



CATÁLOGO DE PARTES

BET ABS



ANEXO INFORMACIÓN DE SEGURIDAD

Verifique la carátula de este manual para conocer cuál de los siguientes dispositivos de seguridad posee su vehículo.



SISTEMA ANTIBLOQUEO DE FRENOS

Sistema diseñado para evitar que las ruedas se bloqueen al frenar de forma brusca mientras se circula en línea recta, el sistema regula automáticamente la fuerza de frenado.

Aunque el sistema ABS proporciona estabilidad al detenerse, recuerde las siguientes características:

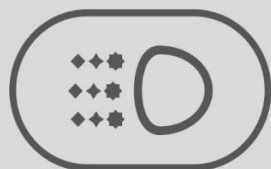
- * Para frenar de forma eficaz, deje de acelerar y utilice la leva de freno delantero y el pedal de freno trasero simultáneamente, de la misma manera que en el sistema de frenos de una motocicleta convencional
- * El ABS no puede compensar las condiciones adversas de la carretera, un error de juicio o un uso incorrecto de los frenos.



SISTEMA DE ENCENDIDO AUTOMÁTICO DE LUCES (AHO)

Sistema diseñado para que una vez se ponga el motor en marcha, la luz principal de la farola se encienda automáticamente.

Este sistema garantiza una mayor visibilidad del vehículo para los demás actores viales.



SISTEMA DE LUCES DE CIRCULACIÓN DIURNA (DRL)

Sistema de iluminación LED, el cual se enciende automáticamente al girar el interruptor de encendido a "ON".

Mientras la farola principal esté apagada, la luz LED alumbrará intensamente, si se enciende la farola principal, la luz LED se atenuará automáticamente.

No se recomienda dejar el interruptor de encendido en "ON" mientras el motor no esté en funcionamiento porque la batería se drenará prematuramente.

MobilTM SuperTM

4T Ultra

Aceite de alto desempeño para motores de cuatro tiempos



GRADO
SAE

10W-40

Semi-sintético

CUMPLE CON LAS
NORMATIVAS

JASO MB
API SL



CÓDIGO SAP:

CAJA X 12
21010429

UNIDAD
21010431



Recomendado para
motocicleta tipo **Scooter**
con viscosidad **10W-40**



PROPIEDADES & BENEFICIOS

- **Excelente protección contra el desgaste**
Mayor vida útil de los componentes del motor y del conjunto del motor.
- **Buena estabilidad térmica y ante la oxidación y buen control de los depósitos**
Motores que funcionan más limpios, lo cual resulta en una operación suave e impecable.
- **Excelentes propiedades de protección contra la corrosión**
Mayor vida útil del tren de válvulas y de los componentes de los cojinetes.
- **Propiedades mejoradas a bajas temperaturas**
Arranque en frío más fácil, mayor vida útil del sistema eléctrico.
- **Baja fricción en las partes móviles del motor**
Aceleraciones suaves y bajo nivel de vibraciones.

El amor por tu motor ahora es **AMARILLO** con la

NUEVA TECNOLOGÍA
DURAFILM

Advierta lo que le dicen las llantas mientras conduce:

- Si su respuesta a la dirección es lenta o si en las curvas y en el frenado la respuesta es pesada, es muy probable que sus llantas estén desinfladas.
- Vibración o tambaleo durante la conducción, puede significar que la presión en las llantas es mayor a la recomendada, o que ha ocurrido un daño en la llanta y la falla es inminente.
- La llanta puede vibrar a ciertas velocidades debido al desbalanceo, en este caso su desgaste será muy acelerado.

**RECUERDE SIEMPRE REVISAR LA PRESIÓN DE AIRE EN SUS LLANTAS
ANTES DE COMENZAR A RODAR**



**¡POR DESEMPEÑO,
CALIDAD Y PRECIO!**

ELIGE LLANTAS QUEEN

SCOOTER

MOTOCARRO

STREET

DOBLE
PROPÓSITO

PISTERA



Encuétralos en todos los agentes y concesionarios autorizados por AUTECO del país



EL EQUIPO ORIGINAL
DE LAS MOTOCICLETAS

auteco
mobility



*Una garantía de respaldo,
calidad y experiencia.*

PREFACIO

Es nuestro placer presentarles a ustedes el Catálogo de Partes.

Este Catálogo ha sido especialmente diseñado para ayudarle en la selección de las partes correctas con el fin de mantener el vehículo en las mejores condiciones.

Los repuestos originales están sujetos a un exigente estándar de control de calidad, por lo tanto es necesario que usted sólo use repuestos originales.

En nuestro constante esfuerzo para mejorar la eficiencia y desempeño de su vehículo, las especificaciones, diagramas y número de partes pueden cambiar sin previo aviso. Consecuentemente las descripciones de los repuestos en este Catálogo pueden no ser las finales y definitivas.

Las alteraciones y modificaciones que ocurren en la impresión de este Catálogo, serán informadas a nuestra red, a través de circulares de Servicio o en nuestra página web: www.auteco.com.co accediendo al link repuestos. Es requisito que usted actualice su Catálogo y haga las correcciones necesarias, una vez reciba dichas circulares. Lo anterior le asegurará un rápido y adecuado despacho de sus partes, pues las órdenes están siendo diligenciadas con las referencias más actualizadas.

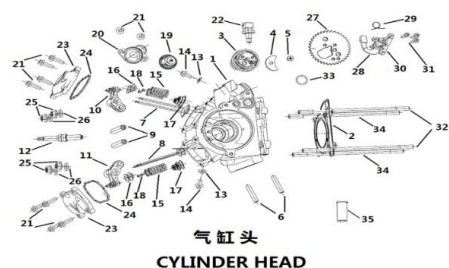
En caso de necesitar asistencia técnica, comunicarse con el Distribuidor Autorizado o llamar al Departamento de Servicios Auteco.

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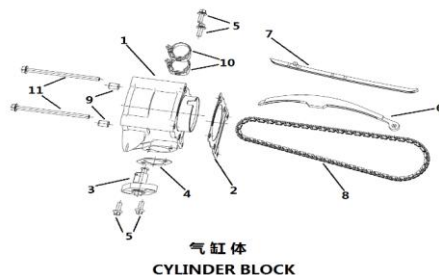
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气缸头
CYLINDER HEAD



