This manual is intended for use in the identification, requisition, and issuance of parts for the Hurco Autobend 7 Gauging System. Parts listed in this manual meet specific critical equipment design specification requirements. The use of any non-recommended substitute replacement parts may be the source of added trouble. Do not assume that if parts look alike, they are the same. The majority of parts have special properties known only by the manufacturer. The specific parts are the result of particular requirements established by extensive research and testing. There is a continuing program to further improve existing parts. Many of these improvements cannot be detected by visually comparing old and new parts. For these reasons, it is extremely important that only recommended replacement parts be used.

the source of a problem.

#### Note

This manual may be used for the upgrade control. Original parts listed and wiring diagrams shown may not be illustrated in this manual. Refer to the original manuals for the correct diagrams.

Hurco products should be used only for the purpose and in the manner intended by their original design. It is recommended that this product not be modified. Any modification of this product will void any expressed or implied warranty.



704-0101-660 Parts Listing and Wiring Diagrams Autobend 7 June 2000 **Revision E** 

The Wiring Diagrams in this manual are intended as an aid to isolate a malfunction when it becomes necessary to troubleshoot the machine to find

#### Notice

The information in this document is subject to change without notice and does not represent a commitment on the part of Hurco® Companies, Inc. (Hurco). No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, for any purpose without the express written permission of Hurco.

© 1998 Hurco Companies, Inc. All rights reserved. Printed in the United States of America.

Adira is a registered trademark of A. Dias Ramos-Maquinas Ferramentas LDA. Amada is a registered trademark of Amada Co. Ltd. Autobend is a registered trademark of Hurco Companies, Inc. Copley is a registered trademark of Copley, Inc. Guifil is a registered trademark of Guimaraes & Filho LDA. Hurco is a registered trademark of Hurco Companies, Inc. IBM and PC/AT are registered trademarks of International Business Machines Corp. Komatsu is a registered trademark of Komatsu Ltd. LVD is a registered trademark of LVD Company, n.v. Loire Safe is a registered trademark of Loire S.A.F.E. S.A. Mebusa is a registered trademark of Metalurgica Burcéna S.A. Megobal is a registered trademark of Metalurgica Gomes & Barros LDA. Promecam is a registered trademark of Amada Co. Lt. Rico is a registered trademark of Tomas Castro Silva LDA.

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Hurco has listed here all trademarks of which it is aware.

Patents: U.S. Patents B14,477,754; 5,453,933; Canadian Patent 1,102,434; Japanese Patents 1,649,006 and 1,375,124; other Patents pending.

For more information on Hurco products and services, contact the corporate headquarters in Indianapolis, Indiana or one of the subsidiaries listed below:

> Hurco Companies, Inc. One Technology Way P.O. Box 68180 Indianapolis, IN 46268-0180

TEL (317) 293-5309 FAX (317) 328-2806

Hurco s.a.r.l. Centre Hurco Belgique, Espagne, France, Portugal Parc d'activite Charles de Gaulle 4. rue Jean Monnet - BP 702 95197 Goussainville Cedex France TEL (1) 39.88.64.00 FAX (1) 39.92.94.83

Autocon Technologies, Inc. 38455 Hills Tech Drive Farmington Hills, MI 48331-5751

TEL (248) 488-0440 FAX (248) 488-0430 Hurco Europe Ltd.

Lincoln Road **Cressex Industrial Estates** High Wycombe Buckinghamshire, England HP12 3TH TEL (01494) 442222 FAX (01494) 4444646

No. 37 Lorong 23 Geylang

Singapore 1438 Republic of Singapore

TEL (65) 742 6177 FAX (65) 745 7664

Hurco GmbH Benzstrasse 8 85551 Kirchheim Munich, Germany TEL (089) 9050 9434

## Hurco Southeast Asia Pte Ltd

#0501, Yu Li Industrial Building

FAX (089) 9050 9450

# **Safety Precautions**

It is important to follow all of Hurco and the press brake manufacturer's safety precautions to avoid personal injury, damage to the machine, and unproductive downtime. Installers must also follow the safety regulations of their shops.

This section is included to address the safety hazards normally encountered with the intended use and the *foreseeable misuse* of the Autobend 7 Gauging System. This product was intended to be used by trained operators who create metal bending programs either on the console or an off-line system. These operators then run the programs to bend metal. While running the machines, the operators must use their experience and training to make any necessary adjustments and improve the efficiency of their programs.

This safety section describes common problems seen by Hurco Service representatives with suggestions for avoiding or dealing with the problems in a safe manner. However, this information is not an exhaustive description of all of the possible misuses of the machine nor is it a substitute for operator training, skill, and good judgment. Hurco does not accept any liability for *operator error*.

#### **Owner's Responsibilities**

The Autobend 7 Gauging System owner has several responsibilities regarding safety. First, the owner must read this section of the manual and implement the safety requirements described. Then the owner must be certain that the operators in the shop are properly trained and are using the machine as it was intended to be used. The owner must be certain that the operator assigned to run the Hurco Autobend 7 machine is trained by Hurco.

If the Hurco trained operator leaves the shop, the owner is responsible for providing training for the new operator assigned to run the machine. The owner may wish to send operators to Hurco training classes or classes held by distributors. Refer to the addresses and telephone numbers in the beginning of this manual for Hurco training sites. If there are no training sites in the vicinity of the shop, call the nearest Hurco facility for information about on-site training or other special training opportunities.

The owner must also establish proper procedures to prevent fires and provide approved fire extinguishers to put out small fires. Of course, large fires must be extinguished by professional fire fighters. As a safety precaution, many shops have regular fire drills so that all employees know their responsibilities during an emergency situation.

#### **Machine Modification**

The Autobend 7 Gauging System was designed to meet a wide range of customer needs. If the owner feels that the machine needs to be modified in any way to meet the special needs of the shop, Hurco recommends that the owner call Hurco Technical Support or an authorized Hurco distributor for modification assistance and a written authorization to proceed.

If the owner modifies the machine in any way without Hurco's assistance and a written authorization, the machine warranty becomes invalid. In addition, such unauthorized modifications may cause safety hazards that may injure the operator and damage the machine. The owner is fully responsible for any accidents resulting from unauthorized modifications.

### Safety Hardware and Software

If the owner or an operator modifies the hardware or software by removing, altering, disabling, or tampering with any safety circuit, safety switch, or any safety operation and then continues to operate the machine with those modifications, such operation is extremely hazardous, a *foreseeable misuse* of the machine, and voids the Hurco warranty. If the owner or an operator finds that such modifications have been made, that person must immediately switch off the machine and prevent use of the machine until it has been repaired. The owner must then contact a Hurco service representative for assistance in restoring the machine to safe operation.

# Important

In many locales, machine hardware or software modification to override safety protections and continued operation of such a modified machine is illegal and punishable with a fine and/or imprisonment.

#### Installation

The owner is responsible for proper site preparation before the machine is installed as described in the Installation and Upgrade Manual. A Hurco Field Service Engineer or authorized distributor representative must install the machine in the prepared location. This location must not subject the machine to uncontrolled cabinet temperatures or unfavorable work environment conditions that could cause electronic component failure.

If the owner decides later to *move the press brake* from its installed location, Hurco recommends that the owner call Hurco for assistance. If this is not possible, Hurco recommends that the owner use a competent rigger with the necessary equipment to move the machine to the desired location.

#### Maintenance

The owner must be certain that the shop's press brake maintenance personnel are trained.



This machine must not be serviced, repaired, or maintained by unqualified and untrained personnel.

If at any time the operator or owner determines that the electrical cabinet must be opened, the power must be shut off to the machine before the doors are opened.

The only exception to this rule is when the machine is being serviced for electrical problems. Under those circumstances, only a competent electronics technician directed by Hurco Field Service should perform the work.

#### **Safety Signs**

Safety-related signs pertaining to the Hurco Autobend 7 Gauging System are affixed to appropriate system components. These signs are illustrated below. Customers may order replacements at no charge by contacting Hurco. Please have the serial number for the Autobend 7 Gauging System available when placing an order.



#### Figure 1-1. Warning Decal

A warning sign (Hurco Part No. 703-0006-049) must be affixed at the rear of the control console. It also appears on safety decals that must be affixed to specific areas on the Autobend components. The warning signs alert operators of the possibility of personal injury and damage to the press brake if they do not follow the described procedure.



#### Figure 1-2. Caution Tape

The yellow and black caution tape (Hurco Part No. 703-0003-009) must be applied across the top rear of the gauge carriage(s) and the gauge bar(s) alerting operators to a hazardous area.



## **Owner's Responsibilities (continued)**

Hurco ships safety-related decals like those illustrated below with each Autobend 7 Gauging System. It is important that these decals are affixed as illustrated below. They pertain to operator safety and must be affixed to the press brake as shown.

Customers may order replacements at no charge by contacting Hurco. Please have the Autobend serial number available when placing an order.



Figure 1-3. Warning and Danger Decals

# **Operators' Responsibilities**

To avoid serious personal injury, damage to the machine, and unproductive down-time, the operator must pay careful attention to safety precautions and proper maintenance of the machine. Press brake operation is often a dangerous task, so operators must stay alert and be aware of potential hazards. Operators must also follow the safety regulations of their shops.

## Training

All operators must be trained operators in order to operate an Autobend 7 Gauging System. The operators who are going to run the press brake must be trained by Hurco or a Hurco authorized distributor. Before attempting to operate the machine, the operator should study this manual and become familiar with the machine functions and safety features.

