temperature probes	Visually Check tightness
50	weekly	Fuel shut off valve	Check reset knob
		Compressor oil filter	Replace after first 50 hours from new
100	2 weeks	Shutdown valve and linkage	Inspect, lubricate and shutdown test
	month	Coolers	Check for build up of foreign matter. Clean if necessary by blowing out with air or pressure wash.
		Compressor oil filter	Replace after first 150 hours from new.
500	6 months	Compressor oil filter	Replace (P 4.2)
500	6 months	Compressor oil	Replace (P 4.1)
500	6 months	Hoses	Inspect (P 4.13)
1000	6 months	Engine breather	Clean element
1000	1 year	Air filter elements	Replace
	2 years	Heat exchanger	Clean interior
	2 years	Spark arrestor	Clean interior
As required		Cooling system	Add antifreeze and inhibitor
		Inlet flame trap	Clean element

**COMPRESSOR OIL
CHANGE**

Replace after 500 hours, or every six months of operation, whichever ever comes first.

NOTE

If compressor has been operated under adverse conditions, or has had long shutdown periods, an earlier oil change may be necessary as oil deteriorates with time as well as by operating conditions.

WARNING

DO NOT under any circumstances remove any drain plugs or open any drain valves from the compressor lubricating/cooling system without first checking all air pressure has been released, by checking discharge pressure gauge and by opening manual blowdown valve located on air regulation manifold behind air inlet filter.

CHANGE PROCEDURE

1. Remove plug from drain valve.
2. Open valve and drain into a suitable container.
3. When receiver separator tank, piping and oil cooler are completely drained, close the coolant drain valve.
4. Replace the plug into the drain valve.

5. Remove the oil filler plug situated on the side of the receiver/separator.

6. Re-fill the lubricating/cooling system until the oil level is between max. and min. marks on the oil level gauge.

7. See Section 2 Operation (Before Starting)

8. Start compressor (See Section 2 Operation)

9. Check for leaks.

COMPRESSOR OIL FILTERS

Replace after the first 50 hours, 150 hours and thereafter every 500 hours or every six months of operation, whichever comes first.

CHANGE PROCEDURE

1. Wipe off any external dirt from the filters to prevent any contamination from entering the lubricating/cooling system.

2. Turn the filters anti-clockwise and remove from housing.

3. Clean gasket seat on housing.

4. Install new Ingersoll-Rand replacement filters by offering up to the housing and turning clockwise until seal makes initial contact.

5. Tighten an additional 1/2 to 3/4 turns.

6. See Section 2 Operation
(Before Starting)

7. Start compressor
(See Section 2 Operation)

8. Check for leaks.

SCAVENGE TUBE

It is good preventative maintenance to check that the scavenge tube is clear of any obstructions each time the compressor lubricant is changed (a blocked scavenge will cause oil carryover).

COMPRESSOR OIL SEPARATOR ELEMENT

Normally the separator element will not require periodic replacement provided the air and oil filters are properly maintained.

ENGINE FILTERS

All must be serviced in accordance with the instructions found in the engine operator's manual.

AIR INTAKE VALVE

At 100 hours or 2 weeks operation (whichever comes first), inspect the valve linkage and control arm mechanism. Ensure that the roller on the trip lever is free to spin. Lubricate the valve spindle and all pivot points with thin oil.

Carry out an emergency stop test using the stop/reset lever by

hand or cable. Ensure that the valve moves freely, closes correctly and shuts down the engine.

If the operation of the valve appears satisfactory but the engine does not stop within a few seconds then the inlet system, including the manifold, should be checked for leaks. Any leaks should be suitably sealed.

AIR INTAKE VALVE SETTING INSTRUCTIONS

Slacken the adjuster until the trip lever spring is just loose. Tighten it nine complete turns, secure the locknut and wirelock the adjuster. Run the engine to maximum speed and check that there is no tendency for the SVD valve to vibrate excessively and shutdown.

When running the engine to check the operation of the valve, restrain the mechanism so that the valve is not allowed to fully close.

When testing shutdown, ensure that this is done at low speed and not more often than necessary.

FLAME ARRESTOR

Fit a clean element every 12 hours or more frequently if necessary. To remove the element, slacken all six captive bolts, draw two captive bolts

into loading bracket and half turn anti-clockwise to secure. Pivot flame trap element to approximately 45 deg. and remove. Clean by soaking in carbon removing solvent: e.g. Applied Chemicals 8-77, 8-38 or Castrol ICP 140 or similar.

HEAT EXCHANGER

On major overhaul, or in the event of shutdown due to excessive exhaust temperature not reconciled by other checks, clean the heat exchanger interior with a carbon solvent: e.g. Applied Chemicals 8-77, 8-38 or Castrol ICP 140.

Remove the heat exchanger from the machine, blank off the gas inlet ports, and with the outlet uppermost fill the casing with solvent and allow to soak for four hours. Empty and thoroughly hose out the interior. Remove all fluid from the heat exchanger, repeat if necessary. During this operation, **do not allow solvent into water passages.**

The heat exchanger gas ports should be blown out, refit the cooler and run the engine until warm. Top up the water system and check for leaks. A clean exhaust flame arrestor element must be fitted. It should be noted that after cleaning the heat exchanger, loose carbon particles may be released during the initial period, after which it is necessary to clean the exhaust flametrap.

AIR FILTER ELEMENTS

The air filters should be inspected and maintained daily.

Dust collector boxes should be cleaned daily; this will become more frequent in dusty operating conditions. Dust collector boxes must not be allowed to become more than half full.

It is recommended that air filter elements be replaced by new Ingersoll-Rand elements. However, if new elements are not at hand, the blocked elements may be cleaned and re-used. For cleaning, the following instructions must be adhered to:-

NEVER REMOVE AND REPLACE ELEMENTS WHEN COMPRESSOR IS RUNNING**REMOVAL AND CLEANING**

1. Clean exterior of filter housing.
2. Remove end cap and empty dust collector box.
3. Unscrew hex.nut securing main element to housing.
4. Remove element.
5. Clean inside housing.
6. Clean element by directing a jet of dry compressed air at no more than 5 bar (73 P.S.I.) at an angle of 45 deg. to the

outside of element. Carefully blow any dust from each fold of the element.

NEVER USE COMPRESSED AIR TO BLOW THROUGH THE ELEMENT MEDIA.

7. Mark the number of services to the main element on the end of the safety element, which should be replaced at least every five (5) services of the main element.

8. Elements must not be cleaned and re-used.

INSPECTION

1. Check for cracks, holes or any other damage to the element by holding it up against a light or by passing a lamp inside.

2. Check the seal at the end of the cartridge and replace if any sign of damage is evident.

3. Renew, Safety element if inspection reveals damage to main element.

REPLACEMENT

1. Assemble the new or cleaned elements into the filter housing.

2. Ensure that the seal seats properly on the bottom of the housing.

3. Secure the element in housing by hand tightening the hex.nut.

4. Assemble the dust collector box parts ensuring they are correctly positioned with the lug interlocked with the slot in the cover rim.

5. Ensure that the arrow and 'top' marking on the collector box is correctly positioned.

6. Reset restriction indicator by depressing rubber diaphragm.

7. Before starting machine, check all clamps are tight.

AIR STARTER MOTOR

Normally the motor requires no maintenance, but should the motor need to be removed for repairs, the following points should be noted.

1. When dis-assembling always mark adjacent parts on the motor housing cover, cylinder housing, gear case and drive housing so that these items can be located in the same position when the motor is re-assembled.

2. Do not dis-assemble the motor any further than necessary to replace a worn or damaged part.

3. Do not remove any part which is a press fit in or on a sub-assembly unless the removal of that part is necessary for replacement or repairs.

4. Always have a complete set of vanes, seals and O-rings on

hand before commencing any overhaul of a starter.

Never re-use old seals or O-Rings.

TESTING THE STARTER MOTOR

1. Turn the Drive Pinion by hand in the direction of starter rotation. The clutch should ratchet smoothly with a slight "clicking" action.

NOTE: Proper Starter rotation is indicated when facing the Drive Pinion. That is, a Starter having the letter "R" in the model number is designated as a right-hand rotation model, and the Drive Pinion will rotate clockwise when facing the Drive Pinion.

2. Turn the Drive Pinion in the opposite direction of the Starter rotation. The gearing and motor should rotate freely with no binding.

3. Attach an air hose to the "IN" port on the Drive Housing, and apply 50 psig (3.4 bar/345 kPa) air pressure. The Drive Pinion should move outward and air should escape from the "OUT" port.

4. Plug the "OUT" port and apply 150 psig (10.3 bar/1034 kPa) air pressure to the "IN" port. Check to make certain no air is escaping. Measure the distance from the face of the Drive Pinion farthest from the

mounting flange to the machined face of the mounting flange. It should be 2.75" (70.0 mm $\pm$ 1.5 mm). With the air pressure on and the Drive Shaft extended, push the Drive Pinion toward the Drive Housing until the Pinion rotates slightly and comes to a solid stop. While holding the Drive Pinion against the stop, measure again the distance from the face of the Drive Pinion to the machined face of the mounting flange. The difference between the two measurements must be 0.47" (12.0 mm $\pm$ 0.9 mm). Remove the pressure from the "IN" port and measure again the distance from the face of the Drive Pinion to the machined face of the mounting flange. It should be 1.82" (46.2 mm $\pm$ 1.5 mm).

5. Attach a 3/8" (9 mm) air hose to the inlet of the motor and apply 90 psig (6.2 bar/620 kPa) air pressure. The Starter motor should run smoothly.

6. Plug the exhaust port and apply 30 psig (2.1 bar/207 kPa) air pressure to the inlet of the motor. Immerse the Starter for thirty seconds in a non-flammable solvent. If the Starter is properly sealed, no bubbles will appear.

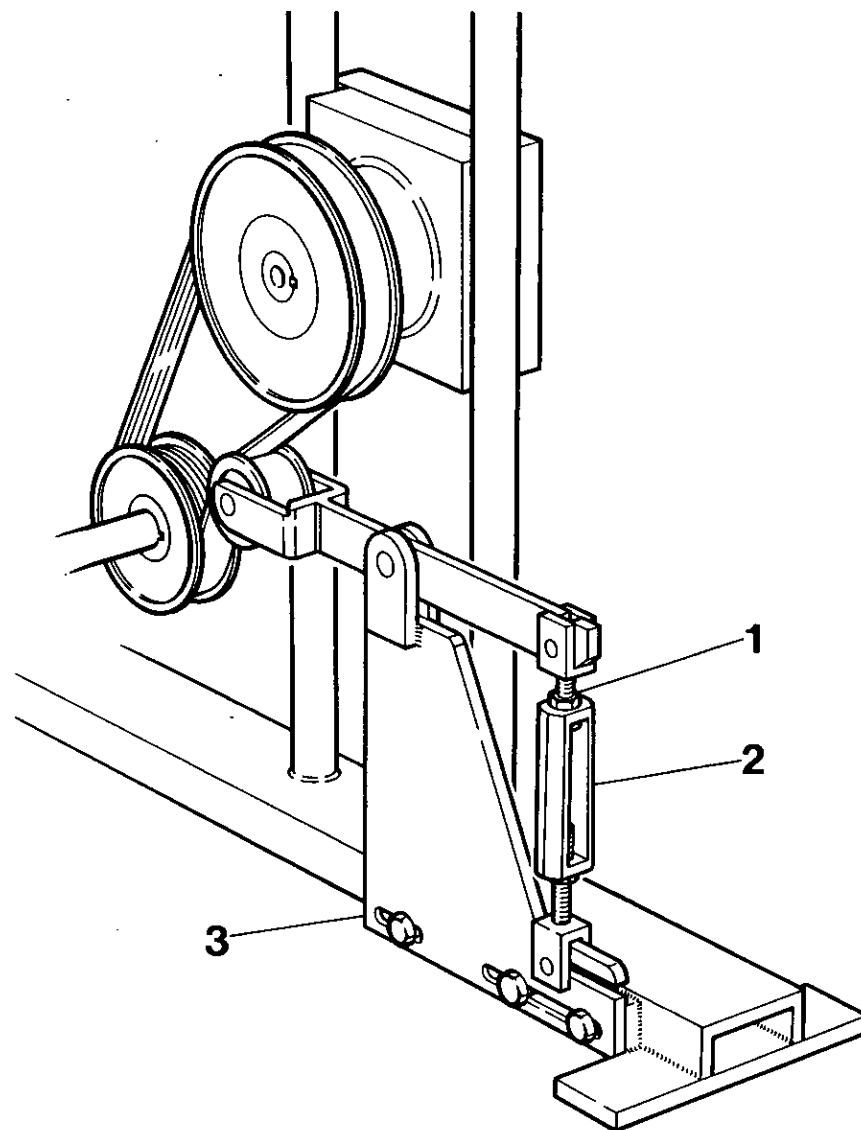
RADIATOR AND OIL COOLER

Each month it is recommended that the coolers be cleaned. When grease, oil and dirt accumulate on the cooling faces, the efficiency of the coolers becomes impaired.

To clean the oil cooler, direct a jet of compressed air, carrying a non-flammable safety cleaning solvent through the core of the oil cooler.

HOSES

At regular intervals, inspect all of the intake lines to and from the air cleaners, and all flexible hoses used for air lines, oil lines and fuel lines.



FAN BELT TENSIONING

The cooling fan is driven from the compressor male rotor by a poly-vee drive belt.

It is important that this belt is correctly tensioned preventing it from slipping. To adjust the tension of the belt, the following instructions must be adhered to:

A. Release turnbuckle locknut (1) and slacken turnbuckle body (2).

B. Slacken the four securing support plate (3).

C. Ensure support plate (3) is pushed fully forward towards the pulley.

D. Tighten screws to secure support (3).

E. Hand tighten turnbuckle body (2) and run machine. CORRECT BELT TENSION IS WHEN NO SLIPPAGE OCCURS ON CHANGE OF SPEED.

F. If belt squeals on change of speed or stopping of machine, increase the belt tension.

G. When correct tension is achieved, tighten turnbuckle locknuts (1).

PERIODICALLY CHECK TIGHTNESS OF ALL FAN MOUNTING BOLTS AND DRIVE PARTS. THE FAN MOUNTING NUT SHOULD BE TIGHTENED TO A TORQUE VALUE OF 260 LB.FT/80Nm.

SPEED AND PRESSURE
REGULATOR ADJUSTING
INSTRUCTIONS

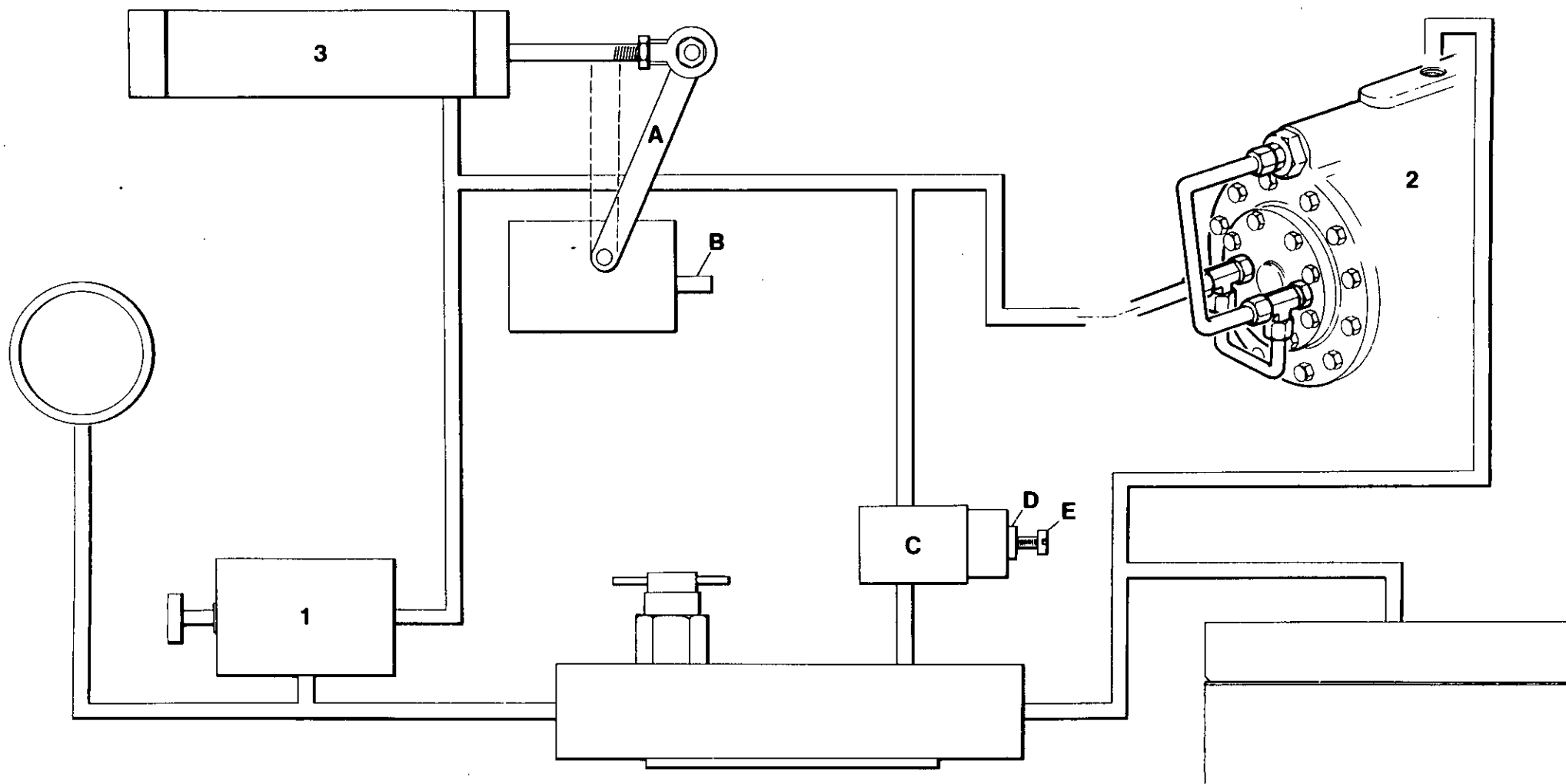
REGLAGE DU REGULATEUR
DE VITESSE ET DE PRESSION

DRUCK- UND DREHZAHL-
REGLER

ISTRUZIONI PER LA
TARATURE E DEL
REGOLATORE DE PRESSIONE
E DI VELOCITA'

REGULACION DEL
REGULADOR DE PRESSION Y
DE VELOCIDAD

تعليمات تعديل منظم
الضغط والسرعة



1 = 2-Way start/run valve.

2 = Inlet unloader

3 = Air cylinder (Speed
regulator)

C = Pressure regulator

Normally regulation requires no
adjusting, but if proper adjust-
ment is lost, proceed as follows:

Before starting engine :

1. Inspect throttle arm 'A' on
engine governor to see that it is
resting against full speed stop
'B'.

2. Loosen locknut 'D' on
adjustment screw 'E' and turn
anti-clockwise until no tension
is felt. Now turn screw one full
turn clockwise

After starting engine :

3. Allow unit to warm up
then press start-run valve 1.

4. Open and adjust service
valve on outside of machine to
maintain rated discharge pressure
on discharge gauge.

5. Ensuring that pressure is
maintained as required discharge
pressure, adjust regulator screw
'E' until throttle arm 'A' just lifts
off stop 'B'.

NOTE : Adjusting regulator screw clockwise will riase full speed pressure.

6. Close service valve. Engine will slow to idle speed 100 rpm.

TROUBLE SHOOTING

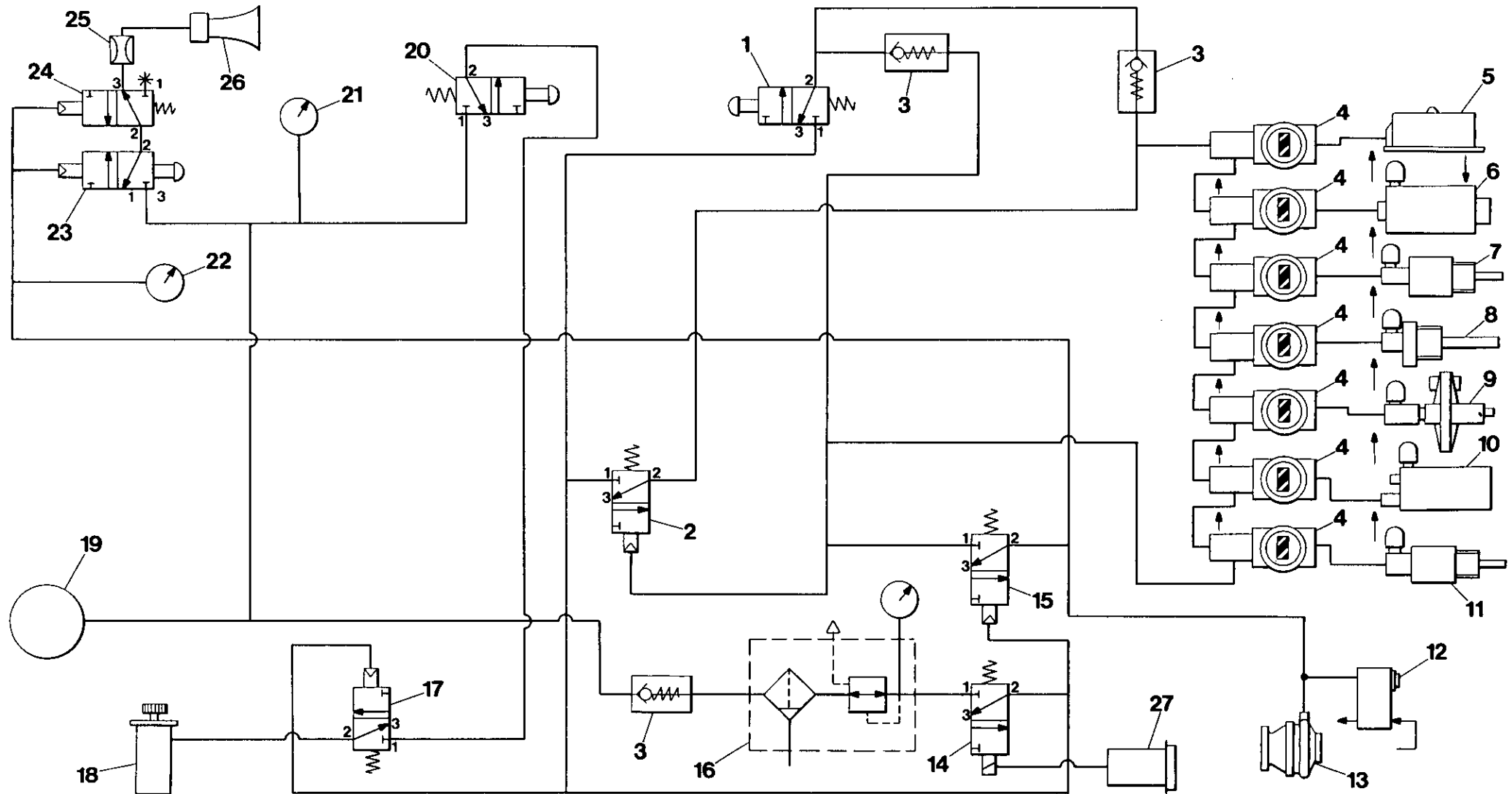
FAULT FINDING CHART	FAULT FINDING CHART
1. Engine Will Not Crank a) Insufficient pressure in air start tank. b) Yellow alert not connected or faulty. 2. Engine Will Not Start a) Low fuel level. b) Fuel system water trap full of water — drain off water and press button on top to return float. c) Reset on Overspeed and vibration valves not pressed. d) Fuel valve not reset, turn clockwise to start position. e) Normal stop button not pulled out or fuel pump lever stuck in stop position. f) Air entrapped in fuel system.	3. Engine Will Not Continue To Run After Pressing 'Reset' Button a) Safety system reset button not pressed for long enough to allow air pressure to build up. Watch for fuel valve reset knob moving to 'run' position before releasing button. b) Air leak in safety system. See pneumatic diagram. c) Fault on machine indicated by tell-tales or faulty safety system valves. 4. Unit Prematurely Shuts Down a) Fault on machine indicated by tell-tales. b) Loss of air in safety system — check for leaks. c) Fuel starvation — check water trap in fuel system, check fuel level.

TROUBLE SHOOTING

FAULT FINDING CHART		FAULT FINDING CHART	
5. Excessive Vibration	a) Engine idle speed too low. Should be 1000/1100 r.p.m. b) Mechanical fault, e.g. broken fan or coupling.	8. Excessive Oil Carry Over in Discharge Air	a) Blocked scavenge line. Check scavenge line and orifice. b) Punctured separator element.
6. Engine Stalls on Idle	a) Idle speed too low. b) Unloader not closing properly.	9. Safety Valve Blows	a) Operating pressure too high. b) Regulator out of adjustment. c) Faulty regulator valve.
7. Air Discharge Capacity Too Low.	a) Engine speed too low. Maximum 2100 r.p.m. b) Blocked air cleaner. Check gauge. c) High pressure air escaping.	10. Engine Speed Too Low	a) Incorrect setting of throttle arm. b) Blocked fuel filter. c) Faulty regulator valve. d) Blocked silencer on regulator valve.

AIR STARTER MOTOR TROUBLE SHOOTING GUIDE

Trouble	Probable Cause	Solution
Loss of Power	Worn Motor Parts	Remove the motor from the Motor Housing and disassemble the motor. Examine all parts and replace any that are worn or damaged. Use the following guidelines for determining unserviceable parts: Vanes — Install a set of new vanes if any vane is cracked, spalled or worn to the extent that its width is 0.67" (17 mm) or less at either end. Rotor Bearings — Replace if any roughness or looseness is apparent. Rotor — Replace if the body has deep scoring that cannot be removed by polishing with emery cloth. Cylinder Housing — Replace if there are any cracks or deep scoring. End Plates — Clean up scoring by rubbing it with emery cloth placed on a flat surface.
	Inadequate Lubrication	Check the lubricator, inlet hose, fitting and oil supply hose to make sure they are vacuum tight and free of leaks. Tighten all joints and replace the lubricator if necessary.
Air or Gas Leakage	Worn O-rings	Check the End Plate O-rings and Drive Housing O-ring plug the exhaust. Apply 30 psig (2.1 bar/207 kPa) air to the inlet and immerse the unit for 30 seconds in nonflammable solvent. If bubbles appear, replace the O-ring, Gaskets or seals.
Pinion does not engage the flywheel	Broken clutch jaws or other broken parts	Disassembly of the Piston and Clutch
Motor runs, pinion engages but does not rotate	Broken shafting, Gearing or Clutch Jaws	Disassembly of the Piston and Clutch
Excessive butt engagements	Dry helical spline	Disassembly of the Piston and Clutch. Lubricate the helical spline with Ingersoll-Rand Grease No. 28.



Item	Description
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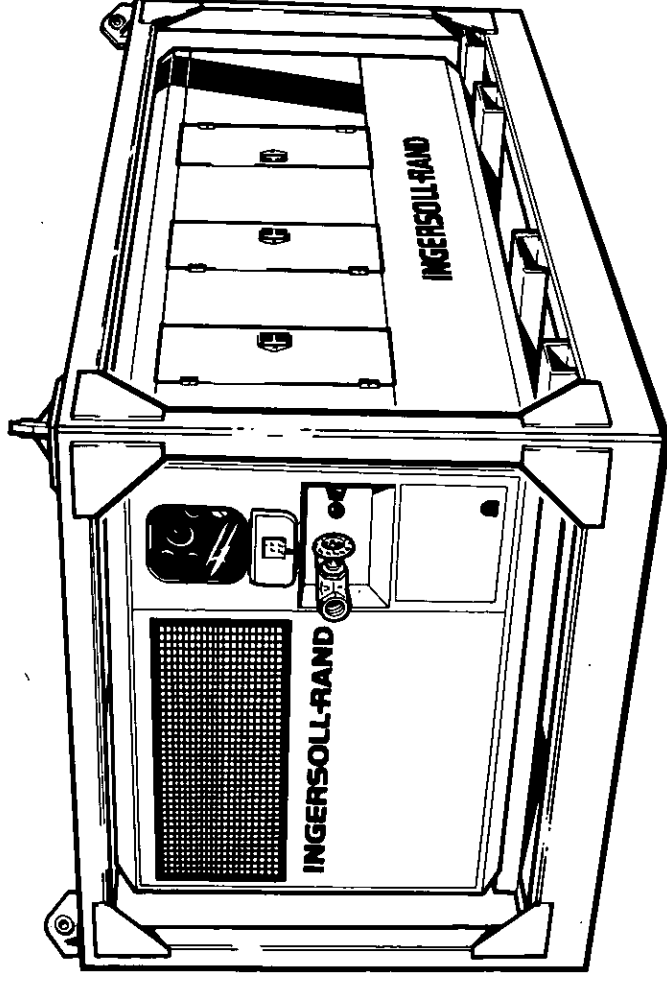
- | | |
|-----|-----------------------------------|
| 1. | Safety System Reset Button |
| 2. | Safety System Energizing Relay |
| 3. | Check Valve. |
| 4. | Tell-Tale Indicator Relays. |
| 5. | Engine Vibration Sensor. |
| 6. | Engine Overspeed Sensor. |
| 7. | Engine Water Temp. Sensor. |
| 8. | Engine Exhaust Temp. Sensor |
| 9. | Engine Water Loss Sensor |
| 10. | Engine Oil Pressure Sensor |
| 11. | Compressor Discharge Temp. Sensor |
| 12. | Fuel Shutoff Valve |
| 13. | Air Intake Shut-off Valve |
| 14. | "Yellow Alert" Solenoid Valve |
| 15. | "Yellow Alert" Shutdown Relay. |
| 16. | Filter Regulator. |
| 17. | Starter Inhibitor Relay. |
| 18. | Starter Motor. |
| 19. | Start System Air Reservoir. |
| 20. | Start Button. |
| 21. | Start System Pressure Gauge. |
| 22. | Safety System Pressure Gauge. |
| 23. | Horn Isolate Button. |
| 24. | Horn Relay. |
| 25. | Orifice (1 mm). |
| 26. | Horn. |
| 27. | "Yellow Alert" Electrical Socket. |

TORQUE VALUE CHART

FASTENING	lb ft	Nm
Drive Pins to Flywheel	340	500
Element to A/E Hub	340	500
Drive Ring to Flywheel	18	24
A/End to Engine	20	27
Rear Mtg. Brackets to Eng	140	190
Mtg. Bracket to A/End	140	190
Resilient Mounts to Frame	140	190
Cylinder Brkt. to Engine	20	27
Engine Exh. Manifold Conn	20	27
Autella Clamps	35	47
Unloader Valve to A/E	140	190
Oil Manifold to A/E	63	85
Lift Bail to T/Frame	260	352
Cover to Sep Tank	140	190
Sep Tank to T/Frame	63	85
Fan to Fan Hub	63	85
Nut on Fan Shaft	260	352
Taper Lock Bushes	35	47
Disch Pipe to A/End	140	190
Disch Pipe to Sep Tank	63	85
Exh Pipe to Turbo	25	35
Exh Pipe to Eng + Cooler	175	230

INGERSOLL-RAND

HP 750 O.S.A.



SPARE PARTS LIST

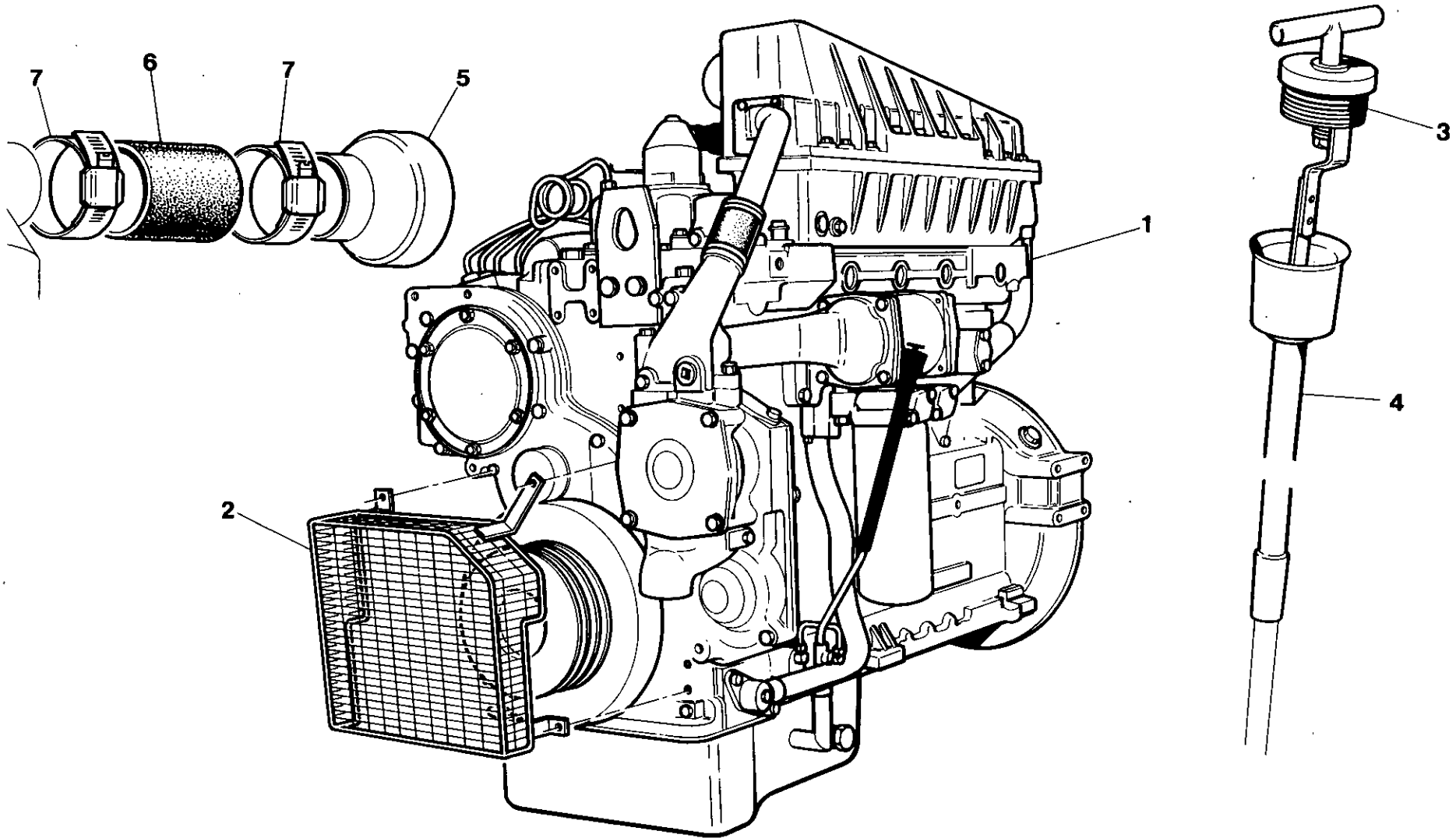
CATALOGUE PIECES DETACHEES

ERSATZTEILLISTE

LISTA DE REPUESTOS

LISTA RICAMBI

قائمة قطع الغيار



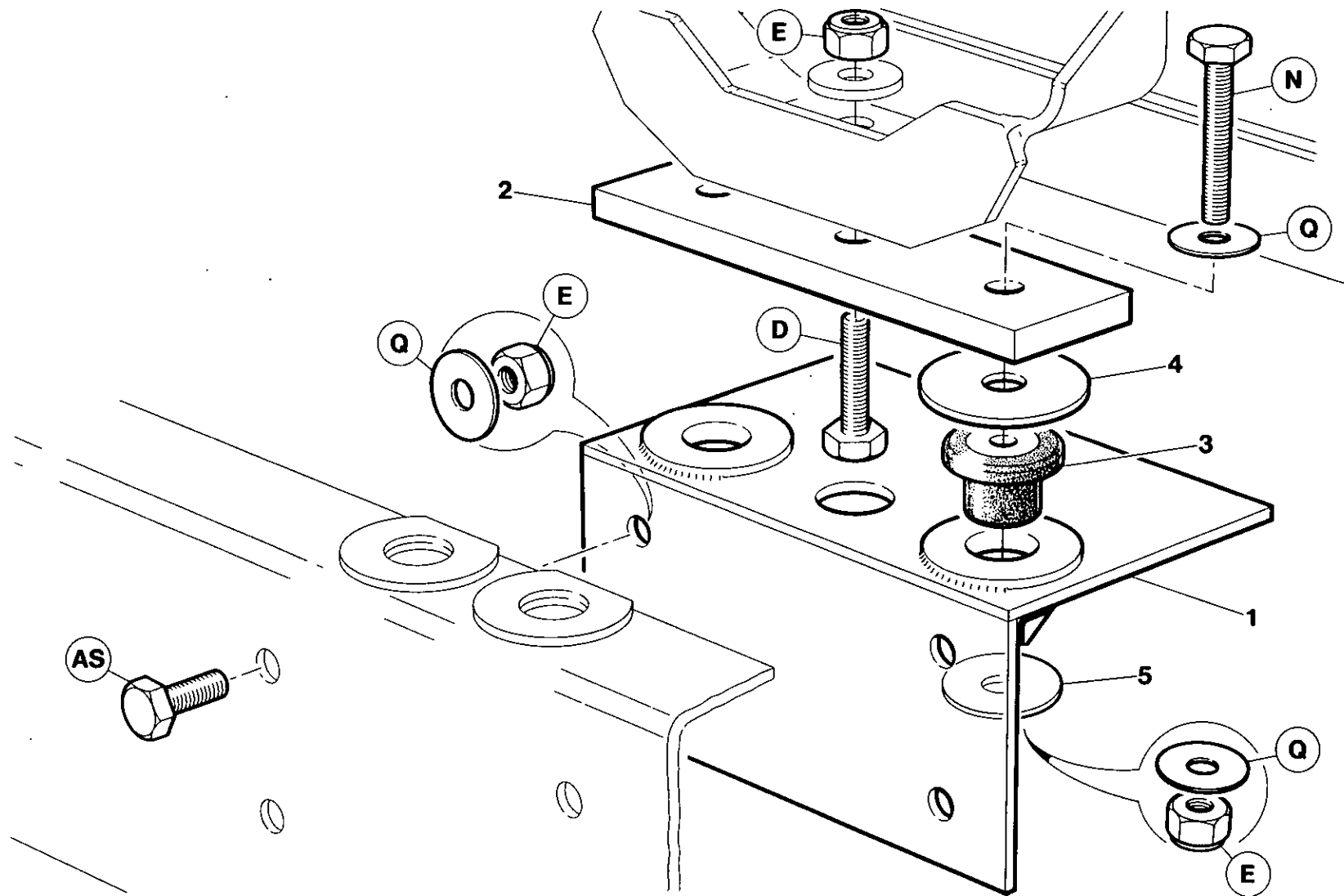
Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	+++++++	1	Engine					
2	92540806	1	Guard					
3	92546399	1	Dipstick					
4	92661917	1	Tube					
5	92546381	1	Breather Filter					
6	92662022	1	Hose					
7	92253111	2	Clip					

+++++++ Items supplied by engine manufacturer

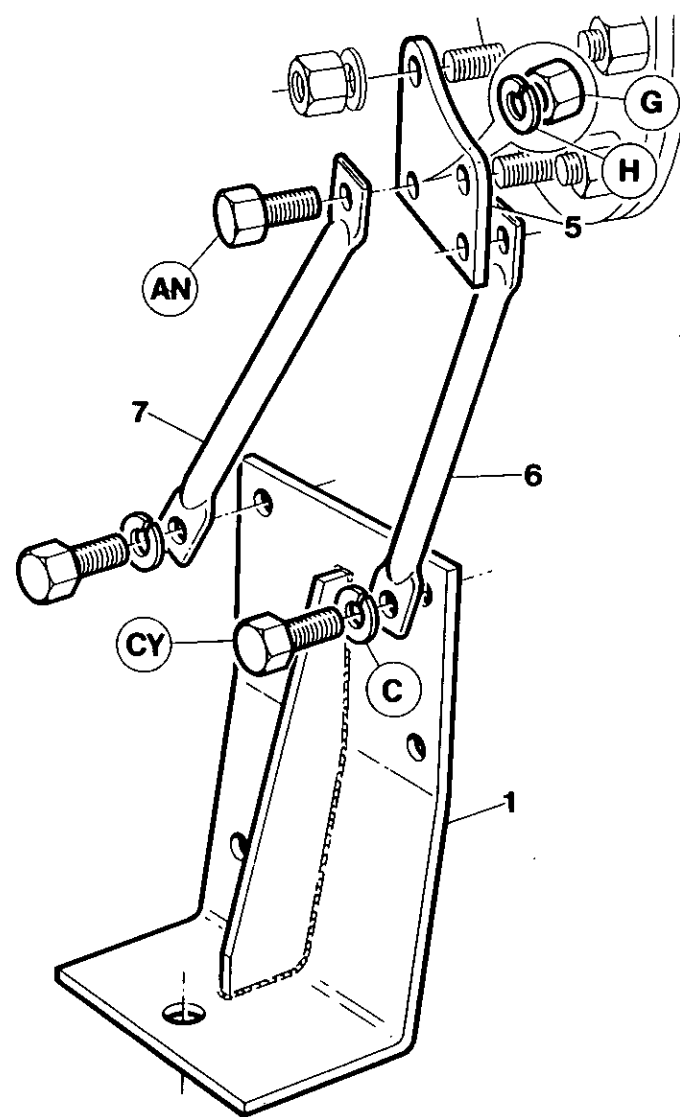
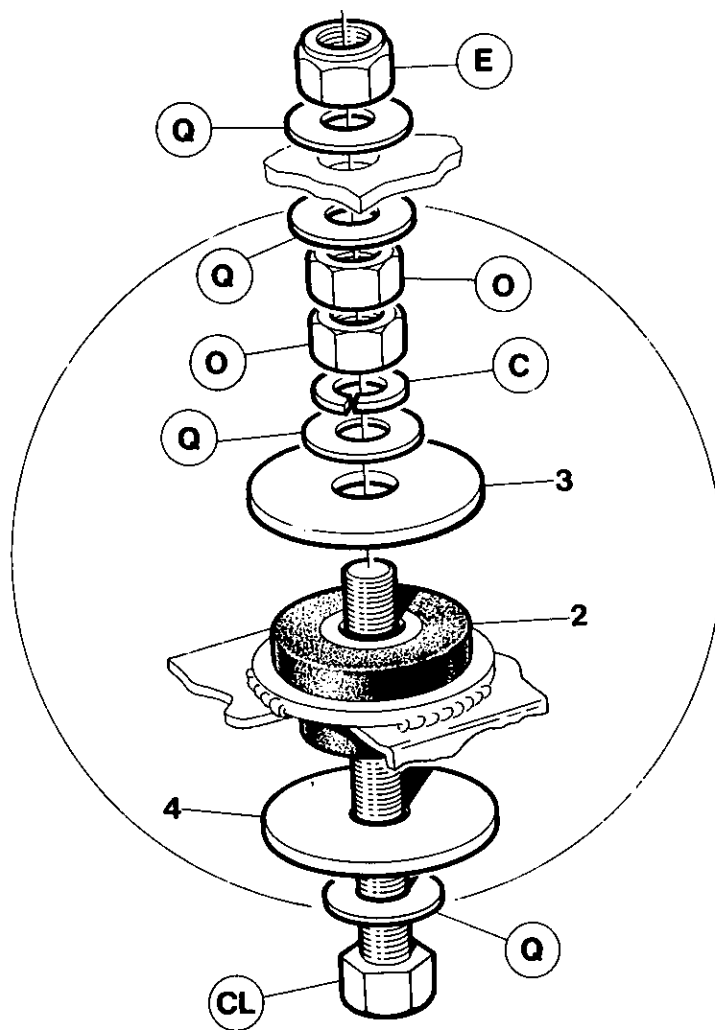
Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
Caterpillar 3306 Direct Injection Turbocharged and Jacket Water Aftercooled Diesel Engine Consisting of :-								
7Z8602		1	Basic engine arrangement - breakdown as follows :-					
CENTRAL STRUCTURE								
8N5286		1	Cylinder block group					
7N1342		1	Cover group					
6N8079		1	Crankshaft group					
2P6224		1	Crankshaft seal group					
2W1177		1	Rod and piston group					
1N4406		1	Single camshaft group					
REAR STRUCTURE								
6N5233		1	Flywheel housing group					
815077		1	Flywheel Group					
LOWER STRUCTURE								
3N2899		1	Oil pan group					
3N2898		1	Oil level gauge group					
LUBE SYSTEM								
2P1784		1	Engine oil pump group					
2P6105		1	Engine oil lines group					
2P6855		1	Oil filler group					
1P4244		1	Breather group					
COOLING SYSTEM								
7N5909		1	Water pump group					
4W6157		1	Water lines group					
7W1324		1	Filter base cooler group					
6N8492		1	Water lines group (aftercooler)					
INTAKE & EXHAUST SYSTEM								
1W8483		1	Exhaust manifold group					
2W1576		1	Turbocharger group					
6N9317		1	Air lines group					
6N5960		1	Water aftercooler group					
4W6957		1	Turbo oil lines group					

Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
UPPER STRUCTURE								
8N0246		1	Cylinder head group					
7N9536		1	(Cylinder head) fastener group					
7N8026		1	Valve mechanism group					
8N3286		1	Engine lifting group					
8N4745		1	Cover group					
FRONT STRUCTURE								
8N0303		1	Front housing group					
2P6528		1	Front housing cover group *					
1W3802		1	Front housing fastener group					
1W4563		1	Front gear group *					
7N0744		1	Engine support group					
1W4410		1	Damper group					
3N2884		1	Crankshaft pulley group					
3N2886		1	Seal adaptor group					
* SEE TACHO DRIVE CUSTOMISING SECTION								
FUEL SYSTEM								
2W1011		1	Secondary filter group					
2W1508		1	Fuel injection lines group					
2W1605		1	Drain lines group					
4W1876		1	Fuel priming pump group					
2W6275		1	Governor and fuel injection pump group					
2W4160		1	Fuel transfer and mounting group					
MISCELLANEOUS								
8N9033		1	Coolant outlet plug					
CUSTOMIZING								
3N3392		1	Fumes disposal group					
2W0693		1	Service meter group					
2W1299		1	Regulator housing group					
1W8497		1	Water lines group					
1W6401		1	Fuel gauge group					
6N6093		1	Exhaust elbow group					
8N1963		1	Front fastener					

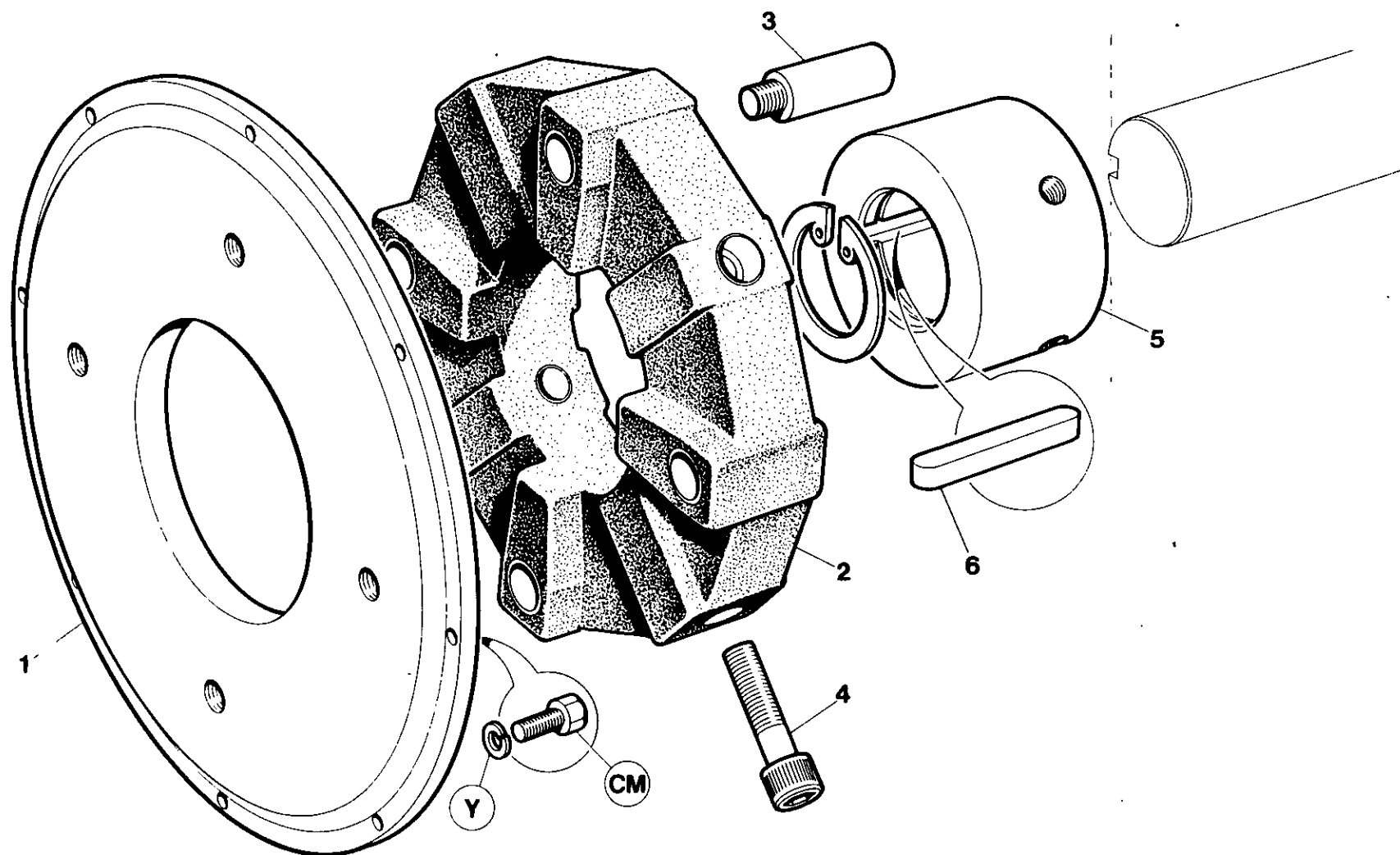
Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
	1W5374	1	Fuel priming pump group					
	2W7699	1	Manual shut off					
	1W6901	1	Fuel air ratio control					
	Leverton	1	Front tachometer frive arrange- ment as shown on Leverton G.A. No. B40716. Consisting of :- Adaptor assembly					
	1W2316	1	Adaptor assembly					
	OS1615	3	Bolt					
	9S211	3	Clamp					
	4N538	1	Coupling					
	EN1417	1	Modified bolt to Drg. No. D70331 Bolt Part No. (Cat) 7N2602 (Part of 1W4563 front timing gear group).					
	EN1614	1	Drive tang to Drg. No D70330					
	EN1029	1	Adaptor to Drg. No. B40715 welded to 2P8701 cover (part of 2P6528 front housing cover group)					
			LITERATURE					
	B40716	1	G.A. front tacho drive for 3304 and 3306 engines.					
	B40715	1	Adaptor and assembly to cover d drawing					
	D70330	1	Drive tang drawing					
	D70331	1	Bolt modification drawing above drawing available on request.					
	HEBP1451	1	Engine parts book					
	SEBU5779	1	 Supplied with each engine Operation guide					



