



DE7350



Costruttore TECALEMIT GARAGE EQUIPMENT CO LTD
Constructeur EAGLE ROAD, LANGAGE BUSINESS PARK
Manufacturer PLYMOUTH, DEVON - PL7 5JY UK
Hersteller Tel.00441752219111
Constructor
Fabrikant

***Centro di Assistenza Autorizzato
Centre d'Assistance Autorisé
Authorized Service Centre
Kundendienstcenter
Centro de Asistencia Autorizado
Geautoriseerde dealer***

Rev.15.....03/06/2010

0	FOREWORD	3
0.1.	HOW TO READ AND UTILIZE THIS MANUAL	3
0.2.	IMPORTANCE OF THE MANUAL.....	3
0.3.	CONSERVATION OF THE MANUAL.....	3
0.4.	CONSULTING THE MANUAL.....	3
0.5.	UPDATING THE MANUAL.....	4
0.6.	REQUESTING A NEW MANUAL	4
1	GENERAL REMARKS.....	5
1.1.	CHARACTERISTICS	5
1.2.	LIMITATIONS ON USE.....	5
1.3.	IDENTIFICATION DATA.....	6
1.4.	SERVICE	6
2	INSTALLATION	7
2.1.	TRANSPORTATION OF PLAY DETECTOR.....	8
2.2.	INSPECTION OF COMPONENTS.....	8
2.3.	INSTALLING THE PLAY DETECTOR	9
2.4.	CONNECTION TO POWER MAINS	9
2.5.	TAKING THE MACHINE OUT OF SERVICE	9
3	DESCRIPTION OF THE PLAY DETECTOR.....	10
3.1.	BEFORE STARTING OPERATION WITH THE PLAY DETECTOR	10
3.2.	OPERATION	10
4	SAFETY DEVICES.....	12
4.1.	PRECAUTIONS	12
4.2.	SAFETY DEVICE.....	13
4.3.	TROUBLE SHOOTING TABLE	13
5	MAINTENANCE.....	14
5.1.	CONTROLS AND CALIBRATION.....	14
6	ANNEXES – PARTS LIST	15

0 FOREWORD

0.1. HOW TO READ AND USE THIS MANUAL

This Manual is the official document that provides the necessary instructions for use and maintenance of the Machine to which it refers.

The information contained in the Manual should be considered as truthful and in this connection the Manufacturer may not be held responsible for damage to property or persons due to any use of the Machine other than as indicated in this document.

0.2. IMPORTANCE OF THE MANUAL

This Manual must be considered as integral part of the Play Detector.

The Manual should be kept for the entire useful life of the Play Detector.

The Manual should accompany the Play Detector if sold or transferred. In this case the seller should inform the Manufacturer of the transfer by letter or fax.

In addition to all useful information for operators, the Manual contains in specific chapters all wiring, pneumatic and hydraulic diagrams, for any kind of control, maintenance and repair operations.

0.3. CONSERVATION OF THE MANUAL

The Manual should be kept in a safe place protected from humidity and excessive heat.

Consult the Manual in such a way as not to damage all or part of its contents.

Do not tear pages out of the Manual.

0.4. CONSULTING THE MANUAL

The Manual has been drawn up according to the indications in **Machine Directive 2006/42/CE**

It is basically composed of:

- A. The cover page with identification
- B. Index of chapters
- C. Alphabetical index by subjects
- D. Instructions for use of Play Detector.
- E. Drawings of single and assembled parts.
- F. Tables of Spare Parts
- G. Enclosures

A - Cover page

The cover in stiff colored cardboard identifies the Play Detector that this Manual refers to.

The cover contains:

The Manufacturer's Logo
The type of Play Detector
Identification code
Date of Edition
Version of Play Detector.

B - Index of Chapters

The Index of Chapters lists the topics covered by the Manual.

C - Index

The Index details the Chapters extending the research of subtitles topic by topic.

D - Instructions for use of Play Detector

This part of the Manual provides a detailed description of how the Play Detector functions, the operations to perform to use it properly, instructions for installation, safety recommendations, procedures for intervention of the operator.

E - Drawings of single and assembled parts

This part contains the main construction drawings and assembled drawings relative to the various parts of the Play Detector.

F - Tables of Spare Parts

These Tables, that refer to the drawings provided in the previous chapter, identify the parts of the relative sections indicating the number installed and the recommended number of spare parts for replacement.

G - Enclosures

This part contains all the technical documents relative to the parts purchased from suppliers and used by the Manufacturer in the construction of the Play Detector. References in the text of the Manual will facilitate their consultation.

0.5. *UPDATING THE MANUAL*

In case of substantial modifications to the Play Detector, the Manufacturer will provide the Customer with a new version of the Manual in which all the modifications to the Machine will be included.

The previous version will then be withdrawn by the Manufacturer in order to ensure the proper congruence between the Play Detector and the Manual.

0.6. *REQUESTING A NEW MANUAL*

If this Manual should be lost or damaged, the client can request a copy from the Manufacturer.

Please fax the request with identification data of Play Detector shown on the plate applied to its structure. This will incur an administration charge.

1 GENERAL REMARKS

Simple and affordable construction as well as easy use and maintenance are the key element which feature Play Detector and distinguish from other on the market.

These qualities, the result of accurate calculation and engineering, and the use of the most reliable components, make these machines the best that engineering and advanced technology can offer today in this sector.