While studying the manual, the operator should make special note of the caution and warning messages in the manuals and all warning and instruction plates/decals on the press brake.

#### **Clothing and Other Apparel**

Operators should always wear eye protection and safety shoes while in the work area. Safety glasses with side shields are recommended. The operator should not wear items such as loose-fitting clothing, watches, necklaces, rings, and neckties that could become caught in the moving parts of the machine.

### **Personal Care**

Operators must follow established working practices and personal hygiene standards. As part of this effort, they must avoid frequent or prolonged skin contact with fluids and oils on the sheet metal. Some operators wear gloves or use a special hand cream to protect their hands from these chemicals. If operators get chemicals on their hands, they must wash their hands immediately upon leaving the machine and before taking a break. They must also change clothing that has become contaminated with fluids and oils.

For complete information about handling industrial chemicals used in machining, refer to the international Control of Substances Hazardous to Health (COSHH) materials from the chemical suppliers.

## **System Operation**

# Warning

When operating an Autobend 7 Gauging System, always follow these safety rules:

- Review all safety information and operating instructions the press • brake manufacturer provides before attempting any operation.
- Use proper point of operation safeguarding. •
- Use the press brake's *Emergency Stop circuits* to control ٠ emergency situations involving the press brake.
- Check the installation of the carriage arrestor bars before ٠ operating the system.
- Adjust the gauging system from the rear of the press brake. ٠
- When testing the Autobend 7 Gauging System, check the ram adjustment before stroking the press brake. Set the down limit switch as required per the press brake's manufacturer. Tooling must not bottom out before the ram reaches the low end of its stroke.
- Be sure that the gauge bar and flip fingers are correctly referenced to the press brake's tooling before attempting operation.
- Turn the operator control(s) to Off before attempting to adjust the system.
- Keep hands out of the point of operation and clear of the press ٠ brake's forming tools.
- ٠ Never reach across the press brake tooling to make any adjustment.
- Never attempt to make any adjustment to the system by reaching through the press brake point of operation.
- When testing and running the Autobend 7 Gauging System, never ٠ attempt to bend metal that requires tonnage beyond the capacity of the press brake or the tooling, whichever is less.
- Never operate a disassembled system. ٠
- Disconnect the external power source before attempting to connect ٠ or make adjustments within the power supply box or the Autobend power supply cabinet. Only qualified personnel should service this equipment.
- Before operating the system be sure that installers or operators will ٠ not be struck by the rapid movement of the gauge bar. Also make certain that nothing interferes with the gauge movement in either direction.

#### Note

This list does not include all of the possible hazards regarding the Autobend 7 Gauging System.

## **Part Dimensions and Fixturing**

Operators should never bend a part on the gauging system that is larger than the working surface of the press brake or juts out on any side beyond the edges of the press brake. If a part requires a range that is greater than the guarding allows, the work must be performed on another machine having the necessary work volume capability.

Operators must follow procedures for referencing the bending material before starting the machine. Remember that loose objects, such as wrenches and chuck keys, can become flying projectiles if not removed from the gauge bar before the machine is started. Operators should also be aware of protruding machine members (such as hoses, piping, ductwork) when working around the machine.

### **Travel Limits**

Safety *limit switches* provided for each system must not be removed or bypassed in order to obtain more travel or take short cuts. Serious damage to the machine and personal injury to the operator may result from such actions. It is also dangerous to bend a part that requires operation outside the limits of the machine. A larger press brake should be used for such a part.

#### Part Bending

Operators should always know the locations of the *Stop* button on the press brake and console. The operator must be very careful when working in the area of the gauge. To prevent injury, the gauge should be completely stopped before the operator attempts to make adjustments to a work piece or the gauging surface.

# Warning

When running programs, operators should always follow these rules:

- Never press the *Run* button without knowing exactly • what the machine will do!
- Never start the machine when the back gauge is in • contact with the work piece.
- Never stand in the rear inside area of the press brake • while the gauge is moving.
- Never leave the machine unattended.

The operator must work within reach of the Stop buttons and must be able to observe the operation of the gauge. If the operator is running a program and cannot reach a Stop button nor observe the gauge, that is considered unattended operation and is viewed as a foreseeable misuse of the machine.

#### **Subsystem Failure**

Maintenance personnel and trained operators need to understand the maintenance requirements and possible problems associated with the press brake subsystems. They can become familiar with the subsystem maintenance requirements by studying the press brake's Maintenance Manual and by attending a Hurco training class.

### **Electrical Systems**

Clean AC source power, as defined in the ANSI/NFPA 79 standard, is essential to the successful operation and continued reliability of the machine. Therefore, the gauging system must be properly connected to its power source as described in detail in the Installation and Upgrade Manual. The machine must be attached to a dedicated, fused, and isolated line with incoming power that matches the specified, factory-wired, power cabinet voltages, and current requirements of the system.

# Warning

If the machine is not properly connected to its power source, there may be noise on the line that will affect machine safety, performance, and the warranty. In addition, brown-out conditions may occur in the shop, and the electrical components may fail and require replacement.

Use these electrical safety guidelines before operating the Autobend Gauging System:

- 1. Always provide a clean source of electrical power with a separate dedicated incoming power line (hot, neutral and ground wire).
- This source must be free of inductive loads that might cause high-2. frequency noise. Ensure that this source is free from high/low voltage, spikes, surges, and noise.
- 3. The machine's electrical control systems are interconnected to terminate at the central point ground terminal located inside the Autobend power cabinet. This single point ground must be connected to the ground circuit of the electrical power source so that it provides only one conducting path (between the machine and the extension cord). This method of grounding prevents an unwanted ground loop that may appear.
- 4. Route all Autobend 7 Gauging System cables to prevent close contact (6" - 10", 150 mm. - 250 mm.) with any press brake control, voltage line, motor, or other noise-generating devices.

# **Electrical Systems (continued)**

# **Procedures for Handling Printed Circuit Boards**

Static charges are present at all times and in all environments. Damage to sensitive electronics occurs at lower voltage levels than people can sense. Static damage may cause total failure or degrade the circuits' performance and can eventually lead to intermittent or total failure. Prevent component damage by discharging static electricity to a ground. Follow the procedures below.

Before touching, adjusting, or removing a printed circuit board (PCB), wear a wrist strap grounded to the cabinet or enclosure ground point. If a grounding wrist strap is not available, touch a grounded point within the enclosure each time before touching a PCB or electronic assembly. An example of a grounding point is the metal cabinet's screws.



# Caution

Limit the direct handling of the PCB to reduce the chance of damage.

Keep the PCB in a protective bag until it is installed. Use static handling procedures before opening the bag and removing the circuit board. Return all replaced PCBs to the static protective bag.

5. Attach all system cables properly to the press brake's frame. Loop cables with excessive length. Use the extra large tie wraps and 3/8" self-tapping screws provided to attach the cables to the frame.

# **Fire Prevention and Fighting**

There are some obvious causes of fires that should be avoided in all shops:

- Storing or handling flammable materials near heat sources.
- Failing to keep the work area clear of debris such as shop cloths, cartons, and other shop supplies that could catch fire.

If a fire does occur, the operator must press the Stop button on the console and on the press brake and activate the factory fire alarm system to evacuate personnel who are not directly involved with extinguishing a small fire. Shop personnel may be able to put out small fires using extinguishers approved for the conditions in their shops. However if it is clear the fire is uncontrolled or too large for the shop extinguishers, professional fire fighters must be called after all shop personnel are evacuated.

If a fire has occurred and the shop personnel have extinguished it, it may still be wise to contact the fire department or fire prevention authorities for advice to be certain the fire has been completely extinguished and to help prevent future fires. Fire extinguishers should be tested for proper operation at least three times a year by a trained and certified inspector.

## **Additional Safety Information**

For additional safety information Hurco recommends the following sources:

- National Safety Council 444 N. Michigan Avenue Chicago, Illinois 60611
- 2. State, provincial and local safety codes
- 3. Loss prevention department of a worker's compensation carrier
- 4. Manufacturer of the press brake

Autobend 7

# **Ordering Replacement Parts**

Hurco maintains a large inventory of service spare parts. The Parts Order Processing personnel are thoroughly trained to handle all requests for replacement parts and can also answer questions concerning the status of an existing order and shipping information.

Orders for parts may be placed by contacting the appropriate phone or fax number listed at the beginning of this manual, or by sending a letter with a purchase order to:

Hurco Manufacturing Company

Parts Order Processing

One Technology Way

P.O. Box 68180

#### Indianapolis, IN 46268-0180

Explicit information is required in order to process a request for parts and is detailed below:

1. The serial number of the machine. It is located on the door of the power cabinet's data plate.

Record the serial number for reference:

- 2. The customer's company name and complete address.
- 3. The caller's name and telephone number.
- 4. The customer's complete shipping address including the name and department of the person to receive the part. Also provide any special shipping instructions, including the desired mode of shipment (i.e., Air Express, UPS Blue, Standard UPS, etc.)
- 5. The customer's complete address to which invoices are to be mailed.
- 6. The customer's purchase order number, even if the machine is under warranty.
- 7. A brief, accurate description of the problem and its specific symptom(s).
- 8. The Hurco part number, part name or description, and quantity (number of parts). Also state the source of information, such as the

manual title and p part, etc.

#### Note

When returning a part to Hurco, please fill out the "Return Authorization Tag" sent to you and ship the part to Hurco in the original container when possible.

