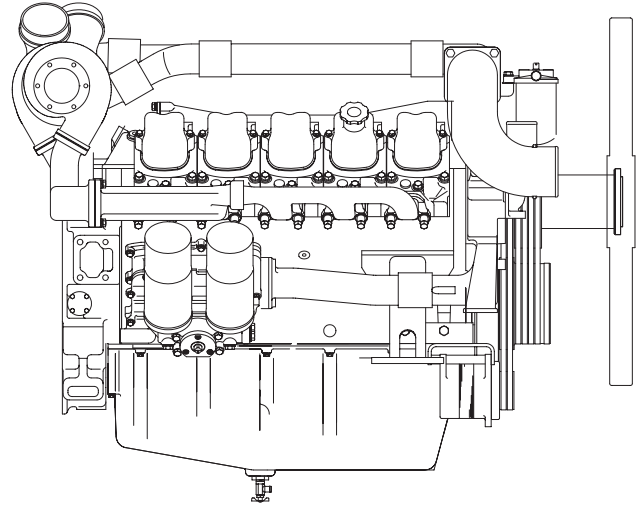


**OE4342**

**GENERAC<sup>®</sup>**  
POWER SYSTEMS, INC.



**18.0**

LITER

**D I E S E L**

**DAEWOO**  
***ENGINE***  
***PARTS***  
***MANUAL***

P.O. BOX 8 WAUKESHA WI 53187

PRINTED IN U.S.A.

ISSUED: 03/16/03



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## LEGEND

**"AR" AS REQUIRED  
(STD) STANDARD SIZE**

**"O.S." OVERSIZE**

**"U.S." UNDERSIZE**

### NOTICE!

**THE INFORMATION IN THIS MANUAL IS KNOWN TO BE ACCURATE AS OF THE DATE OF RELEASE SHOWN ON THE COVER. HOWEVER, ENGINEERING CHANGES CAN OCCUR WITHOUT NOTICE. TO OBTAIN THE PROPER PARTS, PLEASE BE SURE TO USE THE MODEL NUMBER OF THE UNIT BEING SERVICED WHEN ORDERING FROM THIS MANUAL.**

## 18.0L DIESEL QUICK REFERENCE GUIDE

### SPECIFICATIONS:

ENGINE TYPE	18.0 LITER <b>DAEWOO</b> DIESEL ENGINE
CRANKCASE OIL CAPACITY:	7.13 U.S. GALLONS (27 LITERS)
COOLING SYSTEM CAPACITY:	28.8 U.S. GALLONS (109 LITERS)
ENGINE:	8.9 U.S. GALLONS (34 LITERS)
RADIATOR:	19.8 U.S. GALLONS (75 LITERS)

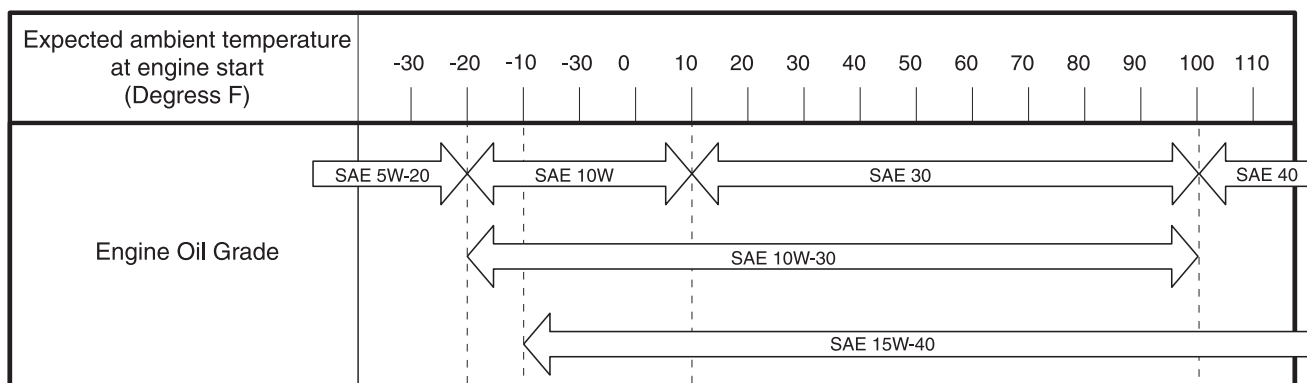
### RECOMMENDED FLUIDS

#### COOLANT:

USE A 50/50 MIXTURE OF LOW SILICATE ETHYLENE GLYCOL BASE ANTI-FREEZE AND SOFT WATER. (IF DESIRED, A HIGH QUALITY RUST INHIBITOR MAY BE ADDED TO THE RECOMMENDED COOLANT MIXTURE.) WHEN ADDING COOLANT, ALWAYS ADD THE RECOMMENDED 50/50 MIXTURE.

#### ENGINE OIL:

USE A HIGH QUALITY DETERGENT OIL HAVING AAPI CLASSIFICATION "FOR SERVICE CF OR HIGHER." THE SAE VISCOSITY RATING OF THE OIL SHOULD BE CAREFULLY SELECTED, BASED ON THE PREVAILING AMBIENT TEMPERATURE RANGE ANTICIPATED BEFORE THE NEXT OIL CHANGE. RECOMMENDED SAE VISCOSITY GRADES ARE AS FOLLOWS:



**NOTE: SAE 10W-30 recommended for all seasons.**

### QUICK REFERENCE ENGINE PARTS

ITEM (PAGE NO.)	PART NUMBER	DESCRIPTION	QTY
NOT SHOWN	XXXXXX	AIR CLEANER	2
1010 (PG 12)	0C46930174	FILTER ; BREATHER	1
1030 (PG 25)	0C46930269	CARTRIDGE ; OIL FILTER	2
1360 (PG 35)	0C46930357	BELT ; V-TYPE (SET OF 2)	2
1041 (PG 51)	0C46930450	ELEMENT ; FUEL FILTER	1
1170 (PG 53)	0C46930467	BELT ; V-TYPE (SET OF 2)	1

## 18.0L DIESEL SERVICE RECOMMENDATIONS

### 500 KW TO 2000 KW STANDBY DIESEL ENGINE DRIVEN GENERATOR SETS

Following is a recommended maintenance schedule for Generac standby diesel engine driven generator sets from 500 kW to 2000 kW in size. The established intervals in the schedule are the *maximum* recommended when the unit is used in an average service application. They will need to be decreased (performed more frequently) if the unit is used in a severe application. Use the unit hour meter or calendar time, whichever occurs first, from the previous maintenance interval to determine the next required maintenance interval.

#### Service Maintenance Interval Information:

The various service maintenance intervals are designated by interval numbers as follows:

- 1 An early inspection of the generator set to insure it is ready to operate when required and to identify any potential problem areas.

*Performed monthly or following each 10 hours of operation of the unit and requires approximately .5 man-hours per unit to complete.*

*This inspection may be performed by the end user providing the following safety steps are taken to prevent the engine from starting automatically without warning:*

**To prevent injury, perform the following steps in the order indicated before starting any maintenance:**

- **Disable the generator set from starting and/or connecting to the load by setting the control panel Auto-Off-Manual switch to the "OFF" position.**
- **Remove the control panel fuse.**
- **Turn off the battery charger.**
- **Remove the negative battery cable.**

**The battery charger must be turned off BEFORE removing the battery cable to prevent an over current condition from burning out sensitive control panel components and circuits.**

**Following all maintenance, reverse these steps to insure the unit is returned to standby setup for normal operation when required.**

- 2 A break-in service inspection of the generator set to insure it is ready to operate and carry the load when required, and to identify any potential problem areas.

*Performed **ONLY ONCE** following the first six months or the first 50 hours of operation after purchase of the unit and requires approximately 3.0 man-hours per unit to complete.*

*This inspection contains some maintenance tasks which require special tools, equipment, and/or knowledge to accomplish and should be performed only by an authorized Generac Service Dealer.*

- 3 An operational inspection of the generator set to insure it is ready to operate and carry the load when required, and to identify any potential problem areas.

*Performed semi-annually or following each 50 hours of operation of the unit and requires approximately 1.5 man-hours per unit to complete.*

*This inspection contains some maintenance tasks which require special tools, equipment, and/or knowledge to accomplish and should be performed only by an authorized Generac Service Dealer.*

- 4 A mid-level inspection of the generator set to insure it is ready to operate and carry the load when required, and to identify any potential problem areas.

*Performed annually or following each 100 hours of operation of the unit and requires approximately 4.0 man-hours per unit to complete.*

*This inspection contains some maintenance tasks which require special tools, equipment, and/or knowledge to accomplish and should be performed only by an authorized Generac Service Dealer.*

- 5 A comprehensive inspection of the generator set to insure it is properly serviced and ready to operate and carry the load when required, and to identify any potential problem areas.

*Performed biannually or following each 250 hours of operation of the unit and requires approximately 8.0 man-hours per unit to complete.*

*This inspection contains some maintenance tasks which require special tools, equipment, and/or knowledge to accomplish and should be performed only by an authorized Generac Service Dealer.*

**NOTE: Add 20% to all times for 12 cylinder or larger engines.**

**18.0L DIESEL SERVICE RECOMMENDATIONS**

**GENERAC POWER SYSTEMS, INC.**

**RECOMMENDED SCHEDULED MAINTENANCE PROGRAM**

SERVICE WORK TO BE PERFORMED BY FACTORY-TRAINED PERSONNEL ONLY.

**DEALER INFORMATION**

NAME: \_\_\_\_\_  
ACCOUNT #: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
PHONE: \_\_\_\_\_  
TECHNICIAN: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

**OWNER INFORMATION**

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
SITE: \_\_\_\_\_  
PHONE: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_

PURCHASE DATE: \_\_\_\_\_ START-UP DATE: \_\_\_\_\_

APPLICATION:    \_\_\_ Standby Power        \_\_\_ Prime Power        \_\_\_ Rental/Trailerized

**GENERATOR & TRANSFER SWITCH INFORMATION**

**GENERATOR**

MODEL NUMBER: \_\_\_\_\_  
SERIAL NUMBER: \_\_\_\_\_

**TRANSFER SWITCH**

MODEL NUMBER: \_\_\_\_\_  
SERIAL NUMBER: \_\_\_\_\_

HOOR METER READING *at Completion of the Inspection*: \_\_\_\_\_

**▲ WARNING! ▲**

To prevent injury, perform the following steps in the order indicated before starting any maintenance:

- Disable the generator set from starting and/or connecting to the load by setting the control panel Auto-Off-Manual switch to the "OFF" position.
- Remove the control panel fuse.
- Turn off the battery charger.
- Remove the negative battery cable.

**NOTE:**

*The battery charger must be turned off BEFORE removing the battery cable to prevent an over current condition from burning out sensitive control panel components and circuits.*

Following all maintenance, reverse these steps to insure the unit is returned to standby setup for normal operation when required.


















## 18.0L DIESEL SERVICE RECOMMENDATIONS

Maintenance Tasks	Level 1		Level 2		Level 3		Level 4		Level 5	
	Recom- mended to be done monthly/ 10 hrs.	Task Comp. (Date- Initials)	Required to be done 6 months/ Break-in 50 hrs.	Task Comp. (Date- Initials)	Required to be done Semi- annually/ 50 hrs.	Task Comp. (Date- Initials)	Required to be done Annually/ 100 hrs.	Task Comp. (Date- Initials)	Required to be done Bi- annually/ 250 hrs.	Task Comp. (Date- Initials)
1. Disable the unit from operating per the first page warning.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
2. Check the engine oil level. Adjust as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
3. Check the engine coolant level. Adjust as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
4. Check the engine coolant thermal protection level. Correct as necessary.							<input type="checkbox"/>		<input type="checkbox"/>	
5. Check the diesel fuel supply level. Fill as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
6. Drain water and sediment from the diesel fuel tank.			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
7. Drain water from the fuel line water separator if the unit is equipped with one.			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
8. Check the air inlets and outlets for debris. Clean as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
9. Check the battery electrolyte level if accessible. Adjust as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
10. Check the battery posts, cables, and charger for loose connections, corrosion, and proper operation. Correct as necessary.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
11. Check the unit wiring for loose connections, corrosion, and damage. Correct as necessary.							<input type="checkbox"/>		<input type="checkbox"/>	

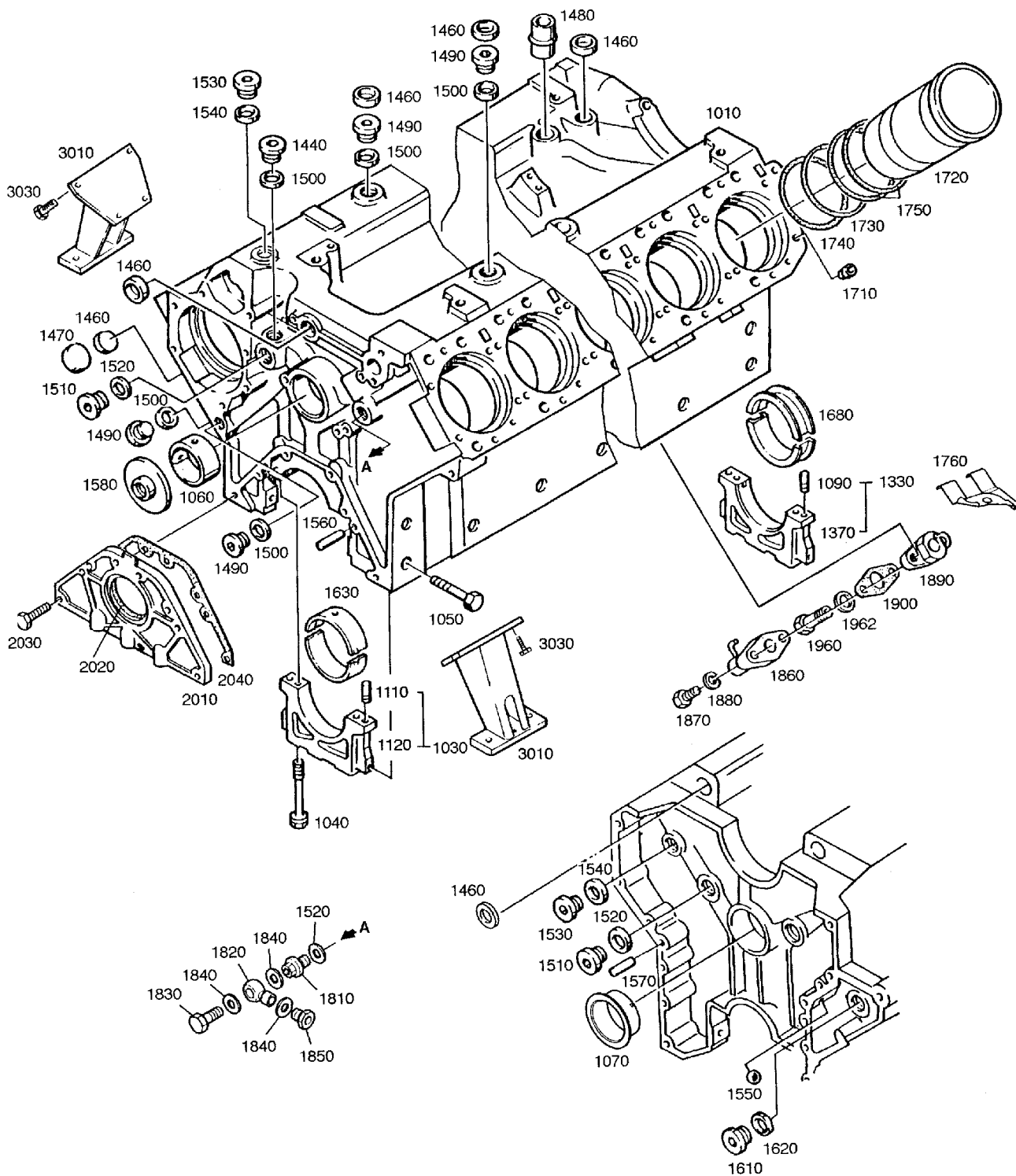
## 18.0L DIESEL SERVICE RECOMMENDATIONS

Maintenance Tasks	Level 1		Level 2		Level 3		Level 4		Level 5	
	Recommended to be done monthly/ 10 hrs.	Task Comp. (Date-Initials)	Required to be done 6 months/ Break-in 50 hrs.	Task Comp. (Date-Initials)	Required to be done Semi-annually/ 50 hrs.	Task Comp. (Date-Initials)	Required to be done Annually/ 100 hrs.	Task Comp. (Date-Initials)	Required to be done Bi-annually/ 250 hrs.	Task Comp. (Date-Initials)
12. Check the engine accessory drive belts for wear, weather cracking, and damage. Replace as necessary.							●		●	
13. Check the engine valve clearance. Adjust as necessary.							●		●	
14. Visually inspect the unit looking for leaks, wear or damage, loose connections or components, and corrosion. Correct as necessary.	●		●		●		●		●	
15. Test the engine and transfer switch safety devices. Correct and/or adjust as necessary.							●		●	
16. Initiate an automatic start and transfer of the unit to site load and exercise it for at least 1 hour looking for leaks, loose connections or components, and abnormal operating conditions. Correct as necessary.			●		●					