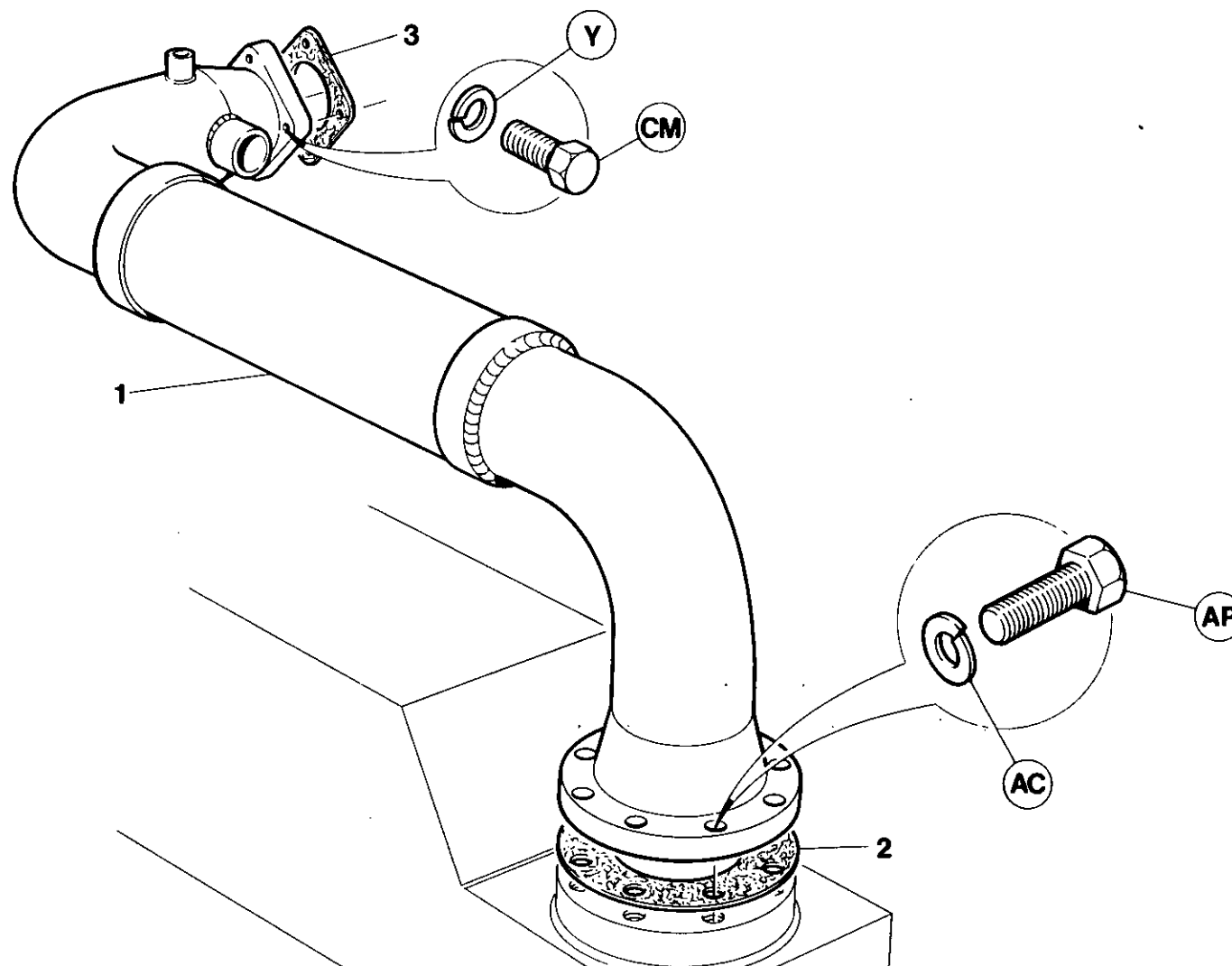
Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92517713	1	Front Bracket					
2	92519917	1	Mounting Bar					
3	92062157	2	Mount					
4	35273937	2	Snubber Washer					
5	35101468	2	Snubber Washer					

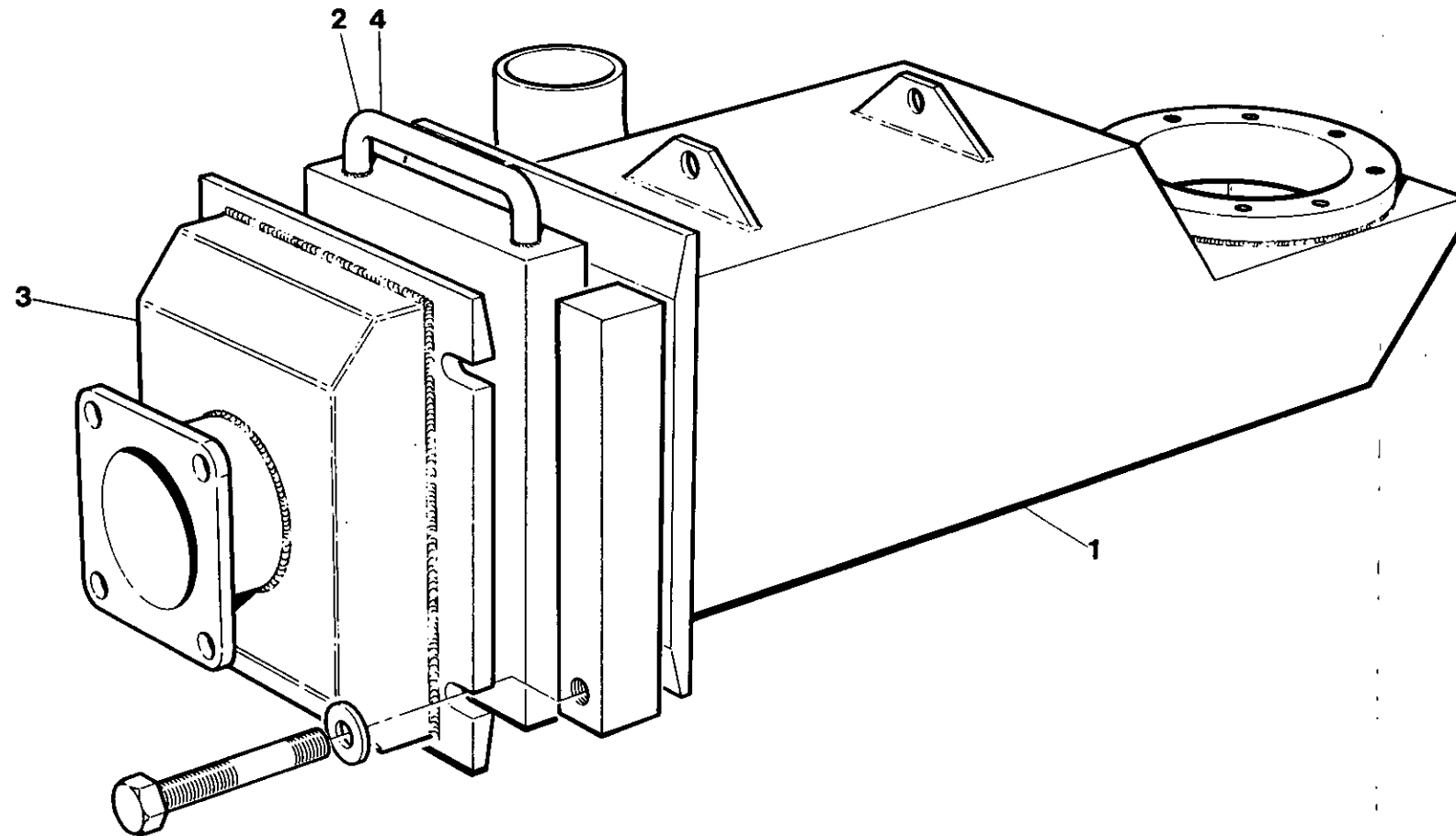


Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92028372	2	Mount					
2	92062157	2	Mount					
3	35273937	2	Snubber Washer					
4	35101468	2	Snubber Washer					
5	92549187	1	Support Plate					
6	92549286	1	Strut					
7	92549294	1	Strut					

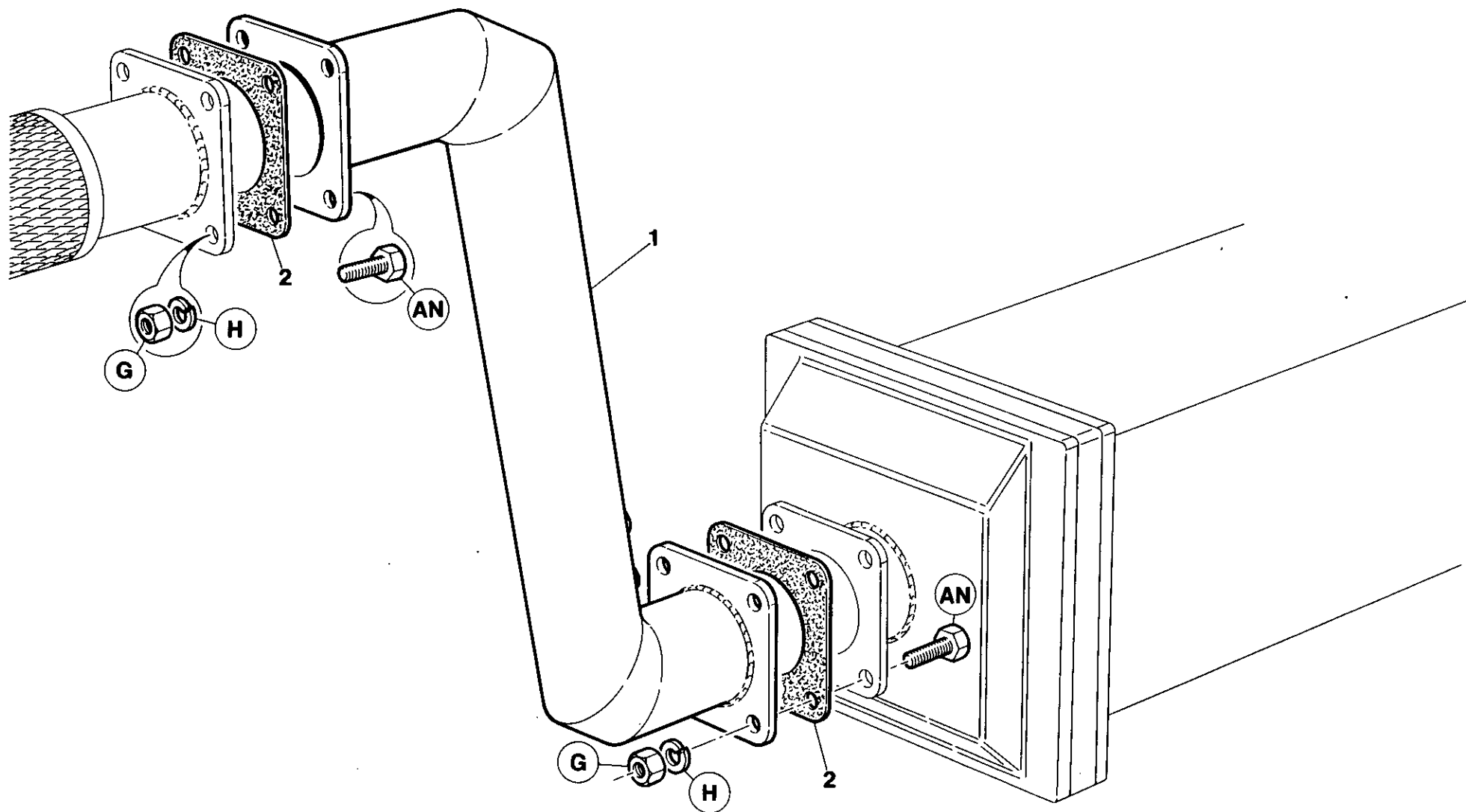


Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
(1-5)	92066208	1	Coupling Assy					
1	92034438	1	Drive Plate					
2	92041441	1	Element					
3	92041458	4	Bolt					
4	92041466	4	Bolt					
5	92034446	1	Hub					
6	95264560	1	Key					

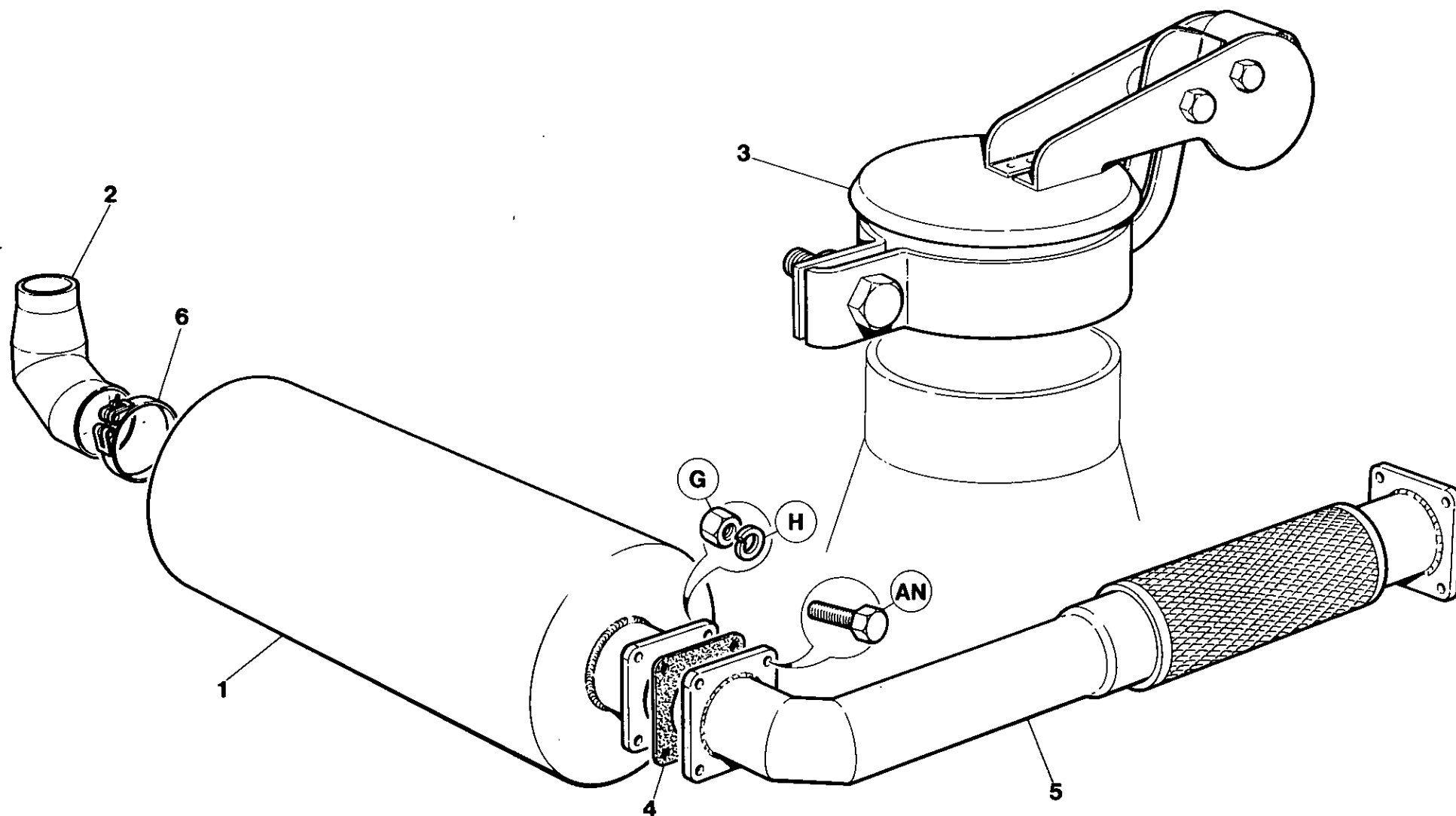




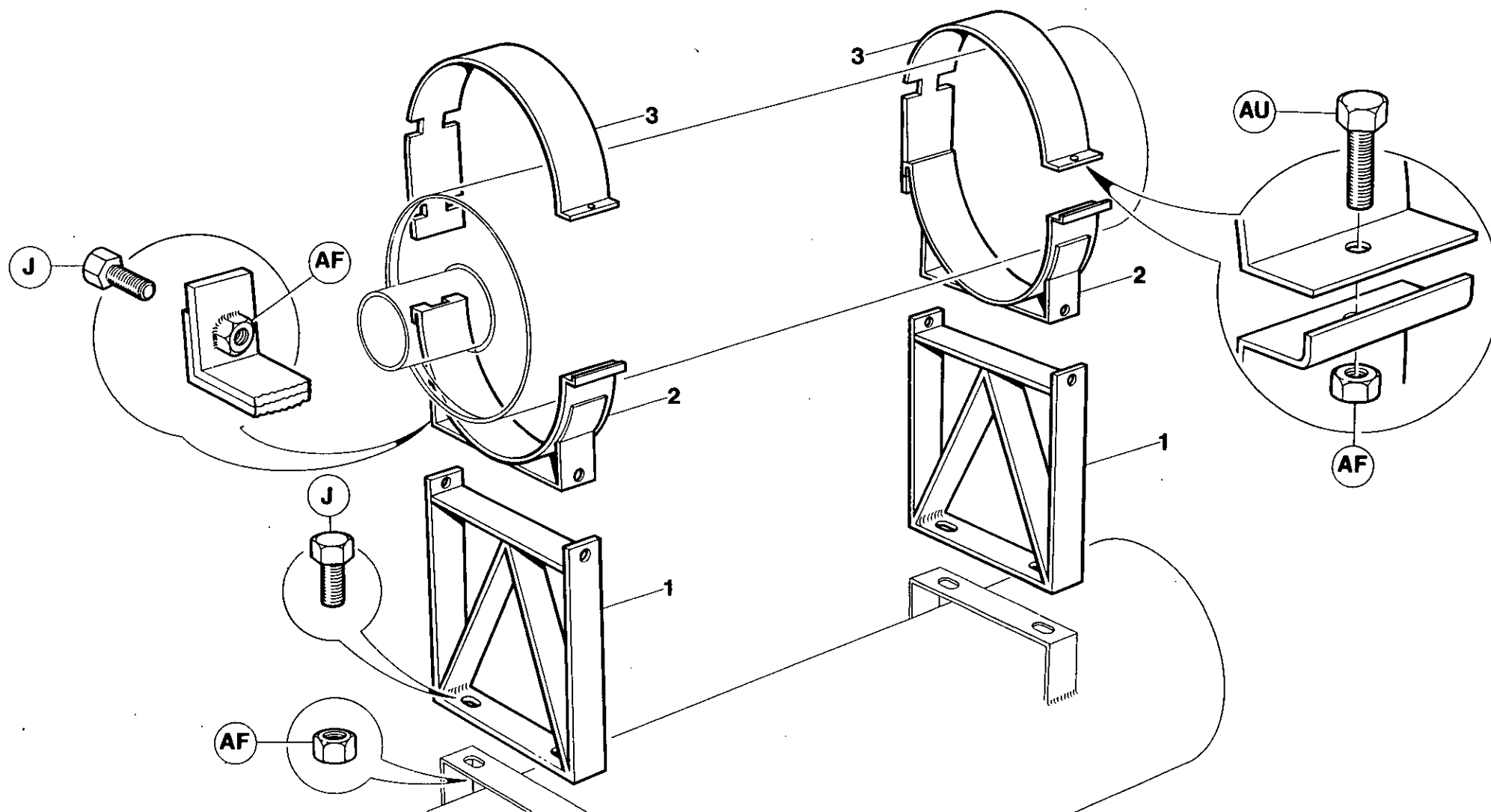
Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
(1-3)	92661933	1	Cooler Assy					
1	92544329	1	Cooler					
2	92546431	1	Flame Trap					
3	92546456	1	Outlet Box					
4	92657030	1	Dummy Flame Trap					



Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92677509	1	Pipe					
2	92517846	2	Gasket					

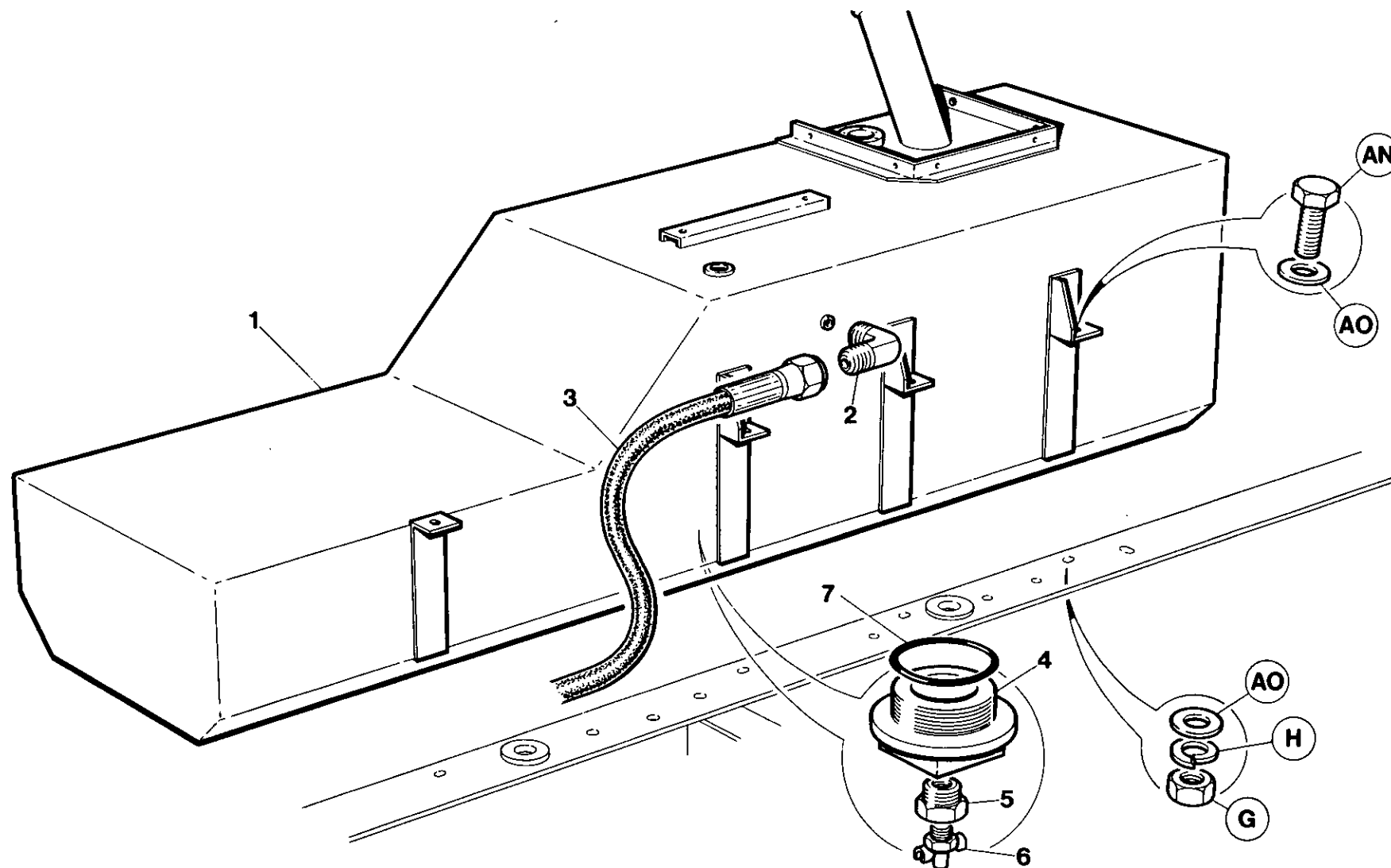


Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	اجهزة التدوير :
1	92544360	1	Spark Arrestor					
2	92546621	1	Tailpipe					
3	92252964	1	Raincap					
4	92517846	1	Gasket					
5	92677491	1	Pipe					
6	92548627	1	Clamp					

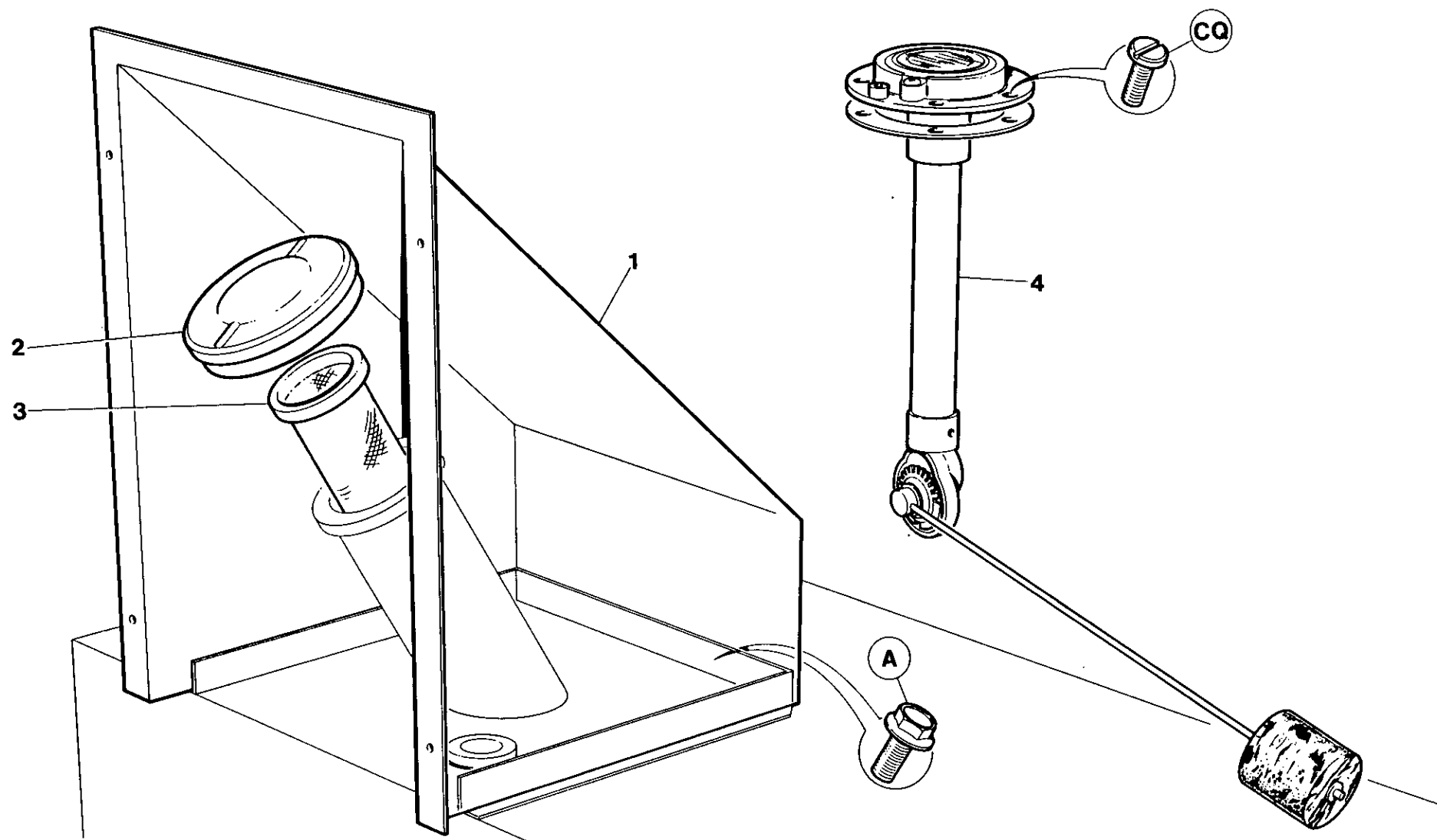


Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
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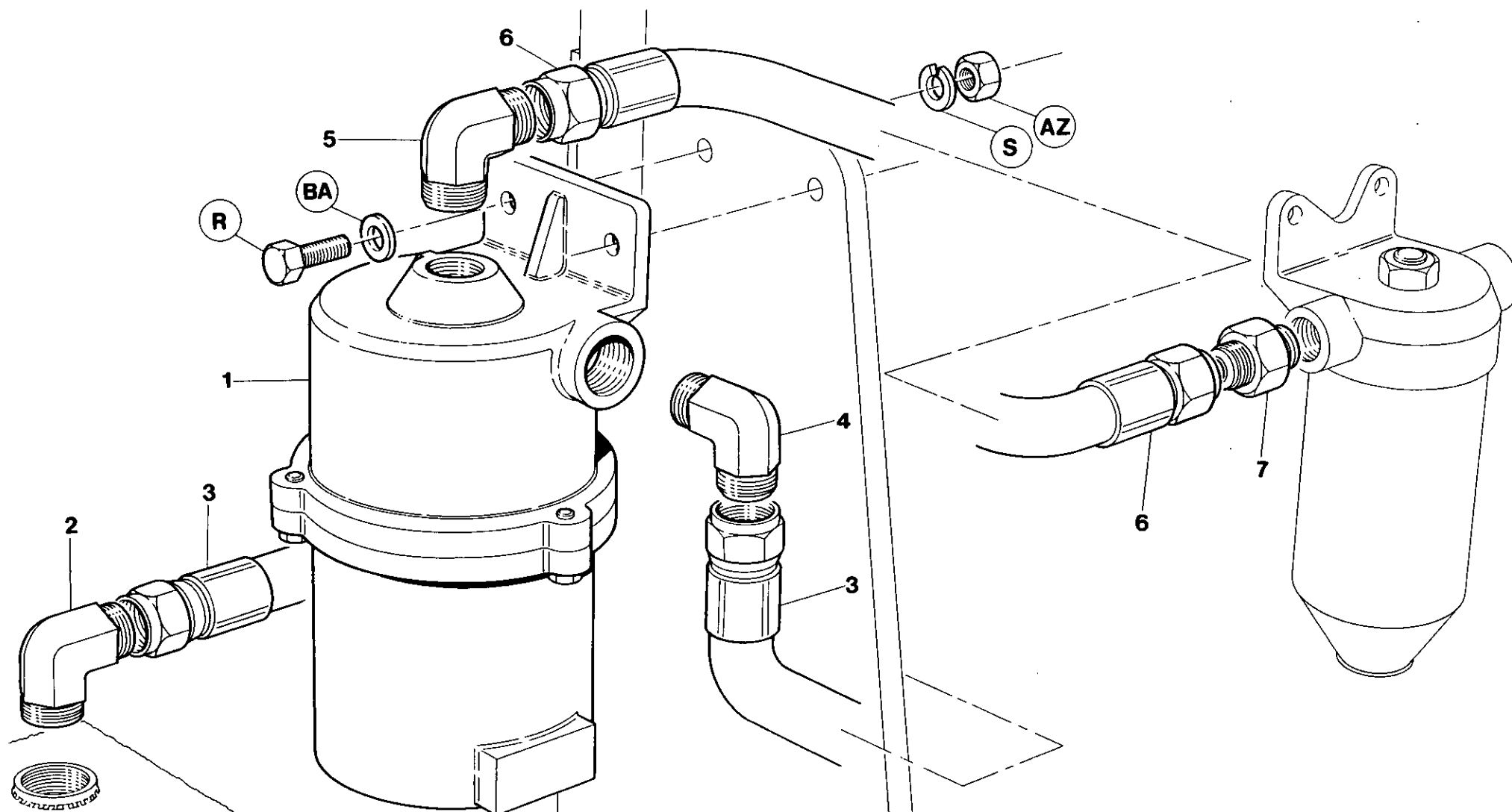
1	92549401	2	Support					
2	92055326	2	Mount					
3	92053875	2	Strap					



Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92540186	1	Tank					
2	92395458	1	Adaptor					
3	92520410	1	Hose					
4	92549450	1	Plug					
5	92354380	1	Bush					
6	92258706	1	Cock					
7	95358032	1	O-Ring					

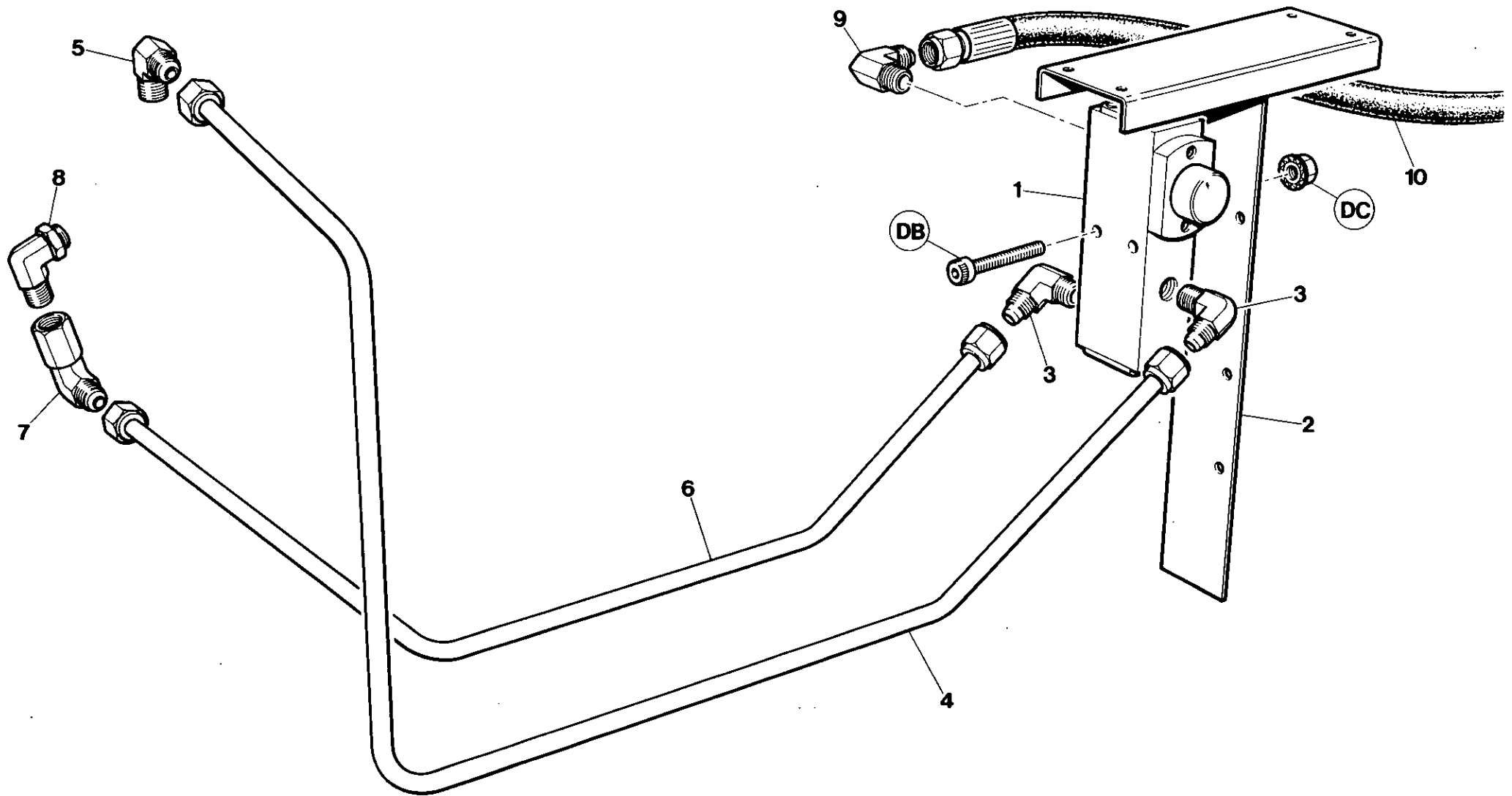


Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92540574	1	Box					
2	92120013	1	Cap					
3	92043058	1	Filter					
4	35804905	1	Gauge					



Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
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1	92547793	1	Water Trap					
2	92477207	1	Elbow					
3	92549658	1	Hose					
4	92395540	1	Elbow					
5	92395557	1	Elbow					
6	92548882	1	Hose					
7	35288166	1	Connector					



Item	C.P.N.	Qty	DRIVERS	DIVERS	ANTRIEB	GRUPPO MOTORE	ACCIONAMIENTO	أجهزة التدوير :
1	92546779	1	Fuel Shut-Off Valve					
2	92546787	1	Support					
3	92394261	2	Elbow					
4	92657295	1	Tube					
5	35283076	1	Elbow					
6	92657287	1	Tube					
7	35283068	1	Elbow					
8	35279827	1	Elbow					
9	92394261	1	Elbow					
10	92547652	1	Hose					

AIR END

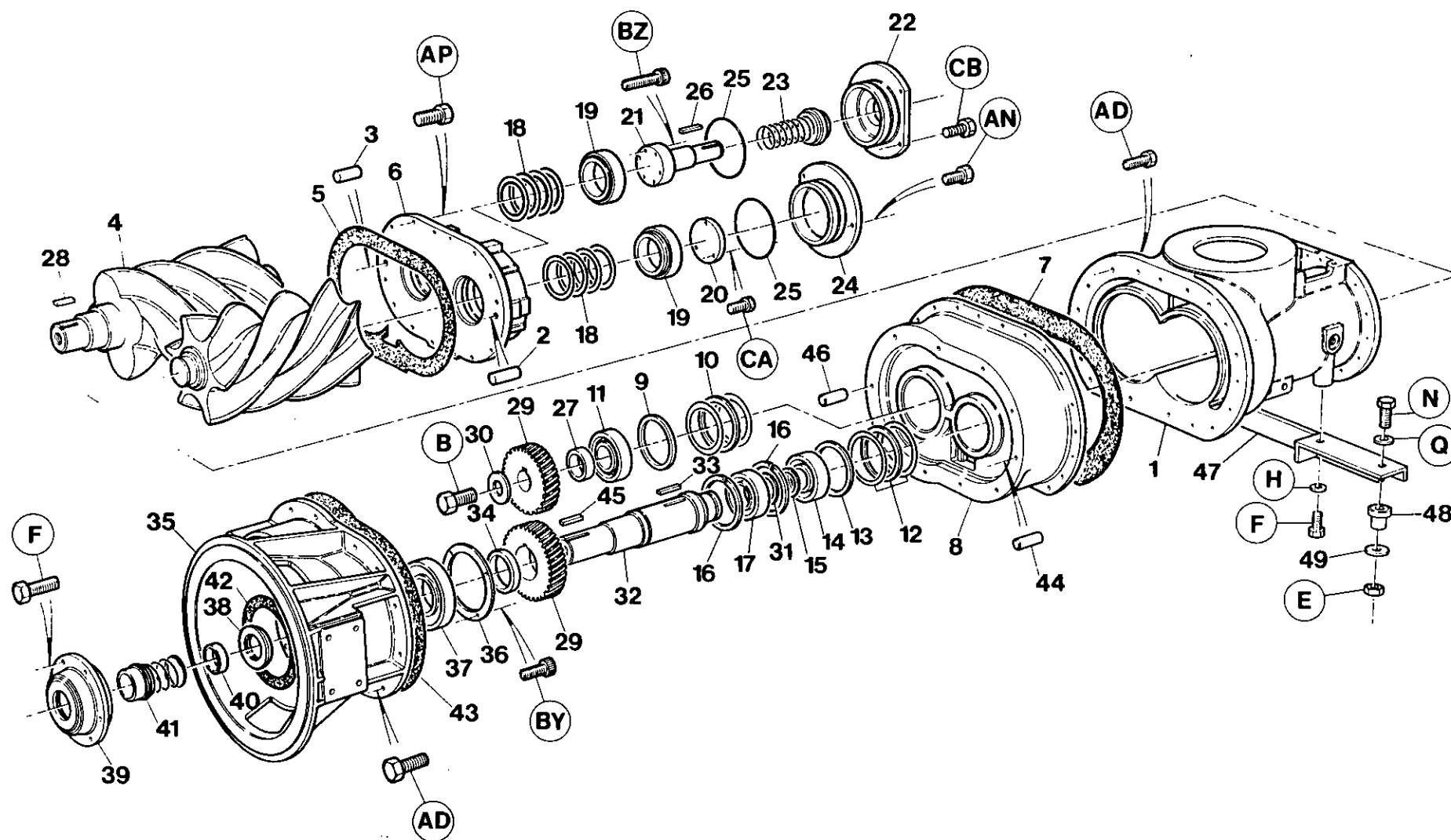
COMPRESSEUR

VERDICHTERTEIL

GRUPPO
COMPRESSORE

COMPRESOR

طرف تفريغ الهواء :



7.2.0

INGERSOLL-RAND

Item	C.P.N.	Qty	AIR END	COMPRESSEUR	VERDICHTERTEIL	GRUPPO COMPRESSORE	COMPRESOR	طرف تفريغ الهواء :
1	36711158	1	Housing					
2	95239927	2	Pin					
3	35290881	2	Pin					
4	35052125	1	Rotor Set					
5	35572502	1	Gasket					
6	92517333	1	Housing					
7	35518356	1	Gasket					
8	36711620	1	Housing					
9	35299296	1	Spacer					
10	35299288	1	Spring Set					
11	35299262	1	Bearing					
12	35299304	1	Spring Set					
13	35299312	1	Spacer					
14	35299270	1	Bearing					
15	35299338	1	Retaining Ring					
16	95223178	2	Retaining Ring					
17	35264977	1	Bearing					
18	35299361	2	Shim Set					
19	35299254	2	Bearing					
20	35299320	1	Plate					
21	35598226	1	Shaft					
22	35594142	1	Cover					
23	35593482	1	Seal					
24	92035914	1	Cover					
25	95358198	2	O-Ring					
26	35280551	1	Key					
27	35299346	1	Spacer					
28	95381091	1	Key					
29	92075498	1	Gear Set					
30	35255819	1	Clamp Plate					
31	95096806	1	Retaining Ring					
32	35851146	1	Shaft					
33	95381125	1	Key					

AIR END

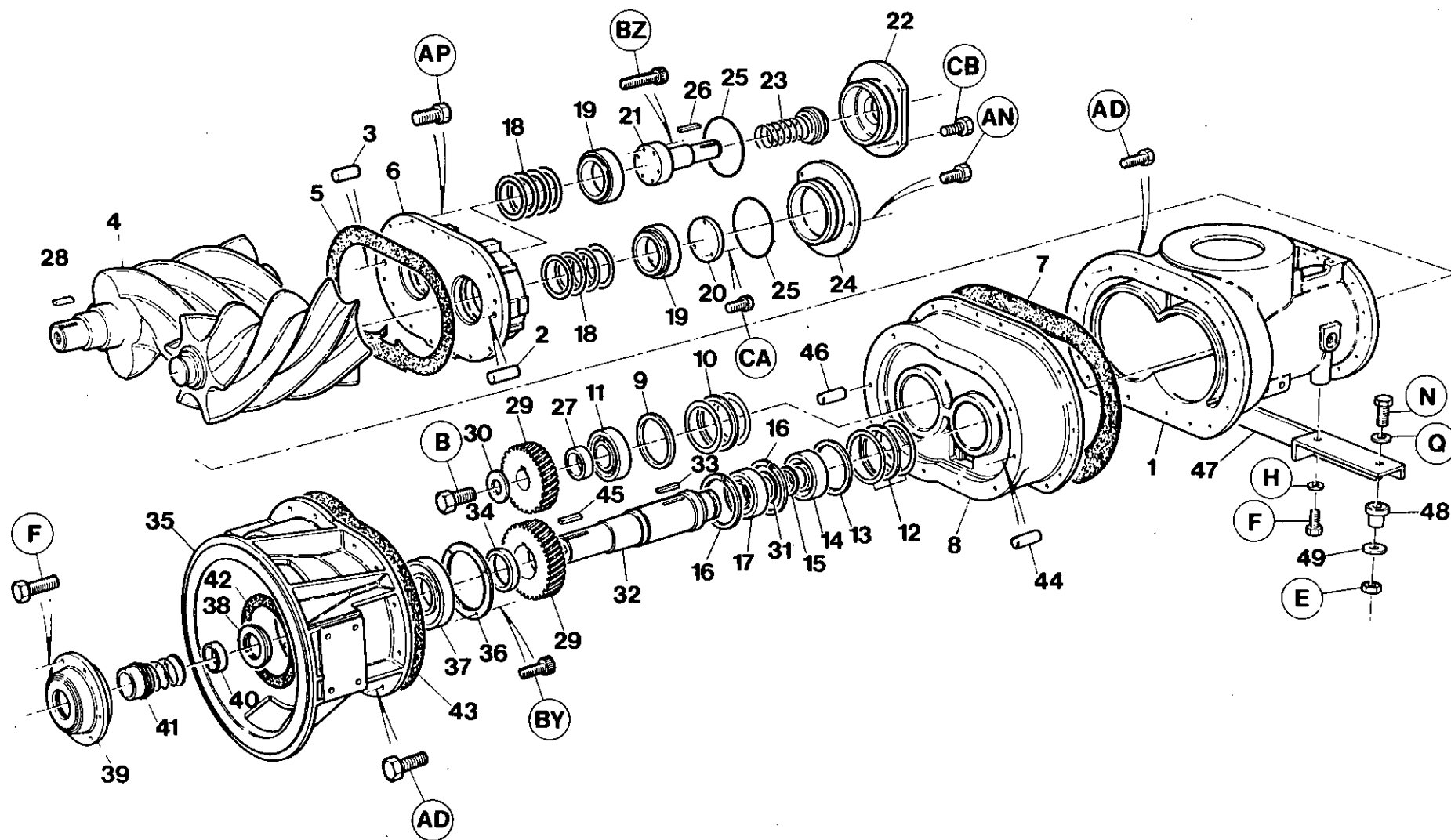
COMPRESSEUR

VERDICHTERTEIL

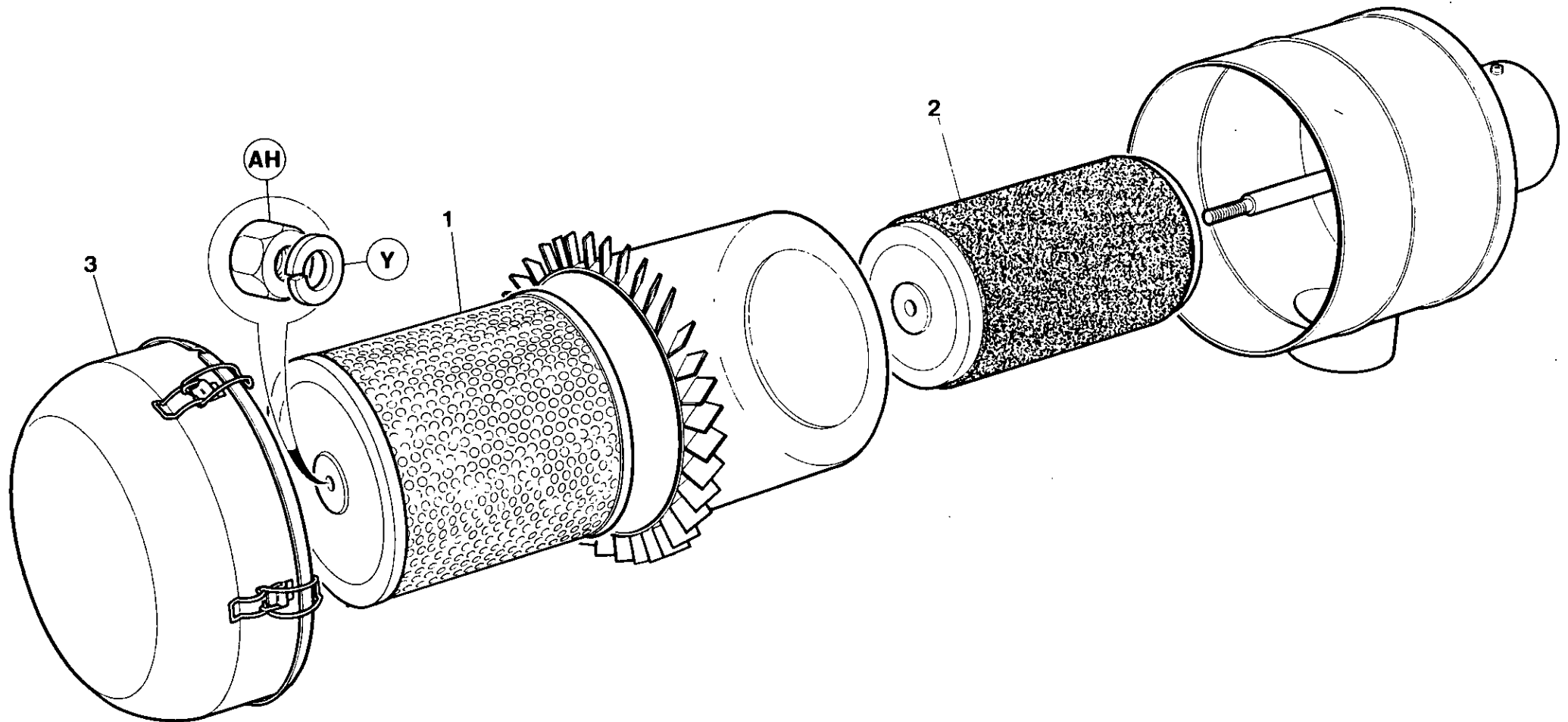
GRUPPO
COMPRESSORE

COMPRESOR

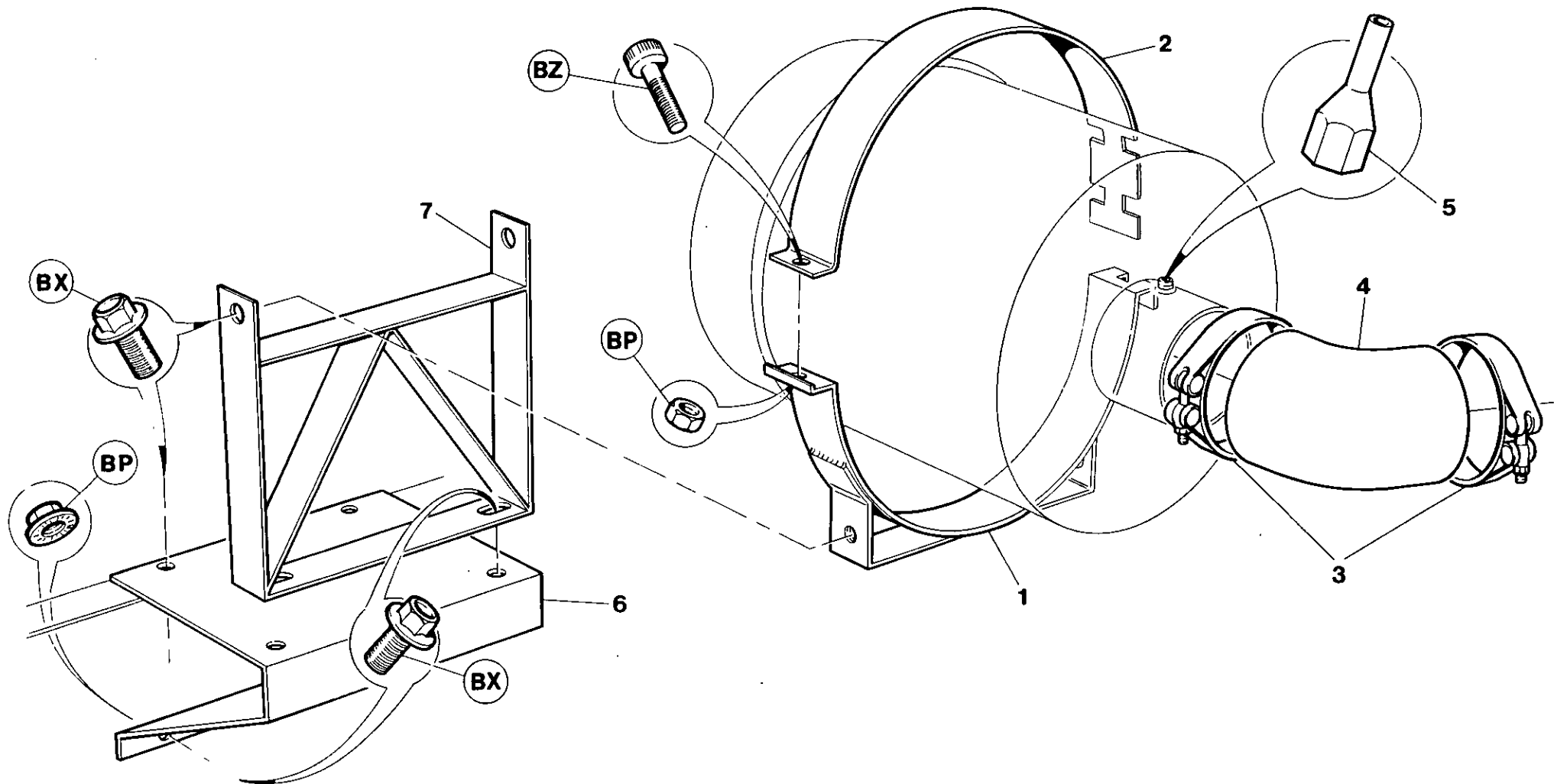
طرف تفرغ الهواء :



