

## CH270 - COMMAND PRO SINGLE-CYL (CH)

Last update 01/09/2024

Print date 06/09/2024



Spec CH270-3219	Description CH270 - Command PRO Single-Cyl (CH)
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**Specification attributes**

Horse power	7	OEM	Lombardini
Idle speed	RPM-1800	Governor spring hole location	NA
High speed	RPM-3750	Emission code	E13 - EU Stage 5
Status	NA		



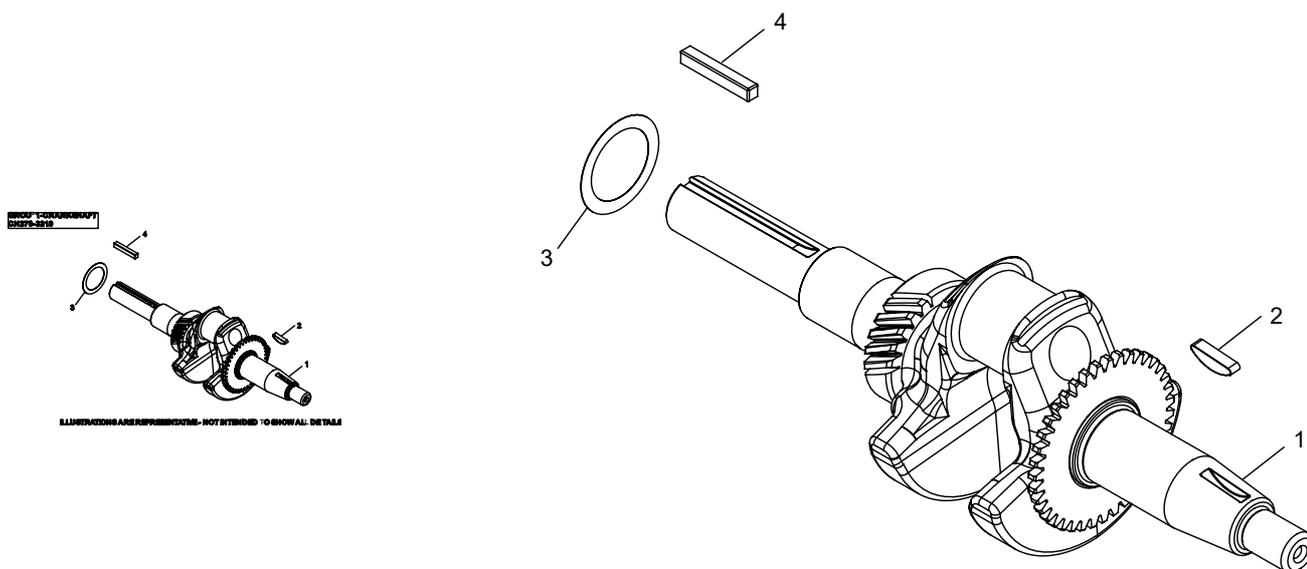
## Group list

Group	Description
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02	CrankCase
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CrankShaft

**GROUP 1-CRANKSHAFT  
CH270-3219**



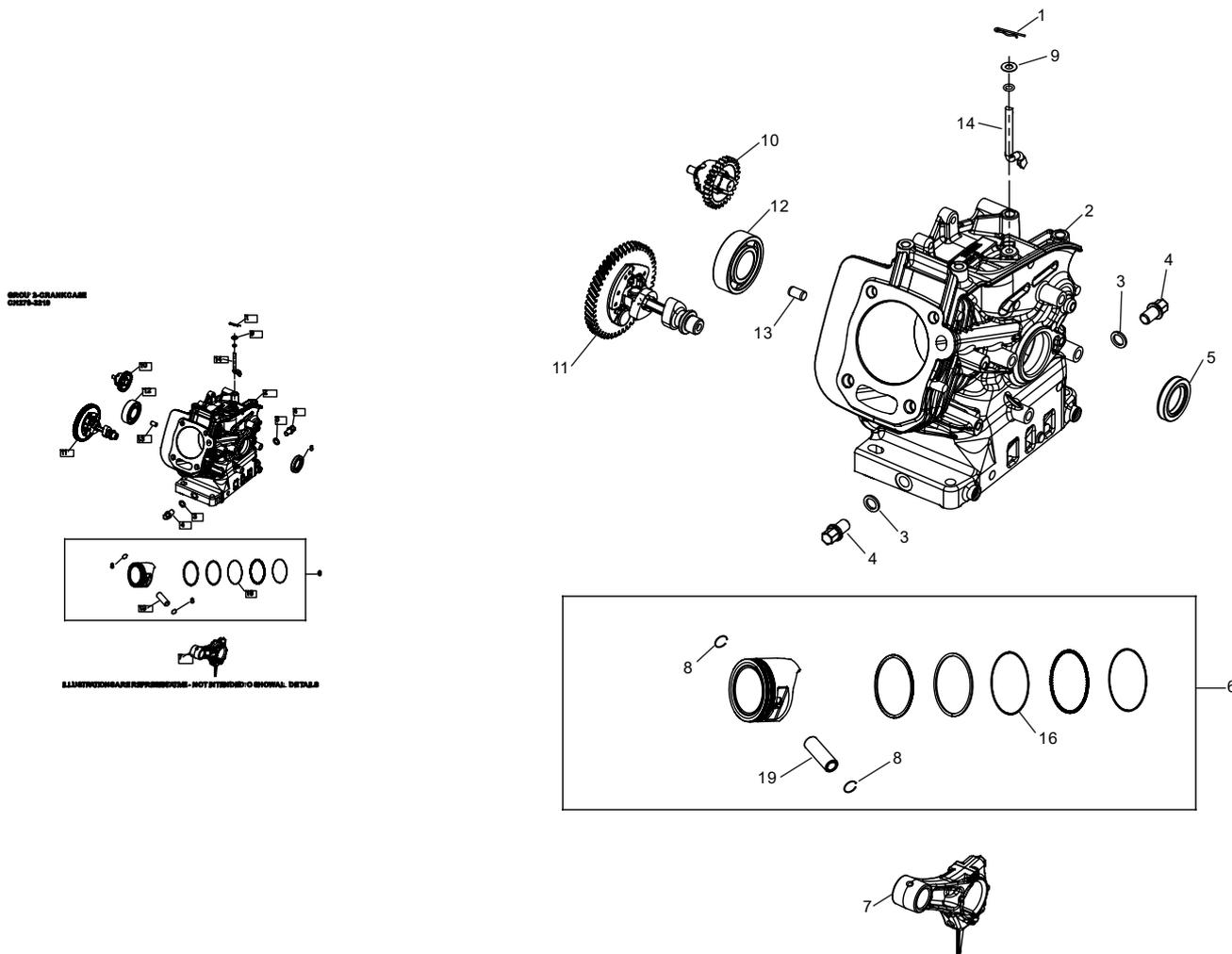
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CrankShaft - Group: 01

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 014 104-S	CRANKSHAFT ASSEMBLY		1	
2			14 340 01-S	KEY, FLYWHEEL		1	
3			17 422 06-S	KIT, THRUST SHIM		4	
4			25 340 05-S	KEY, SQUARE		1	