## 18.0L DIESEL SERVICE RECOMMENDATIONS

Maintenance Tasks	Level 1	Level 2	Level 3	Level 4	Level 5					
Tasks	Recom- mended to be done monthly/ 10 hrs.	Task Comp. (Date- Initials)	Required to be done 6 months/ Break-in 50 hrs.	Task Comp. (Date- Initials)	Required to be done Semi- annually/ 50 hrs.	Task Comp. (Date- Initials)	Required to be done Annually/ 100 hrs.	Task Comp. (Date- Initials)	Required to be done Bi- annually/ 250 hrs.	Task Comp. (Date- Initials)
17. Start and exercise the unit at full rated load (use a load bank if the site load is not enough) for at least 2 hours looking for leaks, loose connections or components, and abnormal operating conditions. Correct as necessary.										
18. Perform an engine oil analysis (send a sample to a lab for results). Change the engine oil and filters if the analysis results indicate this is required.										
19. Change the engine oil.										
20. Replace the engine oil filter(s).										
21. Replace engine fuel filter(s) and re-prime the fuel system.										
22. Replace the engine air filter(s).										
23. Perform a 5 minute no-load operational run of the unit looking for any post service problems.										
24. Return the unit to standby setup for operation when required.										

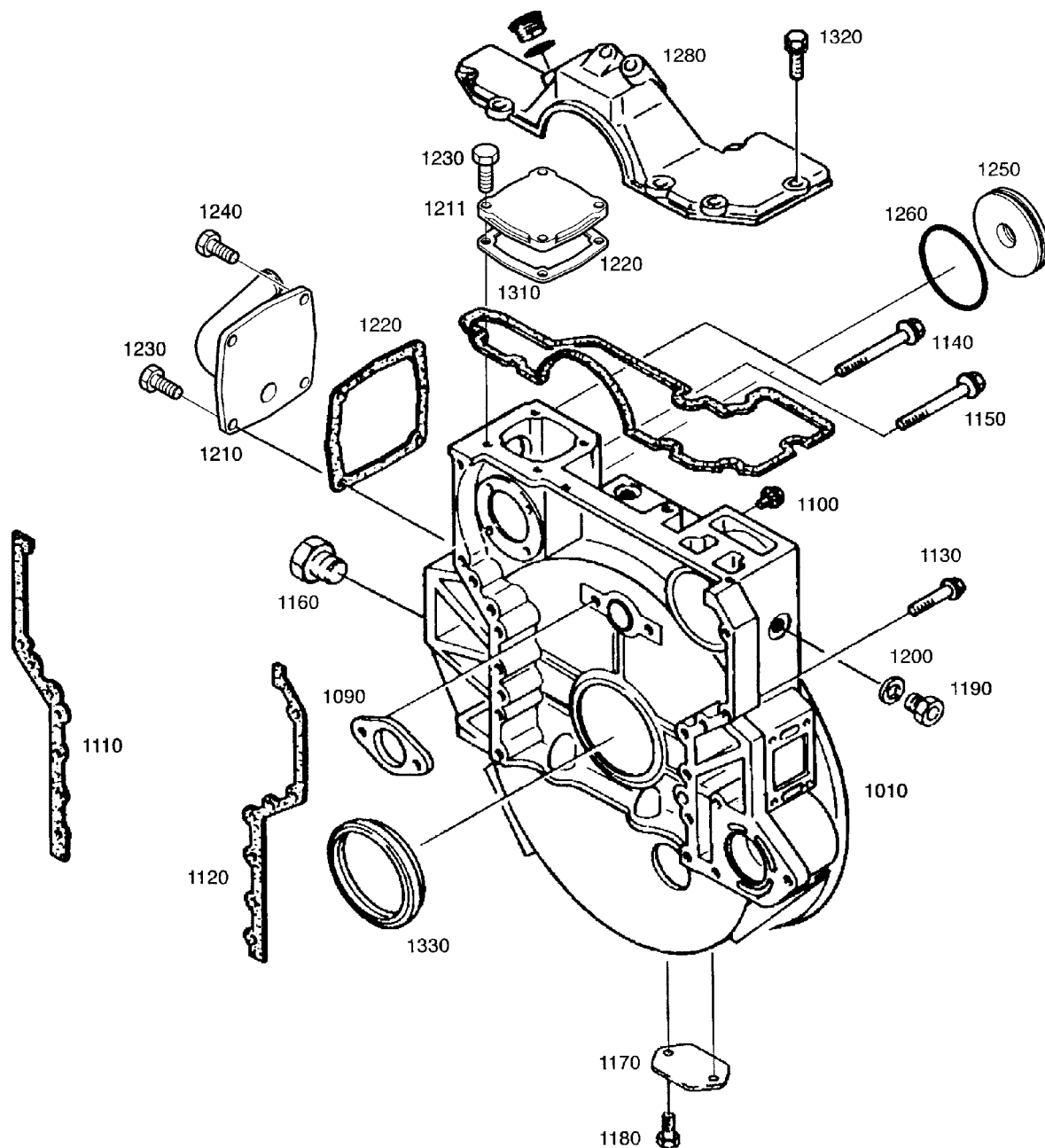
# 18.0L DIESEL — CYLINDER BLOCK



## 18.0L DIESEL — CYLINDER BLOCK

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900100	CYLINDER BLOCK ASY (ALTV)	1
1020	0D86900101	CYLINDER BLOCK ASY	1
1310	0D86900102	CYLINDER BLOCK ASY	1
1090	0C46930104	PIN: DOWEL	2
1110	0C46930105	PIN DOWEL (8H8X18)	2
1040	0C46930106	BOLT: COLLARED HEX	12
1050	0C46930107	BOLT HEX: M12X1.5X85	12
1060	0C46930108	BUSH: CAMSHAFT	5
1070	0C46930109	BUSH: CAMSHAFT	1
1460	0C46930110	COVER: DUST	10
1470	0C46930111	COVER: DUST	3
1480	0C46930112	PIPE: OIL	1
1490	0C46930113	SCREW: PLUG	5
1500	0C46930114	RING: SEAL A26X31	5
1510	0C46930115	SCREW: PLUG	4
1520	0C46930116	RING: SEAL A30X36	2
1530	0C46930117	SCREW: PLUG	1
1540	0C46930118	RING: SEAL A18X24	1
1550	0C46930119	BALL: STEEL 1/4 KS-B2001	1
1560	0C46930120	PIN: DOWEL (8M6X24)	2
1570	0C46930121	PIN: DOWEL (16H8X24)	2
1580	0C46930122	COVER: CORE HOLE	1
1610	0C27100117	SCREW: PLUG	1
1620	0C27100400	RING: SEAL A14X20	1
1630	0C46930123	BEARING: MAIN	5
1680	0C46930124	BEARING: THRUST	1
1710	0C46930125	SPACER	20
1720	0C46930126	LINER: CYLINDER	10
1730	0C46930127	O-RING (LOWER)	10
1740	0C46930128	O-RING (LOWER)	10
1750	0C46930129	O-RING (UPPER)	20
1760	0C46930130	BAFFLE: BREATHER	1
1810	0C46930138	ADAPTER	1
1820	0C46930139	UNION: BANJO	1
1830	0C46930140	SCREW: HOLLOW M18X1.5	1
1840	0C46930118	RING: SEAL A18X24	3
1850	0C46930143	NIPPLE	1
1860	0C46930131	NOZZLE: OIL SPRAY	10
1870	0C46930132	BOLT: HEX, M6X28	20
1880	0C46930133	WASHER: SPRING	20
1890	0C46930134	FLANGE ASY	10
1900	0C46930135	GASKET	10
1960	0C46930136	SCREW: HOLLOW	10
1962	0C27100400	RING: SEAL A14X20	10
2010	0C46930144	HOLDER: OIL SEAL	1
2020	0C46930145	SEAL: OIL (FRONT)	1
2050	0C46930146	BOLT ASY M8X28	6

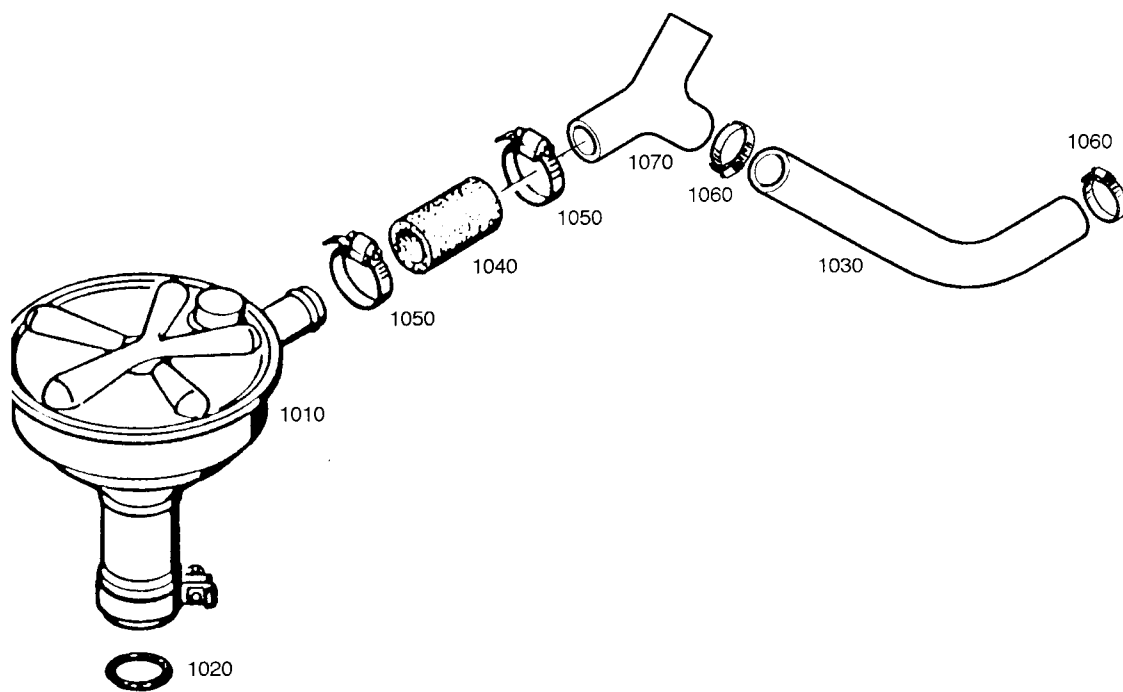
# 18.0L DIESEL — FLYWHEEL HOUSING



**18.0L DIESEL — FLYWHEEL HOUSING**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930150	HOUSING: FLYWHEEL	1
1090	0C46930151	WASHER: THRUST	1
1100	0C46930152	BOLT: COLLARED HEX	2
1110	0C46930153	GASKET: FLYWHEEL HOUSING	1
1120	0C46930154	GASKET: FLYWHEEL HOUSING	1
1130	0C46930155	BOLT: FLYWHEEL HOUSING	10
1140	0C46930156	BOLT: FLYWHEEL HOUSING	1
1050	0C46930157	BOLT: FLYWHEEL HOUSING	1
1160	0C27100170	CAP: RUBBER	1
1170	0C46930159	COVER: TIMING POINTER HOLE	1
1180	0C46930160	BOLT ASY M8X12	2
1190	0C46930161	SCREW: PLUG	1
1200	0C46930162	RING: SEAL	1
1210	0C46930163	COVER: FLYWHEEL HOUSING	1
1211	0C46930164	COVER	1
1220	0C46930165	GASKET	2
1230	0C46930166	BOLT ASY M8X30	7
1240	0C46930167	HEX, BOLT ASY 2M8X25	1
1250	0C46930168	COVER: FLYWHEEL HOUSING	1
1260	0C46930169	O-RING	1
1280	0C46930170	COVER: FLYWHEEL HOUSING	1
1310	0C46930171	GASKET: FLYWHEEL HOUSING	1
1320	0C46930166	BOLT ASY M8X30	8
1330	0C46930172	SEAL: OIL (REAR)	1
1340	0C46930173	SENSOR: TACHO	1