1.1. CHARACTERISTICS

Max Capacity on each plate	Kg.	1300
Max. stroke platform DX (RIGHT)	mm	± 40
Max. angle platform SX (LEFT)	°	± 15
Max Thrust for each plate	Kg.	800
Minimum inner distance (to be respected according type of lift)	mm	890
Maximum outer distance (to be respected according type of lift)	mm	2020
Weight	Kg.	90
Power supply and	V.	230/400 ±10% / 50 Hz ± 2%
	V.	24 ±10% / 50 Hz ± 2%
Power	Kw.	3
Maximum oil pressure	Kg/cm	185
Nominal Motors Absorption	A.	8,7
Working temperature	°c	-10 - 55
Humidity		30 - 95% _(without condensation)
Noise	dB (A)	Leq (A) < 75

1.2. LIMITATIONS ON USE

The Play Detector cannot be used for vehicles whose inner dimension of wheel track is less than 890 mm, and outer dimension of wheel track greater than 1800 mm

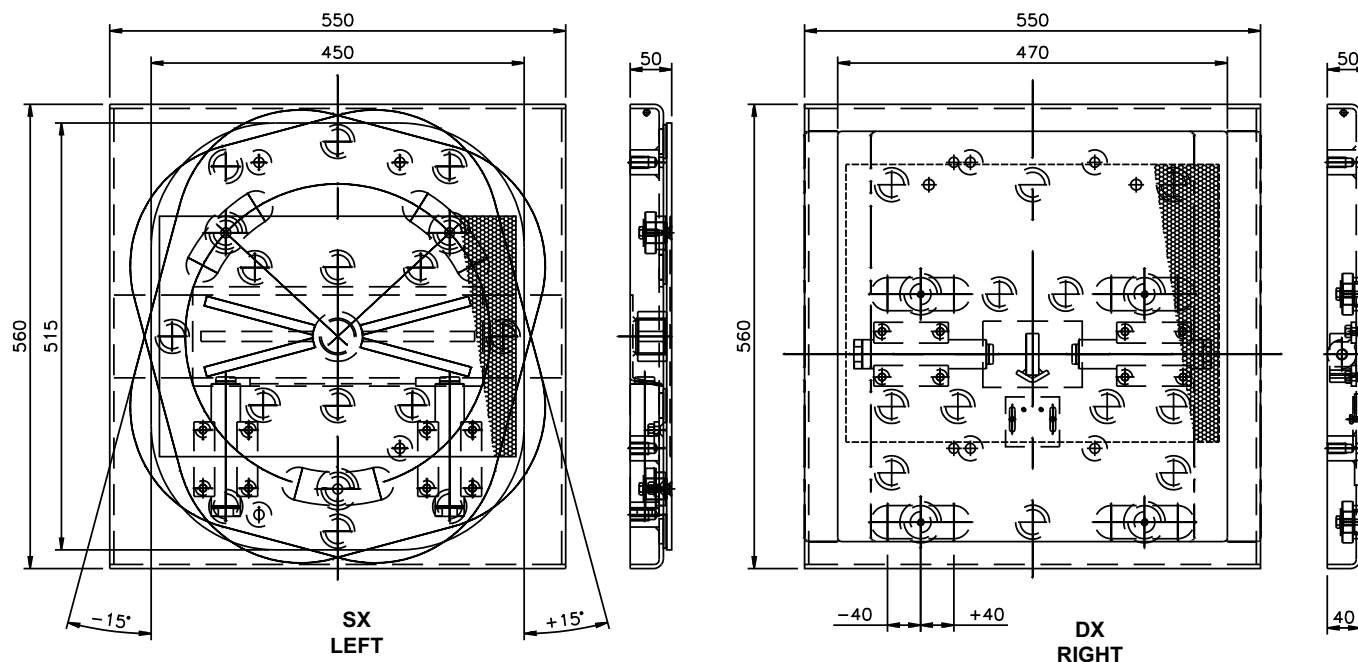
The Play Detector should be used in environments **free of explosion hazards**.

The Play Detector must be housed in an environment having the following characteristics:

- Temperature between -10 and 55 °C
- Humidity between 30 and 95 % without condensation

This Play Detector have been designed and constructed for being used exclusively with vehicle lift manufactured by the company.

PLAY DETECTOR DIMENSIONS



1.3. IDENTIFICATION DATA

The identification data for the Play Detector are displayed on an aluminum plate fastened in a readily visible place on the Machine.

The figure shows the identification plate.



See the nameplate position in the following drawing

SX
LEFT

1.4. SERVICE

The Play Detector to which this manual refers is guaranteed by the Manufacturer for a period of 12 months from the date of installation.

Service is guaranteed by the Manufacturer (or local distributor, if any). Call **+44-01752-219100**.

2 INSTALLATION

For safe installation of the Play Detector, avoiding risks to third parties as well as to the personnel performing the work, we recommend to follow instruction below:

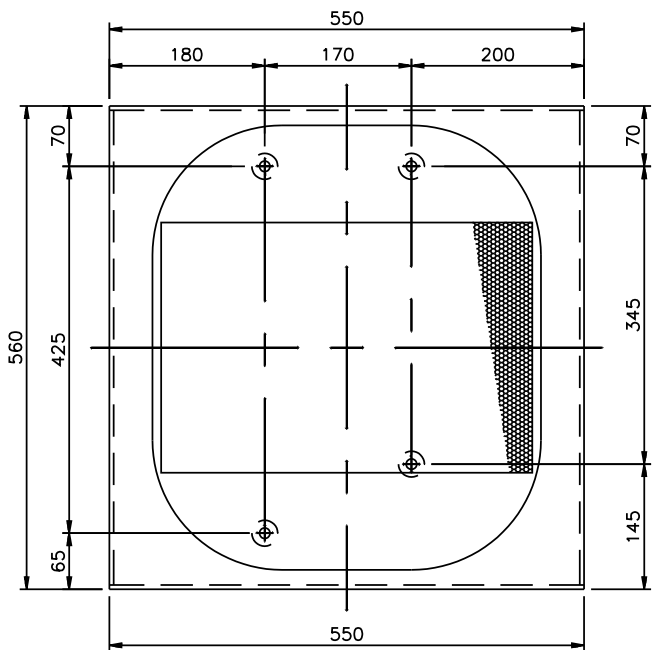
Verify the max pressure of the main hydraulic unit do not exceed 185 bar.