CrankCase

GROUP 2-CRANKCASE  
CH270-3219



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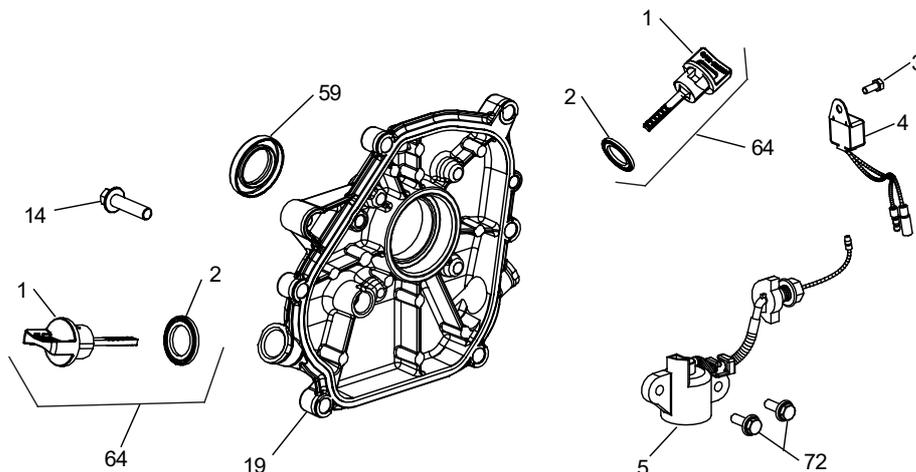
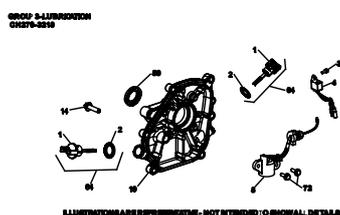
CrankCase - Group: 02

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 154 19-S	CLIP, GOVERNOR ARM		1	
2			17 561 54-S	CRANKCASE		1	
3			17 468 01-S	WASHER, DRAIN PLUG - (#1846801S)		2	
4			17 139 01-S	KIT, DRAIN PLUG		2	
5			17 032 30-S	SEAL, OIL		1	

6	17 874 10-S	KIT, PISTON (STD)	1	
7	17 067 01-S	ROD, CONNECTING ASSEMBLY	1	
8	14 018 03-S	RETAINER, PISTON PIN	2	
9	17 468 21-S	WASHER, FLAT (13MM OD)	2	
10	17 310 08-S	GOVERNOR ASSEMBLY	1	
11	17 010 04-S	CAMSHAFT ASSEMBLY	1	
12	17 030 12-S	BEARING, BALL	2	
13	17 380 21-S	PIN, DOWEL	2	
14	17 144 02-S	SHAFT, GOVERNOR CROSS	1	
16	14 108 02-S	RING SET	2	
19	14 380 04-S	PIN, PISTON	1	

Lubrication

**GROUP 3-LUBRICATION  
CH270-3219**



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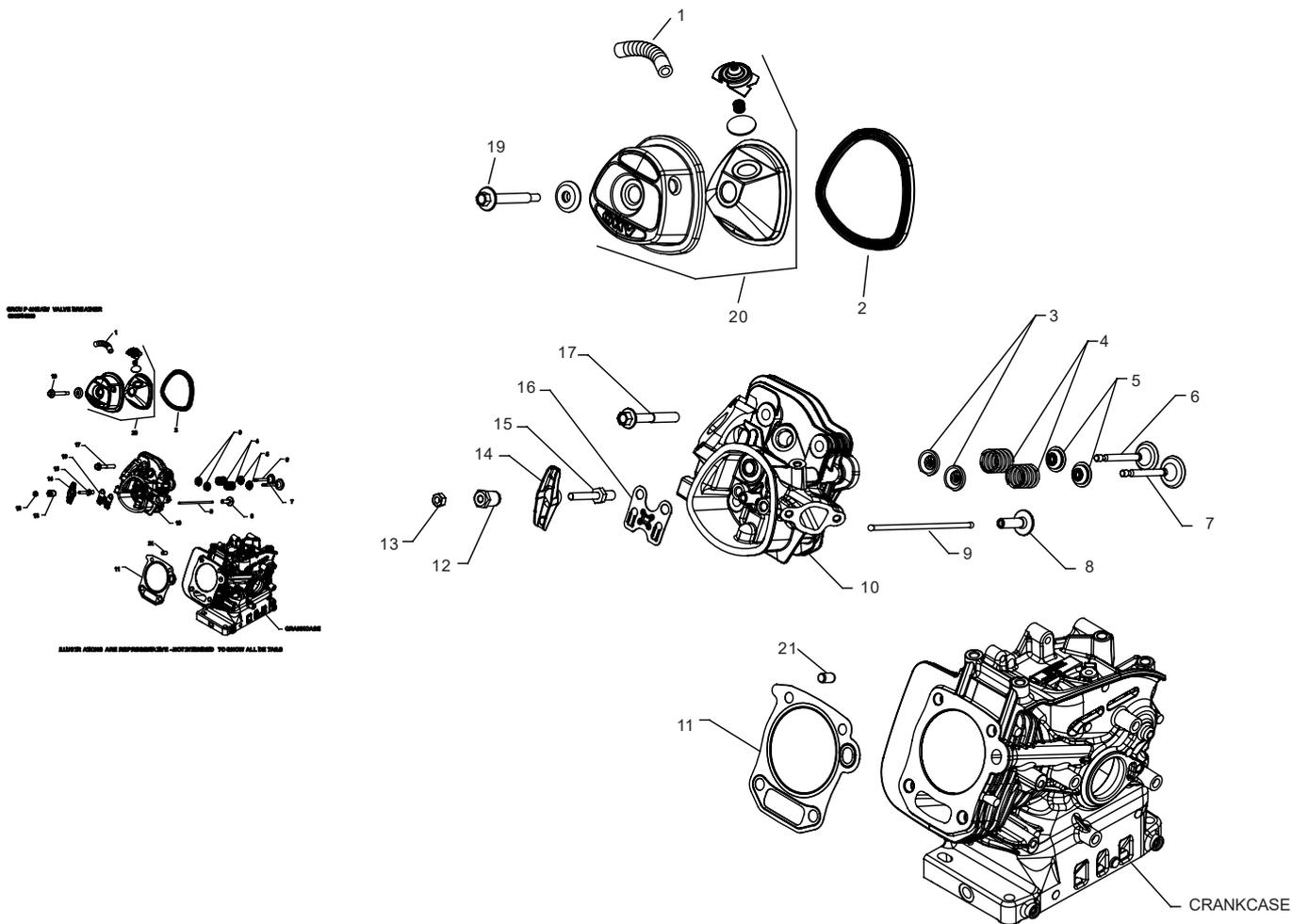
Lubrication - Group: 03