气缸体
CYLINDER BLOCK

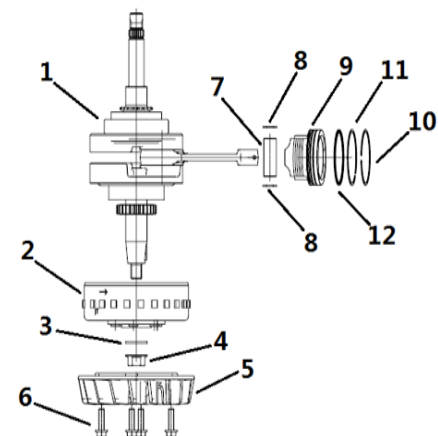


FIGURA N°1: CULATA

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FIGURA N°2: CILINDRO

PÁG.N° 3

FIGURA N°3: CIGÜEÑAL / PISTÓN

PÁG.N° 4

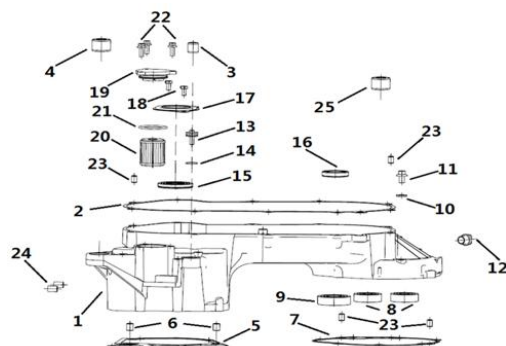


FIGURA N°4: CARCASA MOTOR IZQUIERDA

PÁG.N° 5

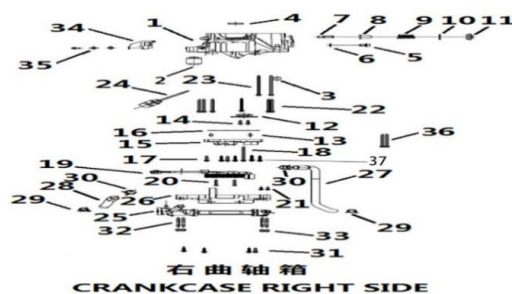


FIGURA N°5: CARCASA DERECHA

PÁG.N° 6-7

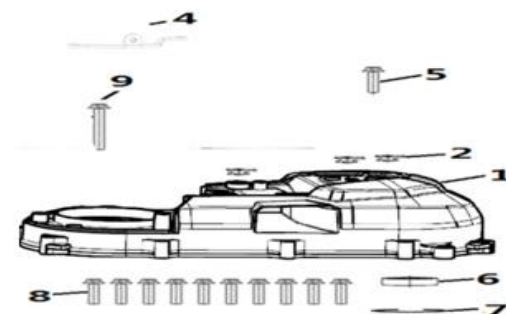


FIGURA N°6: CUBIERTA CARCASA IZQUIERDA

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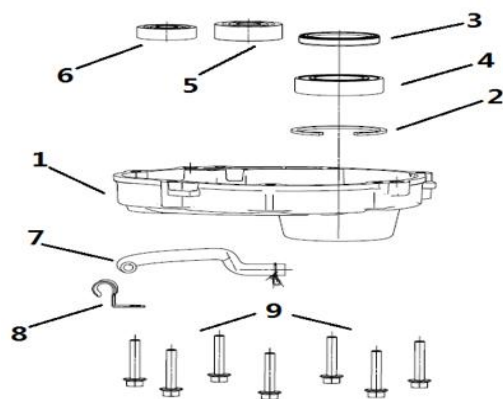


FIGURA N°7: CUBIERTA CAJA TRANSMISIÓN

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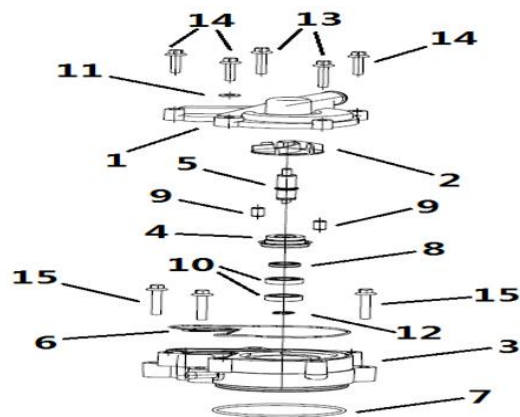


FIGURA N°8: BOMBA AGUA

PÁG.N°. 10

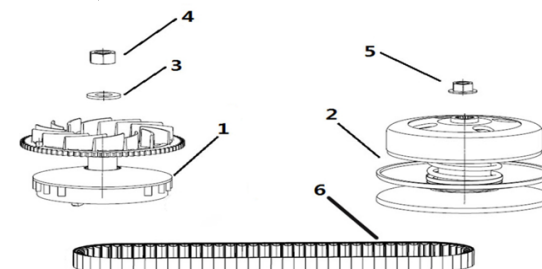


FIGURA N°9: BANDA TRANSMISIÓN CVT

PÁG.N°. 11

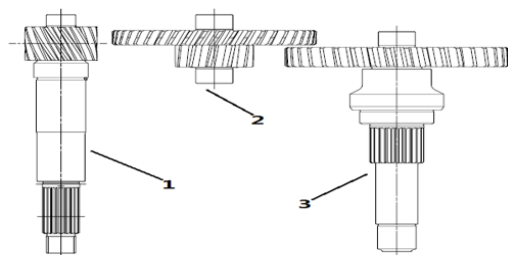


FIGURA N°10: TRANSMISIÓN

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FIGURA N°11: CUBIERTA RESERVORIO

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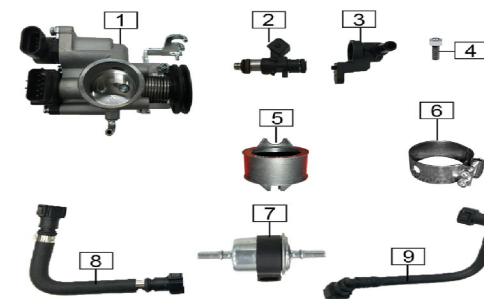


FIGURA N°12: CUERPO INYECTOR

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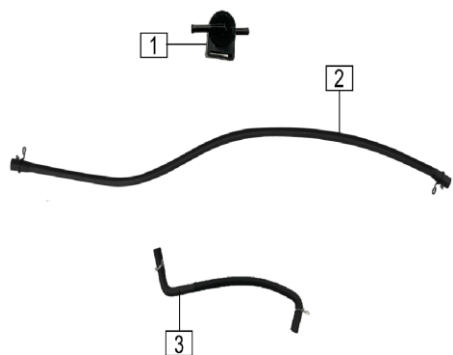


FIGURA N°13: VÁLVULA CIERRE COMBUSTIBLE

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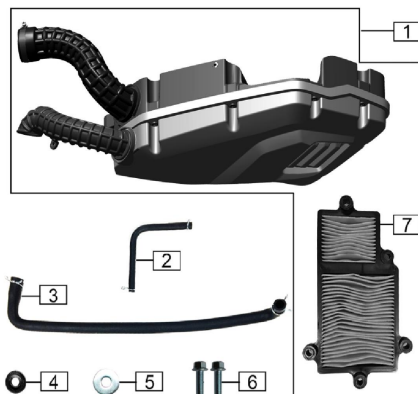


FIGURA N°14: CAJA FILTRO AIRE

PÁG.N°. 16

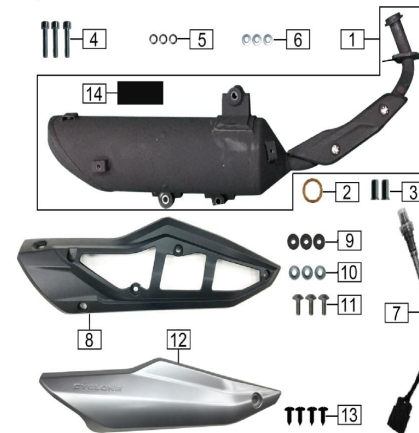


FIGURA N°15: SILENCIADOR

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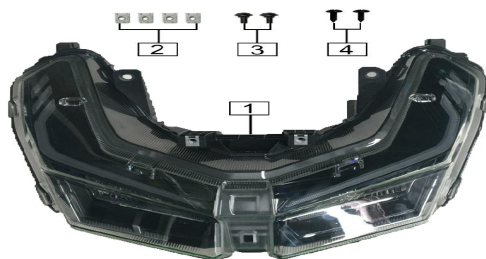


FIGURA N°16: FAROLA

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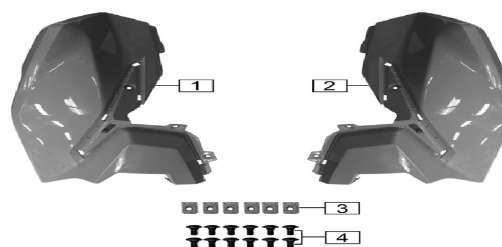


FIGURA N°17: CARENAJES LATERALES

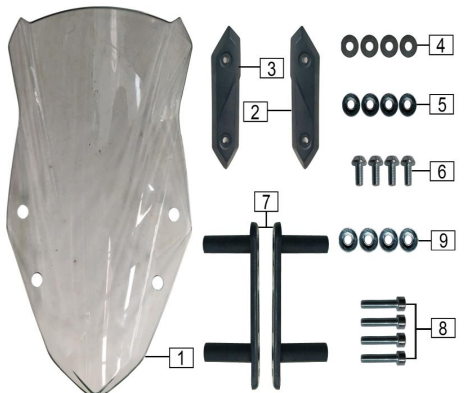
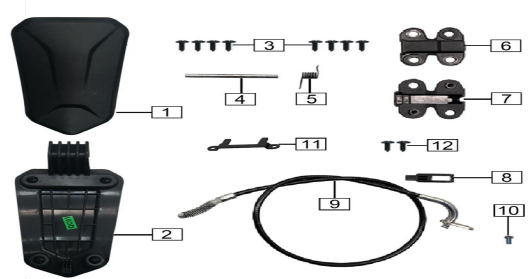
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FIGURA N°18: VELOCÍMETRO