Verify that main supply line could deliver 230V - 50Hz - 1Ph, or 400V - 50Hz - 3Ph.

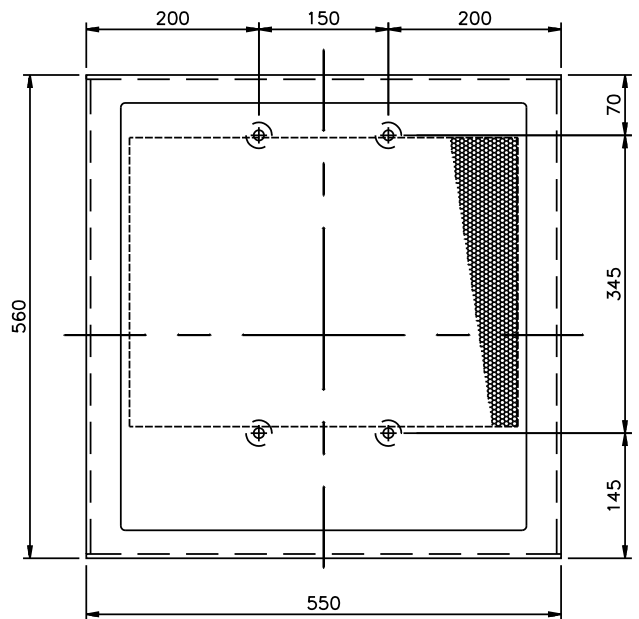
Verify that inside the main control unit could deliver a voltage of 24V 50Hz.

Verify that simple platform (without lifting cilinder) is framed type (fixed with screws to crossmember)

In order to fix both platforms of play detector to main lifting platforms verify that the following holes are provided in the base surface of each platform's recess:



SX
LEFT

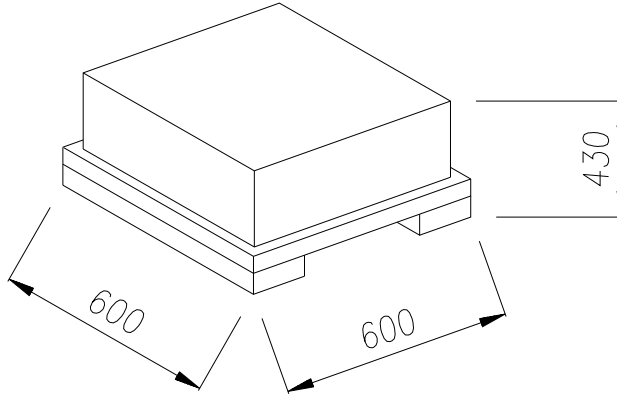


DX
RIGHT

2.1. TRANSPORTATION OF PLAY DETECTOR

All operations of hoisting and unloading the Play Detector must be carried out in full respect of the regulations in effect,

The figures illustrate the method recommended by the Manufacturer for loading and unloading the Play Detectors **in case of delivery without the lift:**



In case of delivery with of 4 post lift the a.m. method is not necessary because the play detector is mounted on lift's platforms.

2.2. INSPECTION OF COMPONENTS

On receipt of the shipment, it is very important to inspect the material received.

Particular attention should be given to:

Documents vs. Goods : no. of packages
Weight and dimensions

Physical state of goods :Condition of packages
Absence of damage

The goods should be inspected with the maximum care in the presence of the carrier because, in spite of the extreme care used by the Manufacturer in the selection of packing materials, there is always the possibility of damage occurring during shipment.

In this connection we point out that the goods are shipped at the buyer's risk, therefore **TECALEMIT** is not responsible for damage during transport.

2.3. **INSTALLING THE PLAY DETECTOR**

After inspecting the shipment, the play detector can be moved plate by plate by handles, using 2 persons in order to reduce the weight lifted for each of them.

Place platform DX (RIGHT) with only lateral movement on the right side of the vehicle. Verify the efficiency of microswitch (push the lever with roll and hear the click of micro acted).

Place platform SX (LEFT) with steering movement on the left side of the vehicle. Verify the efficiency of microswitch (push the lever with roll and hear the click of micro acted).

Place the control box with handlamp and selector + movement pushbuttons near to the main control box of the lifter to prepare to connect to the main central unit.

Take out the hydraulic rubber hoses and electric cables in order to prepare the connection with electro-valves (either to magnets and to the electro-valve bodies)

Pass rubber hoses from the main central unit where the first flow direction electro-valve is mounted. The supply rubber hose must reach the electro-valve block, as well as the returning rubber hose (or rilsan hose) must be connected to the returning hose of the main lifting unit. Make sure all nipples are securely fastened with copper washers.



 **CAUTION TAKE CARE OF ELECTRIC CABLES**

The personnel assigned to perform these operations should make sure no extraneous persons are standing in the way of movement.



2.4. **CONNECTION TO POWER MAINS**

Connect the main control box of Play Detector near to the main control panel of the lift where the Play Detector is to be mounted.

From lift main control panel must be provided either a 24 VAC – 50 Hz supply (max absorption around 70 VA) , and a 230 VAC – 50 Hz supply for the handlamp.

Connect ends of microswitches FCDX and FCSX to the right connectors inside the control box. Usually color correspond into color.

Pass cables for electro-valve magnets to reach the position of electro-valve block under the platform designed to house it.

It is up to the user to ascertain that the power mains comply with international and local safety standards. The Manufacturer is not responsible for damage due to “Non-Conformity” of the electrical system. The manufacturer will not be liable for any malfunctioning caused by disturbance from other equipment.

It is essential to make the “EARTH CONNECTION”, using a 0,03A differential switch, and checking its correct functioning (**W**) by means of an appropriate measuring device.

2.5. **TAKING THE MACHINE OUT OF SERVICE**

In order to facilitate disposal of the different play detector components, they should be sorted into categories. Consider the units to be special waste that must be disposed of by specialized companies in compliance with current regulations.