The customer should order and receive repair parts first and get the machine running. Once the machine is repaired, then the defective parts can be returned.

manual title and page number, the part number found on an old

# **Parts List**

This parts list is intended for use as an aid in the identification, requisition, and issuance of parts for the Hurco Autobend 7. Use only the part numbers specified within this manual for replacement parts. To locate a part number, follow these steps:

- 1. Identify the assembly that contains the component part from the "Contents" section below.
- 2. Refer to the page that illustrates the assembly breakdown. The drawings appear in the order in which they are listed in the "Contents" section.
- 3. Locate the component part and its item number on the illustration, then refer to the item number within the part listing to determine its description and the Hurco part number.

# Contents

<b>Description</b>	Drawing Number	<u># of Pages</u>
Power Cabinet		
Assembly, Power Cabinet	001-2005-001/002/004	4 2
Copley 300 Series DC Servo Amplifier	402-5001-053/063	1
Transformer, AB7 43 VAC, 23 AMP	413-0003-137	1
PCB, Main Control Board	415-0124-500	1
Schematic, Main Control Board	413-0124-006	4
PCB Assembly, Motion Module	415-0260-901/902	4
Schematic, AB7 Motion Module PCB	413-0260-001	3
PCB Assembly, Relay	415-0228-905	3
Harness, 10-Pin Ribbon	423-0116-001/003/004	4 1
Harness, Console/Power Cabinet	423-0200-001/004	1
Harness, Servo Amp IF	423-0201-001	1
Harness, Servo Amp Power IF	423-0201-002	1
Harness, Mainboard IF	423-0201-004	1
Harness, AC Input	423-0202-002	1
Harness, DC Output	423-0202-003	1
Harness, HV-2 Supply	423-0202-018	1
Harness, AB7 Relay I/O	423-0203-001	1
Harness, RS-232	423-0205-001	1
Label, Power Cabinet	703-0003-104	1

<b>Description</b>	Drawing Number #	of Pages
Console		
Assembly, STD Console	001-2002-001	2
Panel, Membrane Switch/Display	405-3001-026	2
PCB, Console Interface	415-0128-905	2
Monitor, 9" Amber Video Display	425-0001-016	1
Backgauge		
Assembly, Backgauge, S6/S8 (Released '96	) 001-2003-009	2
Assembly, Backgauge, S6/S8	001-2003-001	2
Assembly, Backgauge, S7	001-2003-002	2
Assembly, Backgauge, LP11	001-2010-005	2
Assembly, Backgauge, LP11-54	001-2010-004	2
Assembly, Backgauge, LP11-12	001-2010-006	2
Assembly, Backgauge, LP21	001-2010-007	2
Assembly, LP21 Rear Cover Kit	001-2010-008/009/010	1
Harness, X Axis IF	423-0201-005/006/007/02	29 1
Harness, Internal Gauge S6/S7/S8	423-0204-001	1
R-Axis		
Assembly, R-Axis LP11	001-1705-008	2
Assembly, R-Axis LP11	001-1705-013/017	3
Assembly, R-Axis S6/S8	001-1705-006/007	2
Assembly, R-Axis S6/S8	001-1705-003/005	2
Assembly, R-Axis S7	001-1705-004	2
Assembly, R-Axis LP21	001-1705-018/019/020/02	21 4
Assembly, R-Axis LP21	001-1705-010 thru 016	4
Harness, R-Axis IF	423-0201-018/019/020/0	32 1
Harness, R-Axis Internal	423-1900-005/007	1
Harness, R-Axis IF, LP11	423-0201-035	1
Y-Axis		
Assembly, MTE EC728 w/R9000 Enc.	001-1409-003	1
Assembly, LVD/JS DC Drive Train	001-1529-001	1
Assembly, MTE	001-1909-007	1
Assembly, Scale - Standard 14"	001-2004-001	1
Assembly, Scale - Standard 20"	001-2004-002	1

Description	Drawing Number	# of Pages
Y-Axis (continued)		
Assembly, Scale - Standard 30"	001-2004-003	1
Ass'y., Scl Stnd. 14" Cin. Bed Ref. Opt.	001-2004-004	1
Assembly, Promecam 400 Drive	001-2006-001	1
Assembly, Promecam Drive	001-2006-002	1
Assembly, Amada Drive	001-2006-003	1
Assembly, Adira 2-Axis Option	001-2006-004	2
Assembly, Adira Drive	001-2006-005	1
Assembly, Komatsu PHS	001-2006-006	1
Assembly, 2 Axis Betenbender	001-2006-007	1
Assembly, Guifil-PE	001-2006-008/009	1
Assembly, Hurco Press Brake Y-Axis	001-2006-011	2
Assembly, Jog Interface	001-2007-005	1
Assembly, Cincinnati FM 2-Axis Hydraulic	001-2012-007	1
Interface Board, Cincinnati FM	415-0225-001/901	2
Harness, Y Axis IF	423-0201-011/012	1
Harness, M-Stop IF	423-0201-013/014	1
Harness, Jog Interface	423-0201-015	1
Harness, Cincinnati FM Scale IF	423-0201-016	1
Harness, Cincinnati FM 2-Axis IF	423-0201-017	1
Harness, Cincinnati FM 24 VDC Power	423-0202-006	1
Harness, Cincinnati FM Relay I/O	423-0203-002	1
Bracket, M-Stop Lg DC Loire-Safe Motor	801-0849-001	1
Bracket, Y-Axis Upacting LS Mount	801-2002-002	1
Bracket, Mechanical Stop Option	901-0120-001	1
Calibration Assembly	001-2007-006	2
XL to 8M Pulley Adapter	801-0907-002	1
HTD Pulley	208-0005-006	1

#### **Description**

Control Upgrades Backgauge, S5 Harness, Motor/Tach Encoder Adaptor Harness, AB Encoder Adaptor Harness, AB Encoder Adaptor Harness AB Encoder Adaptor Harness AB Bracket, S4 Limit Switch Bracket, S5 RH Limit Switch Bracket, S5 LH Limit Switch Actuator, S5 Limit Switch

#### Miscellaneous

LP Vertical Supports Stock Support Assembly, Pivot Finger Adjust Assembly, Vertical Support Assembly, Gauge Block/Screw Assembly, Vertical Support Assembly, Guide Assembly, Retract at Pinchpoi Control Arm 32" Gauge Bar, S6, S7, R-Axis Gauge Bar, S8 Assembly, Adjustable Leg

	Drawing Number	# of Pages
	001-1013-001 thru 004	3
	423-0047-001	1
B7 to AB	423-0202-007	1
87 to AB5	423-0202-008	1
5	423-0202-009	1
4	423-0202-010	1
	801-0803-002	1
	801-0803-003	1
	801-0803-004	1
	801-0854-002	1
	001-1034-003/004	1
	001-1146-001	1
table	001-1425-004	1
	001-1452-001 thru 004	1
N	001-1479-999	1
	001-1486-001 thru 006	1
	001-1496-001	1
int	001-1529-003	1
	801-0616-002/003/004	1
	801-0910-001 thru 025	1
	801-0910-026 thru 039	1
	901-0022-004	1