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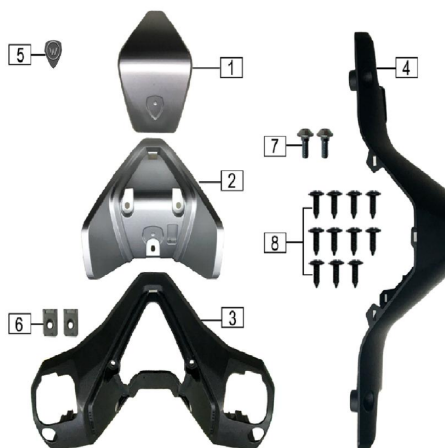


FIGURA N°26: CUBIERTAS MANUBRIO

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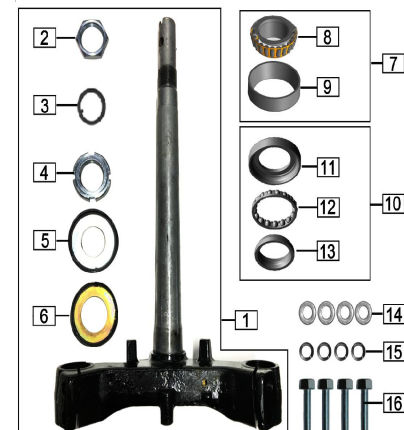


FIGURA N°27: ESIPIGA CENTRAL

PÁG.N°. 29

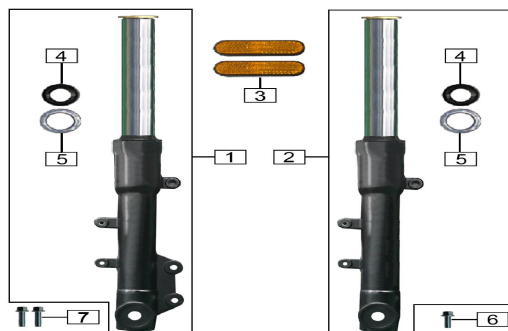


FIGURA N°28: SUSPENSION DELANTERA

PÁG.N°. 30

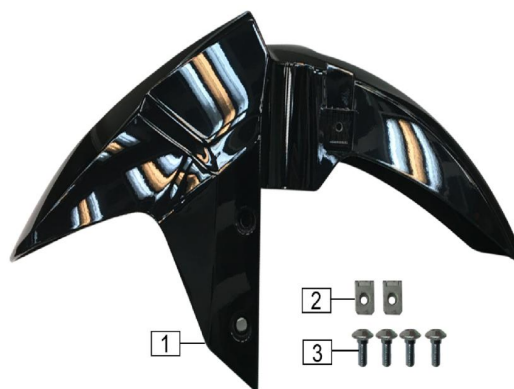


FIGURA N°29: GUARDABARRO DELANTERO

PÁG.N°. 31

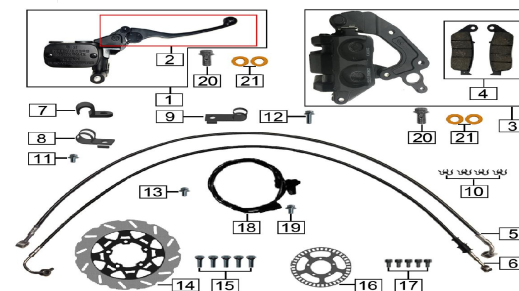


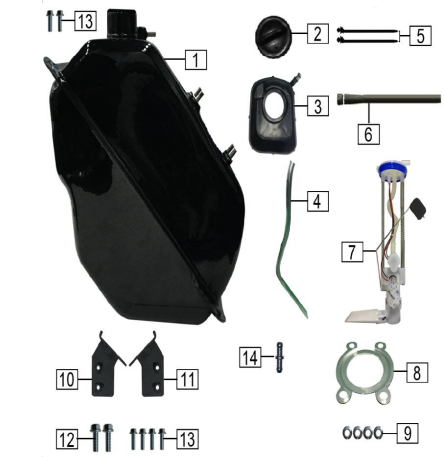
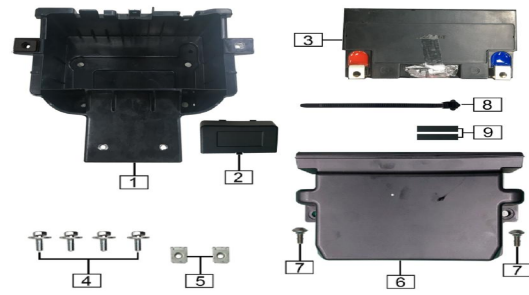
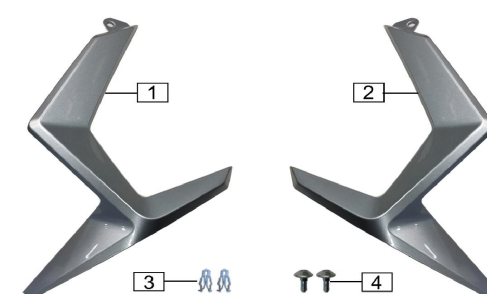
FIGURA N°30: BOMBA FRENO DELANTERA

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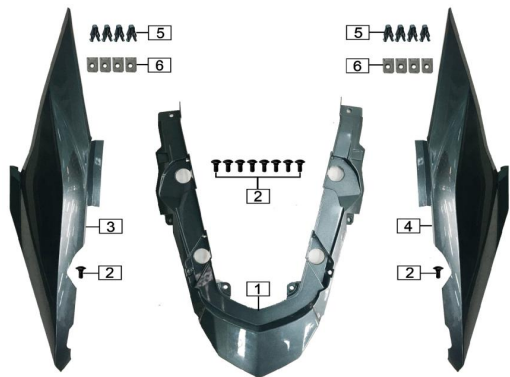
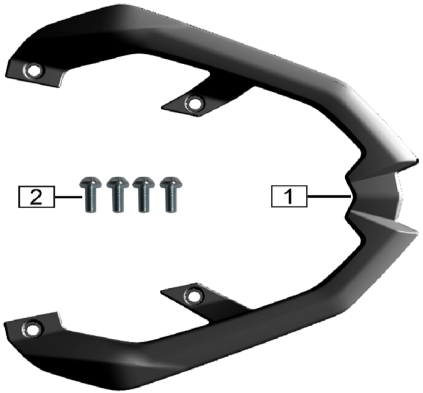
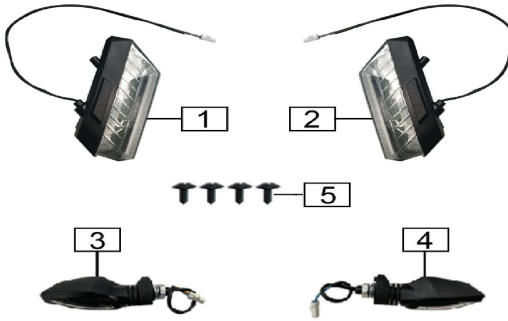
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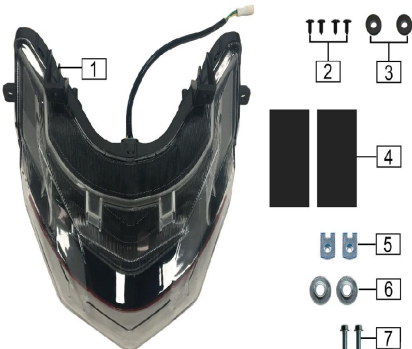