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 038 01-S	DIPSTICK - USE 17 038 08-S		1	
2			17 032 05-S	SEAL, DIPSTICK		1	
3			25 086 244-S	SCREW, HEX/PHILLIPS M5		5	
4			17 526 04-S	CONTROL, OIL ALERT UNIT		1	
5			17 099 09-S	SWITCH, OIL SENSOR ASSEMBLY		1	

14	25 086 171-S	SCREW, CLOSURE PLATE	6
19	17 009 112-S	PLATE, CLOSURE & BEARING	1
59	17 032 29-S	SEAL	1
64	17 038 08-S	DIPSTICK ASSEMBLY	2
72	25 086 337-S	SCREW, M6 X 16	2

CylinderHead/Breather

GROUP 4-HEAD/ VALVE BREATHER  
CH270-3219



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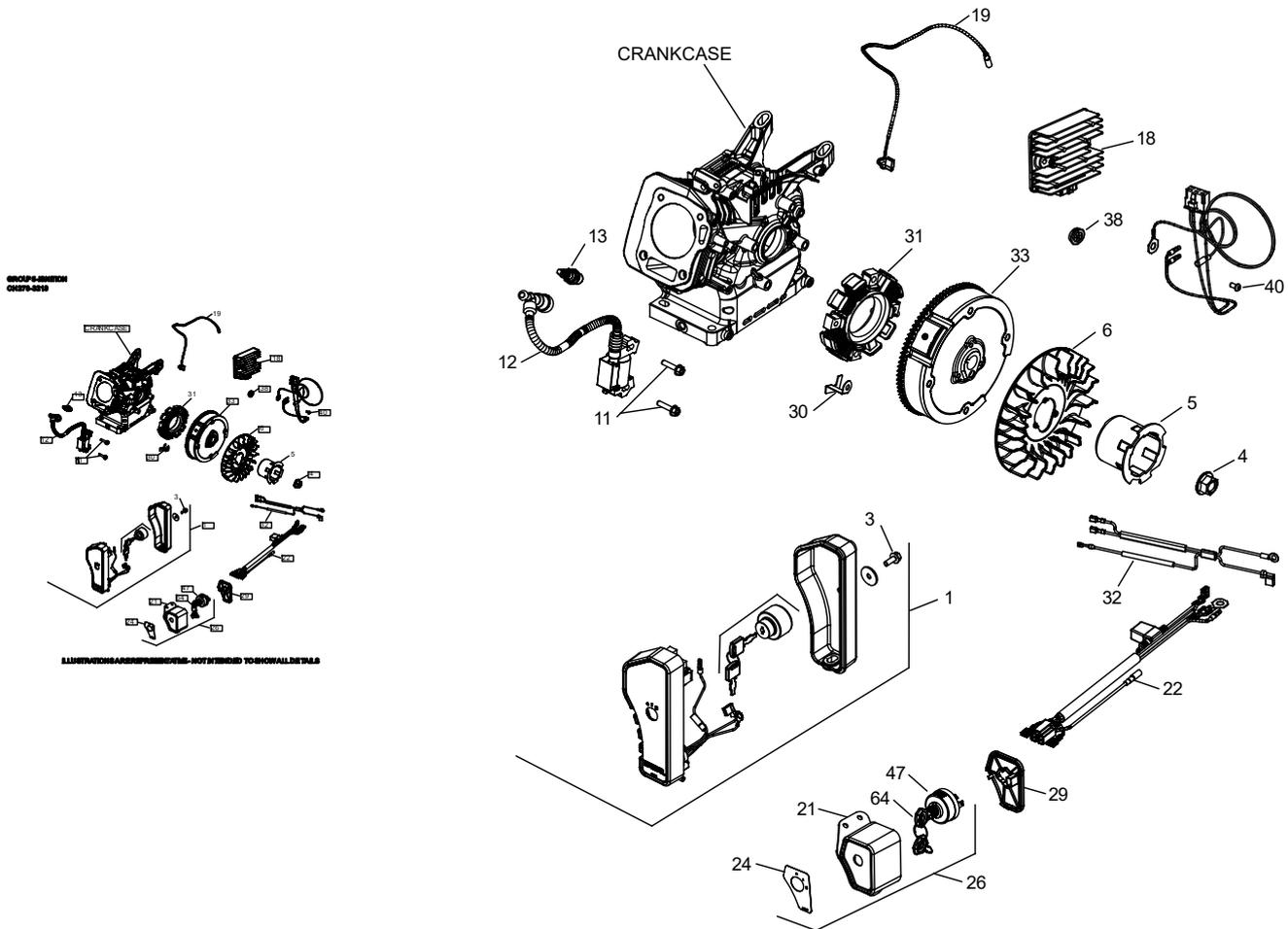
CylinderHead/Breather - Group: 04

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 123 89-S	TUBE, BREATHER - (#1812313S)		1	
2			17 041 47-S	GASKET, VALVE COVER		1	
3			14 018 02-S	RETAINER, VALVE SPRING		2	
4			17 089 04-S	SPRING, VALVE		2	
5			18 032 04-S	SEAL, VALVE STEM		2	

6	17 016 10-S	VALVE, EXHAUST	1	
7	17 017 08-S	VALVE, INTAKE	1	
8	14 351 01-S	LIFTER, VALVE	2	
9	14 411 01-S	ROD, PUSH-(#1741108S)	2	
10	17 318 04-S	KIT, HEAD AND VALVE TRAIN	1	
11	17 841 01-S	KIT, HEAD GASKET	1	
12	14 599 01-S	PIVOT, ROCKER ARM	2	
13	14 100 01-S	NUT, HEX JAM	2	
14	14 186 02-S	ARM, ROCKER	2	
15	14 072 02-S	STUD, ROCKER ARM-USE 14 072 22-S	2	
16	17 146 01-S	PLATE, PUSHROD GUIDE	1	
17	25 086 215-S	SCREW, HEX FLANGE CYL HEAD	4	
19	25 086 310-S	SCREW, VALVE COVER SEAL ASSY	1	
20	17 096 08-S	KIT, VALVE COVER	1	
21	14 380 12-S	PIN, DOWEL (8mm)	2	
21	14 380 13-S	DOWEL, CYLINDER HEAD	2	

