

# OPERATOR'S MANUAL

■ SILENT SCOPE ■



• Failure to operate the machine correctly could result in malfunction or accidents, so please read this manual carefully before commencing operation. Be sure to operate the machine as described in this manual.

•Keep this manual carefully so as to be ready for use when necessary.





3.

PN. 830400 GQ830

. 1

# Contents

Precautions for use	2
1 Specifications	7
2 Names of parts	8
3 How to play	9
<ul> <li>4 Game settings</li> <li>4-1 Checking the game performance</li></ul>	<b>10</b> 11 12
<ul> <li>5 Installation and assembly</li> <li>5-1 Installing the step covers</li> <li>5-2 Installing the title unit</li> <li>5-3 Power unit</li> <li>5-4 Separating the machine</li> </ul>	21 22 . 23 24
<ul> <li>6 Maintenance</li> <li>6-1 Replacing the fluorescent light</li> <li>6-2 Replacing the start button</li> <li>6-3 Replacing the rifle unit</li> <li>6-4 Replacing the rifle unit microswitch</li> <li>6-5 Replacing the scope</li> <li>6-6 Replacing the rifle unit potentiometers</li> <li>6-7 Removing the PCB unit</li> <li>6-8 Resetting the circuit protector</li> <li>6-9 Adjusting the monitor</li> <li>6-10 Adjusting the brightness on the scope LCD screen</li> <li>6-11 Troubleshooting</li> </ul>	25 26 28 29 30 31 35 36 37 37 38
7 Annex 7-I Exploded views 7-2 Wiring diagram	. 42 . 47

Thank you for purchasing this KONAMI product. This manual explains how to operate your game machine correctly and safely.



\*This manual covers the following models: -----

# • 830251 - 27" U/R

- \*The specifications of this product are subject to change without notice for reasons such as improving the performance.
- \*The contents of this game, its main devices and design are protected under each law concerning patent, copyright and other intellectual properties.
- \*Unauthorized reproduction of this document or any of its contents is strictly forbidden.
- © 1999 KONAMI ALL RIGHTS RESERVED.

Driver software used under license of 3Dfx interactive.

The following safety precautions are used throughout this manual. They must be strictly followed to protect those who install, use or maintain this product as well as to prevent other people's injuries and property damage.

# Be sure to read the following

•The following icons show the degree of danger and damage caused when the product is used improperly with the suggestions disregarded.



Indicates a matter of which care should be taken.
Indicates a matter which is forbidden.
Indicates a matter which should be performed without fail.

•Definitions of qualified in-shop maintenance persons and industry specialists who handle this product.

\*In this instruction manual, some procedures require a qualified in-shop maintenance person or industry specialist. For such instructions, a qualified person must perform the jobs. Otherwise an electric shock, machine trouble, or serious accident may result. Benlacing the machine parts inspecting and maintaining the machines, and troubleshooting must be

Replacing the machine parts, inspecting and maintaining the machines, and troubleshooting must be assigned only to a qualified in-shop maintenance person or industry specialist. This booklet gives instructions that hazardous jobs in particular must be handled by an industry specialist. Qualified in-shop maintenance persons and industry specialist are defined as follows.

#### Qualified in-shop maintenance persons

A qualified in-shop maintenance person must have experience in maintaining amusement machines, money changers and the like. Under the supervision of an amusement machines shop owner or manager, he or she routinely assembles, installs, inspects and maintains the amusement machines, or replaces their component units and consumable parts, in the amusement machines workshop and/or shop.

Jobs handled by qualified in-shop maintenance persons Assembling, installing, inspecting and maintaining amusement machines and money changers, and replacing their component units and consumable parts.

Industry specialist

An industry specialist must be engaged in designing, manufacturing, inspecting and servicing **amusemen** machines. Or he or she must have an education in electrical, electronic and mechanical engineering, and routinely maintain and repair amusement machines.

Jobs handled by industry specialist

Assembling and installing amusement machines and money changers, and repairing and adjusting their electrical, electronic and mechanical component parts.

#### Installation





#### Installation





#### Operation



•If there is any abnormality such as smoke, bad smell or abnormal noise being emitted from the machine, immediately turn OFF the main power switch and unplug the power cord from the receptacle to stop operating it. Using the machine in abnormal conditions could result in fire or accidents.



——— In case of abnormality –

- 1 Turn OFF the main power switch.
- 2 Unplug the power cord from the receptaadle.
- 3 Contact your nearest dealer.

•Do not leave the power cord plugged improperly or covered with dust.

Doing so could result in electrical shock or fire, so inspect the power cord periodically.

#### Operation



•Do not use this product anywhere other than industrial areas. Use in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc *The following users should not play the game. •Doing so could cause accidents or illness.
•Those under the influence of alcohol. •Those with drink and / or food in hand. •Those suffering from or being treated for arm, wrist or back ailments.
•Do not give impact to the glass cover.
Otherwise, it may result in an unexpected accident or injury.
Doing so could result in electrical shock.
•In handling the power cord, follow the instructions below.
<ul> <li>Otherwise an electric leak, fire or electric shock may result. Normal communication play may also be impossible.</li> </ul>
•Do not damage the power cord. •Do not modify the power cord.
•Do not bend the power cord excessively. •Do not twist the power cord.
Do not heat the power cord.
·Do not sandwich the power cord. ·Do not drive a nail into the power cord.
•If the power cord or power plug becomes damaged, stop using the machine immediately
and ask your nearest dealer to replace the parts.
Using a damaged power cord or power plug could result in fire or electrical shock.
Inspection and cleaning
WARNING
*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine. •Failure to do so could result in electrical shock. *When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>·Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>·Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>·Otherwise an accident or electric shock may result.</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>·Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>·Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>·Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>·Otherwise, there may arise a danger of accident or electric shock.</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>Otherwise, there may arise a danger of accident or electric shock.</li> <li>Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Otherwise, a fire, malfunction or trouble may result.</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>Otherwise, there may arise a danger of accident or electric shock.</li> <li>Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Otherwise, a fire, malfunction or trouble may result.</li> <li>Mon AMI will not assume any responsibility for damage to the product attributable to disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>Otherwise, there may arise a danger of accident or electric shock.</li> <li>Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Otherwise, a fire, malfunction or trouble may result.</li> <li>In case of any trouble, ask your nearest dealer for repairs and other services.</li> <li>KONAMI will not assume any responsibility for damage to the product attributable to disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Gently open the fluorescent light cover.</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the inside unnecessarily.</li> <li>Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>Otherwise, there may arise a danger of accident or electric shock.</li> <li>Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Otherwise, a fire, malfunction or trouble may result.</li> <li>In case of any trouble, ask your nearest dealer for repairs and other services.</li> <li>KONAMI will not assume any responsibility for damage to the product attributable to disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Gently open the fluorescent light cover.</li> <li>Otherwise, the fluorescent light or other part may get broken.</li> <li>To clean the game machine, wipe it with a soft cloth dampened in a neutral detergent</li> </ul>
<ul> <li>*Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.</li> <li>Failure to do so could result in electrical shock.</li> <li>*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.</li> <li>Using improper parts could result in fire or equipment failure.</li> <li>*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door and side door is opened, pay due attention not to touch the insue.</li> <li>Otherwise an accident or electric shock may result.</li> <li>*Before opening the back door and side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.</li> <li>Otherwise, there may arise a danger of accident or electric shock.</li> <li>Otherwise, a fire, malfunction or trouble may result.</li> <li>In case of any trouble, ask your nearest dealer for repairs and other services.</li> <li>KONAMI will not assume any responsibility for damage to the product attributable to disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.</li> <li>Gently open the fluorescent light cover.</li> <li>Moname machine, wipe it with a soft cloth dampened in a neutral detergent and wrung out.</li> <li>Using thinner or other organic solvent or alcohol may decompose the material.</li> </ul>

A MESTA TA MANAGEMENTA TA TA TA POLITIKA CAUTION \*The game machine contains parts such as the monitor, electronic components and precision components which are sensitive to vibration and impacts. Great care therefore should be taken when moving and transporting the game machine. Be sure not to let the machine tip over. \*Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord from the machine. Stepping on or tripping over the power cord may result in an accident or damage the machine. \*Before moving the machine, be sure to fully lift the adjusters and move it on the casters. Otherwise, an accident, breakage or trouble may result. •Do not apply a strong force when moving the machine. Otherwise, it may result in an accident or breakage of the units. •Do not hold the rifle unit when moving the machine. Otherwise, it may result in an injury or damage to this product. \*When moving the monitor unit, be sure to push it along sideways (to the right or left). When moving it on a slope or getting it over a step, be sure to use the buddy system. Otherwise, the unit may turn over, resulting in an accident or damage. \*When moving the machine, take care that, no undue force is applied to the opening / closing sections or moving sections of the machine. Otherwise injury, accidents or machine damage may result. DISTIC WARNING \*When disposing of the rifle unit of this product, do not leave it with the scope exposed. Doing so could result in fire due to direct sunlight, etc..