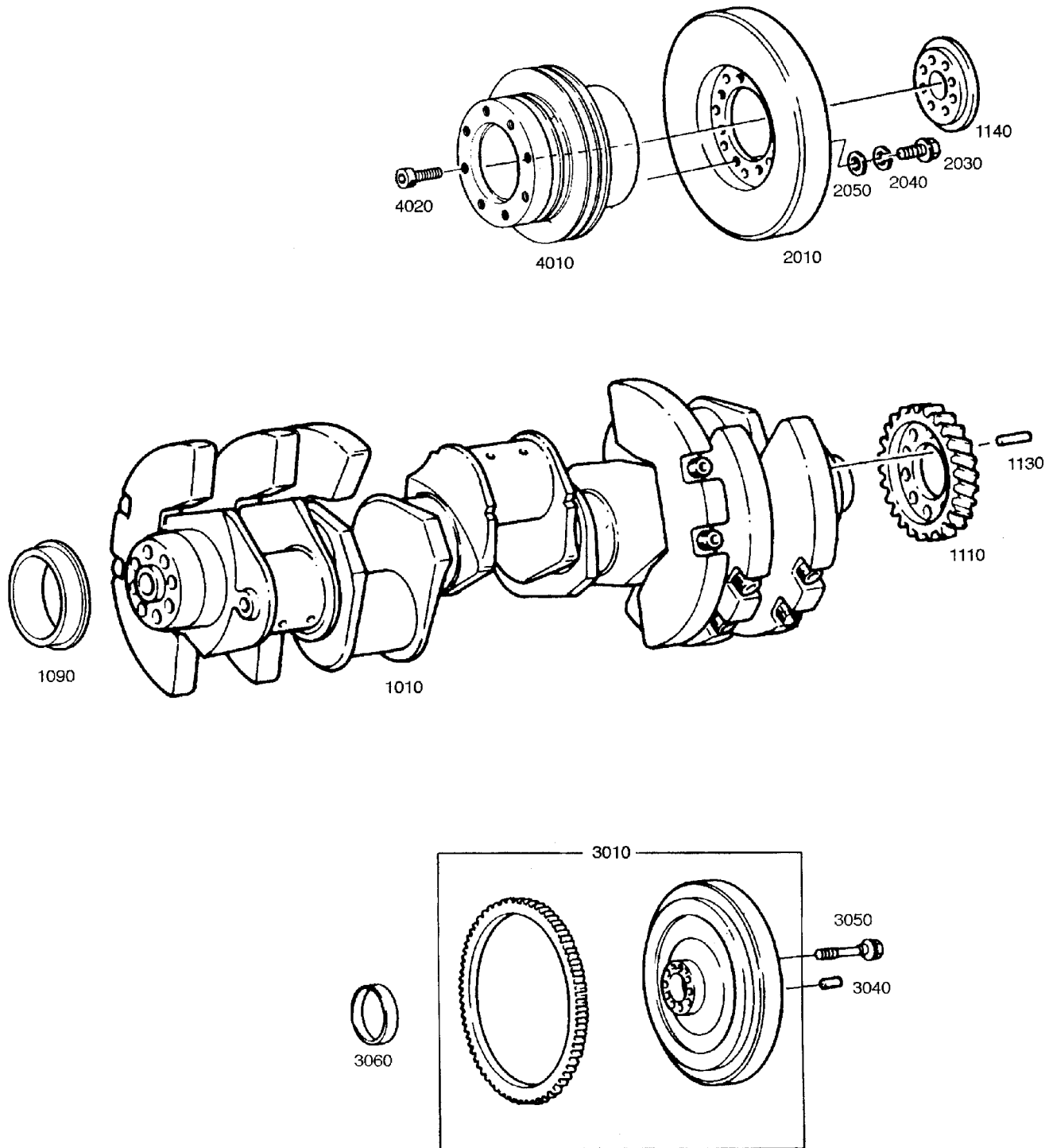
# 18.0L DIESEL — BREATHER FILTER



**18.0L DIESEL — BREATHER FILTER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930174	FILTER ; BREATHER	1
1020	0C46930175	O-RING	1
1030	0C46930176	HOSE ; RUBBER	2
1040	0C46930177	HOSE ; RUBBER	1
1050	0C27100318	CLAMP ; HOSE NW S20	2
1060	0C46930179	CLAMP ; HOSE NW 12	4
1070	0C46930180	PIPE ; BREATHER	1

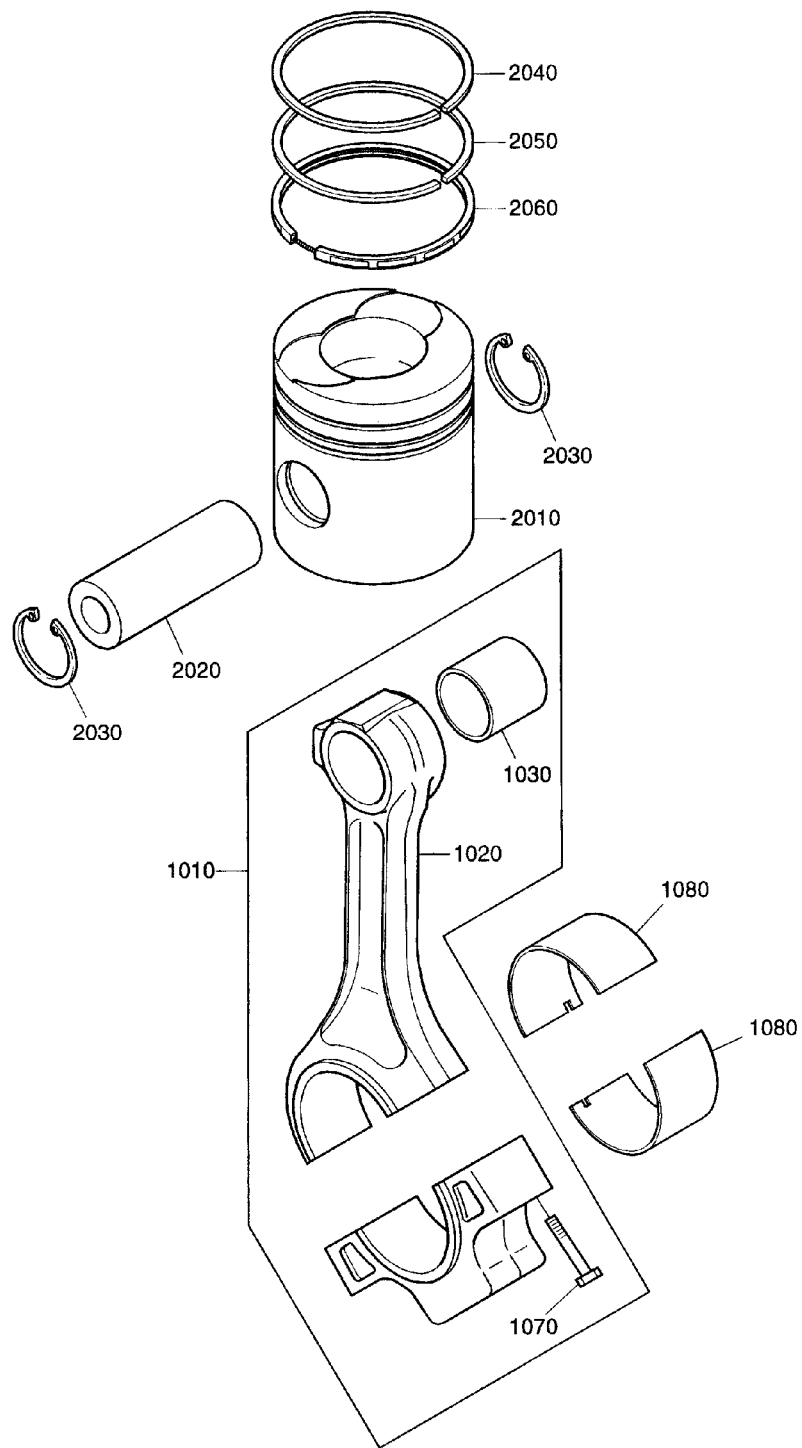
# 18.0L DIESEL — CRANKSHAFT



**18.0L DIESEL — CRANKSHAFT**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	OD86900103	CRANKSHAFT ASY	1
1090	OC46930184	RING: WEAR, FRONT	1
1110	OC46930185	GEAR: CRANK SHAFT	1
1130	OC46930186	PIN: PARALLEL	1
1140	OC46930187	RING: OIL THROWER	1
2010	OD86900104	DAMPER: VIBRATION	1
2030	OD86900105	BOLT: SOCKET HEAD	8
2040	OD86900106	WASHER: SPRING	8
2050	OD86900107	WASHER: PLAIN	8
3010	OC46930190	FLYWHEEL ASY	1
3040	OC46930191	PIN: LOCK	1
3050	OC46930192	BOLT: COLLARED HEX	10
3060	OC46930193	RING: WEAR (REAR)	1
4010	OD86900108	PULLEY: V-BELT	8
4020	OC46930195	BOLT	8

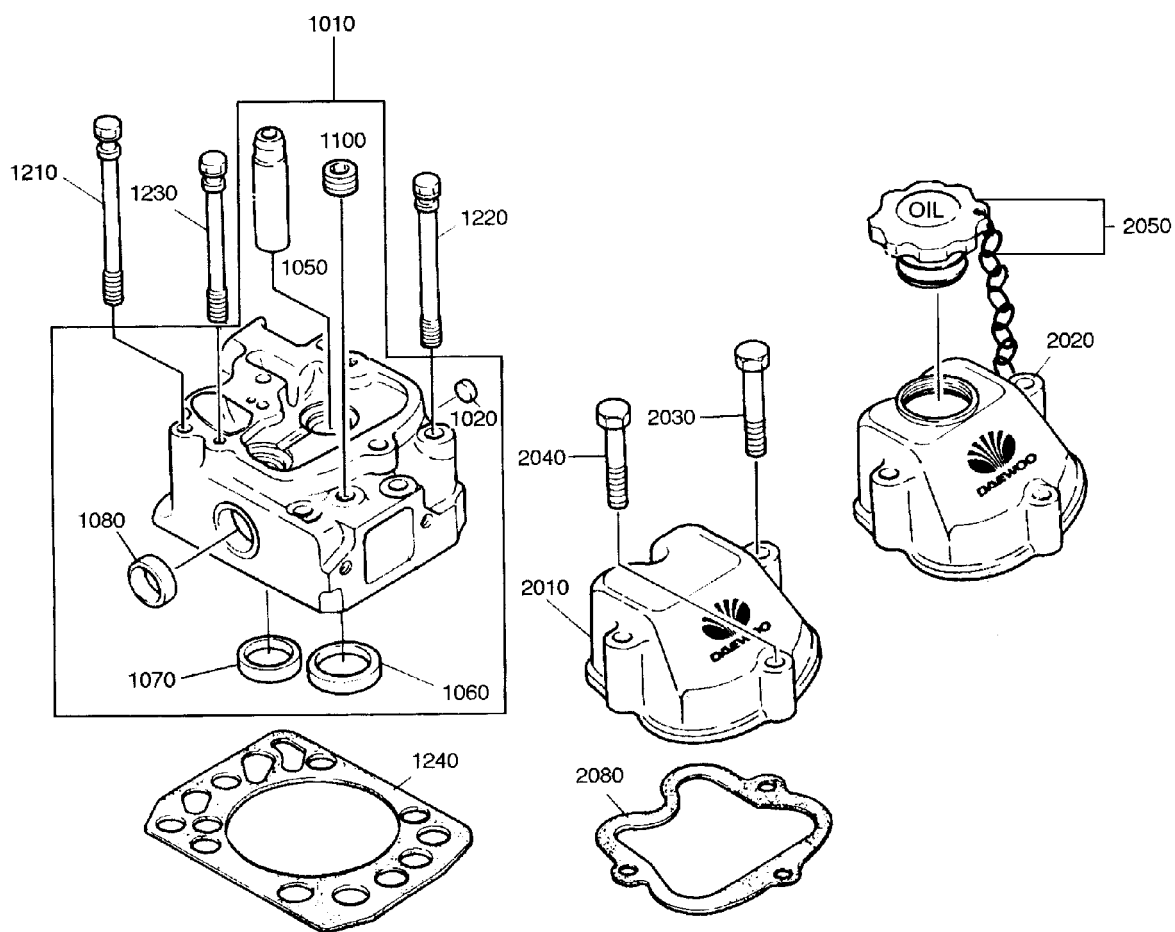
# 18.0L DIESEL — PISTON



**18.0L DIESEL — PISTON**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930196	CONNECTING ROD ASY	10
1020	0C46930197	BUSH: CON-ROD	10
1030	0C46930198	BOLT: CON-ROD	10
1070	0C46930199	BEARING: CON-ROD (STD)	20
1080	0C46930200	BEARING: CON-ROD (0.10)	20
	0C46930201	BEARING: CON-ROD (0.25)	20
	0C46930202	BEARING: CON-ROD (0.50)	20
	0C46930203	BEARING: CON-ROD (0.75)	20
	0C46930204	BEARING: CON-ROD (1.00)	20
2010	0C46930205	PISTON	10
2020	0C46930206	PIN: PISTON	10
2030	0C46930207	RING: SNAP	20
2040	0C46930208	RING: PISTON (TOP)	10
2050	0C46930209	RING: PISTON (2ND)	10
2060	0C46930210	RING: PISTON (OIL)	10

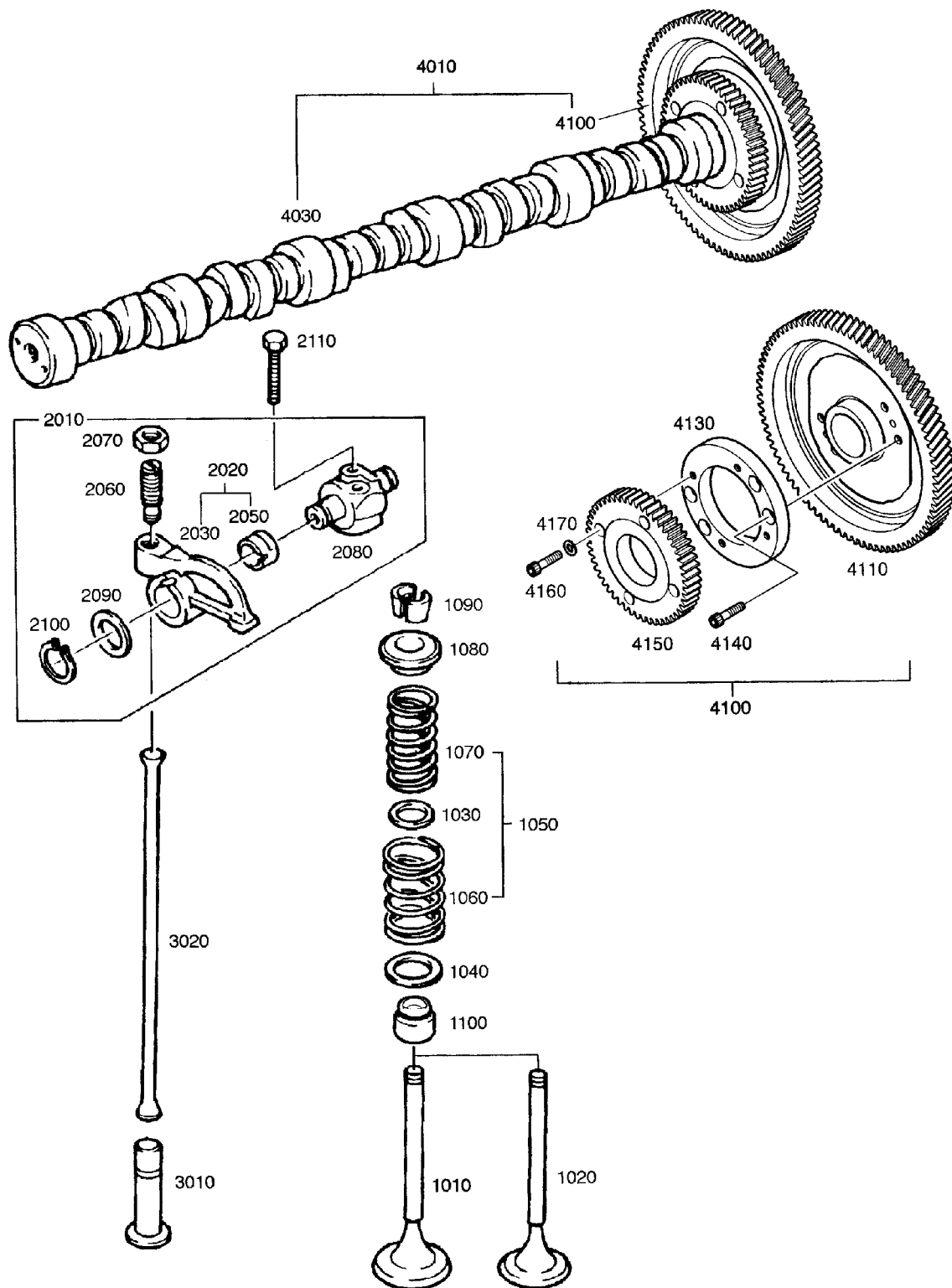
# 18.0L DIESEL — CYLINDER HEAD



**18.0L DIESEL — CYLINDER HEAD**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930211	CYLINDER HEAD ASY (ALTV)	10
1050	0C46930213	GUIDE: VALVE	20
1060	0C46930214	SEAT: INTAKE VALVE	10
1070	0C46930215	SEAT: EXHAUST VALVE	10
1080	0C46930111	PLUG: CORE HOLE	10
1090	0C46930216	PLUG: CORE HOLE	10
1100	0C46930217	PLUG: SCREW M22X1.5	10
1210	0C46930219	BOLT: CYLINDER HEAD	20
1220	0C46930220	BOLT: CYLINDER HEAD	30
1230	0C46930221	BOLT: CYLINDER HEAD	10
1240	0C46930222	GASKET: CYLINDER HEAD	10
2010	0C46930223	COVER: CYLINDER HEAD	9
2020	0C46930224	COVER: CYLINDER HEAD	1
2030	0C46930225	BOLT ASY M8X70	20
2040	0C27100282	BOLT ASY M8X45	10
2050	0C46930227	CAP: FILLER	1
2080	0C46930228	GASKET: CYLINDER HEAD COVER	10