FIGURA N°49: STOP

PÁG.Nº. 51

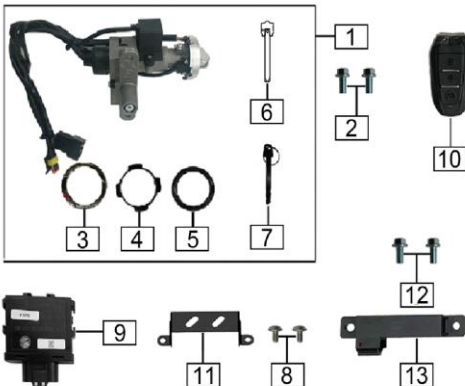


FIGURA N°50: SWITCH ENCENDIDO

PÁG.Nº. 52

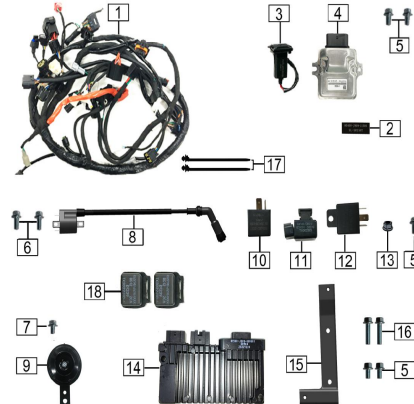


FIGURA N°51: SISTEMA ELECTRICO

PÁG.Nº. 53

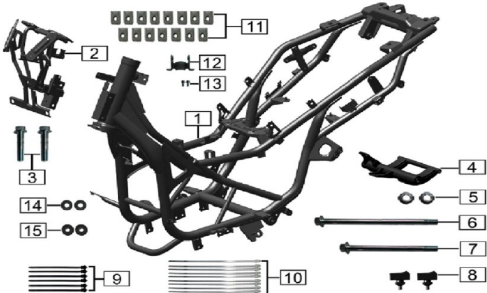


FIGURA N°52: CHASIS

PÁG.Nº. 54



FIGURA N°53:GATO CENTRAL / GATO LATERAL

PÁG.Nº. 55

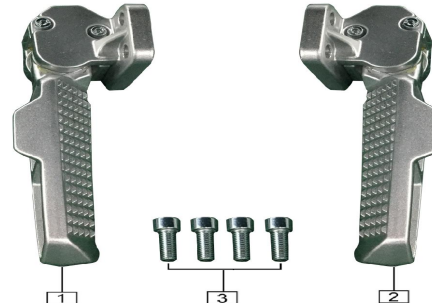


FIGURA N°54: REPOSAPIES

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FIGURA N° 1: CULATA (1/2)

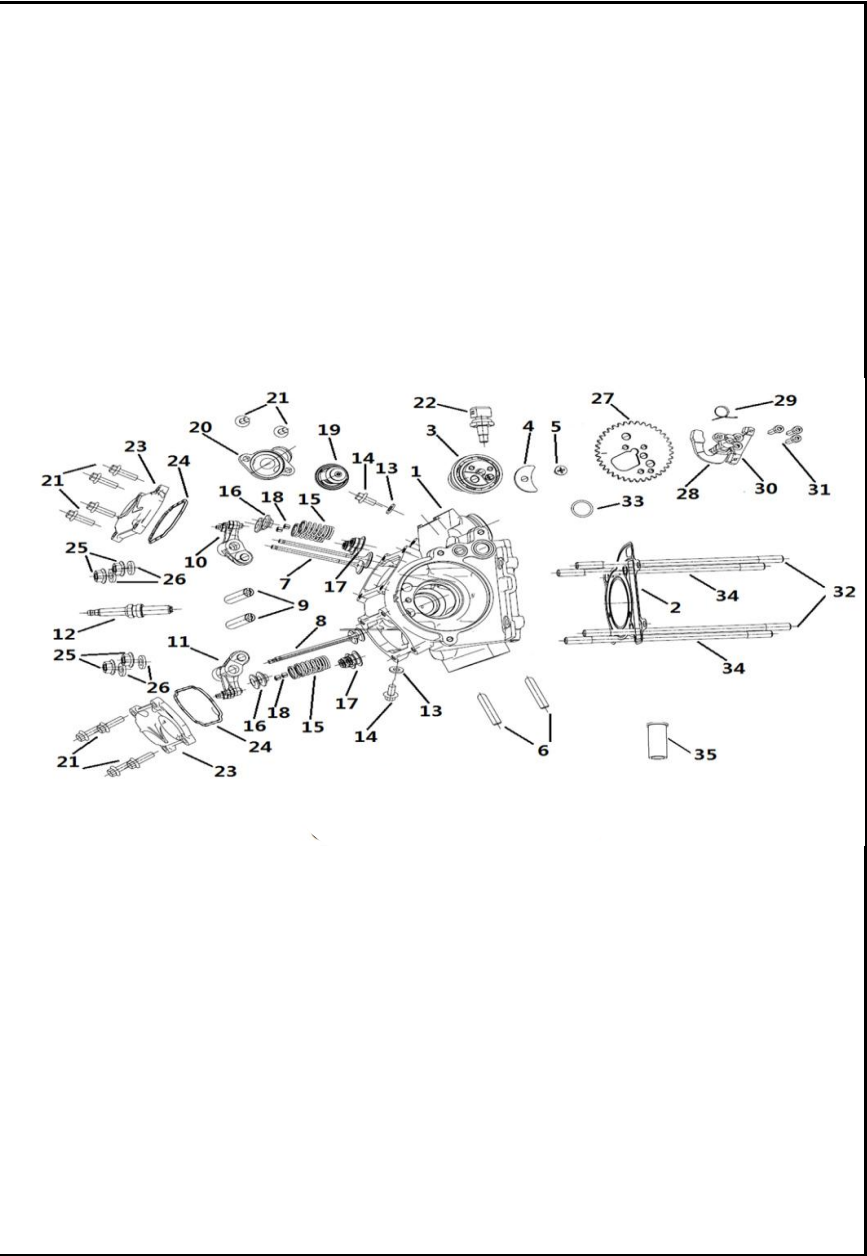


FIG. No.	PARTE N°	DESCRIPCIÓN	CANT.	SAP
1	100710728-0002	CULATA	1	11085705
2	100756930	EMPAQUE CULATA	1	11085706
3	100782757	EJE LEVAS	1	11085707
4	100711371	PLATINA PRESIÓN EJE LEVAS	1	11085708
5	100111241-0002	TORNILLO M6X12	1	11085709
6	100100439-0002	PERNO M6X12	2	11085710
7	100710732	VÁLVULA ADMISIÓN	2	11085711
8	100710733	VÁLVULA ESCAPE	2	11085712
9	100710741	EJE BALANCÍN	2	11085713
10	100710737	BALANCÍN ADMISIÓN	1	11085714
11	100710738	BALANCÍN ESCAPE	1	11085715
12	100750468	BUJÍA	1	11085716
13	100106564	ARANDELA 6.2X1.5X13	2	11053490
14	100011261-0004	TORNILLO 6X12	2	11042029
15	100786721	RESORTE VÁLVULA	4	11085717
16	100710735	ARANDELA RESORTE VÁLVULA	4	11085718
17	100105338	RETEN VÁLVULA	4	11085719
18	100200706	CUNA VÁLVULA	8	11085720
19	100772946	TERMOSTATO	1	11085721
20	100711367-0001	CUBIERTA TERMOSTATO	1	11085722
21	100055588-0006	TORNILLO 6X20	10	11042225
22	100763628	SENSOR TEMPERATURA	1	11085723
23	100710761-0002	CUBIERTA TAPA VÁLVULAS	2	11085724
24	100714227	EMPAQUE CUBIERTA TAPA VÁLVULAS	2	11085725
25	100011453-0003	TUERCA M8	4	11085726

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or motor component. The central part is a main housing (1) with various internal components. Key parts include:

- 1**: Main housing or casing.
- 2**: A long, thin component, possibly a shaft or armature, with a circular end.
- 3**: A circular component with internal features, possibly a rotor or stator.
- 4**: A small, curved component, possibly a blade or vane.
- 5**: A small circular component, possibly a pin or washer.
- 6**: A small, rectangular component, possibly a plug or cap.
- 7**: A long, thin component, possibly a shaft or armature, with a circular end.
- 8**: A long, thin component, possibly a shaft or armature, with a circular end.
- 9**: A small, rectangular component, possibly a plug or cap.
- 10**: A small, rectangular component, possibly a plug or cap.
- 11**: A small, rectangular component, possibly a plug or cap.
- 12**: A small, rectangular component, possibly a plug or cap.
- 13**: A small, rectangular component, possibly a plug or cap.
- 14**: A small, rectangular component, possibly a plug or cap.
- 15**: A small, rectangular component, possibly a plug or cap.
- 16**: A small, rectangular component, possibly a plug or cap.
- 17**: A small, rectangular component, possibly a plug or cap.
- 18**: A small, rectangular component, possibly a plug or cap.
- 19**: A small, rectangular component, possibly a plug or cap.
- 20**: A small, rectangular component, possibly a plug or cap.
- 21**: A small, rectangular component, possibly a plug or cap.
- 22**: A small, rectangular component, possibly a plug or cap.
- 23**: A small, rectangular component, possibly a plug or cap.
- 24**: A small, rectangular component, possibly a plug or cap.
- 25**: A small, rectangular component, possibly a plug or cap.
- 26**: A small, rectangular component, possibly a plug or cap.
- 27**: A circular component with internal features, possibly a rotor or stator.
- 28**: A small, rectangular component, possibly a plug or cap.
- 29**: A small, rectangular component, possibly a plug or cap.
- 30**: A small, rectangular component, possibly a plug or cap.
- 31**: A small, rectangular component, possibly a plug or cap.
- 32**: A long, thin component, possibly a shaft or armature, with a circular end.
- 33**: A small, rectangular component, possibly a plug or cap.
- 34**: A small, rectangular component, possibly a plug or cap.
- 35**: A small, rectangular component, possibly a plug or cap.