# \*When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.

- •Do not remove labels of "WARNING", "CAUTION", etc. attached to the product.
- •Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.
- •If a new owner is to have this product as a **result** of transfer, etc., be sure to give this manual to the new owner.

# **1** Specifications



Dimensions	Refer to the figure above : (in.)		
	Approx.249 kg (549 lb)		
Weight	1 Monitor unit: Approx. 127 kg (280.0 lb) 3 Title unit : Approx. 1	2 kg (26.5 lt	
	2 Control unit : Approx. 110 kg (242.5lb)		
Dated power consumption	115VAC/7A		
haleu power consumption	47-63hz		
Vonitor	29-inch CRT(Scope: 2-inch LCD)		
Coin Door	Bill Acceptor-Mars Series 2000 AE2400 ready (not attached)		
service condition	emperature 10 to 351/2C (50 to 951/2F), Humidity 20 to 80% (No dewing is allowed.)		
Attachments	Instruction manual This	manual	
	Keys for coin door	2	
	Keys for maintenance	2	
	AC power cord	1	
	·Title unit	1	
	Title unit mounting screw	4	
	·T-20 Allen wrench (for servicing the scope)	1	

•If any part is defective or not found, contact your nearest dealer.

•The specifications of this product are subject to change without notice for reasons such as improving the performance.

# 2 Name of parts



# 3 How to play

The "SILENT SCOPE<sub>TM</sub>" gun shooting game is designed for you to look into the rifle unit's scope and snipe at enemy characters. Looking through the scope, you can find images in the distance or in the dark which cannot be pinpointed on the main monitor screen. You are challenged to find each target quickly and shoot at it precisely at the first shot.

#### 

- 1 Put coin(s) into the coin slot and press the start button.
- **2** The play mode select screen shows up. Within 15 seconds, move the rifle unit to select a mode and pull the trigger to enter the mode. (To enter the mode, you can press the start button instead.)

Shooting range mode	The player tries to get the highest score possible within a
	specified time in the firing range.
Story mode	A story progresses in which you attempt to rescue the
	President from a terrorist group.
Time attack mode	On some stages of the story mode, you are challenged to clear all the targets in the shortest time possible.
	Play modes include the three courses: beginner, intermediate and advanced.

- Once a play mode has been selected, the game starts automatically.
  Watch for an enemy on the main monitor screen, and looking through the scope, shoot at it. The rifle is loaded with 5 bullets and can also be automatically reloaded. In the story mode, there are two ways to go from each stage. The story mode will end in one of the 2 ending styles.
  - If you hit anyone but the enemies, you get a penalty and lose one of your life icons.
  - •When you find a beauty (appearing in a swimsuit, bath towel or dress) through the scope, you gain one life.
- **4** The game is over when you have been attacked and lost all your life icons or when the game time is up.

# 4-1 Checking the game performance

When the main power switch is turned ON after installation of the machine, the game Printed Circuit Boards (PCB) are checked automatically and the result is displayed on the screen.

\*Be sure to check the PCB unit (self test) before using the machine. •Once the main power switch has been turned on {while the PCB unit is being checked), never touch the rifle unit until the demonstration game gets started.

\*Preferably turn OFF the main power switch while the LCD screen of the scope is off (this happens if the game is not played for longer than 30 seconds) in order to prolong the product service life.

- •Do not change the DIP switch setting of this product to other than factory setting.
- •If an abnormality persists or the machine does not operate properly, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

-If test is OK--

-The machine goes to the game mode and the demonstration game starts.

-If any abnormality is detected -

• "BAD" appears on the screen, and the check is repeated.

After the installation of this product or when the PCB unit has been repaired or replaced, turn ON the power switch while pressing the test button of the service panel to initialize the setting once to the original factory setting.

At this time, keep pressing the test button until "BACKUP DATA INITIALIZED COMPLETE/OPTION SETTINGS/RANKING DATA/BOOKKEEPING INCOME DATA/PLEASE RELEASE TEST SWITCH" appears.

Never turn ON the power switch while holding down the test button. All the "BOOKKEEPING" data will be erased. (The data once erased can not be restored.)

If an abnormal display continues or the machine does not operate normally, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

[CLOCK] PRESS TEST SWITCH to MANUAL TEST MODE

## 4-2 Setting and adjustment of game mode

Manually check and change the settings for the screen displays and game contents and change them as required.

- 1 Tearn ON the main power switch.
- 2 While the demonstration game is playing, press the test button on the service panel. (Do not turn ON the main power switch with the test button held down. The current settings as well as the BOOKKEEPING data will be erased and the machine will revert to factory settings.)

•The main menu is displayed on the screen.

#### Quit the manual test mode

- **1** Pull the rifle unit's trigger to select "GAME MODE" on the main menu screen. 2 Press the start button.
- •The screen goes back to the game mode.





•If an error happens in "SCOPE SCREEN ADJUST DATA" or "GUN VOLUME DATA" at the start of the machine, a triangular marker is displayed at the error item, Pick up the item and make new settings. The "GAME MODE" item does not appear until those settings are properly made. This means the game cannot be played.

How to select each mode from the main menu.

•SELECT --> Pull the rifle unit's trigger.

SET --> Press the start button.

After selecting a mode, refer to the page on which that mode is described in details.

#### 4-3 Mode descriptions

- The original factory settings are displayed in green; the changed settings are displayed in red.
  - •Pull the rifle unit's trigger to select a setting to be modified, and press the start button to change the setting.
  - •After the setting has been changed, select "SAVE AND NEXT" and press the start button for entry.
  - "NOW' SAVING" will appear, the modified settings will be saved, and the screen returns to the main menu.
  - ·If "EXIT" is selected after the modification of the settings, the following message will appear.
  - "YOU DID NOT SAVE. DO YOU WANT TO SAVE? YES/NO" select "YES" or "NO". Pull the rifle unit's trigger to select 'YES" or "NO". Press the start button for entry. If "YES" is selected, the new settings will be saved with "NOW SAVING" displayed and the screen will return to the main menu.
  - If "NO" is selected, the message "NO MODIFY SETTINGS" will appear, the modified settings will not be saved, but the main menu will show up again on the screen.
  - •If "FACTORY SETTINGS" is selected and the start button is pressed, all the settings of the mode will go back to the factory ones.
  - •If "DEFAULT SETTINGS" is selected, the settings of the mode will become the default ones.

#### I/O CHECK

#### Checking the controls

MEMO -

Mode for checking the performance of the controls. To return to the main menu screen, pull the rifle unit's trigger while pressing the start button

Dullon.	Displays ON/OFF according to the input
I/O CHECK	ON Switch turned ON OFF Switch turned OFF
GUN TRIGGER OFF START BUTTOM OFF•	Switches on and off the scope by holding down the service and test buttons at once ON Grid pattern on the scope screen OFF Nothing on the scope wee"
GUN YAW LEFT RIGHT-	Displays ON/OFF according to the input of the start button ON Lights up. OFF Goes out.
GUN PITCH BOTTOM TOP- Volume [0000] + + + + + + + + + + + + + + + + +	Displays the hexadecimal value corresponding to the rifle units right-and-left motion. The "I"markingshifts to LEFT when the rifle points leftward to RIGHT when rightward.
HOLD SERVICE SWITCH + PRESS TEST SWITCH = SCOPE ON/OFF PRESS START BUTTON + GUN TRIGGER = EXIT	Detects the backlash between the rifle unitsright/left control gears
	Displays the hexadecimal value corresponding to the rifle units up-and-down motion The "I"marking shifts to BOTTOM when the riflepoints downward to TOP when upward
*This screen is just an example.	Detects the backlash between the rifle units up / down control gears

#### **GUN CHECK**

#### Checking the performance of the rifle unit

Mode for adjusting and checking the rifle unit's swing range.

Look at the screen for the marker that the gun barrel is pointing to. If the marker is extremely out of position, press the test button on the service panel to call the gun adjustment mode,

To return to the main menu screen or interrupt the gun adjustment mode, press the start button.

#### Gun check mode



\*This screen is just an example.

#### Gun adjustment mode

This mode is intended to calibrate the rifle unit. Take the following adjustment procedure.