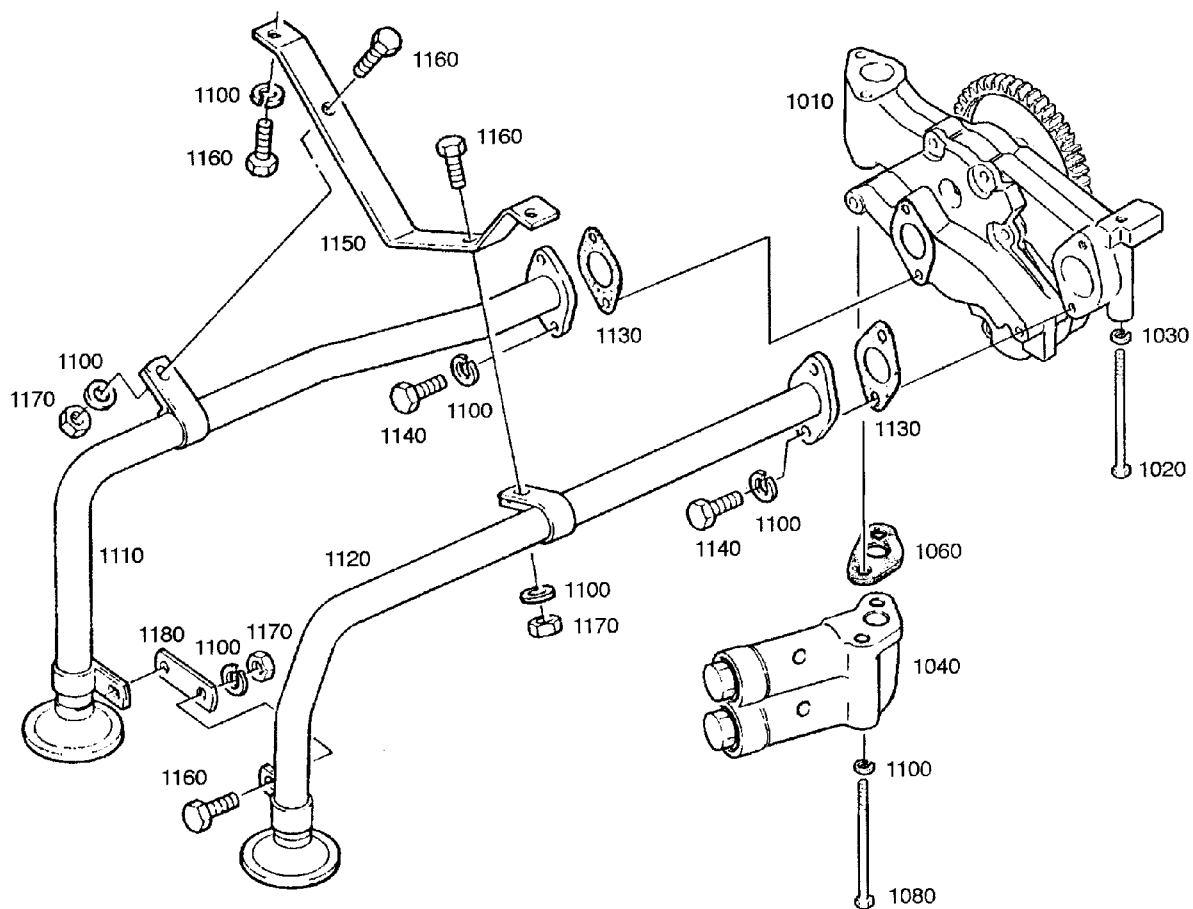
# 18.0L DIESEL — CAMSHAFT



**18.0L DIESEL — CAMSHAFT**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930229	VALVE: INTAKE	10
1020	0C46930230	VALVE: EXHAUST	10
1030	0C46930231	WASHER	20
1040	0C46930232	WASHER	20
1060	0C46930233	SPRING: VALVE (OUTER)	20
1070	0C46930234	SPRING: VALVE (INNER)	20
1080	0C46930235	PLATE: VALVE SPRING	20
1090	0C46930236	COTTER: VALVE	40
1100	0C46930237	SEAL: VALVE STEM	20
2020	0C46930238	ROCKER ARM ASY	20
2060	0C46930239	SCREW: ADJUST	20
2070	0C46930240	NUT: HEX	20
2080	0C46930241	BRACKET: ROCKER ARM	10
2090	0C46930242	WASHER	20
2100	0C46930243	RING: SNAP 24X1.2	20
2110	0C46930244	BOLT: HEX	20
3010	0C46930245	TAPPET: VALVE	20
3020	0C46930246	ROD: PUSH	20
4010	0D86900109	CAMSHAFT ASY	1
4100	0C46930248	INJECTION PUMP DRIVE ASY	1
4130	0C46930249	SPACER	1
4140	0C46930250	BOLT: SOCKET HEAD	4
4150	0C46930251	GEAR: INJECTION PUMP DRIVE	1
4160	0C46930252	BOLT: SOCKET HEAD	4
4170	0C46930253	WASHER: SPRING	4

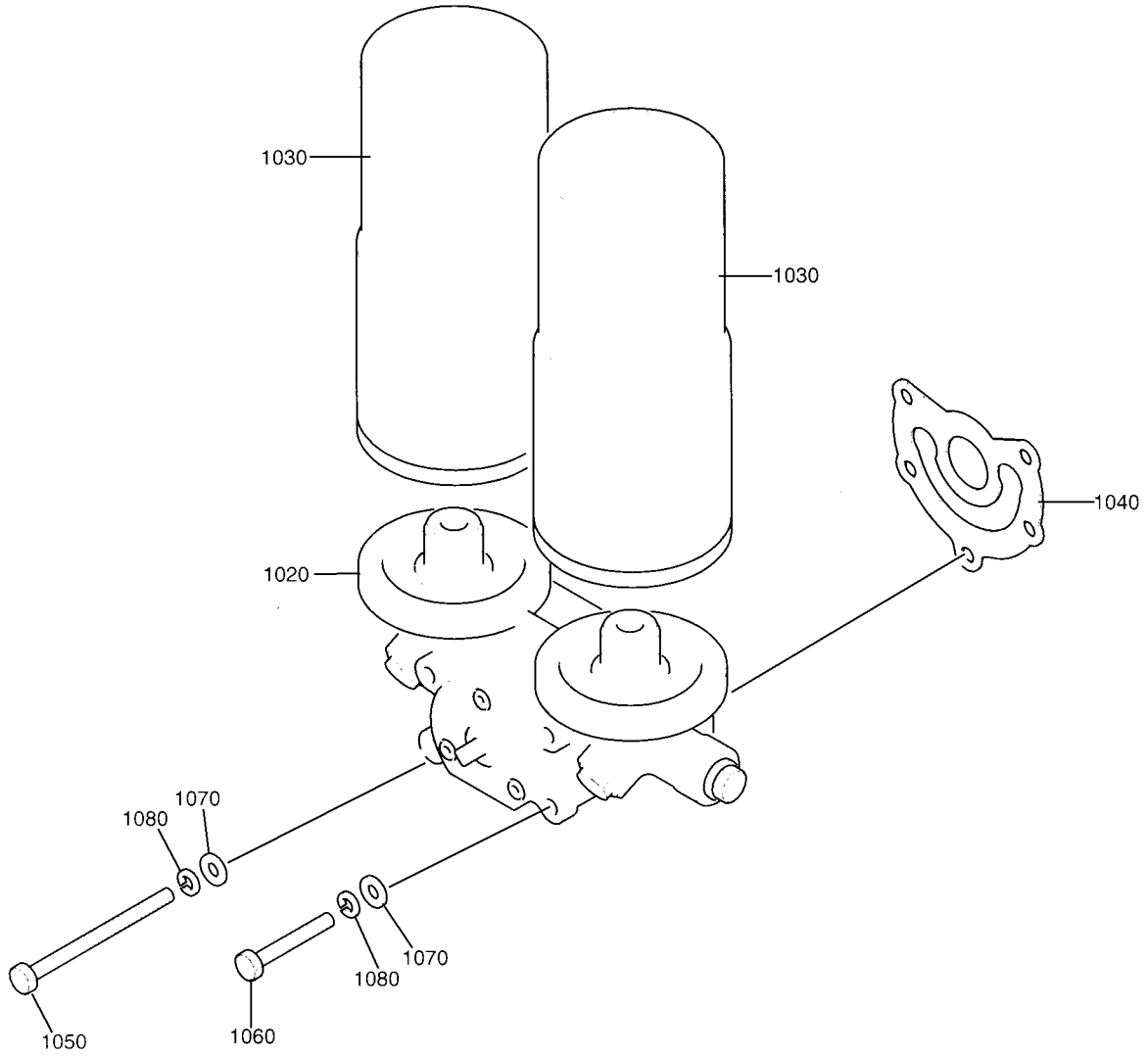
# 18.0L DIESEL — OIL PUMP



**18.0L DIESEL — OIL PUMP**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930254	OIL PUMP ASY	1
1020	0C27100330	BOLT: HEX, M8X95	1
1030	0C27100331	WASHER: SPRING A8	1
1040	0C46930257	RELIEF VALVE ASY	1
1060	0C46930258	GASKET: OIL PIPE	1
1080	0C46930259	BOLT: HEX M8X140	2
1100	0C27100331	WASHER: SPRING A8	12
1110	0C46930260	PIPE: OIL	1
1120	0C46930261	PIPE: OIL	1
1130	0C46930262	GASKET: FLANGE	2
1140	0C27100159	BOLT: HEX ASY M8X25	4
1150	0C46930264	BRACKET: OIL PIPE	1
1160	0C27100116	BOLT ASY M8X20	6
1170	0D86900110	NUT: HEX M8	4
1180	0C46930267	HOLDER	1

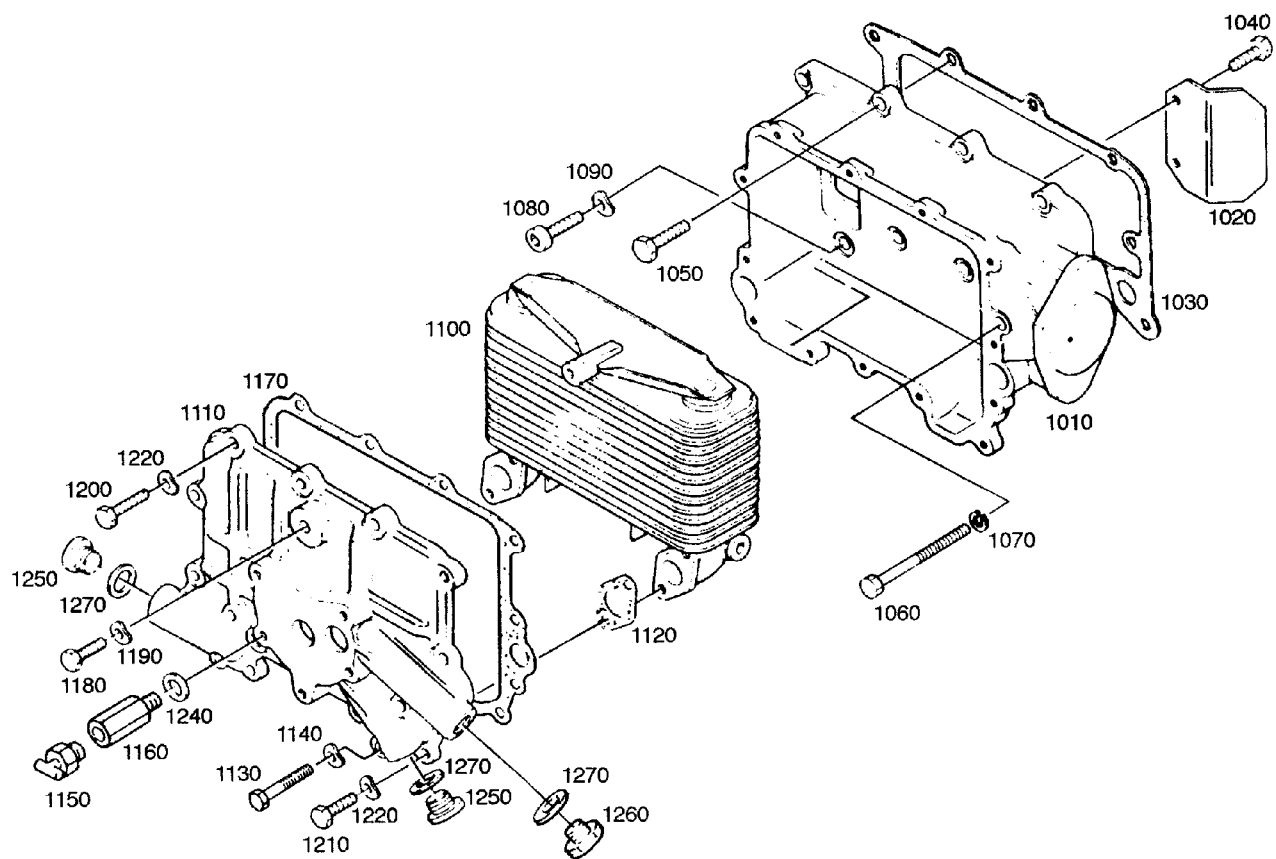
# 18.0L DIESEL — OIL FILTER



**18.0L DIESEL — OIL FILTER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1020	0C46930268	HEAD ; OIL FILTER	1
1030	0C46930269	CARTRIDGE ; OIL FILTER	2
1040	0C46930270	GASKET ; OIL FILTER	1
1050	0C46930271	BOLT ; HEX. M10X125	4
1060	0C46930272	BOLT ; HEX. M10X60	1
1070	0C27100336	WASHER 8.4	5
1080	0C27100331	WASHER ; SPRING A8	5