Ignition/Charging

**GROUP 5-IGNITION**  
**CH270-3219**



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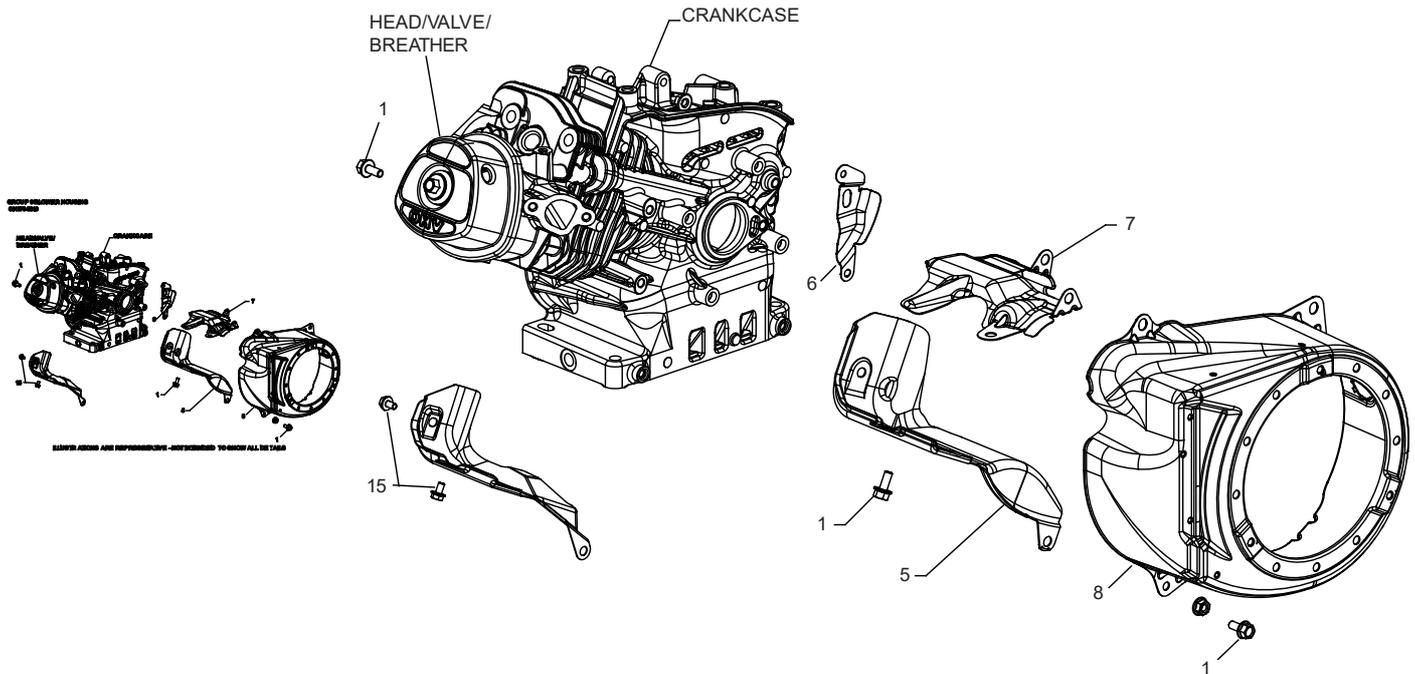
Ignition/Charging - Group: 05

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 081 45-S	VOID HOUSING, KEY BOX ASSY-DISCONTINUED	OLD STYLE	1	
3			25 086 159-S	SCREW, HEX FLANGE (M6)	OLD STYLE	1	
4			17 100 48-S	NUT, FLYWHEEL		1	
5			17 109 01-S	CUP, STARTER DRIVE		1	

6	17 157 06-S	FAN, FLYWHEEL		1
11	25 086 186-S	SCREW, M6 X 25-(#25086436S)		6
12	17 584 01-S	MODULE, IGNITION		1
13	25 132 19-S	SPARK PLUG		1
18	17 403 08-S	REGULATOR, 10 AMP		1 
19	17 518 04-S	LEAD, GROUND TO KILL		1
21	17 081 110-S	KIT, KEYBOX HOUSING ASSEMBLY	NEW STYLE	1 
22	17 176 18-S	HARNESS, WIRING ASSEMBLY (10 AMP)	NEW STYLE	1
24	17 113 76-S	LABEL, KEY BOX	NEW STYLE	1
26	17 081 111-S	KIT, KEY BOX ASSEMBLY	NEW STYLE	1 
29	17 096 92-S	COVER, KEY BOX		1
30	17 126 216-S	BRACKET, FIXED STATOR WIRE		1
31	17 085 25-S	STATOR ASSEMBLY, 12 POLE, (10 AMP)		1
32	17 176 03-S	HARNESS, REGULATOR WIRING ASSY		1
33	17 025 39-S	FLYWHEEL ASSY, ELECTRIC START 10-AMP		1
38	25 158 20-S	BUSHING, WIRE MANAGEMENT		1
40	25 086 220-S	SCREW, M5 X 8		1
47	25 099 38-S	SWITCH, KEY ASSEMBLY	NEW STYLE	1
64	17 340 18-S	KIT, KEY PLASTIC HANDLE (2 PC)	NEW STYLE	1 

Blower Housing

**GROUP 6-BLOWER HOUSING**  
CH270-3219



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Blower Housing - Group: 06

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			25 086 159-S	SCREW, HEX FLANGE (M6)		6	
5			17 314 92-S	SHIELD, CYLINDER HEAD		1	
6			17 314 99-S	SHIELD, FLYWHEEL ELECTRIC START		1	
7			17 314 08-S	SHIELD, UPPER HEAT		1	
8			17 027 10-S	HOUSING, BLOWER ASSEMBLY		1	

15

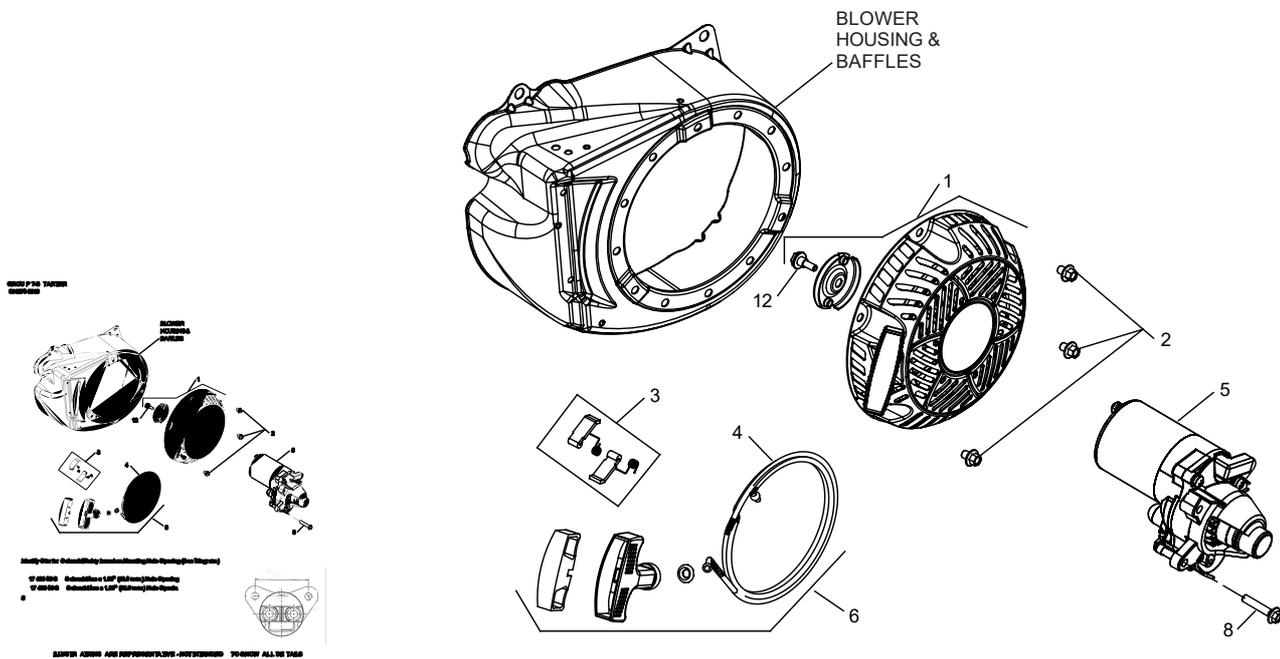
25 086 411-S

SCREW, HEX FLANGE (M6)