- **1** Point the gun barrel to the lower-left corner of the screen, and pull the rifle unit's trigger.
- **2** Point the gun barrel to the upper-right corner of the screen, and pull the rifle unit's trigger.
- **3** The "NOW SAVING" message appears and the settings will be saved. Then the "GUN CHECK" screen shows up again. Move the rifle unit and make sure the marker is in position.

•If an error happens in "GUN VOLUMIE DATA" at the start of the machine, the "Gun adjustment mode" screen shows up automatically.

•No image appears on the scope withile in the "Gun otheak mode" and "Gun adjustment mode".

#### **SCREEN CHECK**

#### Adjusting the monitor screen distortion

Mode for checking the monitor screen disp by.

Adjust the focus, distortion and size of the image on the screen while watching the crosshatch pattern. Use the monitor adjustment PCB (which is connected to the monitor) to make adjustments.

To return to the main menu screen, press the start button.

# **SCOPE SCREEN ADJUST**

Adjusting the scope screen position

Mode for adjusting the display position on the scope screen.

Pull the rifle unit's trigger to select an item. Press the start button to modify the setting.

Looking into the scope, adjust so that the crosshatch pattern is centered.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.

SCOPE SCREEN ADJUST	
X:-5 Y: 5*	Displays the displacement from the default settings
UP• DOWN•	Used to move up the scope screen by pressing the start button.
LEFI RIGHT	Used to move down the scope screen by pressing the start button
DEFAULT SETTINGS SAVE AND EXIT* EXIT*	Used to move the scope screen to the left by pressing the start button
	Used to move the scope screen to the right by pressing the start button
PULL GUN TRIGGER = SELECT OPTION PRESS START BUTTON = EXECUTE	Used to move back the scope screen to the default settings by pressing the start button.
•This screen is just an example.	-

\*The crosshatch pattern may appear slightly tilted on the scope screen. The game is not affected, however.

#### 



- MEMO

Mode for checking the display color.

Make the adjustment using the monitor adjustment PCB (which is connected to the monitor) so that the colors of the color bars should appear properly graduated and the background should become black sufficiently.

To return to the main menu screen, press the start button.

#### MASK ROM CHECK

#### Checking the content of the MASK ROM in PCB unit

Mode for checking the MASK ROM on the game PCB unit.

If the MASK ROM is not in trouble, "OK" is displayed: if in trouble, "BAD" is displayed. Once in this mode, this check starts automatically. To return to the main menu screen, press the start button.

•If "BAD" is indicated, turn OFF the power switch and turn it ON again. If "BAD" still appears, write down the ROM number. And immediately turn OFF the main power switch, unplug the power cord and contact your nearest dealer.

# C.G. BOARD CHECK

#### Checking the C.G. board performance

Mode for checking the C.G. board function.

Check the function of the C.G. board by watching the motion on the screen in this mode to see if the board works normally or not.

To return to the main menu screen, press the start button.



- The products logo mark **flashes** semi-transparent here. (The KONAMI logo mark appears **on** the **scope**)

 Two cubes are turning entangled with each other behind the logo mark

# SOUND OPTIONS

Setting various sound options

Mode for setting and checking the sound options.

Pull the rifle unit's trigger to select an item. Press the start button to modify the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.

SOUND IN ATTRACT MODE ALL THE TIME. VOLUME SETTING 20 SCALE CHECK. POLICE CAR SIREN ON. BGM IN GAME MODE ON FACTORY SETTINGS SAVE AND EXIT EXIT	Turns on and off the demo play sound ALL THE TIME Sound always on ONCE EVERY 4 CYCLES Sound on every 4 cycles COMPLETELY OFF .Sound always off. Adjusts the sound volume level Of voice and sound effects in the range of 0 (mute) to 30 (maximum) 'To raise the sound level, press the start button 'To lower the sound level, press the start button 'To lower the sound level, press the start button so many times that the zero level <b>S</b> reached and make a new setting You will hear a do-re mt do musical scale from the left speaker first and then from the nght speaker, which is repeated twice. (Sound effect is Queen for the 2nd round)
PULL GUN TRIGGÉR = SELECT OPTION PRESS START BUTTON = EXECUTE	<ul> <li>Switches on and of the police car siren during the game ON Siren on as specified O F F . Siren always off.</li> <li>Sets to give background music while the game is being played</li> <li>O N Background music heard</li> <li>OFF Background music not heard.</li> </ul>

\*This screen is just an example.

# **GAME OPTIONS**

#### Setting various game options

Mode for setting and checking the game options.

Pull the rifle unit's trigger to select an item. Press the start button to modify the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



# COIN OPTIONS

#### Setting various coin options

Mode for setting and checking the coin options.

Pull the rifle unit's trigger to select an item. Press the start button to modify the setting.

To return to the main menu screen, select "SAVE AND EXIT" or "EXIT" and press the start button.



•The: coin setting options are not displayed when "FREE PLAY is set to 'ON". In such case, remember the games will be free,

COIN OF FREE PLAY OFF COIN MECHANISM C COIN SLOT 1 1COIN COIN SLOT 1 1COIN COIN SLOT 2 1COIN START 2CREE CONTINUE 1CREE FACTORY SETTINGS- SAVE AND EXIT EXIT	TIONS         ommon•         (S) 1CREDIT(S)•         (S) 1CREDIT(S)•         (S) 1CREDIT(S)•         (S) to START•         IT(S) to CONTINUE•		- Selects <b>a free</b> play ON Available for tree play. OFF Not available for free play - Always keep it set to COMMON - Sets the number of credits for each coin (Presettable to 16 coins for 1 credit through 1 coin for 16 credits) - Sets the number of credits required to start the game (Presettable to 1 thru 16 credits) - Sets the number of credits required to continue the game (Presettable to 1 thru 16 credits)
PULL GUN TRIGGER PRESS START BUTTON	= SELECT OPTION = EXECUTE		Press the start button to return all the settings to the factory settings.

\*This screen is just an example.

# BOOKKEEPING

#### Displaying the bookkeeping information of coins

■ Mode for displaying the total data on the number of coins put in the machine.

If the time is preset on the "CLOCK SETUP" screen, the total data on the number of coins put into the machine can be checked for each coin slot.

Pull the rifle unit's trigger to select "HOUR", "MINUTE", and "SECOND". Press the start button to adjust the current time.

Make sure the current time is correct, select "SAVE AND EXIT" and press the start button. (The current time is now set and the main menu screen shows up.)



\*This screen is just an example.

•If the time setting has not been made -for example, after the machine has been set up or initialized ---, the "CLOCK SETUP" screen shows up.

•When the time setting has been modified, the bookkeeping information is automatically cleared. With the current time not set, the total of received coins and other bookkeeping data are not displayed. (The data once erased can not be resumed.) 

When the time has been preset on the "CLOCK SETUP" screen as shown above, the following "BOOKKEEPING" information is displayed on the screen. Select "NEXT DATA SUMMARY" and press the start button, and the screen will switch in the following sequence. To return to the main menu screen, select "EXIT" and press the start button.

Γ		I					Γ
Ļ	Total number of coins for last 7 days		Indication of play conditions	 Total number of coins for past 52 week	<b>├</b>	Total number of coins by hours and days of the week	

Also, when the current time has been set and "INCOME DATA CLEAR" has been selected and the start button pressed, the current time and BOOKKEEPING data can be cleared.

At this time, the question "DO YOU WANT TO CLEAR DATA? YES/NO" is indicated Pull the rifle unit's trigger to select "YES" or "NO". on the screen. If "YES" is selected, "NOW CLEARING" appears on the screen and the "BOOKKEEPING" data will be deleted, The data will be saved in the factory settings and the main menu screen will show itself up.

If "NO" is selected, "NO MODIFIED" is indicated and the main menu appears again without deletion of the data.



# ALL FACTORY SETTINGS

#### Returning all the settings to factory ones

■ Mode for returning the test-mode settings to the factory settings.

Pull the rifle unit's trigger to select "YES" or "NO" and press the start button for entry. If "YES" is selected, the question for reconfirmation appears on the screen.

If "YES" is selected again, the "NOW SAVING" message appears on the screen and the next test-mode settings are saved as the factory settings.

. SOUND OPTIONS
GAME OPTIONS
• COIN OPTIONS

If "NO" is selected, "NO MODIFY SETTING" is indicated. This means the modified settings are not saved.

# 5-1 Installing the! step cover

1

How to install the step cover **and and and and and and and and and and** First make sure the machine is secured with the adjusters and then attach the step cover as shown below.

- Remove the screws and detach the step cover.
- 2 Place the step cover back in position and fix it with the five screws. See the figure at right.