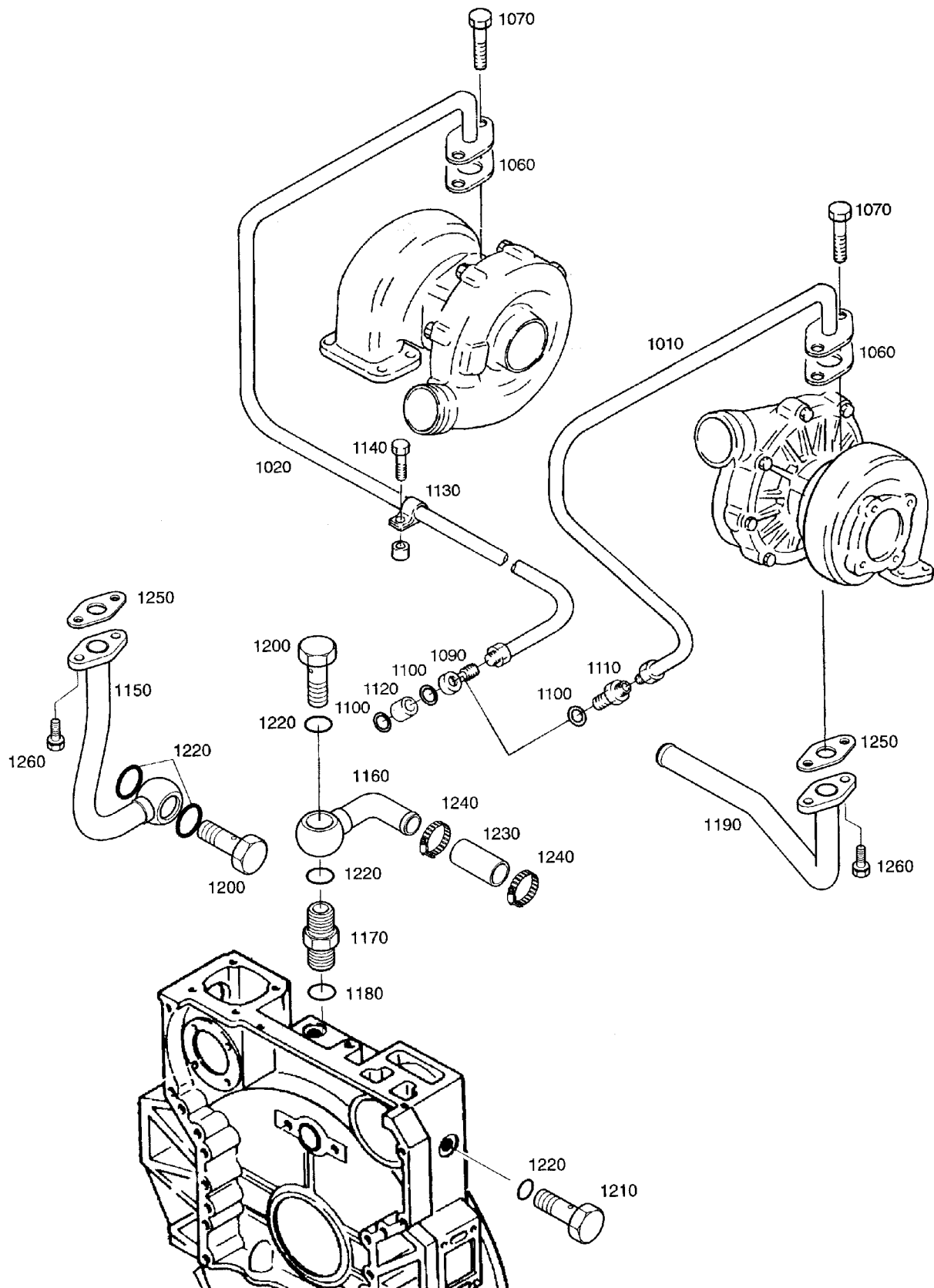
# 18.0L DIESEL — OIL COOLER



## 18.0L DIESEL — OIL COOLER

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	OD86900111	HOUSING: OIL COOLER	1
1020	OD86900112	HOUSING: OIL COOLER	1
1030	OC46930275	GASKET: OIL FILTER	1
1040	OD86900113	BOLT: HEX M8X20	2
1050	OC46930276	BOLT: HEX M10X35	6
1060	OD86900114	BOLT: HEX	1
1070	OC27100323	WASHER: SPRING A10	1
1080	OC46930278	BOLT: SOCKET HEAD	3
1090	OC27100395	WASHER: PLAIN 10.5	3
1100	OC46930280	OIL COOLER ASY	1
1110	OD86900115	HEAD: OIL COOLER	1
1120	OC46930281	GASKET: FLANGE	2
1130	OC46930284	BOLT: HEX M8X55	2
1140	OC46930253	WASHER: SPRING	4
1150	OC46930289	VALVE: DRAIN	1
1160	OC46930288	ADAPTER	1
1170	OD86900116	GASKET: OIL COOLER	1
1180	OC46930285	BOLT: HEX M8X16	1
1190	OC46930253	WASHER: SPRING	1
1200	OD86900117	BOLT: HEX M8X30	12
1210	OD86900118	BOLT HEX M8X1.25X25	1
1220	OC46930253	WASHER: SPRING	13
1230	OC27100117	SCREW: PLUG	1
1240	OC27100400	RING: SEAL A14X20	1
1250	OC46930161	SCREW: PLUG	2
1260	OD86900119	ADAPTER	1
1270	OC46930114	RING: SEAL 26X31	3

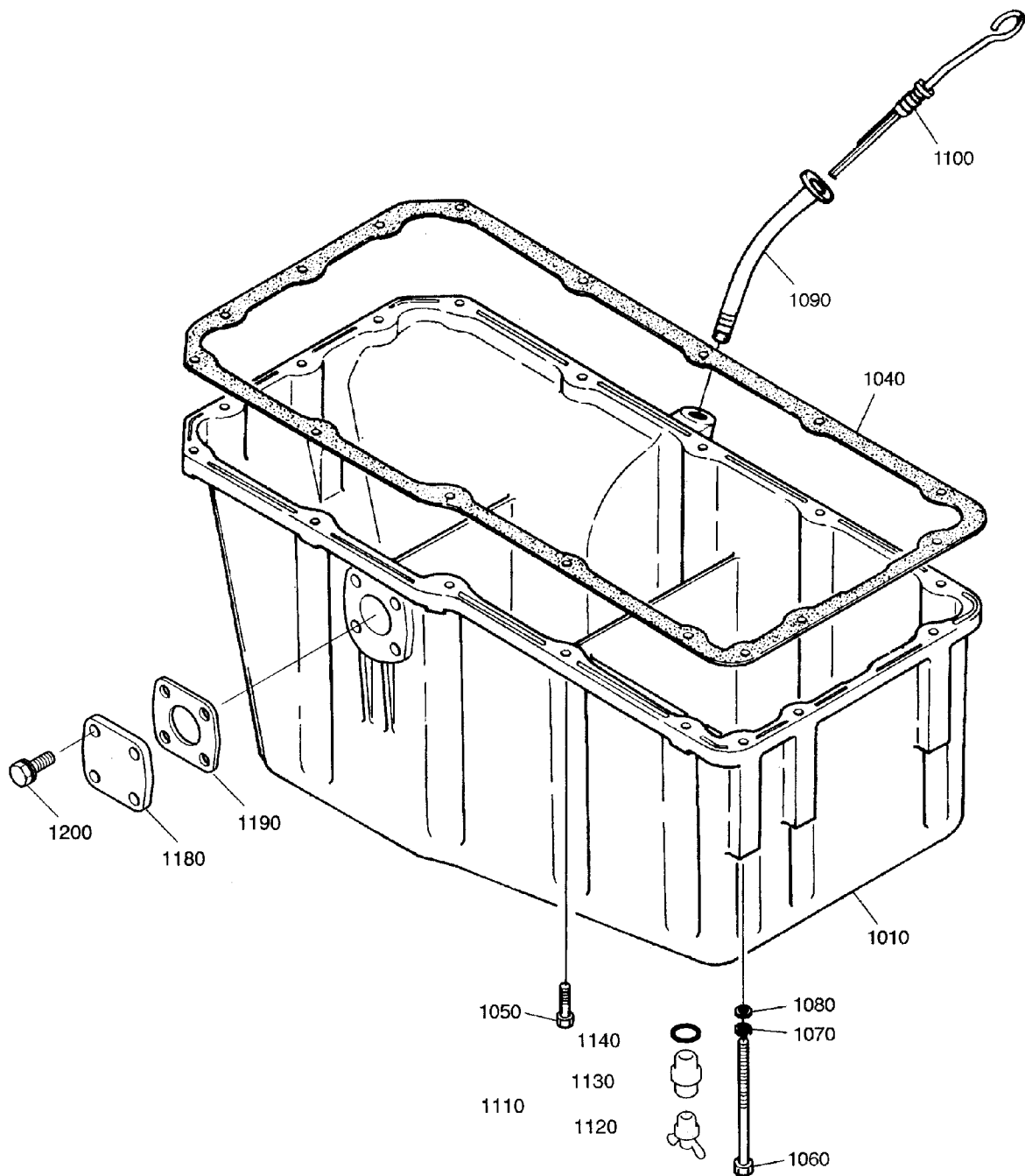
# 18.0L DIESEL — OIL PIPE (TURBOCHARGER)



**18.0L DIESEL — OIL PIPE (TURBO CHARGER)**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930296	PIPE: OIL	1
1020	0C46930297	PIPE: OIL	1
1060	0C46930298	GASKET: FLANGE	2
1070	0C27100364	BOLT ASY M8X22	4
1090	0C46930300	UNION: BANJO	1
1100	0C27100400	RING: SEAL A14X20	4
1110	0C46930301	SCREW: HOLLOW	1
1120	0C46930302	SPACER	1
1130	0C46930303	CLIP: PIPE	1
1140	0C27100364	BOLT ASY M8X22	4
1150	0C46930304	PIPE: OIL	1
1160	0C46930305	PIPE: OIL	1
1170	0C46930306	ADAPTER	1
1180	0C46930307	RING: SEAL A26X32	1
1190	0C46930308	PIPE: OIL	1
1200	0C46930309	SCREW: HOLLOW	1
1210	0C46930310	PLUG: SCREW M26X1.5	1
1220	0C46930307	RING: SEAL A26X32	3
1230	0C27100373	HOSE: RUBBER, RING JOINT	1
1240	0C27100318	CLAMP: HOSE NW S20	2
1250	0C27100371	GASKET: FLANGE	2
1260	0C27100364	BOLT ASY M8X22	4

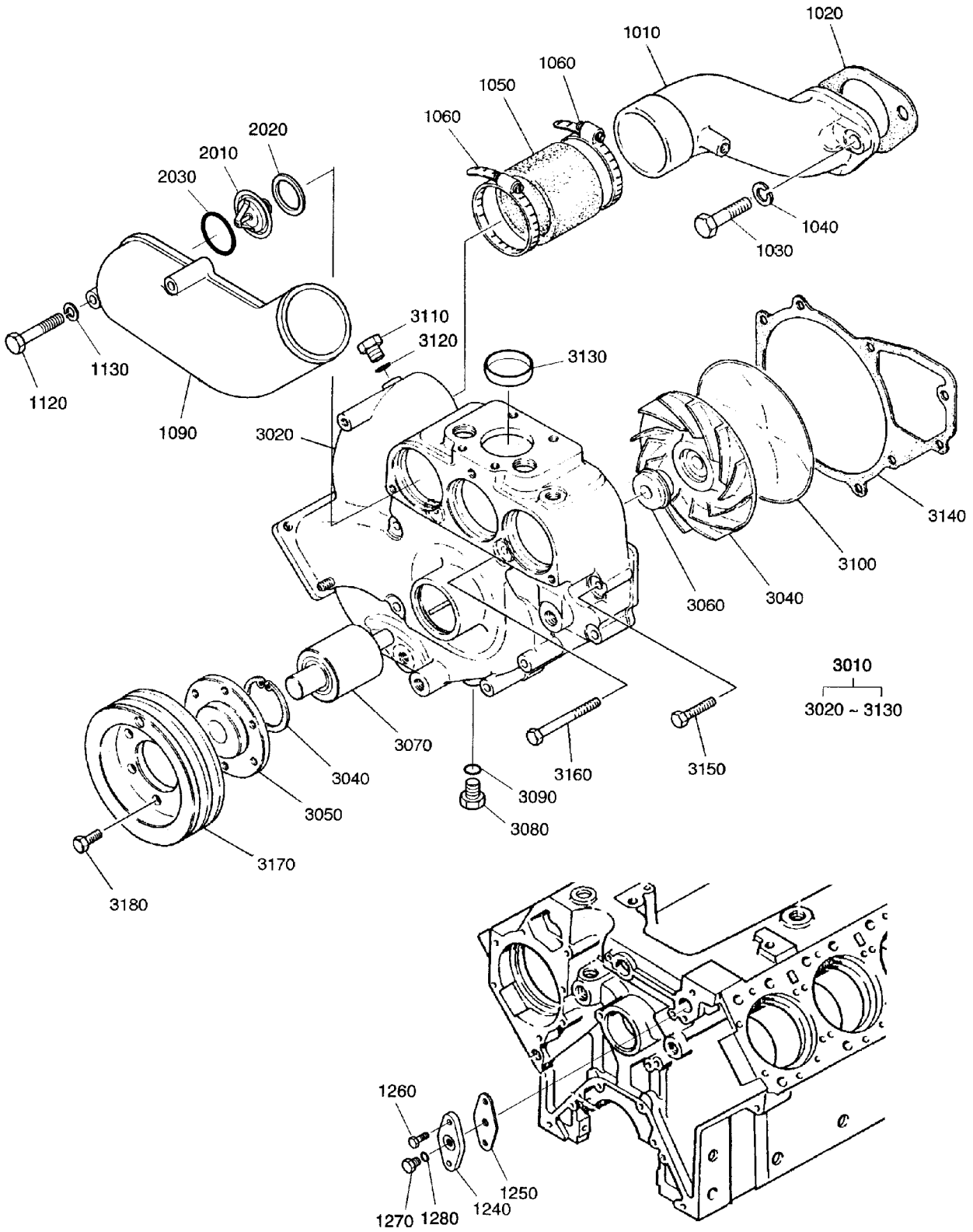
# 18.0L DIESEL — OIL PAN



**18.0L DIESEL — OIL PAN**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900120	PAN: OIL	1
1040	0D86900121	GASKET: OIL PAN	1
1050	0C46930314	BOLT ASY M8X35	15
1060	0C46930259	BOLT: HEX M8X140	3
1070	0C27100331	WASHER: SPRING A8	3
1080	0C27100261	WASHER: PLAIN 8.4	3
1090	0C46930316	GUIDE TUBE: OIL LEVEL GAUGE	1
1100	0C46930317	GAUGE: OIL LEVEL	1
1110	0C46930312	JOINT ASY: DRAIN	1
1120	0D86900122	JOINT: DRAIN	1
1130	0D86900123	ADAPTER	1
1140	0C46930307	RING: SEAL A26X31	1
1150	0C46930318	FLANGE	1
1160	0C46930319	GASKET	1