Item	C.P.N.	Qty	AIR END	COMPRESSEUR	VERDICHTERTEIL	GRUPPO COMPRESSORE	COMPRESOR	طرف تفريغ الهواء :
34	35269232	1	Spacer					
35	92512490	1	Gear Case					
36	35573070	1	Plate					
37	35601517	1	Bearing					
38	35104082	1	Nut					
39	35592757	1	Cover					
40	35337583	1	Spacer					
41	35593508	1	Seal					
42	35210087	1	Gasket					
43	35572494	1	Gasket					
44	95239919	1	Pin					
45	95264560	1	Key					
46	35290881	1	Pin					
47	92067339	1	Mount					
48	92062157	2	Mount					
49	35273937	2	Washer					
50	35278555	1	Plug					

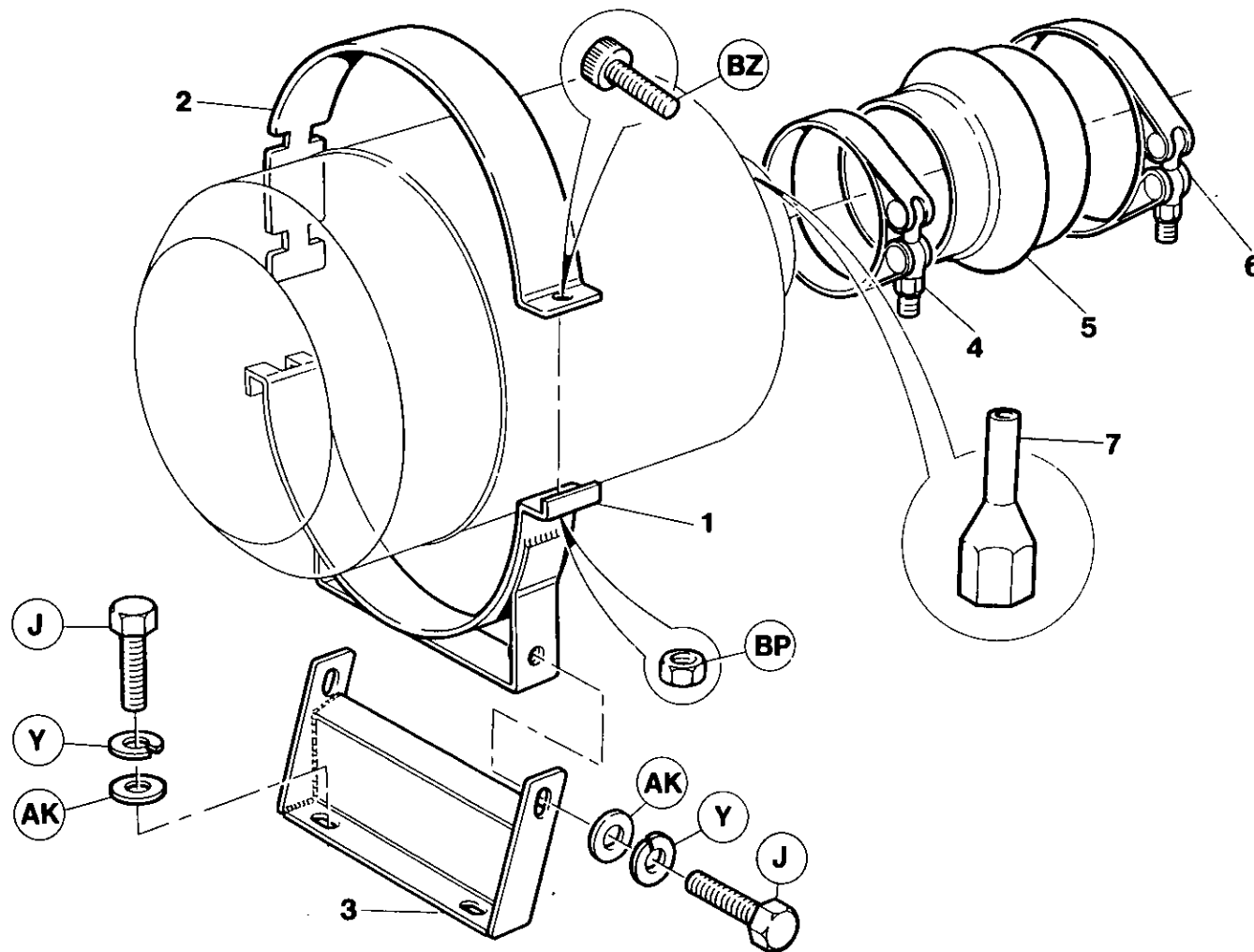


Item	C.P.N.	Qty	AIR INTAKE SYSTEM	ADMISSION D'AIR	LUFTEINLASS-SYSTEM	SISTEMA DI AMMISSIONE	SISTEMA DE ADMISION DE AIRE	جهاز سحب الهواء :
(1-3)	92055300	2	Air Filter Assy					
1	92035948	1	Element					
2	92035955	1	Safety Element					
3	92035963	1	End Cap					

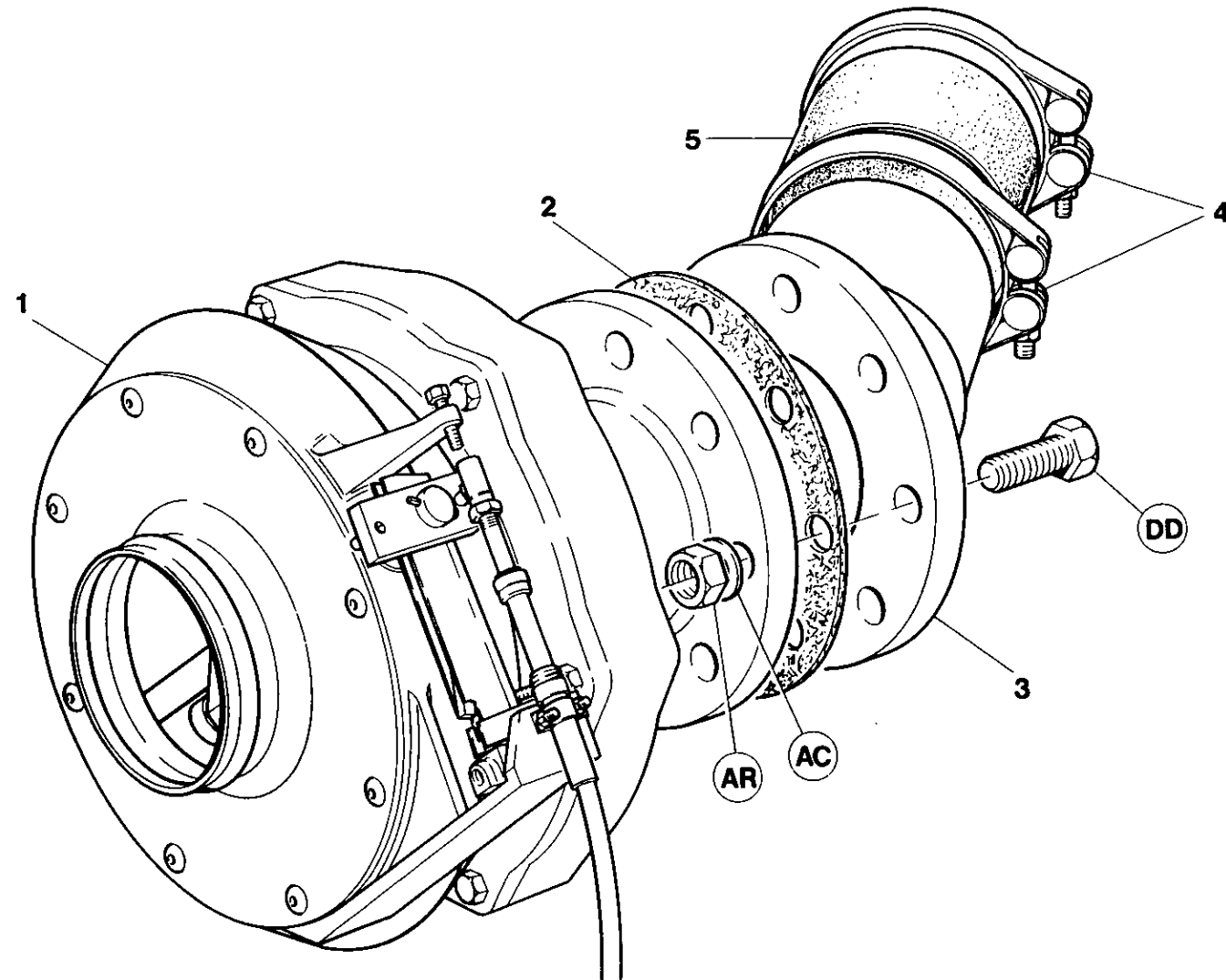


Item	C.P.N.	Qty	AIR INTAKE SYSTEM	ADMISSION D'AIR	LUFTEINLASS-SYSTEM	SISTEMA DI AMMISSIONE	SISTEMA DE ADMISION DE AIRE	جهاز سحب الهواء :
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1	92055326	1	Mount					
2	92053875	1	Strap					
3	92472943	2	Clamp					
4	35117845	1	Elbow					
5	92055235	1	Tailpiece					
6	92657188	1	Bracket					
7	92657196	1	Bracket					

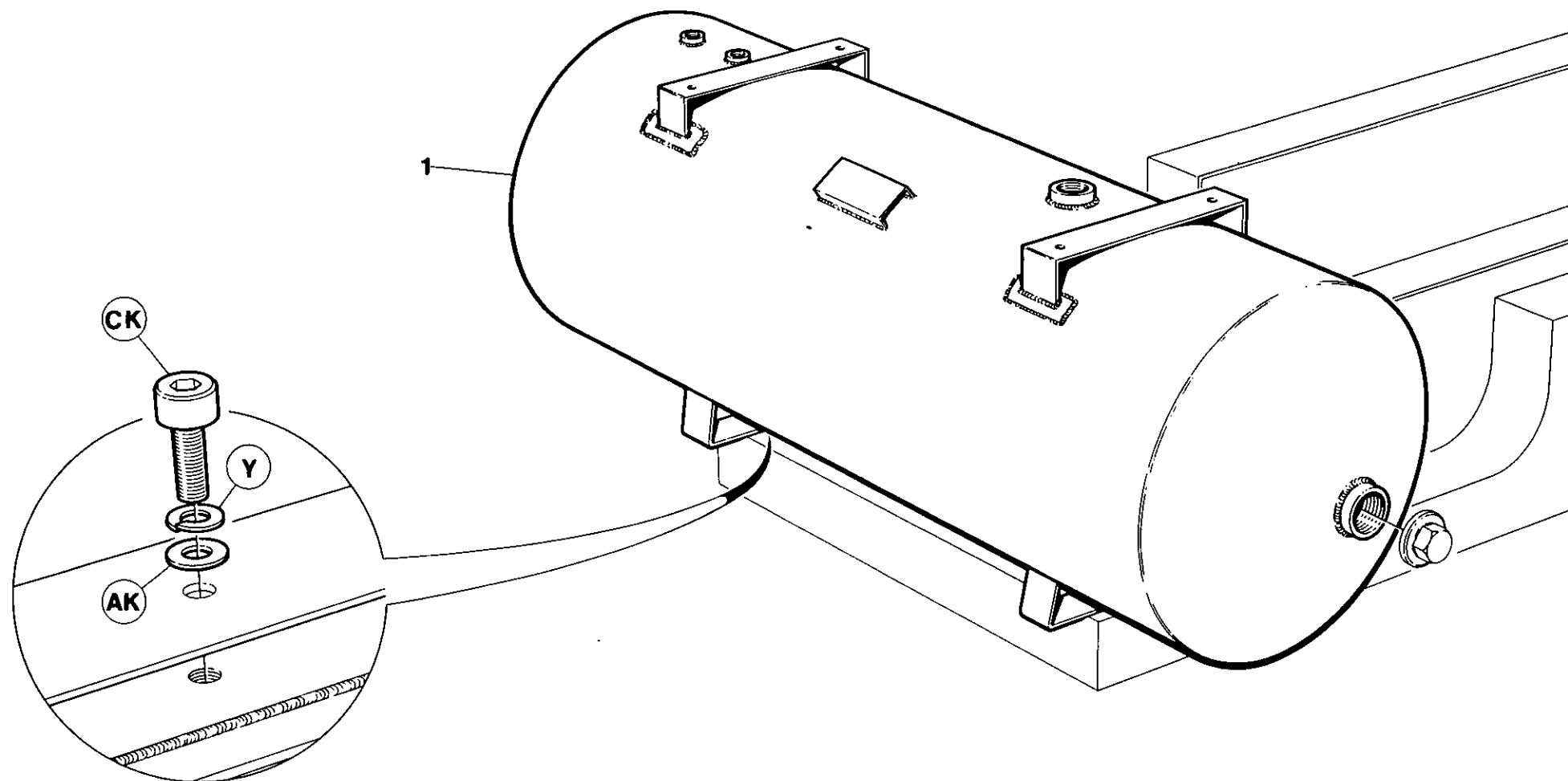


Item	C.P.N.	Qty	AIR INTAKE SYSTEM	ADMISSION D'AIR	LUFTEINLASS-SYSTEM	SISTEMA DI AMMISSIONE	SISTEMA DE ADMISION DE AIRE	جهاز سحب الهواء
1	92055326	1	Mount					
2	92053875	1	Strap					
3	92058593	1	Support					
4	92472943	1	Clamp					
5	35112333	1	Hose					
6	92472950	1	Clamp					
7	92055235	1	Tailpiece					

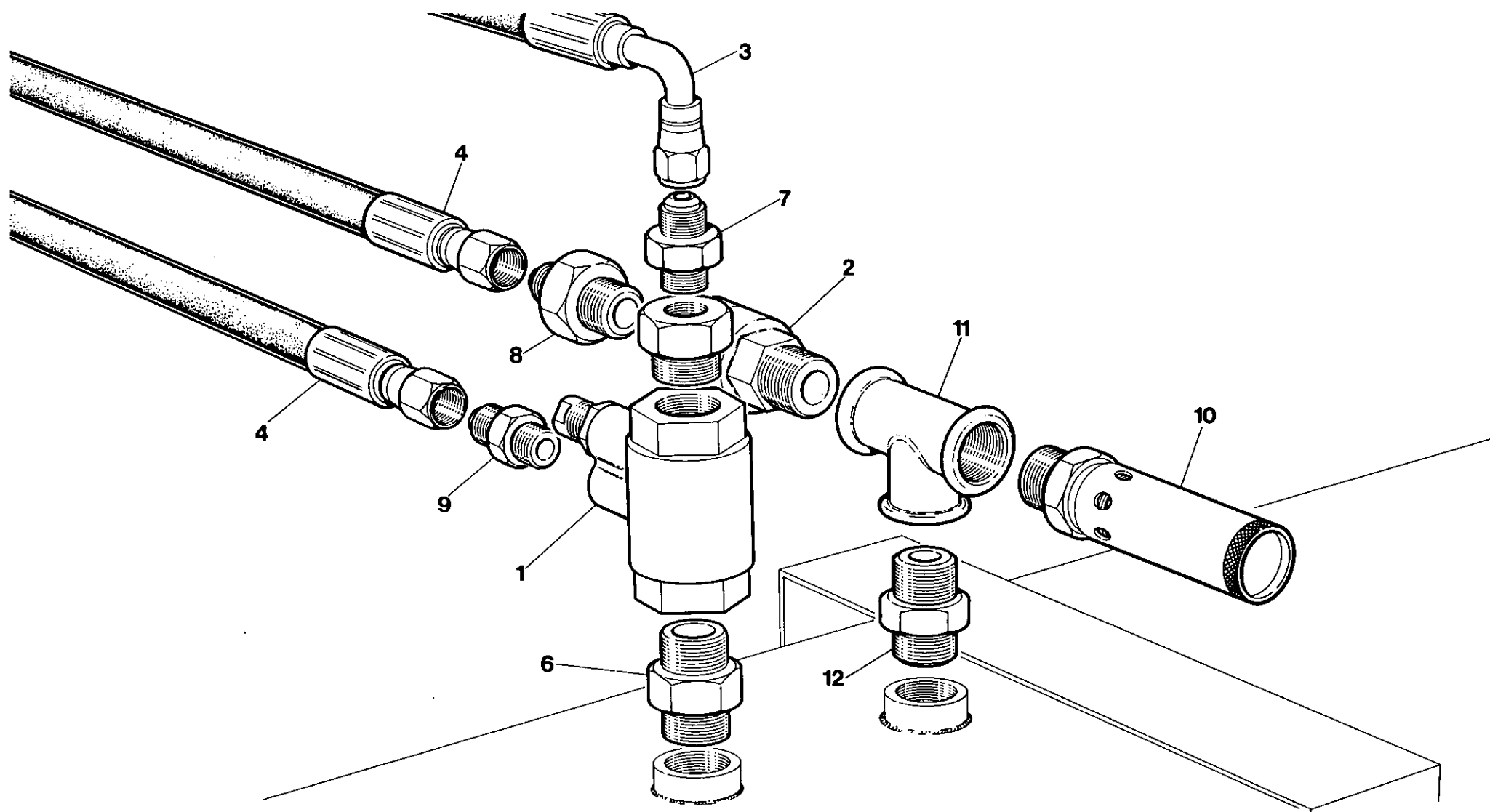


Item	C.P.N.	Qty	AIR INTAKE SYSTEM	ADMISSION D'AIR	LUFTEINLASS-SYSTEM	SISTEMA DI AMMISSIONE	SISTEMA DE ADMISION DE AIRE	جهاز سحب الهواء :
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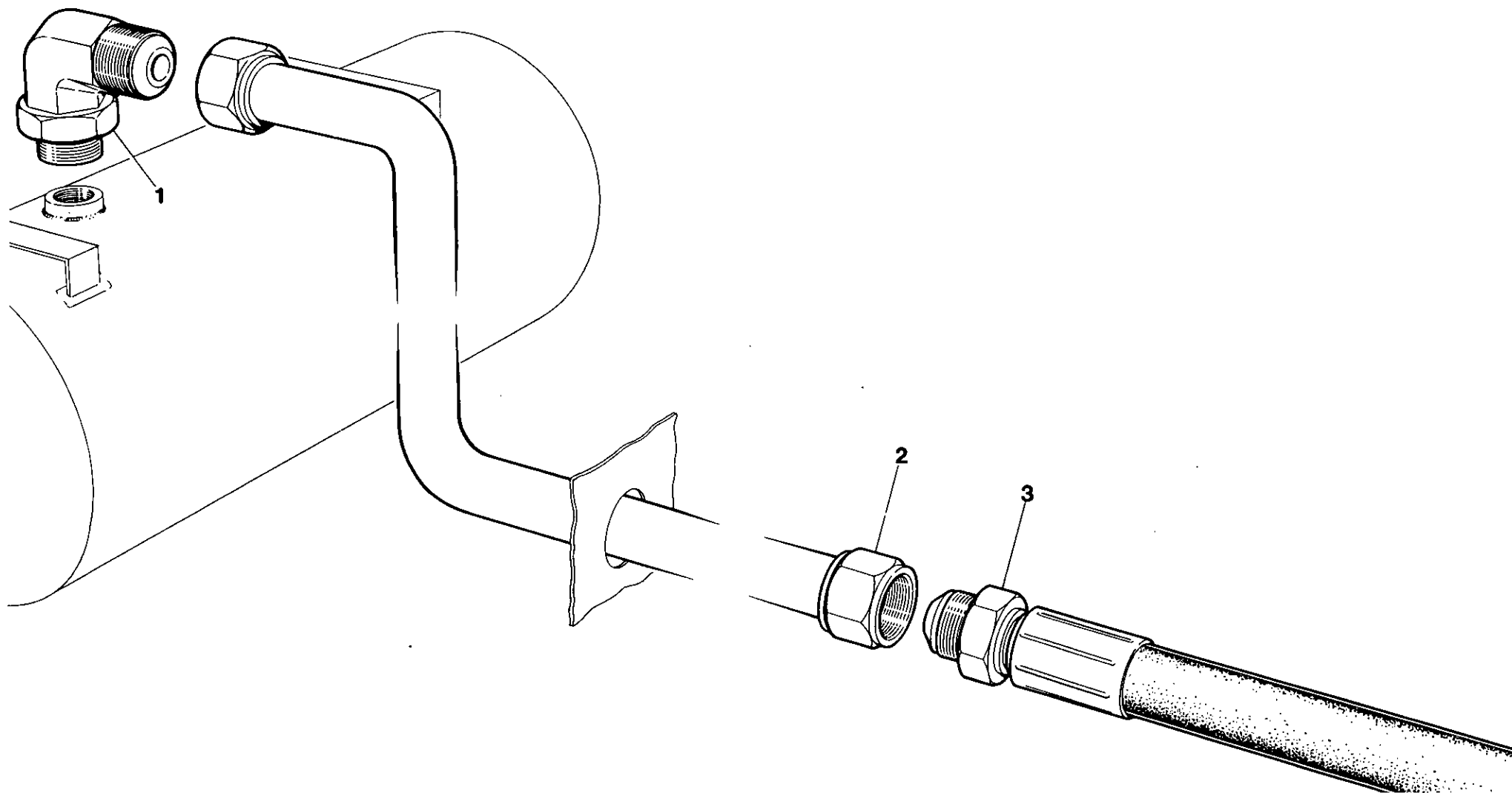
1	92544337	1	Inlet Valve					
2	92546498	1	Gasket					
3	92546449	1	Adaptor					
4	92280239	2	Clamp					
5	35117845	1	Hose					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92536903	1	Receiver B.S.					
1	92657964	1	Receiver Composite					

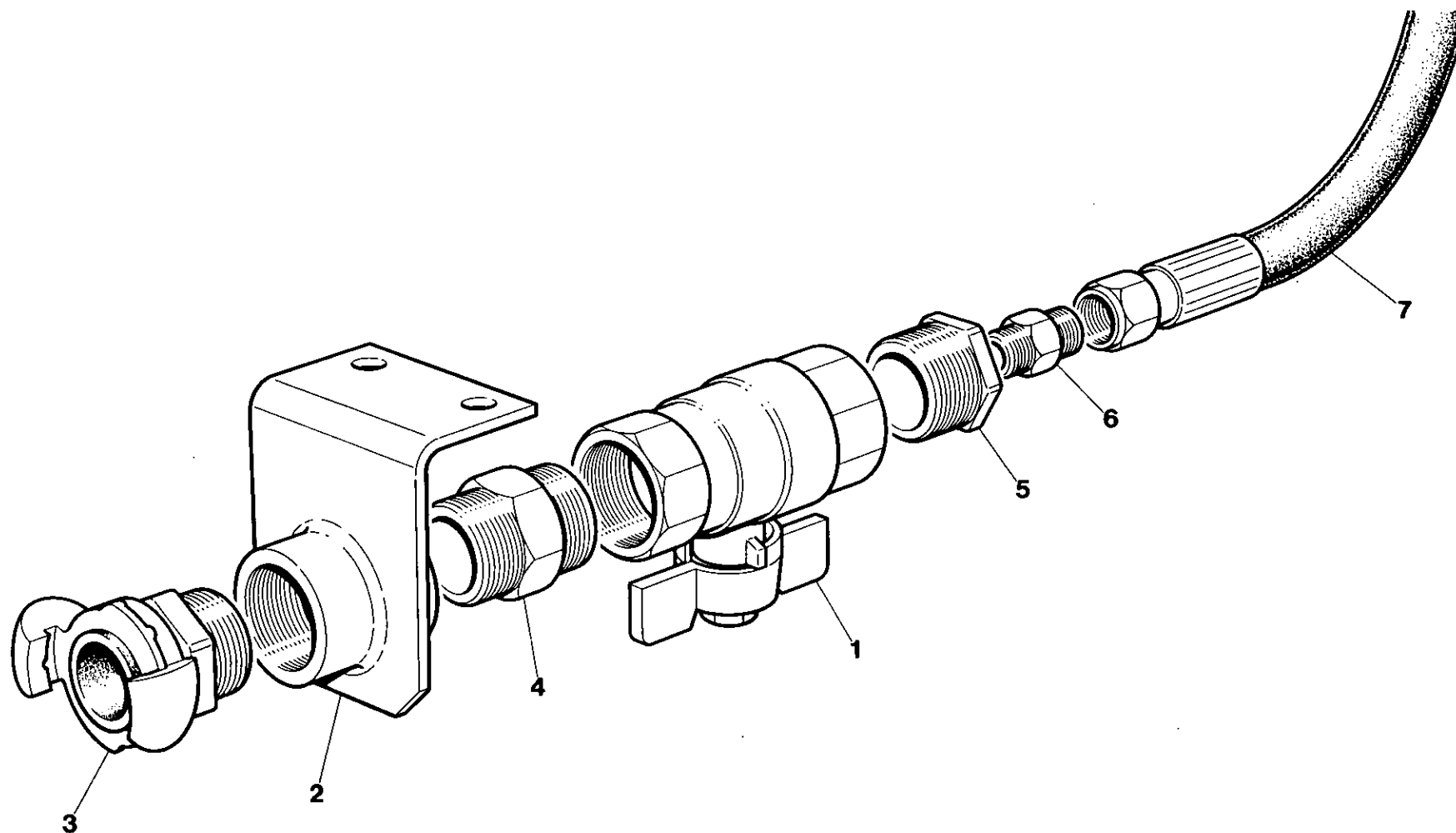


Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	03604428	1	Check Valve					
2	03457280	1	Check Valve					
3	92546878	1	Hose					
4	92520360	2	Hose					
5	92252733	1	Reducing Bush					
6	92255934	1	Nipple					
7	92492800	1	Connector					
8	92478270	1	Connector					
9	92478387	1	Connector					
10	92078054	1	Valve					
11	92258755	1	Tee					
12	92008382	1	Nipple					

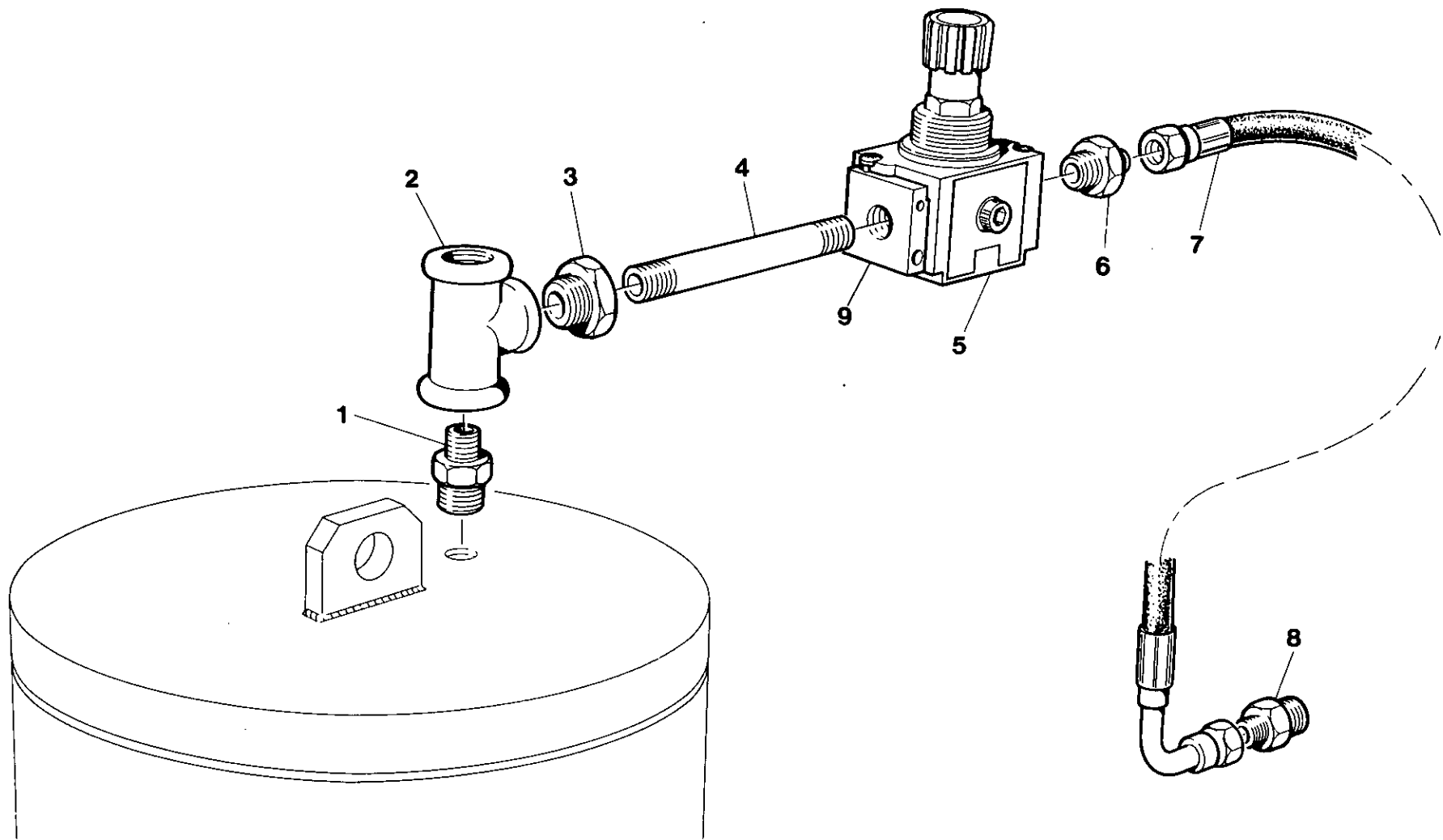


Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
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1	92478221	1	Elbow					
2	92536432	1	Tube					
3	92658038	1	Hose					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92294461	1	Valve					
2	92657048	1	Bracket					
3	92178524	1	Coupling					
4	92255934	1	Nipple					
5		1	Reducing Bush					
6		1	Connector					
7	92546878	1	Hose					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92354570	1	Nipple					
2	92023167	1	Tee					
3	92481126	1	Reducing Bush					
4	92472737	1	Space Nipple					
5	92540251	1	Pressure Regulator					
6	92492800	1	Connector					
7	92546878	1	Hose					
8	92544246	1	Adaptor					
9	92666197	1	Kit, Port Block					

REGULATION

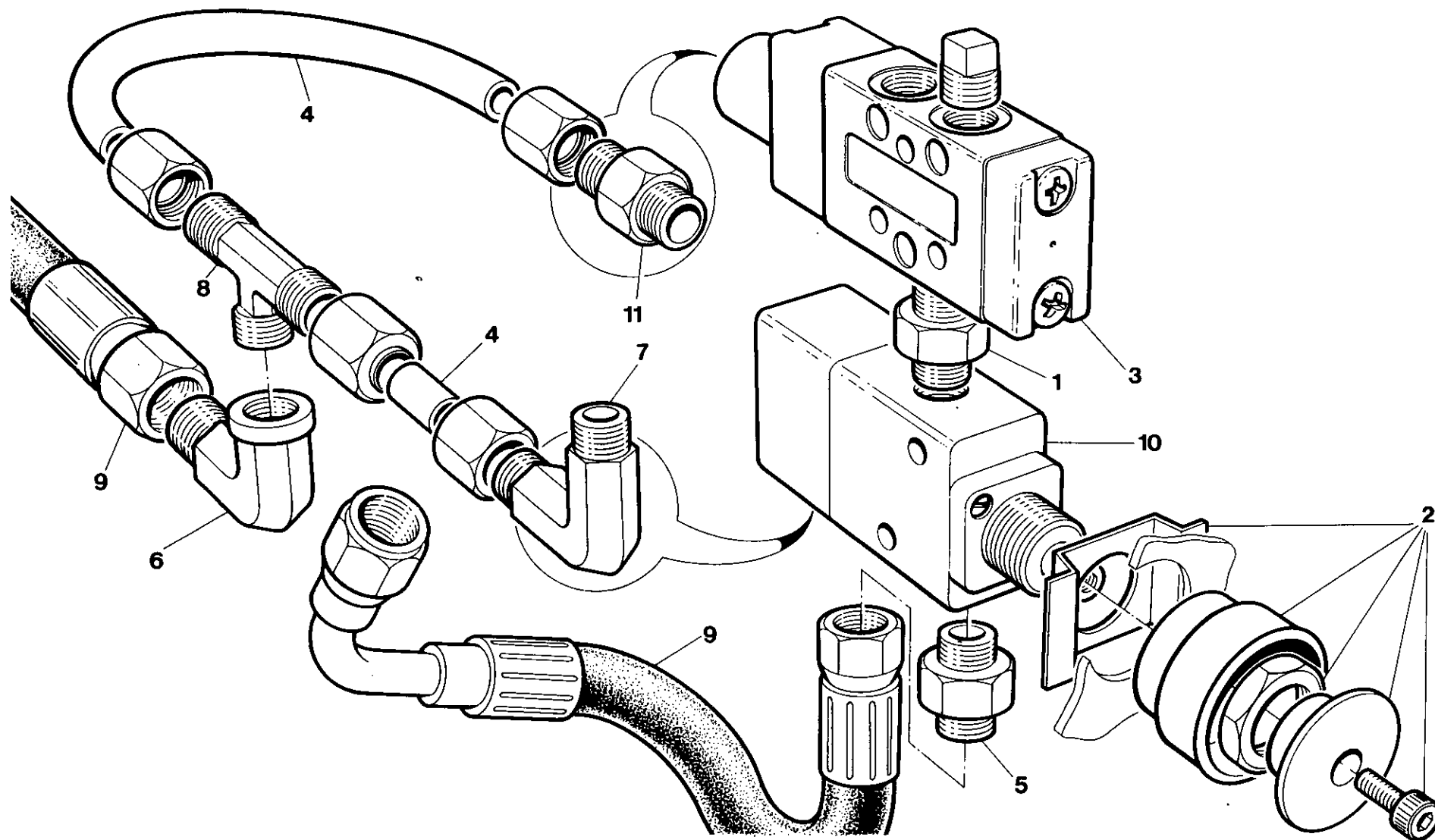
REGULATION

REGELUNG

REGOLAZIONE

REGULACION

جهاز التنظيم :

**7.4.10****INGERSOLL-RAND**

Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92661685	1	Push Button Valve					
2	92661677	1	Knob					
3	92547736	1	Pilot Valve					
4	92490358	,2m	Tube					
5	92029651	4	Adaptor					
6	35301225	1	Elbow					
7	92395433	1	Elbow					
8	92100957	1	Tee					
9	92100924	2	Hose					
10	92354521	1	Connector					
11	92029651	1	Connector					

REGULATION

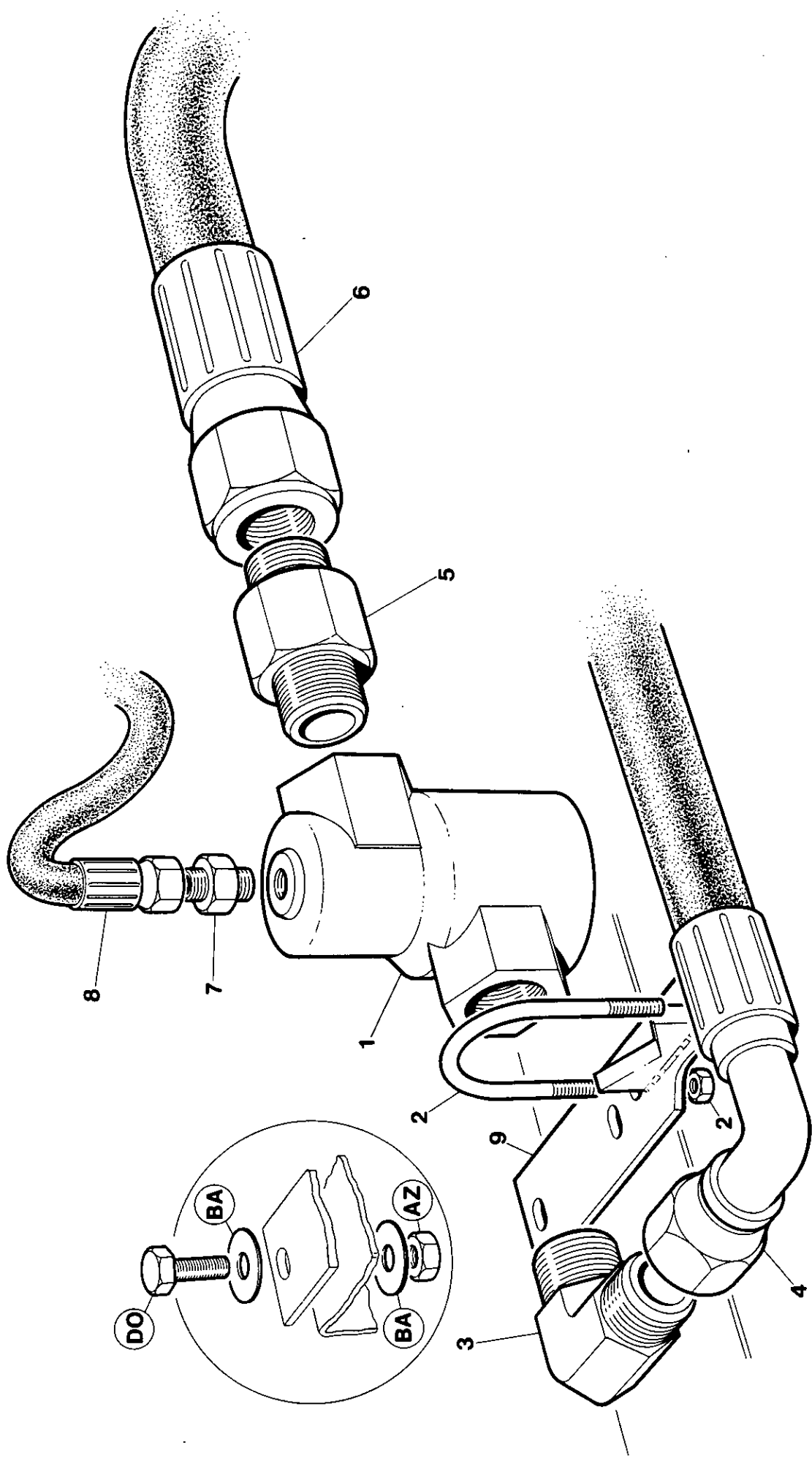
REGULATION

REGELUNG

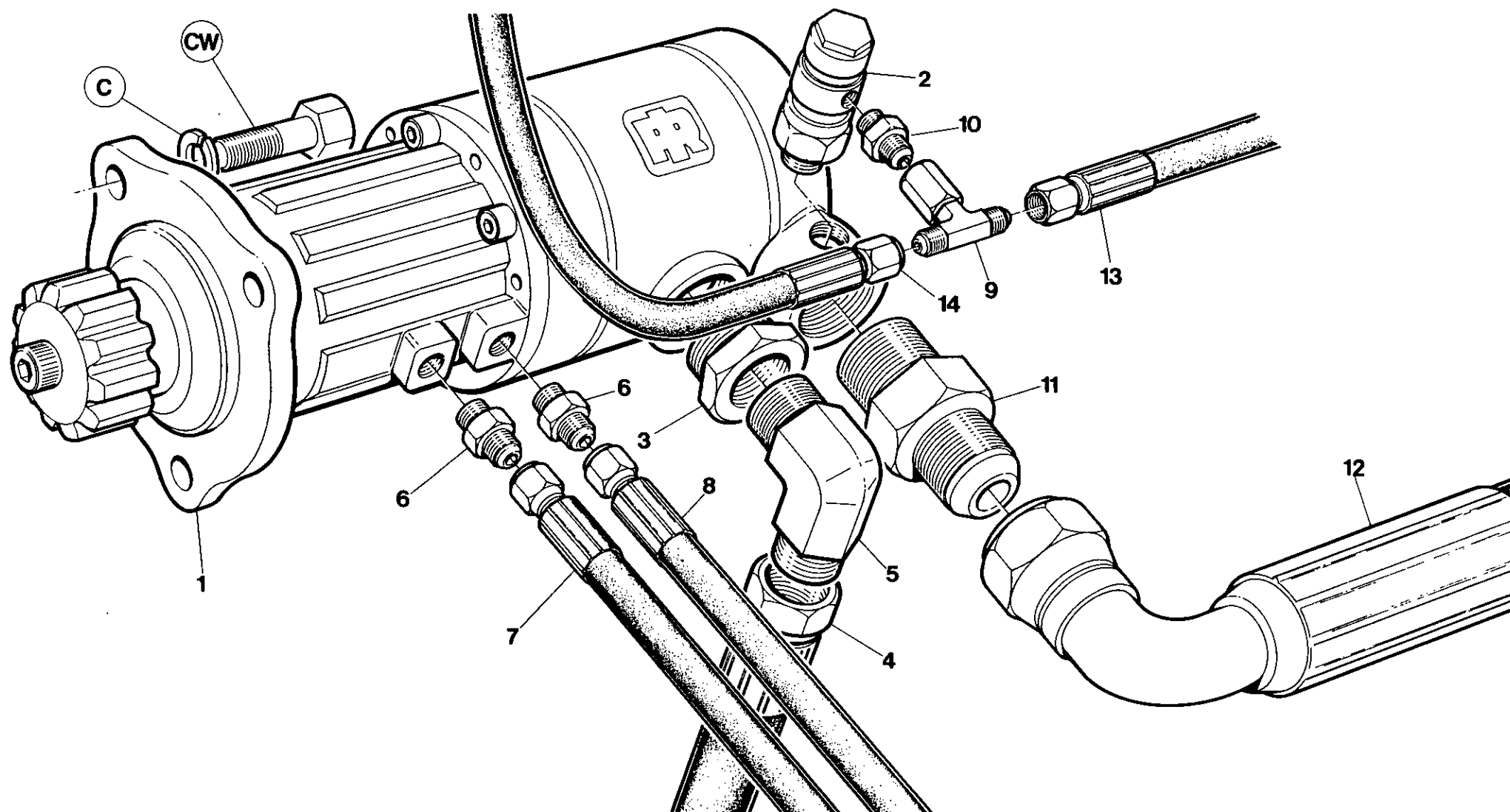
REGOLAZIONE

REGULACION

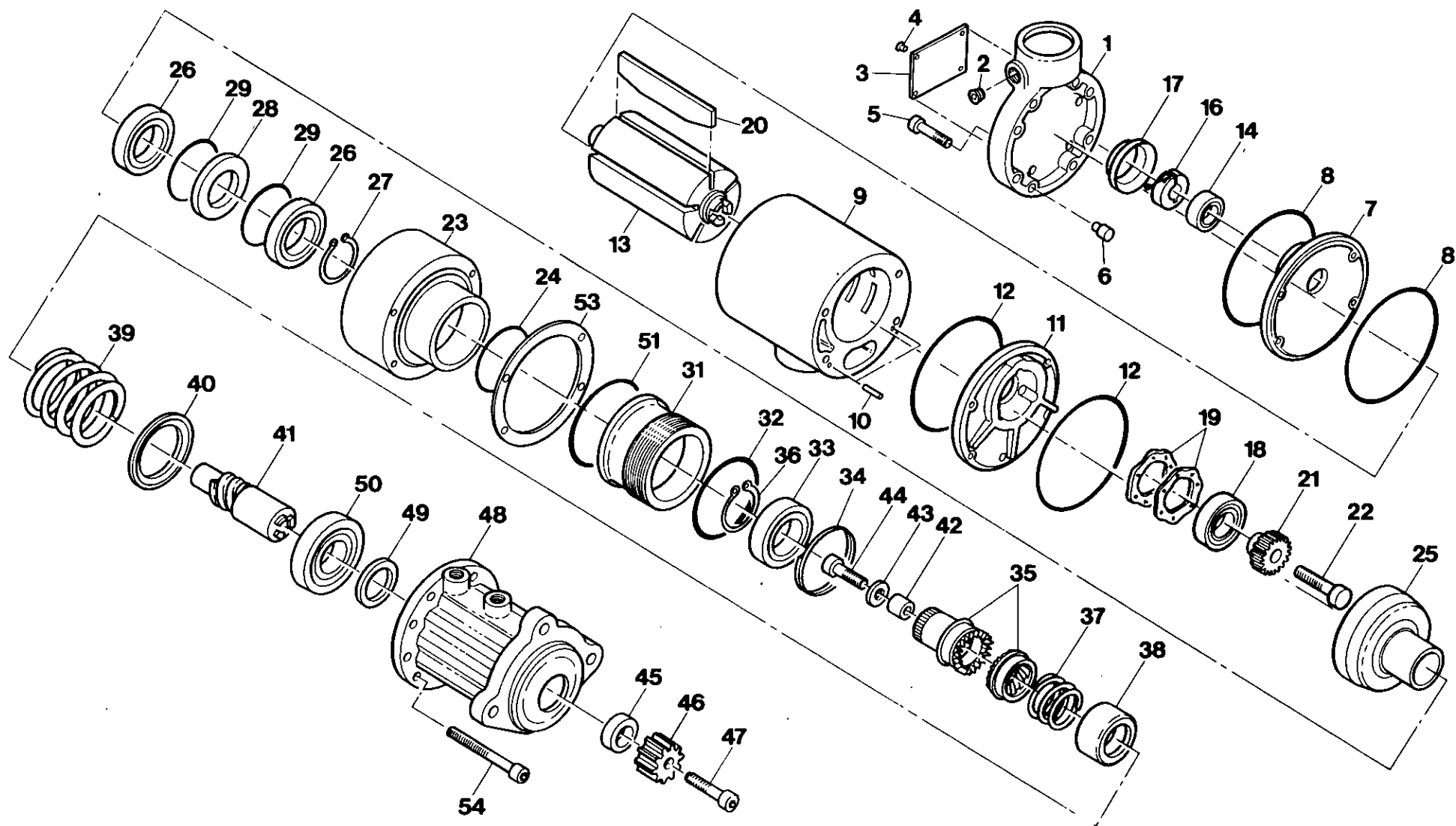
جهاز التنظيم :