3 DESCRIPTION OF THE PLAY DETECTOR

3.1. BEFORE STARTING OPERATION WITH THE PLAY DETECTOR

Verify the right direction of rubber hoses to cylinders in each platform DX (RIGHT) and SX (LEFT).

Use a male-male ¼" nipple to connect both sides of rubber hoses either in platform DX (RIGHT) and SX (LEFT). As for particular configuration of cylinders this operation looks like to load oil into the complete circuit enabling a first air circuit bleeding. Test the direction of movement using the headlight lamp.

Push one button firmly for 5-10 seconds, then release it up to the motor stop. Push the other button for 5-10 seconds, then release it up to the motor stop. Repeat the operation for 2-3 times so the circuit is completely loaded and bleed from air. Repeat the operation also by switching the handlamp selector from DX (RIGHT) to SX (LEFT).

Open the male-male ¼" nipple and fix both ends of rubber hoses to each of hydraulic cylinder in platform DX (RIGHT). Repeat the operation in hydraulic cylinder platform SX (LEFT).

Make sure the connection of each platform DX (RIGHT) and SX (LEFT) to the main lifter platform are well tightened, as well as connection of both main lifter platforms to both crossmembers.

You are now ready to operate with the play detector.

3.3. OPERATION

Make sure that nobody is on board the vehicle to be lifted. No bystanders are accepted nearby or under the operation area of play detectors and lifter.

Make sure that no tools or parts are placed on both sliding plates of play detector.

Make sure that lift is placed in a locked position in each column, to ensure not to work on stressed lifting cables

In case of error message and block on the control unit, check with care to ascertain the causes of the interruption and remove them before starting the control unit again. Contact the personnel responsible for the Play Detector, if necessary.

On the handlamp you can find 2 pushbuttons and a selector.
Each of the pushbuttons are able to provide either one movement in one direction by pushing and the opposite movement by releasing.
The other pushbutton is able to provide with reverse movement.
These pushbuttons act on solenoid C13 and C14 (see electric scheme annexed)

Selector CTP is able to provide DX (RIGHT) or SX (LEFT) selection.
The selector acts on solenoids C11 and C12 (see electric scheme annexed).

By standing under a lifted vehicle switch on the lamp by using one pushbutton.
Press a movement button, the platform will move to the end stroke, then release.
The platform will slide back to its centered position automatically.
Then push the other pushbutton firmly, the platform moves in the opposite direction, then release.
The platform will slide back to its centered position automatically.

By selecting the other platform with the selector on the handlamp you prepare the other examinations.
Repeat previous operation to act on other platform.

The sliding platform which test the steering clearances consists of one fixed platform and one sliding platform.
The sliding platform is performing a tyre reaction similar to those of a steering movement, without using the steering wheel in the vehicle cabin.

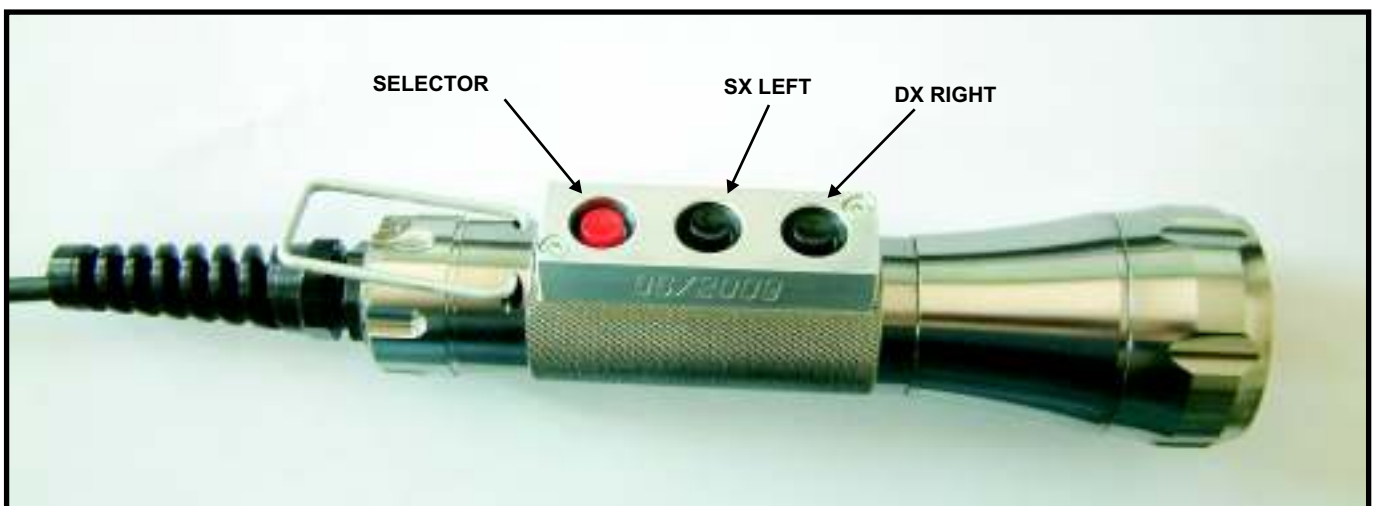
The sequence of operation shall be in accordance with the current issue of:

THE MOT INSPECTION MANUAL Car and Light Commercial vehicle Testing

Do not climb on or off the raised vehicle without using appropriate ladders.

Do not perform tests on the motor or do anything else that could apply traction to the wheels.

Do not load the vehicle with tools or parts that could increase its weight beyond the capacity of the Play Detector



4 SAFETY DEVICES

The Play Detector has been manufactured in compliance with the provisions issued by “Machine Directive 98/37/CEE” and all the following harmonized standards

4.1. PRECAUTIONS

For the safety of the Play Detector and that of the operator using it, the following general rules are provided for correct operation:

- The Play Detector should be under the control of authorized personnel only.