# 18.0L DIESEL — COOLING WATER PIPE

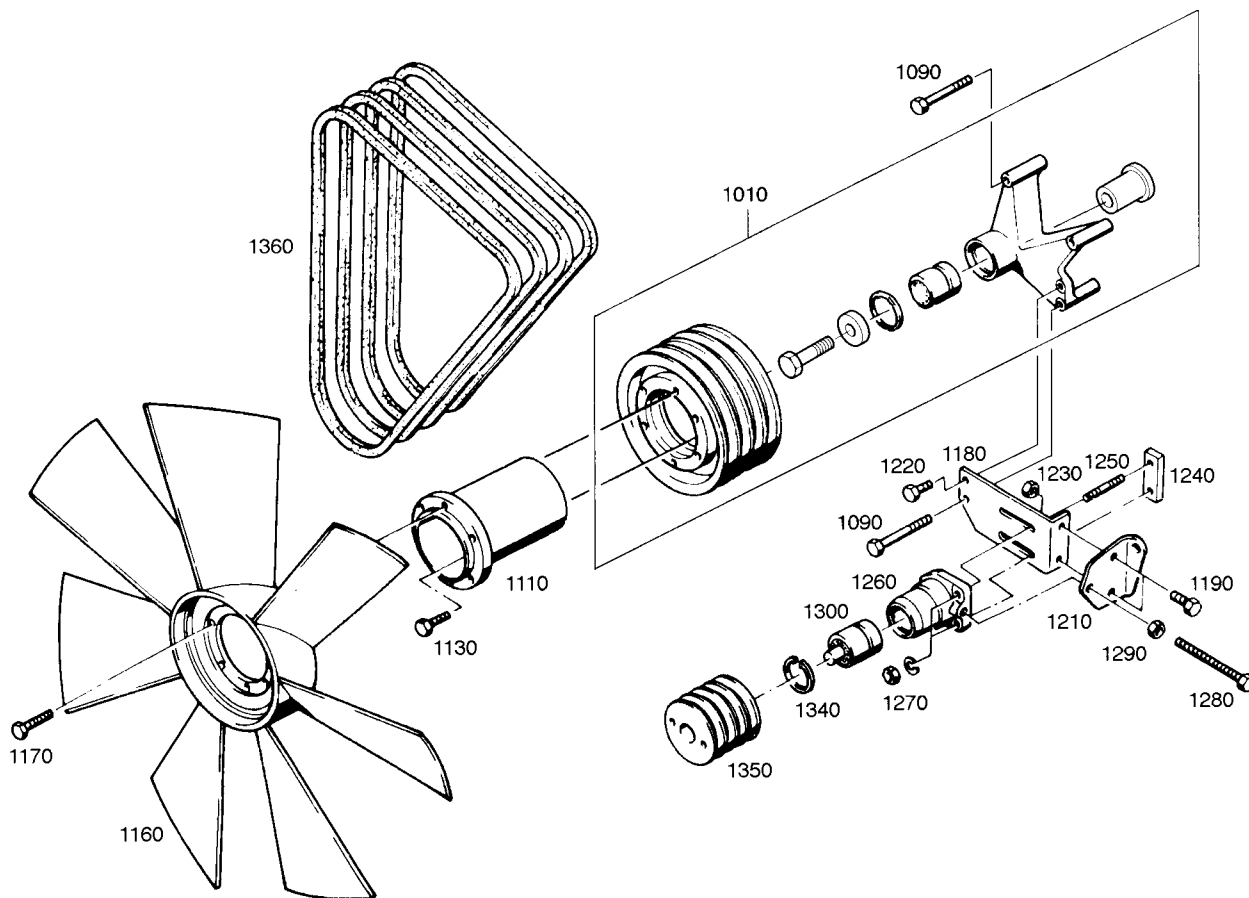


## 18.0L DIESEL — COOLING WATER PIPE

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900124	PIPE: COOLING WATER	1
1020	0C46930321	GASKET: WATER PIPE	1
1030	0C46930149	BOLT ASY M12X35	2
1040	0C27100234	WASHER: PLAIN 12	2
1050	0C46930322	HOSE: RUBBER	1
1060	0C46930323	CLAMP: HOSE NW64	2
1090	0C46930324	PIPE: COOLING WATER	1
1120	0C46930325	BOLT: HEX M8X60	3
1130	0C46930253	WASHER: SPRING	3
1240	0C46930326	CONNECTION	1
1250	0C46930327	GASKET: FLANGE	1
1260	0C46930328	BOLT ASY M10X30	2
1270	0C46930329	SCREW: PLUG AM14X1.5	1
1280	0C27100400	RING: SEAL A14X20	1
2010	0C46930330	ELEMENT: THERMOSTAT	3
2020	0D86900125	O-RING 60X4	3
2030	0C46930332	GASKET: THERMOSTAT	3
3010	0C46930333	WATER PUMP ASY	1
3140	0C46930334	GASKET: WATER PUMP	1
3150	0C46930335	BOLT: HEX M8X85	3
3160	0C27100335	BOLT ASY M8X55	3
3170	0C46930337	PULLEY: V-BELT	1
3180	0C46930338	BOLT ASY M8X12	6

NOTE: ITEMS 3020 THROUGH 3130 SHOWN IN ILLUSTRATION ARE ONLY AVAILABLE AS ITEM #3010, WATER PUMP ASSEMBLY, PART NUMBER 0C46930333.

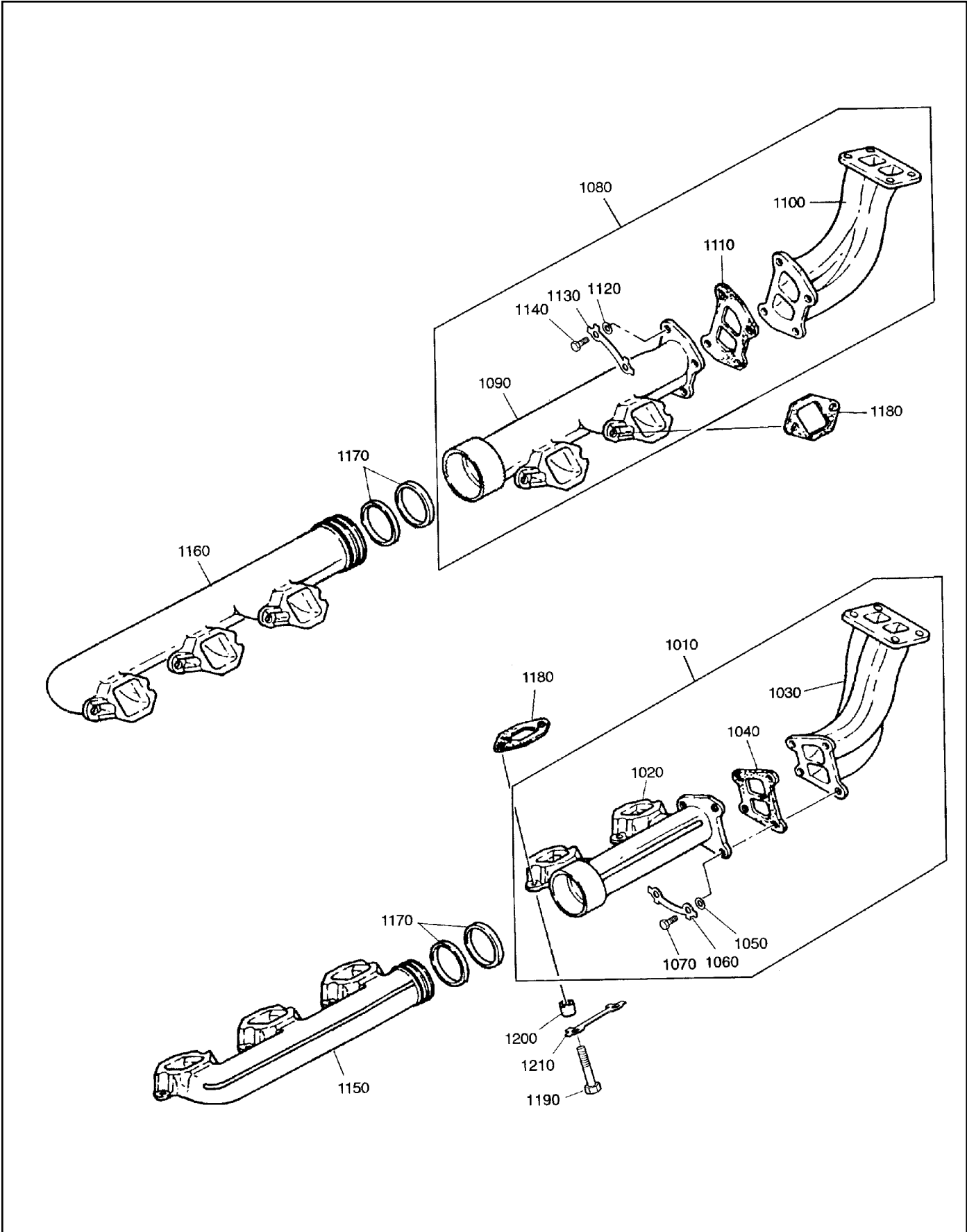
# 18.0L DIESEL — COOLING FAN & MOUNTING



## 18.0L DIESEL — COOLING FAN & MOUNTING

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930339	FAN MOUNTING ASY	1
1090	0C46930340	BOLT ASY M10X90	2
1110	0C46930341	FLANGE: FAN	1
1130	0C27100345	BOLT ASY M8X28	6
1160	0C46930343	FAN: COOLING	1
1170	0C46930344	BOLT ASY M8X20	6
1180	0C46930345	BRACKET: IDLE PULLEY	1
1190	0C46930346	BOLT ASY M10X25	1
1210	0C46930347	BRACKET: IDLE PULLEY	1
1220	0C46930276	BOLT: HEX M10X35	2
1230	0C46930348	NUT: HEX M10	2
1240	0C46930349	BRACKET: IDLE PULLEY	1
1250	0C46930350	BOLT: STUD M10X35	2
1260	0C46930351	BRACKET: IDLE PULLEY	1
1270	0C46930348	NUT: HEX M10	2
1280	0C46930352	BOLT: HES M10X100	1
1290	0C46930353	NUT: HEX M10	1
1300	0C46930354	BEARING: BALL	1
1340	0C46930355	RING: SNAP 55X2	1
1350	0C46930356	PULLEY: IDLE	1
1360	0C46930357	BELT: V TYPE	2

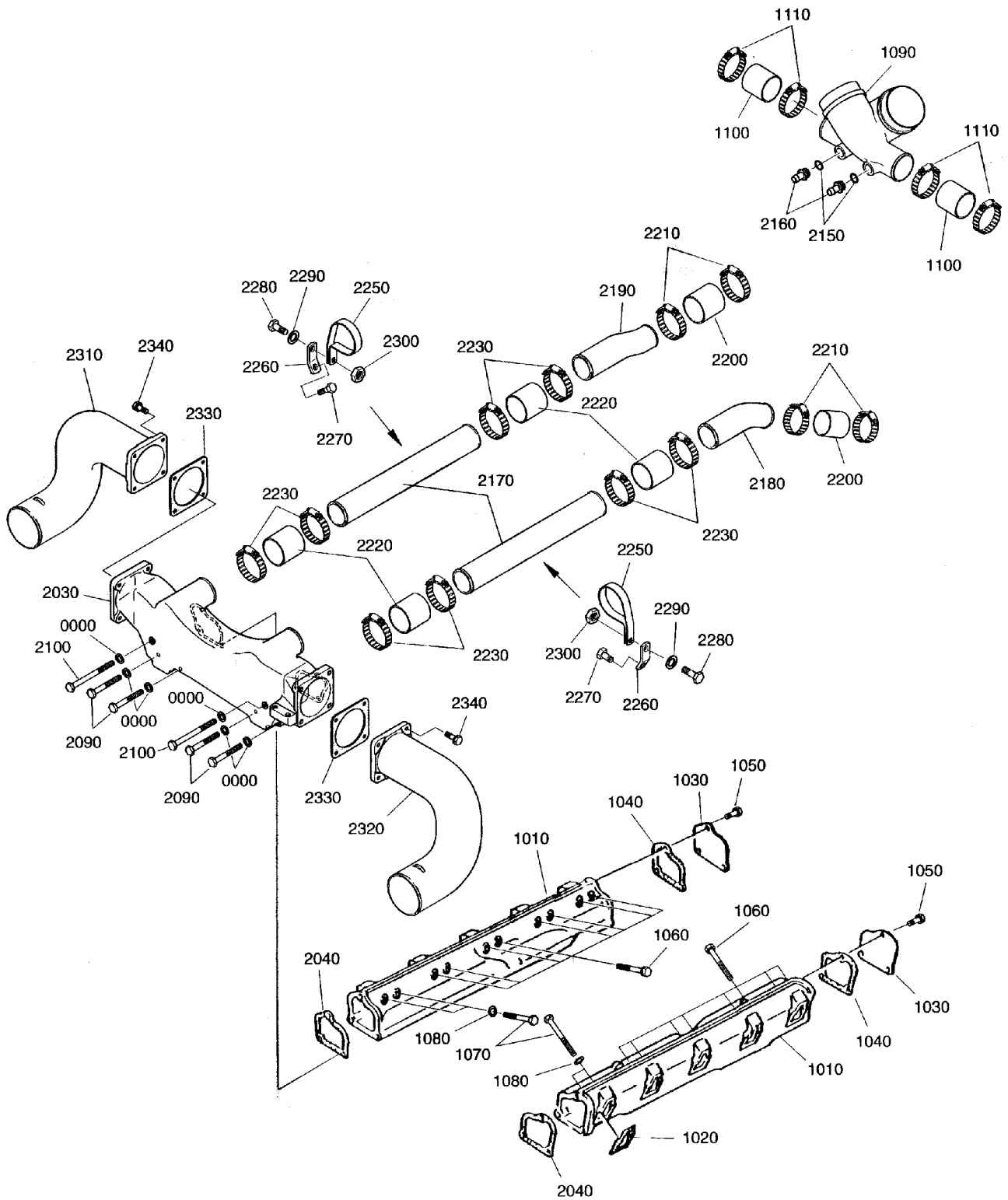
# 18.0L DIESEL — EXHAUST MANIFOLD



## 18.0L DIESEL — EXHAUST MANIFOLD

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900126	EXHAUST: MANIFOLD ASY	1
1020	0D86900127	MANIFOLD: EXHAUST	1
1030	0C46930359	MANIFOLD: EXHAUST	1
1040	0C46930360	GASKET: EXHAUST MANIFOLD	1
1050	0C46930361	WASHER	4
1060	0C46930362	WASHER: LOCK	2
1070	0C46930363	BOLT: HEX	4
1080	0D86900128	EXHAUST: MANIFOLD ASY	1
1090	0D86900129	MANIFOLD: EXHAUST	1
1100	0C46930365	MANIFOLD: EXHAUST	1
1110	0C46930360	GASKET: EXHAUST MANIFOLD	1
1120	0C46930361	WASHER	4
1130	0C46930362	WASHER: LOCK	2
1140	0C46930363	BOLT: HEX	4
1150	0C46930366	MANIFOLD: EXHAUST	1
1160	0C46930367	MANIFOLD: EXHAUST	1
1170	0C46930368	GASKET: METAL	4
1180	0C46930369	GASKET: EXHAUST MANIFOLD	10
1190	0C46930370	BOLT: HEX	20
1200	0C46930371	SPACER	20
1210	0C46930372	WASHER: LOCK	10