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	03691102	1	Relay Valve					
2	92658137	1	U-Bolt					
3	92511344	1	Elbow					
4	92658038	1	Hose					
5	92478379	1	Adaptor					
6	92546845	1	Hose					
7	35283472	1	Adaptor					
8	92546878	1	Hose					
9	92662402	1	Bracket					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	01206275	1	Air Starter Comp.					
2	03604378	1	Lubricator					
3	92478379	1	Adaptor					
4	92657352	1	Hose					
5	92511344	1	Elbow					
6	35283472	2	Connector					
7	92520428	1	Hose					
8	92547629	1	Hose					
9	92109875	1	Tee					
10	92479674	1	Connector					
11	92478379	1	Connector					
12	92658038	1	Hose					
13	92546878	1	Hose					
14	92520410	1	Hose					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
	01206275	1	Air Starter Complete					
1	03697786	1	Housing					
2	03719069	2	Plug					
3	03614716	1	Nameplate					
4	03154226	4	Screw					
5	03698446	4	Capscrew					
6	03698404	4	Plug					
7	03697752	1	End Plate					
8	03697521	2	O-Ring					
9	03698578	1	Cylinder Housing Kit					
10	03697372	4	Dowel					
11	03697653	1	Front End Plate					
12	03697521	2	O-Ring					
13	03697737	1	Rotor					
14	03697265	1	Bearing					
16	03697448	1	Nut					
17	03697406	1	Cover					
18	03173457	1	Bearing					
19	03697380	2	Washer					
20	03707684	5	Vane					
21	03697695	1	Pinion					
22	03698099	1	Screw					
23	03699311	1	Gear Case					
24	03697281	1	O-Ring					
25	03698040	1	Gear					
26	03697240	2	Bearing					
27	03697398	1	Retaining Ring					
28	03697299	1	Seal					
29	03697315	2	Retaining Ring					
31	03698560	1	Piston					
32	03697356	1	O-Ring					
33	03697257	1	Bearing					
34	03697307	1	Retaining Ring					
35	03698461	1	Clutch Jaw					
36	03697398	1	Retaining Ring					
37	03697190	1	Spring					
38	03697423	1	Cup					
39	03698115	1	Spring					
40	03697497	1	Seat					
41	03697851	1	Drive Shaft					
42	03697463	1	Spacer					
43	03697471	1	Washer					
44	03697208	1	Capscrew					
45	03697430	1	Collar					
46	03697679	1	Pinion					

REGULATION

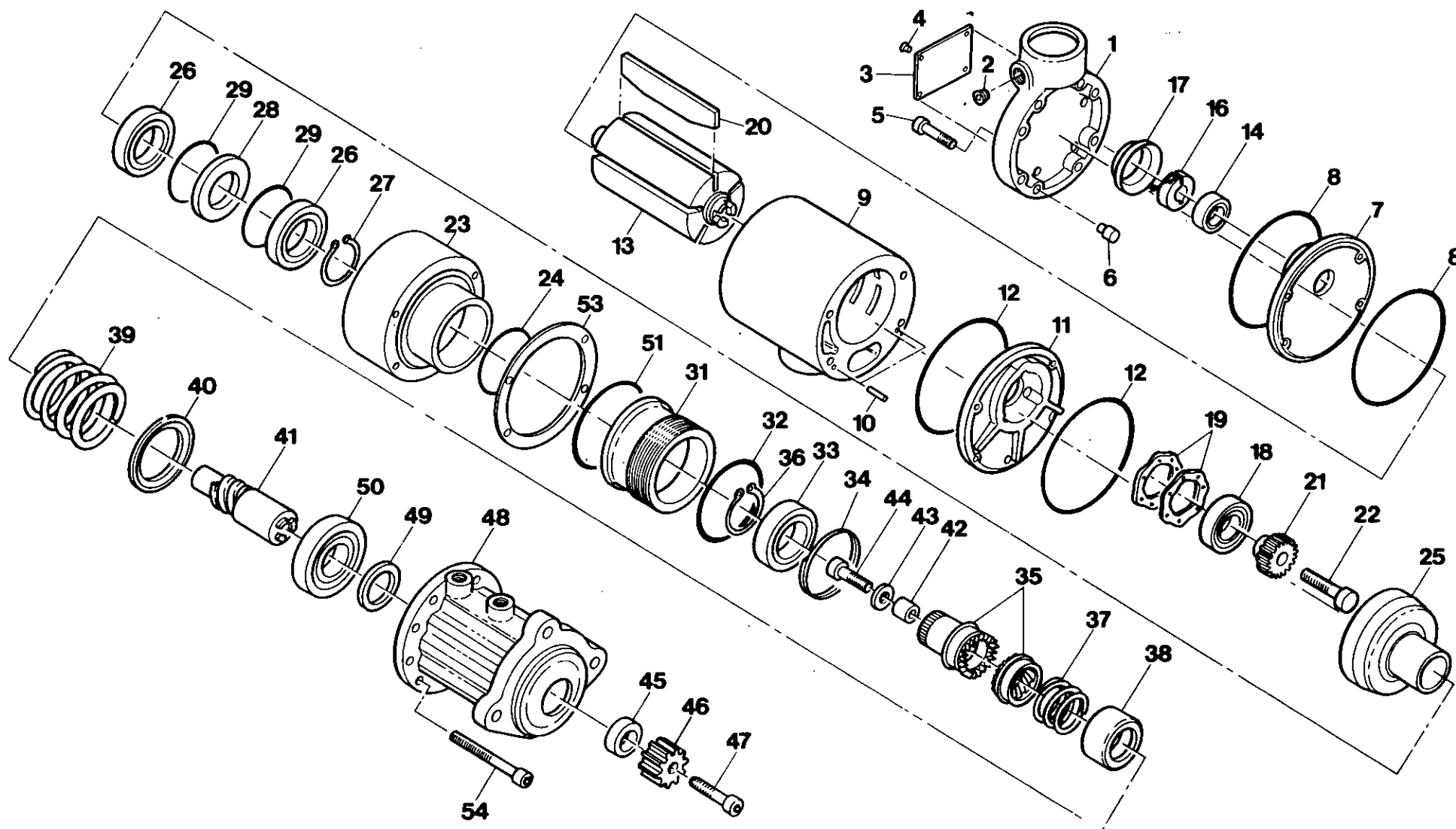
REGULATION

REGELUNG

REGOLAZIONE

REGULACION

جهاز التنظيم

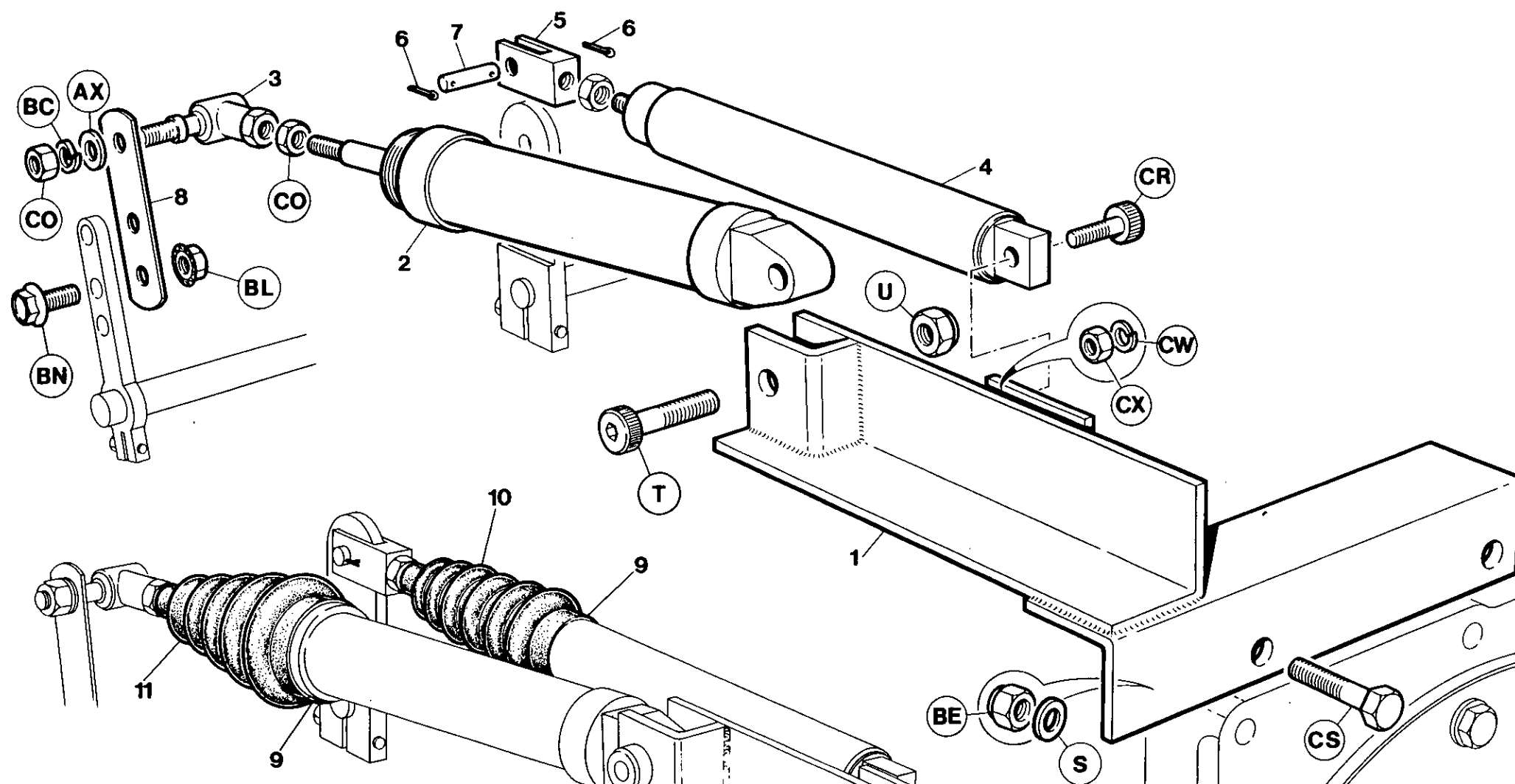


7.4.18

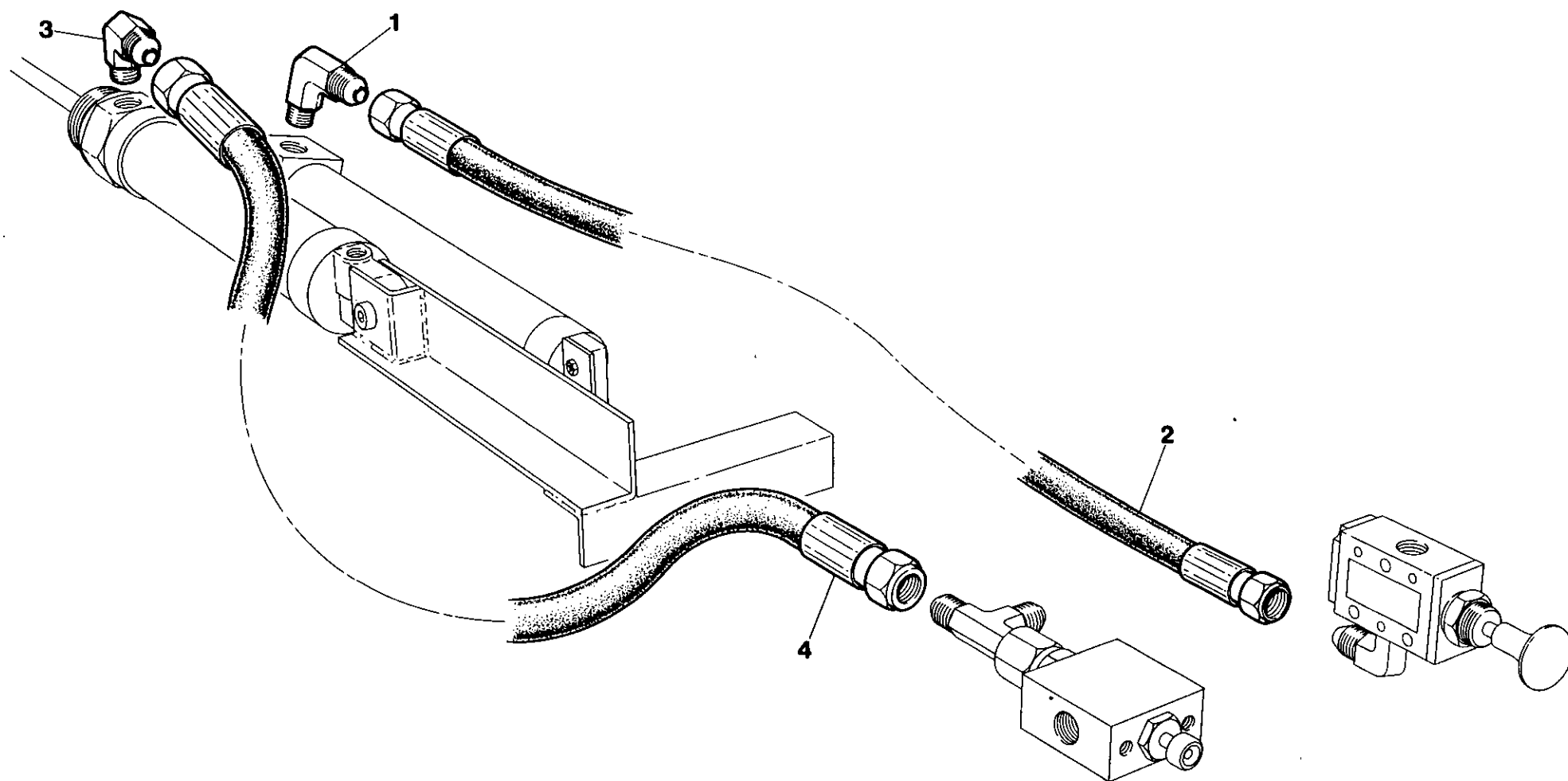
INGERSOLL-RAND

Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
47	03697323	1	Screw					
48	03698529	1	Kit					
49	03697364	1	Seal					
50	03697273	1	Bearing					
*	03698396	1	O-Ring					
*	03698370	1	Gasket					
54	03697331	4	Capscrew					

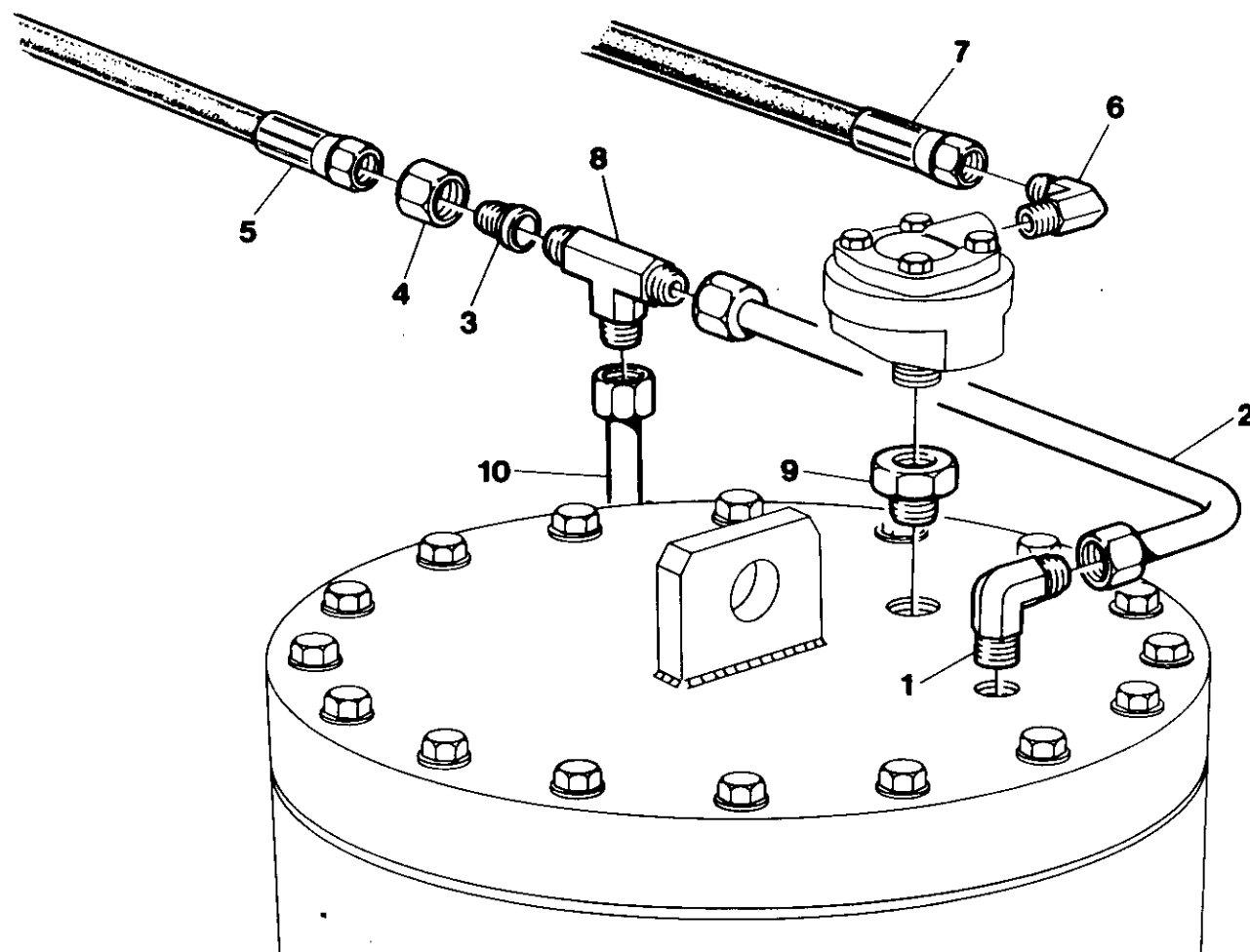
* Not illustrated



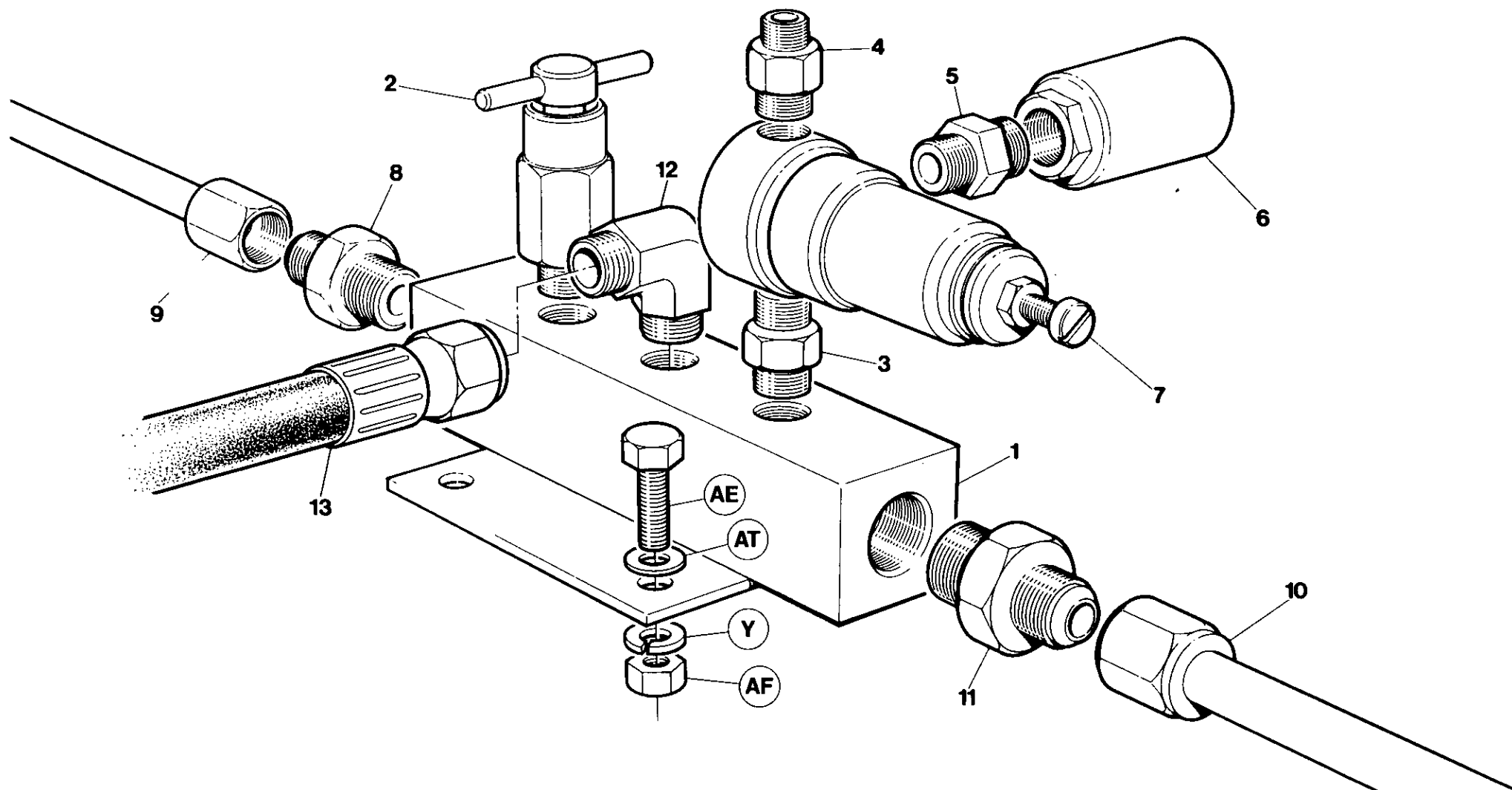
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92517721	1	Bracket					
2	92071299	1	Cylinder					
3	92169630	1	Ball Joint					
(4-5)	92079573	1	Cylinder Assy					
4	92036540	1	Cylinder					
5	92036532	1	Clevis					
6	95018966	2	Pin					
7	92070044	1	Pin					
8	92517911	1	Lever					
9	92281427	4	Tye Rap					
10	92677327	1	Bellows					
11		1	Bellow					



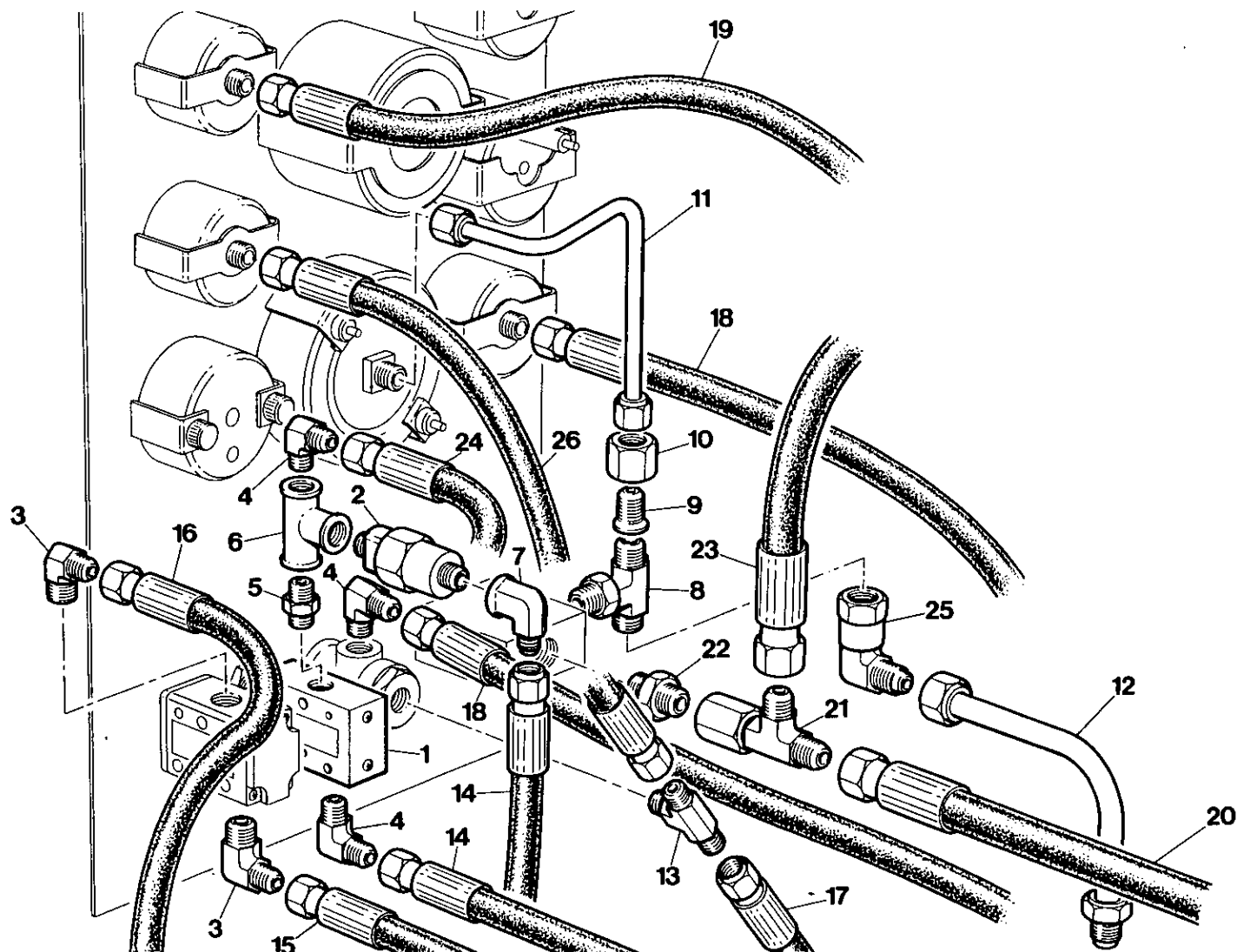
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92441294	1	Elbow					
2	92520394	1	Hose					
3	92441294	1	Elbow					
4	92520386	1	Hose					



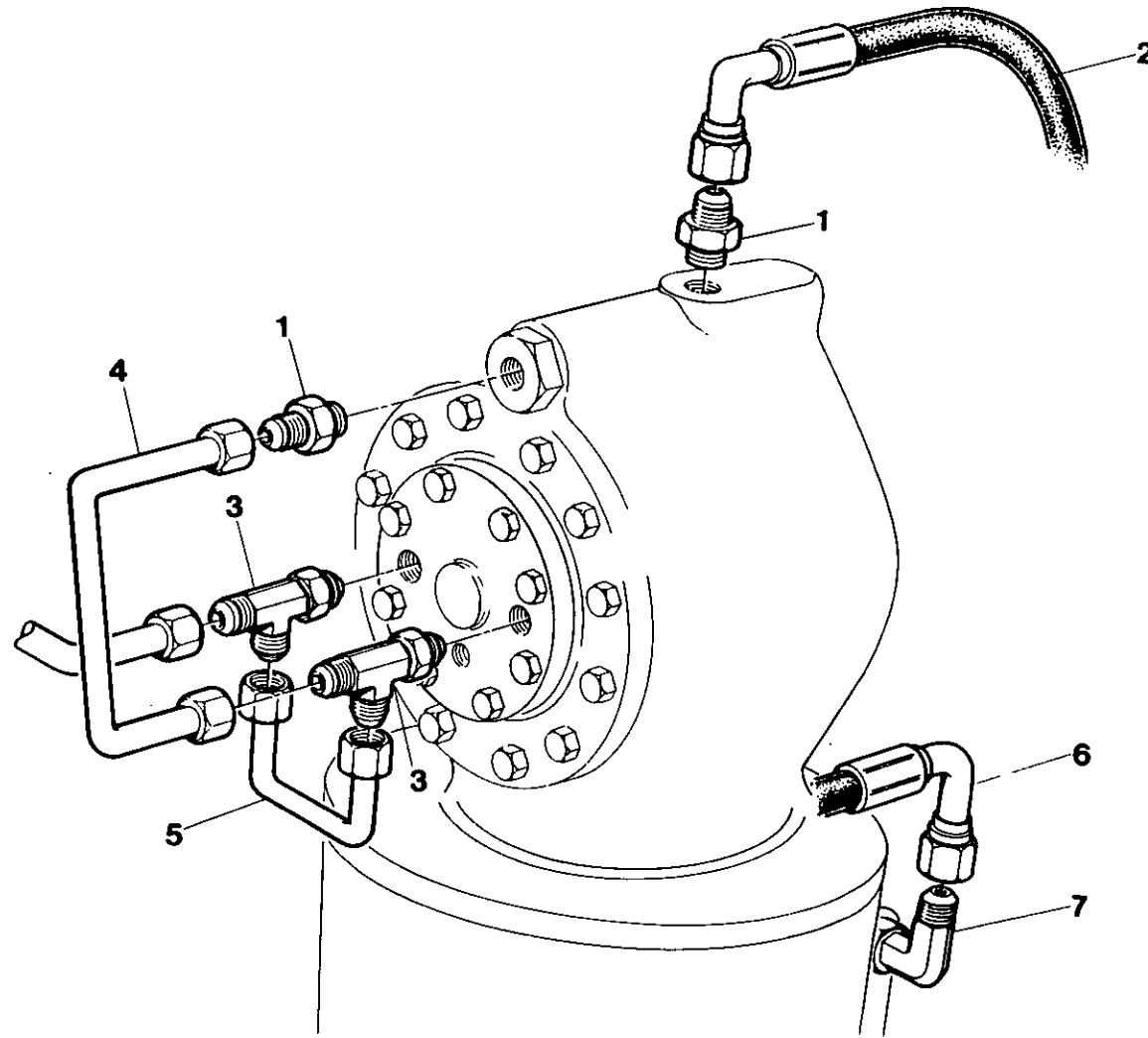
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92058064	1	Elbow					
2	92058072	1	Tube					
3	35296227	1	Reducer					
4	35296219	1	Nut					
5	92049097	1	Hose					
6	92441294	1	Elbow					
7	92079474	1	Hose					
8	92083245	1	Tee					
9	92351170	1	Reducing Bush					
10	92058080	1	Tube					



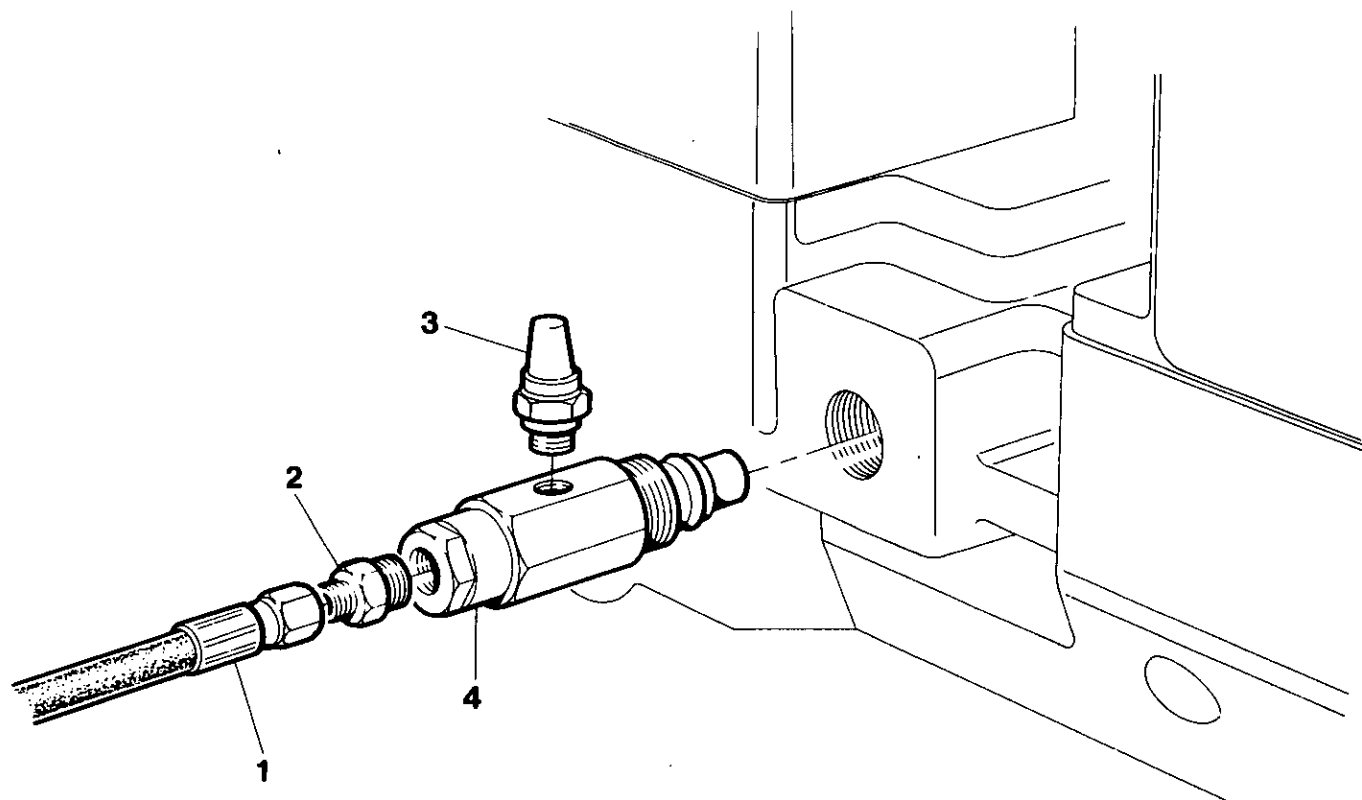
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92058718	1	Manifold					
2	92043017	1	Valve					
3	92005701	1	Nipple					
4	92478387	1	Connector					
5	92513175	1	Orifice					
6	92513183	1	Silencer					
7	35359090	1	Regulator Valve					
8	92042936	1	Connector					
9	92058106	1	Tube					
10	92058080	1	Tube					
11	92395466	1	Adaptor					



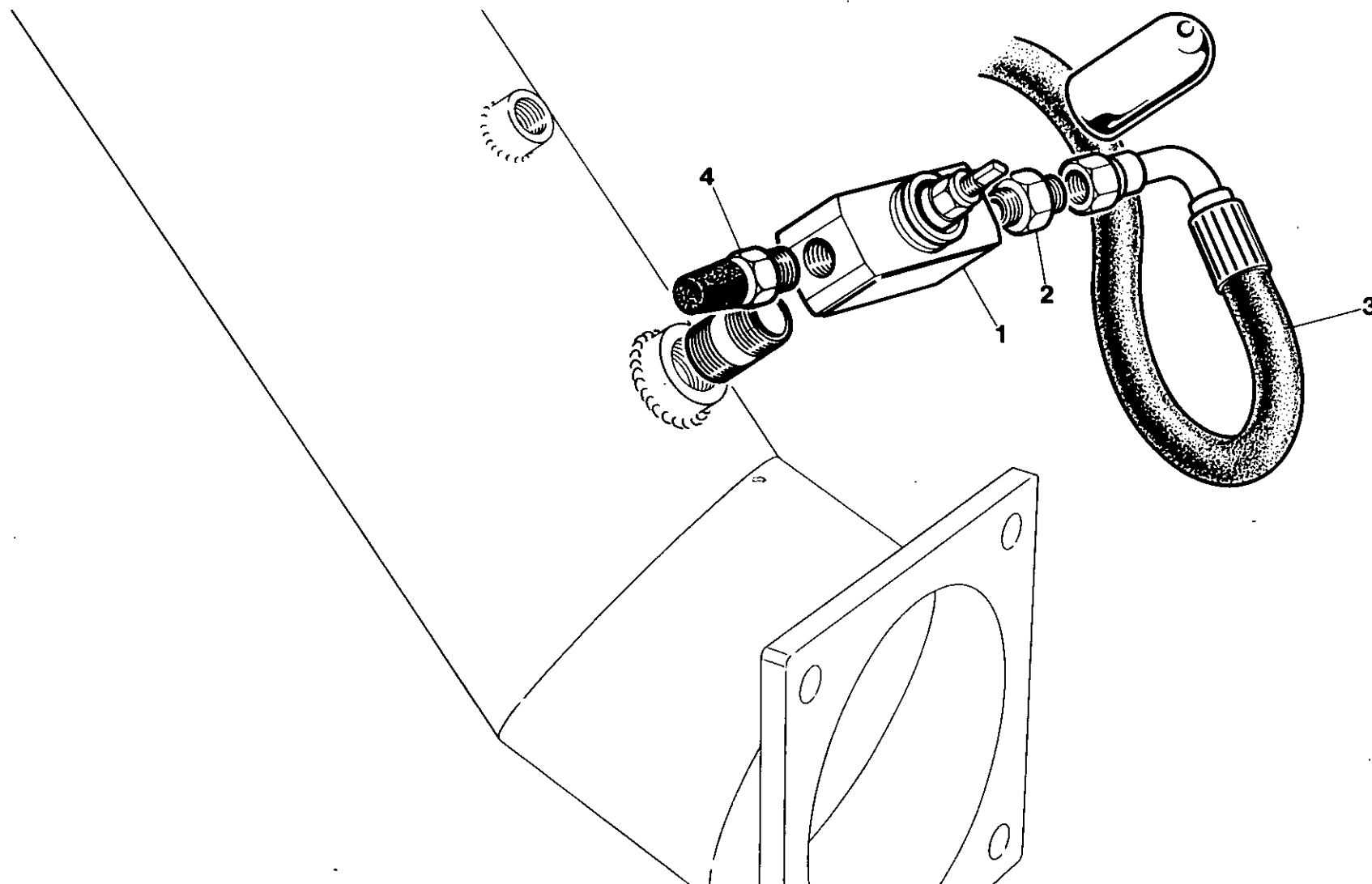
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92657667	1	Valve					
2	92547777	1	Valve					
3	92395458	2	Elbow					
4	92395433	3	Elbow					
5	92354521	1	Nipple					
6	92258714	1	Tee					
7	35301225	1	Elbow					
8	35279843	1	Tee					
9	92394295	1	Reducer					
10	92394352	1	Nut					
11	92058767	1	Tube					
12	92479674	1	Pipe					
13	92040799	1	Tee					
14	92100924	2	Hose					
15	92520428	1	Hose					
16	92520394	1	Hose					
17	92119684	1	Hose					
18	92547652	2	Hose					
19	92547645	1	Hose					
20	92649097	1	Hose					
21	35283084	1	Tee					
22	35283076	1	Connector					
23	92520378	1	Hose					
24	92100924	1	Hose					
25	35283068	1	Elbow					
26	92100924	1	Hose					



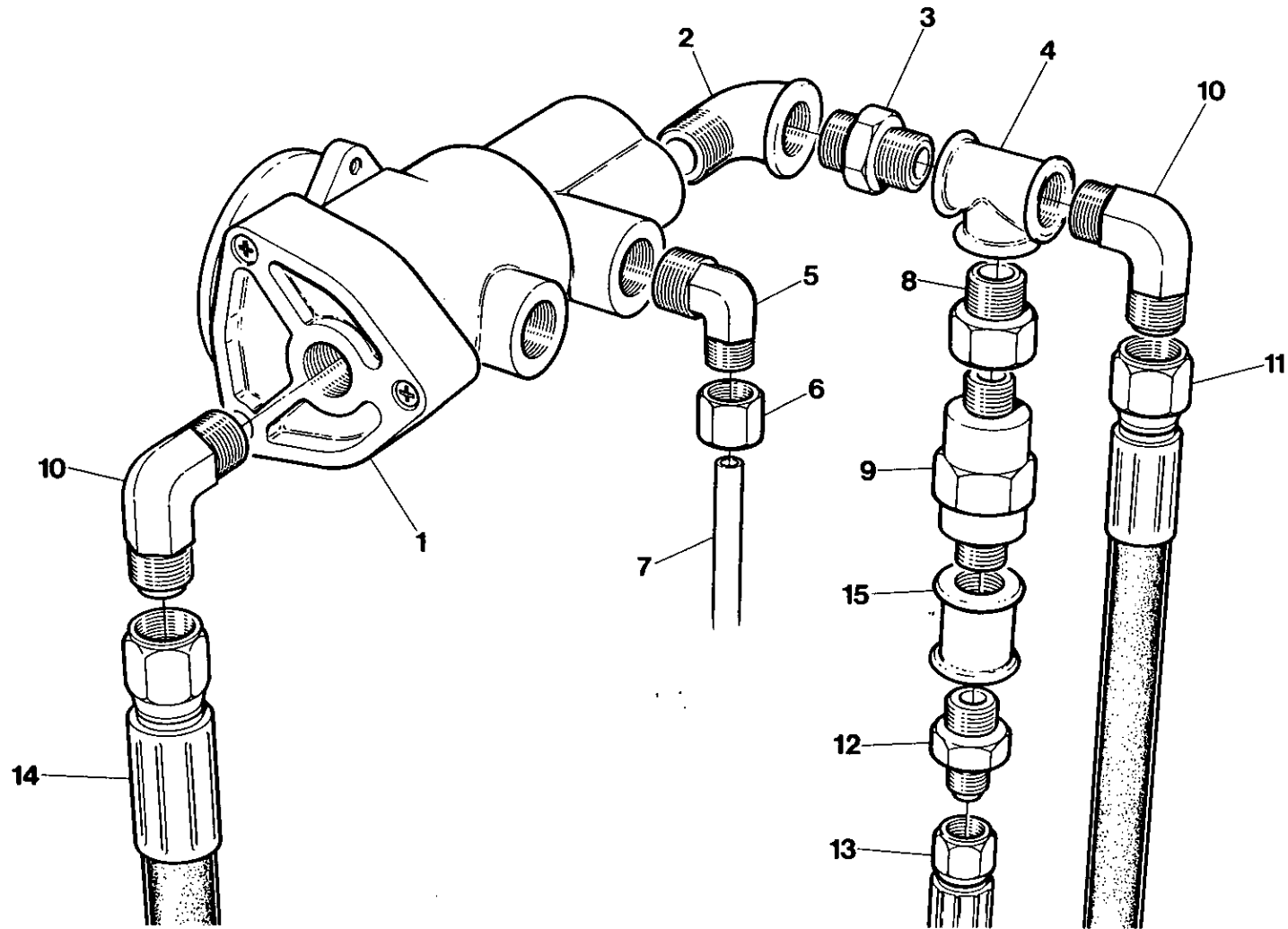
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	35283076	1	Connector					
2	92049097	1	Hose					
3	35279850	2	Tee					
4	92058163	1	Tube					
5	92058155	1	Tube					
6	92079474	1	Hose					
7	35279827	1	Elbow					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92547652	1	Hose					
2	92478569	1	Adaptor					
3	92089556	1	Silencer					
4	92546480	1	Water Temp.Probe					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92546472	1	Probe					
2	92478569	1	Connector					
3	92658004	1	Hose					
4	92089556	1	Silencer					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92657303	7	Indicator					
2	92354505	1	Elbow					
3	92005701	1	Connector					
4	92354729	1	Tee					
5	92067933	1	Elbow					
6	92067933	1	Nut					
7	92490358	0.5m	Tube					
8	92354364	1	Reducing Bush					
9	92547777	1	Valve					
10	92395458	6	Elbow					
11	92547652	1	Hose					
12	92479674	1	Connector					
13	92100924	1	Hose					
14	92547652	1	Hose					
15	92258110	1	Socket					

REGULATION

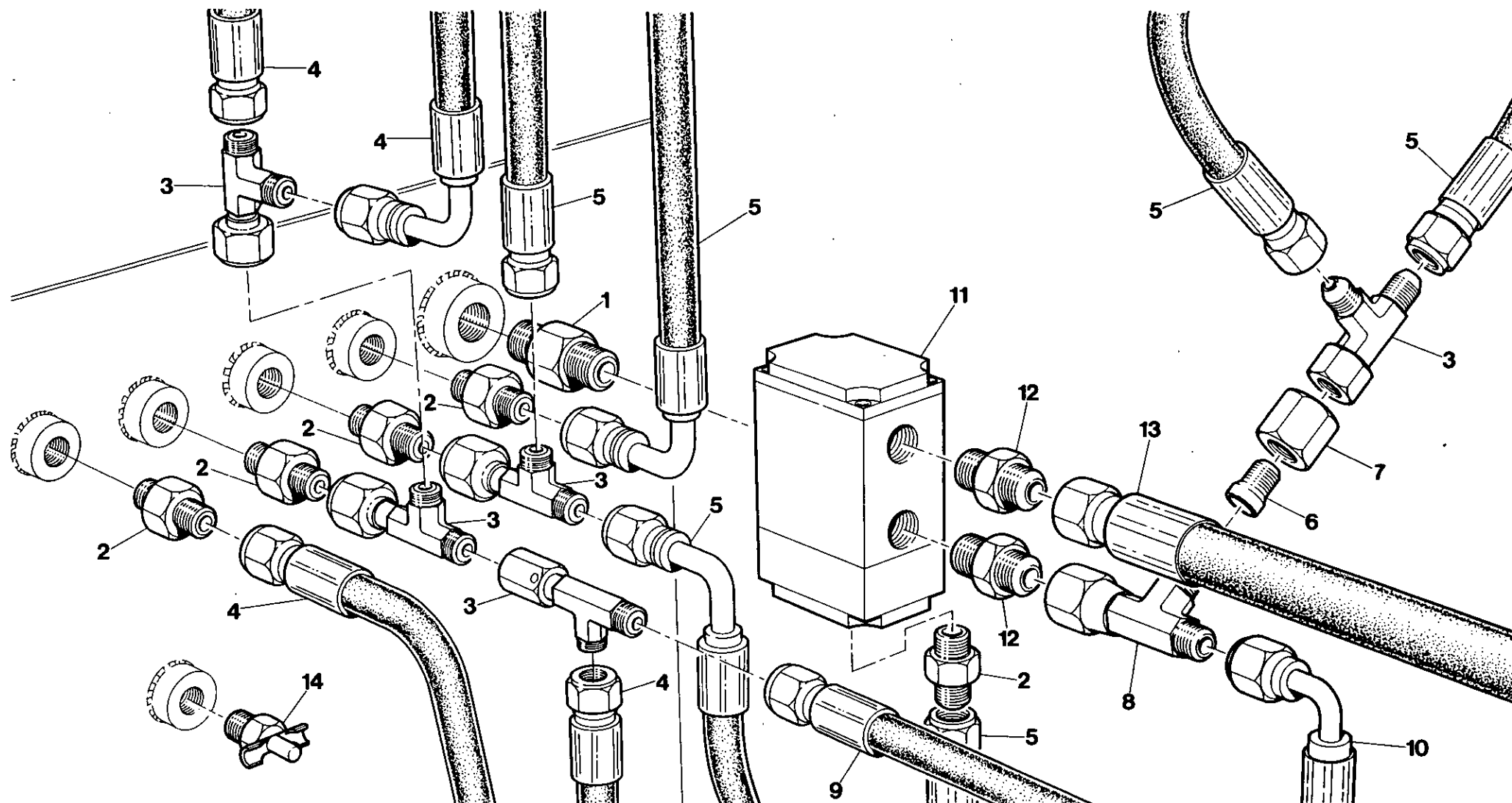
REGULATION

REGELUNG

REGOLAZIONE

REGULACION

جهاز التنظيم :



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92005701	1	Connector					
2	92479674	5	Connector					
3	92100957	5	Tee					
4	92547652	4	Hose					
5	92100924	5	Hose					
6	92394295	1	Recucer					
7	92394352	1	Nut					
8	35283084	1	Tee					
9	92547637	1	Hose					
10	92658012	1	Hose					
11	92679208	1	Valve					
12	92478387	2	Connector					
13	92079672	1	Hose					
14	92258706	1	Cock					