Autobend 7



406-200	5–030	WIRE, '	18 AWG GREE	N/YELLO	w				63
110-0066	5-011	LOCKW	ASHER, MG E	XT.					62
101-5008	5-006 4-015	SHCS,	M6 X 20 LG		14/4 41				61
406-700	1-017	DING T	INCLE 14/1	AWC A	A DILLE	,			50
406-500	1-003	TIEWRA	P. SMALL		0 0000				58
406-500	1-012	BARLO	CK TIEMOUNT						57
703-000	3–104	LABEL,	AB7 POWER	CABINE					56
703–100	I-129	GENER.	al informati	on tag					55
423-020	1-002	HARNE	ss, ab7 ser	VO AMP	IF				54
703-100	5-329	LABEL,	WARNING HA	ZARDOU	S VOLTAGE				53
110-5001	-004	WASHE	R, FLAT MG						52
413-000	3-1.37	TRANS	FORMER ART	43VAC					50
				-01110					49
129-000	I-001	CUP H	OOK, SELF ST	TICKING					48
708-000	4-001	STRAP	STATIC CON	TROL WE	IST				47
703-000	4-014	LABEL	CAUTION-HI	GH VOLT	AGE				46
406-700	1–037	QUICK	CONNECT, 1/	'4" FEM/	LE 14/16G/	۹.			45
406-700	1-031	RING T	ONGUE, #10	14/16GA					44
406-200	3-020	WIRE,	4GA BLUE/W	HITE TW	STED				43
423-020	2-003	HARNE	SS. AB7 AC	INPUT					42
415-022	905	PCB. A	B7 RELAY B	DARD					40
108-500	2-002	BHSCS	N4 X 07 P	X 10 L	G				39
801-200	2-003	BRACK	et, ab7 ser	VO AMP	NOUNT				38
408-800	1-009	HOLE F	LUG, .187 D	A HOLE					37
402-500	1-062	SERVO	AMP, COPEL	Y 306A					36
402-500	1-063	SERVO	AMP, COPEL	Y 303					35
110-500	-001 S-004	WASHE	R, FLAT MJ						34
101-5006	3-013	SHCS.	M3 X 0.5 P	X 35 LG					32
423-020	1-001	HARNE	55, AB7 SER	VO ANP	IF				31
406-096	1-026	COVER	POWER ENT	ry Modi	ILE				30
409-200	2–002	MODUL	e, power en	try iec					29
408-750	1-049	RETAIN	ING CLAMP, I	EC PLUG					28
406-092	1-011	PLUG,	IEC 320 STR	AIGHT					27
408-800	1_003	HOLE I	NJX U.3 P			0975			20
408-800	1-049	HOLE	LUG. 1.093-	1.125 DL	A HOLE. H	EYCO D	P1093		23
408-800	1-008	HOLE	LUG, HEYCO	DP1750					23
409-200	1-049	FUSE (	RAWER, 2 P	OLE 5 X	20MN				22
409-100	1-235	FUSE,	5 X 20MM 8/	AMP TIM	E DELAY				21
409-100	-234	FUSE,	5 X 20MN 4/	AMP TIM	DELAY				20
801-200	1-004	ENCLO	SURE, AB7 P	OWER CA	BINET LVD	/OEM			19
801-200	0003	ENGLO:	SURE, AB7 P	DWER CA	BINET STD.				18
408-800	1-045	COVER	SCREW RH1						16
408-800	1-044	WASHE	R, SCREW CO	VER RHI	vio				15
101-5021	-003	SHCS,	M4 X 0.7 P	X 8 LG					14
408-750	6-008	CLANP	2" CAP. MC	UNT, HO	RIZONTAL				13
108-500	3-006	BHCS,	M5 X 0 8 P	X 16 LG					12
417-000	027	BRIDGE	RECTIFIER,	55 AMP					11
40/-000	2-077		IIUK, 12000	uFD 100	VDC				10
423-020	1-004	HARNE	SS. AR7 MAI		F				- <del>- 2</del>
423-020	3-001	HARNE	SS, AB7 REL	AY 1/0	-				+ 7
413-000	8-018	DC SU	PPLY, SWITCH	ING 65W	12/24V U	NIV INP	VT		6
415-026	0-002	PCB, A	B7 MOTION N	IODULE,	4 AXIS				5
415-026	0-001	PCB, A	B7 NOTION N	IODULE,	2 AXIS				4
415-0124	-500	PCB, A	B7 MAIN CO	NTROL B	DARD				3
406-750	0-012 5-004		ABLE MOUNT	, ADHES	VE BACK				
PART NU	WHER	MARRE	33, MB/ K3-	2.32 (TF)	DESCRIPTION				
				PARTS LE	n				
TREATMENT	EXCEPT A	NOTED							
$\sim$		HES ANCE		HUR	CO MANUFAI	CTURING	COMPAN	IY, INC	•
	DECIMAL	± 0300	•						
EATMENT	00 ,000	± 0150 ±.0050							
$\sim$	ANGULAR	±0'30"	DRAWN		CHECKED	DATE	APPRO	MED	DATE
ED ON	SHARP	EDGES	GLH 2	2-16-93		2-16-9	3 D/	AB SHT	3-1-93
	PROJE	CTION	1:2	רד	001 0	005	-001	1	******
ч <b>В</b> /	Ð	Ð	UNIT OF MEAS.	$ \mathbf{U} $	-2	005-	- 002	° 2	







	POSITION	-053	-063	DESCRIPTION/USAGE
	H1	107K, 1%	49.9K, 1%	TACH GAIN SETTING
	HZ	97.6K, 1%	12.1K, 1%	TACH GAIN SETTING
	H3	JUMPER	EMPTY	TACH GAIN SETTING
	H4	330PF, 20%	330PF, 20%	AMP LOOP RESPONSE COMPENSATION
	H5	499K, 1%	499K, 1%	AMP LOOP RESPONSE COMPENSATION
	H6	10NF, 20%	10NF, 20%	AMP LOOP RESPONSE COMPENSATION
	H7	10MEG, 5%	10MEG, 5%	AMP LOOP RESPONSE COMPENSATION
റെ	HB	10K, 5%	1.4 K 1%	CURRENT LIMIT SETTING
90	H9	JUMPER	JUMPER	REMOVE JUMPER TO INVERT ENABLE
	H10	EMPTY	EMPTY	AUX GAIN SETTING
	H11	49.9K, 1%	49.9K, 1%	REF GAIN SETTING

_			_	_		-	-	-	-
									ſ
									ſ
									ĺ
									ĺ
D	14308	Configuration-063,resistor(H8),was1.3Kohms	BGG	ŝ	DEO	ŝ			ĺ
С	14294	Configuration-063,resistor(H8),was10kohms	BGG	2. 2.	DEO	ŝ			ĺ
В	12688	ADDED 402-5001-063	КĿР	8 2 2	DAB	4 <u>/2</u> 0			ĺ
A	11884	ORIGINAL RELEASE	DAB	12/1			DDC	1/2	ĺ
REV	P.D.	REVISION DESCRIPTION	叡	DATE	w	DATE	<b>₩</b> ₽	DATE	ſ





ITH ASSEMBL' NT INK. IS USED IN L SOFTWARE RE	Y # ANI OCATIO V USING	) CUF N U2, G PEF	RRENT I , MARK MANEN	REV L BOAF T INK.	ETTER,	
) ASSY'S USIN E FOR PRODU ) BOARDS MUS	G -906 Iction / St Use	8 REV AND 1 -906	' D BOA FIELD S 3 REV I	ARDS ERVICI E BOA	ARE E. RDS.	
MAIN CONTRO	L	REF				1
ESCRIPTION			LOCA	TION(S)		ITEM
	IURCO MA INI		TURING ( OLIS, IN	COMPAN U.S.A.	Y, INC.	
	37 MA					
WN   DATE A.E.T.   18MAY9		B.	DATE 18MAY93		VED   1 .B.   2	DATE 21MAY93
IONE PC	<b>DRAWIN</b> 415	; )—0 <i>`</i>	124-5	500	SHT. 1 OF 1	EV. E
•	•					











ON MODULE		_				Т	34
ON MODULE		_				╈	33
1N4148		D1-	-D15			╡	32
DIODE) ARRA	Y	CR	N1.CRN2			+	31
CEN		E6-	-E14			+	30
		U1:	7			+	29
PCB		REI	-			+	28
F 50V .3 CEN		C6	-C14				27
50V .3 CEN.	-	C1.	C2.C3.C1	5.C16	3	$\neg$	26
50V .3 CEN.		C4	.C5,C17-	C20		╈	25
% 1/4W		R2	–R7			+	24
1/4W		R1				+	23
OK 5% 1/4W		RN	1.RN2			+	22
ORK01 uF.	50V	CN	1.CN2			$\neg$	
BV 1/4W		CR	1			+	20
401		Q1-	-Q6			+	19
-CH BI-DIR		CR	N3.CRN4				18
ISOLATED		CR	N1.CRN2			+	17
N MODULE CAL	JB	U3				+	16
N MODULE DEC	CODER	U1				+	15
ECEIVER		U10	0.011.012	2.014			14
N/ 16 BIT COU	JNTER	U6,	,07,08,0	9,U13	,		13
ERAL DRIVER		U1:	5,U16				12
2 BIT		U4,	,U5			╡	11
PIA		U2				T	10
PLCC		U1·		9			
/4 HT		E6-		8			
CEN		E1-		7			
W/LOCK & E	JECT	J9		6			
BX		P1				Τ	5
FRIC/LOC .1	SP.	J1C	)				4
. FRIC/LOC .1	SP.	J1,	J3,J5,J7				3
. FRIC/LOC .1	SP.	J2,	J4,J6,J8				2
N MODULE							1
CRIPTION			LOCAT	10N(S)			ITEM
PARTS LIST							
	irco Ma Ini	NUFA	Cturing C Polis, in 1	OMPAN U.S.A.	IY, INC	•	
RIPTION B ASSY, MOT	ION M		E				
		2	DATE			DA	TE FE DO 2
	DRAWING			901	SHT.	RE	срэ <u>3</u> V.
=1 OF MEAS. C	415	i–C	260 _	902 001	0F 1		E

-002









118 J9 17 J9 17 J9 18 J9 14 J9 13 J9 13 J9 13 J9 13 J9 13 J9 13 J9 13 J9 14 J9 19 J9 7 J9 MACHINE I,	/0
6 J9 5 J9 4 J9 -3 J9 2 J9 1 J9	
HURCO HURC	ONTROL LOGIC / MACHINE IO O MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
RIPTION HEMATIC, AB7 N DATE ICR 06-09-98 E ONE ONE CF MEAS C	7 MOTION MODULE PCB SHECKED DATE APPROVED DATE JDN 06-11-98 SHT. REV. 413-0260-001 0F 3 A



	AXIS	1 AND 2					
IURCO	HUR	CO MANUFA INDIANA	CTURING C POLIS, IN	COMPAI U.S.A.	NY, IN	с.	
RIPTION HEMA	TIC. AE	7 МОПО		JLE	РСВ		
IN JCR	DATE 06/09/98	CHECKED	DATE 06/11/98	APPRO	VED	DATE	•
e ONE of meas. EA	SIZE	drawing 413—0	260-0	001	SHT. 2 ⁰F 3	rev. A	•

3 REV.

⁰ 3

А

#### PROPRIETARY INFORMATION

INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.