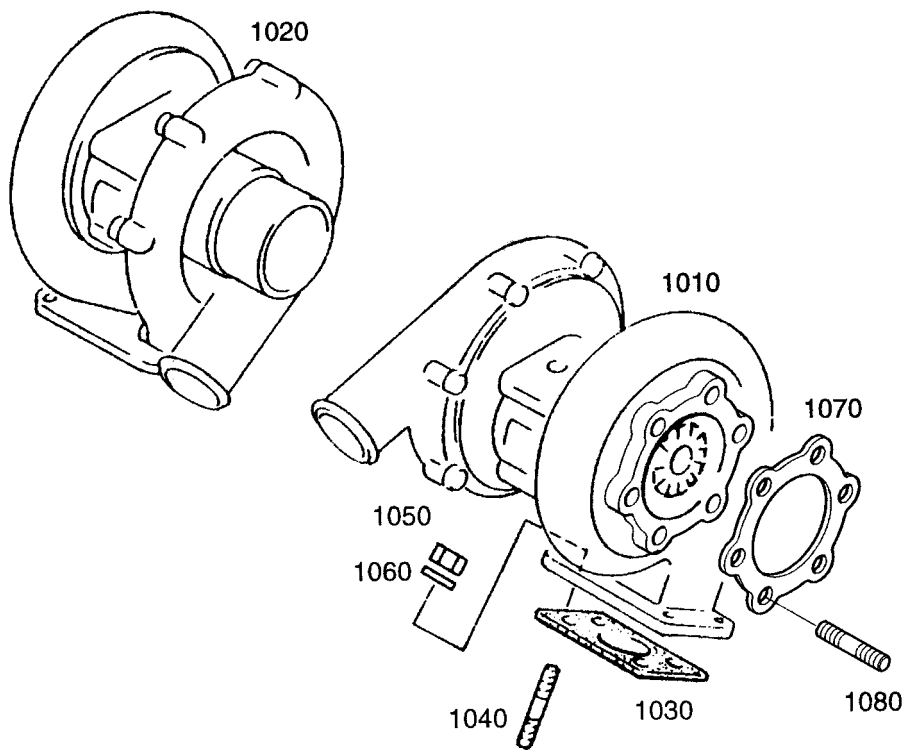
# 18.0L DIESEL — INTAKE MANIFOLD



## 18.0L DIESEL — INTAKE MANIFOLD

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900130	MANIFOLD: INTAKE	2
1020	0C46930374	GASKET: INTAKE MANIFOLD	10
1030	0C46930375	COVER	2
1040	0C46930376	GASKET: INTAKE MANIFOLD	2
1050	0C27100299	BOLT ASY M8X18	6
1060	0C46930378	BOLT ASY M8X110	12
1070	0C46930379	BOLT: HEX M8X120	8
1080	0C46930253	WASHER: SPRING	8
1090	0D86900131	STAKE: INTAKE	1
1100	0D86900132	HOSE: RUBBER	2
1110	0D86900133	CLAMP: HOSE, BAND TYPE	4
1150	0C46930383	NIPPLE	2
1160	0C46930114	RING: SEAL 26X31	2
2030	0C46930384	INLET	1
2040	0C46930376	GASKET: INTAKE MANIFOLD	2
2090	0C46930379	BOLT: HEX M8X120	4
2100	0C46930385	BOLT: HEX M8X170	2
2170	0D86900134	INLET	2
2180	0D86900135	INLET	1
2190	0D86900136	INLET	1
2200	0D86900137	HOSE: RUBBER	2
2210	0D86900138	CLAMP: HOSE	4
2220	0C46930322	HOSE: RUBBER	4
2230	0C46930323	CLAMP: HOSE NW64	8
2250	0C46930391	CLIP: PIPE	2
2260	0C46930392	HOLDER	2
2270	0C46930393	BOLT: HEX	2
2280	0D86900139	BOLT: HEX M8X30	2
2290	0C27100336	WASHER: 8.4	2
2300	0D86900110	NUT: HEX M8	2
2310	0C46930395	INLET	1
2320	0C46930396	INLET	1
2330	0C46930397	GASKET: INTER COOLER	2
2340	0C46930398	BOLT ASY M12X35	8

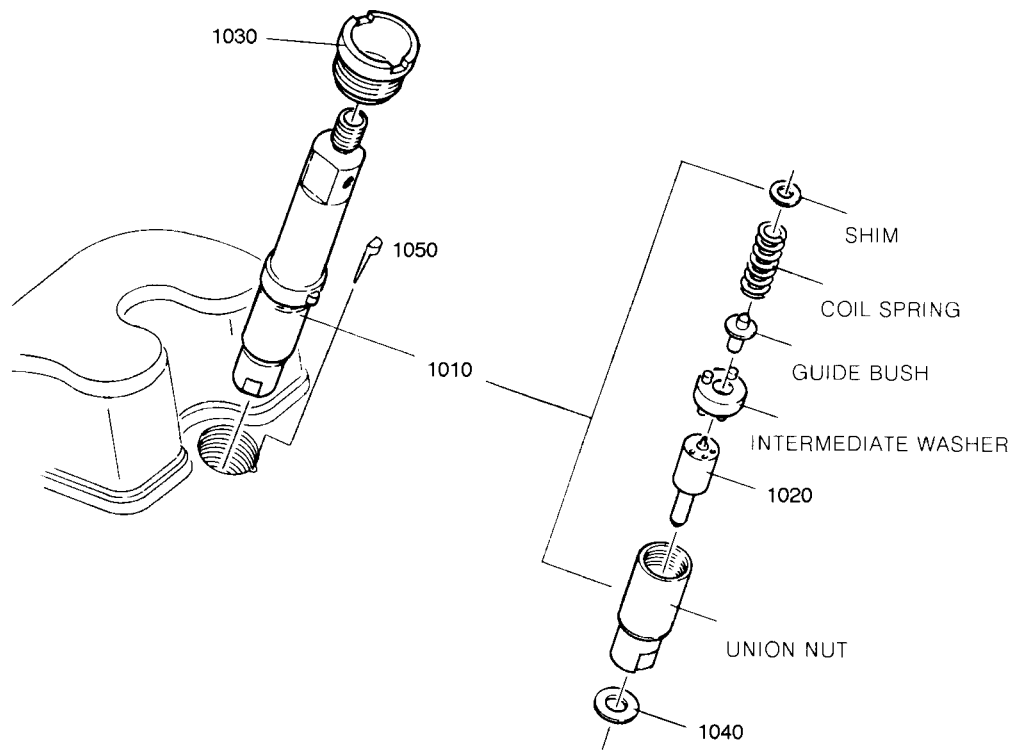
# 18.0L DIESEL — TURBO CHARGER



**18.0L DIESEL — TURBO CHARGER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0D86900141	TURBO CHARGER ASY	1
1020	0D86900142	TURBO CHARGER ASY	1
1030	0C46930401	GASKET: TURBO CHARGER	2
1040	0C46930402	BOLT: STUD	8
1050	0C46930403	NUT: HEX M10	8
1080	0C46930402	BOLT: STUD	12

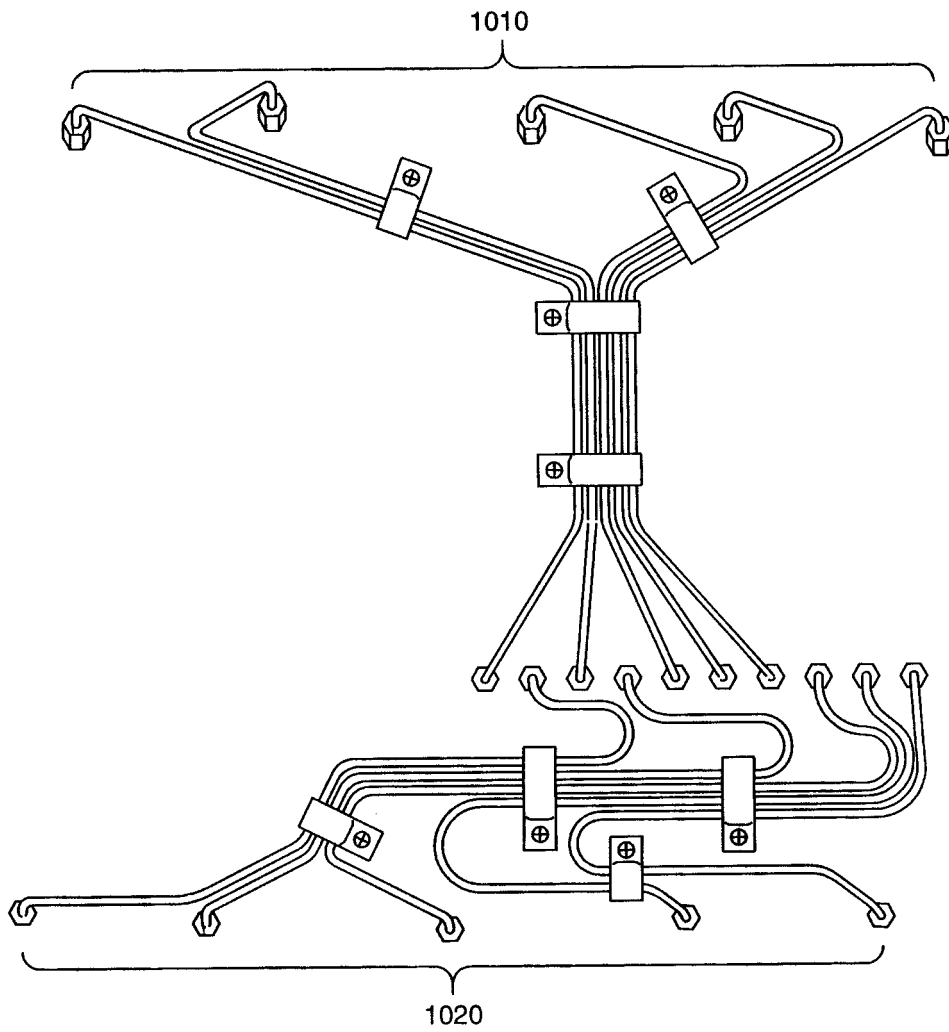
# 18.0L DIESEL — NOZZLE & HOLDER



**18.0L DIESEL — NOZZLE & HOLDER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930404	NOZZLE & HOLDER ASY	10
1020	0C46930405	NOZZLE	10
1030	0C46930406	SCREW: PRESSURE	10
1040	0C46930407	RING: SEAL	10
1050	0C46930408	SEAL: NOZZLE HOLDER	10

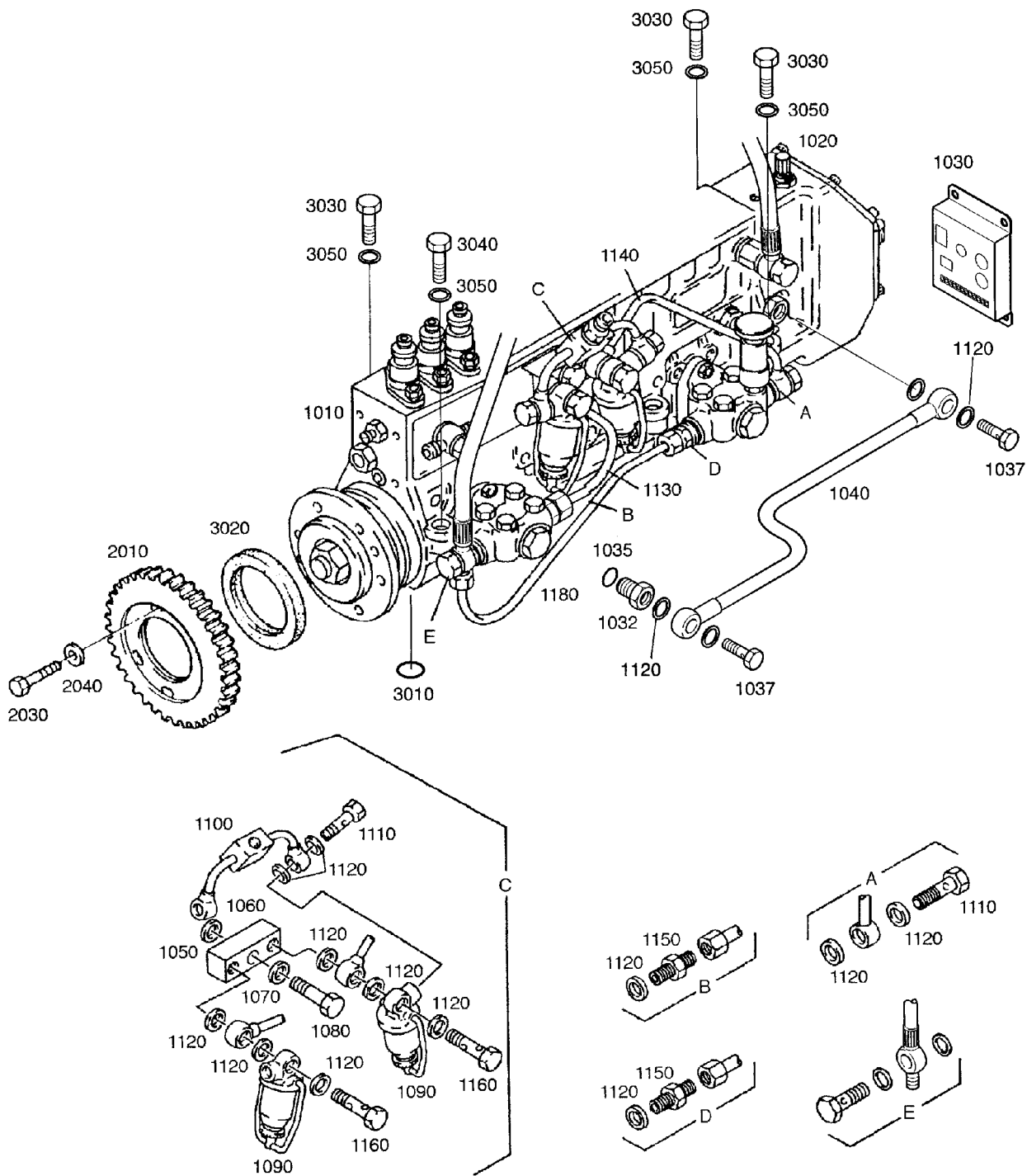
18.0L DIESEL — FUEL INJECTION PIPE



**18.0L DIESEL — FUEL INJECTION PIPE**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	OD86900143	PIPE: INJECTION	1
1020	OD86900144	PIPE: INJECTION	1