REGULATION

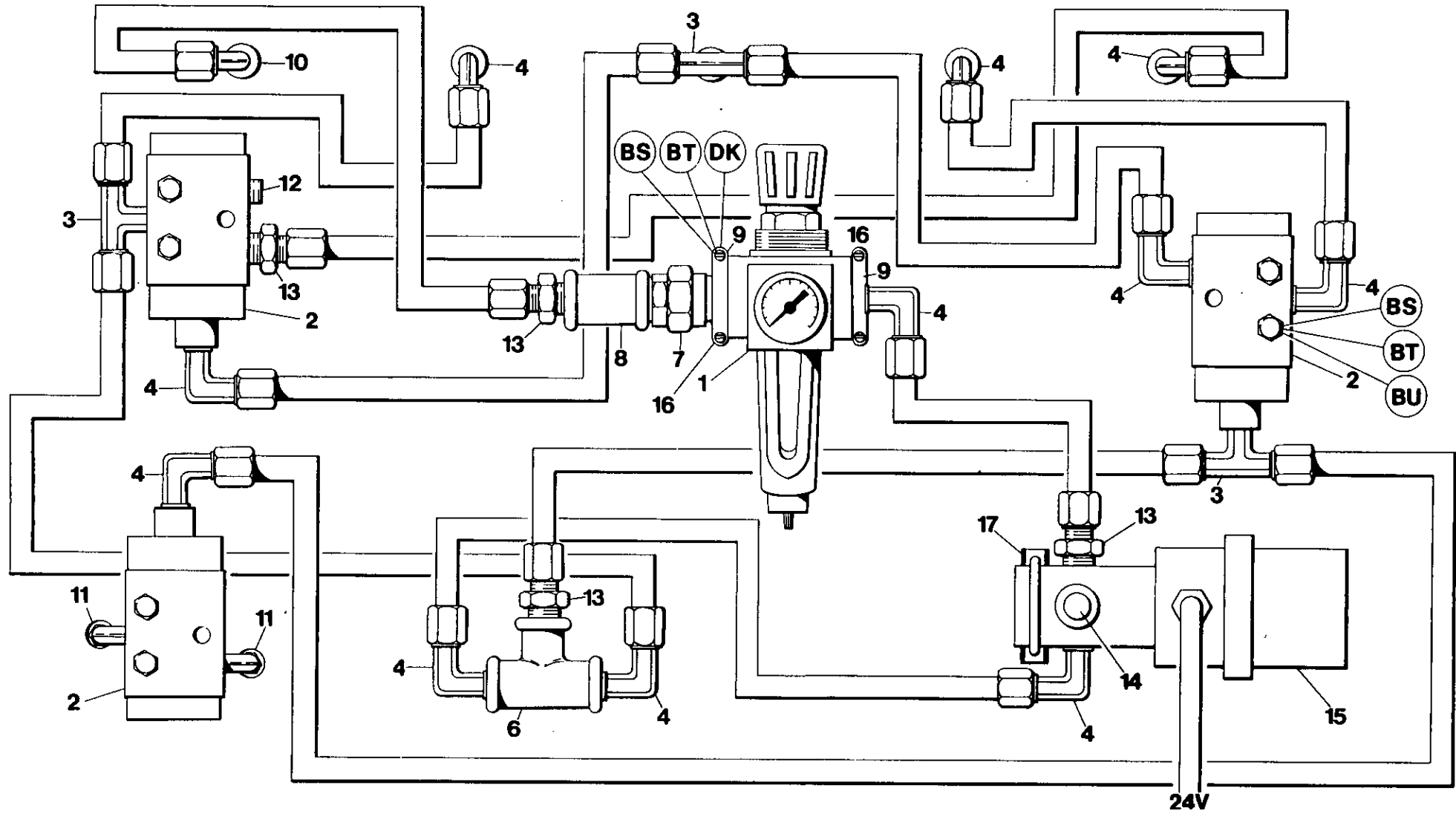
REGULATION

REGELUNG

REGOLAZIONE

REGULACION

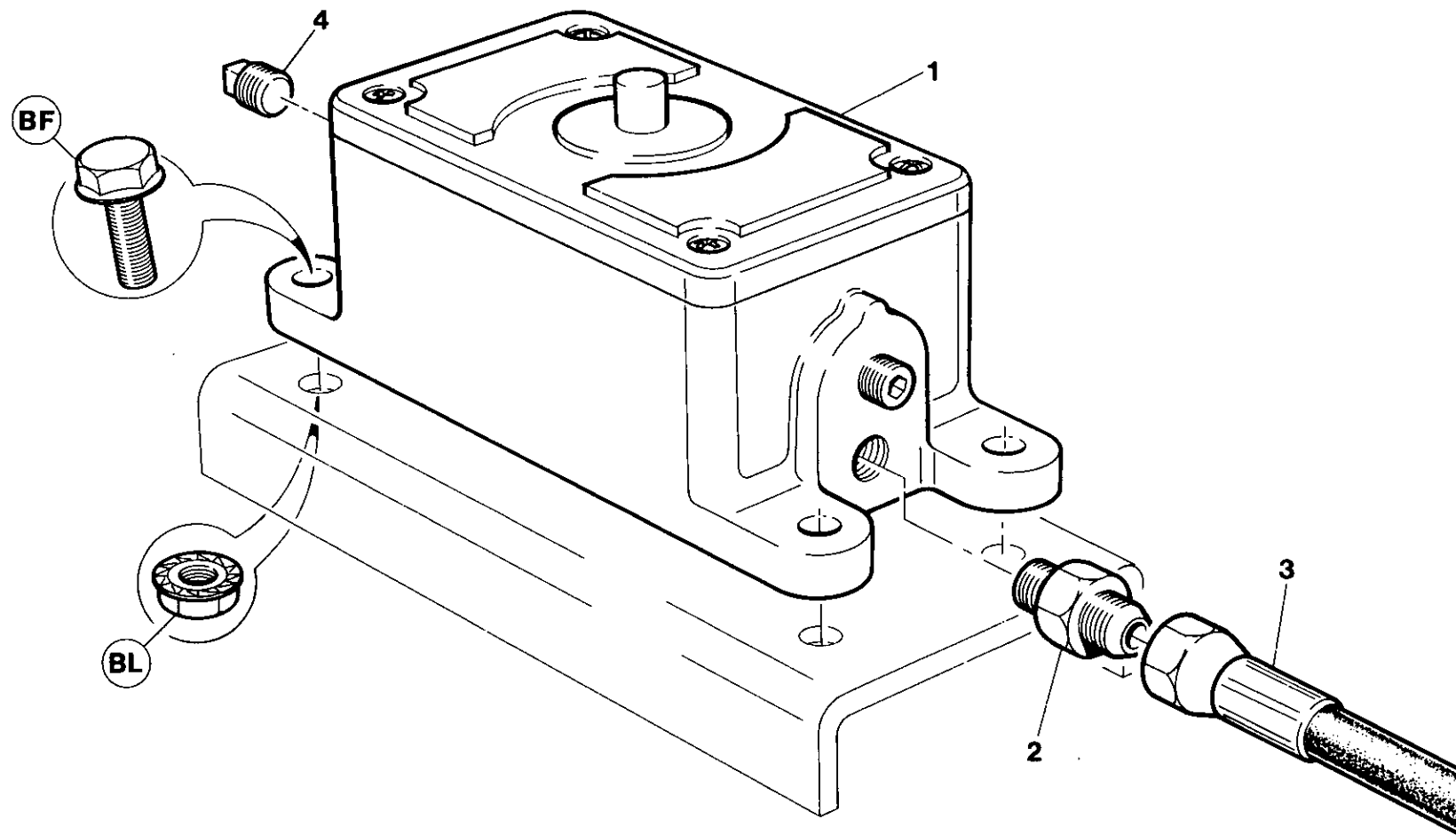
جهاز التنظيم :



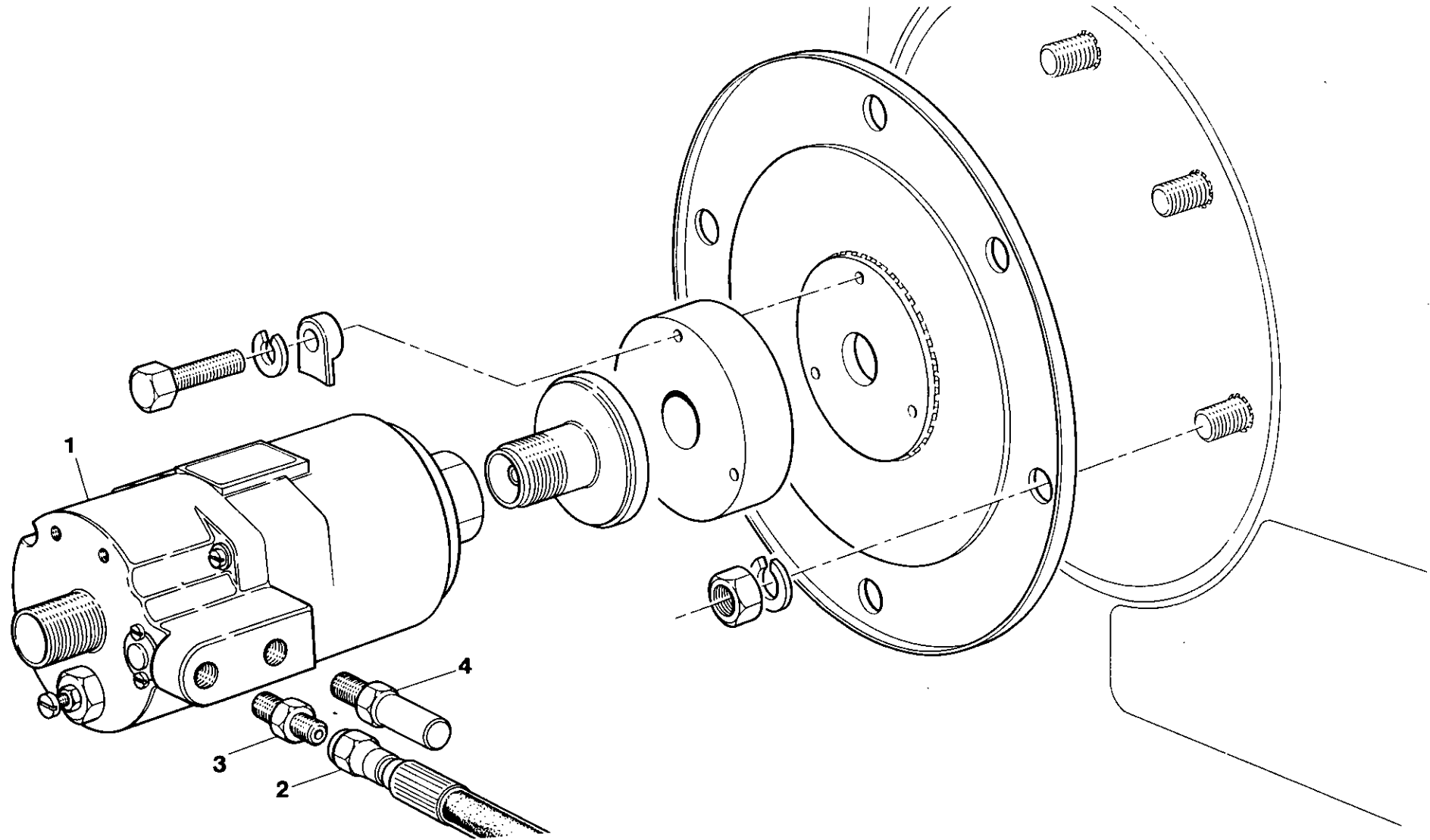
7.4.40

INGERSOLL-RAND

Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92547769	1	Filter/Regulator					
2	92547736	3	Pilot Valve					
3	92029644	3	Tee					
4	92067958	12	Elbow					
5	92478569	1	Connector					
6	92258714	1	Tee					
7	92547777	1	Check Valve					
8	92258110	1	Socket					
9	92661768	2	Bracket					
10	92067933	1	Elbow					
11	92395433	2	Elbow					
12	92354653	1	Plug					
13	92029651	3	Connector					
14	92549278	1	Silencer					
15	92677475	1	Yellow Alert Harness					
16	92661776	2	Wall Mount Kit					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92546761	1	Vibration Valve					
2	92478569	1	Connector					
3	92547652	1	Hose					
4	92354661	1	Plug					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92546753	1	Overspeed Valve					
2	92520428	1	Hose					
3	92478569	1	Connector					
4	92089556	1	Silencer					

REGULATION

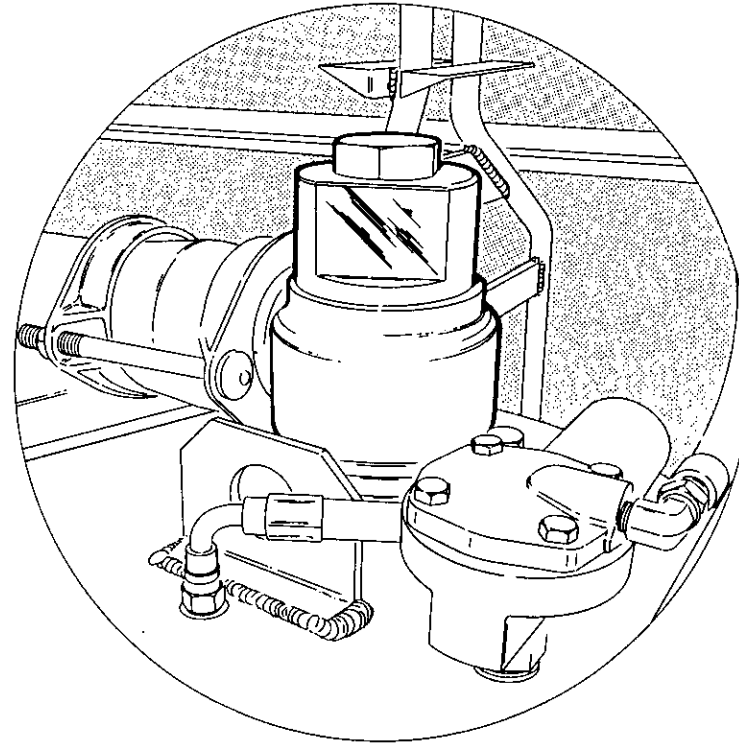
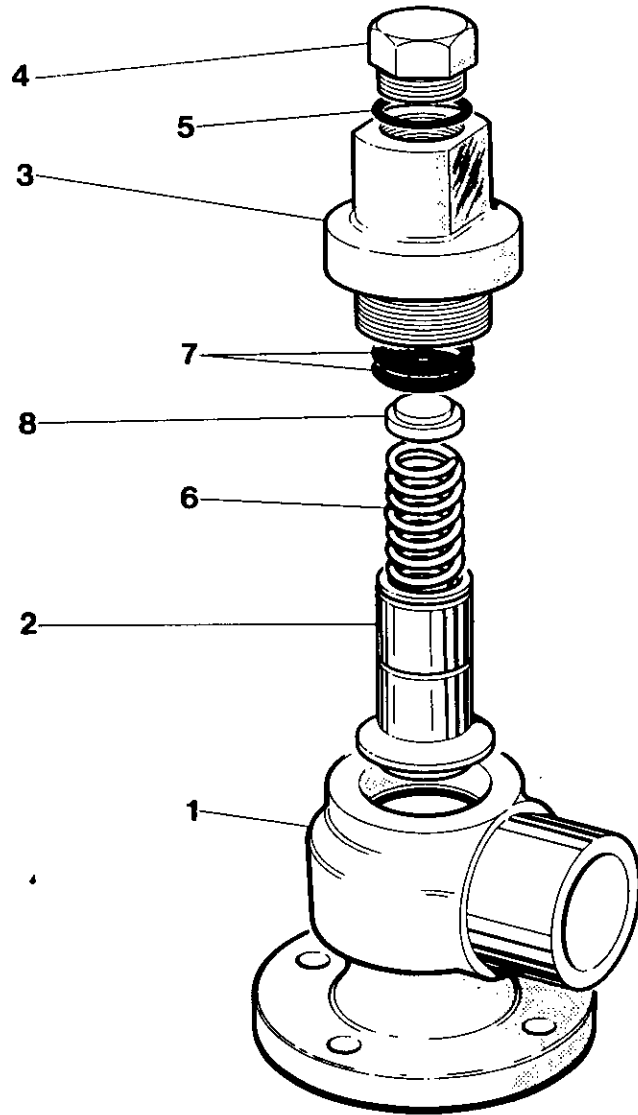
REGULATION

REGELUNG

REGOLAZIONE

REGULACION

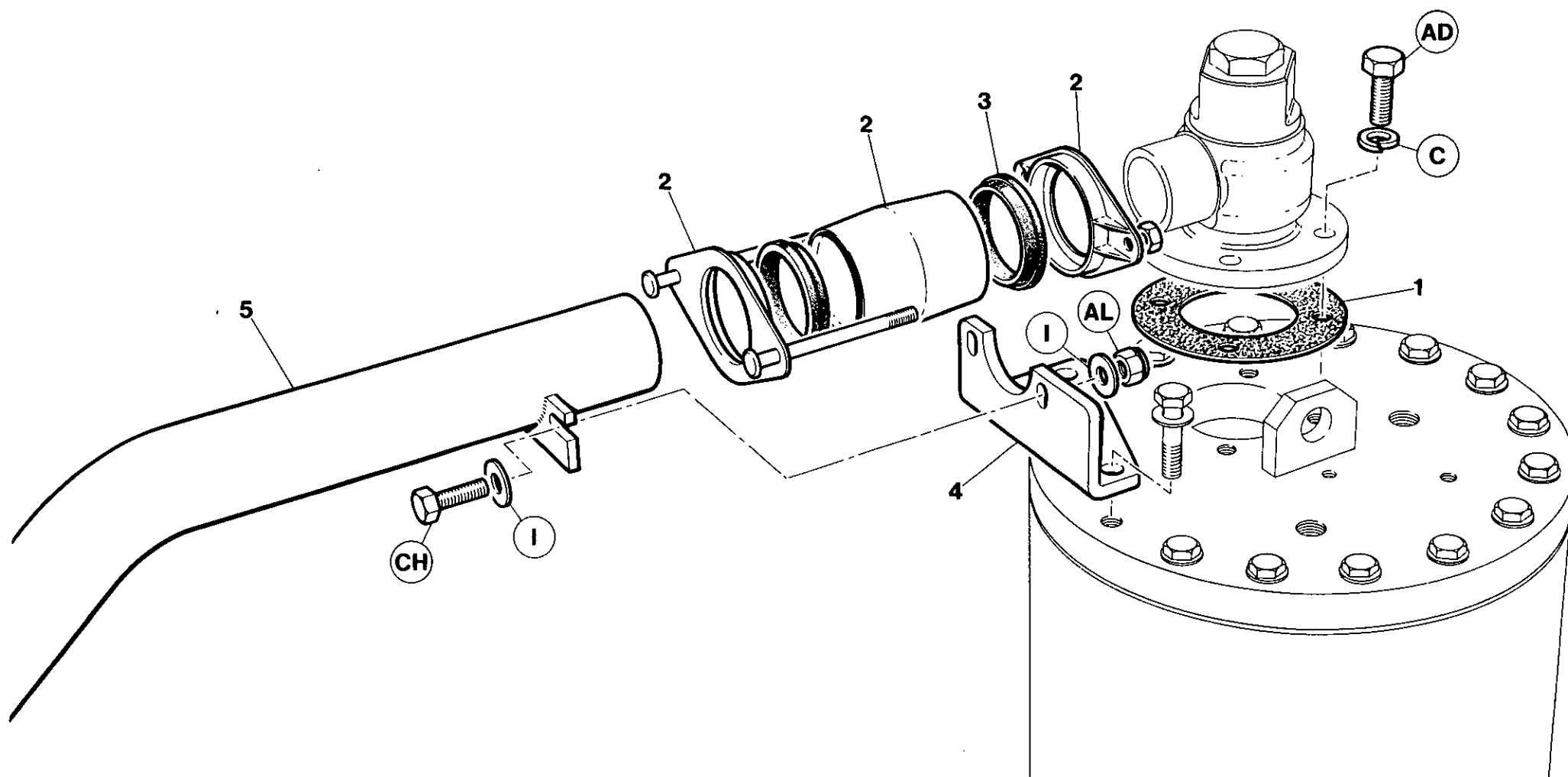
جهاز التنظيم :



7.4.46

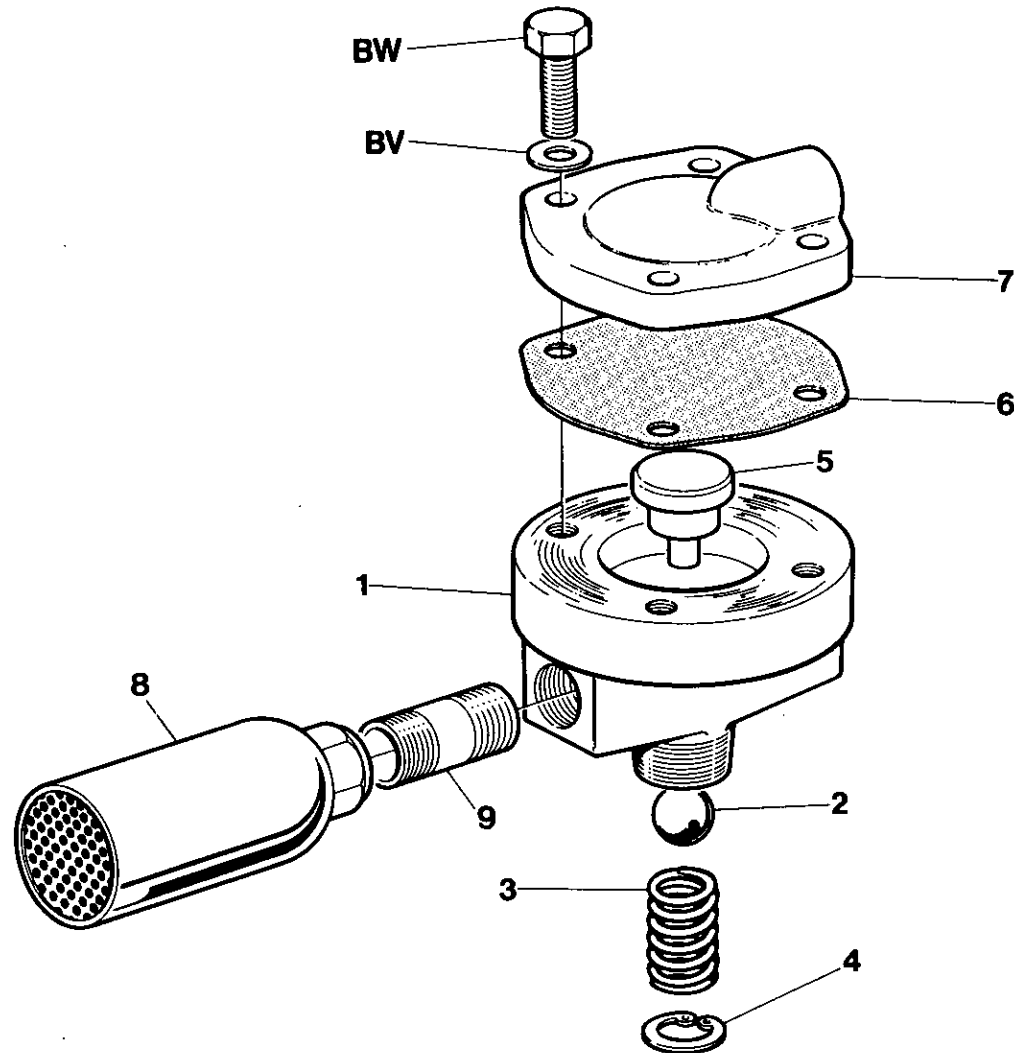
INGERSOLL-RAND

Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
(1-7)	92062041	1	Minimum Pressure Valve Assy					
1	92061936	1	Body					
2	92044098	1	Piston					
3	92061944	1	Housing					
4	35579630	1	Plug					
5	35279942	1	O-Ring					
6	35318161	1	Spring					
7	95823688	2	O-Ring					
8	92032648	1	Spacer					

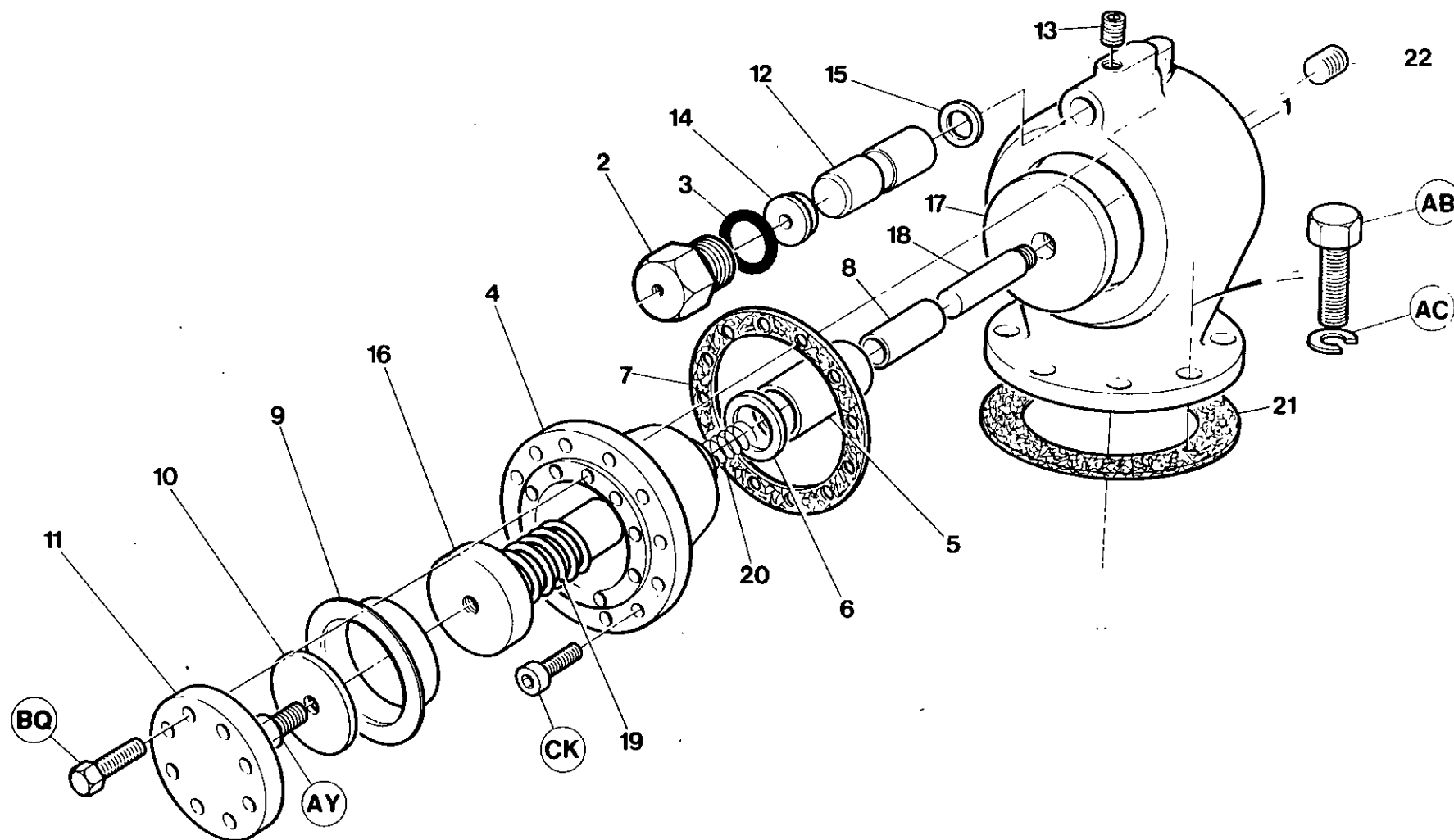


Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	35575471	1	Gasket					
2	92039056	1	Coupling					
3	92039049	2	Seal					
4	92048990	1	Bracket					
5	92064427	1	Pipe					

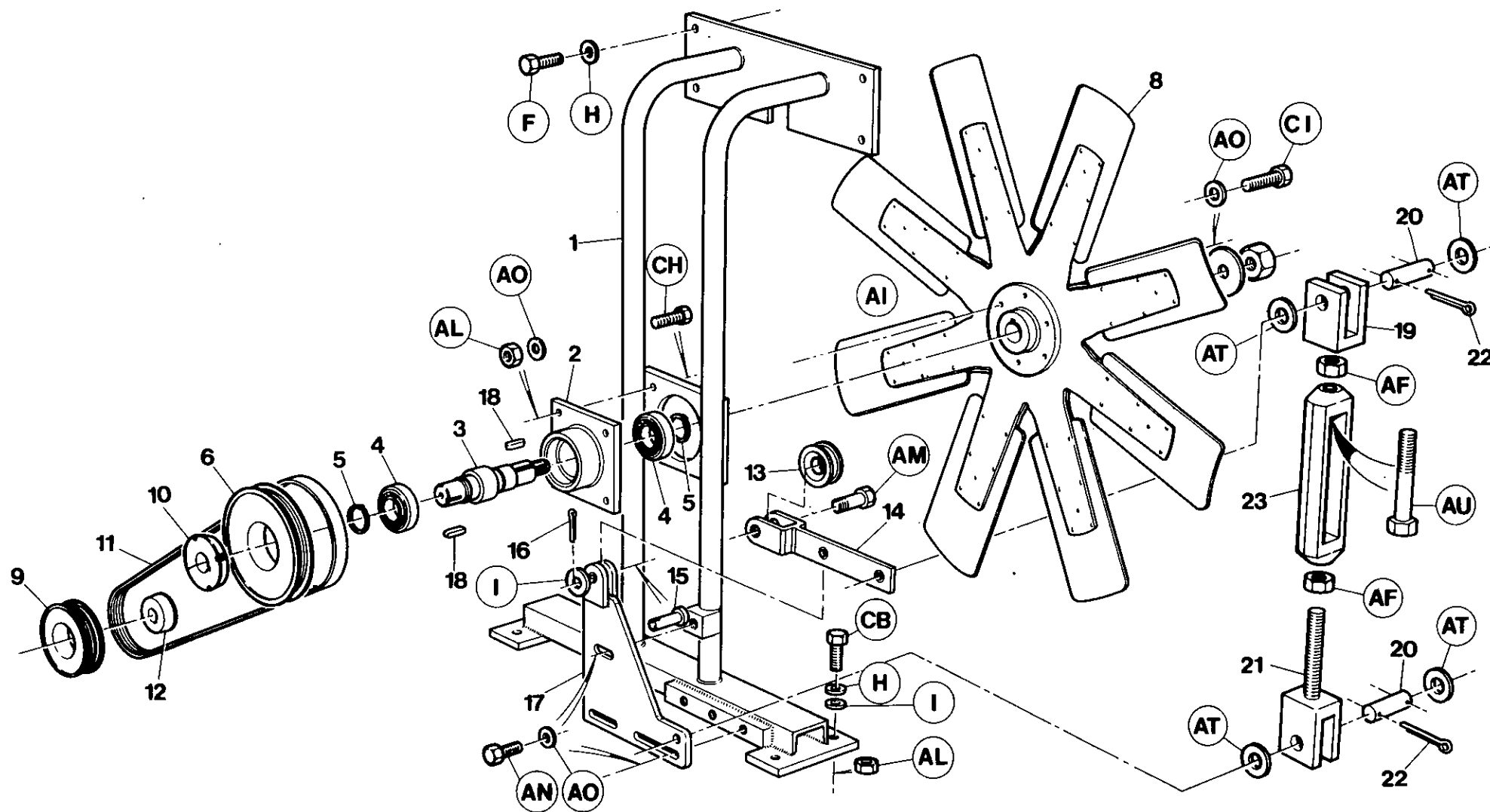
Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
1	92544253	1	Valve					
2	92540772	1	Outlet					
3	92039239	2	Stud					
4	92064427	1	Pipe					
5	92039056	1	Coupling					
6	92039049	2	Seal					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
(1-7)	92035898	1	Auto Blowdown Valve Assy					
1	92042951	1	Body					
2	92251982	1	Ball					
3	30865315	1	Spring					
4	92257641	1	Retaining Ring					
5	35201565	1	Piston					
6	35192129	1	Diaphragm					
7	35192145	1	Cover					
8	92513183	1	Silencer					
9	92354547	1	Nipple					



Item	C.P.N.	Qty	REGULATION	REGULATION	REGELUNG	REGOLAZIONE	REGULACION	جهاز التنظيم :
(1-20)	35072222	1	Unloader Valve Assy					
1	36722452	1	Body					
2	35328236	1	Adaptor					
3	95765806	2	O-Ring					
4	36722460	1	Housing					
5	35328228	1	Bush					
6	35328244	1	Seal					
7	35328251	1	Gasket					
8	35328269	1	Bush					
9	35592534	1	Diaphragm					
10	35327204	1	Washer					
11	35591189	1	Cover					
12	35328210	1	Valve					
13	95263190	1	Plug					
14	35331578	1	Grommet					
15	35331586	1	Grommet					
16	35591163	1	Piston					
17	35591171	1	Inlet Valve					
18	35332006	1	Valve Stem					
19	35332683	1	Spring					
20	35332691	1	Spring					
21	95214524	1	Gasket					
22	92257401	1	Plug					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92065416	1	Support					
2	92065408	1	Housing					
3	92065374	1	Shaft					
4	92064559	2	Bearing					
5	35280353	2	Retaining Ring					
6	92035872	1	Pulley (154mm)					
7	92409671	1	Plate					
8	92517754	1	Fan					
9	92035880	1	Pulley (180mm)					
10	92065754	1	Bush					
11	92546936	1	Belt					
12	35325661	1	Bush					
13	92531490	1	Wheel					
14	92049899	1	Arm					
15	92049915	1	Pin					
16	92256759	1	Split Pin					
17	92049881	1	Support					
18	92168871	2	Key					
(19-23)	92038884	1	Turnbuckle Assy.					
19	92038652	1	Clevis					
20	92038918	2	Pin					
21	92038660	1	Clevis					
22	92256759	4	Pin					
23	92038678	1	Turnbuckle					

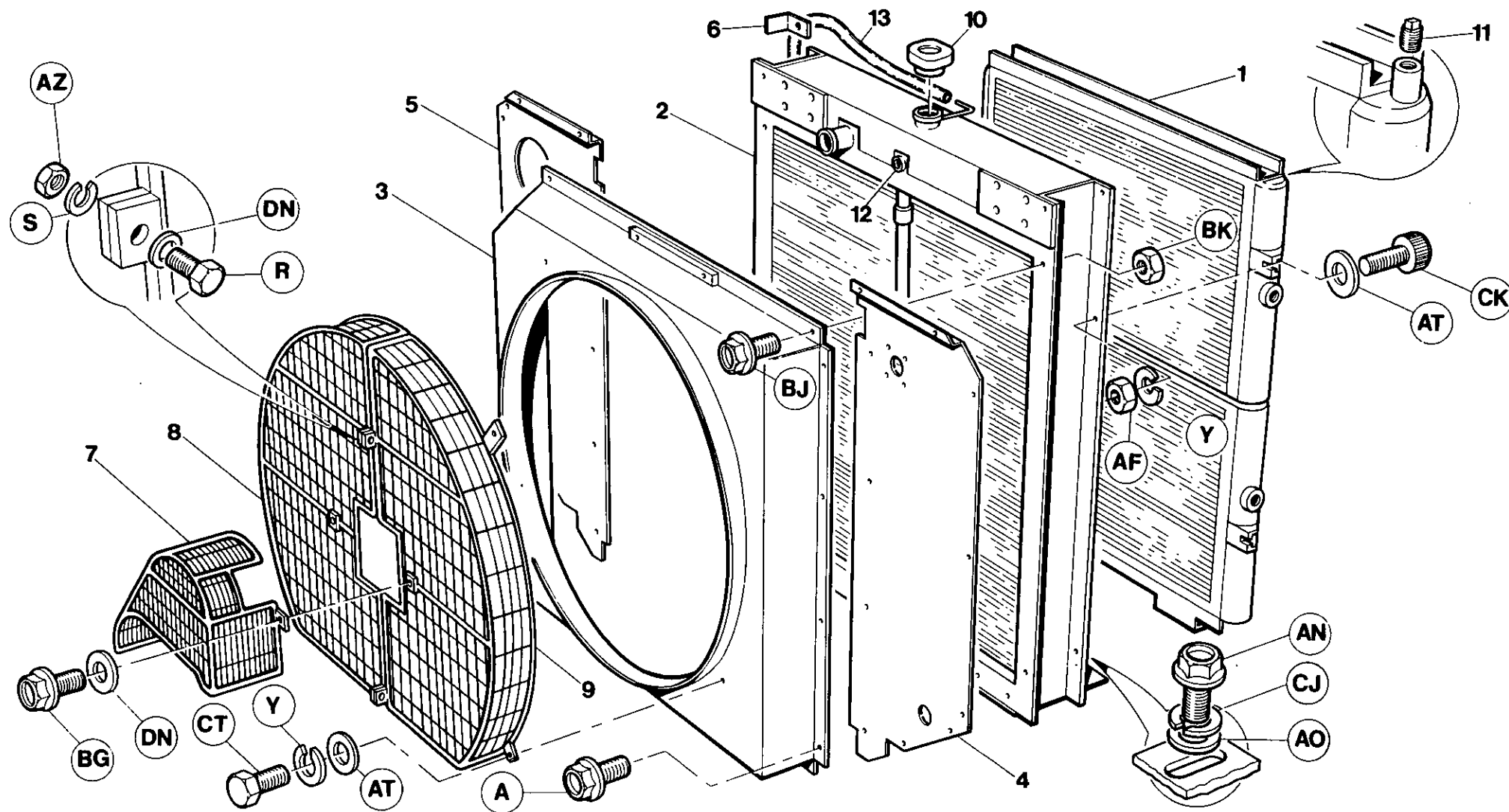
COOLING SYSTEM

SYSTÈME DE
REFROIDISSEMENT

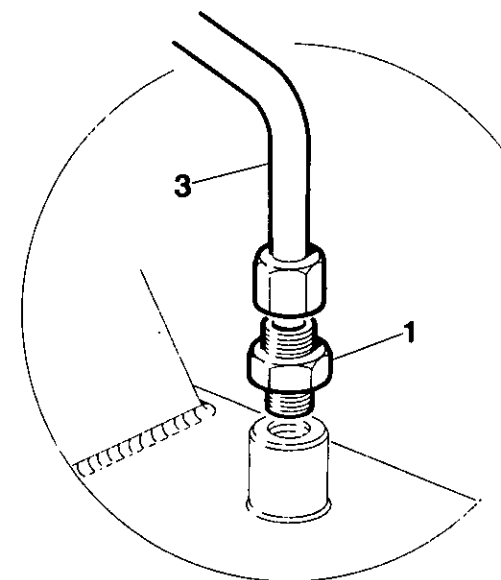
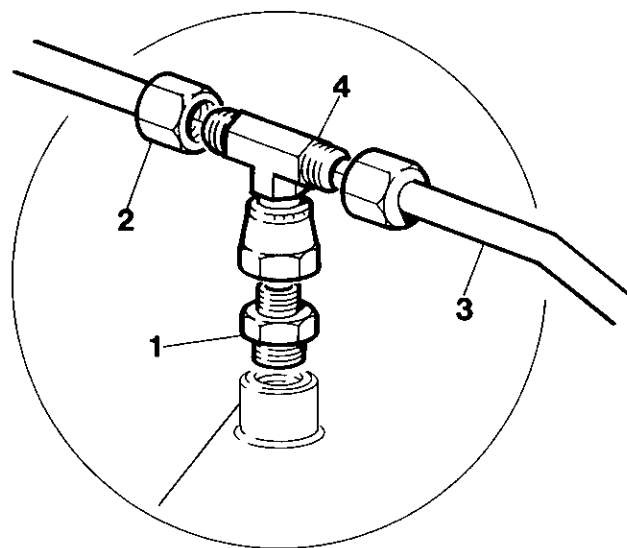
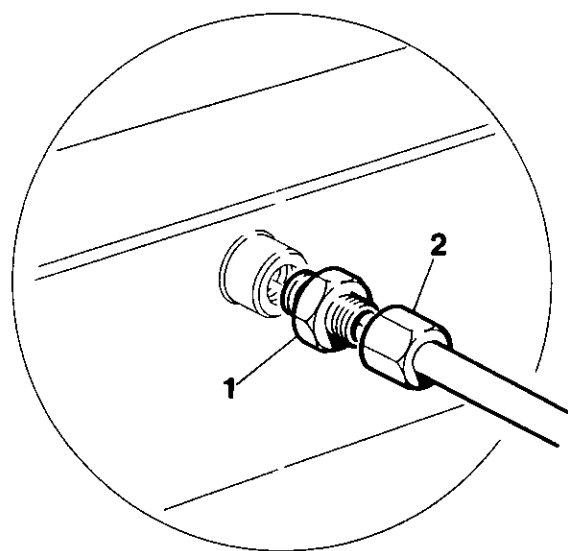
KÜHLSYSTEM

SISTEMA DE
RAFFREDDAMENTOSISTEMA DE
REFRIGERACION

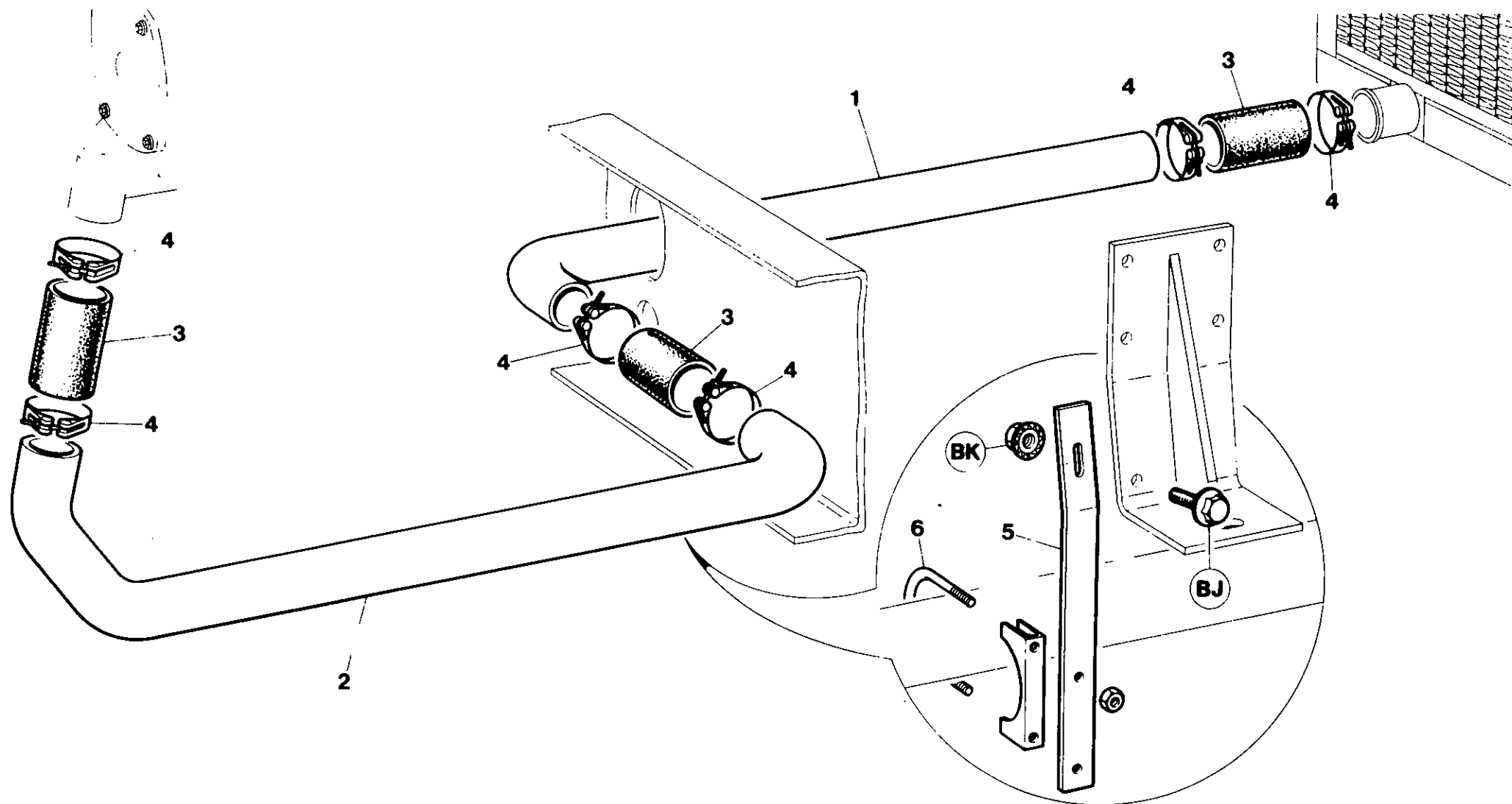
جهاز التبريد :



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92510148	1	Oil Cooler					
2	92510155	1	Radiator					
3	92510486	1	Shroud					
4	92036656	1	Baffle					
5	92544394	1	Baffle					
6	92517762	2	Clamp					
7	92049014	1	Guard					
(8-9)	92049006	1	Guard Assy					
8	92034495	1	Guard					
9	92034503	1	Guard					
10	92041664	1	Cap					
11	92354661	1	Plug					
12	92175405	1	Probe					
13	92111335	2m	Tube					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92478569	3	Connector					
2	92657345	1	Tube					
3	92657337	1	Tube					
4	92040799	1	Tee					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92517770	1	Pipe					
2	92517788	1	Pipe					
3	92040757	3	Hose					
4	92040765	6	Clamp					
5	92544626	1	Support					
6	92253079	1	Clamp					

COOLING SYSTEM

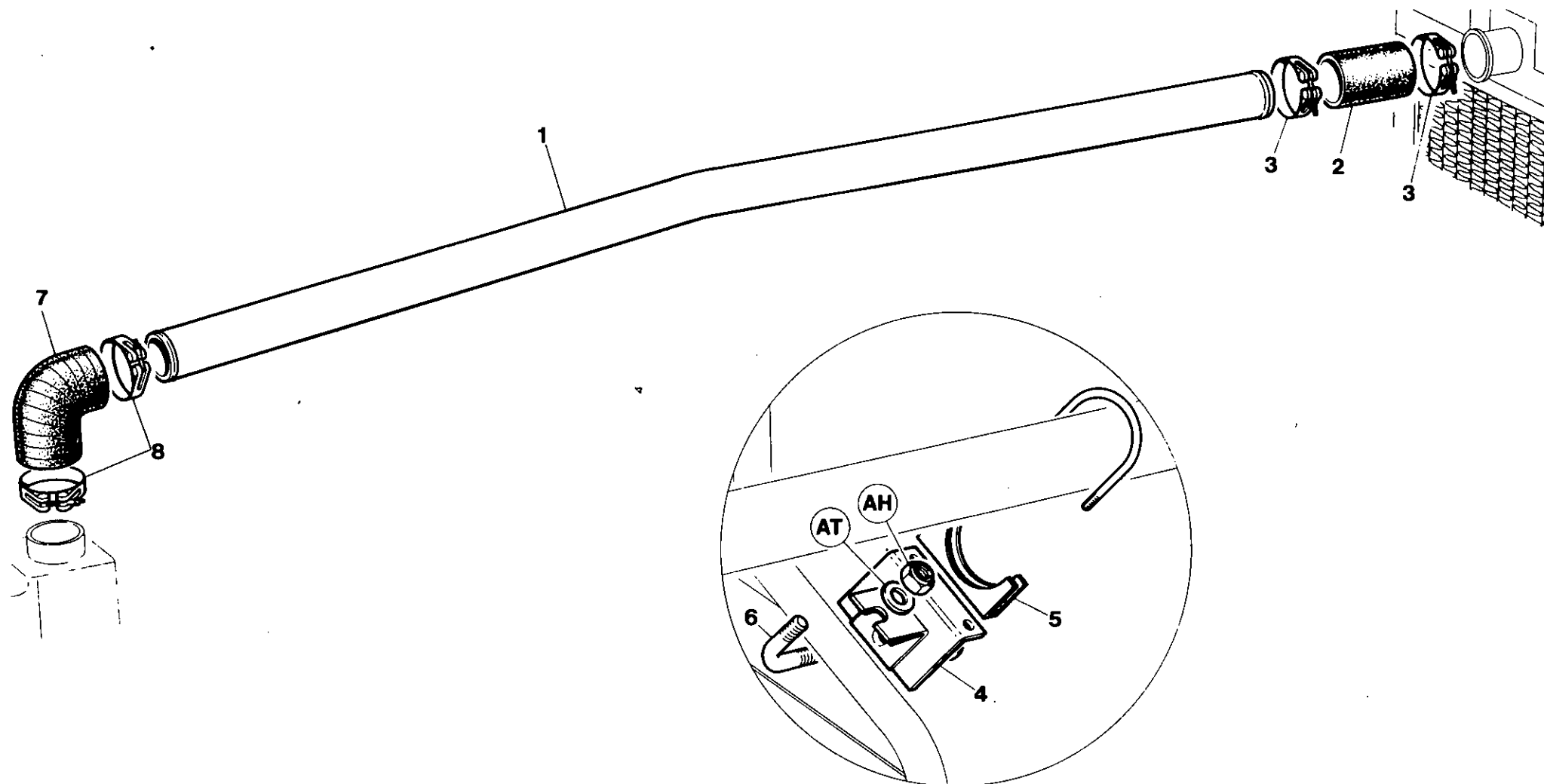
SYSTÈME DE
REFROIDISSEMENT

KÜHLSYSTEM

SISTEMA DE
RAFFREDDAMENTO

SISTEMA DE
REFRIGERACION

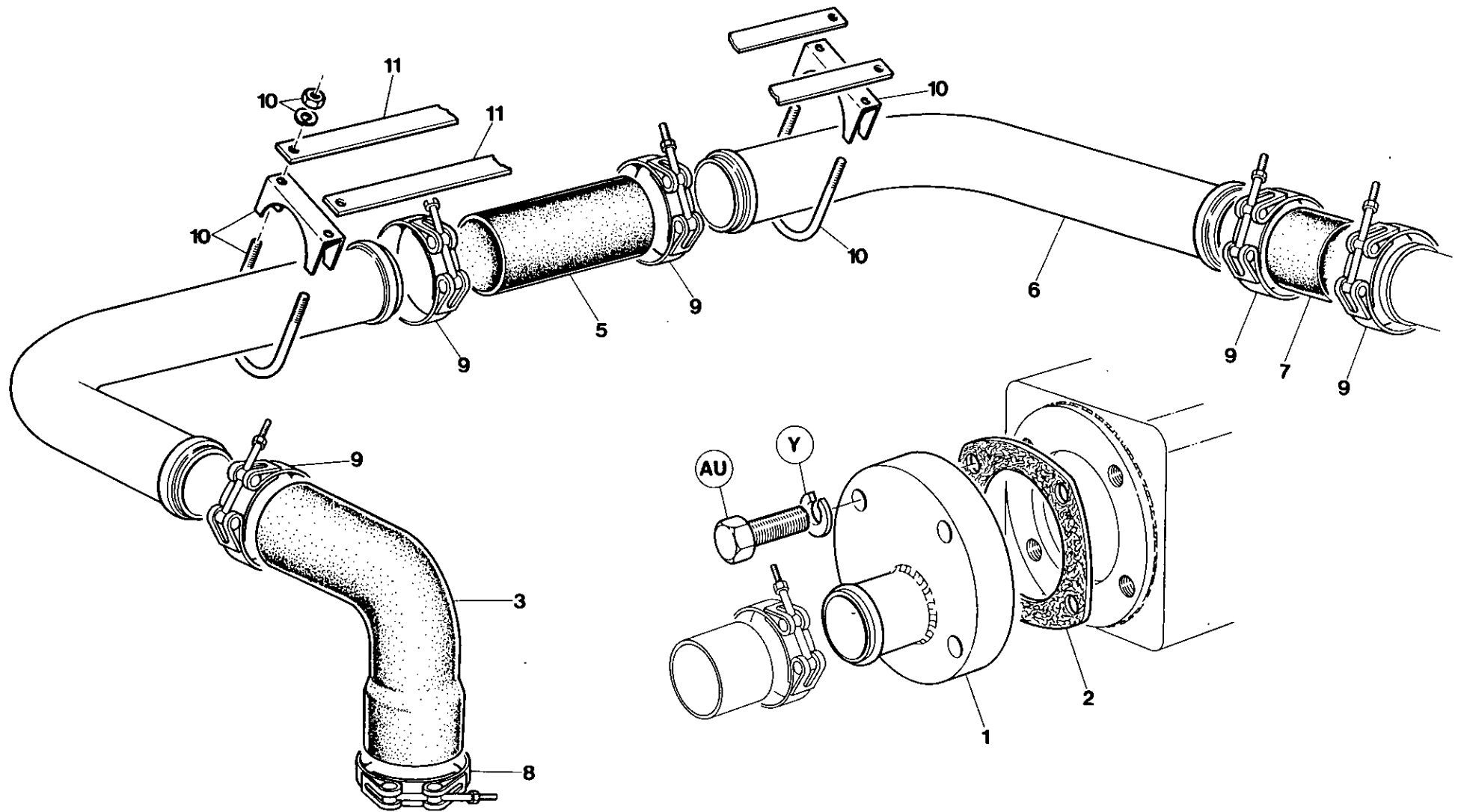
جهاز التبريد :