2

This diagram illustrates the exploded view of a chainsaw head assembly. The components are numbered as follows:

- 1**: Main housing of the chainsaw head.
- 2**: A circular guard plate.
- 3**: A mounting bracket or base plate.
- 4**: A small circular washer or spacer.
- 5**: Screws used for mounting the head to the tool bar.
- 6**: A curved guide bar.
- 7**: A long, thin drive link or pin.
- 8**: The main drive chain.
- 9**: Small pins or spacers for the chain.
- 10**: A ring or collar for the chain.
- 11**: Long screws for securing the head to the handle.

3

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or valve component. The parts are numbered as follows:

- 1**: Upper housing or cover with a central shaft.
- 2**: A rectangular component, possibly a solenoid or actuator, with a central shaft and a right-pointing arrow.
- 3**: A small pin or spacer between the actuator and the base.
- 4**: A small nut or washer on the central shaft.
- 5**: A base plate or support structure with four mounting legs.
- 6**: The four mounting legs of the base plate.
- 7**: A small pin or spacer between the upper housing and the valve assembly.
- 8**: Two O-rings or seals, one on each side of the valve assembly.
- 9**: A central valve or plug component.
- 10**: A spring or coil component.
- 11**: A small pin or spacer between the spring and the valve assembly.
- 12**: A small pin or spacer between the valve assembly and the base.

4

FIGURA N° 4: CARCASA MOTOR IZQUIERDA

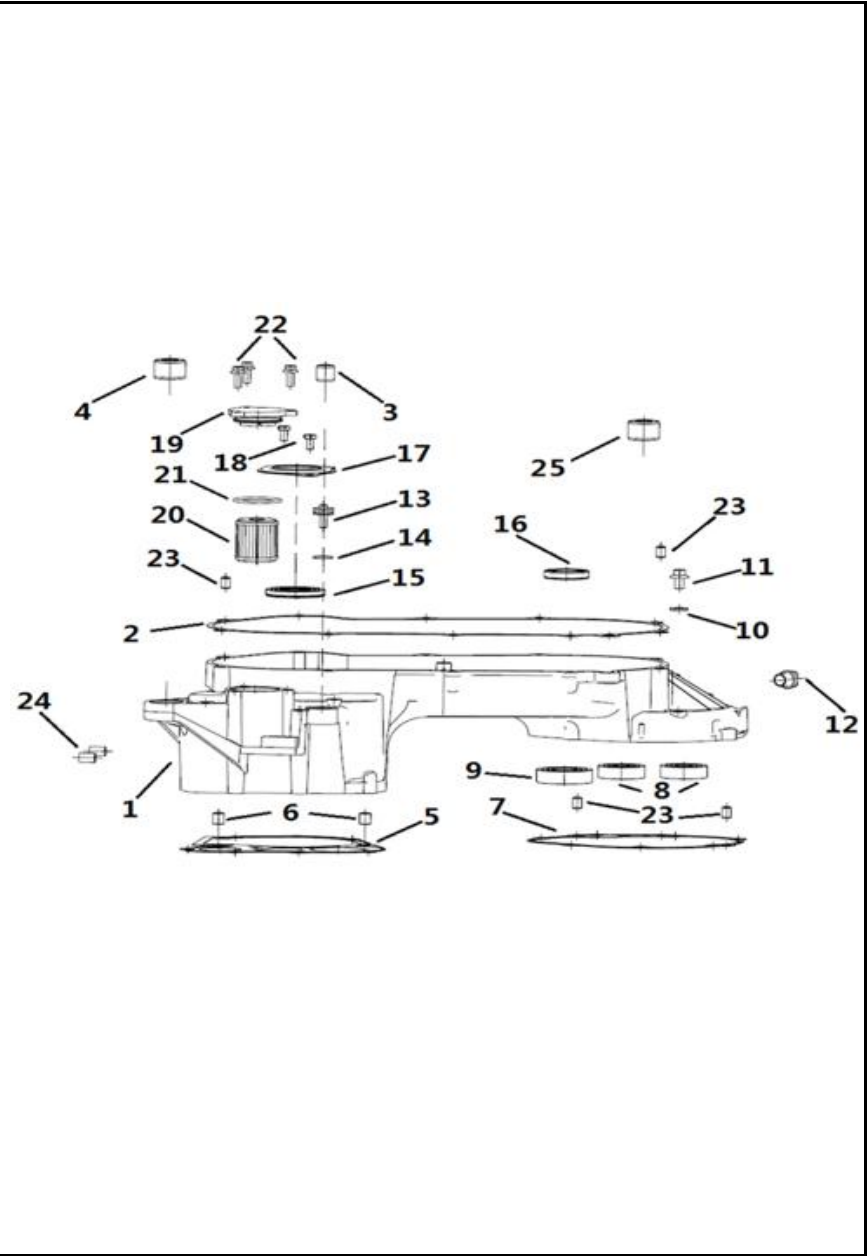


FIG. No.	PARTE N°	DESCRIPCIÓN	CANT.	SAP
1	100767034-0002	CARCASA IZQUIERDA	1	11085755
2	100710713	EMPAQUE CARCASA IZQUIERDA	1	11085756
3	100147314	BUJE	1	11085757
4	100206035	BUJE ANTIVIBRANTE	1	11085758
5	100710710	EMPAQUE CARCASA	1	11085759
6	100010556	PIN GUÍA 10X12	2	11042030
7	100710717	EMPAQUE CARCASA TRANSMISIÓN	1	11085760
8	100100954	RODAMIENTO BOLAS 6302 C3	2	11085761
9	100101049	RODAMIENTO BOLAS 62/22P6Z2	1	11085762
10	100106545	ARANDELA 8.2X1.8X16	1	11085763
11	100011548-0002	TORNILLO M8X12	1	11085764
12	100051009	TAPÓN ACEITE	1	11085765
13	100147348	TORNILLO	1	11085766
14	100721376	ORING 15.2X1.5	1	11085767
15	100713664	RETEN SELLO ACEITE 23.8X53X7	1	11085768
16	100104795	RETEN SELLO ACEITE 20X32X7	1	11085769
17	100147486	PLATINA SELLO ACEITE	1	11085770
18	100011171-0002	TORNILLO 6X12	2	11042211
19	100146217-0002	TAPA FILTRO ACEITE	1	11085771
20	100104853	FILTRO ACEITE	1	11085772
21	100300384	ORING 38.6X2.6	1	11085773
22	100055589-0006	ZS PERNO M6 X 16 TRI 200	3	22000149
23	100100867	PIN 8X12X6.3	4	11085774
24	100100874	PIN GUÍA 10X14X8.5	2	11085744
25	100206035	BUJE ANTIVIBRANTE	1	11085758

FIGURA N° 5: CARCASA DERECHA (1/2)