3

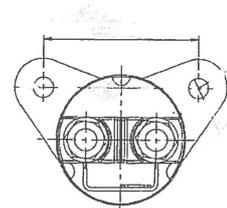
Starting

**GROUP 7-STARTER**  
**CH270-3219**



Identify Starter Solenoid/Relay based on Mounting Hole Spacing (See Diagram)

- 17 435 05-S Solenoid has a 1.65" (42.0 mm) Hole Spacing
- 17 435 06-S Solenoid has a 1.39" (35.5 mm) Hole Spacing



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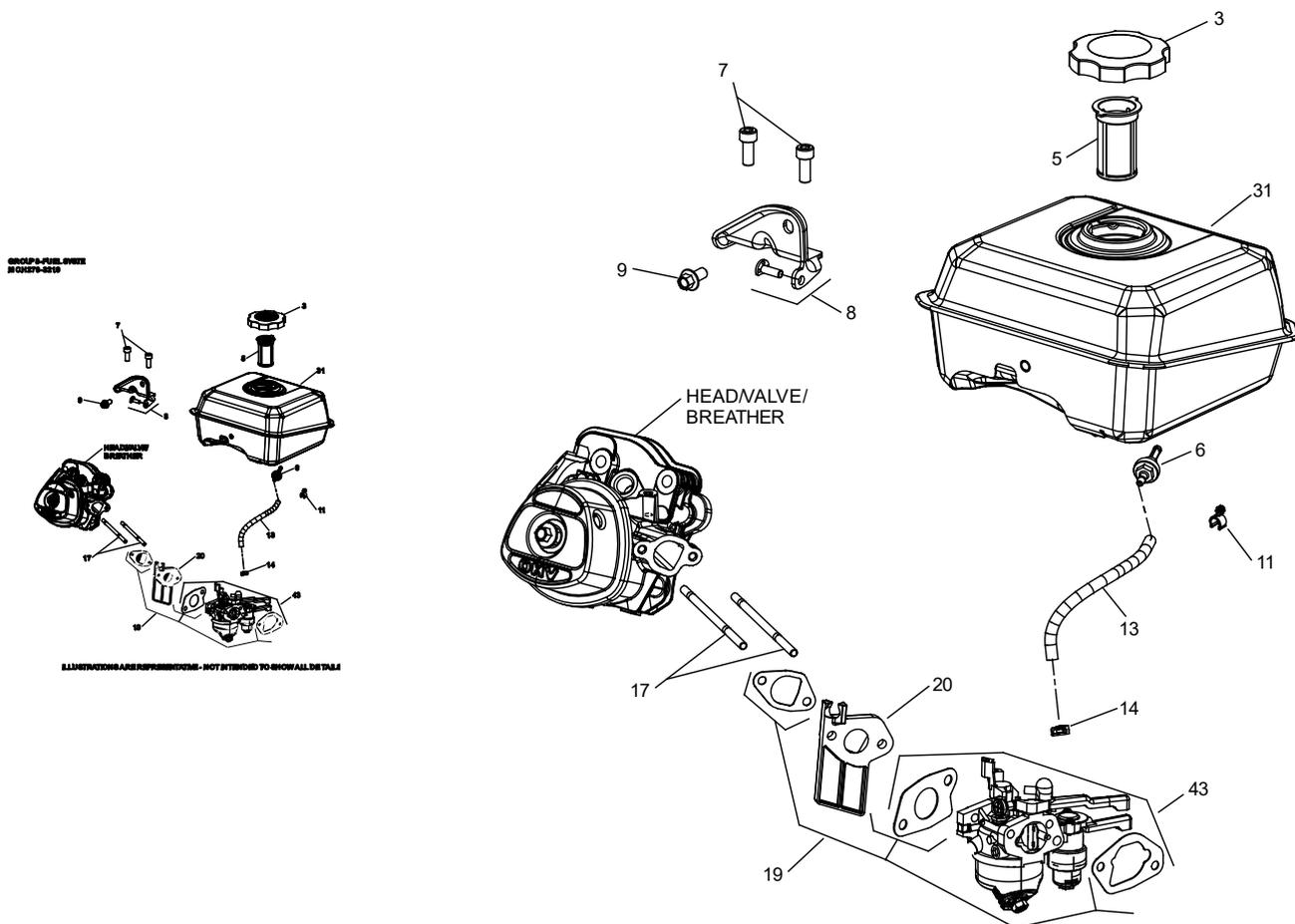
Starting - Group: 07

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 165 02-S	STARTER ASSEMBLY, RETRACTABLE		1	
2			25 086 648-S	SCREW, M6 X 8 HEX FLANGE HEAD		3	
3			14 379 01-S	KIT, PAWL REPAIR		1	
4			17 160 01-S	ROPE, STARTING		1	
5			17 098 10-S	ELECTRIC STARTER-BENDIX DRIVE		1	

6	14 160 01-S	KIT, STARTER ROPE W/HANDLE	1	
6	17 160 07-S	KIT, ROPE & HANDLE	1	
8	25 086 286-S	SCREW, STARTER MOUNTING	2	
12	25 086 139-S	SCREW, SHOULDER (M5)	1	