1

# 5-2 Installing the title unit

How to install the title unit = -

\*Before installing the title unit, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

\*Before installing the title unit, make sure the adjusters of the machine are tight on the floor.

•The title unit is heavy. Be sure to make a team of 2 people or more and to use stepladders or the like for added safety.

\*When connecting the title unit, take care not to catch the wiring and your hand between the unit.

Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

- Connect all the specified connectors. Place the title unit on the monitor unit with care not to get the wires caught between them.
- **3** Fix the title unit with the accompanying title unit mounting screws.

# 5-3 Power unit

Power unit **Power unit** is installed at the rear side of the machine.





# 5-4 Separating the machine

The machine can be divided into the units

\*Before separating the units from the machine, be sure to turn OFF the main power switch and remove the power cord plug from the receptacle. \*Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord from the **machine**.

- \*Before moving the machine, be sure to fully lift the adjusters and move it on the casters.
- \*When moving the monitor unit, be sure to push it along sideways (to the right or left). When moving it on a slope or getting it over a "step", be sure to take the buddy system.

\*When connecting the separated units, take care not to catch the wiring and your hand between the units.

- How to separate the monitor unit and control unit **and a separate the monitor**
- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Raise the adjusters to let the casters come in contact with the floor.
- 3 Unscrew the fixtures off both sides. Draw the units 100 mm (3.94 in) or shorter apart from each other.

\*Be careful not force the units too far from each other. The wires connected between the units may be damaged inside.

\*Fix each of the unit on the monitor unit and fix it by tightening the screws

Disconnect all the connectors.

4



- MEMO

# 6-1 Replacing the fluorescent light

\*Before replacing the fluorescent light, be sure to turn OFF the main power switch and unpiug the power cord from the receptacle.

•The florescent light is hot just after the power switch is turned off.

Wait until it cools down and then replace it with a new one of the same type.

\*When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.

\*Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.

Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

- 2 Remove the screws from the top marquee bracket. Carefully raise the marquee to expose the fluorescent light.
- **3** Push one end of the fluorescent light in the direction of the socket. The other end of the fluorescent light will be detached from the opposite socket.
- 4 Install a new fluorescent light in the reverse order.

\*It is recommended to replace the glow lamp at the same time.

# 6-2 Replacing the start button



- 6 Loosen the nut and separate the [ button.
- **7** To reinstall the button again

To install the button, take the reverse procedure.

- 8 Pay attention to the posture of socket and assemble it in the reverse of disassembly, using care I not to confuse the wires.
- 9 Reconnect the connectors [ (disconnected in Step 3 above).
- $10\ I$  . Mount the cover into position.
- 11 Take the steps in "4-I Checking the game performance (self test)" on page 10 I and the step:; in "I/O CHECK" on page 12.





# 6-5 Replacing the rifle unit microswitch

How to replace the microswitch \*Before replacing the microswitch of the rifle unit's trigger, be sure to turn OFF the main power switch and unplug the power cord from the receptacle. •When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones. •Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling. 1 Be sure to turn OFF the main power switch and unplug the power cord from the receptacle. 2 Remove the screws (see at right) £ and detach the cover of the trigger. A: M5 x 25L ..... 2 **B**: M4 x 30L ..... 2 C: M4 x 8 L (no cap nut) . . . . 4 **D**: M4 x 10L..... 1 3 Detach the microswitch. (black) 4 Disconnect the wires from the microswitch.  $\bigcirc$ 



#### **5 To fit the microswitch again**

- Fit a new microswitch in the reverse order. Be careful not to get the wires caught.
- 6 Place and fix the cover (detached in Step 2 above) back into position.
- Take the steps in "4-I Checking the game performance (self test)" on page 10 I and the step in "I/O CHECK" on page 12.

## 6-6 Replacing the scope



#### **4** To fit the scope again

- Fit a new scope in the reverse order. Be careful not to get the wires caught.
- **5** Take the steps in "4-I Checking the game performance (self test)" on page 10 and the step in "I/O CHECK" on page 12.

# 6-7 Replacing the rifle unit potentiometers

How to replace the rifle unit potentiometers \*Before replacing the rifle unit potentiometers, be sure to turn OFF the main power switch and unplug the power cord from the receptacle. •When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones. •Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling. 1 Be sure to turn OFF the main power switch. 2 Unplug the power cord from the receptacle. 3 Detach the cover. 4 Disconnect the wires from the Bifle unit up/down control potentiomete Wires potentiometers.

Rifle unit right/left control potentiometer Wires

5

Remove the bolts off the potentiometer brackets. Detach the potentiometers and their brackets together.



**6** Remove the hexagon nut and separate the potentiometer.

Rifle unit right/left control potentiometer

•When replacing the potentiometers with new ones, be sure to first make the adjustment on the next page.

- MEMO



Align the potentiometer tip, as shown below.

How to adjust the rifle unit potetiometers



Set the potentiometer bracket so that the mark on the potentiometer gear and that on the mating gear be in alignment (see below). Also adjust the gears into good mesh. L

#### Rifle unit up/down control potentiometer

4



#### Rifle unit right/left control potentiometer

Align the mark on the potentiometer gear with that on the mating gear.



9

5 Place and fix the potentiometer I brackets with the bolts.



- 7 Place and fix the cover (detached in Step 3 on page 31).
- 8 Plug in the power cord and turn ON I the main power switch.
  - Take the steps in "4-I Checking the game performance" on page 10 and the steps in "I/O CHECK" on page 12. Follow the procedure below to check the rifle unit performance.
    - **1** Swing the rifle unit all the way to the left or the right. Hold it in this position.
    - 2 Make sure that the "I" bar in "Volume" of "GUN YAW" is not in the red range. If in the red range, the potentiometer may get in trouble. Reposition and readjust the potentiometer so that the "I" bar comes into the green range.
    - **3** While holding the rifle unit in that position, make sure that the "Free" reading is "0000".(If the reading is not "0000", go back to the above step 1.)
    - **4** Make sure the reading is "0000", and make one turn of the potentiometer gear gently by hand. If the "I" bar in "Free" comes in the red range again, it means the gear's clearance is too large. This fails to play the game. Readjust the potentiometer gear into good mesh. Finally make sure the "I" bar is in the green range.



10 Make sure the rifle unit functions as specified. Place and fix the cover (detached I in Step 3 on page 31) with the screws.

# 6-8 Removing the PCB unit

\*Be sure to ask a qualified industry specialist or your nearest dealer to take out the PCB unit. (You will be charged.)

• Before removing the PCB unit, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

\*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the side door. When the side door is opened, pay due attention not to touch the inside unnecessarily.

•Do not touch the PCB unit with wet hands.

•Keep the PCB unit's DIP switches at the factory settings.

\*Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodelling.

- Be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- 2 Detach the side door of the control I unit.
- 3 Disconnect all the connectors from the PCB uni: as well as the connectors 1 and 2.
- PCB unit PCB unit Do not disconnect these cables. Sound cable (red / white)
- 4 Grip the pcb and gently draw out the wooden board with the PCB unit attached.

\*Be careful not to force the cover up too far. The wires connected may be damaged inside.

\*Factory-adjusted DIP switch settings: •Bit Nos. 1 thru 8: Set at OFF

MEMO

#### **5** To install the PCB unit again

Push the unit fully into position with enough care not to get the wires caught.

- **6** Reconnect the connectors.
- **7** Secure the side door tightly with the screws.

#### 6-9 Resetting the circuit protector

How to reset the circuit protector

If an overcurrent or short circuit occurs, the circuit protector will be automatically actuated to protect the electric circuits of the game machine. When resetting the circuit protector, turn OFF the main power switch, unplug the power cord from the receptacle, eliminatt the cause, and then press the button of the circuit protector.

\*Before resetting the circuit protector, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

- •If the circuit protector trips soon again, immediately turn OFF the main power switch, unplug the power cord, and contact your nearest dealer.
- \*There are high-voltage parts inside the product. Other persons than qualified industry specialist should not open the back door and side door. When the back door or side door is opened, pay due attention not to touch the inside unnecessarily.
- \*When opening the! back door or side door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.
- •If the machine is in abnormal conditions and does not operate normally, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

from the receptacle.

2

Remove the cause of the trouble. Press the buiton on the circuit protector of the power unit.

# 6-10 Adjusting the monitor

#### Monitor adjustment PCB

The monitor has already been adjusted at the time of shipment, but it maybe readjusted as desired. The monitor adjustment PCB is located inside the machine. To access the PCP open the back door of the monitor unit...

# 6-11 Adjusting the brightness on the scope LCD screen

How to adjust the LCD screen brightness



\*Images on the scope LCD screen can also be displayed on the main screen during the demonstration game. For this setting, refer to "GAME OPTIONS" on page 16.