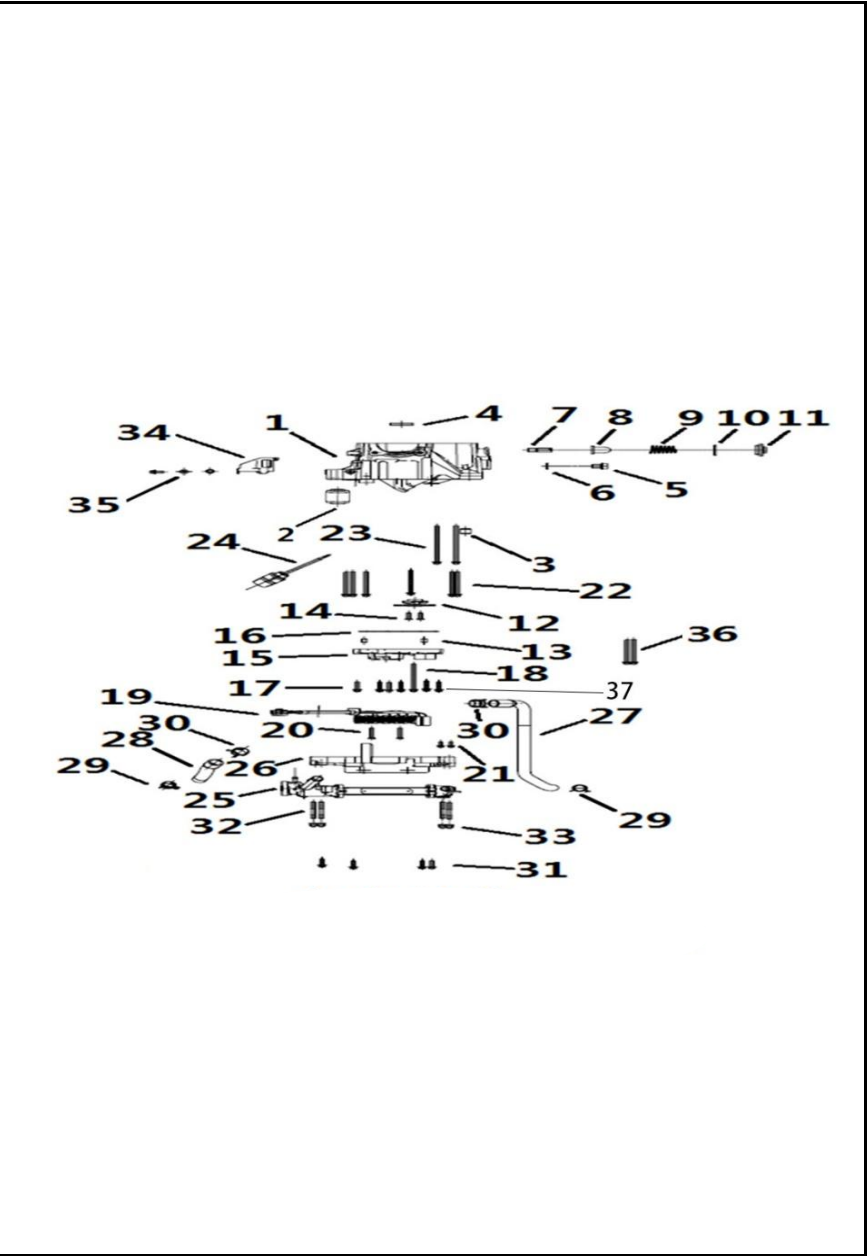


FIG. No.	PARTE N°	DESCRIPCIÓN	CANT.	SAP
1	100710764-0002	CARCASA DERECHA	1	11085775
2	100206035	BUJE ANTIVIBRANTE	1	11085758
3	100147314	BUJE	1	11085757
4	100713663	RETEN ACEITE 23.8X35X7	1	11085776
5	100100331-0006	TAPÓN DRENAJE ACEITE	1	11042228
6	100106548	ARANDELA 12.1X2X20	1	11042150
7	100756196	TUBO GUÍA ACEITE	1	11085777
8	100104943	CEDAZO FILTRO ACEITE	1	11047837
9	100200040	RESORTE FILTRO ACEITE	1	11085778
10	100107742	ORING 29.6X3.2	1	11085779
11	100102869-0003	TAPÓN CAMARA VÁLVULAS	1	11085780
12	100710766	BOMBA ACEITE	1	11085781
13	100100867	PIN 8X12X6.3	2	11085774
14	100100387-0002	TORNILLO LEVA EJE SELECTOR CAMBIOS	2	11047775
15	100761102	CUBIERTA BOMBA ACEITE	1	11085782
16	100774887	EMPAQUE BOMBA ACEITE	1	11085783
17	100033110-0003	TORNILLO M6X25	4	11085784
18	100033088-0008	TORNILLO M6X85	1	11085785
19	100759292-0009	PLATO BOBINAS	1	11085786
20	100031957-0007	TORNILLO M6X32	2	11085787
21	100033131-0002	TORNILLO M5X12	2	11085788
22	100011280-0002	TORNILLO 6X75	6	11085789
23	100011288-0002	TORNILLO M6X120	2	11085790
24	100787436	MEDIDOR ACEITE	1	11085791
25	100764615	RADIADOR	1	11085792

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or valve mechanism. The components are numbered 1 through 37. The main assembly (1) is shown at the top center. To its right is a horizontal shaft assembly (7-11). Below the main assembly is a vertical rod assembly (2-4, 22-24). In the center is a horizontal plate assembly (12-18). To the left is a horizontal rod assembly (19-21). At the bottom is a horizontal rod assembly (25-31). A vertical rod (36) is shown to the right of the central plate. A curved arm (27) is shown to the right of the bottom rod assembly. A small component (30) is shown near the bottom rod assembly. A small component (32) is shown near the bottom rod assembly. A small component (33) is shown near the bottom rod assembly. A small component (34) is shown near the main assembly. A small component (35) is shown near the main assembly. A small component (37) is shown near the central plate.

7

This diagram shows an exploded view of a car stereo unit. The main unit is labeled 1. Callout 2 points to two screws on the top surface. Callout 3 points to a screw on the side. Callout 4 points to a small bracket. Callout 5 points to a screw. Callout 6 points to a rectangular component. Callout 7 points to a long, thin component. Callout 8 points to a row of ten screws. Callout 9 points to a single screw.

8

This diagram shows the exploded view of a circular electronic device, likely a portable music player. The components are numbered as follows:

- 1**: The main circular body of the device.
- 2**: A thin circular disc or cover.
- 3**: A circular component, possibly a lens or a small speaker.
- 4**: Another circular component, similar to 3.
- 5**: A circular component, possibly a battery or a large capacitor.
- 6**: A small circular component, possibly a button or a small speaker.
- 7**: A curved, hook-like component, possibly a strap or a clip.
- 8**: A small L-shaped component, possibly a screw or a bracket.
- 9**: A group of seven screws used for assembly.

[illegible]

This diagram illustrates the exploded view of a mechanical assembly, showing 15 numbered components and their relative positions:

- 1**: A large, complex base or housing component.
- 2**: A small, cylindrical component located near the top of the assembly.
- 3**: A large, circular flange or base plate.
- 4**: A small, cylindrical component located near the center of the assembly.
- 5**: A small, cylindrical component located near the center of the assembly.
- 6**: A large, circular flange or base plate, similar to component 3.
- 7**: A small, circular disc or washer.
- 8**: A small, cylindrical component located near the center of the assembly.
- 9**: Two small, cylindrical components located near the center of the assembly.
- 10**: A small, cylindrical component located near the center of the assembly.
- 11**: A large, complex component, possibly a motor or actuator, located at the top of the assembly.
- 12**: A small, cylindrical component located near the center of the assembly.
- 13**: A small, cylindrical component located near the center of the assembly.
- 14**: Four small, cylindrical components located near the top of the assembly.
- 15**: Four small, cylindrical components located near the bottom of the assembly.

10

Diagram illustrating the assembly components and their arrangement:

- 1**: Base plate with a central hub and radial slots.
- 2**: Upper plate with a central hub and radial slots.
- 3**: Thin circular disc.
- 4**: Small cylindrical component.
- 5**: Small cylindrical component.
- 6**: Long, thin, segmented component (likely a belt or chain).
- 7**: A set of three small, oval-shaped components (likely rollers or guides).

11

A technical drawing of a three-way cross, a type of pipe fitting. It consists of a central horizontal pipe with three T-junctions. The leftmost T-junction is labeled '1', the middle one '2', and the rightmost one '3'. Each T-junction has a vertical pipe branch. The drawing is a line drawing with hatching used to indicate different views or sections of the pipe.

12

Diagram illustrating the components of a rearview mirror assembly, numbered 1 through 7:

- 1: Mirror housing/frame.
- 2: Four screws used for mounting.
- 3: Mirror glass/reflective surface.
- 4: White plastic reservoir/container.
- 5: L-shaped bracket/connector.
- 6: Long, thin, curved cable/wire.
- 7: Two small black pins/anchors.

13

Exploded view diagram of a 1000 cc engine. The components are numbered as follows:

1. Engine block and cylinder head assembly.
2. Piston and connecting rod assembly.
3. Piston pin and circlip.
4. Piston pin clip.
5. Piston pin clip.
6. Piston pin clip.
7. Piston pin clip.
8. Piston pin clip.
9. Piston pin clip.