It is important to remember that mobile elements of the Machine are potentially dangerous for possible crushing, pinching and shearing of human body, such as hands, arms, feet, legs, head, either for operators as well as for anyone nearby the machine.

The danger of crush injuries particularly concerns:

A. Persons working under the elevated vehicle, therefore it is required that the operator at the Control Panel have complete visibility of the zone.

The speed of descent of the lift is, slow as compared to the reaction time of an operator, so that he has time to remove the limb without injury.

B. Hands and fingers of operator which is performing the test.

- Make sure the load to be hoisted does not exceed the maximum nominal capacity of the play detector.
- Before hoisting the load, make sure the turning wheels of the vehicle are straight, if the case occurs.

Locate the left wheel of the vehicle into the V recess of steering plate SX (LEFT)

- The work area should be free of unauthorized personnel.

Do not apply external forces on the raised vehicle (Traction, lifting, etc.)

Check the stability of the vehicle in the raised position before any kind of operation.

4.2. SAFETY DEVICE

The Play Detector has been designed to function with ample safety margins thanks to the devices provided by the Manufacturer.



Never disconnect the safety devices for any reason. Otherwise the Manufacturer will not be responsible for any damage to property or persons caused by similar negligence.

The main devices provided are the following:

- Fixed flow limiter (to limit max cylinder speed).
- Mechanical stops at the end of each plate stroke.
- Hydraulic cylinders with overload valve.

4.3. TROUBLE SHOOTING TABLE

SYMPTOM	CAUSE	REMEDY
<p>Plate DX (RIGHT) or SX (LEFT) do not return to centered position, but remains at one end of the stroke.</p>	<p>Fault in either microswitch FCDX or FCSX.</p> <p>Position of microswitch is missed.</p> <p>Fault in the solenoid C13 or C14.</p>	<p>The microswitch could be broken in some inner contacts (it has 2 contact NC).</p> <p>Open both plates as described in chapter 5. and verify tightening of microswitch onto main play detector body.</p> <p>Verify whether the position of sliders acting on the microswitch is in the correct position, or adjust it.</p> <p>Check connection on board of solenoid valves C13 and C14, or into the main connector of handlamp.</p>
<p>Platforms are sliding very slowly, even without load.</p>	<p>Dirty part into the orifice at the returning hoses from aluminium solenoid block.</p>	<p>Unscrew nipple ¼” from delivery hose from aluminium block (made in RILSAN plastic). There is inside a small black screw M8 with an hexagonal female key, which has an orifice diameter 0,8 mm. Check whether this orifice is free or has some dirty part which create obstacle to oil flow.</p>
<p>One platform is working regularly, the other doesn't work at all.</p>	<p>Problem in the handlamp selector. It doesn't switch on C11 and C12</p>	<p>Check whether with selector on handlamp you hear the “tic” which signals the on-switching of both C11 and C12. Check connection on board of solenoid valves, or into the main connector of handlamp.</p>
<p>Both plate work in one direction only.</p>	<p>One pushbutton is broken or contacts are failing.</p>	<p>Open the handlamp and verify the pushbutton and its contacts.</p>

5 MAINTENANCE

Thanks to the simplicity of construction and operation of Play Detector, it requires very little maintenance.

It should be sufficient to follow the few simple rules in this chapter to ensure reliable performance in time.

The play detector could have dirty parts even above or under the sliding platforms. For this reason it is required to clean and inspect the surface under sliding plate every 6 months.

- 1) Unscrew the 4 screw under each main lifting platform which fix the play detector to them.
- 2) Unscrew the 4 screw on sliding rollers inside transversal guides. Rollers are now free to be removed as well as the sliding plate.
- 3) Remove the sliding plate and clean the surface, taking care of support face of plastic pads which work on the sliding plate. Remove any dust or other parts which could scratch the plastic pad.
- 4) Clean the rollers sliding into transversal guides, removing any old grease or dust on it.
- 5) Grease the dismantled part as little as you can (grease is able to capture dust or other hard parts which could damage plastic pads and rollers).
- 6) Mount again the sliding plate into provided position, mount the sliding plastic rollers, and fix with 4 screws and washer. Then put the plate into the main plate recess and tighten the last 4 screw from underneath the main lifting platform.

Check that other electrical and mechanical parts are in good condition, clean and suitably greased. Check that the paint is in good condition and that there is no rust.

 **CAUTION !**
WHILE DISPOSING USED OILS AND LUBRICANTS REFER TO THE LOCAL RUNNING REGULATION.

5.1. CONTROLS AND CALIBRATION

The following checks must be made periodically during the maintenance:

check the solenoid connectors whether correctly fixed on the main body of them solenoids.