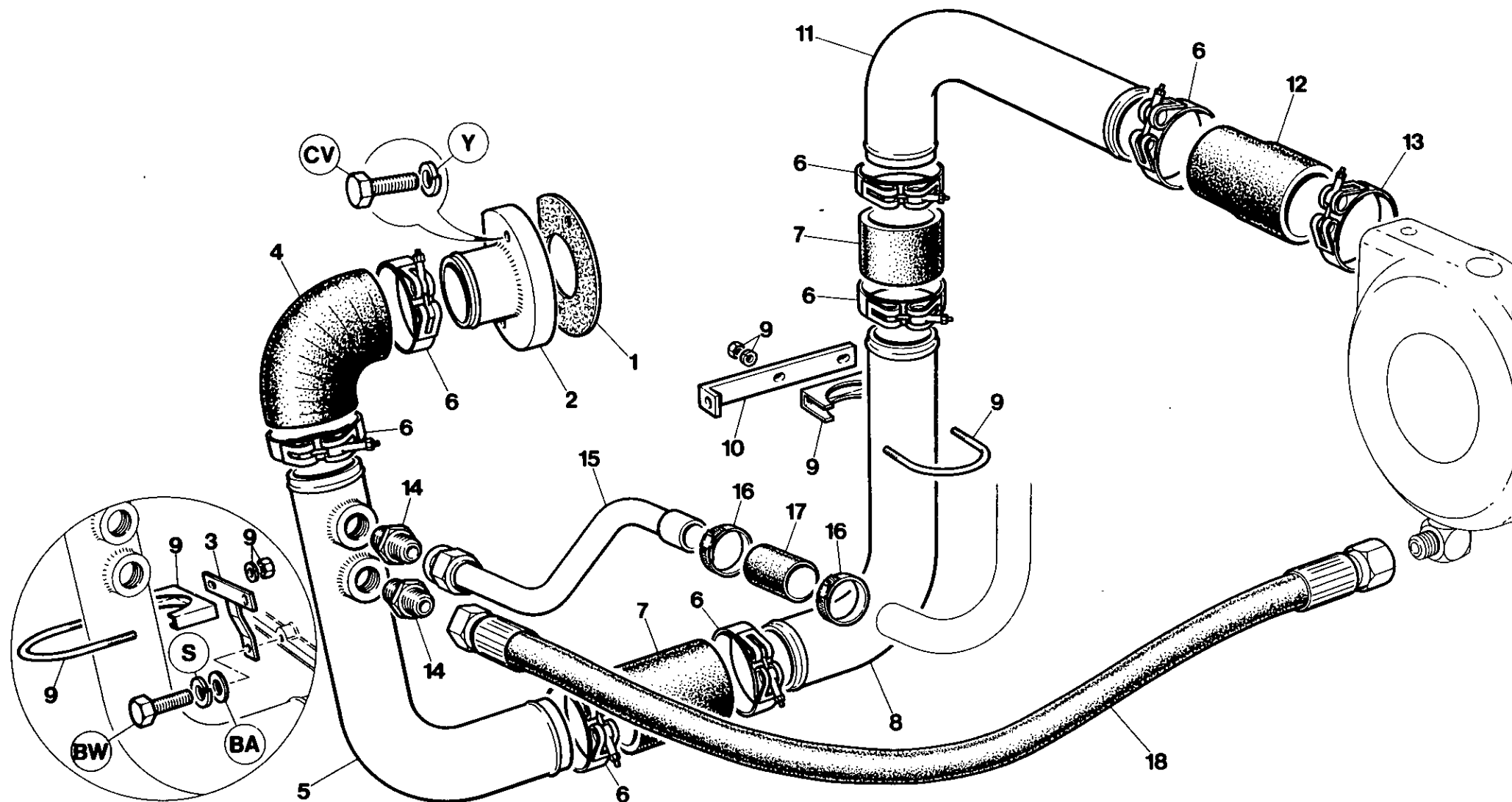
7.5.8

INGERSOLL-RAND

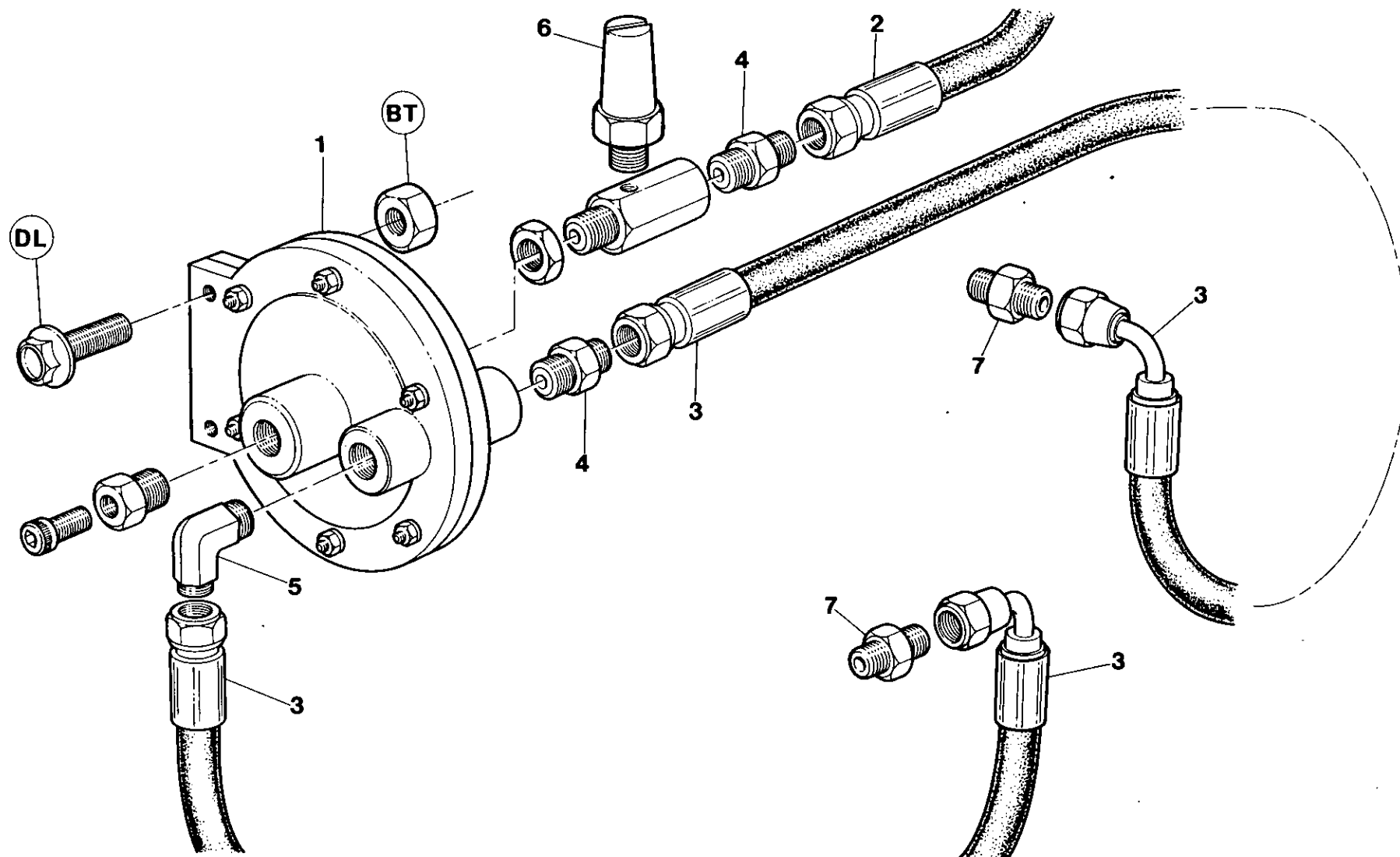
Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92546340	1	Pipe					
2	92281013	1	Hose					
3	92042233	2	Clamp					
4	92540780	1	Bracket					
5	92253079	1	Clamp					
6	92055201	1	Stud					
7	92546688	1	Elbow					
8	92040765	2	Clamp					



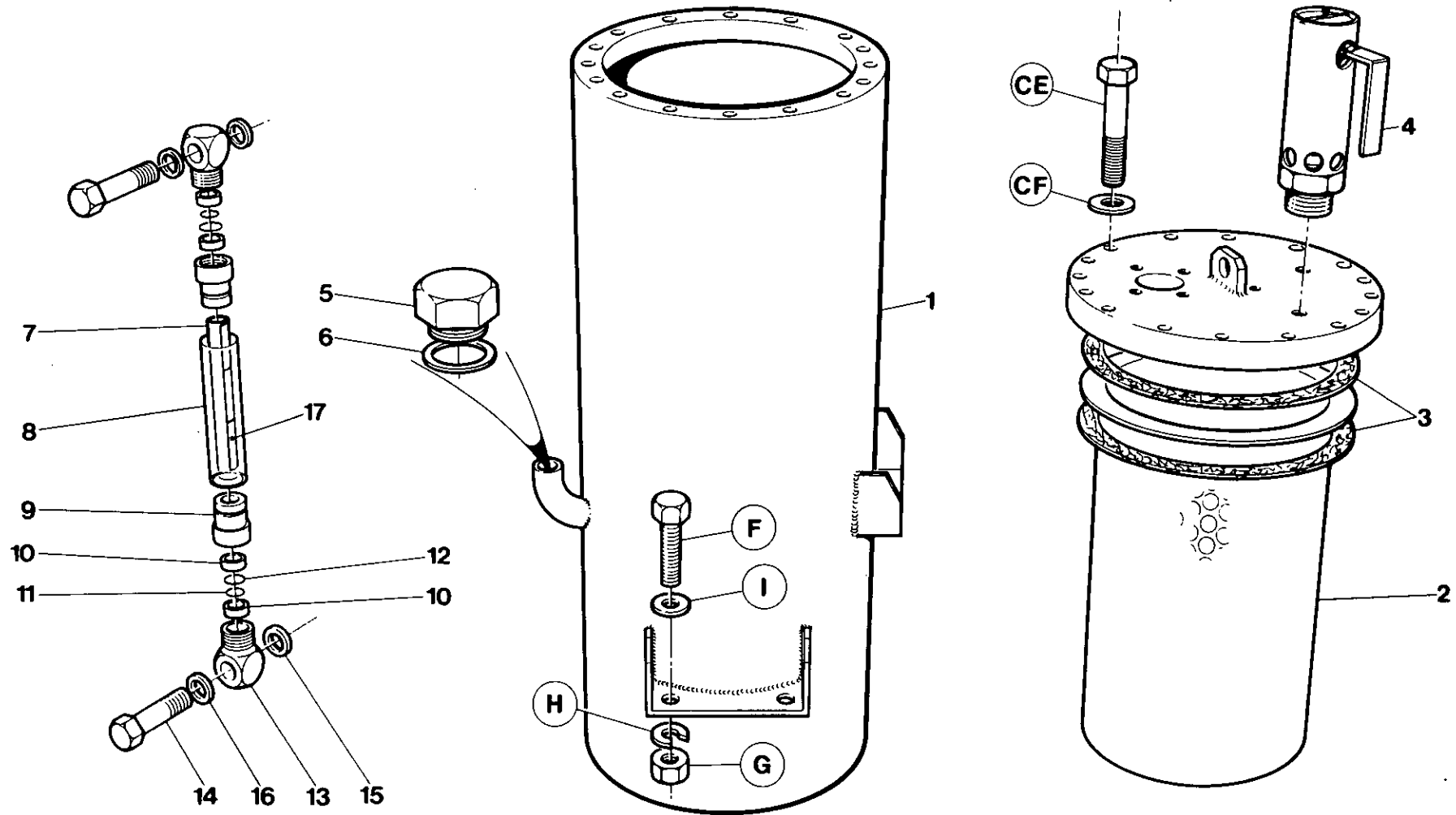
Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92546506	1	Flange					
2	92546514	1	Gasket					
3	92546670	1	Elbow					
4	92547638	1	Pipe					
5	92668920	1	Hose					
6	92547612	1	Pipe					
7	92347459	1	Hose					
8	35297599	1	Clamp					
9	92040765	5	Clamp					
10	92253079	2	Clip					
11	92677301	2	Bolt					



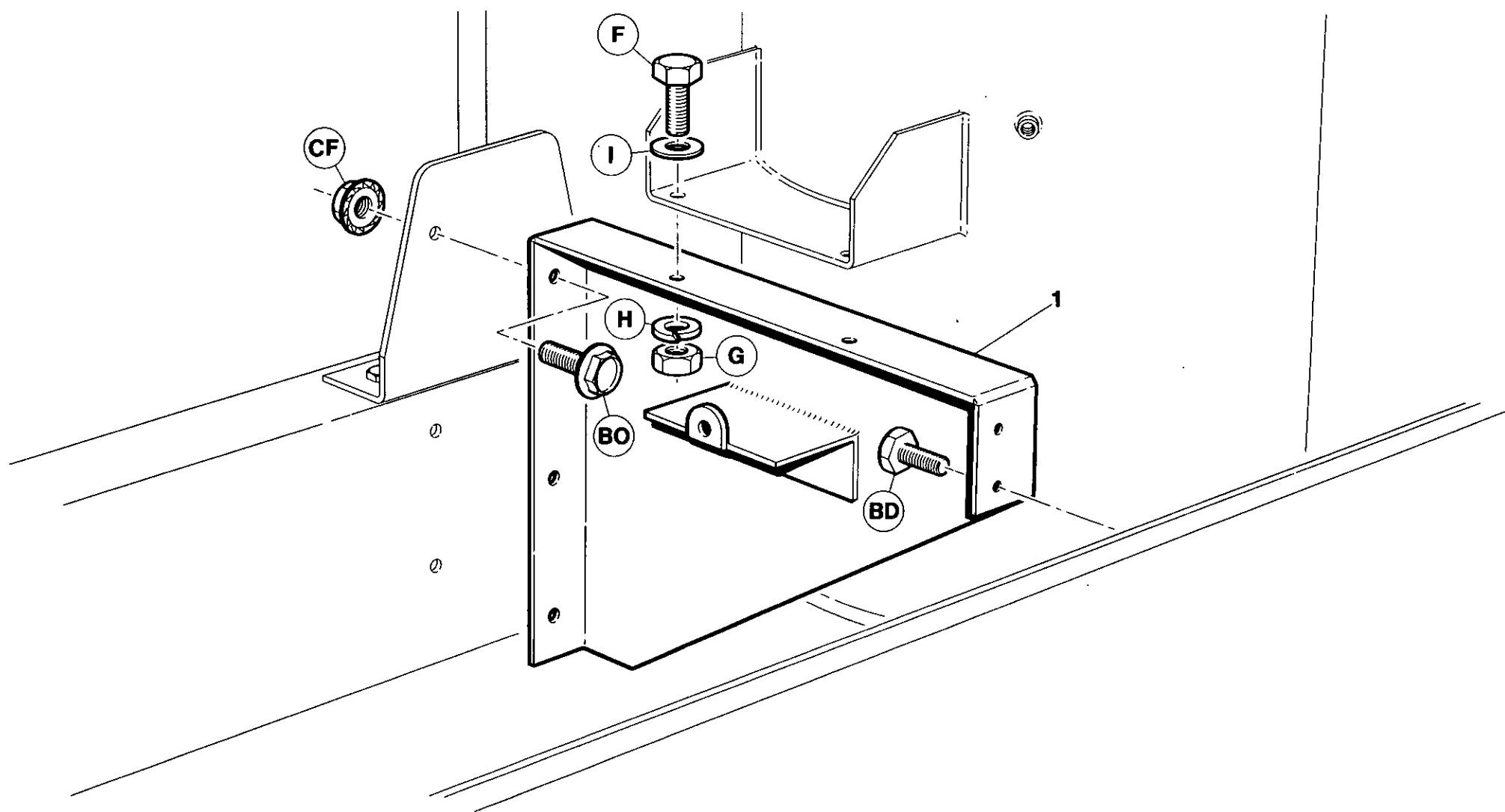
Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92546530	1	Gasket					
2	92546522	1	Flange					
3	92677293	1	Bracket					
4	92546688	1	Elbow					
5	92546696	1	Pipe					
6	92040765	7	Clamp					
7	92347459	2	Hose					
8	92546704	1	Pipe					
9	92253079	2	Clip					
10	92546977	1	Bracket					
11	92546712	1	Pipe					
12	92546662	1	Hose					
13	35295799	1	Clamp					
14	92478304	2	Adaptor					
15	92547058	1	Pipe					
16	92321702	2	Clamp					
17	92547041	1	Hose					
18	92658046	1	Hose					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92657410	1	Water Loss Valve					
2	92547652	1	Hose					
3	92100924	2	Hose					
4	92478569	2	Connector					
5	92395458	1	Elbow					
6	92089556	1	Silencer					
7	92478569	2	Connector					

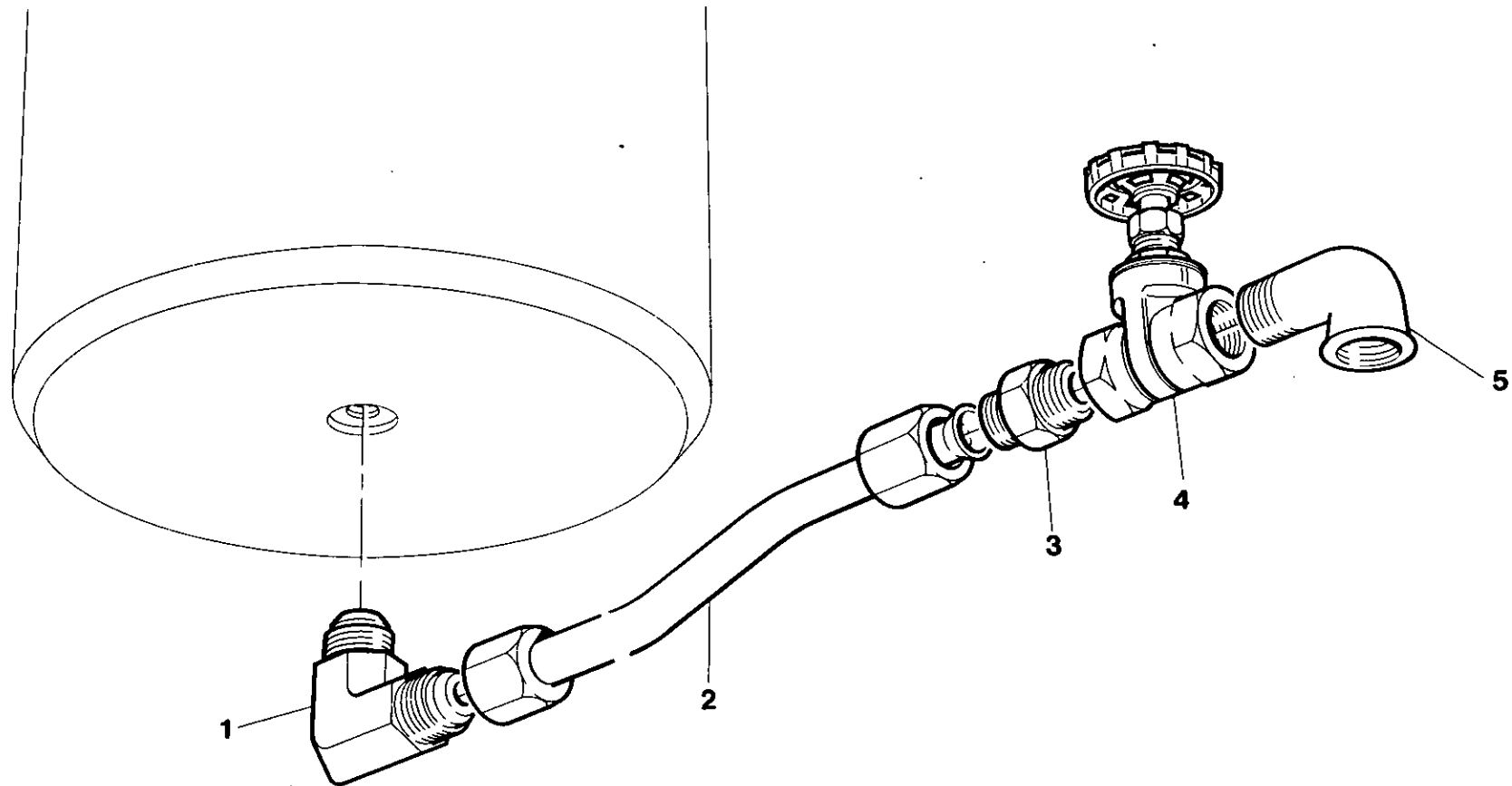


Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92056845	1	Separator Tank					
2	92062132	1	Element					
4	92049188	1	Valve					
5	35579630	1	Plug					
6	35279942	1	O-Ring					
(7-17)	92095363	1	Gauge Assy					
7	92095371	1	Tube					
8	92095389	1	Tube					
9	92095397	2	Nut					
10	92095405	4	Ferrule					
11	92095413	2	O-Ring					
12	92095421	2	O-Ring					
13	92095439	2	Collar					
14	92095447	2	Nipple					
15	92095454	2	Washer					
16	92095462	2	Washer					
17	92094994	1	Indicator					

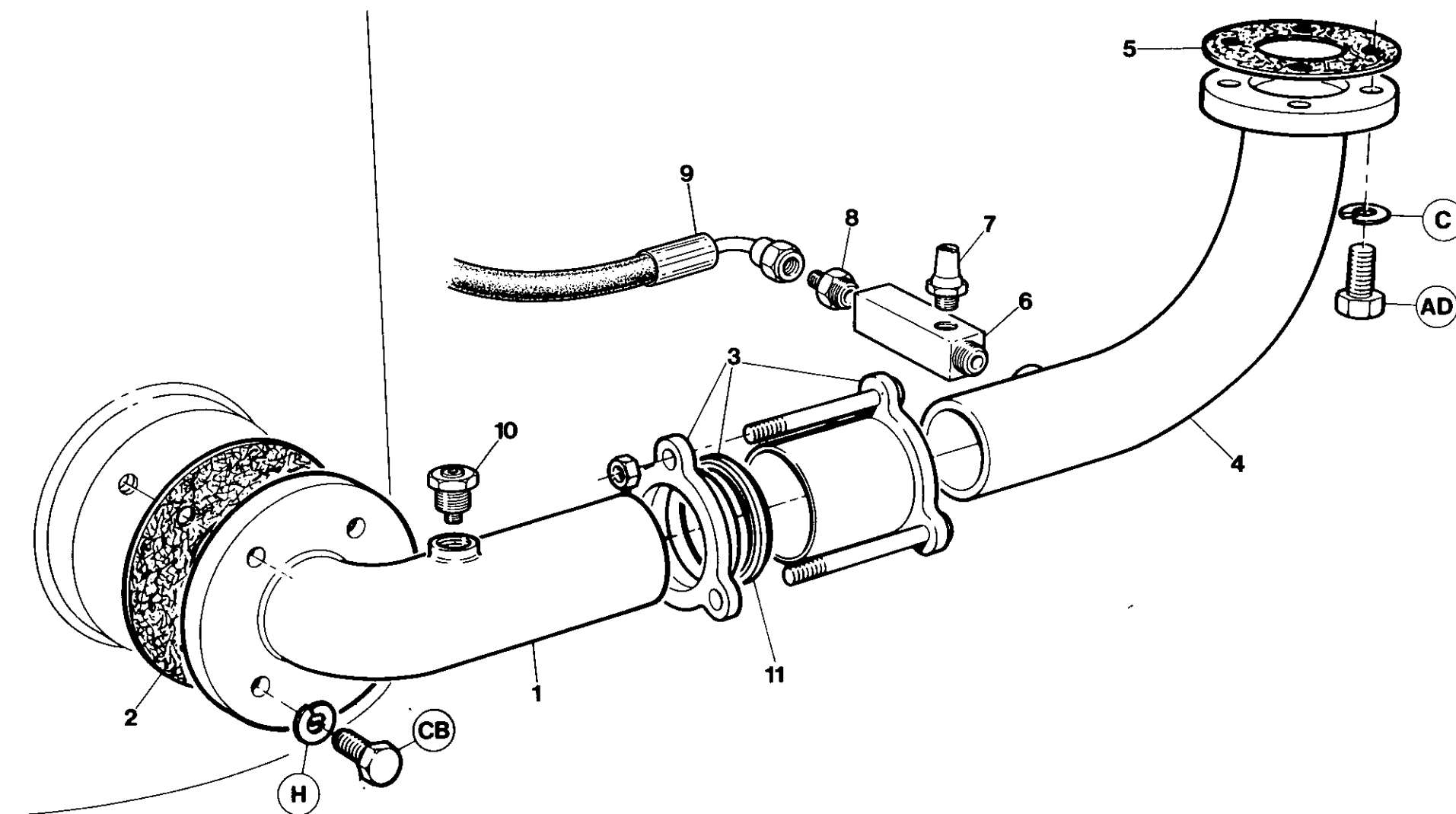


Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
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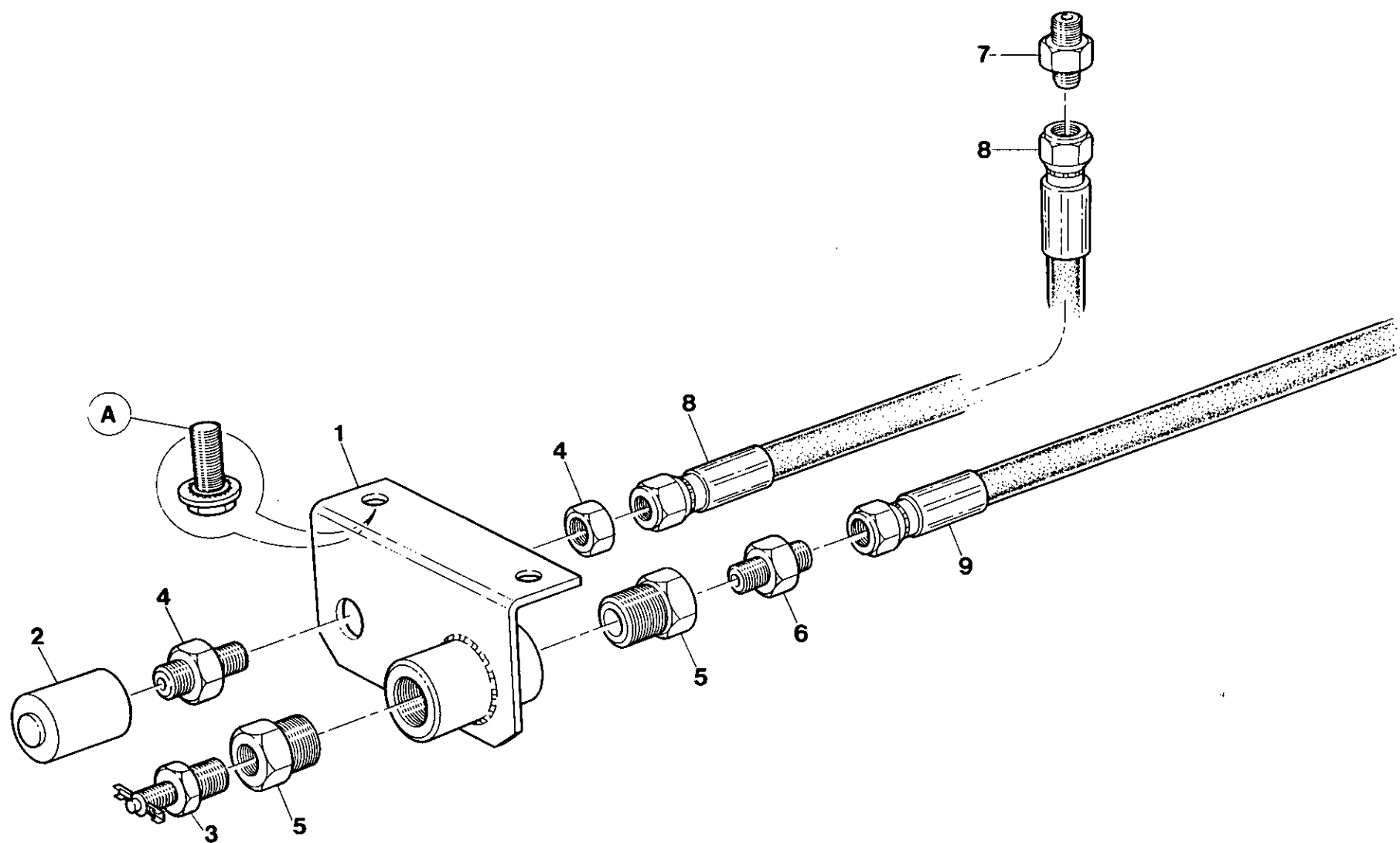
1	92066299	1	Bracket					
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Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92477207	1	Elbow					
2	92043041	1	Tube					
3	92419563	1	Connector					
4	92043116	1	Valve					
5	92354513	1	Elbow					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92666031	1	Pipe					
2	92058544	1	Gasket					
3	35214683	1	Coupling					
4	92067347	1	Pipe					
5	35575570	1	Gasket					
6	92546464	1	Valve					
7	92089556	1	Silencer					
8	92478569	1	Adaptor					
9	92658004	1	Hose					
10	92661743	1	Adaptor - Dry Bulb					
11	95140653	2	Gasket					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92544287	1	Bracket					
2	35321389	1	Cap					
3	92258706	1	Drain Cock					
4	92544246	1	Connector					
5	92354380	2	Reducing Bush					
6	92478387	1	Connector					
7	92492800	1	Connector					
8	92520360	1	Hose					
9	92049097	1	Hose					

COOLING SYSTEM

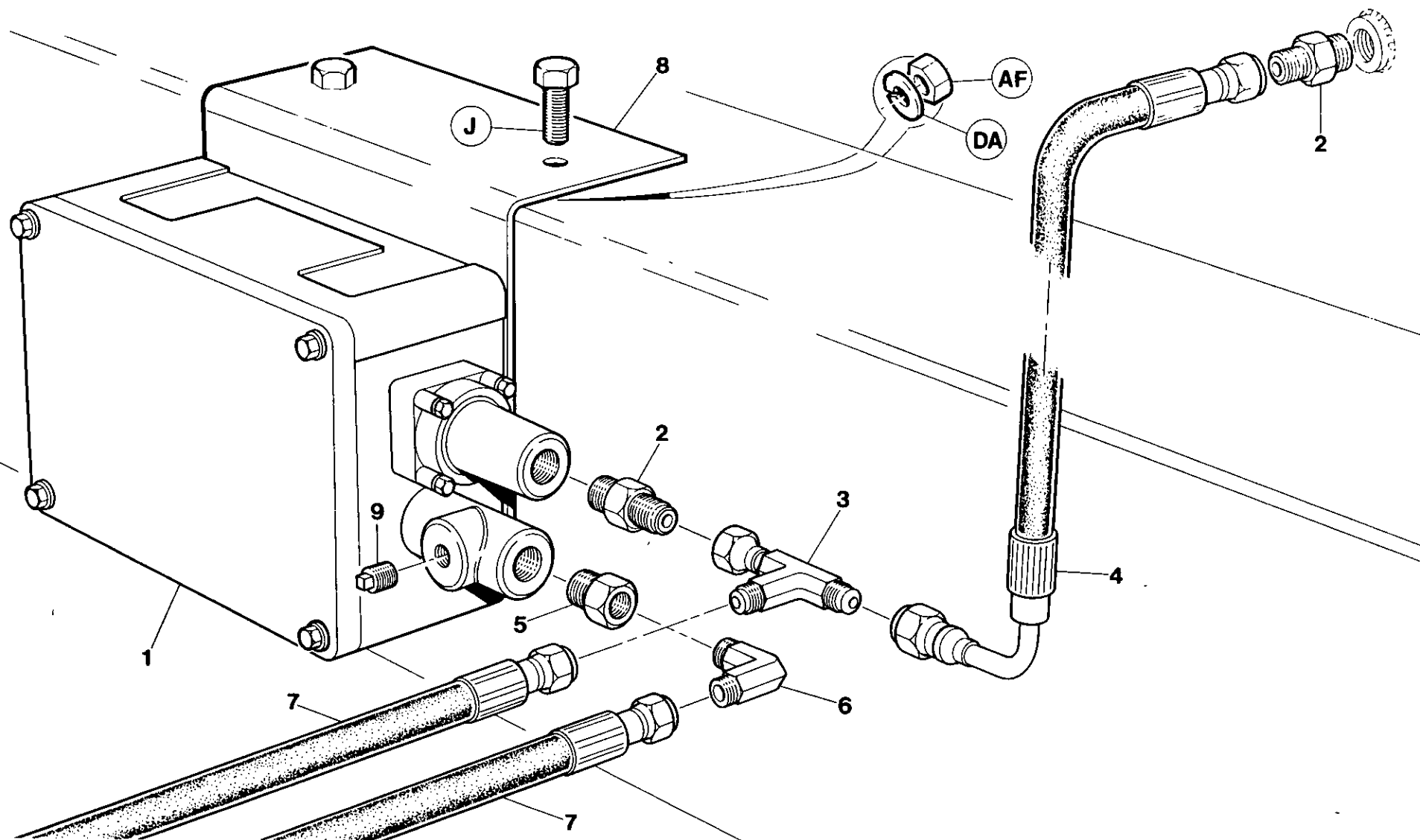
SYSTÈME DE
REFROIDISSEMENT

KÜHLSYSTEM

SISTEMA DE
RAFFREDDAMENTO

SISTEMA DE
REFRIGERACION

جهاز التبريد :



7.5.26

INGERSOLL-RAND

Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92657444	1	Oil Pressure Valve					
2	92478569	2	Adaptor					
3	92100957	1	Tee					
4	92100924	1	Hose					
5		1	Reducing Bush					
6	92395458	1	Elbow					
7	92547645	2	Hose					
8	92658152	1	Bracket					
9	92354661	1	Plug					

Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
(1—2)	92071166	1	Oil Filter Assy					
1	92071174	1	Head					
2	92071182	2	Element					
3	92087840	1	Adaptor					
4	92058478	1	Bulkhead Adaptor					
5	92395466	1	Adaptor					
6	92058445	1	Tube					
7	92036664	1	Hose					
8	92512961	1	Tube					
9	92087832	1	Elbow					

COOLING SYSTEM

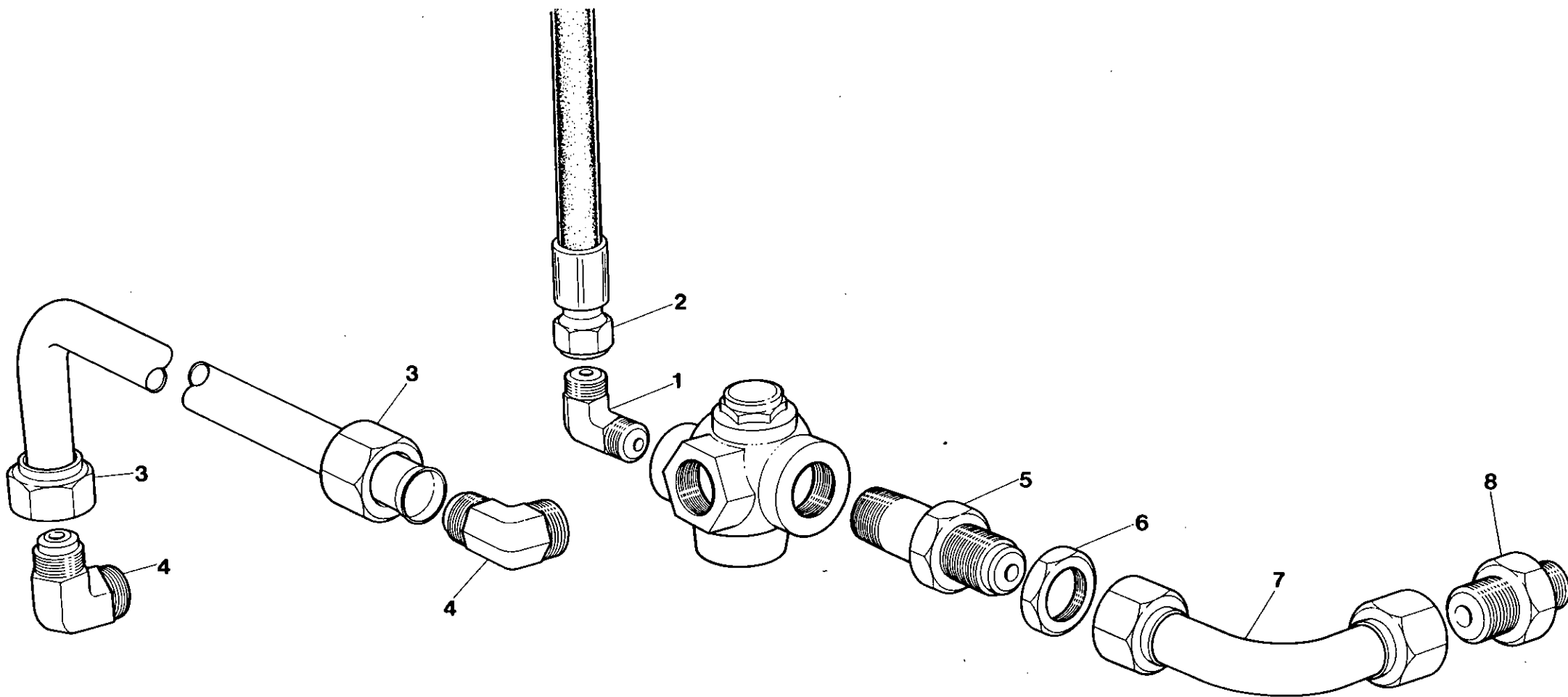
SYSTÈME DE
REFROIDISSEMENT

KÜHLSYSTEM

SISTEMA DE
RAFFREDDAMENTO

SISTEMA DE
REFRIGERACION

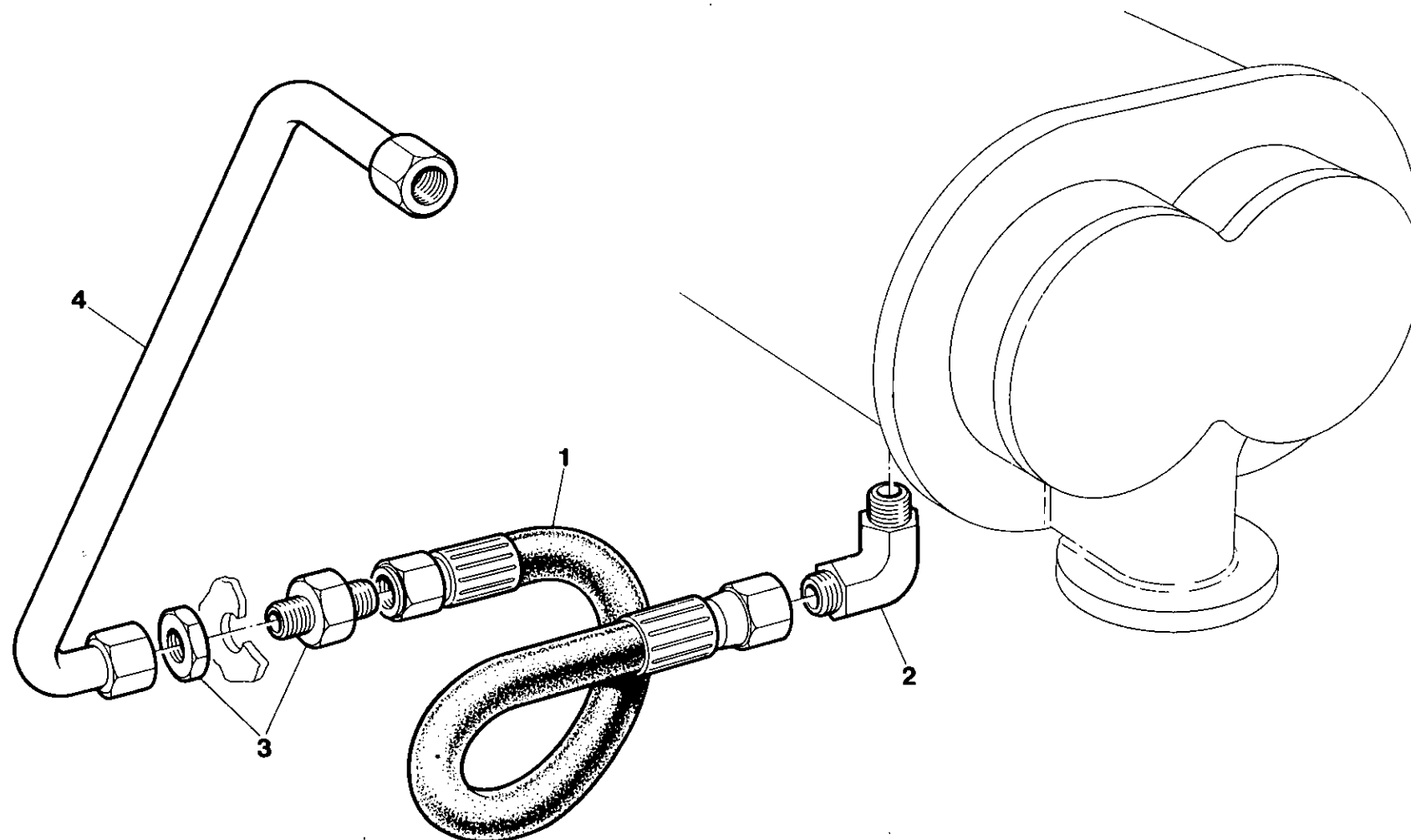
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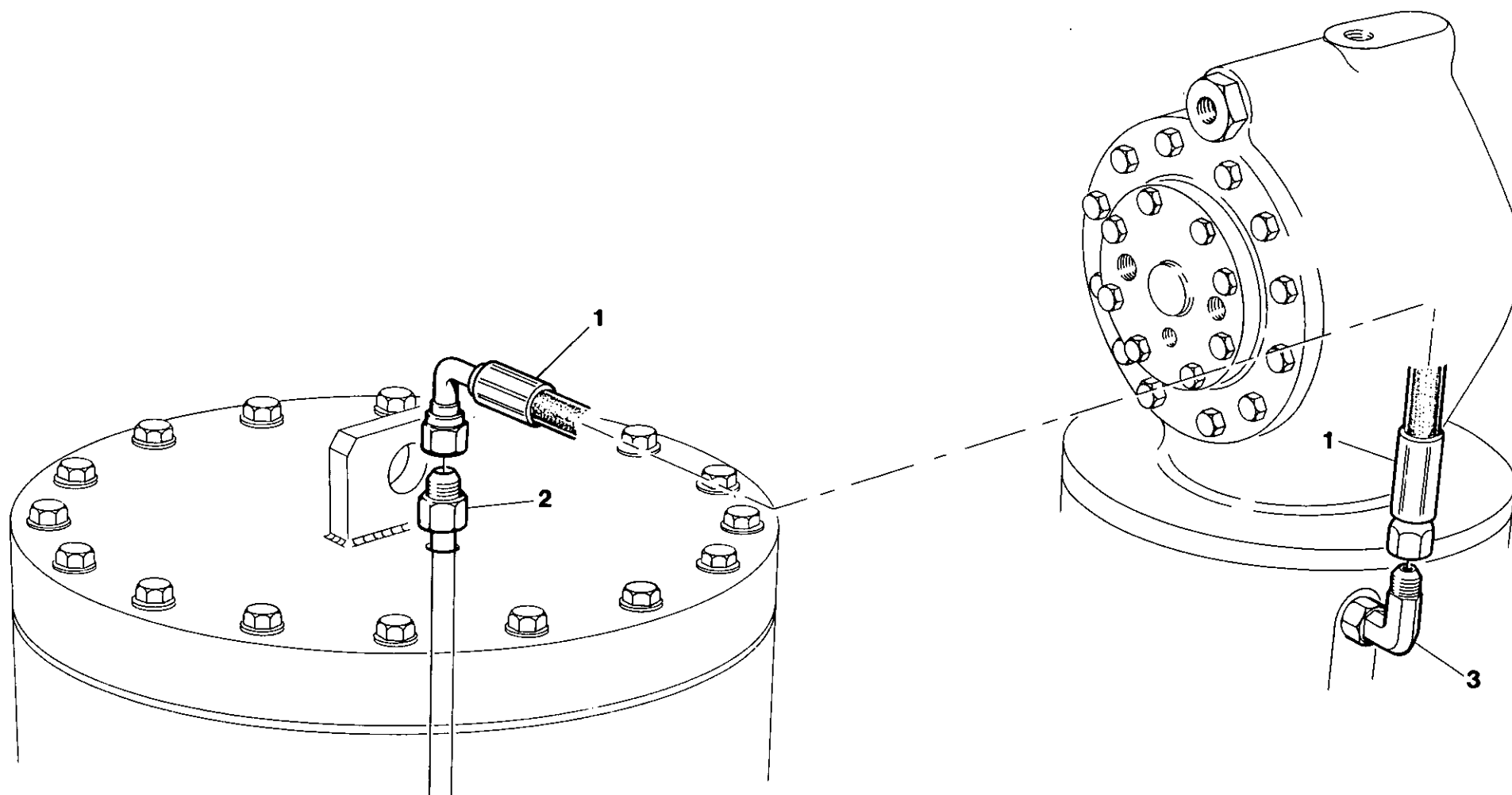
7.5.30

INGERSOLL-RAND

Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92058064	1	Elbow					
2	92036664	1	Hose					
3	92036615	1	Tube					
4	92087832	2	Elbow					
5	92058486	1	Bulkhead Adaptor					
6	92058494	1	Locknut					
7	92036599	1	Tube					
8	92087840	1	Adaptor					