4						
HURCO	HUR	CO MANUFA INDIANA	CTURING C POLIS, IN	OMPAI U.S.A.	NY, IN	С.
RIPTION HEMA	TIC, AB		N MODU	JLE	PCB	
MN JCR	DATE 06/09/98	CHECKED JDN	DATE 06/11/98	APPRO	VED	DATE
E ONE OF MEAS. EA	SIZE	413-0	260-0	)01	SHT. 3 0F 3	A



1. INSTALL DUMMY RELAYS (ITEMS 18 & 19) INTO RELAY SOCKETS PRIOR TO SOLDERING. SOCKETS HAVE FLOATING PIN DESIGN WHICH CAN CAUSE DAMAGE TO PCB IF THIS IS NOT FOLLOWED. REMOVE RELAYS PRIOR TO SHIPMENT.

2. MANUFACTURER SHALL MARK BOARD WITH LATEST

4. ALL SHUNTS (ITEM 8) ARE INSTALLED ACROSS PINS 1-2 OF JUMPERS (ITEM 7) AS DEFAULT, EXCEPT

(C) 5. REMOVE PIN 8 FROM CONNECTORS TB1, TB2, & TB20.

SISTOR, 1 K OHM 10W	R12	22
SISTOR, 4.7K 1/4W 5%	R1-R11	21
MINAL, PC QUICK FIT .187"	TB21	20
AY, 4PDT 24VDC COIL	К9	19
AY, DPDT 24VDC COIL	K1-K8,K10-K12	18
MINAL, 60A M5 PCB MNT.	TB12	17
DE, 1N4002	CR1-CR12	16
, SQR GREEN 2mA	DS1-DS11	15
GISTOR, 1.00K 1/4W 1%	R1-R11	14
JBBER, 120 OHM .1 uF	RC1-RC5	13
CKET, RELAY P&B KH SERIES	К9	12
CKET, RELAY P&B K10 SERIES	K1-8,K10-12	11
ADER, 6 POS. R.A. CLOSED	TB4-TB7	10
ADER, 5 POS. FEMALE	TB8-TB11	9
JNT, 2-POS 1/4 HT	JP1–JP9	8
ST, 3 POS .1 CEN	JP1–JP9	7
ADER, 20 PIN W/LOCK & EJECT	TB3	6
ADER, CLOSED STRAIGHT 12 POS.	TB14-TB19	5
ADER, SQ. PO. FRIC/LK 4-POS	TB13	4
ADER, 15-PIN 0.156" MTA	TB2	3
ADER, SQ. PO. FRIC/LK 10-POS	TB1,TB20	2
N PCB, AB7 RELAY		1
ITEM DESCRIPTION	LOCATION(S)	ITEM
PARTS LIST		
NTED: NNS HURCO HURCO MANUFAC INDIANAF	TURING COMPANY, INC. OLIS, IN U.S.A.	
DESCRIPTION DESCR		ATE
LUNARY LUALE LUCELAEU I		

	DRAWN	DATE	CHECKED	DATE	APPRO	ved	DATE
	AET	23FEB93	DAB	2/26/93	M	FC	2/26/93
<del>)</del>	SCALE 1=1 UNIT OF MEAS PC	C	415-02	228–9	05	SHT. 1 OF	REV.







100	, 10 0			•			
ITEM DESCRIPTION				ITEM			
		PARTS LI	ST				
TED: NS	)‡(U)7760	HUI	RCO MANUFAG INDIANAI	CTURING C POLIS, IN 1	OMPAN U.S.A.	Y, INC.	
00 50 50 05	DESCRIPTION	H	ARNESS,	10-PI	N RI	BBON	
S	DAB	DATE 07DEC91	CHECKED	DATE	APPRO <sup>V</sup>		DATE
: €	scale NONE unit of meas PC	B	drawing 423-0	—0 116—0 —0	01 03 04	сянт. 1 ог 1	REV.



- NOTE 2 -			
	т		
	0		
ut. 1" dia.	9		
NG GRIP, 1" NPT HUB .375 TO .500 DIA.	7		
< TUBE, 1" DIA. BLACK	6		
DRAIN WIRE	0		
18 GA. GREEN/YELLOW			
· _ · _ · _ · _ · _ · _ · _ · _ · _ · _	5 4		
N CABLE, SHIELDED 40 COND.	6 5 4 3		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032	6 5 4 3 2		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED	5 4 3 2 1		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION	5 4 3 2 1 гтем		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC.	о 5 4 3 2 1 ПТЕМ		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	о 5 4 3 2 1 ПТЕМ		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION	о 5 4 3 2 1 ПТЕМ		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION HARNESS, AB7 CONSOLE/POWER CABINE	о 5 4 3 2 1 лтем		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION HARNESS, AB7 CONSOLE/POWER CABINE DRAWN DATE CHECKED DATE APPROVED DA KLP 11/24/92 MFC 12/01/92 DAB 12,	о 5 4 3 2 1 ПТЕМ		
N CABLE, SHIELDED 40 COND. CONNECT, FEMALE .187 X .032 CTOR, FEMALE 40 PIN KEYED ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION HARNESS, AB7 CONSOLE/POWER CABINET DRAWN KLP 11/24/92 MFC 12/01/92 DAB 12, SCALE SIZE DRAWING NONE 423-0200-001 1	о 5 4 3 2 1 ПТЕМ		



## NOTES:

- 1. MARK HARNESS WITH PART NUMBER AND REVISION.
- 2. MARK CONNECTORS AS SHOWN.
- 3. SOLDER DRAIN OF ITEM 5 TO THE BLACK WIRE OF THE RED/BLACK PAIR. COVER WITH ITEM 3.

MOTION MODULE





5

-					
03	20 PC	406-08	301-135	TERMINAL, CRIMP 22-30 AWG	7
-	1 PC	406-08	301-134	CONNECTOR, 22 PIN .1C STRAIGHT	6
	36 IN	406-12	245-006	CABLE, 5 PAIR TWISTED 24 AWC	5
	2 IN	406-64	+81-005	SHRINK TUBE, 3/8" DIA. BLACK	4
	2 IN	406-64	481-002	SHRINK TUBE, 1/8" DIA. BLACK	3
	2 IN	406-1	687-010	WIRE, 24 AWG BLACK	2
Ø	1 PC	406-0	301-141	CRIMP TERMINAL HOUSING, 10 POS	. 1
-	۵۱۲.	PART	NUMBER	ITEM DESCRIPTION	тем
				PARIS LISI	
	SURFACE		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	HURCO MANUFACTURING COMPANY, INC.	
			EXCEPT AS NOTEL ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 2.0300 .00 7.0150	PRIS LISI DE HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
	HEAT THE		EXCEPT AS NOTEL ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 2.0300 .00 2.0150 000 2.0050 0000 2.0050	DE HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION HARNESS, AB7 SERVO AMP II	<del>.</del>
4 Pill. 80	SURFACE	TREATINENT	EXCEPT AS NOTE ALL DIMENSIONS IN INCHESS TOLERANCE DECIMAL .0 7.0150 000 7.0050 0000 7.0050 0000 7.0050 ANGULAR 7 0730' BREAK ALL SHARP EDGES	HURSO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION HARNESS, AB7 SERVO AMP II HARNESS, AB7 SERVO AMP II DAVIN DATE CHECKED DATE APPROVED KLP 11/16/92 MFC 12/01/92	DATE
4 / All. 90 20 20 20 20 20 20 20 20 20 20 20 20 20	HEAT THE		EXCEPT AS NOTE ALL DIMENSIONS IN INCHESS TOLERANCE DECIMAL .0 7.0150 000 7.0050 000 7.0050 ANGULAR 1 0730' BIREAK ALL SHAIR EDGES THIRD ANGLE RED EDGES	Description Hurco Manuffacturing company, inc.   Description HURCO MANUFfacturing company, inc.   Description HURCO MANUFfacturing company, inc.   Description HARNESS, AB7 SERVO AMP II   Description Date   HARNESS, AB7 SERVO AMP II   Description Date   HARNESS, AB7 SERVO AMP II   Source State   Source State   Source State   Source State	DATE REV.


POWER GND OUTPUT (+) OUTPUT (-) TO SERVO AMP P1 HIGH VOLTAGE	
NUMBER AND REVISION. WN. TO 2 INCHES OF ITEM ES OF ITEM 7.	
K TUBE, 1/8	7
18 AWG BLACK	6
ECTOR, FEMALE 4 POS. W/LATCHES	5
, 2 PAIR TWISTED 18 AWG	4
K TUBE, 3/8 DIA. BLACK	<u>ゝ</u>
$\frac{1}{2} \text{ MALE 5 DOSITION 26-14 AWC 2 DITCH}$	2 1
	ITEM
PARTS LIST	
HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION	
HARNESS, AB7 SERVO AMP POWER IF	ATE
KLP 11/24/92 MFC 12/01/92 DAB 12	/12/92
SCALE NONE     SIZE     DRAWING     SHT.     R       UNIT OF MEAS PC     C     423-0201-002     1 0F 1	Εν.