Fuel System

**GROUP 8-FUEL SYSTEM**  
**CH270-3219**



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Fuel System - Group: 08

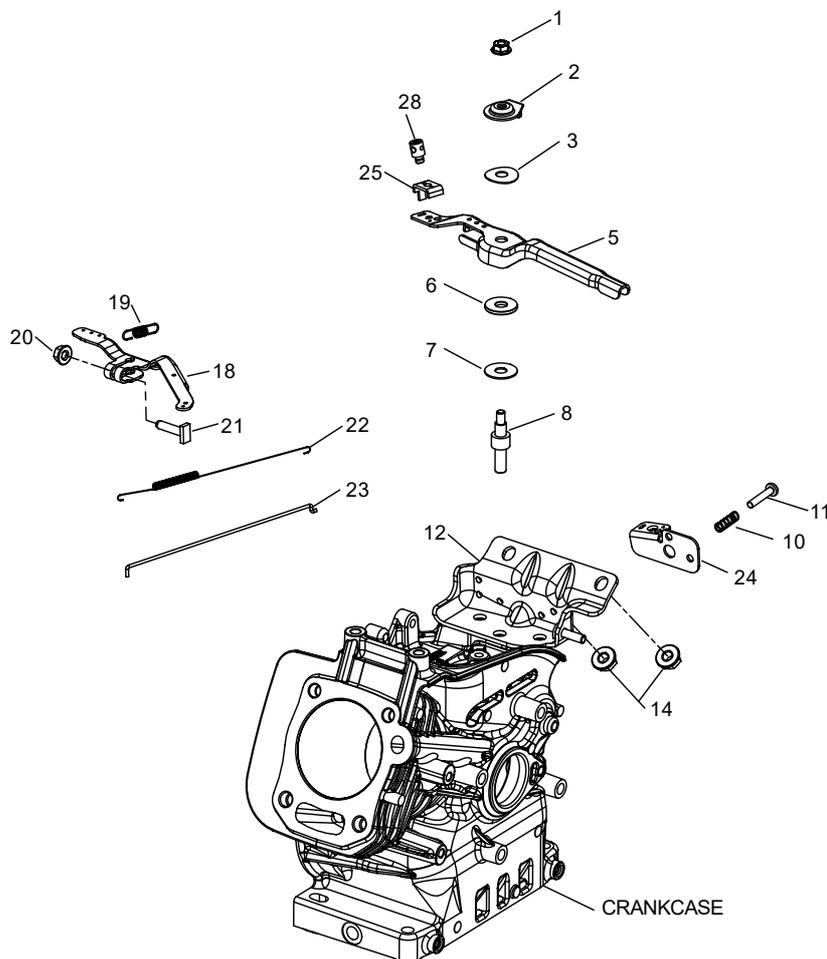
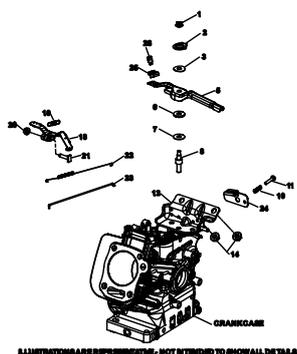
Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
3			17 173 46-S	CAP, FUEL TANK		1	
5			17 050 20-S	FILTER, FUEL TANK		1	
6			17 294 05-S	FITTING, FUEL ASSY-(#1729419S)	BEFORE S/N 5210300011	1	
6			17 294 19-S	FITTING, FUEL ASSY	AFTER S/N 5210300001	1	

7	25 086 253-S	SCREW, HEX SOCKET HD CAP	4	
8	17 126 38-S	BRACKET ASSY, FUEL TANK	1	
9	M-851016-S	SCREW, FLG 8X1.25X16	2	
11	17 154 08-S	CLIP, FUEL HOSE	1	
13	25 111 40-S	LINE, FUEL (10"-CUT TO LENGTH)	1	
14	14 237 01-S	CLAMP, FUEL LINE	2	
17	17 072 09-S	STUD, CARBURETOR	2	
19	17 041 03-S	KIT, INTAKE GASKET	3	
20	17 168 05-S	KIT, CARBURETOR INSULATOR	1	
31	17 065 88-S	KIT, FUEL TANK	1	
43	17 853 155-S	KIT, CARBURETOR COMPLETE	1	
NI	14 757 03-S	KIT, CARBURETOR REPAIR (RUIXING)	1	
NI	17 755 40-S	KIT, HIGH ALTITUDE (4,000-8,000)	1	
NI	17 755 41-S	KIT, HIGH ALTITUDE (ABOVE 8,000)	1	

Engine Controls

**GROUP 9-ENGINE CONTROLS**  
**CH270-3219**

GROUP 9-ENGINE CONTROLS  
01276-0219



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Engine Controls - Group: 09

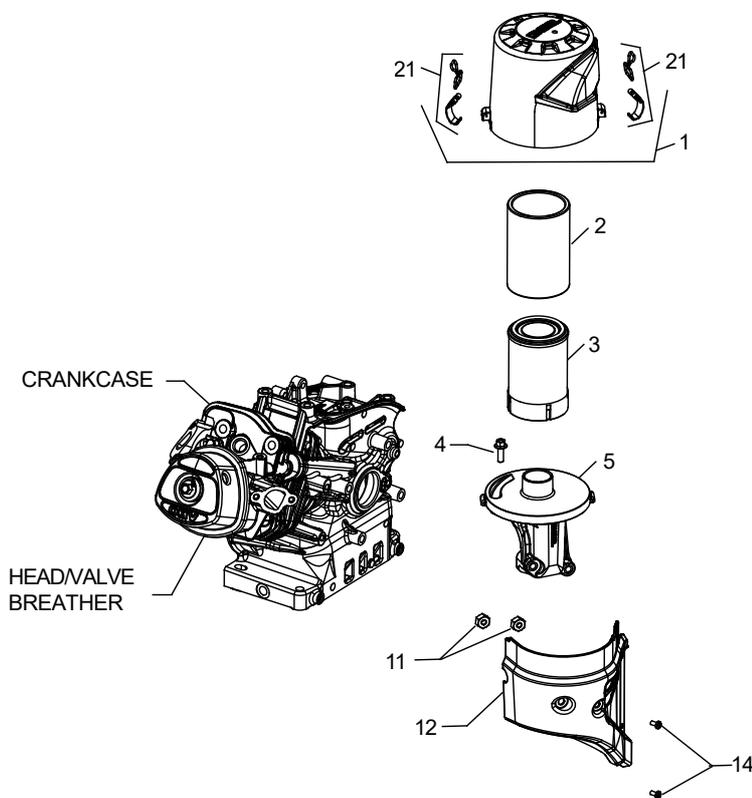
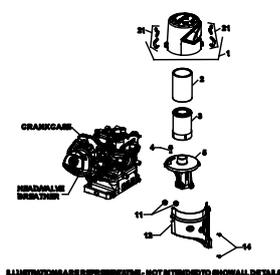
Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			14 100 09-S	NUT, HEX FLANGE LOCK (M6)		1	
2			17 468 34-S	WASHER, CONTROL LEVER		1	
3			25 468 17-S	WASHER, SPRING		1	
5			17 090 36-S	LEVER, CONTROL (THROTTLE)		1	
6			25 468 15-S	WASHER, NYLON CONTROL LEVER		1	

7	17 468 19-S	WASHER, FLAT	1	
8	17 072 11-S	STUD, CONTROL LEVER	1	
10	17 089 36-S	SPRING, COMPRESSION	1	
11	25 086 242-S	SCREW, SPEED ADJUSTING	1	
12	17 126 117-S	BRACKET, FUEL AND CONTROLS	1	
14	M-841080-S	NUT, FLG M8X1.25	2	
18	17 090 15-S	KIT, GOVERNOR LEVER	1	
19	17 089 70-S	SPRING, GOVERNOR	1	
20	14 100 08-S	NUT, HEX FLANGE (M6) - USE 14 100 16-S	5	
21	25 086 166-S	SCREW, RECTANGLE HEAD (M6)	1	
22	17 089 09-S	SPRING, LINKAGE	1	
23	17 079 01-S	LINKAGE, GOVERNOR	1	
24	17 126 171-S	BRACKET, CABLE CLAMP	1	
25	17 237 12-S	CLAMP, CABLE	1	
28	17 237 13-S	KIT, CABLE CLAMP	3	