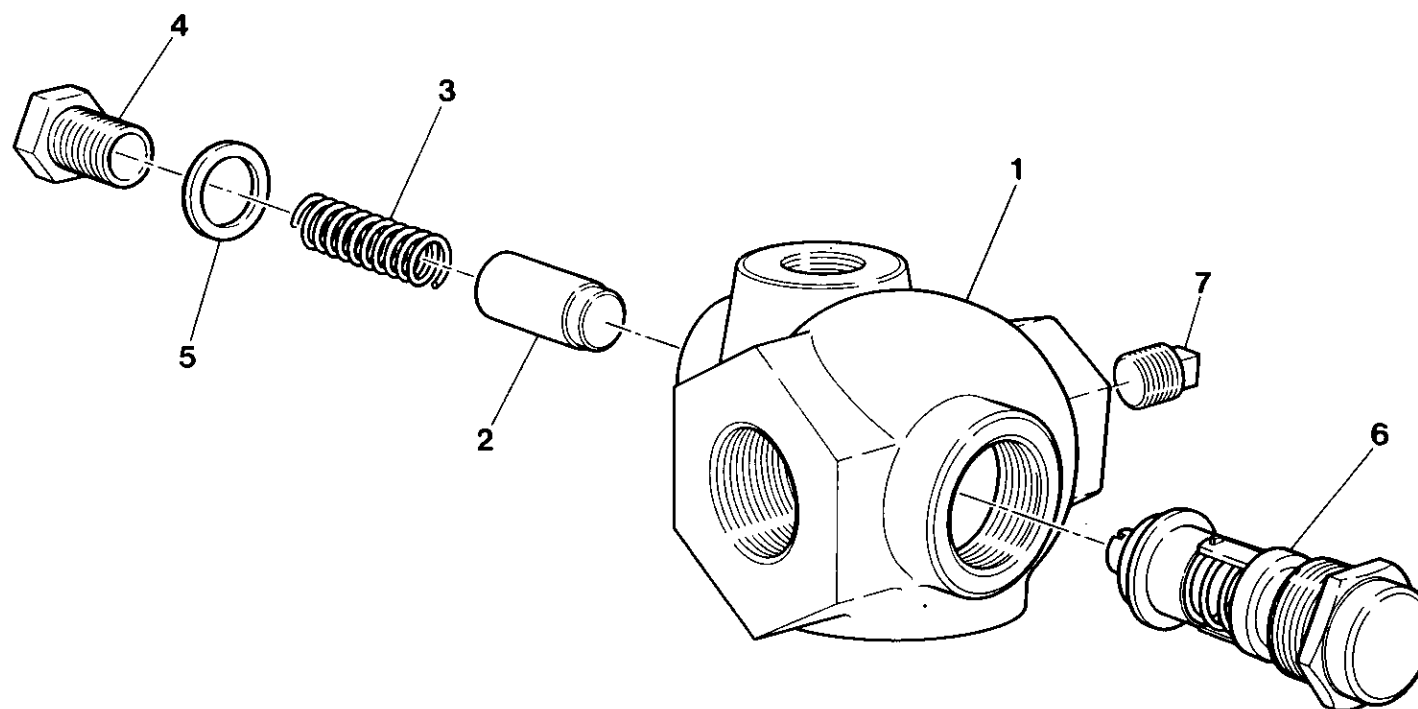


Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92034206	1	Hose					
2	92087832	1	Elbow					
3	92058635	1	Bulkhead Connector					
4	92058445	1	Tube					

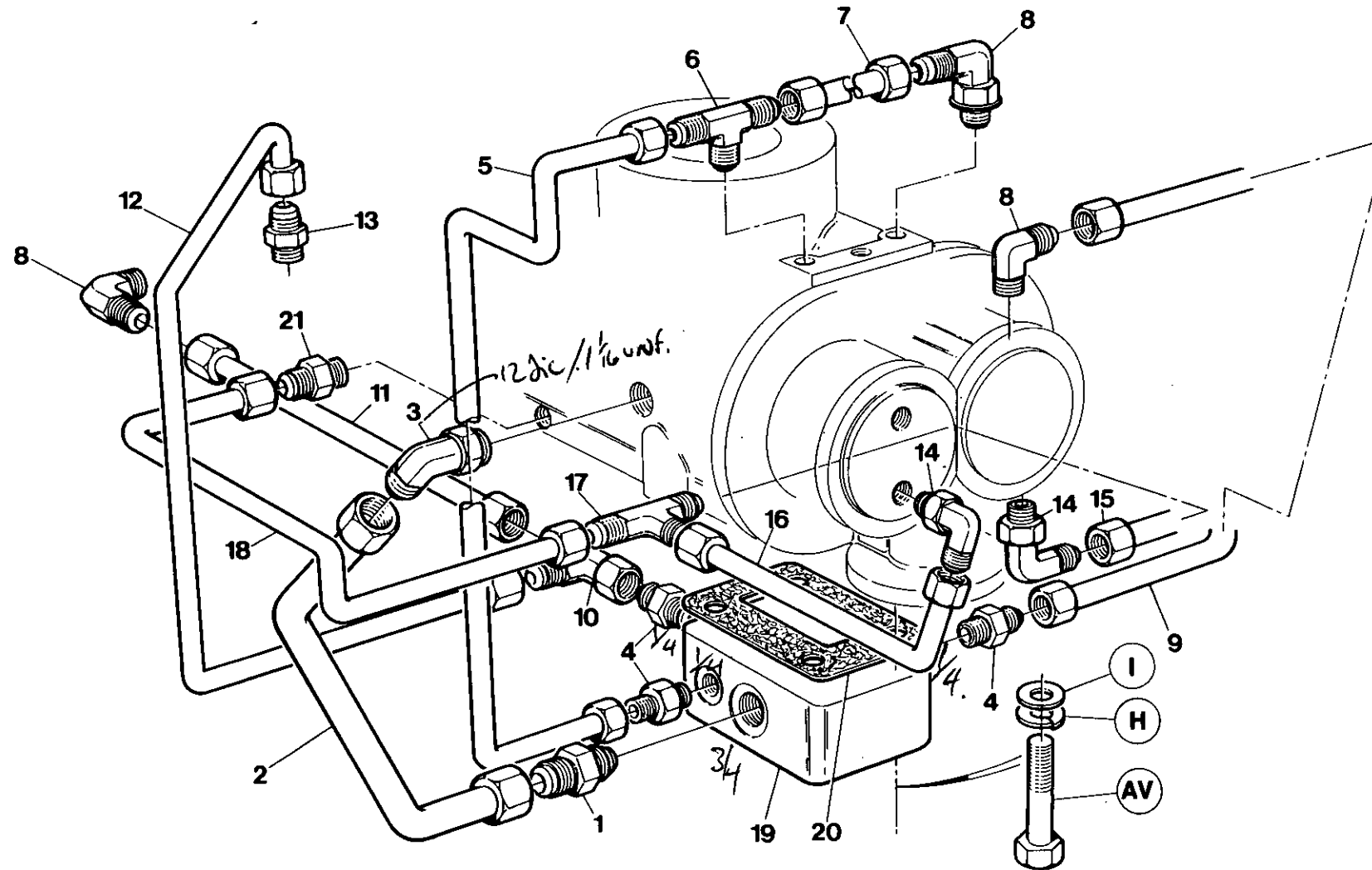


Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
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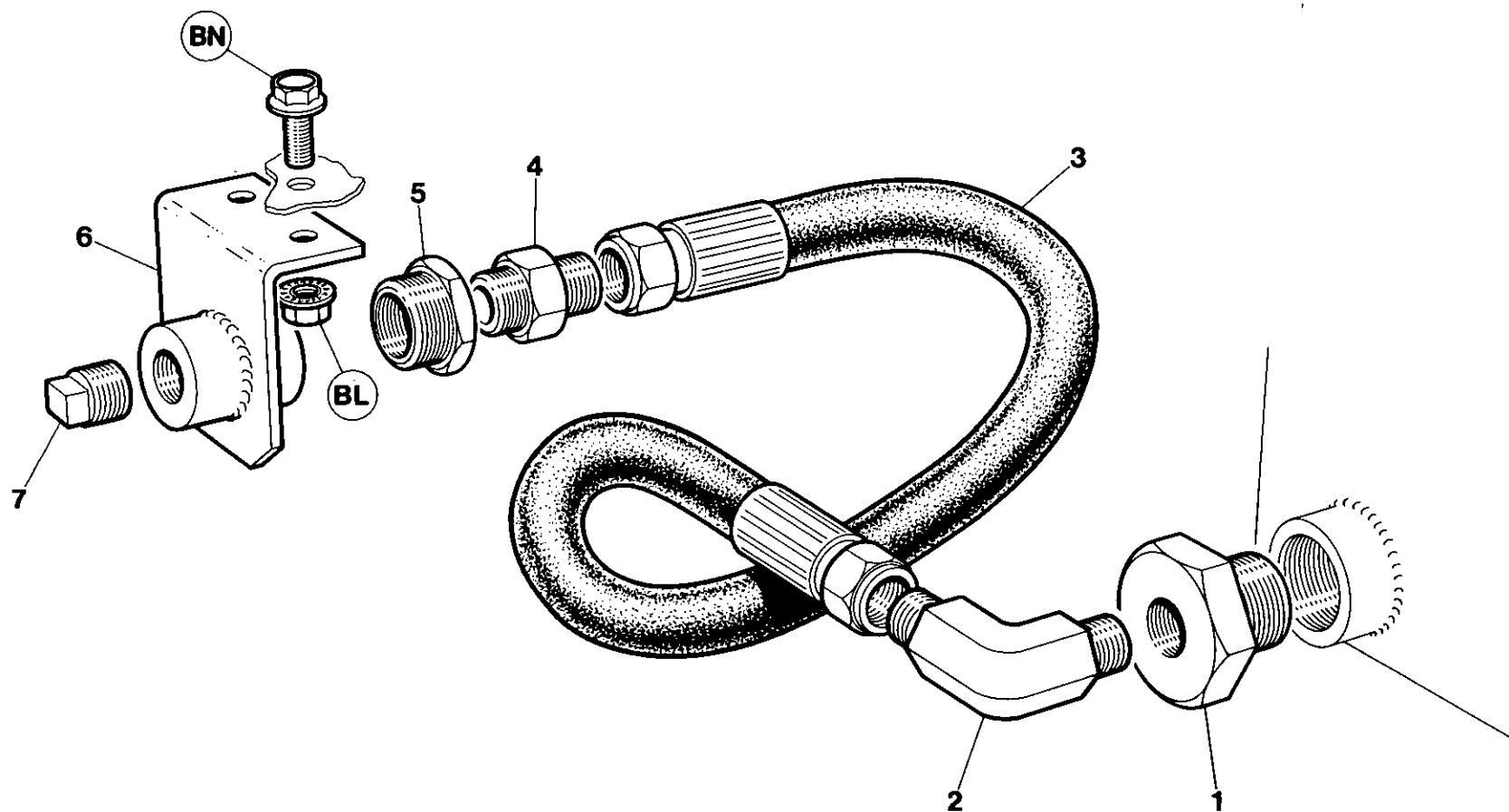
1	92079474	1	Hose					
2	92062140	1	Tube					
3	92080811	1	Orifice Elbow					



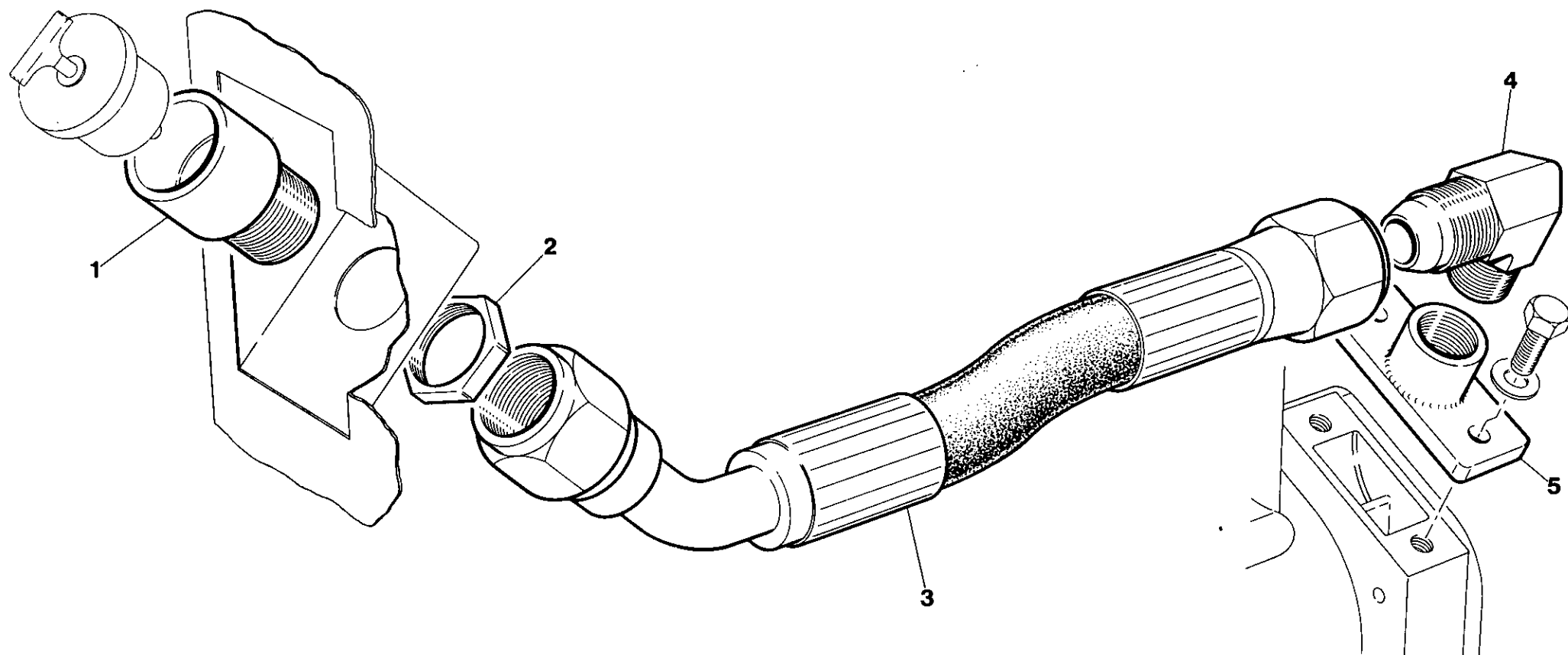
Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
(1-7)	92058627	1	Bypass Valve Assy					
1	92061928	1	Body					
2	35163054	1	Bypass Valve					
3	30672430	1	Spring					
4	35214543	1	Nut					
5	30549919	1	Gasket					
6	35102441	1	Oil Temp Valve					
7	92257351	1	Plug					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92123215	1	Connector					
2	92057033	1	Tube					
3	35294750	1	Elbow					
4	92104132	3	Adaptor					
5	92057041	1	Tube					
6	92109875	1	Tee					
7	35582832	1	Tube					
8	35279876	3	Elbow					
9	92052398	1	Tube					
10	92100957	1	Tee					
11	92056647	1	Tube					
12	92057058	1	Tube					
13	35287903	3	Connector					
14	35279801	2	Elbow					
15	92083252	1	Tube					
16	92083260	1	Tube					
17	92083245	1	Tee					
18	92057066	1	Tube					
19	92070945	1	Manifold					
20	35275908	1	Gasket					
21	92071380	1	Connector					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
1	92517747	1	Adaptor					
2	92395557	1	Elbow					
3	92520402	1	Hose					
4	92419563	1	Connector					
5	922527411	1	Bush					
6	926570481	1	Bracket					
7	92257369	1	Plug					



Item	C.P.N.	Qty	COOLING SYSTEM	SYSTÈME DE REFROIDISSEMENT	KÜHLSYSTEM	SISTEMA DE RAFFREDDAMENTO	SISTEMA DE REFRIGERACION	جهاز التبريد :
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1	92677418	1	Socket					
2	92677467	1	Locknut					
3	92677426	1	Hose					
4	92677459	1	Elbow					
5	92677400	1	Adaptor					

CONTROL AND
MONITORING
SYSTEM

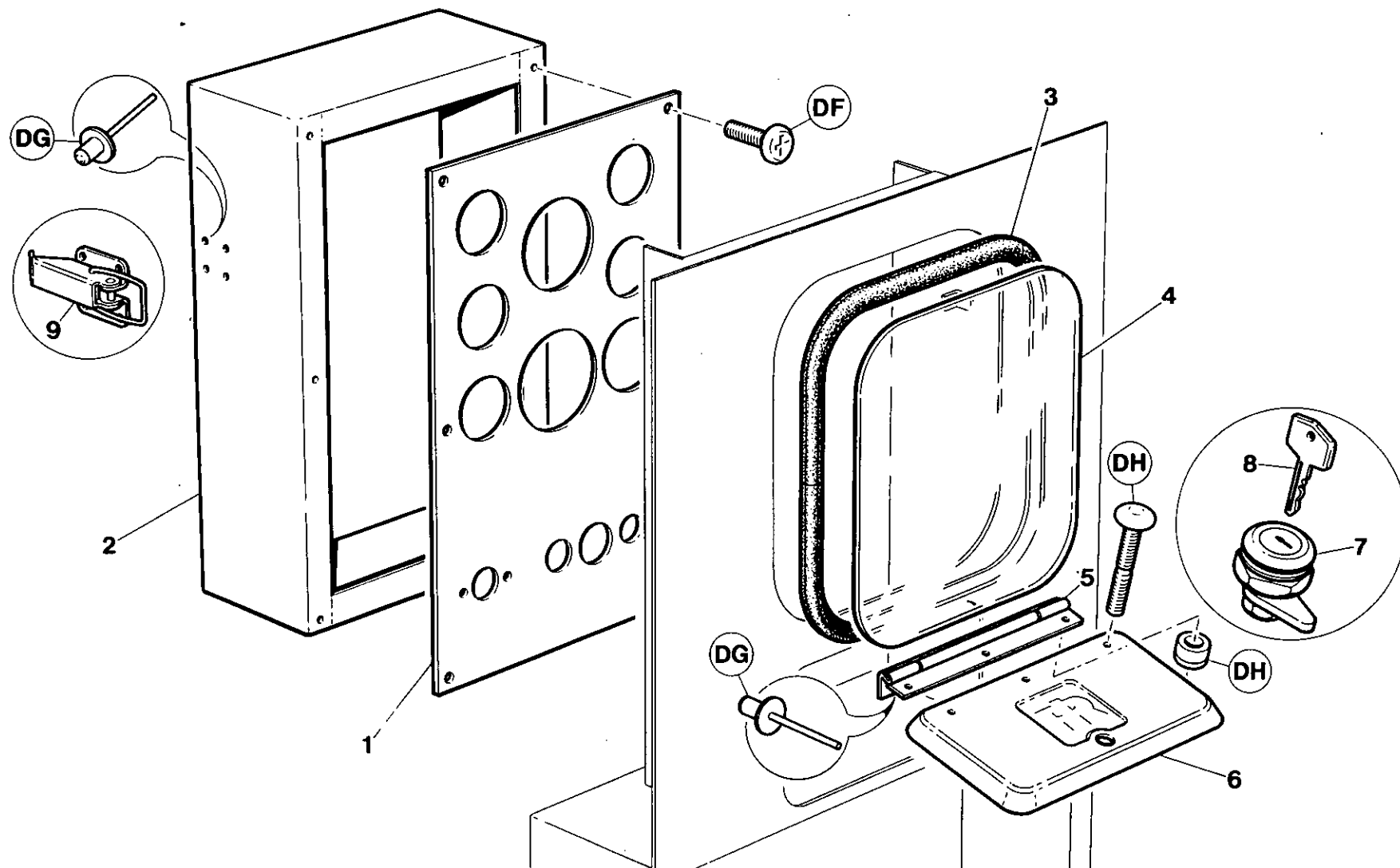
COMMANDES ET
SYSTÈME DE
CONTRÔLE

KONTROLL- UND
ÜBERWACHUNGS-
SYSTEM

SISTEMA DI
COMANDO
E CONTROLLO

SISTEMA DE
CONTROL
Y SUPERVISION

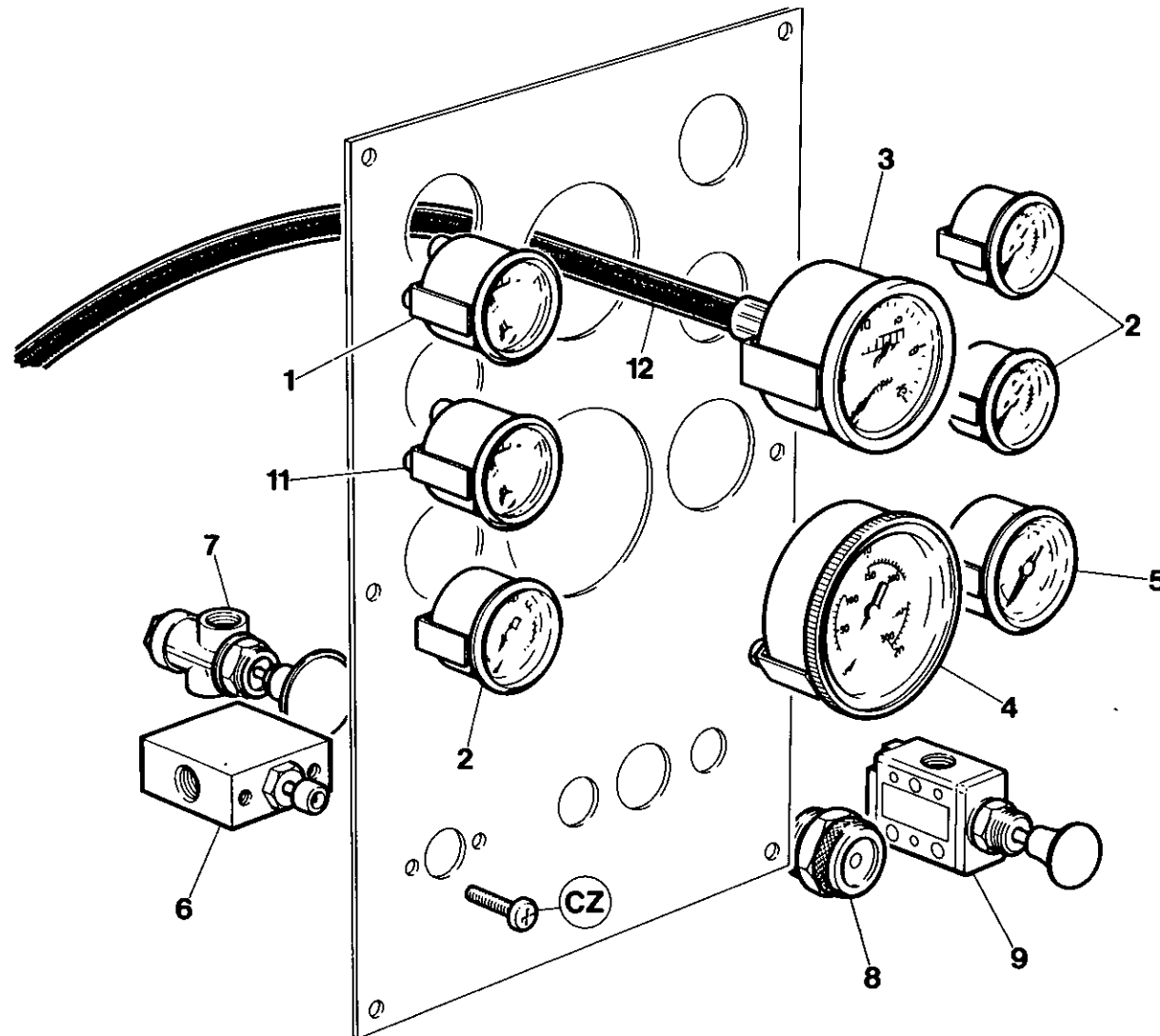
جهاز التحكم
والمرافقة :



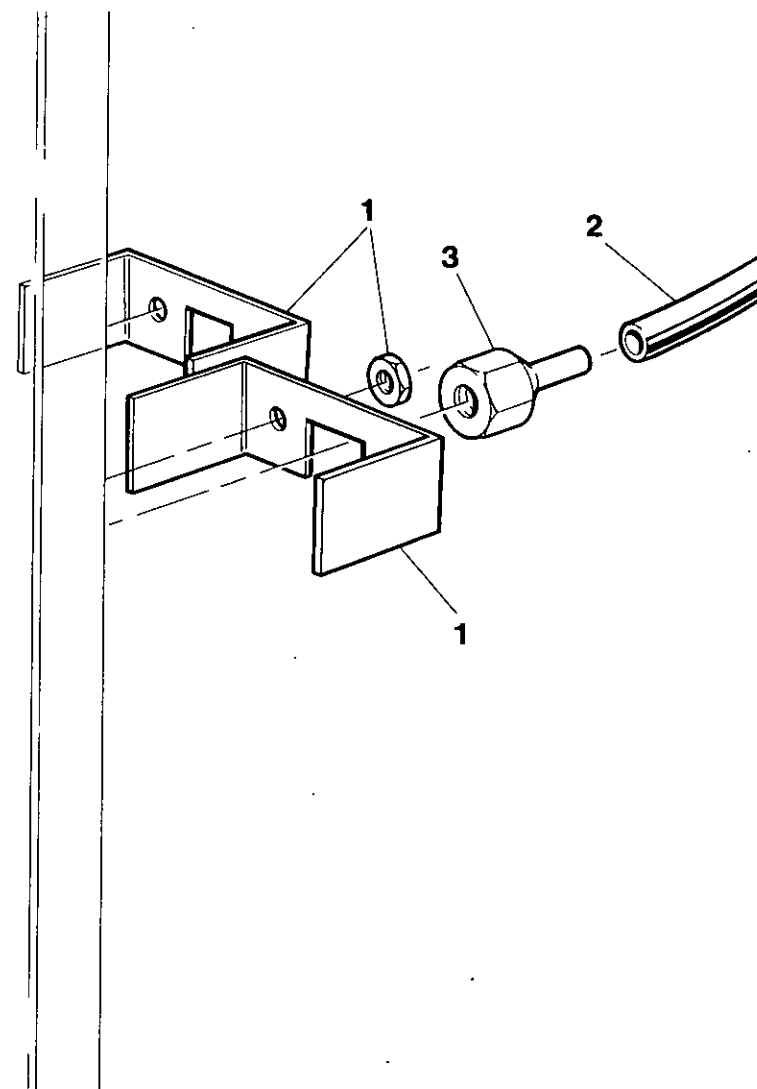
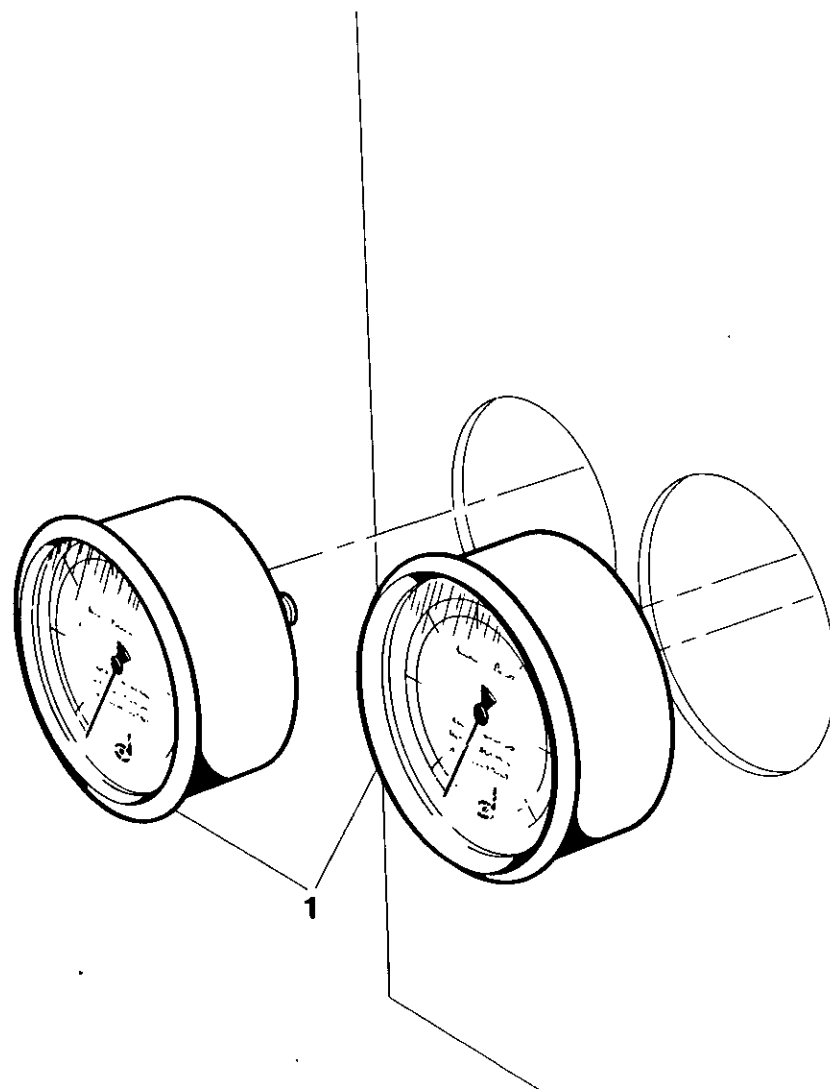
7.6.0

INGERSOLL-RAND

Item	C.P.N.	Qty	CONTROL AND MONITORING SYSTEM	COMMANDES ET SYSTÈME DE CONTRÔLE	KONTROLL- UND ÜBERWACHUNGS- SYSTEM	SISTEMA DI COMANDO E CONTROLLO	SISTEMA DE CONTROL Y SUPERVISION	جهاز التحكم والمراقبة :
1	92540533	1	Facia					
2	92540756	1	Enclosure					
3	35251800	2m	Seal					
4	92061811	1	Window					
5	92119882	1	Hinge					
6	92119924	1	Door					
7	92119932	1	Lock					
8	92041987	1	Key					
9	92042696	2	Latch					

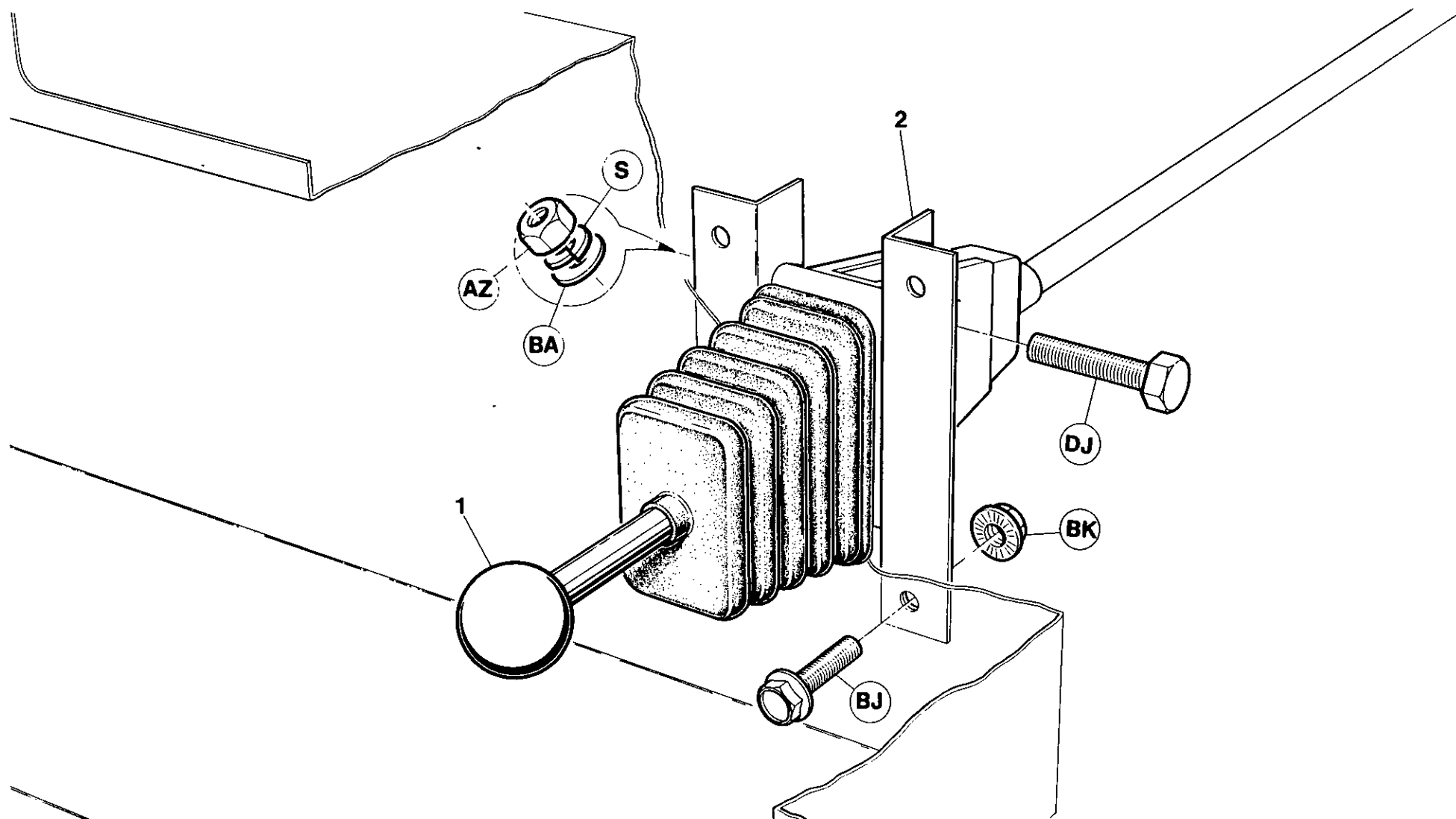


Item	C.P.N.	Qty	CONTROL AND MONITORING SYSTEM	COMMANDES ET SYSTÈME DE CONTRÔLE	KONTROLL- UND ÜBERWACHUNGS- SYSTEM	SISTEMA DI COMANDO E CONTROLLO	SISTEMA DE CONTROL Y SUPERVISION	جهاز التحكم والمراقبة :
1	92544527	1	Temperature Gauge					
2	92124692	3	Pressure Gauge					
3	92278787	1	Tachometer					
4	92089093	1	Pressure Gauge					
5	92544378	1	Temperature Gauge					
6	35583210	1	Valve					
7	03517232	1	Control Valve					
8	92657675	1	Push Button					
9	92540269	1	Valve					
10	92061845	1	Cable					
11	92544279	1	Temperature Gauge					
12	92504703	1	Cable					

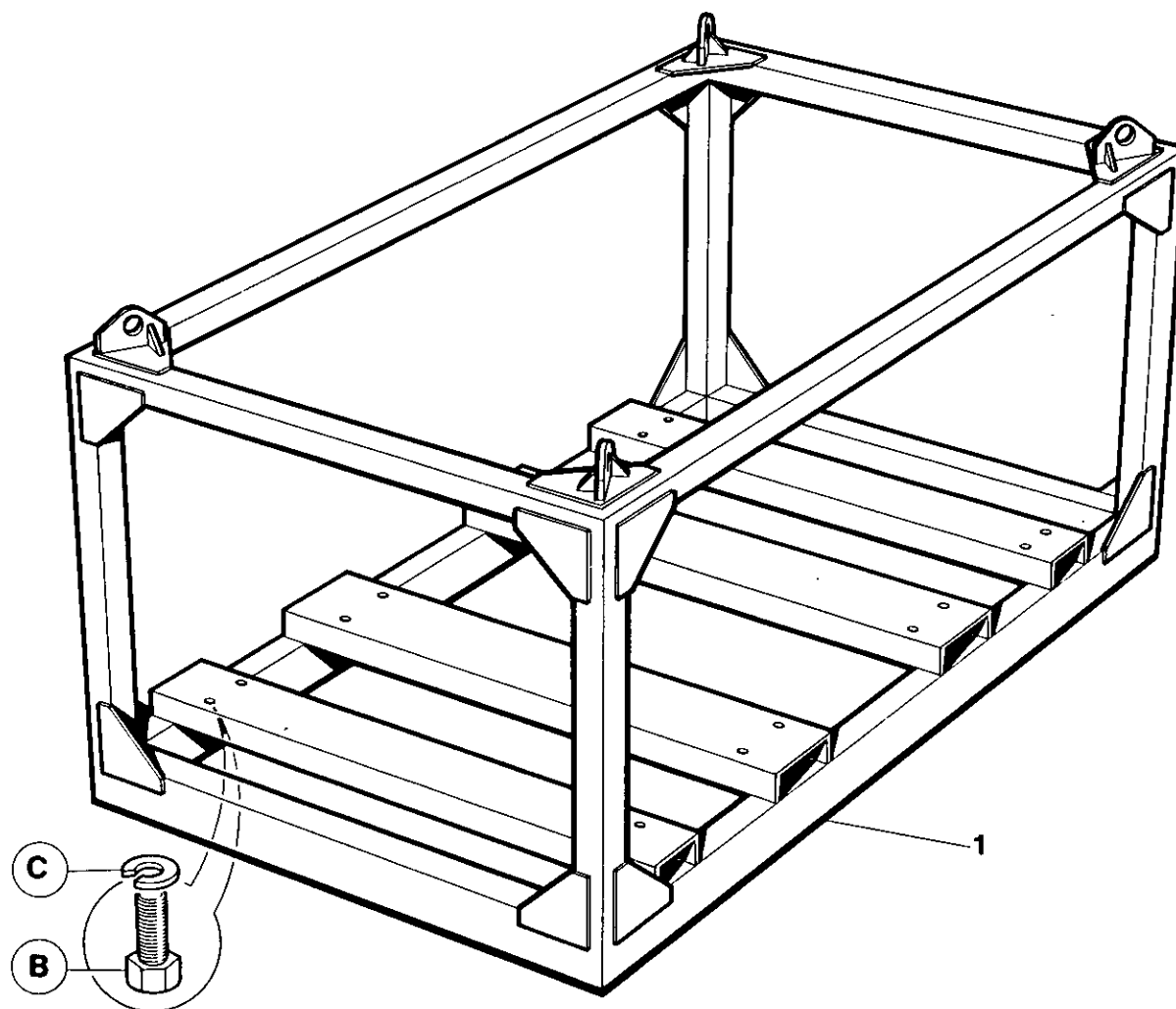


Item	C.P.N.	Qty	CONTROL AND MONITORING SYSTEM	COMMANDES ET SYSTÈME DE CONTRÔLE	KONTROLL- UND ÜBERWACHUNGS- SYSTEM	SISTEMA DI COMANDO E CONTROLLO	SISTEMA DE CONTROL Y SUPERVISION	جهاز التحكم والمراقبة :
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1	92661784	2	Indicator-Filter					
2	921111335	3.5m	Tube					
3	92055235	2	Tailpiece					

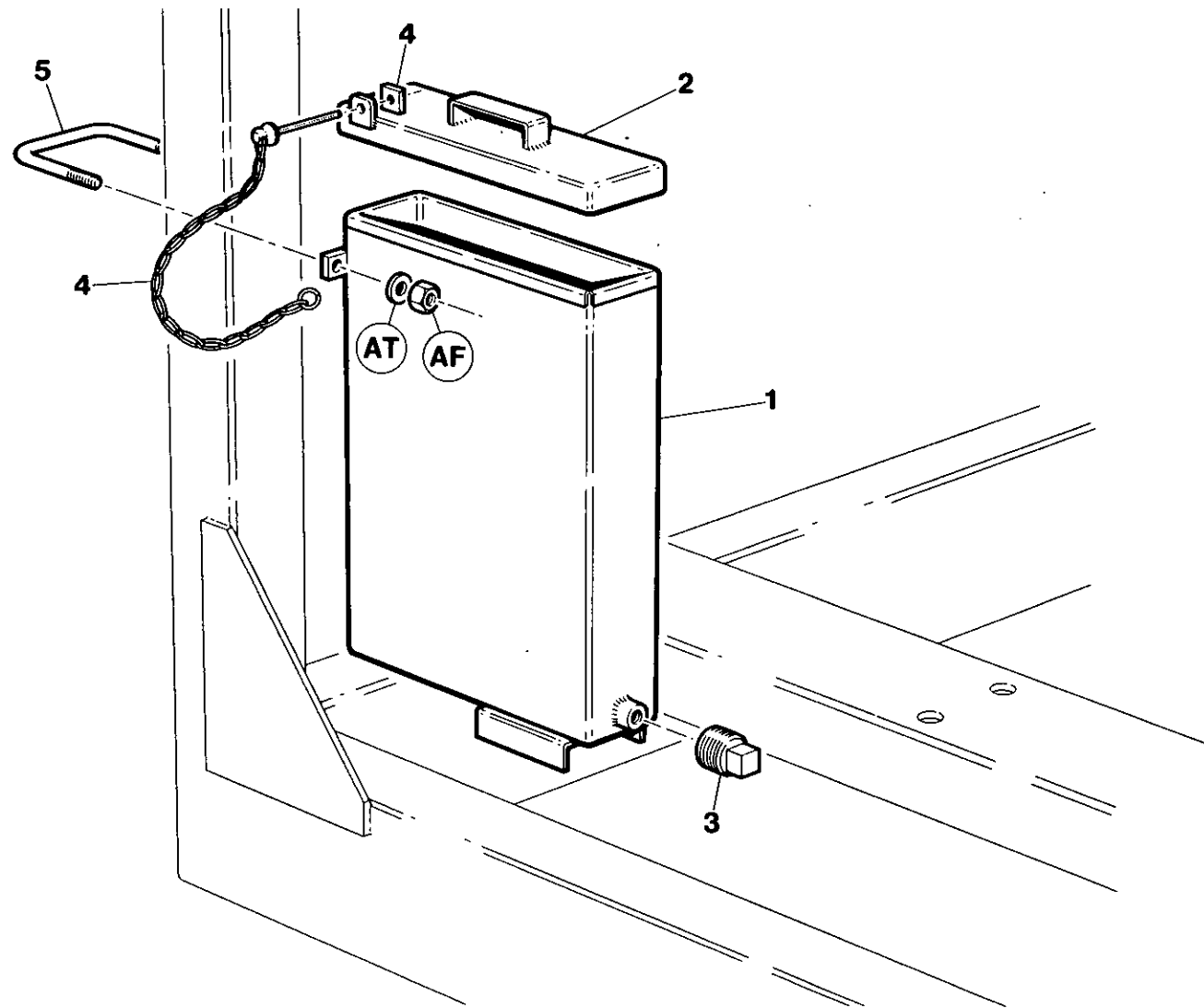


Item	C.P.N.	Qty	CONTROL AND MONITORING SYSTEM	COMMANDES ET SYSTÈME DE CONTRÔLE	KONTROLL- UND ÜBERWACHUNGS- SYSTEM	SISTEMA DI COMANDO E CONTROLLO	SISTEMA DE CONTROL Y SUPERVISION	جهاز التحكم والمراقبة :
1	92546415	1	Cable & Lever Assy					
2	92657964	2	Bracket					

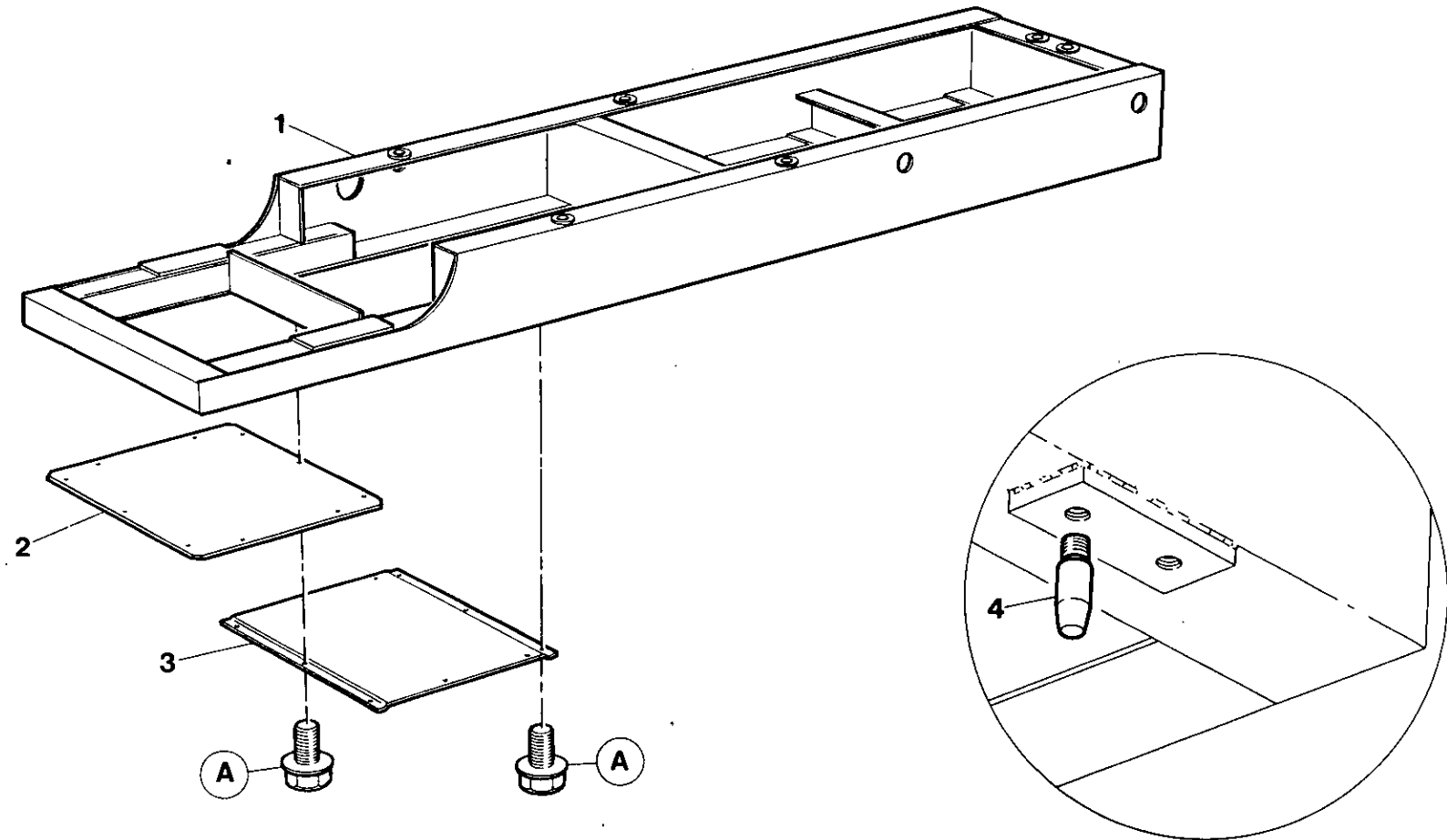


Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
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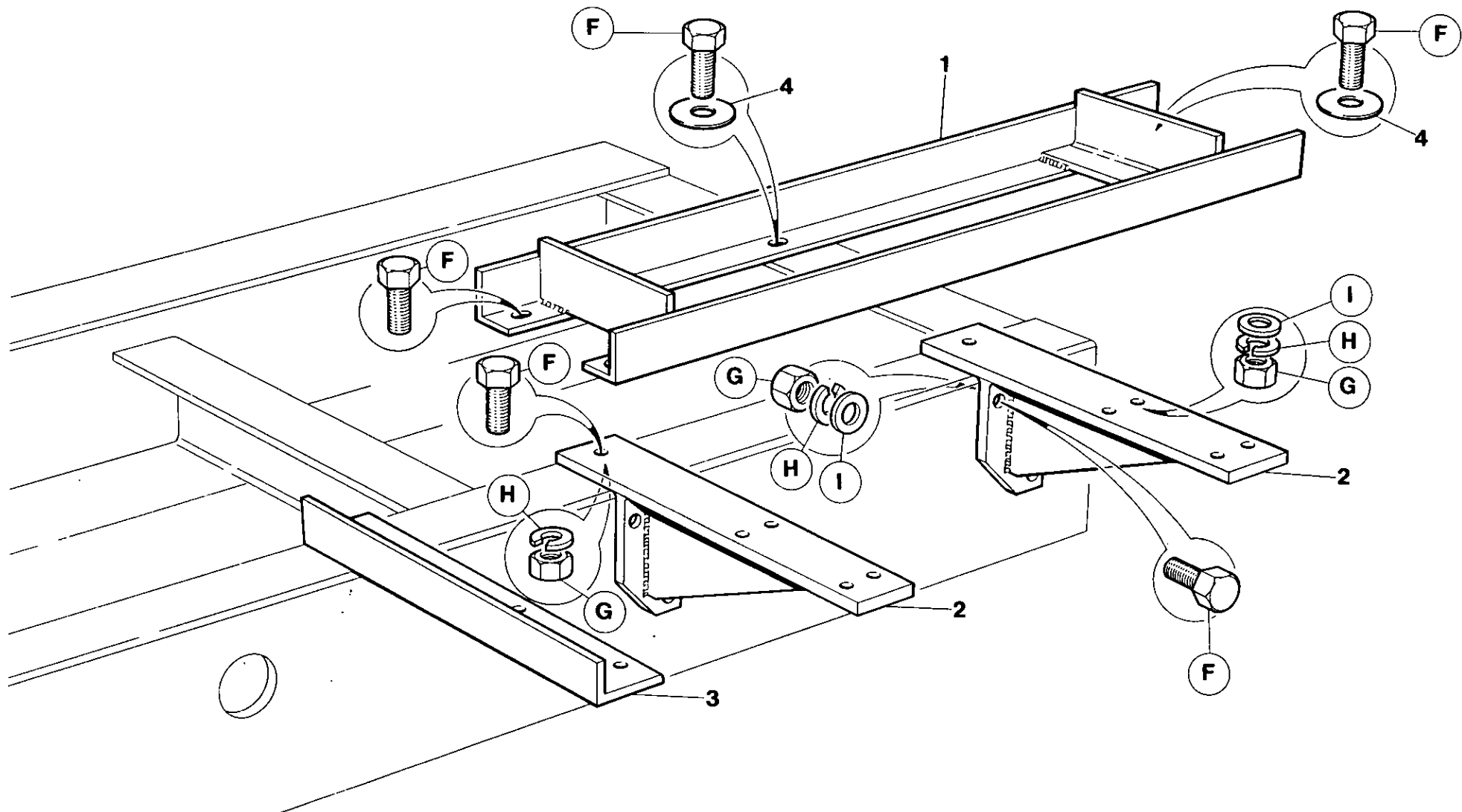
1	92540061	1	Cradle					
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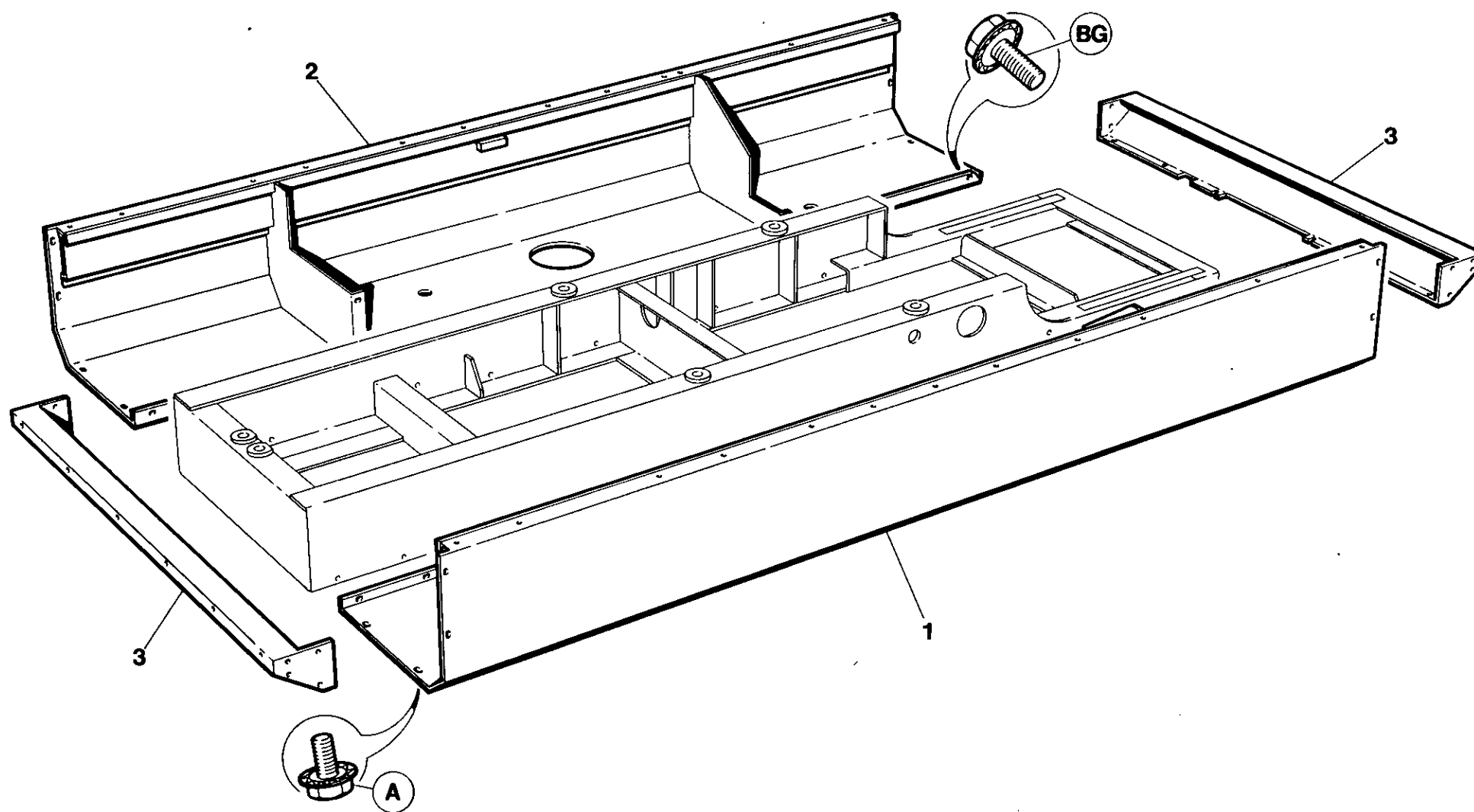
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92657725	1	Tank					
2	92658293	1	Lid					
3	92257344	1	Plug					
4	92547827	1	Chain					
5	92549328	1	Clamp					