### MAIN BOARD J4

3. USE TIE WRAP (ITEM 8) AT ENDS OF ITEMS 1 & 2 FOR DRESS & STRAIN RELIEF.

	1"	406-64	481-002	SHRINK TUBING, 1/8" BLACK	10							
	3"	406-20	005-020	NIRE, 18 AWG BLACK								
	2	406-50	001-006	TIE-WRAP, MEDIUM	8							
	2	406-08	303–086	PLUG, MTA KEYING	7							
	2	406-08	803-946	COVER, CLOSED END STRAIN RELIEF	6							
	2	406-0	303-225	CONNECTOR, MTA 5-POS 18AWG	5							
	2	406-0	803-935	CONNECTOR, MTA 10-POS 24AWG	4							
	4"	406-6	481-005	HEATSHRINK, 3/8"	3							
	8"	406-1	245-006	CABLE, 5 TWISTED PR, 24 AWG	2							
	8"	406-12	244-007	CABLE, 3 TWISTED PR, 18 AWG								
	٩٢.	PART	NUMBER	ITEM DESCRIPTION	meni							
				PARTS LIST								
	SURFACE	TREATMENT	EXCEPT AS NOTED ALL DIMENSIONS									
	ſ	$\sim$	IN INCHES TOLERANCE	INDIANAPOLIS, IN U.S.A.								
			DECIMAL									
	HEAT THE	ATMENT	.00 7.0150	DESCRIPTION HARNESS ART MAIN BOARD IF								
	C	$\checkmark$	0000 2 0005 ANGULAR 2 0730	HARNESS, AD7 WAR DOARD IN								
			BREAK ALL SHARP EDGES	KLP 12/01/92 AET 12/10/92 DAB 02	/05/93							
	FIRST USE	d on	THIRD ANGLE	SCALE SIZE DRAWING SHT. R	EV.							
F	A	37		$  423 - 0201 - 004  _{0_1}  _{1}  $								
~												



SIZE

DRAWING



#### NOTES:

- 1. DIMENSIONS ARE STRAIGHT-LINE LENGTH, TOLERANCE  $\pm 1/2$ ".
- 2. MARK FINISHED PART WITH ASSEMBLY WITH HURCO PART NUMBER AND REVISION LETTER.



2

6 17"

QTY.

									6
									5
									4
	406-700	1–037	QUICK	CONNECT	, 1/4 <b>"</b> F	EMALE 14	/16 GA		3
	406-700	06-7001-031 RING TONGUE #10 14/18 GA							2
	406-200	3–020	WIRE,	14GA BLU	e/WHITE	TWISTED			1
	PART NU	MBER			ITEN	DESCRIPTION			ITEM
					PARTS LI	ST			
_		EXCEPT AS ALL DIME IN INC TOLER/ DECIMAL	s noted: NSIONS Hes NCE	) tureo	HUR	CO MANUFA INDIANA	CTURING COMPA POLIS, IN U.S.A.	NY, INC.	
E	ATMENT	.0	±.0300 ±.0150	DESCRIPTION					
-	$\checkmark$	.000	±.0050 ±.0005	HARNES	S, AB6	HV-2 S	SUPPLY		
	-	ANGULAR	± 0'30'	DRAWN BGG	DATE 24, JUNE98	JLW	DATE APPRO 25,JUNE98	VED	DATE
)	BEND 6			scale NONE unit of meas. EA	C	drawing 423-0	)202–018	SHT. 1 OF 1	A A

TO BRIDGE RECTIFIER

3





+	12	VDC
G١	۱D	
G١	۱D	
_	12	VDC
G١	۱D	
G١	۱D	
+	24	VDC
G١	۱D	
G١	۱D	
+	12	VDC

A KEYING	7
AWG BLACK	6
RINK, 1/8" DIA. BLACK	5
RINK, 3/8" DIA. BLACK	4
PAIR TWISTED 18 AWG	3
MTA-156 W/STRAIN RELIEF 10 POSITION	2
ACLE, MTA-156 10 POSITION 18 AWG	1
ITEM DESCRIPTION	ITEM
PARTS LIST	
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
RIPTION	
RNESS, AB7 DC OUTPUT	
n date checked date approved d. (LP 01/18/93 MFC 01/18/93 DAB 2.	ate 2JUL93
E SIZE DRAWING SHT. RI	EV.
OF MEAS ( 423-0202-003 OF 1	



#### NOTES:

CN

AB779

- 1. LABEL HARNESS WIT
- 2. MARK CONNECTORS

ΓH	PAR	T NUMBER AND REVISION.					B1	10"	406-156	0-005	CABLE	E, 28 GA. 2	20 COND	. FLAT G	REY RIBBO	N	2
A	S S⊢	IOWN.					-	2	406-080	6-020	CONN,	, 20-PIN R	BBON P	OLORIZED	) W/STRAII	N REL	1
								QTY.	PART NU	JMBER			ITEN	I DESCRIPTIO	N		ITEM
													PARTS LI	ST			
								SURFACE	TREATMENT	EXCEPT AS	6 NOTED:						
									$\sim$	ALL DIMEN	NSIONS HES	HURCO	HUR	CO MANUE	ACTURING C	OMPANY, IN	С.
								'	-	DECIMAL	ANCE		D	INDIA		0.0.4.	
								HEAT TRE	ATMENT	.00 =	±.0300 ±.0150	DESCRIPTION					
				_						: 0000. : 00000.	±.0050 ±.0005	HARNE	SS, AE	37 RE	LAY I/	0	
С	13431	ADDED DIM	DRA	6 27 JL 95	.W 2	8 95			Ŭ			DRAWN KIP	DATE 11/24/92	CHECKED MFC	DATE 12/01/92	APPROVED DAR	DATE 12/17/92
В	12609	WAS 20"	KLP	23 MF	-c 3		<sup>4</sup> 6 93	FIRST US	ED ON	THIRD A	ANGLE		SIZE	DRAWING	, ,		REV.
A	12495	RELEASE	KLP	11 24 MF 92		92 DB	12 17 92		R7				$ \mathbf{R} $	423-	0203-0	ר∪1 ° <u>ד</u>	
REV	P.I.N. ND.	REVISION DESCRIPTION	REV I BY		IK DA Y	TEAPPC BY	DATE DF	] ′			$\forall$	EA.		120	0200	<u> </u>	

	•••		
	1	1	
	2	2	
	3	3	
	4	4	
	5	5	
	6	6	
	7	7	
	8	8	
	9	9	
	10	10	
	11	11	
	12	12	
	13	13	
	14	14	
Y	15	15	
	16	16	
	17	17	
	18	18	
	19	19	
	20	20	

J9



21.41	LOTON,		"/ 31				2		
۱B۲	E, 10 C	ONDUCT	OR FLA	ΛT			1		
	ITEM DESCRIPTION ITEM								
		PARTS LIS	т						
NS	HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.								
50 50 05	DESCRIPTION HARNESS, AB7 RS-232								
30' S	drawn KLP	date 02/17/93	CHECKED MFC	DATE 02/18/93	APPRO	VED	DATE		
♪	scale NONE unit of meas PC	B	423-(	0205-0	001	SHT. 1 OF 1	REV.		



.

AIL WHITE POLYESTER.	
LAR OVER LAMINATE.	
BY VENDOR.	
O HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
N AB7 POWER CABINET	
DATE CHECKED DATE APPROVED DATE 4/5/93 BE 4/9/93	
EAS C 703-0003-104 0F 1	

## Console

## Console



1	406-09	61-027	CO/	ÆR, DB9	CUT-O	UT				46
REF	703–00	03–105	INS	ERT, LVD	LOGO					45
REF	703–00	03–106	INS	ERT, MNC	50					44
3	111–024	1-001	RIV	ET, AD—3	2-ABS	SCOVIL				43
2	109-502	24-012	PHN	15, M4 X	0.7 P	X 30 LG				42
2	110-012	9-009	SPA	CER, NYL	<u>_ON 1/-</u>	4" OD X	13/16"	LG		41
1	425-00	01–016	MON	NITOR, VI	DEO DIS	PLAY, 9"	AMBER	2		40
1	801-078	31-005	ENC	LOSURE,	AB7 C	DNSOLE L	VD OEN	<u> </u>		39
										38
-										37
3	110-006	32-004		KWASHER	<u>, #10  </u>	NIERNAL				36
3	108-500	003-003	BHC	<u>, м5 х</u>	0.8 P	X 10 LG				35
2	108-500	01-002	BHS	005, M3 /	X U.5 F	× 8 LG				34
-	405-30	01-026	KE T		ANEL,					33
1	101-502	21-003	SHU	2, M4 X	<u>U./ X</u>		050			32
	406-70	05 070			<u>, #0  </u>	B/ZZ GA	KED			31
1	400-20			L, IO GA						30
<u> </u>	115 50	37-001		EL, ADOL						29
2	406 50	01_024		<u>, , , , , , , , , , , , , , , , , , , </u>	A 10 1					20
	400-50	07-024		<u>к сыг, з</u> гот шир	$\frac{1}{2}$	DI D		SACK	ED	2/
	703-00	03-107	INC	ENT, HUR		v .				20
2	110_006	801-C0	100			YT TOOTH				23
1	415-012	28-905	PCE							23
	423-02	00-001		NESS A	37 CON			BINE	т	22
1	423-011		HAF	NESS VI		<u>50LL/1 0</u> PT			<u> </u>	21
4	108-50	12-001	RHS			V 8 IG				20
4	110-013	1-003	B04		S MSCE	<u>x u uo</u>				19
1	801-078	80-003	CO\	FR REAF	2	5 + 15				18
3	406-75	05-012	FLA	T CABLE			VE BAC	KED		17
1	703-00	06-049		EL. SAFE	TY SIG	WARNIN	G PL			16
1	703-00	03-084	LUB		LABEL	AB5C				15
2	101-500	07-012	SHC	S. M5 X	0.8 P	X 45 LG				14
										13
1	110-006	62-005	LOC	KWASHER	, 3/4"	INTERNA	L			12
1	404-70	01-002	LOC	K, KEYSV	NITCH C	HICAGO				11
1	411-000	01-013	T5.5	5 LAMP L	INIMAX	#01-903	-12			10
1	404-416	51-012	SWI	TCH LENS	CAP,	GREEN				9
1	404-92	00-001	SWI	TCH, DIFF	'USER,	WHITE				8
1	404–36	77–001	SWI	ТСН, Р/В	MOME	NTARY 2	MAKE			7
2	404-412	21-003	FRC	NT RING,	SWITCH	1				6
1	404-92	00-002	DIFF	FUSER, EX	KTENDE	)				5
1	404-416	51-011	LEN	S CAP, F	RED					4
1	404-36	77–002	SWI	тсн, р/в	MOME	NTARY 1	MAKE			3
1	703–00	03–070	INS	ERT, PB I	ENGLISH					2
1	703-00	03-062	INS	ERT, ENG	lish ke	YBOARD				1
aty.	PART NU	MBER			ITE	A DESCRIPTION				ITEM
RFACE	TREATMENT				PARTS L	ST				
		ALL DIMENSI	ON5	HURE	HUR	CO NANUFA	CTURING (	COMPA	NY, INC	c
(	$\sim$	TOLERANC	-		1	INDIANA	Polis, in	U.S.A.		
AT TRE	ATMENT	0±0. 0.±00.	100 50	DESCRIPTION						
~	、,	0.± 0000 0.± 0000	050	ASSY.	B7 ST	D CONSO	ЛЕ			
1	$\sim$	ANGULAR ±0 BREAK AL	-30"		DATE	CHECKED	DATE	APPRO		DATE
ST US	DON	SHARP EDG	63 E	SCALE	1/13/93 SIZE	DRAWING	1/13/93		SHT.	2/20/93 REV.
		PROJECTIO	<u>1</u>		Π	001_2	002-4	001	_1	
A		t=+ *	∜⊊	EĂ.	$\boldsymbol{\nu}$	JUI-2	002-0	501	<u>°2</u>	