Air Intake

**GROUP 10-AIR IN TAKE**  
**CH270-3219**

GROUP 10-AIR INTAKE  
CH270-3219



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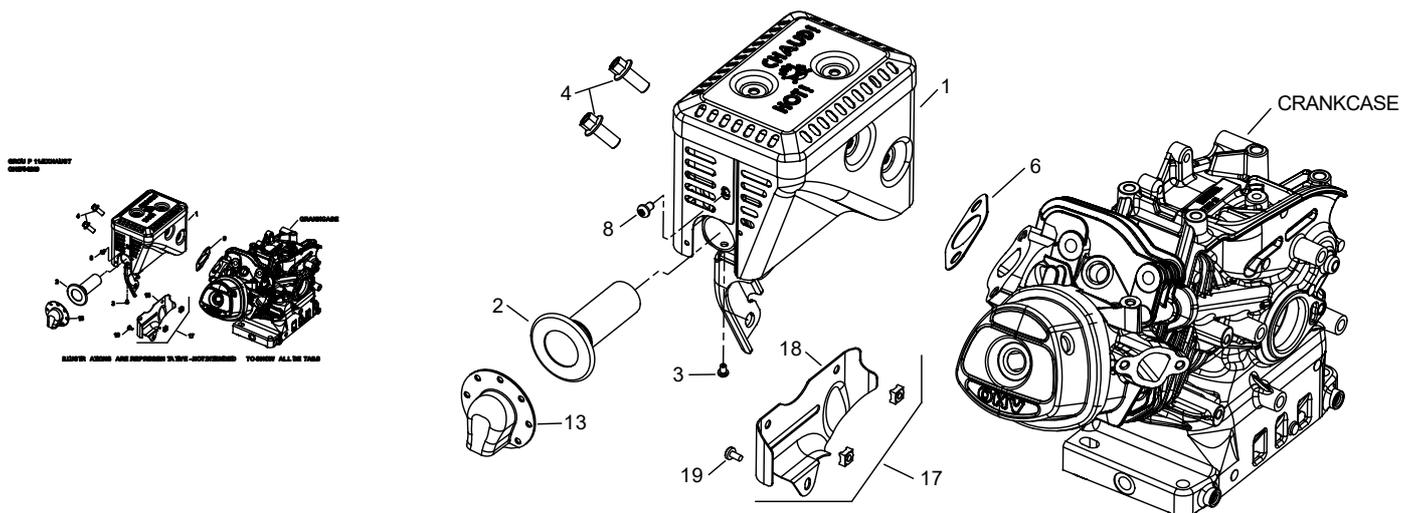
Air Intake - Group: 10

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 096 41-S	COVER, AIR CLEANER ASSEMBLY		1	
2			17 083 06-S	ELEMENT, PRE-CLEANER - USE 17 083 12-S		1	⚠
3			17 083 23-S	ELEMENT, AIR FILTER		1	
4			25 086 223-S	SCREW, M6 X18		3	
5			17 094 24-S	KIT, AIR CLEANER BASE ASSEMBLY		1	⚠

11	17 100 43-S	NUT, HEX (M6 THREAD, M8 BODY)	2	
12	17 096 04-S	COVER, AIR CLEANER BASE SHIELD	1	
14	25 086 217-S	SCREW,COVR TO BLWR HOUSING	2	
21	17 344 01-S	KIT, LATCH CLIP	4	

Exhaust

**GROUP 11-EXHAUST  
CH270-3219**



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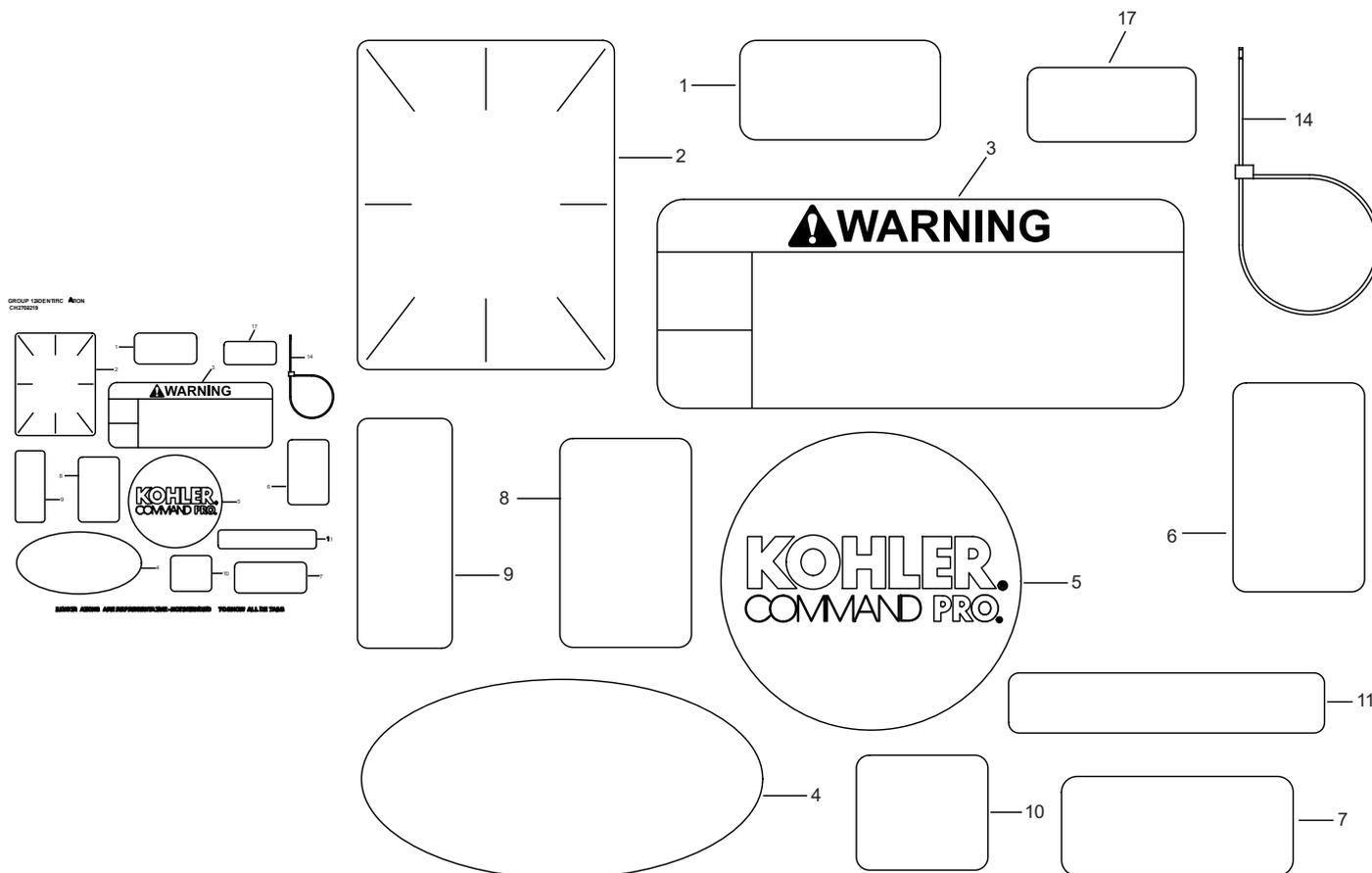
Exhaust - Group: 11