14

A diagram of a water pump assembly with five numbered labels:

- 1: The main pump body, a black cylindrical component with a mounting bracket and two ports.
- 2: A small black component, likely a check valve or filter, with a T-shaped handle.
- 3: A black flexible hose with a metal fitting at one end.
- 4: A longer black flexible hose with metal fittings at both ends.
- 5: A shorter black flexible hose with metal fittings at both ends.

15

Exploded view diagram of a motorcycle rear section. The components are labeled as follows:

- 1: Main frame assembly
- 2: Rear fender
- 3: Rear light assembly
- 4: Rear wheel assembly
- 5: Rear brake assembly
- 6: Rear suspension assembly
- 7: Rear seat
- 8: Rear fender
- 9: Rear fender
- 10: Rear fender
- 11: Rear fender
- 12: Rear fender
- 13: Rear fender
- 14: Rear fender

17

A detailed diagram of a motorcycle headlight assembly. The headlight is shown from a front-three-quarter view, highlighting its complex, multi-lens design. Four numbered callouts are present:
 1. Points to the central mounting bracket at the top of the headlight housing.
 2. Points to a set of three electrical terminals (two small, one larger) located above the mounting bracket.
 3. Points to a pair of black electrical connectors.
 4. Points to another pair of black electrical connectors, positioned slightly higher and to the right of the third callout.

18

19

Diagram illustrating the components of a motorcycle helmet assembly, numbered 1 through 7:

- 1: Upper shell (front view).
- 2: Upper shell (rear view).
- 3: Lower shell (front view).
- 4: Lower shell (side view).
- 5: Chin guard.
- 6: Chin strap.
- 7: Chin strap attachment points.

20

22

Diagram of a black plastic engine guard. Callout 1 points to a pre-drilled hole on the upper left side. Callout 2 points to a row of five metal grommets. Callout 3 points to a set of ten screws arranged in two rows of five.

23

This diagram shows the exploded view of a motorcycle engine guard assembly. The components are numbered as follows:

- 1**: Main engine guard plate.
- 2**: Four mounting brackets.
- 3**: Four screws for the main plate.
- 4**: Two screws for the side plates.
- 5**: Side plate.
- 6**: Two blue plastic clips.
- 7**: Left side plate.
- 8**: Right side plate.
- 9**: Two O-rings.
- 10**: Two screws for the side plates.

24

Diagram illustrating the components of the engine guard assembly, numbered 1 through 6:

- 1: Main engine guard plate.
- 2: Four small rectangular mounting tabs.
- 3: Two sets of screws (one for the main plate, one for the side plate).
- 4: Four small rectangular mounting tabs (bottom).
- 5: Side engine guard plate.
- 6: A blue U-shaped bracket or clip.

25

This diagram illustrates the components of a vehicle tailgate latch assembly, numbered 1 through 12:

- 1**: Main black plastic tailgate latch body.
- 2**: Internal latch mechanism with a green "CCCL" label.
- 3**: A row of six small black plastic pins.
- 4**: A long, thin metal pin.
- 5**: A small metal spring clip.
- 6**: A metal bracket with four circular mounting holes.
- 7**: A metal bracket with a central rectangular slot and four circular mounting holes.
- 8**: A black cable with a metal connector at one end.
- 9**: A coiled black cable with metal connectors at both ends.
- 10**: A small metal pin or screw.
- 11**: A metal bracket with a single circular mounting hole.
- 12**: A pair of small metal pins.

26

This diagram illustrates the components of a motorcycle handlebar assembly, numbered 1 through 14:

- 1**: Main handlebar assembly.
- 2** and **3**: Side mirrors.
- 4** and **5**: Mirror mounting hardware (bolts and spacers).
- 6** and **9**: Handgrips.
- 7** and **8**: Handbrake levers.
- 10** and **14**: Clutch and brake cables.
- 11**: Cable adjusters.
- 12** and **13**: Mounting hardware for the cables.

27

An exploded view diagram of a motorcycle helmet assembly. The components are numbered as follows:

- 1**: Upper shell (front view).
- 2**: Upper shell (interior view showing chin strap attachments).
- 3**: Lower shell (front view).
- 4**: Side/earrator shell piece.
- 5**: Small circular sticker or label.
- 6**: Two small rectangular mounting tabs.
- 7**: Two screws for the chin strap.
- 8**: A group of ten screws for the side/earrator shell.

28

This diagram illustrates the assembly of a mechanical component, likely a pump or motor housing, with the following parts:

- 1**: Main vertical shaft or rod.
- 2**: Hexagonal nut.
- 3**: Small circular washer or spacer.
- 4**: Flange or coupling ring.
- 5**: Large circular washer or spacer.
- 6**: Yellow-rimmed circular washer or spacer.
- 7**: Two curved, ribbed components (possibly seals or gaskets).
- 10**: Three circular components, including a flange and two smaller rings.
- 14**: Four small circular washers or spacers.
- 15**: Four small circular washers or spacers.
- 16**: Four small screws or bolts.

29

The diagram illustrates the assembly of two shock absorbers. The components are labeled as follows:

- 1**: The main shock absorber body.
- 2**: A mounting bracket or plate.
- 3**: Two yellow, rectangular components, likely dust seals or spacers.
- 4**: A black O-ring or seal.
- 5**: A silver-colored metal ring or spacer.
- 6**: A single bolt or screw.
- 7**: Two bolts or screws.

The assembly process involves attaching the shock absorber body (1) to the mounting bracket (2) using the bolts (7). The yellow components (3) are then inserted into the top of the shock absorber. The O-ring (4) and metal ring (5) are also installed at the top. Finally, the single bolt (6) is used to secure the bottom of the shock absorber.

30

Diagram illustrating the components for installing the fender:

- 1: Fender
- 2: Mounting brackets
- 3: Screws

31

This diagram illustrates the components of a motorcycle rear brake system, numbered 1 through 21. The components are as follows:

- 1**: Rear brake master cylinder assembly.
- 2**: Rear brake lever.
- 3**: Rear brake caliper.
- 4**: Rear brake pads.
- 5**: Rear brake hose.
- 6**: Rear brake line.
- 7**: Rear brake master cylinder mounting bracket.
- 8**: Rear brake master cylinder mounting bracket.
- 9**: Rear brake master cylinder mounting bracket.
- 10**: Rear brake master cylinder mounting bracket.
- 11**: Rear brake master cylinder mounting bracket.
- 12**: Rear brake master cylinder mounting bracket.
- 13**: Rear brake master cylinder mounting bracket.
- 14**: Rear brake master cylinder mounting bracket.
- 15**: Rear brake master cylinder mounting bracket.
- 16**: Rear brake master cylinder mounting bracket.
- 17**: Rear brake master cylinder mounting bracket.
- 18**: Rear brake master cylinder mounting bracket.
- 19**: Rear brake master cylinder mounting bracket.
- 20**: Rear brake master cylinder mounting bracket.
- 21**: Rear brake master cylinder mounting bracket.

32

[illegible]33

This diagram illustrates the components of a motorcycle wheel assembly, numbered 1 through 12:

- 1: Tire
- 2: Valve stem
- 3: Wheel rim
- 4: Hub nut
- 5: Hub washer
- 6: Hub spacer
- 7: Hub nut
- 8: Axle
- 9: Axle nut
- 10: Axle nut
- 11: Axle nut
- 12: Axle nut

35

An exploded view diagram of a motorcycle wheel assembly. The components are labeled with numbers in boxes:

- 1**: The motorcycle tire.
- 2**: The axle nut.
- 3**: The motorcycle wheel rim.
- 4**: The axle washer.
- 5**: The axle spacer.
- 6**: The axle nut.
- 7**: The axle nut.

36

Diagram illustrating the components of a rear suspension assembly, numbered 1 through 11:

- 1: Main suspension housing or control arm bracket.
- 2: Lower control arm.
- 3: Wheel hub.
- 4: Wheel hub nut.
- 5: Two long bolts.
- 6: Two washers.
- 7: A small pin or clip.
- 8: A circular bush or spacer.
- 9: A bolt.
- 10: Two small circular components, possibly spacers or bushings.
- 11: Two black plastic bushings or spacers.

37

Diagram showing two side panels (1) and a set of hardware (2, 3, 4, 5) for assembly.