3, C	ONN. SWITC	CH BOAR	õ					1
ш	em description				ITEM			
	PA	rts list						
DTED: DNS E	HURCO	HUI	rco Mai Ind	NUFAG	CTURING CO POLIS, IN U	DMPAN J.S.A.	Y, INC.	
150 050 005	DESCRIPTION	PCB	, CON	SOLI	E INTERF	ACE		
230" L ES	DRAWN A.E.T.	date 13JAN93	CHECKEI D.A.	B.	date 13JAN93	APPRO	VED	DATE
€	SCALE 1=1 UNIT OF MEAS PC	C	415	-0	128-9	05	ыт. 1 <sup>ог</sup> 2	REV.

LARM, M80	M80	8
40 PIN W/LOCK & EJECT	J5	7
TERMINAL		6
GA. WHITE		5
10 PIN, LOCK/EJECT	J3	4
12-PIN 1-ROW	J4	3
TOR, 6 PIN	J1,2	2
B, CONN. SWITCH BOARD		1
ITEM DESCRIPTION	LOCATION(S)	ITEM





# Backgauge

# Backgauge



2	110-50	01-005	FLAT WASHER, M8	46
2	101-50	10-003	SHCS, M8 X 1.25 P X 16 LG	45
4	111-02	41-001	RIVET, AD-32 SCOVIL	44
1	703-10	01-129	INFO & WARNING LABEL	43
1	001-14	30-001	ASSY. SHIPPING BOX	42
1	801-08	14-XXX	SHIM STOCK	41
2	801-20	08-001	BUMPER, GAUGE RUBBER	40
4	408-80	01-013	PLUG. HOLE HEYCO #DP-875	39
2	112-50	24-004	SPRING PIN, M6 DIA X 20 LG	38
4	101-50	10-007	SHCS, M8 X 1.25 P X 25 LG	37
2	901-00	80-001	ROD, GUIDE	36
1	404-52	02-012	LIMIT SWITCH	35
3	110-50	01-004	FLAT WASHER, M6	34
8	117-01	00-007	LDCKNUT, M6 X 1 P	33
4	103-51	65-021	SSS, M8 X 1.25 P X 10 LG. CONE PT.	32
2	801-07	03-001	BLOCK, BEARING	31
10	108-50	06-001	BHSCS, M10 X 1.5 P X 16 LG.	30
			•	29
4	112-50	26-001	SPRING PIN. M10 DIA X 20 LG	28
7	101-50	08-003	SHCS. M6 X 1.0 P X 12 LG	27
1	801-20	800-00	PLATE, S6 BOTTOM	26
4	101-00	03-002	SHCS. #8-32 X 3/8 LG	25
1	801-06	41-001	BRACKET, MOTOR MOUNTING	24
4	211-50	02-008	BUSHING. BALL SUPER 20-OPN	23
4	608-00	05-005	SEAL. BALL BUSHING OP STD 1.25	22
1	609-00	01-010	KEY, WOODRUFF, #4 3/32 X 5/8	21
2	801-20	12-001	SUPPORT, BALL SCREW BEARING	20
1	211-00	35-003	BEARING, DBL ROW BALL. #MRC-5202SBKZZ	19
2	113-00	08-025	RETAINING RING. BOW 1.375 X 1.526	18
1	208-00	02-039	PULLEY, GEAR BELT, BROWN #36XLM037	17
REF	416-02	48-058	ENCODER, 500 LINE DIFF.	16
1	423-02	04-001	HARNESS GAUGE INTERNAL AB7 S6,7,8	15
1	001-20	09-010	M.T.E. AB7, 500 LINE	14
1	801-20	14-008	COVER, S6 MOTOR	13
1	208-00	02-006	SPROCKET, 18XL037 1/2" DIA BORE	12
1	204-00	02-007	BELT, TIMING, 130 X L037	11
2	211-00	87–001	LOCKNUT, BEARING, AFBMA N-02	10
2	211-00	88-001	LOCKWASHER, BEARING, AFBM W-02	9
1	211-00	09-025	BEARING, BALL 6202-2RS	8
1	801-07	46-001	RING, STOP BUMPER	7
1	001-15	25-006	ASSY, NEW S6 BALL NUT/BALL SCREW	6
1	801-07	12-003	CARRIAGE, S6 GAUGE	5
1.6	703–00	03-009	TAPE, BLK/YEL STRIPED WARNING	4
1	801-07	06-002	FRAME, S6 MAIN	3
1	703–10	01–080	NAMEPLATE, S6	2
3	123-00	01-008	SCREW, PPH, TYPE B TAP #10 X 1/2 LG	1
oty.	PART NU	MBER	ITEM DESCRIPTION	ITEM
RFACE	REATMENT		PARTS LIST	
ſ	$\sim$	ALL DIMENSI IN INCHE TOLERANC DECIMAL	AURCO HURCO MANUFACTURING COMPANY, INC.	
AT TREA	TMENT	0 ±0	150 DESCRIPTION	
~		.000 ±.0	ASSEMBLY, S6 BACKGAUGE	
ſ	$\checkmark$	BREAK AL	UNITE CHECKED DATE APPROVED DATE	E .25
st use	DON	THIRD AND	LE SCALE SIZE DRAWING SHIT, REV.	
	AB7		$\Phi$	E