MEMO -

# 6-12 Troubleshooting

If the main power switch has been turned ON but the machine does not get started. Check the points listed below. If the machine still fails, immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

Trouble	Possible cause & check point	Measures
No image on main screen, title unit fluorescent light fails to light up.	• N0 power supply.	◦Turn ON the main power switch. Check also store's circuit breaker.
	*Power cord unplugged at machine or wall outlet.	Reconnect power cord.
No image on main screen: title un t fluorescent light on, but	•Connector(s) improperly connected when joining the separated units.	<ul> <li>Reconnect connector(s) properly.</li> </ul>
display off.	•Wires (connectors) disconnected on PCB unit.	Check to see if PCB unit wires (connectors) are all connected.
Title unit fluorescent light failure to light up.	*Fluorescent light or glow lamp broken.	Replace fluorescent light and glow lamp with same-type ones. (See page 25.)
	*Connector(s) improperly connected when joining the separated units.	Reconnect connector(s) properly.
Main monitor screen too dark or too bright.	*Monitor maladjusted.	<ul> <li>Readjust brightness on main monitor screen using monitor adjustment PCB. (See page 13.)</li> </ul>
Game started, but no image on scope screen,	Same started, but איז •Connector(s) improperly nage on scope screen, connected after replacing the rifle unit or the scope.	
	•Wires (connectors) disconnected on PCB unit.	Check to see if PCB unit wires (connectors) are all connected.

Trouble	Possible cause & check point	Measures	
Start button malfunctioning.	•Switch wires disconnected from start button socket.	Reconnect switch wires properly to socket.	
	•Wires (connectors) disconnected on PCB unit.	Check to see if PCB unit wires (connectors) are all connected.	
	•Start button defective.	Replace start button as required. (See page 26.)	
Start button functioning, but button lamp failure to light up.	• Lamp wires disconnected from start button socket, or improperly connected.	•Reconnect lamp wires properly to socket.	
	•Start button lamp (LED) defective.	Check performance on "I/O CHECK" screen. Replace start button as required. (See page 26.)	
Rifle unit's trigger malfunctioning.	• Wires disconnected from trigger's microswitch.	<ul> <li>Reconnect microswitch wires properly.</li> </ul>	
	*Wires (connectors) disconnected on PCB unit.	<ul> <li>Check to see if PCB unit wires (connectors) are all connected.</li> </ul>	
	*Trigger's microswitch defective.	Check performance on "I/O CHECK" screen. Replace trigger's microswitch as required. (See page 29.)	
Coin selector malfunctioning.	• Coin selector defective.	Check performance on "I/O CHECK" screen. Replace coin selector or microswitch as required.	

Trouble	Possible cause & check point	Measures
Rifle unit orientation cursor failure to move or out of position.	*Reference settings greatly out of spec.	Check performance on "I/O CHECK" screen. Make new settings on "GUN CHECK" screen as required. (See page 13.)
	*Wires disconnected from rifle unit's potentiometer.	Reconnect potentiometer wires properly.
	•Rifle unit's potentiometer improperly installed.	∘Install potentiometer properly.
	*Rifle unit's potentiometer defective.	•Replace potentiometer with new one. (See page 31.)
Image out of position on scope screen.	*Reference settings greatly out of position.	<ul> <li>Make new settings on "SCOPE SCREEN ADJUST" screen. (See page 14.)</li> </ul>
Image too dark or too bright on scope screen.	*Scope LCD screen maladjusted.	<ul> <li>Readjust brightness on scope LCD screen. (See page 37.)</li> </ul>
No sound, or sound too weak or too loud.	•Sound level maladjusted.	<ul> <li>Make new settings on "SOUND OPTIONS" screen. (See page 15.)</li> </ul>
	•Wires (connectors) disconnected on PCB unit.	Check to see if PCB unit wires (connectors) are all connected.
No image on screen at start (power supplied ar d nonitor well adjusted)	*Error message "Er**" in 7-segments display of PCB unit. (See page 52.)	•Write down the error code "**", immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.

#### 6 Maintenance

Trouble	Possible cause & check point	Measures
"BAD" displayed on "MASK ROM CHECK." screen in test <b>mode</b> .	•Indicated Mask ROM defective.	•Write down the error code "***", immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.
"HARDWARE ERROR (***)" displayed on screen. Game failurs to start.	*Hardware getting in trouble.	•Write down the error code "***", immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.
Following display shown on screen at start. Game failure to start. BACKUP DATA ERROR OPTION SETTINGS RANKING DATA BOOKKEEPING INCOME DATA SCOPE SCREEN ADJUST DATA GUN YOUME DATA PRESSTEST SWITCH 10 FACTORY DEFAULT SETTING AND MANUAL TEST MODE	•Error in indicated item.	•Press test button to return "OPTION SETTINGS", "RANKING DATA" and "BOOKKEEPING INCOME DATA" settings to factory ones. For "SCOPE SCREEN ADJUST DATA" and "GUN VOLUME DATA" settings, press test button to go back to test mode. Then make new settings.
The following message appears. (The game may fail to play.) GAME MODE LOCKED! CONTACT YOUR NEAREST DE ALER PLEASE SET THE PASSWORD PRESS TEST SWITCH TO MANUAL TEST MODI	•Something is wrong with the product.	<ul> <li>Immediately turn OFF the main power switch, unplug the power cord from the receptacle and contact your nearest dealer.</li> </ul>

# 7-1 Exploded views









NO.	CODE No.	NAME	MATERIAL/SPECIFICATION	aty	NOTE	
01	830811	CASE, SCOPE(L)	PC	1		
02	830812	CASE, SCOPE(R)	PC	1		
03		PIPE, SCOPE	ABS	1		
04	830822	COVER, SCOPE	PC	1		
						1
11	830814	COVER, LCD	SECC T1.0	1		.*
12	830817	BRACKET, LCD	SPGC T1.0	1		
13	830818	BRACKET, LCD	SPGC T1.0	1		
		ſ				
21		ΤΑΡΕ	CR FORM T3	2		
22		TAPE. SPONCE	CR FORM T2	8		
51	830816	DISPLAY, LCD	LB20HR-BC00	1		
52	830821	LENS	L-020	Ι		
53		BUSH	DP-187	1		
61	830007	POBIL) UNIT	-	1		
62		LABEL, PL/HIVOL, T	YUPO-TAX	1		
63		ASS'Y, LCD	-	1		
64	830820	Scope Harn. Ass'y	-	1		
65	830819	CABLE, FFC	-	1		
101		SCREW, CROSE PAN SEM	мзхө	10	SW	
102		BOLT HEX SOCKET CAP	ОЕХЕМ	6		
103		BOLT, HEX SOCKET CAP	M3X35	1		
104		SCHOLODING TRUE	D4X8	2		
105		SPACER, PC	46×3	4		
106		NUT. DOMED CAP	MЭ	7		