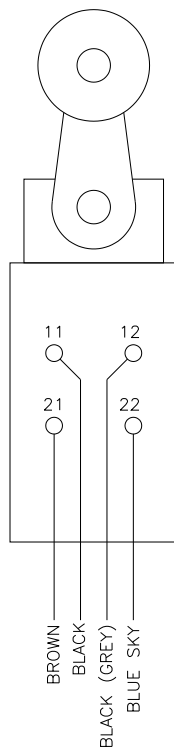
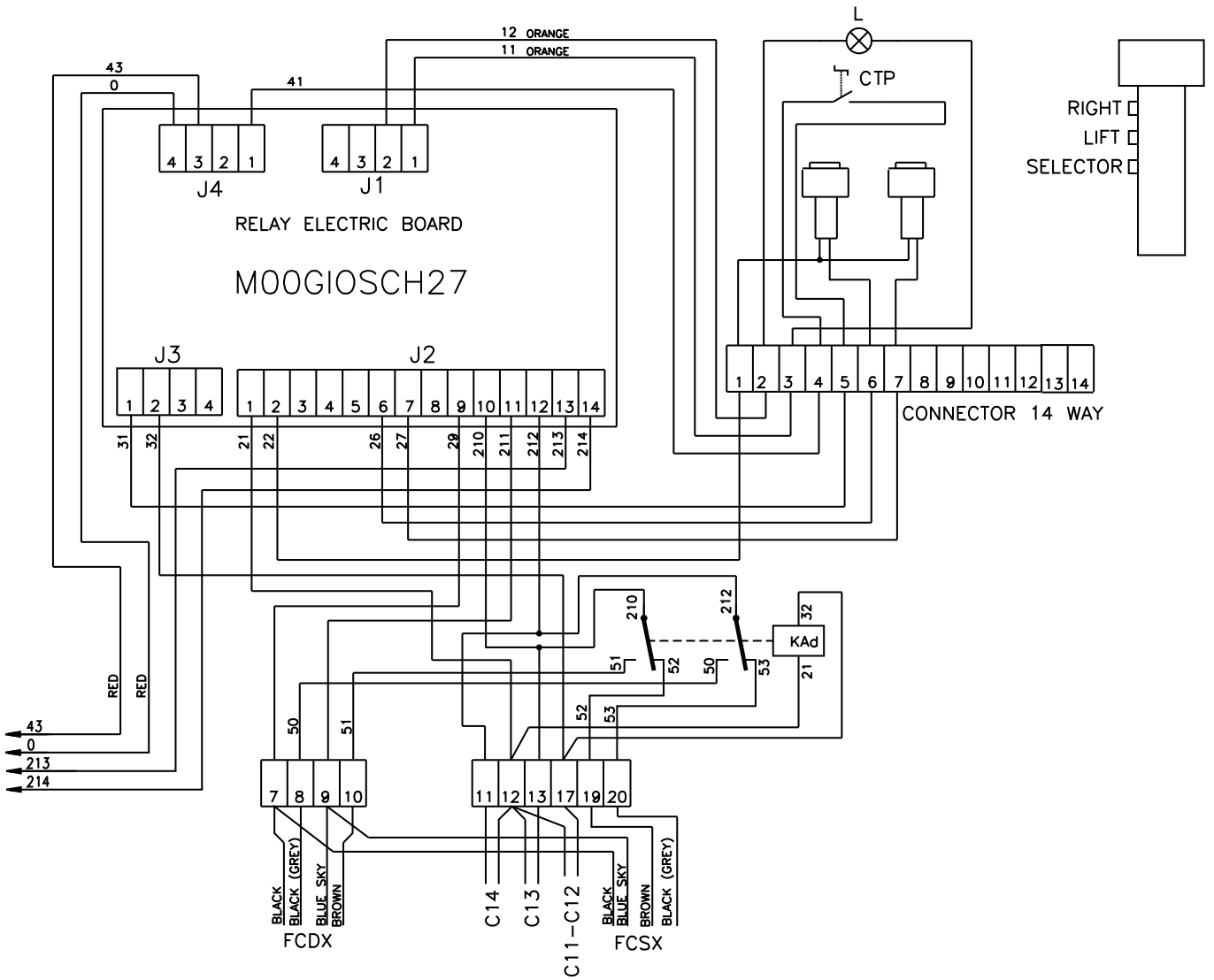
Check all hydraulic connections.

Verify if the centered position of each sliding plate DX (RIGHT) and SX (LEFT) is maintained with both pushbuttons.

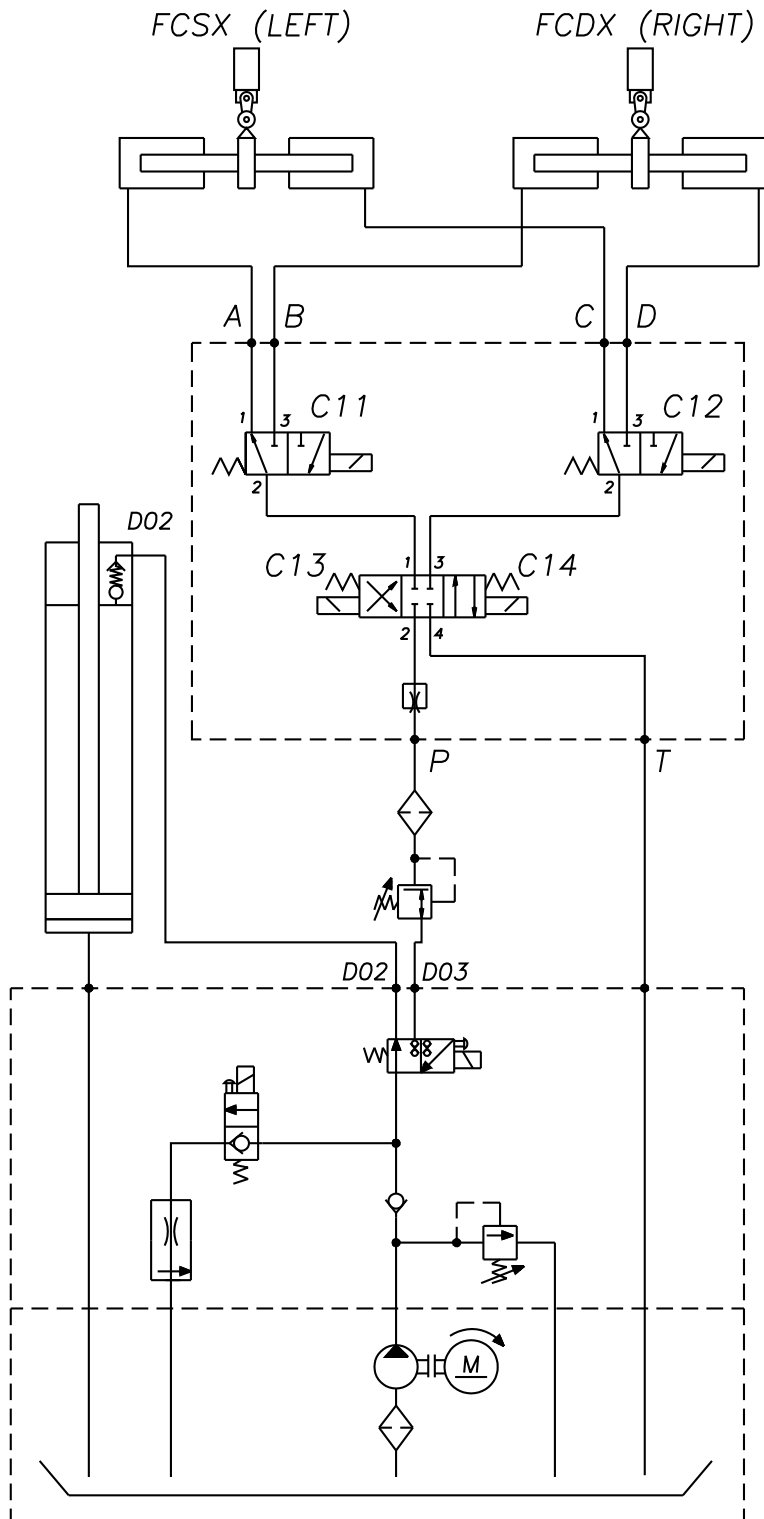
Check that all internal electric connections are secured correctly.