38

This diagram illustrates the exploded view of a motorcycle engine cover assembly. The components are numbered as follows:

- 1**: Upper left side panel.
- 2**: Lower left side panel.
- 3**: Small square fasteners (shown in two locations).
- 4**: Screws (shown in two locations).
- 5**: Upper right side panel.
- 6**: Lower right side panel.
- 7**: Screws (shown in two locations).
- 8**: Screws (shown in two locations).
- 9**: Screws (shown in two locations).
- 10**: Upper right side panel (textured).
- 11**: Lower right side panel (textured).
- 12**: Upper right side panel (textured).
- 13**: Lower right side panel (textured).
- 14**: Small curved plastic piece.
- 15**: Small curved plastic piece.

39

This diagram illustrates the components of a rear bumper assembly. The parts are labeled as follows:

- 1**: Left outer bumper cover.
- 2**: Right outer bumper cover.
- 3**: Two sets of mounting brackets, one for each side.
- 4**: Central bumper reinforcement plate.
- 5**: Four screws used to secure the reinforcement plate to the vehicle frame.
- 6**: Six screws used to secure the mounting brackets to the reinforcement plate.

40

41

Diagram illustrating the components of the rear seat assembly:

- 1: Rear seat shell
- 2: VIN plate
- 3: Four screws for the VIN plate
- 4: Two mounting brackets
- 5: Cable and connector for the seat
- 6: Two screws for the mounting brackets

42

This diagram illustrates the components of a 12V battery box assembly. The parts are numbered as follows:

- 1**: Main battery box housing (top view).
- 2**: Battery box cover (top view).
- 3**: Battery box cover (bottom view) showing internal wiring terminals (red and blue).
- 4**: Four screws for the battery box cover.
- 5**: Two screws for the battery box cover.
- 6**: Battery box cover (bottom view) showing internal wiring terminals.
- 7**: Two screws for the battery box cover.
- 8**: A long screw for the battery box cover.
- 9**: A small screw for the battery box cover.

43

Diagram illustrating the components for the rear cross-member assembly:

- 1: Rear cross-member (shown in two views).
- 2: Rear cross-member (shown in two views).
- 3: Two blue U-bolts.
- 4: Two black bolts.

44

This diagram illustrates the exploded view of a motorcycle front fairing assembly. The components are labeled with numbers in boxes:

- 1**: Lower front fairing (chin) with a central mounting bracket.
- 2**: Two side fairing mounting brackets, one on each side.
- 3**: Left side fairing (wing).
- 4**: Right side fairing (wing).
- 5**: A set of four black plastic clips or pins used to secure the side fairings to the main frame.
- 6**: A set of four grey plastic clips or pins used to secure the side fairings to the main frame.

45

This diagram illustrates the components of a snowmobile skid plate assembly. The main assembly is shown at the top, with a central 'X' marking the center. Below it, the individual parts are numbered:

- 1: The main skid plate, which is a large, elongated, oval-shaped component with a grid pattern.
- 2: A metal bracket or mounting plate.
- 3: Two screws used for mounting.
- 4: A black cable or strap.
- 5: A small metal pin or clip.
- 6: Three small metal pins or clips.
- 7: A metal bracket or mounting plate, similar to part 2.
- 8: A metal bracket or mounting plate, similar to part 2.
- 9: Two screws used for mounting.

46

Diagram illustrating the front fender assembly. Part 1 is the front fender, and Part 2 shows the four screws used to secure it.

47

A detailed diagram of a shock absorber assembly. The central component is a shock absorber (1) with a coiled spring. At the top, it has a mounting eye. At the bottom, it has a mounting bracket. To the left of the shock absorber, there is a control arm (4) with two mounting eyes. Below the control arm, there are two bolts (5) and two washers (6). To the right of the shock absorber, there are two bolts (3) and two bolts (2). The diagram is labeled with numbers 1 through 6 in boxes, with lines pointing to the corresponding parts.

48

This diagram illustrates the components of a motorcycle front fairing assembly. The parts are numbered as follows:

- 1**: Main front fairing shell.
- 2**: Five small rectangular mounting plates.
- 3**: Two sets of screws; one set for the top mounting bracket and another for the side mounting bracket.
- 4**: Side fairing panel.
- 5**: Four screws for the side fairing panel.
- 6**: Long vertical mounting bracket for the side fairing.
- 7**: A single screw for the lower side fairing bracket.
- 8**: A red rectangular LED light.
- 9**: A black plastic housing for the light.
- 10**: A small black plastic pin or clip.
- 11**: A single screw for the bottom center of the fairing.
- 12**: A black rubber seal or gasket.

49

Diagram illustrating the components for the rear fog light installation:

- 1. Fog light assembly
- 2. Fog light assembly
- 3. Fog light socket
- 4. Fog light socket
- 5. Four screws

50

51

Diagram illustrating the components of the alarm system:

- 1: Main alarm unit with a black cable and a red/yellow connector.
- 2: Two screws used for mounting.
- 3: A circular component, likely a siren or speaker.
- 4: A circular component, likely a siren or speaker.
- 5: A circular component, likely a siren or speaker.

52

This diagram illustrates the components of a vehicle's engine control system, including the wiring harness, sensors, actuators, and control modules. The components are numbered as follows:

- 1: Main wiring harness with various connectors and a fuse.
- 2: Engine Control Unit (ECU) or similar control module.
- 3: Throttle Position Sensor (TPS).
- 4: Mass Air Flow (MAF) sensor.
- 5: Various bolts and fasteners.
- 6: Throttle Cable End Fitting.
- 7: Throttle Cable End Fitting.
- 8: Throttle Cable.
- 9: Throttle Body.
- 10: Oxygen (O2) sensor.
- 11: Throttle Position Sensor (TPS).
- 12: Throttle Body.
- 13: Throttle Cable End Fitting.
- 14: Throttle Body.
- 15: Throttle Cable End Fitting.
- 16: Throttle Cable End Fitting.
- 17: Throttle Cable.
- 18: Throttle Body.

53

This diagram shows the exploded view of a motorcycle chassis. The main frame is centrally located. Surrounding it are various components: a front fender (1) at the top left, a rear fender (2) at the top right, a seat (3) on the left, a rear subframe (4) on the right, a rear wheel assembly (5) on the right, a rear shock absorber (6) on the right, a rear swingarm (7) on the right, a rear axle (8) on the right, a rear brake master cylinder (9) on the right, a rear brake slave cylinder (10) on the right, a rear brake line (11) on the right, a rear brake hose (12) on the right, a rear brake disc (13) on the right, a rear brake pad (14) on the right, and a rear brake caliper (15) on the right. The components are numbered 1 through 15.

54

This diagram illustrates the assembly of a bicycle seat. The main components are labeled as follows:

- 1**: The main seat body, which is a black, curved structure with a central mounting post and a rear support.
- 2**: A long, thin metal rod that passes through the seat body and the saddle.
- 3**: A small, dark, cylindrical component that fits onto the end of the rod.
- 4**: A black, curved support arm that connects the seat body to the rear of the bicycle frame.
- 5**: A small, cylindrical component that fits onto the end of the support arm.
- 6**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 7**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 8**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 9**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 10**: A coiled metal spring that fits onto the end of the support arm.
- 11**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 12**: A small, dark, cylindrical component that fits onto the end of the support arm.
- 13**: A small, dark, cylindrical component that fits onto the end of the support arm.

55

Technical drawing of the 3000 Series Hand Tool, showing two views (1 and 2) and four screws (3).

View 1 (Left): Shows the tool from the front. It features a textured grip and a mounting bracket at the top.

View 2 (Right): Shows the tool from the back. It features a textured grip and a mounting bracket at the top.

View 3 (Center): Shows four screws used for assembly.

56

This diagram shows the components of a rear window assembly. The parts are numbered as follows:

- 1: Main rear window frame or housing.
- 2: Rear window glass.
- 3: Rear window sill or base plate.
- 4: Rear window hinge or support bracket.
- 5: Rear window trim or seal strip.
- 6: Small rear window clip or fastener.
- 7: Rear window mounting bracket or pin.
- 8: Rear window fastener or bolt.
- 9: Rear window trim or seal strip.
- 10: Rear window trim or seal strip.
- 11: Rear window hinge or support bracket.
- 12: Rear window trim or seal strip.

57

Diagram of the rear of the engine showing the oil filler cap (2) and the oil drain plug (3).

58