# FIG.3 ASS'Y, SCOPE

44

01         630915         CAGE, GRIP(L)         PC         1           02         830916         CMEL, GRIP(R)         PC         1           03         830916         CMEL, GRIP(R)         PC         1           04         830917         CMEL, GRIP, RPME, SCOFE         SPCC         1           11         830916         GMME, STOCK         PEC         1           12         830910         FRAME, SCOFE         SPCC, T2: 3         1           13         830910         FRAME, SCOFE         SPCC, T2: 3         1           14         830910         FRAME, SCOFE         SPCC, T2: 3         1           15         830900         FRAME, SCOFE         SPCC, T2: 3         1           16         830910         FRAME, SCOFE         SPCC, T2: 3         1           16         830910         FRAME, SCOFE         SPCC, T2: 3         1           16         830910         FRAME, SCOFE         SPCC, T2: 3         1           17         830910         FRAME, SCOCK         SPCC, T1: 6         1           18         830910         FRAME, SCOCK         SPCC, T1: 6         1           19         8309010         FRAME, SCOCK         SPC	Ż	CODE No.	NAME	MITERIAL SPECIFICATION	Łą	NDTE
Q2         830916         CASE, CRTIPIG)         PC         1           03         830916         TRUCKER         PE         1           03         830916         COVER, STOCK         FE         1           11         830919         COVER, STOCK         FE         1           12         830919         COVER, STOCK         SPCC T2: 3         1           13         830910         FRAME, SCOFE         SPCC T2: 3         1           14         830910         FRAME, SCOFE         SPCC T2: 3         1           15         830900         FRAME, SCOFE         SPCC T2: 3         1           16         830910         FRAME, SCOFE         SPCC T2: 3         1           17         830900         FRAME, SCOFE         SPCC T2: 3         1           18         830910         FRAME, SCOCK         SPCC T1: 6         1           19         830900         FRAME, SCOCK         SPCC T1: 6         1           19         830901         FRAME, STOCK         SPCC T1: 6         1           10         830901         FRAME, STOCK         SPCC T1: 6         1           11         830901         FRAME, STOCK         SPCC T1: 6	õ	830915	CASE, GRIP(L)	5	1=	
02         830914         TRIGER         PC         1           04         630917         CVELENFEL         PE         1           1         809019         COVER.STOCK         FE         1           11         809030         FRAVE.SCOFE         SPCC T2.3         1           12         809030         FRAVE.SCOFE         SPCC T2.3         1           13         809010         FRAVE.SCOFE         SPCC T2.3         1           14         800610         FRAVE.SCOFE         SPCC T2.3         1           15         800905         FRAVE.SCOFE         SPCC T2.3         1           16         800906         FRAVE.SCOFE         SPCC T2.3         1           17         800905         FRAVE.SCOCK         SPCC T1.6         1           18         800905         FRAVE.STOCK         SPCC T1.6         1           19         800905         FRAVE.GRIP         SPCC T1.6         1           19         800905         FRAVE.GRIP         SPCC T1.6         1           19         800905         FRAVE.GRIP         SPCC T1.6         1           10         800905         FRAVE.GRIP         SPCC T1.6         1 <tr< th=""><th>8</th><th>830916</th><th>CASE, GRIP(R)</th><th>R</th><th>-</th><th></th></tr<>	8	830916	CASE, GRIP(R)	R	-	
Q4         830911         CAGE. BAYREL         PE         1           11         830919         COVER. STOCK         FE         1           12         830919         FRAVE. SCOFE         SPCC T2: 3         1           13         830919         FRAVE. SCOFE         SPCC T2: 3         1           14         830909         FRAVE. SCOFE         SPCC T2: 3         1           15         830909         FRAVE. SCOFE         SPCC T2: 3         1           16         830907         FRAVE. SCOFE         SPCC T2: 3         1           17         830906         FRAVE. SCOCF         SPCC T2: 3         1           18         830907         FRAVE. SCOCK         SPCC T1: 6         1           19         830905         FRAVE. STOCK         SPCC T1: 6         1           19         830901         FRAVE. STOCK         SPCC T1: 6         1           20         830913         SPRING.         SPCC T1: 6         1           21         830901         FRAVE. STOCK         SPCC T1: 6         1           22         830913         SPRING.         SFCC T1: 6         1           23         830913         SPRING.         SFCC T1: 6	8	830914	TRICCER	8	-	
05         830916         COVER.STOCK         FE         1           11         830903         FRAVE.GRIP         SPCC T2.3         1           12         830903         FRAVE.SCOFE         SPCC T2.3         1           13         830903         FRAVE.SCOFE         SPCC T2.3         1           14         830907         FRAVE.SCOFE         SPCC T2.3         1           15         830907         FRAVE.SCOFE         SPCC T2.3         1           16         830907         FRAVE.SCOFE         SPCC T2.3         1           17         830906         FRAVE.SCOFE         SPCC T1.6         1           18         830907         FRAVE.STOCK         SPCC T1.6         1           19         830906         FRAVE.STOCK         SPCC T1.6         1           19         830901         FRAVE.GRIP         SPCC T1.6         1           20         830901         FRAVE.GRIP         SPCC T1.6         1           21         830901         FRAVE.GRIP         SPCC T1.6         1           22         830913         SPRINC         SPCC T1.6         1         1           23         830913         SPRINC         SPCC T1.6	8	830917	CASE, BARREL	æ	-	
11         80000         FRWE.GRIP         SPCC T2.3         1           12         80090         FRWE.SCPE         SPCC T2.3         1           14         800900         FRWE.SCPE         SPCC T2.3         1           15         800900         FRWE.SCPE         SPCC T2.3         1           16         800900         FRWE.SCPE         SPCC T2.3         1           17         800900         FRWE.SCPE         SPCC T1.6         1           19         800900         FRWE.SCPE         SPCC T1.6         1           19         800900         FRWE.SCPC         SPCC T1.6         1           19         800900         FRWE.SCPC         SPCC T1.6         1           19         800900         FRWE.STPC         SPCC T1.6         1           20         800900         FRWE.GRIP         SPCC T1.6         1           21         800901         SPRING         SWA D1.0         1           22         800913         SPRING         SWA D1.0         1           23         800913         SPRING         SWA D1.0         1           23         800913         SPRING         SWA D1.0         1           2	З	830918	COVER, STOOK	æ	-	
11         830903         FRAVE. SCOFE         SPCC T2.3         1           12         830901         FRAVE. SCOFE         SPCC T2.3         1           14         830910         FRAVE. SCOFE         SPCC T2.3         1           15         830907         FRAVE. SCOFE         SPCC T2.3         1           16         830907         FRAVE. SCOFE         SPCC T2.3         1           16         830907         FRAVE. SCOFE         SPCC T1.6         1           16         830907         FRAVE. SCOFE         SPCC T1.6         1           17         830907         FRAVE. STOCK         SPCC T1.6         1           18         830901         FRAVE. GRIP         PIPE SS5.53400         1           20         830901         FRAVE. GRIP         SFCC T1.6         1           21         830901         FRAVE. GRIP         SFCC T1.6         1           22         830913         SHING.         SHPA D1.0         1           23         630913         SHING.         SF-64.1/040NN         1           24         NUT.         SN1704.1/040         SF-64.1/040NN         1           25         830913         SHING.         SF-64.1/040NN					E	
I2         800911         FRAVE. SCOFE         SPCC T2.3         2           13         80000         FRAVE. SCOFE         SPCC T2.3         1           16         80000         FRAVE. SCOFE         SPCC T2.3         1           16         80000         FRAVE. SCOFE         SPCC T2.3         1           16         80000         FRAVE. SCOFE         SPCC T1.6         1           17         80000         FRAVE. SCOFE         SPCC T1.6         1           18         80000         FRAVE. SCOCK         SPCC T1.6         1           19         80000         FRAVE. STOCK         SPCC T1.6         1           20         80001         FRAVE. GRUP         PIPE. S25.56400         1           21         80001         FRAVE. GRUP         SPCC T1.6         1           22         80001         FRAVE. GRUP         SFCC T1.6         1           23         800013         SRIING.         SN-PA D1.0         1           24         SUTTOH.MICOC         SS-5GL T/OHRON         1         1           25         800013         SRIING.         SN-PA D1.0         1         1           26         800014         Gun Barrel Hom         <	=	830903	FRAME, GRIP	SPCC 12.3	-	
(13)         830800         Frave, SCOFE         SPCC T2: 3         1           16         830901         Frave, SCOFE         SPCC T2: 3         1           16         830907         Frave, SCOFE         SPCC T2: 3         1           17         830906         Frave, SCOCK         SPCC T1: 6         1           19         830906         Frave, STOCK         SPCC T1: 6         1           20         830906         Frave, GRIP         SPCC T1: 6         1           20         830906         Frave, GRIP         SPCC T1: 6         1           21         830901         FRAve, GRIP         SPCC T1: 6         1           22         830901         FRAve, GRIP         SPCC T1: 6         1           23         830912         SWITCH, MICDO         SS-541, T/OMON         1           26         830913         SAFR LIG         1         1           27         830913         SWID         SSMAN         1         1           28         830913         Gun Barrell Ham         -         1         1           27         830913         Gun Barrell Ham         -         1         1           28         830914         <	2	830911	FRAME, SCOPE	SPCC 12.3	N	
Id         80010         Frave. SCOTE         SPC T2: 3         I           15         80000         Frave. SCOTE         SPC T2: 3         1           17         80005         Frave. SCOT         SPC T1: 6         1           18         80005         Frave. STOX         SPC T1: 6         1           19         80005         Frave. STOX         SPC T1: 6         1           19         80002         Frave. GRIP         SPC T1: 6         1           20         80001         Frave. GRIP         SPC T1. 6         1           21         80001         Frave. GRIP         SPC T1. 6         1           22         80001         Frave. GRIP         SPC T1. 6         1           23         80001         FRAve. GRIP         SPC T1. 6         1           24         B0001         FRAve. GRIP         SPC T1. 6         1           25         80013         SPIICI. MICDO         SS-5G1 T/OHON         1           25         80013         Gun Barrel Ham         -         1         1           25         80013         Gun Barrel Ham         -         1         1           26         80014         Gun Barrel Ham	<b>m</b>	606028	FRAME, SCOPE	SPCC 12.3	-	
I5         830006         FRAVE.SCOFE         SPCC T2.3         1           11         830007         FRAVE.STOCK         SPCC T1.6         1           13         830005         FRAVE.STOCK         SPCC T1.6         1           19         830005         FRAVE.STOCK         SPCC T1.6         1           19         830007         FRAVE.GRIP         PIPE S25.S5400         1           10         830003         FRAVE.GRIP         SPCC T1.6         1           11         830011         FRAVE.GRIP         SPCC T1.6         1           12         830013         FRAVE.GRAPE         SACC T1.6         1           22         830013         FRAVE.GRAPE         SACC T1.6         1           23         830013         FRAVE.GRAPE         SACC T1.6         1           24         MCL         SACC T1.6         1         1           25         830013         Gun Burelithan         -         1	=	830910	FRAME, SCOPE	SPCC 12.3	Ξ	
I6         830907         FRAVE.STOCK         SPCC.T1.6         I           11         830905         FRAVE.STOCK         SPCC.T1.6         I           13         830905         FRAVE.STOCK         SPCC.T1.6         I           13         830904         FRAVE.STOCK         SPCC.T1.6         I           12         830904         FRAVE.GRIP         SPCC.T1.6         I           13         830901         FRAVE.GRIP         SPCC.T1.6         I           14         830901         FRAVE.GRIP         SPCC.T1.6         I           12         830901         FRAVE.GRRP         SPCC.T1.6         I           12         830913         SHITCH.MICDO         SS-5G1.T/OHTON         I           13         830912         SHITCH.MICDO         SS-5G1.T/OHTON         I           14         SSect.order         MAC.SS-5G1.T/OHTON         I         I           15         630912         SHITCH.MICDO         SS-5G1.T/OHTON         I         I           15         SHORE         SKER         AASOLE         I         I           16         Gun Barriel Hom         -         I         I         I           1010         SPE.corders In	5	830908	FRAME, SCOPE	SPCC 12.3	-	
1/1         800005         FRAVE. STOCK         SPCC. T1.6         1           19         800002         FRAVE. STOCK         SPCC. T1.6         1           20         830904         FRAVE. STOCK         SPCC. T1.6         1           21         830904         FRAVE. STOCK         SPCC. T1.6         1           21         830901         FRAVE. STOCK         SPCC. T1.6         1           21         830913         SPRINC         SMPA D1.0         1           23         830913         SPRINC         SMPA D1.0         1           24         830913         SWICH.MICOC         SS-5G1.T/OMRON         1           25         830919         Gun Barriel Hom         -         1         1           25         830919         Gun Barriel Hom         -         1         1         1           26         930914         SPR. ORGE FILES         MAX10         27         1         1           27         SPR. ORGE FILES         MAX10         27         1         1         1           27         SPR. ORGE FILES         MAX15         4         1         1         1         1           28         SPR. ORGE FILES	16	106068	FRAME, STOCK	SPCC 11.6	=	