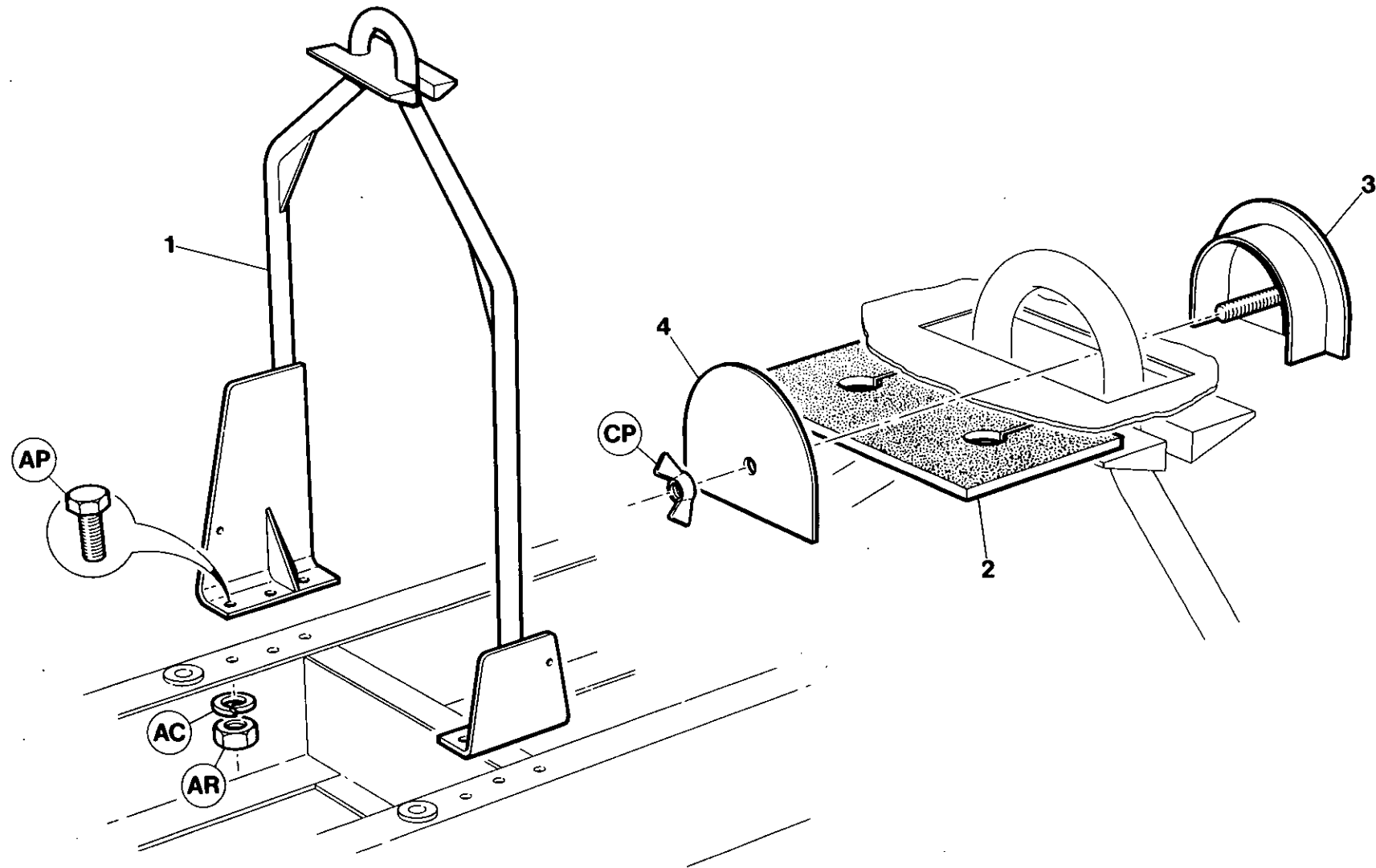
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92539964	1	Truck Frame					
2	92042621	1	Undertray					
3	92042639	1	Undertray					
4	92656966	4	Stud					
		"						



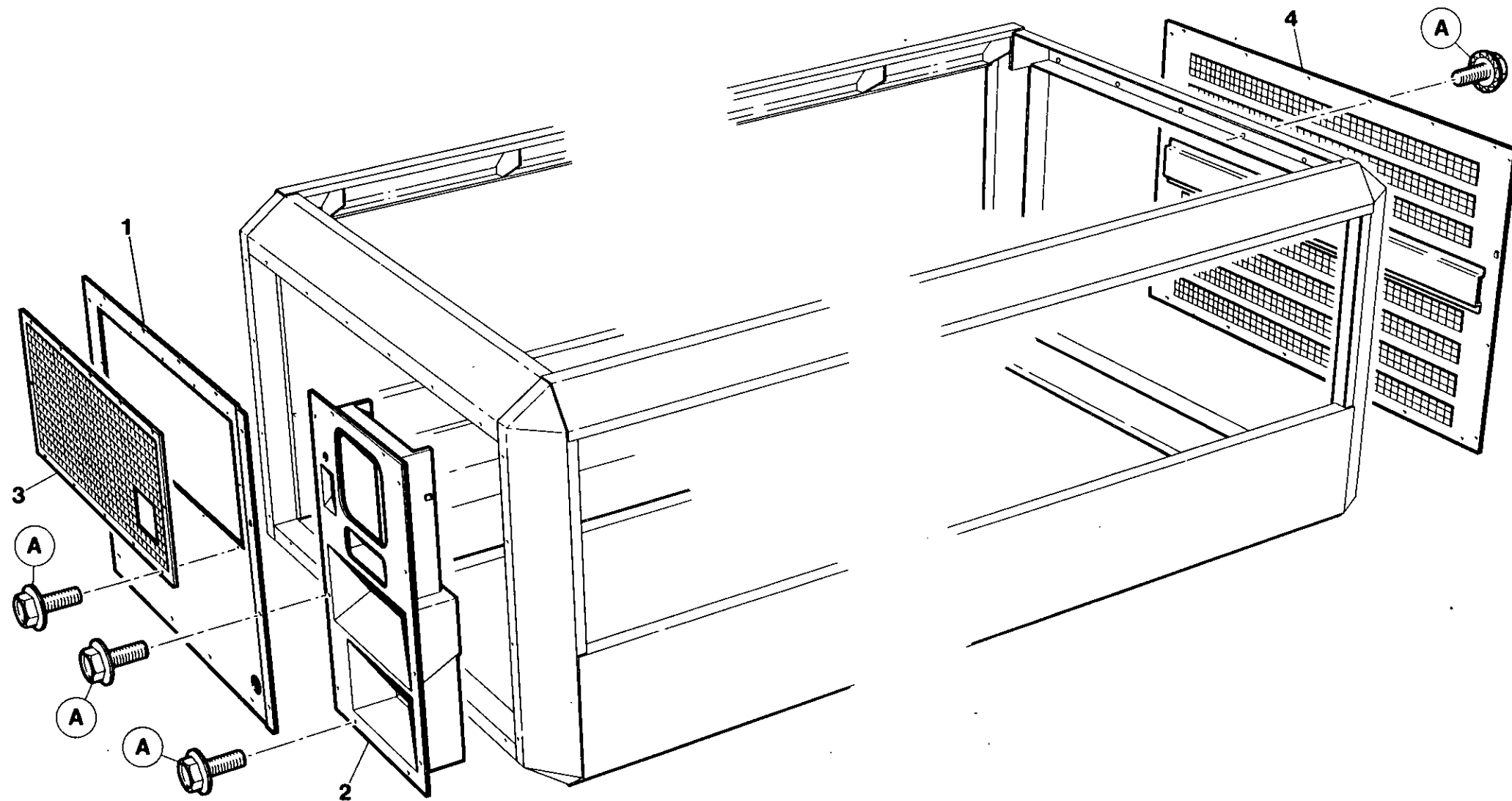
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92546555	1	Frame					
2	92546910	2	Support					
3	92546902	1	Support					
4	92058429	1	Plate Load Spreader					



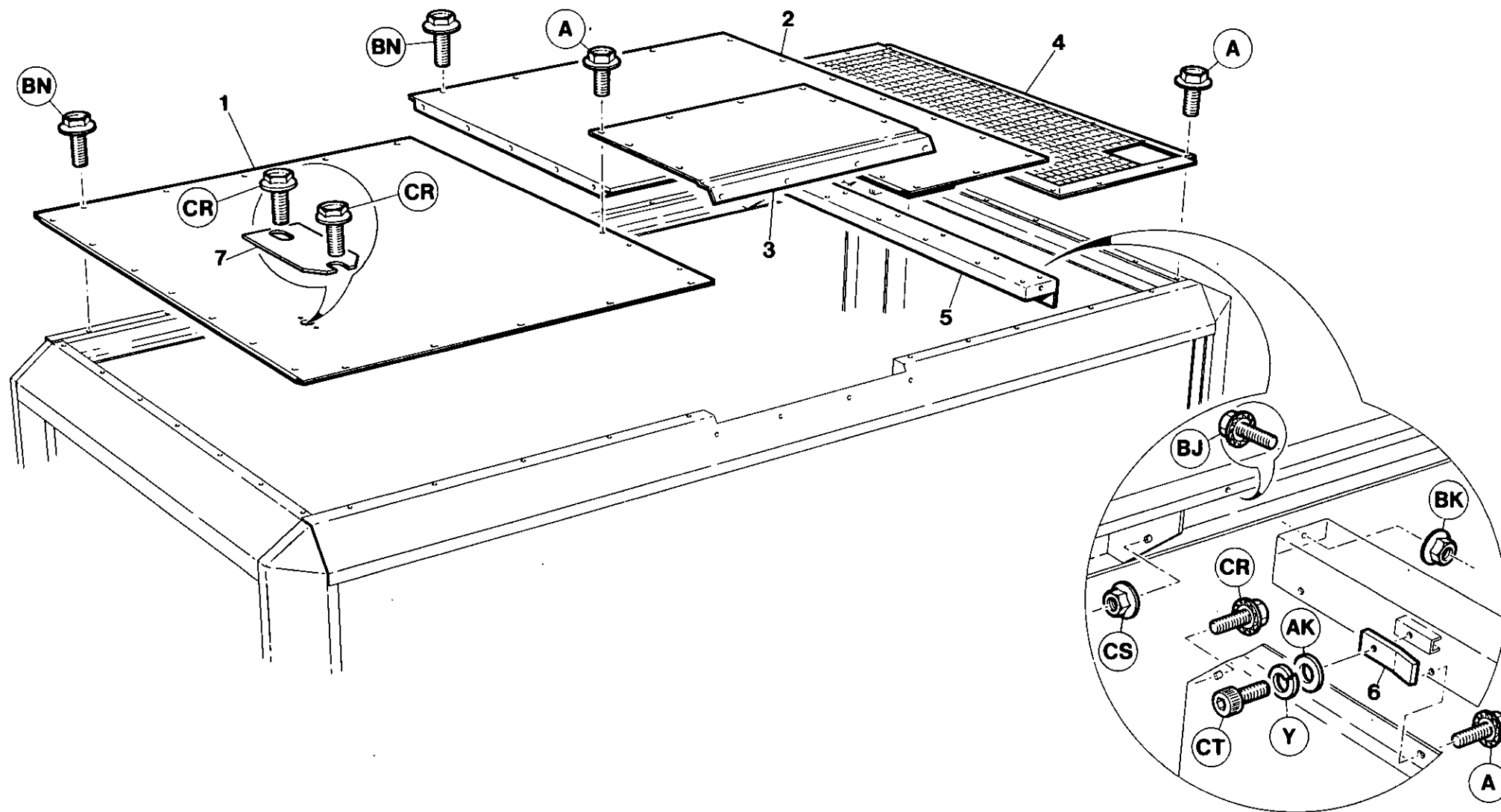
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92533405	1	Lower Side Panel L.H.					
2	92533413	1	Lower Side Panel R.H.					
3	92062009	2	End Cap Bottom					



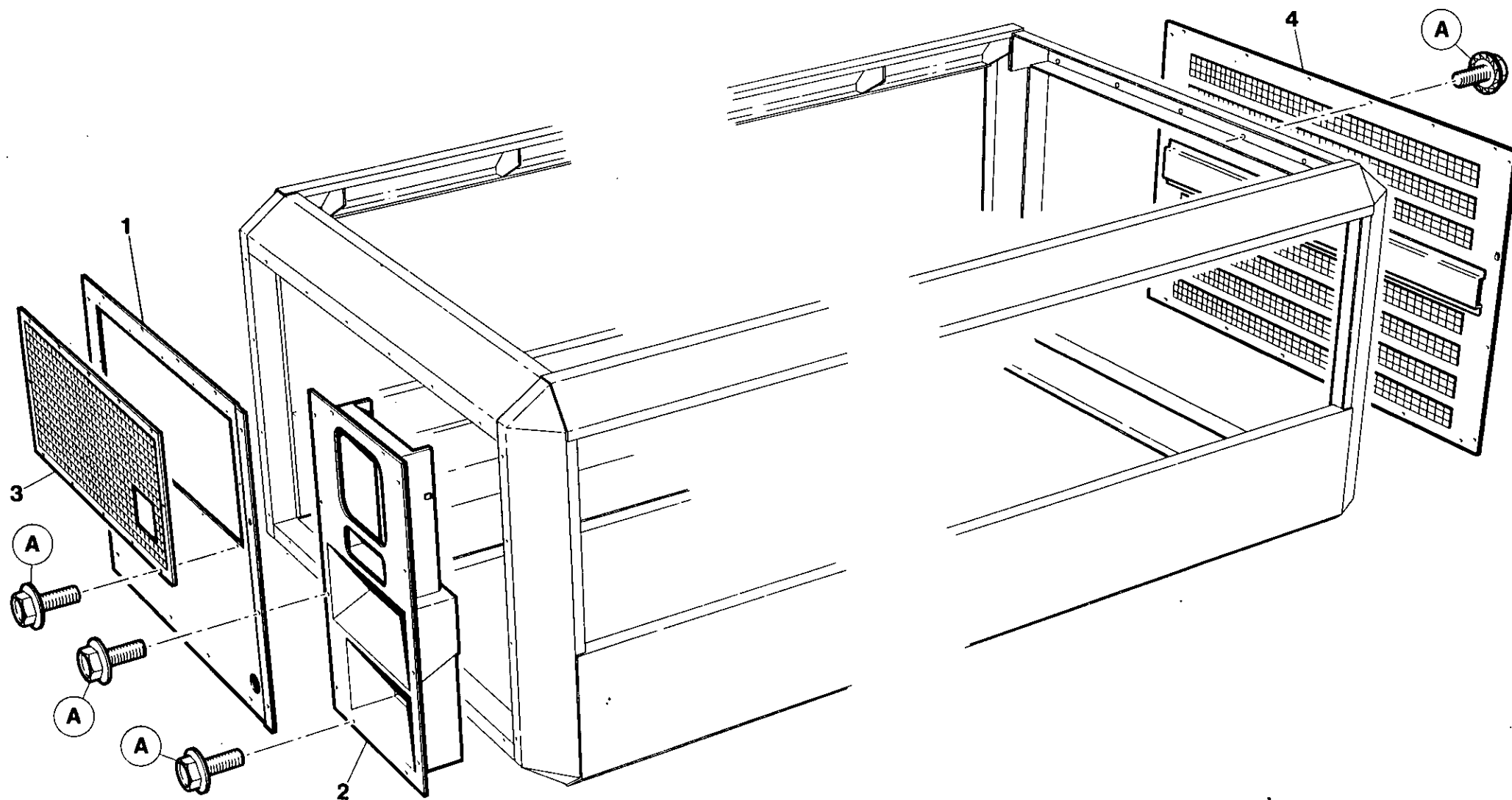
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية
1	92536747	1	Lifting Bail					
2	92049105	1	Pad					
3	92549153	1	Cover					
4	92549161	1	Clamp Plate					



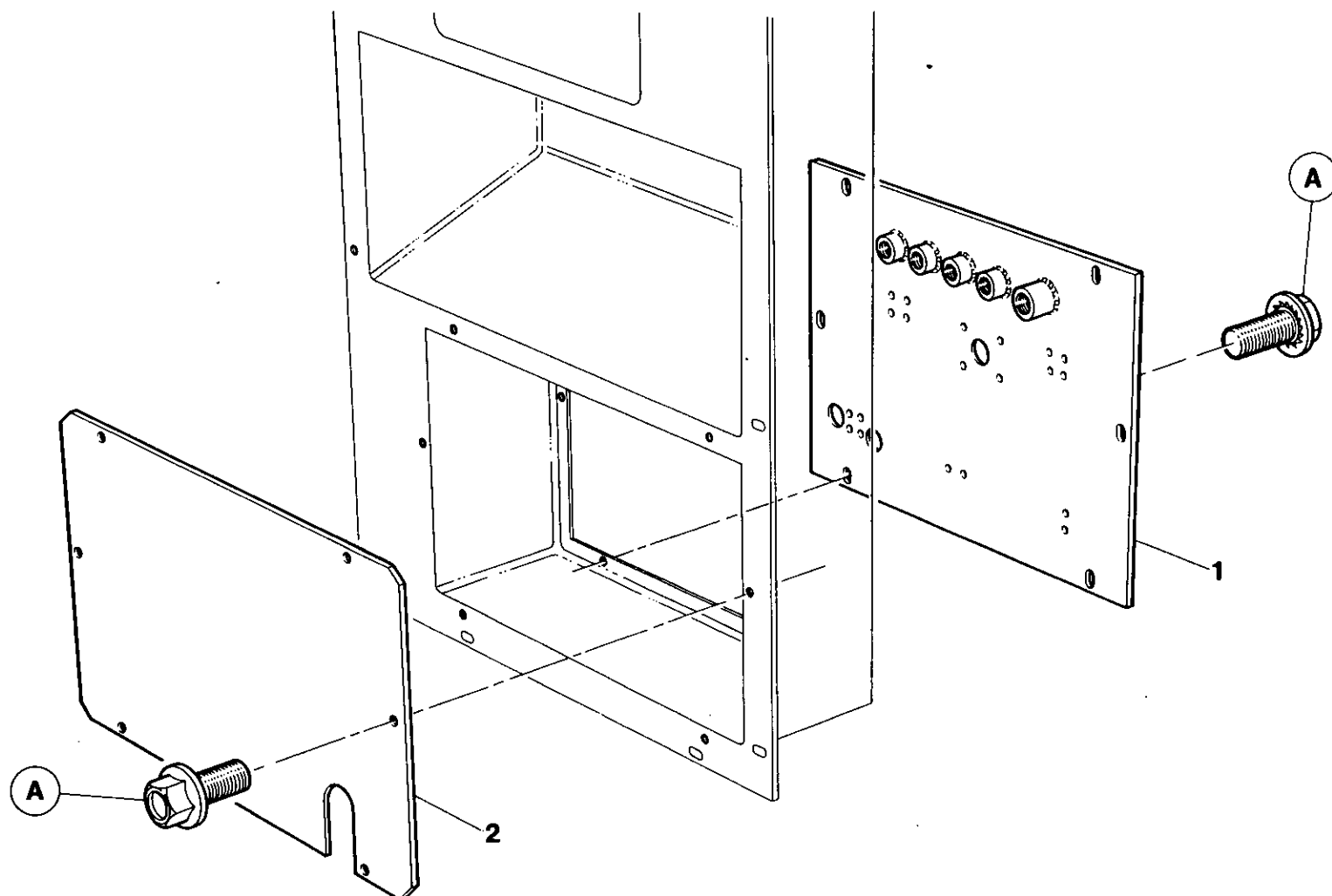
Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92062066	1	Upper Side Panel L.H.					
2	92062058	1	Upper Side Panel R.H.					
3	92061993	4	Corner					
4	92061985	2	End Cap Top					



Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92536820	1	Roof Front					
2	92536754	1	Roof Middle					
3	92064526	1	Access Panel					
4	92666049	1	Grill					
5	92065432	1	Beam					
6	92517762	2	Clamp					
7	92549146	1	Cover					



Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92540228	1	End Panel Front L.H.					
2	92540541	1	End Panel Front R.H.					
3	92540236	1	Grille					
4	92536606	1	End Panel Rear					



Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
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1	92547728	1	Mounting Panel					
2	92547710	1	Access Panel					

SUB ASSEMBLY

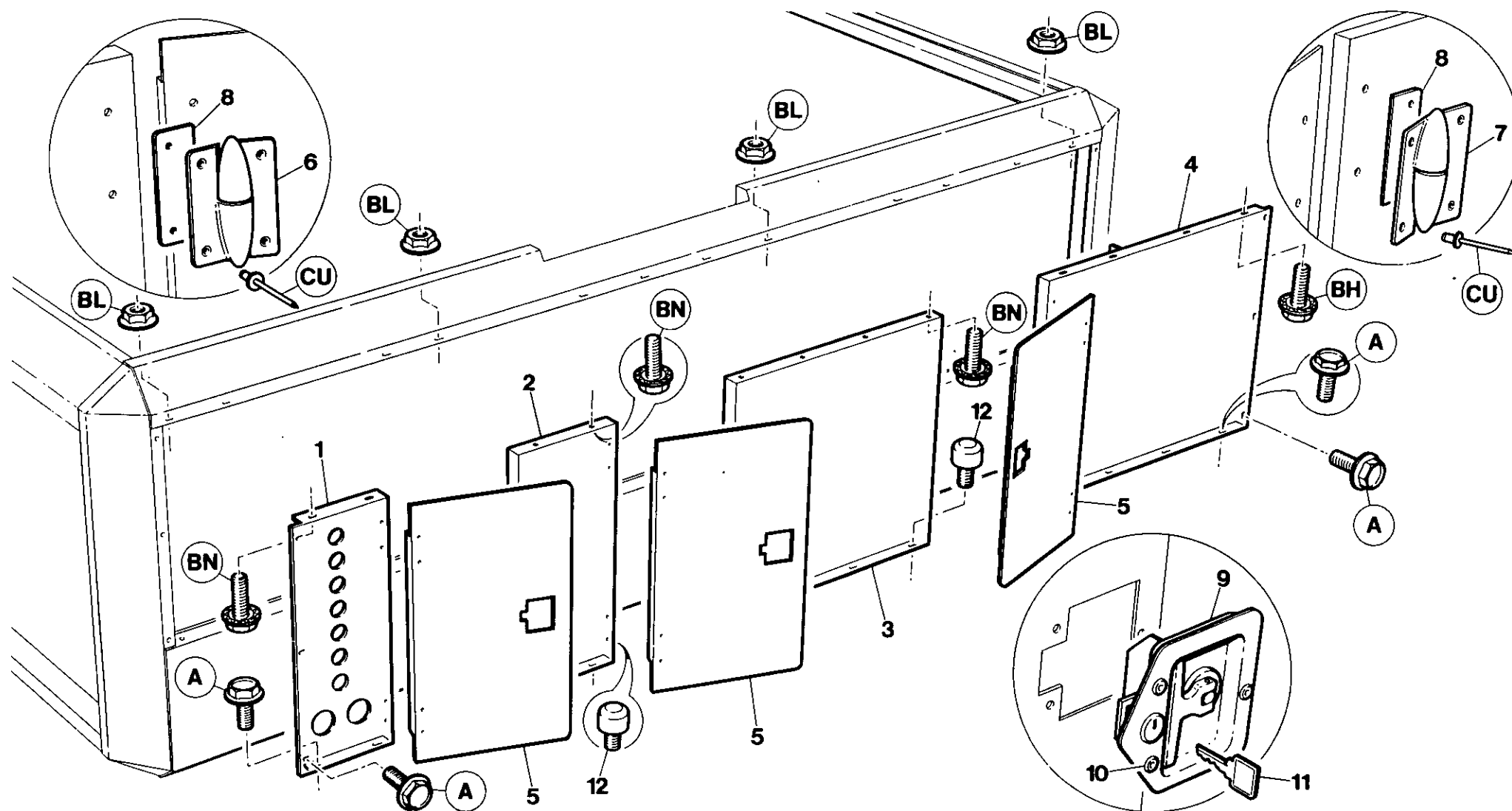
SOUS ENSEMBLE

SEKUNDÄRE
UNTERGRUPPEN

SOTTOGRUPPI

SUBCONJUNTOS

المجموعة الفرعية :



7.7.20

INGERSOLL-RAND

Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92657204	1	Side Panel Front					
2	92549476	1	Door Pillar					
3	92533504	1	Centre Panel					
4	92533496	2	Side Panel					
5	92540277	3	Door					
6	92540699	4	Hinge L.H.					
7	92540285	2	Hinge R.H.					
8	92540582	6	Spacer					
9	35279108	3	Latch					
10	02664929	9	Rivet					
11	92094358	3	Key					
12	92035187	6	Pin					

SUB ASSEMBLY

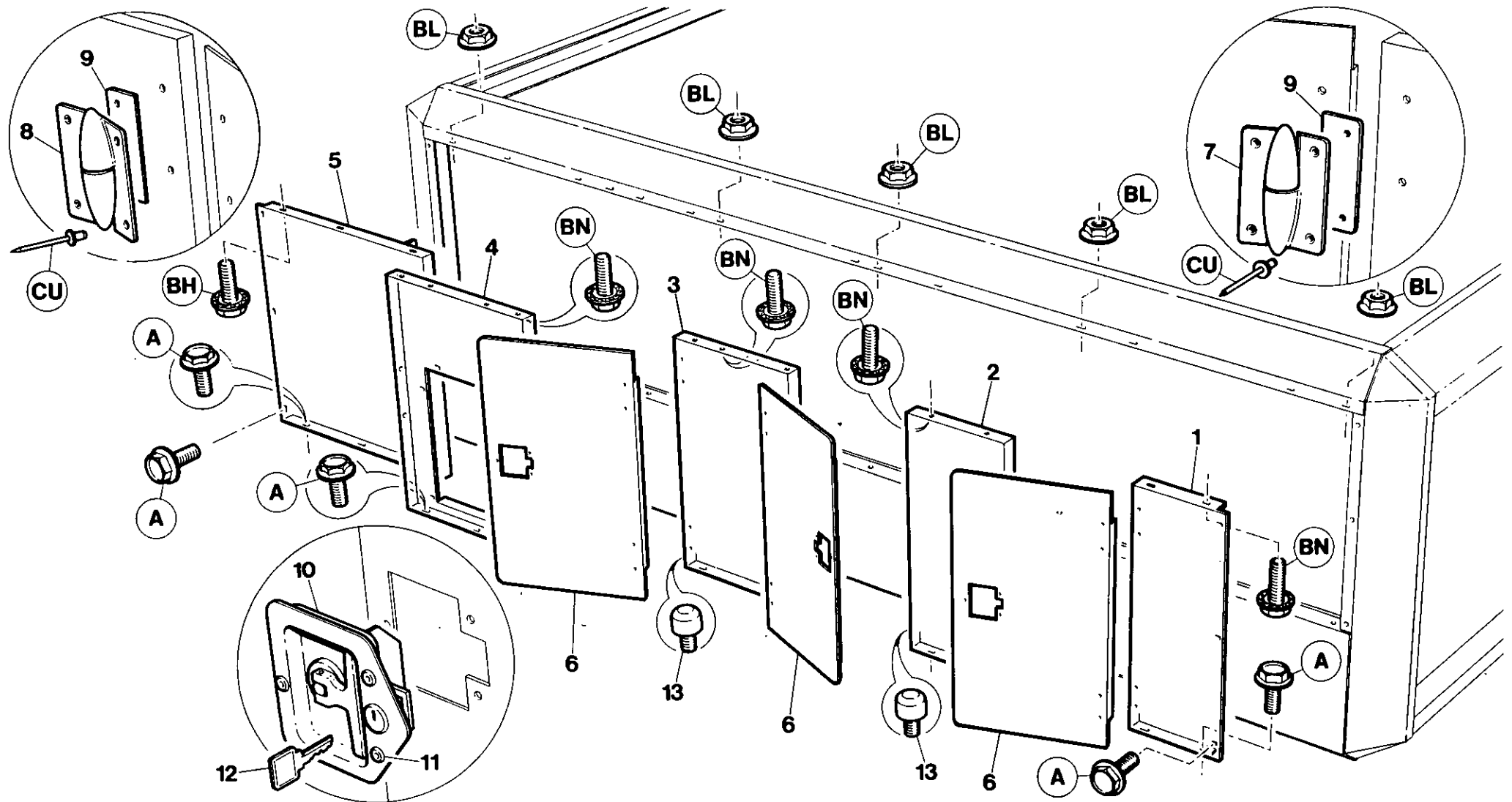
SOUS ENSEMBLE

SEKUNDÄRE
UNTERGRUPPEN

SOTTOGRUPPI

SUBCONJUNTOS

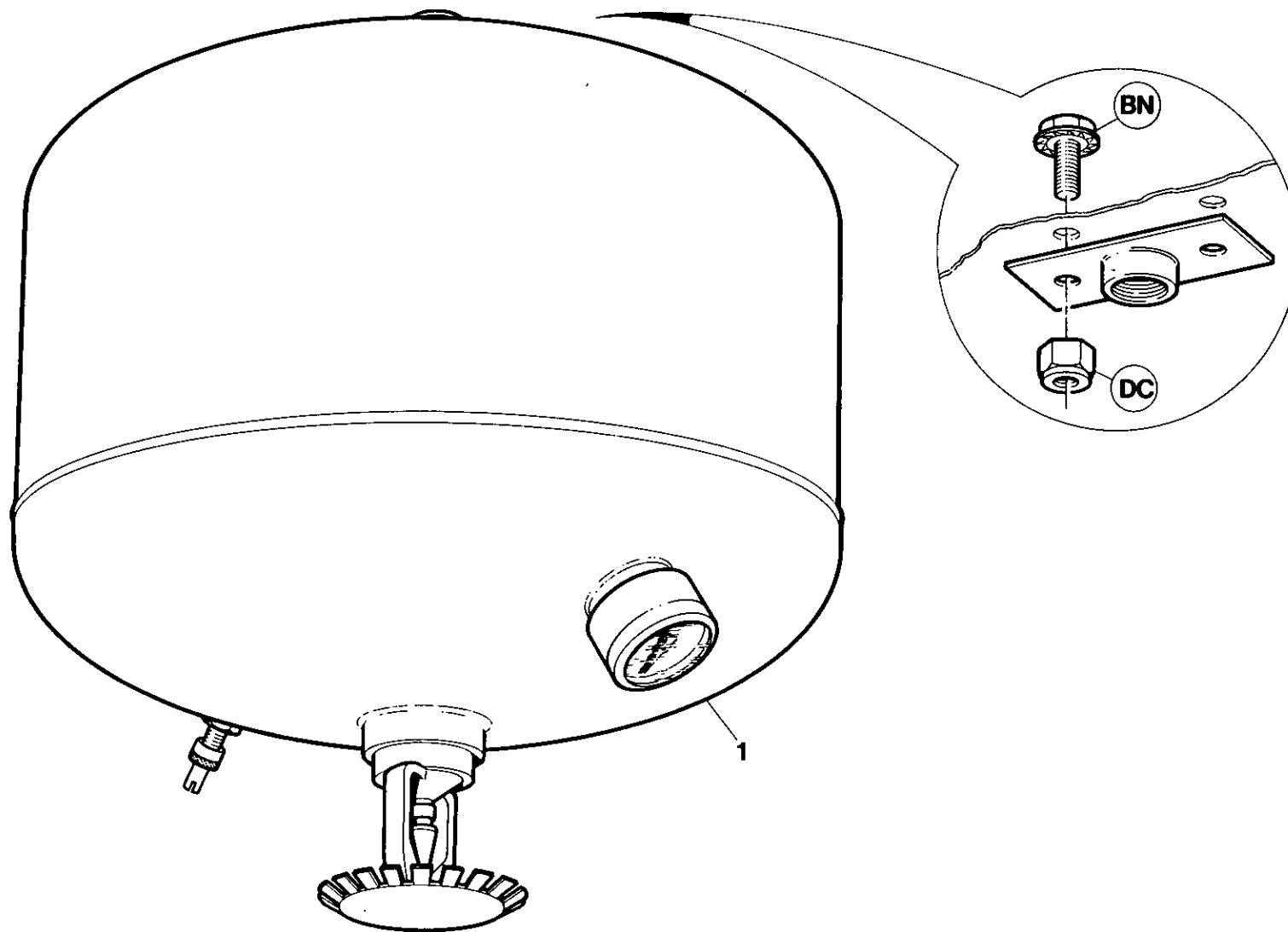
المجموعة الفرعية



7.7.22

INGERSOLL-RAND

Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
1	92549484	1	Side Panel Front					
2	92549476	1	Door Pillar					
3	92540293	1	Centre Panel					
4	92540566	1	Side Panel Fuel Filler					
5	92065267	4	Side Panel					
6	92540277	3	Door					
7	92540285	4	Hinge R.H.					
8	92540699	2	Hinge L.H.					
9	92540582	6	Spacer					
10	35279108	3	Latch					
11	92664929	9	Rivet					
12	92094358	3	Key					
13	92035187	4	Pin					



Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
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1	92548833	1	Fire Extinguisher					
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Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
(1-30)	92540368	1	External Decal Set					
1	92548684	1	I-R. Specification					
2	92548692	1	Warning Restart					
3	92548700	1	Operating Instructions					
4	92548718	1	Daily Service Routine					
5	92548726	1	Fill Radiator Here					
6	92548734	2	Radiator Filler					
7	92548742	1	Fuel Filler					
8	92548759	1	Water Separator Drain					
9	92548767	1	Engine Oil Drain					
10	92548775	1	Air Start Drain					
11	92548783	1	Air Start Receiver					
12	92548791	1	Radiator Drain					
13	92548809	1	Oil Drain					
14	92548817	1	Yellow Alert					
15	92548825	1	Flame Arrestor					
16	92657386	1	Very Important					
17	92657394	1	Stop Reset					
18	92661669	1	Tell Tales					
19	92660943	1	Filter Indicators					
20	92660919	1	Overspeed Valve Reset					
21	92660927	1	Fuel Valve Reset					
22	92660935	1	Vibration Valve Reset					
23	92661958	1	Horn Stop					
24	92548817	1	Yellow Alert 24v					
25	92049337	1	Stripe LH					
26	92049345	1	Stripe RH					
27	92049436	1	HP 750 RH					
28	92049493	1	HP 750 LH					
29	92512581	3	IR Logo					
30	92512573	1	IR Logo					

Item	C.P.N.	Qty	SUB ASSEMBLY	SOUS ENSEMBLE	SEKUNDÄRE UNTERGRUPPEN	SOTTOGRUPPI	SUBCONJUNTOS	المجموعة الفرعية :
(1-7)	92540376	1	Internal Decal Set					
1	92657808	1	Pneumatic Control System					
2	92662139	1	Oil Level					
3	92660950	1	Oil Filler					
4	92660968	1	Oil Dipstick					
5	92660976	1	Safety Circuit Reset					
6	92548817	1	Yellow Alert Connection 24v					
7	92543734	1	Radiator Filler					

Item	C.P.N.	Qty	FASTENERS
A	92368687		M6 x 12 Taptite Screw
B	92367663		M16 x 35 Setscrew
C	92359371		M16 Lockwasher
D	92398569		M6 x 65 Bolt
E	92311695		M16 Locknut
F	90103185		M12 x 30 Setscrew
G	90103854		M12 Nut
H	92304682		M12 Lockwasher
I	92329341		Washer M12
J	92304401		M10 x 25 Setscrew
K	95081857		3/8 dia. Spring Washer
L	95214987		5/8 x 1 1/4 Setscrew
M	95081790		5/8 Lockwasher
N	92311703		M16 x 100 Bolt
O	90103839		M16 Nut
P	92271667		3/4 Nut
Q	92359363		Washer M16
R	90141078		M8 x 25 Setscrew
S	92304666		M8 Lockwasher
T	95470993		3/8 Bolt
U	92273226		5/16 Nut
V	95245288		7/16—20 UNF Nut
W	92341973		M6 x 25 Setscrew
X	92304500		M6 Nut
Y	92304674		M10 Lockwasher
Z	95035481		3/8 x 1" UNC Setscrew
AA	92311703		M16 x 100 Bolt
AB	92341239		M20 x 40 Setscrew
AC	92391374		M20 Lockwasher
AD	92280940		M16 x 40 Setscrew
AE	92280981		M10 x 30 Setscrew
AF	92304526		M10 Nut
AG	92329309		M10 x 35 Setscrew
AH	92304567		M10 Locknut
AI	35294578		Locknut M24
AJ	92304419		M10 x 40 Setscrew
AK	92304617		M10 Washer
AL	92304575		M12 Locknut
AM	92398171		M12 x 75 Bolt
AN	92304435		M12 x 25 Setscrew
AO	92304625		M12 Washer
AP	35272558		M20 x 45 Setscrew
AQ	92391382		M20 Washer
AR	92391366		M20 Nut
AS	92081470		M16 x 30 Setscrew

Item	C.P.N.	Qty	FASTENERS
AT	92329283		M10 Washer
AU	92304427		M10 x 50 Setscrew
AV	92367655		M12 x 90 Bolt
AW	92304484		M6 x 20 Setscrew
AX	92341981		M6 Washer
AY	92421411		M8 x 25 Capscrew
AZ	92304518		M8 Nut
BA	92304609		M8 Washer
BB	92421403		M8 x 20 Capscrew
BC	92304658		M6 Lockwasher
BD	92304344		M8 x 20 Setscrew
BE	92304559		M8 Nut
BF	92179043		M6 x 25 Screw
BG	35279025		M8 x 20 Screw
BH	35300771		M6 x 20 Screw
BI	92101112		M8 x 25 Screw
BJ	92398130		M8 x 20 Screw
BK	92398114		M8 Nut
BL	92398106		M6 Nut Whitite
BM	92304591		M6 Washer
BN	92398122		M6 x 20 Screw
BO	92398627		M12 x 30 Screw
BP	92473594		M10 Nut
BQ	35273416		M8 x 25 Capscrew
BR	92479963		M5 x 20 Pan Head Screw
BS	92304641		M5 Lockwasher
BT	92304492		M5 Nut
BU	92304583		M5 Washer
BV	30345508		Washer
BW	95214938		5/16" x 1" Setscrew
BX	92472638		M10 x 20 Screw
BY	95264149		3/8" UNC x 2" Capscrew
BZ	35299353		M10 x 60 Capscrew sk.t.
CA	35271154		M10 x 30 Capscrew
CB	92280973		M12 x 35 Setscrew
CC	92340421		M4 x 12 Setscrew
CD	92472935		M10 x 60 Bolt
CE	35295013		M10 x 70 Bolt
CF	92398643		N12 Nut Whitite
CG	92280973		M12 x Setscrew
CH	92304443		M12 x 40 Screw
CI	92304450		M12 x 50 Setscrew
CJ	92304682		M12 Lockwasher
CK	92465590		M10 x 25 Skt. Head

Item	C.P.N.	Qty	FASTENERS
CL	92040823		M16 x 130 Setscrew
CM	95251138		3/8 x 1-1/4 Unc Setscrew
CN	92488733		M8 x 70 Bolt
CO	92274828		1/4 Nut
CP	92148659		M6 Wingnut
CQ	92472679		M5 x 12 Setscrew
CR	92184811		M6 x 12 Screw
CS	92398106		M6 Nut
CT	92421460		M10 x 20 Capscrew
CU	95420451		3/16 x 5/8 Rivet
CV	92593734		3/18 Unc x 1½ Setscrew
CW	95215000		5/8" x 1½ Setscrew
CX	95251146		3/8 x 1½ Unc Setscrew
CY	95214995		5/8 x 11 x 1½ Unc Setscrew
CZ	92419282		M6 x 12 Setscrew
DA	92329275		M10 Lockwasher
DB	92421361		M6 x 40 Capscrew
DC	92304542		M6 Locknut
DD	92483478		M20 x 40 Setscrew
DE			M12 x 20 Whizlock Screw
DF	92441450		M6 x 15 Pozipan Taptite
DG	92281369		5/32 x 1/2 Rivet
DH			Avdel Lock
DI			Rivet
DJ	40014888		M8 x 60 Setscrew
DK	92421304		
DL	92515907		M5
DM	95325239		3/8" Unc. x 2" Screw
DN	95064671		5/16" Washer
DO	92304351		M8 x 30 Setscrew

Item	C.P.N.	Qty	RECOMMENDED SPARE PARTS AND MAINTENANCE/SERVICE KITS	PIECES DE RECHANGE RECOMMANDEES ET KITS D'ENTRETIEN	EMPFOHLENE ERSATZ-TEILE WARTUNGS- UND INSPEKTIONS-SATZE	SERIE DE RICAMBI CONSIGLIATI KIT DE SERVIZIO	REPUESTOS RECOMENDADOS Y KITS DE MANTENIMIENTO	قطع الغيار الموصى بها وصناديق أدوات الصيانة/ الخدمة
-	92668128	-	Basic Spares Set					
1	92666007	1	Gasket Set					
2	92035948	2	Element Air					
3	92035955	2	Element Air					
4	92071182	2	Element Oil					
5	92658095	1	Element Oil					
6	35289081	1	Element Fuel					
7	92546936	1	Drive Belt					
8	92651140	1	Short Term Spares Kit					
9	03698495	1	Tune Up Kit (Air Starter)					
-	92668136	-	Intermediate Spares Kit					
1	92668128	-	Basic Spares Set					
2	92504703	1	Cable Drive					
3	92120013	1	Fuel Filler Cap					
4	35359090	1	Regulator					
5	92062132	1	Oil Separator					
6	92095363	1	Oil Level Gauge					
7	92089093	1	Pressure Gauge					
8	35102441	1	Oil Temp. Valve					
9	35583210	1	Two-Way Valve					
10	35592534	1	Unloader Diaphragm					
11	92035898	1	Valve Blowdown					
12	92124692	3	Gauge Disch.Pressure					
13	92513183	1	Silencer Regulator					
14	92540269	1	Valve Stop					
15	92540251	1	Pressure Regulator					
16	92546779	1	Valve Fuel Shut-off					
17	92657675	1	Push Button					
18	92657667	1	Valve Poppet					
19	92657303	7	Indicator					
20	92089556	3	Silencer					

Item	C.P.N.	Qty	RECOMMENDED SPARE PARTS AND MAINTEN- ANCE/SERVICE KITS	PIECES DE RECHANGE RECOMMANDEES ET KITS D'ENTRETIEN	EMPFOHLENE ERSATZ- TEILE WARTUNGS- UND INSPEKTIONS-SATZE	SERIE DE RICAMBI CONSIGLIATI KIT DE SERVIZIO	REPUESTOS RECOMEN- DADOS Y KITS DE MANTENIMIENTO	قطع الغيار الموصى بها وصناديق أدوات الصيانة/الخدمة
-	92668144	-	Major Spares Set					
1	92668136	1	Intermediate Spares Set					
2	92544527	1	Gauge Water Temp.					
3	92278787	1	Tachometer					
4	92544279	1	Gauge Air End Temp.					
5	92657444	1	Valve Eng. Oil Press.					
6	92657410	1	Valve Waterloss					
7	92547777	1	Valve Check					
8	92661784	2	Service Gauge					
9	92347459	4	Hose Connection					
10	92546662	1	Connector					
11	92531490	1	Belt Tension Wheel					
12	92546688	2	Rubber Elbow					
13	92544253	1	Valve Gate					
14	92547736	1	Valve Pilot					
15	92544378	1	Gauge Exh. Temp.					
16	03604378	1	Lubricator					
17	03604428	1	Valve Check Relief					
18	03457280	1	Valve Check					
19	03517232	1	Valve Control					
20	35318161	1	Spring M.P.V.					
21	92049188	1	Valve Safety					
22	35804905	1	Gauge Fuel					
23	92062157	6	Mount					
24	92066208	1	Coupling					
25	35112333	1	Hose					
26	92071299	1	Air Cylinder					
27	92169630	1	Ball Joint					
28	03691102	1	Valve Relay					
-	92668151	-	Filter Service Kit					
1	92035948	2	Element Air					
2	92035955	2	Element Air					
3	92071182	2	Element Oil					
4	92658095	1	Element Oil					
5	35289081	1	Element Fuel					

Item	C.P.N.	Qty	RECOMMENDED SPARE PARTS AND MAINTEN- ANCE/SERVICE KITS	PIECES DE RECHANGE RECOMMANDEES ET KITS D'ENTRETIEN	EMPFOHLENE ERSATZ- TEILE WARTUNGS- UND INSPEKTIONS-SATZE	SERIE DE RICAMBI CONSIGLIATI KIT DE SERVIZIO	REPUESTOS RECOMEN- DADOS Y KITS DE MANTENIMIENTO	قطع الغيار الموصى بها وصناديق أدوات الصيانة/الخدمة
-	92666007	-	Gasket Set					
1	35572502	1	Gasket					
2	35518356	1	Gasket					
3	95358198	2	O-Ring					
4	35210087	1	Gasket					
5	35572494	1	Gasket Gear Case					
6	35575471	1	Gasket					
7	35279942	1	O-Ring					
8	95823688	2	O-Ring					
9	35192129	1	Gasket					
10	95765806	2	O-Ring					
11	35328244	1	Seal					
12	35328251	1	Gasket Piston Housing					
13	95214524	1	Gasket Ring					
14	30549919	1	Gasket					
15	92095413	2	O-Ring					
16	92095421	2	O-Ring					
17	92058544	1	Gasket Discharge Pipe					
18	35575570	1	Gasket					
19	35275908	1	Gasket					
20	92546530	1	Gasket					
21	35279942	1	O-Ring					
22	92546514	1	Gasket					
23	92095454	2	O-Ring					
24	92095462	2	O-Ring					
25	92058551	2	Gasket Separator					
26	95358032	1	O-Ring					
27	92517846	2	Gasket					