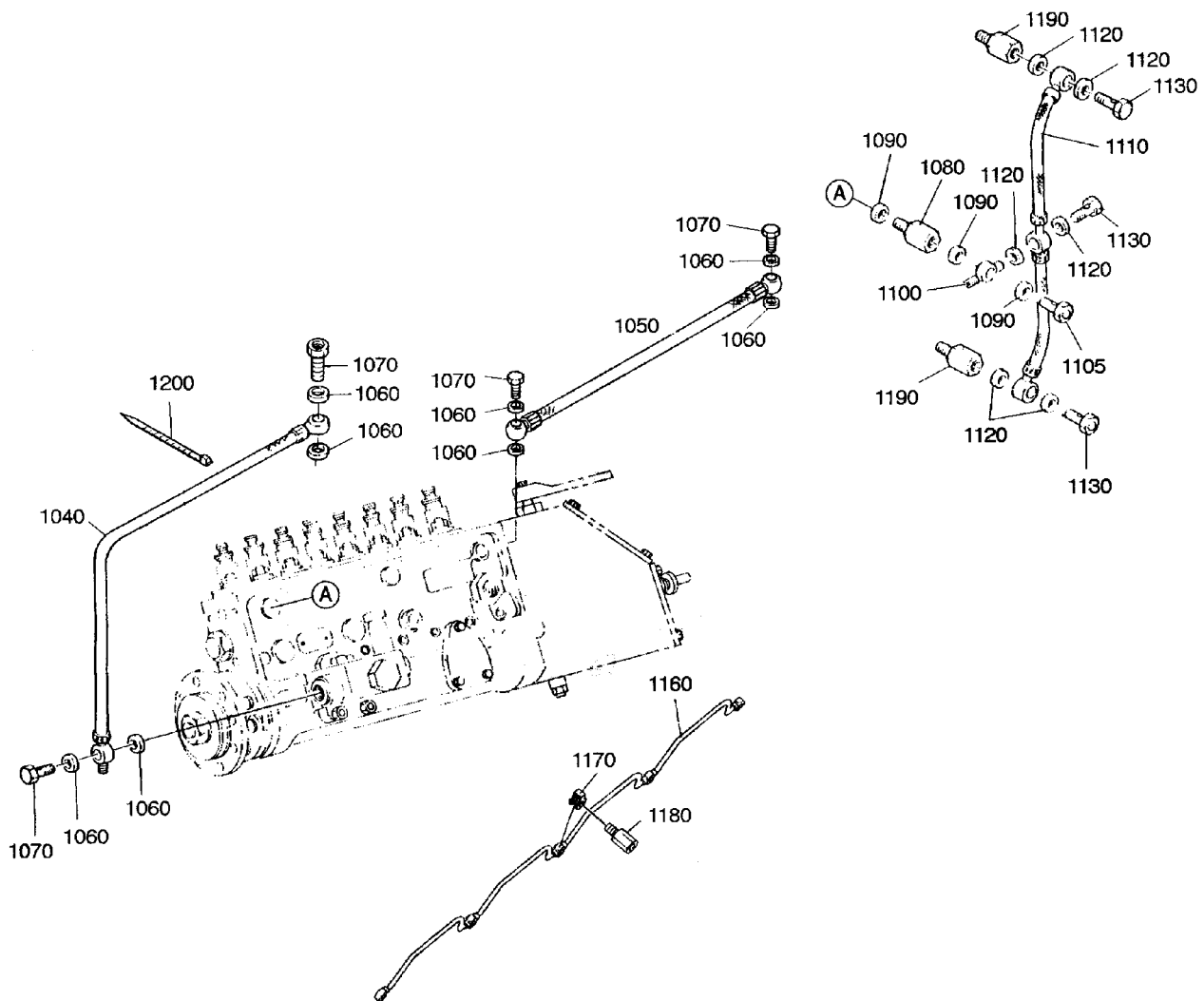
# 18.0L DIESEL — FUEL INJECTION PUMP



## 18.0L DIESEL — FUEL INJECTION PUMP

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	OD86900145	INJECTION PUMP ASY	1
1020	OC46930412	GOVERNOR ASY	1
1030	OC46930413	CONTROLLER: ACTUATOR	1
1032	OC46930414	ADAPTER	1
1035	OC46930114	RING: SEAL	1
1037	OC46930416	SCREW: HOLLOW NW10	2
1040	OD86900146	PIPE: OIL	1
1050	OC46930417	WASHER 17	1
1060	OC46930418	PIECE: CONNECTION	1
1070	OC46930419	WASHER: SPRING B14	1
1080	OC46930420	BOLT: HEX M14X1.5X40	1
1090	OC46930421	FUEL FILTER ASY	2
1100	OC46930422	PIPE: FUEL	1
1110	OC46930416	SCREW: HOLLOW NW10	3
1120	OC27100400	RING: SEAL A14X20	18
1130	OC46930423	PIPE: FUEL	1
1140	OD86900147	PIPE: FUEL	1
1150	OD86900148	CONNECTION SCREW	2
1160	OC46930425	SCREW: HOLLOW	2
1180	OD86900149	PIPE: FUEL	1
2010	OC46930428	GEAR: DRIVE, INJECTION PUMP	1
2020	OD86900150	GEAR: DRIVE, INJECTION PUMP	1
2030	OC46930429	BOLT: HEX M8X18	6
2040	OC46930430	WASHER: END COVER	6
3010	OC46930431	O-RING	1
3020	OC46930432	O-RING	1
3030	OC46930244	BOLT: HEX	3
3040	OC46930433	BOLT: HEX M10X100	1
3050	OC46930434	WASHER: BALL C10.5	4

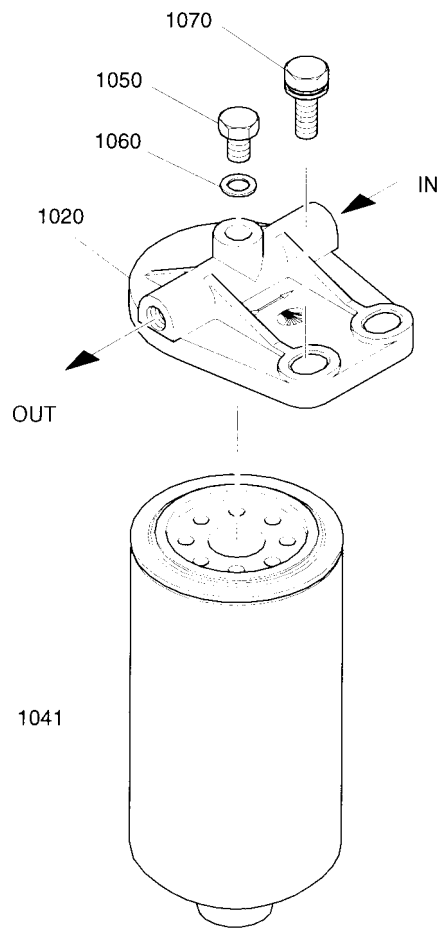
# 18.0L DIESEL — FUEL HOSE



**18.0L DIESEL — FUEL HOSE**

ITEM	PART NUMBER	DESCRIPTION	QTY
1040	0D86900151	HOSE: RUBBER, RING JOINT	1
1050	0D86900152	HOSE: RUBBER, RING JOINT	1
1060	0C27100400	RING: SEAL A14X20	8
1070	0C46930416	SCREW: HOLLOW NW10	4
1080	0C46930437	ADAPTER	1
1090	0C46930438	RING: SEAL	3
1100	0C46930439	UNION: BANJO, DOUBLE	1
1105	0C46930440	VALVE: OVER FLOW	1
1110	0C46930441	TUBE	1
1120	0C27100382	RING: SEAL A8X14	6
1130	0D86900153	SCREW: HOLLOW	3
1160	0D86900154	PIPE: FUEL	2
1170	0C46930445	O-RING	10
1180	0C46930446	SCREW: HOLLOW	8
1190	0C46930447	SCREW: HOLLOW	2
1200	0C46930448	BAND: TENSION	4

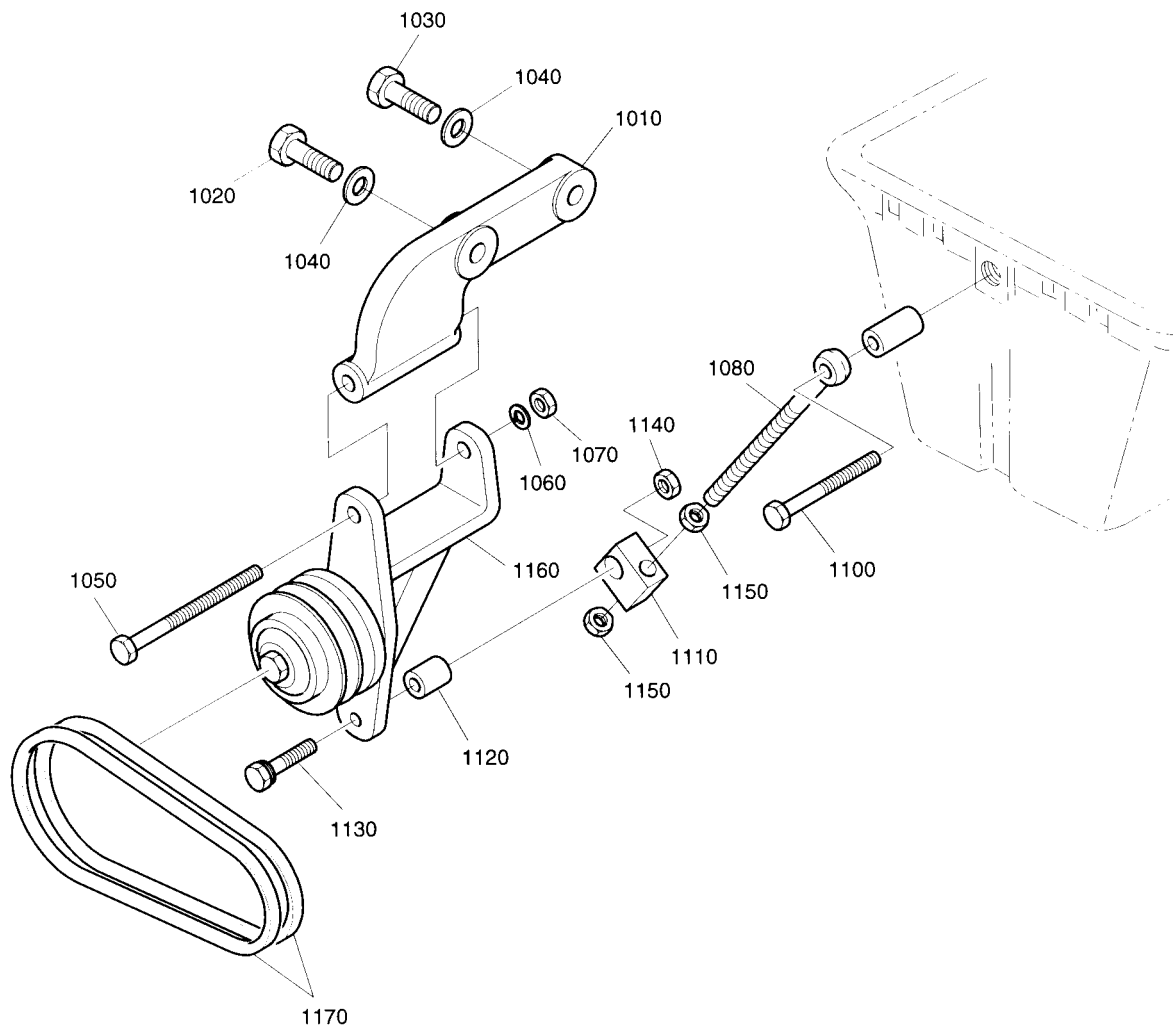
# 18.0L DIESEL — FUEL FILTER



**18.0L DIESEL — FUEL FILTER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1020	0C46930449	COVER: FUEL FILTER	1
1041	0C46930450	ELEMENT: FUEL FILTER	1
1050	0C46930451	SCREW: PLUG	1
1060	0C46930452	RING: SEAL A10X16	1
1070	0C46930398	BOLT ASY M12X35	2

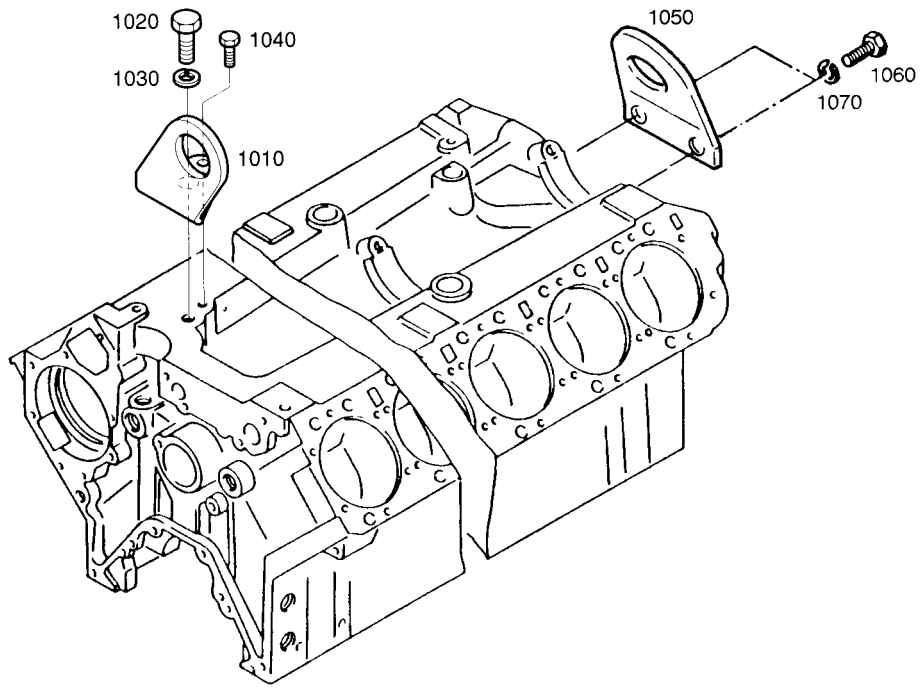
# 18.0L DIESEL — ALTERNATOR & DRIVE



**18.0L DIESEL — ALTERNATOR & DRIVE**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930453	BRACKET: ALTERNATOR MOUNTING	1
1020	0C46930454	BOLT: M14X45	1
1030	0C46930455	BOLT: HEX, M14X45	1
1040	0C46930456	WASHER: PLAIN NW14	2
1050	0C46930457	BOLT: HEX M10X130	1
1060	0C27100420	WASHER: SPRING A12	1
1070	0C46930458	NUT: HEX, M12	1
1080	0C46930459	BOLT: SPACER	1
1100	0C27100228	BOLT ASY M10X35	1
1110	0C46930463	PIECE: GUIDE	1
1120	0C46930464	BUSH	1
1130	0C46930465	BOLT ASY M10X50	1
1140	0C46930348	NUT: HEX M10	1
1150	0C46930458	NUT: HEX M12	2
1160	0C46930466	IDLE PULLEY ASY	1
1170	0C46930467	BELT: V TYPE	1

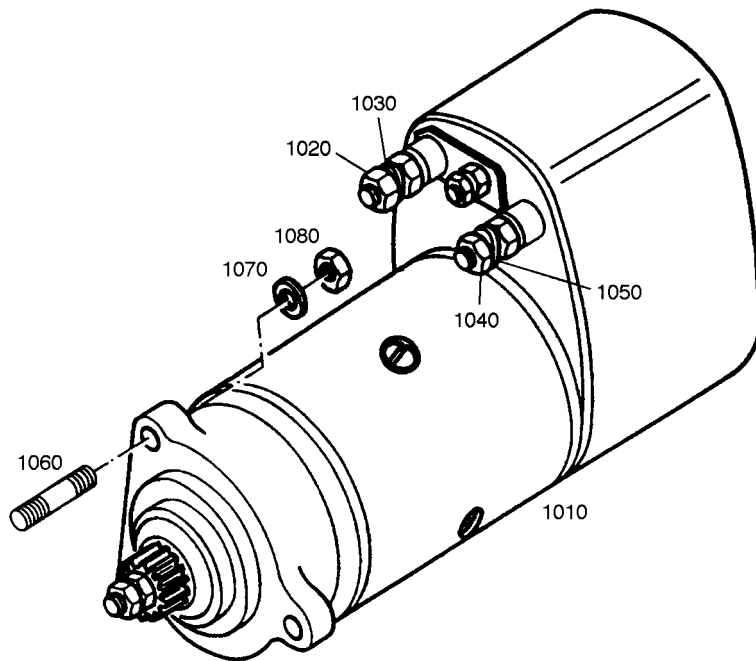
# 18.0L DIESEL — ENGINE LIFTING HOOK



**18.0L DIESEL — ENGINE LIFTING HOOK**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930468	HOOK: LIFTING	1
1020	0C46930469	BOLT: HEX M20X40	1
1030	0C46930470	WASHER: SPRING A20	1
1040	0C46930471	BOLT ASY M10X25	1
1050	0C46930472	HOOK: LIFTING	1
1060	0C46930473	BOLT: HEX, M16X2X40	2
1070	0C46930474	WASHER: SPRING A10	2

# 18.0L DIESEL — STARTER



**18.0L DIESEL — STARTER**

ITEM	PART NUMBER	DESCRIPTION	QTY
1010	0C46930475	STARTER	1
1020	0C46930458	NUT: HEX M12	1
1030	0C27100420	WASHER: SPRING A12	1
1040	0C46930348	NUT: HEX, M10	1
1050	0C27100323	WASHER: SPRING A10	1
1060	0C46930477	BOLT: STUD	3
1070	0C27100420	WASHER: SPRING A12	3
1080	0C27100419	NUT: HEX M12X1.5	3