10         800006         FRAVE. STOCK         SPCC         1           20         830004         FRAVE. GRIP         PIPE         255.55300         1           21         830011         FRAVE. BURREL         SKPC         1         1           22         830913         STRING         SkPA D1.0         1           23         830913         STRING         SkPA D1.0         1           24         830913         SWITCH.MICR0         SS-561.7/OHR0N         1           25         830919         Gun Burrell Ham         -         1         1           37         1010         STA D1         27         1         1           380919         Gun Burrell Ham         -         1         1         1           380919         Gun Burrell Ham         -         -         1         1           101         Status         -         -         1         1 <th>-</th> <th>830905</th> <th>FRAME, STOCK</th> <th>SPCC 11.6</th> <th>-</th> <th></th>	-	830905	FRAME, STOCK	SPCC 11.6	-	
[19]         830002         FRAVE. CRIP         PIPE         S5. S5. S5400         1           20         830001         FRAVE. CRIP         SPCC. T1.6.         1           21         830001         FRAVE. CRIP         SPCC. T1.6.         1           22         830913         SFRING         SMPA. D1.0         1           23         830913         SFRING         SM-A. D1.0         1           24         830913         SFRING         SM-A. D1.0         1           25         830913         SFRING         SS-SG1.70H30N         1           26         Guin Bareli Ham         -         1         1           27         Base conserim see         MAX10         27         1           28         830913         Serv. conserim see         MAX10         1         1           28         Serv. conserim see         MAX15         4         1         1           29         Serv. conserim see         MAX15         4         1         1           2010         Barrian Ham         -         -         1         1         1         1           2010         Barrian Ham         -         -         1         1	18	906068	FRAME, STOCK	SPCC T1.6	1-	
20         830904         FRAVE. GRIP         SPCC T1.6         1           21         830901         FRAVE. BURRED         546063TD         1           22         830913         SRING         SWA D1.0         1           23         830913         SRING         SWA D1.0         1           31         830912         SWITCH.MICRO         SS-5G1.7/OHRON         1           32         830919         GUR Barrell Ham         -         1           31         830912         SWITCH.MICRO         SS-5G1.7/OHRON         1           32         830919         GUR Barrell Ham         -         1         1           32         830919         GUR Barrell Ham         -         1         1           33         830919         GUR Barrell Ham         -         1         1           33         830919         GUR Barrell Ham         -         1         1           34         JUT         SSC GUR Barrell Ham         -         1         1           33         SS0919         GUR Barrell Ham         -         27         10           34         JUT         SSC GUR Barrell Ham         -         10         27 <t< th=""><th>5</th><th>830902</th><th>FRAME, CRIP</th><th>PIPE S25, 55400</th><th>-</th><th></th></t<>	5	830902	FRAME, CRIP	PIPE S25, 55400	-	
21         830901         FRAVE. BARREL         A606.3TD         1           22         830913         SFRING         SLAPA DI. 0         1           31         830912         SIVI TCH, MICRO         SS-561.1/OPRON         1           32         830912         SIVI TCH, MICRO         SS-561.1/OPRON         1           32         830914         Gun Burrel Ham         -         1           32         830919         Gun Burrel Ham         -         1           33         830919         Gun Burrel Ham         -         1           34         T01         T01         Fastu Arres         MAX10         27           101         T02         Fastu Arres         MAX15         4         1           102         Satu Arres         MAX15         4         1         1           103         Satu Arres         MAX15         2         1	8	830904	FRAME, GRIP	SP0C T1.6	-	
22         830913         SFRINC         SMPA         D1.0         1           31         830912         SNITCH, MICHO         SS-5GL T/OPRON         1           32         830912         SNITCH, MICHO         SS-5GL T/OPRON         1           32         830912         SNITCH, MICHO         SS-5GL T/OPRON         1           101         Exercision mission         MAX10         27         1           101         Exercision mission         MAX10         27         1           102         Exercision mission         MAX10         27         1           103         Exercision mission         MAX15         4         1           104         Exercision mission         MAX10         1         1           105         Exercision mission         MAX10         1         1           106         Exercision mission         MAX10         1         1           1010         Exercision mission         MAX10         1         1           1010         Exercision mission         MAX10         1         1           1010         Exercision         MAX10         1         1           1010         Exercision         MAX10         <	2	830901	FRAME, BARREL	A6063TD	E	
31         830912         SWITCH-MICRO         SS-5GLT/OHEON         1           32         830919         Gun Barreli Ham         -         1         1           101         Sexucces immede         Max100         27         1         1           101         Sexucces immede         Max100         27         1         1           102         Sexucces immede         Max100         27         10         10         27           103         Sexucces immede         Max115         4         1         1         1           103         Sexucces immede         Max115         4         1         1         1           104         Sexucces immede         Max115         4         1 <td< th=""><th>22</th><th>830913</th><th>SPRING</th><th>SWPA D1.0</th><th>-</th><th></th></td<>	22	830913	SPRING	SWPA D1.0	-	
31         830912         SMITCH-MICRO         SS-5G17/OHEON         1           32         830919         Gun Barreli Ham         -         1         1           101         599.40         Gun Barreli Ham         -         1         1           110         599.40         Gun Barreli Ham         -         1         1           110         599.40         500.40         27         27           110         599.40         56         27         27           110         599.40         590.40         27         27           110         590.40         590.40         7         4           110         841.40         1         4         4           110         841.40         1         4         4           110         841.40         1         1         1         1           110         841.40         64         1         1         1           110         841.40         64         1         1         1           111         111         111.00         11         1         1         1					-	
32         830919         Gun Barrell Ham         -         1           101         5994.000 Barrell Ham         -         1         1           101         5994.000 Barrell Ham         -         1         27           102         5994.000 Fires         5964.000 Zr         27         27           102         5994.000 Fires         MAX10         27         26           103         5994.0005 Fires         MAX15         4         4           105         Bart.resoncer new         MAX10         1         1           101         Bart.resoncer new         MAX10         1         1           103         Bart.remneu uco         MAX10         1         1           101         Bart.remneu uco         MAX10         1         1           103         Bart.remneu uco         MAX10         1         1           103         MUT.DOPED.C4P         MAX30         2         1           111         MUT.DOPED.C4P         MS         3         1	m	830912	SWITCH, MICHO	SS-50LT/OMPON	-	
101         SPAL CROBE IMF SIGE         Md X 10         27           102         SPAL CROBE IMF SIGE         Md X 10         27           103         SPAL CROBE IMF SIGE         MG X 15         10           103         SPAL CROBE IMF SIG         Md X 10         27           103         SPAL CROBE IMLS         Md X 15         10           104         SPAL CROBE IMLS         Md X 15         4           105         BLL IMT SI SOUTI CROP         Md X 10         1           105         BLL IMT SI SOUTI CROP         Md X 20         2           103         BLL IMT SI SOUTI CROP         MG X 215         2           103         BLL IMT SI SOUTI CROP         MG X 21         1           103         MLT LONDED CROP         MG X 21         1           111         MLT LONDED CROP         MG X 22         2	33	830919	Gun Barrell Ham		-	
101         сям. самя ми вид         MdX10         27           102         зям. самя ми вид         MdX15         10           103         зеки. самя ми вид         MdX15         10           103         зеки. самя ми вид         MdX15         10           103         зеки. самя ми вид         MdX15         4           104         зям. самв ми вид         MdX10         1           105         вил. не замет се MdX10         1         1           105         вил. не замет се MdX10         1         1           103         вил. не замет се MdX10         1         1           103         вил. не замет се MdX10         1         1           103         мл. литик не о MdX255         2         1           103         мл. литик не о MdX265         2         1           103         мл. литик не о MdX265         3         4           110         мл. обнбо се Р         Md         3         4						
102         Destruction wate         MSX15         10           103         SPEM. OFFICE         MAXB         26           104         SPEM. OFFICE         MAX15         4           105         BL. NATE         4         4           106         BL. NATE         1         4           105         BL. NATE         4         4           106         BL. NATE         4         4           107         BL. NATE         A         4           108         MAX10         1         4           109         MAT. ND. M         MSZ25         2           109         MAT. ND. M         MS         4         1           110         MT. ODED CEP         MS         3         4           111         MT. ODED CEP         MS         2         4	ē		SCREW, CROBE PAN 19945	M4X10	27	ſ
103         speet, gress Trues         M4XB         26           104         speet, gress Trues         M4X15         4           105         au.1.sts spoet or au.1.sts spoet or 105         M4X10         1           106         au.1.sts spoet or au.1.sts spoet or 107         M4X10         1           108         au.1.sts spoet or au.1.sts spoet or 107         M4X10         1           109         au.1.sts spoet or aust.trutton text         M4X30         2           101         bust.trutton text         da         1           102         bust.trutton text         M5X25         2           103         bust.trutton text         da         1           103         bust.trutton         M5         4           110         NUT.00450 CeP         M5         2	ğ		SUEN. CROSS PAN 3040	M5X15	0	
I(d)         spek.ordes Trass         MaX15         4           105         au.t.es sper.or         MaX10         1           106         au.t.es sper.or         MaX10         1           107         au.t.es sper.or         MaX10         1           108         au.t.es sper.or         MaX10         1           109         au.t.es sper.or         MaX10         1           100         au.t.es sper.or         MaX10         2           101         NuT.MCN         M5         4           110         NuT.ONED CPP         Ma         3           111         NUT.OPED CPP         M5         2	ē		SOREV. CROSE ITAJES	M4XB	26	
105         RL1.Le3 SD0FI CP         M4X10         1           106         RL1.Le3 SD0FI CP         M4X10         1           107         RL1.Le3 SD0FI CP         M4X10         2           108         RL1.MITON         M5X25         2           109         NUT.MICON         M5         4           110         NUT.ONCON         M5         4           111         NUT.ONFD CP         M5         2	104		SOMEN. CHOOSE TRUES	M4X15	4	
IDB         RR.1.RX: SOURT OVE         MAX:3D         2           107         RR.1.BUTION END         MSX25         2           108         Levent. Turnension         d/d         1           109         NUT, NML.DN         MS         4           110         NUT, ODMEDI CAP         MS         3           111         NUT, DDMEDI CAP         MS         2	105		BULT. HEX SODET CAP	M4X10	-	
107         вал. витом немо         M5 x 25         2           108         меел. толнев цах         d.a         1           109         NJT, NMLDN         M5         4           110         NJT, DDEED GAP         M6         3           111         NJT, DDEED CAP         M5         2	105		BOLT. HEX SODET CAP	0EX4M	~	
108         week.romen.cox         d.a         1.           109         NJT,MCDN         MS         4           110         NJT,DNED CAP         Ma         3           111         NJT,DDED CAP         MS         2	107		BOLT. BUTTON HEAD	M5X25	~	
109         NJT, MLDN         MS         4           110         NJT, DDED CAP         MA         3           111         NJT, DDED CAP         MS         2	ŝ		MOLEN, TOOTHED LOOK	역		
110 NUT, DOHED CAP M4 3 111 NUT, DOHED CAP M5 2	5		NUT, NM. DN	M5	4	
111 MUT.DOMED CAP MS 2	2		NUT, DOMED CAP	M4	m	Γ
	Ξ		NUT, DOMED CAP	M5	N	