6 ANNEXES – PARTS LIST

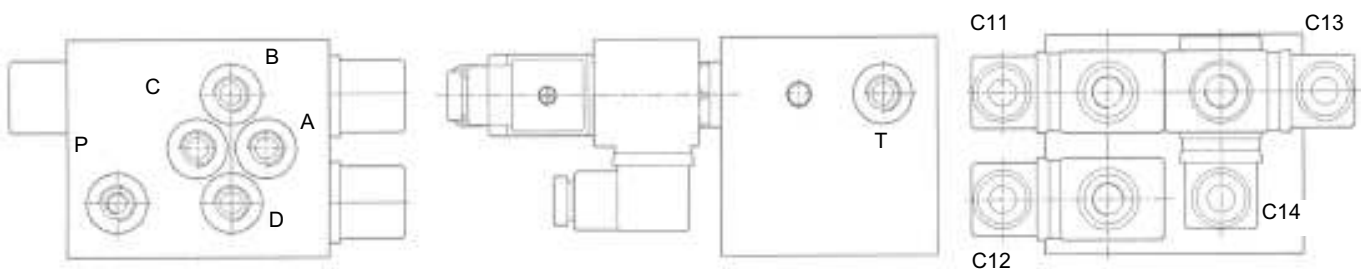
WIRING DIAGRAMS AND HYDRAULIC

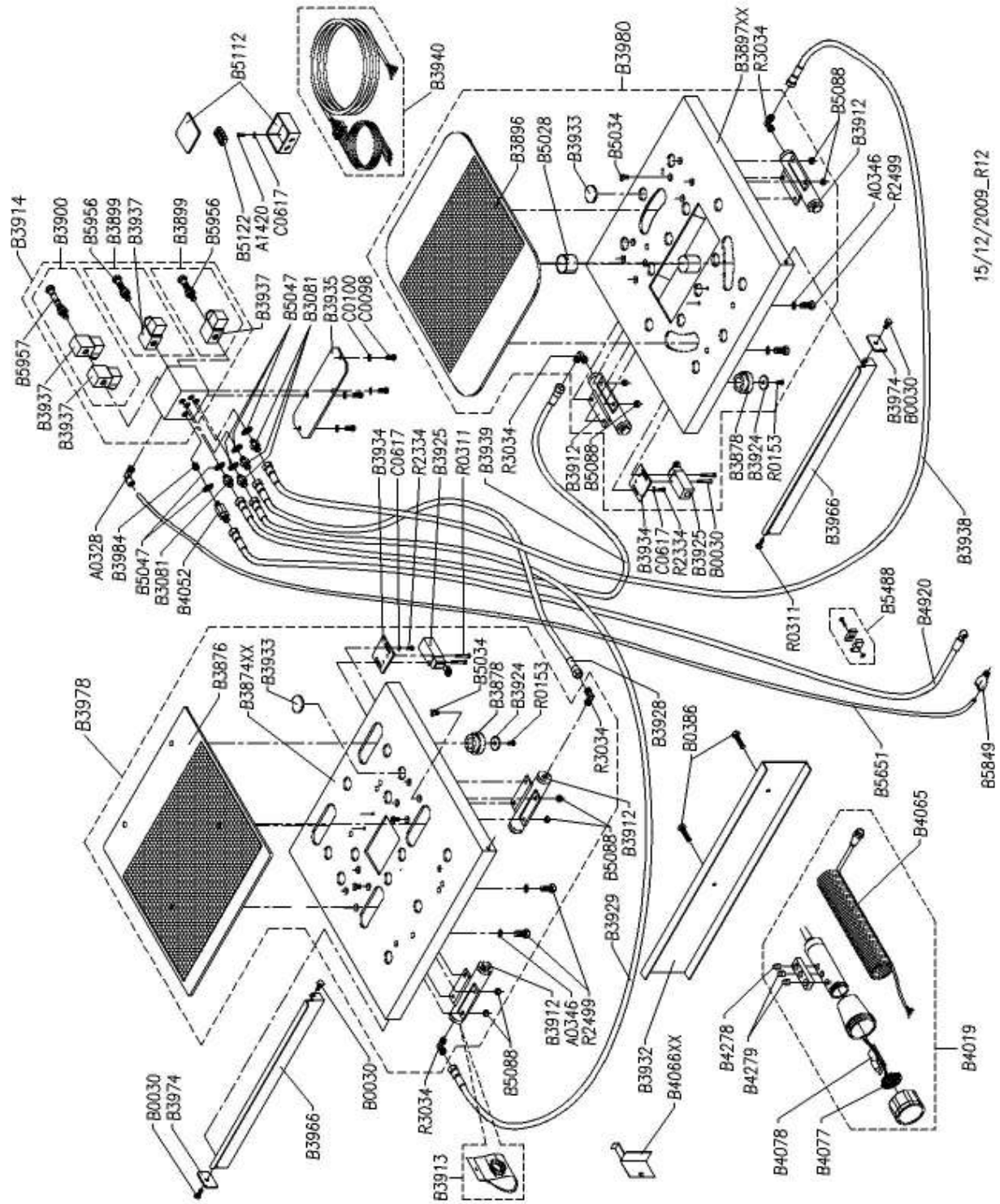


HYDRAULIC CIRCUIT DIAGRAM



FC1	Microswitches
FC2	Microswitches
C11	Solenoid valve
C12	Solenoid valve
C13	Solenoid valve
C14	Solenoid valve