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			17 068 55-S	KIT, MUFFLER		1	
2			17 533 09-S	ARRESTOR ASSEMBLY, SPARK		1	
3			25 086 190-S	SCREW, SPARK ARRESTOR		3	
4			25 086 224-S	SCREW, M8 X 20		2	
6			17 041 09-S	GASKET, MUFFLER		1	

8	25 086 564-S	SCREW, M5 X 8	3	
13	17 265 08-S	DEFLECTOR, MUFFLER ASSY-USE 17 730 05-S	1	
17	17 314 42-S	SHIELD, ASSY PIPE PROTECTOR	1	
18	17 314 41-S	SHIELD, PIPE PROTECTOR	1	
19	25 086 300-S	SCREW, PIPE PROTECTOR	3	

Identification

**GROUP 12-IDENTIFICATION  
CH270-3219**



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Identification - Group: 12

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
1			25 113 75-S	LABEL, MAINTENANCE (CKY)		1	
2			25 113 79-S	LABEL, CLEAR LAMINATION		1	
3			17 113 16-S	DECAL, WARNING		1	
4			17 113 75-S	DECAL, QUAD CLEAN SILVER		1	
5			17 113 123-S	LABEL, RECOIL 62MM		1	

6	17 113 24-S	DECAL, SNOW FLAKE	1
7	25 113 74-S	LABEL, CANADIAN COMPLIANCE	1
8	17 113 23-S	DECAL, SUN	1
9	25 113 84-S	DECAL, FUEL/CHOKE - ON/OFF	1
10	17 113 25-S	DECAL, BASE ARROW	1
11	25 113 56-S	DECAL, THROTTLE	1
14	25 454 05-S	TIE	3
17	25 113 76-S	DECAL, ETHANOL WARNING	1

Blocks,Gasket Set,Replacement

**KOHLER**  
Engines  
GROUP 14  
**BLOCKS, GASKET SET,  
AND  
REPLACEMENT ENGINE**

**KOHLER**  
Engines  
GROUP 14  
BLOCKS, GASKET SET,  
AND  
REPLACEMENT ENGINE

Blocks,Gasket Set,Replacement - Group: 14

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			17 755 06-S	KIT, GASKET SET (CH260/CH270)		1	

Carb Repair Kits

**KOHLER**  
Engines  
GROUP 15  
FUEL RELATED  
REPAIR KITS

**KOHLER**  
Engines  
GROUP 15  
FUEL RELATED  
REPAIR KITS

Carb Repair Kits - Group: 15

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			14 757 03-S	KIT, CARBURETOR REPAIR (RUIXING)		1	

Maintenance-Fast Moving Parts

**KOHLER**  
Engines  
GROUP 17  
MAINTENANCE  
FAST MOVING PARTS

**KOHLER**  
Engines  
GROUP 17  
MAINTENANCE  
FAST MOVING PARTS

Maintenance-Fast Moving Parts - Group: 17

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			17 050 20-S	FILTER, FUEL TANK		1	
NI			17 083 06-S	ELEMENT, PRE-CLEANER - USE 17 083 12-S		1	
NI			17 083 23-S	ELEMENT, AIR FILTER		1	
NI			25 132 19-S	SPARK PLUG		1	
NI			25 357 72-S	OIL, QUART, 10W50 KOHLER PRO		1	



Owners/Service Manual

**KOHLER**  
 Engines  
 GROUP 18  
**OWNER/SERVICE  
 MANUALS**

**KOHLER**  
 Engines  
 GROUP 18  
 OWNER/SERVICE  
 MANUALS

## Owners/Service Manual - Group: 18

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			17 590 28	OM, CH245-CH440DF AMERICAS/ROW		1	
NI			17 590 30	OM, CH245-CH440DF GLOBAL		1	
NI			17 690 01	SM, CH270TF,CH395TF,CH440TF ENGLISH		1	
NI			17 690 03	SM, CH270TF,CH395TF,CH440TF SPANISH		1	
NI			17 690 04	SM, CH270TF,CH395TF,CH440TF FR CAN		1	

NI	17 690 05	SM, CH270TF,CH395TF,CH440TF ITALIAN	1	
NI	17 690 06	SM, CH270TF,CH395TF,CH440TF CHINESE	1	
NI	17 690 07	SM, CH270TF,CH395TF,CH440TF RUSSIAN	1	
NI	17 690 08	SM, CH270TF,CH395TF,CH440TF GERMAN	1	
NI	17 690 09	SM, CH270TF,CH395TF,CH440TF POLISH	1	
NI	17 690 10	SM, CH270TF,CH395TF,CH440TF TURKISH	1	
NI	17 690 11	SM, CH270TF,CH395TF,CH440TF KOREAN	1	
NI	17 690 12	SM, CH270TF,CH395TF,CH440TF PORTUGUESE	1	
NI	17 690 13	SM, CH270TF,CH395TF,CH440TF INDONESIAN	1	
NI	25 590 44	WARRANTY, COMBINED 2022-2024 MY	1	

Sensors

**KOHLER**  
Engines  
GROUP 19  
SENSORS

**KOHLER**  
Engines  
GROUP 19  
SENSORS

Sensors - Group: 19

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			17 099 09-S	SWITCH, OIL SENSOR ASSEMBLY		1	

Sealant, Thread Lock, Lubricate

**KOHLER**  
Engines  
GROUP 20  
**SEALANT,  
THREAD LOCK,  
AND LUBRICANT**

**KOHLER**  
Engines  
GROUP 20  
SEALANT,  
THREAD LOCK,  
AND LUBRICANT

Sealant, Thread Lock, Lubricate - Group: 20

Pos	Kit	Included in	Part #	Description	Note	QTY	Tech info
NI			25 357 03-S	QUART OF OIL - SAE30		1	
NI			25 357 06-S	QUART OF OIL - 10W30-USE 25 357 65-S		1	
NI			25 357 12-S	LUBRICANT, GREASE (SPLINE)		1	
NI			25 357 14-S	LUBRICANT, CAMSHAFT		1	
NI			25 357 41-S	20W50 OIL (QUART)-USE 25 357 68-S		1	

NI	25 357 72-S	OIL, QUART, 10W50 KOHLER PRO	1	
NI	25 357 75-S	OIL, 5 QT, 10W50 KOHLER PRO	1	
NI	25 597 05-S	SEALANT(LOCTITE 620)-(#2559711S)	1	
NI	25 597 06-S	SEALANT(LOCTITE 222 RETAIN CMPND 0.5ML)	1	
NI	25 597 07-S	SEALANT(LOCTITE INSTANT GASKET 4 OZ)	1	
NI	52 357 01-S	LUBRICANT, BENDIX STARTR-DISCONTINUED	1	