45

7 Annex



ND.	CODE, NO.	NAME	MATERIAL/SPECIFICATION	ary	NOTE
01		BASE	545C/SPCC T3.2	11	
02	830953	RUBBER, STOPPER	UR HS90	2	
03	830955	BRACKET, BEARING	SPCC 13.2	lil	
<u>n4</u>		GFAR	55400	11	
05		SPACER	55400	1	
06		GEAR	55400	2	
07		BRACKET P METER	SPCC 11.6		
08		FRAME	SPCC T2.3	1	
ngt		FRAME	SPCC 12.3	11	
10	830951	PIN. STOPPER	SS400	2	
		INCOCO OTOCOCO	101 11020	121	
12	000002	SHAFT	545C/SPCC T3.2	11	
17		GEAR	55400	tit	
14	······································	BRACKET P METER	SPCC TL.6	11	
15		BRACKET SUSPENSION	SPCC 12.3	tit	
16		BRACKET SUSPENSION	SPCC 12.3	tit	
+		PLATE MASK	SECC TI.6	til	
18		SHEET COVER	PVC TO 5	til	
19	820008			tit	
20	820050	VIRE	GU2	ti	
21	830960	WIRE	G VOI	<b>1</b>	
22	920081	VIRE	A/D IN		
22	030901	* [11L		+ +	
51	920054	STOPPER RUBBER	81-25	14	
52	820054	BEADING	7005	2	
57	830950	POTENT LOME TER	EVS-UDAS25E53	12	
53	030831	RUSH	R-MLCE2010	17	
54	020050	SUSPENSION DUBBER	DR-5-15Y25	$\frac{1}{1}$	
56	630#50	BUSH	NR-35	11	
30		0000		÷	
101	<b>├</b> ──	BOLT HEY SOCKET CAP	Máx10	0	SV. PV
107	<u> </u>	BOLT HEY SOCKET CAP	MAX18	1	
102	<u> </u>	VEY DADALLEI	5x5x10	12	
103	<u> </u>	NUT NYLON	M12	12	
104	<u>}</u>	SCOEN COUSE DAN CENS	M3x6	6	SV PV
100	<u></u>	STREW COOS PAN CENS	M6x15	11	SV PV
100		CODEN CRUDD FAN SEND	MAVE	12	
107	<u> </u>	CODEN, UNUSS INUSS	MAVA	17	N DOLLAT
HUE	1	SUREN, HEX SULKET SET	MGVB	4	N DOTHT
HUS IN	1	SUREN, HEX SULKET SET	06.210	4	PUINT
111	4	SPRUER DU ALM	100-310	-4-	+
<u>µ</u>	l	WASHER, PLAIN	112	-1-2	0.16
112	<u> </u>	WASHER, PLAIN	00		025
11	<u> </u>	WASHER, PLAIN	00	14	<u> </u>
114		WASHER, SPRING	00	- 4	C1. (11)
1115	기	ISCREW, CRUSS PAN SEMS	M4X1U	11	58, PR

# FIG.5 UNIT, MECHANISM