15/12/2009_R12

Part Code	Sugg.	Description
A0328		"L" MALE CONNECTION G1/4" Ø8
A0346		WASHER 12 X 24 UNI 6592
A1420		SCREW 6X12 8.8 UNI 5739
B0030		SCREW TE M8X16 UNI 5739
B0386		SCREW M8X40 UNI 5739
B3081		1/4" NIPPLES
B3874XX		RIGHT SHEET PLAYDETECTOR
B3876		RIGHT UPPER COVER
B3878		WASHER SLIDING
B3896		LEFT UPPER COVER
B3897XX		LEFT SHEET PLAYDETECTOR
B3899		COMPLETE ELECTRO-VALVE
B3900		COMPLETE ELECTRO-VALVE
B3912		CYLINDER
B3913	*	CYLINDER GASKET KIT
B3914		COMPLETE MANIFOLD
B3924		WASHER Ø12X36 UNI 6592
B3925		MICROSWITCH TYPE PIZZATO FR 1115-1
B3928		B HOSE
B3929		D HOSE
B3932		HOSE CASING
B3933		SLIDE PAD
B3934		MICROSWITCH SUPPORT
B3935		MANIFOLD SUPPORT
B3937		SOLENOID VALVE COIL
B3938		A HOSE
B3939		C HOSE
B3940		ELECTIC CABLES KIT
B3966		PROFILE
B3974		WASHER
B3978		COMPLETE RIGHT PLAY DETECTOR PLATE
B3980		COMPLETE LEFT PLAY DETECTOR PLATE
B3984		SCREW M8X8 UNI 5923 WITH HOLE Ø0,8
B4019		COMPLETE HANDLAMP
B4052		OIL FILTER
B4065	*	ELECTRIC CABLE
B4066XX		HANDLAMP COUPLER
B4077	*	GLASS WITH LEDS
B4078		LAMP BOARD
B4278	*	LAMP RED SWITCH
B4279	*	LAMP BLACK PUSH BUTTON
B4920		PRIMARY HOSE
B5028		BUSHING Ø 40 X 44 X 30 MBI - CB85 - 4030
B5034		SCREW M8X12 UNI 5933
B5047		GASKET WITH 1/4" SEAL
B5088		NUT M8 UNI 7474
B5112		CONNECTOR BLOCK
B5122		TERMINAL BOARD
B5488		DOUBLE COLLAR BODY 1/4
B5651		RECOVERY PIPE
B5849		QUICK "Y" CONNECTION M1/4"-Ø8 S6450
B5956		VALVE V3DS-2P
B5957		VALVE V3DS-3P
C0098		SCREW M8X20 UNI 5739
C0100		WASHER Ø8,4X17 UNI 6592
C0617		WASHER Ø6,4X12,5 UNI 6592
R0153		SCREW M8X25 UNI 5739
R0311		SCREW 5X30 UNI 5931
R2334		SCREW M6X8 UNI 5931
R2499		SCREW M12X20 UNI 5739
R3034		"L" CONNECTION M/M 1/4"
Z_RICAMBI		* = RECOMMENDED SPARE PARTS

Declaration of Conformity - Déclaration de conformité
 Dichiarazione di conformità - Konformitätserklärung
 Declaración de conformidad - Overensstemmelseserklæring
 Samsverserklæring - Överensstämmande intyg
 EG-Conformiteitsverklaring



TECALEMIT GARAGE EQUIPMENT CO LTD
EAGLE ROAD, LANGAGE BUSINESS PARK
PLYMOUTH, DEVON - PL7 5JY UK
Tel.00441752219111



hereby we declare that the
 déclare par la presente que
 con la presente dichiariamo che
 hiermit erklären wir,
 por la presente declara,
 Vi erklærer hermed,
 Vi erklærer herved,
 Vi förklarar härmed
 verklaren hiermee,

DE7350

I	è stato costruito in conformità alle direttive 2004/108/CE - 2006/42/CE - 2006/95/CE	ha sido fabricado según las directivas 2004/108/CE - 2006/42/CE - 2006/95/CE	E
F	a été construite en conformité avec les directives 2004/108/CE - 2006/42/CE - 2006/95/CE	er fremstillet i overensstemmelse med bestemmelserne i 2004/108/EØF - 2006/42/EØF - 2006/95/EØF	DK
GB	has been manufactured in conformity with the directives 2004/108/CE - 2006/42/CE - 2006/95/CE	är framställt i överensstämmelse med bestämmelser i RÅDETS DIREKTIV 2004/108/CE - 2006/42/CE - 2006/95/CE	S
D	in Übereinstimmung mit den Richtlinien 2004/108/CE - 2006/42/CE - 2006/95/CE	Producten zijn gefabriceerd in overeenstemming met de richtlijn 2004/108/CE - 2006/42/CE - 2006/95/CE	NL

Matricola N° - N° de série -
 Serial N° - Maschinennummer

Fascicolo tecnico - Dossier technique
 Technical file - Techn. Dokumentation

TECALEMIT GARAGE EQUIPMENT CO LTD
 EAGLE ROAD, LANGAGE BUSINESS PARK
 PLYMOUTH, DEVON - PL7 5JY UK

PLYMOUTH, DEVON
 03/06/2010

John Cowsill Operations Director