REF	416-02	48-058	ENC	ODER. 5	OO LINE	DIFF.			54
6.7#	712-00	01-002	BC	HEMICAL.	150#	CYL. INS	A-FOAM		53
7.5#	712-00	01-001	A C	HEMICAL.	150#	CYL. INST	A-FOAM		52
1	801-20	00-002	PLA	TE. AB7	S6/8 A	XIS IF M	DUNT		51
4	101-00	03-004	SHC	S, #8-3	2 X 5/	8 LG			50
1	208-00	02-006	SPF	OCKET.	18XL037	′ 1/2" D	IA BORE		49
1	801-07	16-001	BRA	CKET. M	DTOR M	DUNTING			48
1	406-50	01-006	TIE	WRAP. M	EDIUM				47
1	406-50	01-002	TIEV	RAP MOI	UNT. PA	NDUIT TA	158		46
2	110-00	46-007	LOC	KWASHER		. M6			45
2	117-50	13-001	NUT	HEX. N	16 X 1.	0 P			44
2	108-50	04-008	BHS	CS. M6	X 1.0 I	γX 25 L	G		43
4	111-02	41-001	RIVE	T, AD-3	2 SCOV	IL			42
1	703-10	01-129	INFO	. & WAR	NING L	BEL			41
1	001-14	30-001	ASS	Y, SHIPP	ING BO	(			40
1	801-19	02-001	BRA	CKET, LI	VIT SW.				39
4	211-50	02-008	BUS	HING, BA	LL SUP	ER 20-0	PN		38
4	608-00	05-005	SEA	L, BALL	BUSHIN	OP STO	) 1.25		37
4	103-51	65-021	SSS	, M8 X	1.25 P	X 10 LG	. CONE PT		36
2	801-07	03–001	BLC	CK, BEAF	RING				35
8	108-50	06-002	BHS	CS, M10	X 1.5	P X 20	LG.		34
4	112-50	26-001	SPF	ING PIN,	10 DIA	X 20 L	G		33
4	101-50	08–003	SHC	S, M6 X	1 P X	12 LG.			32
1	423-02	04-001	HAR	NESS GA	UGE IN	FERNAL A	B7 S6,7,8		31
1	801-08	14-XXX	SHI	I STOCK					30
1	001-15	25-001	ASS	Y, BALLN	UT/PRE	LOAD			29
4	108-50	05-004	BHS	ics, M8	X 1.25	P X 20	LG.		28
2	102-50	06-006	FHS	CS, M10	X 1.5	PX 25	LG.		27
1	801-07	12-001	CAF	RIAGE					26
9 FT	703–00	03–009	TAP	E, BLK/Y	'EL STR	PED WAR	NING		25
1	001-20	09–010	M.T.	E. AB7,	500 LIN	IE			24
1	801-07	06-001	FRA	ME					23
8	117-01	00-007	LOC	KNUT, M	6 X 1	P			22
1	408-80	01–040	PLU	G, HOLE	HEYC0	#DP-75	0		21
2	110-00	66-012	LOC	KWASHER	R, EXT.	M8			20
2	117-50	15-001	NUT	, HEX, M	18 X 1.	25 P			19
1	101-50	10-008	SHC	S, MB X	1.25 F	ν Χ 30 L	.G.		18
2	101-50	10-010	SHC	IS, MB X	1.25 F	УХ 40 L	.G.		17
1	204–00	02–007	BEL	T, TIMING	<b>, 13</b> 0 (	K LO37			16
1	609-00	01–010	KEY	, WOODR	UFF, #4	3/32 X	5/8		15
1	208-00	02-039	PUL	LEY, GEA	R BELT	, BROWN	#36XLM03	57	14
1	703-10	01-080	NAM	IEPLATE,	S6				13
4	123-00	01-008	SCF	EW, PPH	, TYPE	B TAP #	10 X 1/2	LG	12
1	113-00	01-013	RET	AINING R	ING, INT	BASIC,	1.375		11
1	211-00	35–003	BEA	RING, DB	L ROW	BALL, #N	IRC-52028	BKZZ	10
1	113-00	08-025	RET	AINING R	ING, BO	W 1.375	X 1.526		9
1	801-07	46-001	RIN	G, STOP	BUMPE	2			8
2	112-50	24-004	SPF	ING PIN,	6 DIA	X 20 LG			7
2	801-06	45-001	BRA	CKET, DF	RIVE BE	ARING			6
2	901-00	83-001	RO	, GUIDE					5
2	211-00	88-001	LOC	KWASHER	R, BEAR	NG, AFBN	1 W-02		4
2	211-00	87-001	LOC	KNUT, BE	ARING,	AFBMA N	I-02		3
1	211-00	09-025	BEA	RING, BA	LL 620	2–2RS			2
1	404-52	02-005	SWI	rch, limi	T, ZC-(	22255			1
OTY.	PART NU	MBER			TE .	DESCRIPTION			menu
REACE	REATHENT				PARTS L	81			
1	$\checkmark$	EXCEPT AS N ALL DIMENSI IN INCHE TOLERANC DECIMAL	IOTED IONS S XE	)1U(340	HU	RCO MANUFA INDIANA	CTURING COMP Polis, in U.S.	ANY, INC A.	•
EAT TREA	MENT	012 00. 012 00.	150	DESCRIPTION					
~		0.2 UUL 0.4 0006	105	ASSEMB	LY, S6	GAUGE			
r	$\checkmark$	BREAK AL	130" L	GLH	DATE	UWFIIC		NFIIS	DATE
rst usel	ON	THIRD AND	25 3LE	SCALE	SIZE	DRAWING	1-70-33 0.1	SHT.	2-20-93 REV.
AB7	/S6		∮	1=2 UNIT OF MEAS. EA.	D	001-2	2003-00	1 <sup>¶</sup> 2	E



OTY.	A PART NUMBER			ITEM DESCRIPTION							
					PARTS LI	ST					
		EXCEPT A ALL DIME IN INC TOLER DECIMAL	5 NOTED: INSIONS IHES ANCE ±.0308	<u>) ((() () () ()</u>	HU	RCO MANUFA INDIANAI	CTURING CI POLIS, IN I	OMPANY U.S.A.	, INC.		
EAT TREA	AT TREATMENT		±.0156	DESCRIPTION							
~		.0000 ±.0005	±.4005	ASSY, B	ACKGAL	JGE, S6	HORIZ.	AB7			
r	$\checkmark$	BREAK	ALL	GLH	DATE 1-26-93	J.WELLS	DATE 1-26-93	J.WE		те .25–93	
RST USEI	) on	THIRD	ANGLE	SCALE	SIZE	DRAWING		s	нт. (RE 2	<sup>v.</sup>	
S6/	AB7		Ø	UNIT OF MEAS. EA.	D	001-2	003-0	201	* 2	Ľ	



255	416-0248-0		56
27#	712-0001-0	2 D CHEMICAL 150# CVL INSTA-EDAM	55
·/#	712-0001-0	$1 \land C = C = C = C \land C \land C \land C \land C \land C \land C$	54
·37	712-0001-0	1 BUNDER CALLEE BURDER	51
1	757 4002 0		50
•	707-1001-0		51
•	703-1001-06	I NAMEFLATE, AUTOBEND	51
	804 0000 0		50
1	801-2000-0	I PLAIL, AB/ AXIS IF MUUNI S/	49
1	208-0002-00	I SPRUCKET, IBXLUS/ 1/2 DIA BORE	48
4		$\frac{1}{1} \text{ SHUS, } \frac{1}{7} \text{B} - 32 \times 5/8 \text{ LG}$	4/
1	801-0641-0	1 BRACKET, MOTOR MOUNTING	46
	707 1001 1		40
-	703-1001-12	I DIVET AD TO CONVIL	44
4	111-0241-0	1 RIVET, AU-32 SCUVIL	43
1	001-1430-0	1 ASSY, SHIPPING BOX	42
			41
2	112-5024-00	4 SPRING PIN, 6 DIA X 20 LG	40
2	801-0646-0	1 COVER, RIGHT GAUGE	39
4	112-5026-00	2 SPRING PIN, 10 DIA X 24 LG	38
1	001-2009-0	0 M.T.E. W/500 L ENCODER	37
2	101-5010-00	4 SHCS, M8 X 1.25 P X 18 LG.	36
8	117-0100-00	7 LOCKNUT, M6 DIN 985	35
2	901-0080-0	1 ROD, S7 GUIDE	34
1	801-0647-00	2 FRAME, S7 MAIN	33
1	204-0002-00	6 GEARBELT, 180XL037	32
24	123-0001-00	B SCREW, #10 X 1/2 TYPE B, PH TAP	31
4	108-5005-00	4 BHCS, MB X 1.25 P X 20 LG.	30
1	801-0746-0	1 RING, STOP BUMPER	29
1	211-0035-00	3 BEARING, DBL ROW BALL MRC 5202SBKZZ	28
1	404-5202-0	O SWITCH, PNL. MTG. CROSS ROLL/PLUNGER	27
1	605-5001-00	9 WASHER, BELLEVILLE #B1250-89	26
1	110-0062-00	9 LOCKWASHER, 9/16" INTERNAL	25
1	208-0002-03	9 PULLEY, GEARBELT #36XL037	24
1	609-0001-0	0 KEY, WOODRUFF, #4 3/32 X 5/8	23
			22
2	113-0008-02	5 RETAINING RING, BOW 1.375 X 1.526	21
2	801-0645-0	1 BRACKET, DRIVE BEARING	20
.83'	703-0003-0	9 TAPE, BLACK/YELLOW STRIPED WARNING	19
1	801-0735-00	4 SADDLE, S7	18
2	108-5003-00	4 BHSCS, M5 X 0.8 P X 12 LG.	17
1	801-0912-0	1 SWITCH ACTUATOR	16
1	102-5007-00	3 FHSCS, M12 X 1.75 P X 30 LG.	15
1	801-0813-X	X SHIM STOCK, S7 (SEE NOTE 1)	14
1	001-1525-00	2 ASSY, S7 BALL NUT/PRELOAD	13
1	801-0636-0	1 COVER, BALL SCREW	12
1	211-0009-02	5 BEARING. BALL #6202-2R5	11
2	011 00PP 0		
	211-0000-0	1 LOCKWASHER, BEARING #AFBM W-02	10
2	211-0087-0	1 LOCKWASHER, BEARING #AFBM W-02 1 LOCKNUT, BEARING #AFBMA N-02	10 9
2	211-0087-0	1 Lockwasher, bearing #afbm w-02 1 Locknut, bearing #afbma n-02	10 9 8
2	211-0088-0	1 LOCKWASHER, BEARING #AFBM W-02 1 LOCKNUT, BEARING #AFBMA N-02 1 SH5S, M8 X 1.25 P X 10 LG. CONE PT.	10 9 8 7
2 4 4	211-0088-0 211-0087-0 103-5165-0 608-0005-00	1     LOCKWASHER, BEARING #AFBM W-02       1     LOCKNUT, BEARING #AFBMA N-02       1     SHSS, M8 X 1.25 P X 10 LG. CONE PT.       5     SEAL, BALL BUSHING, OP STD 1.25 DIA.	10 9 8 7 6
2 4 4 4	211-0088-00 211-0087-00 103-5165-00 608-0005-00 211-5002-00	1     LOCKWASHER, BEARING #AFBM W-02       1     LOCKNUT, BEARING #AFBMA N-02       1     LOCKNUT, BEARING #AFBMA N-02       1     SH5S, M8 X 1.25 P X 10 LG. CONE PT.       5     SEAL, BALL BUSHING, OP STD 1.25 DIA.       8     BUSHING, BALL (SUPER 20 OPN)	10 9 8 7 6 5
2 4 4 4 2	211-0088-00 211-0087-00 103-5165-00 608-0005-00 211-5002-00 801-0703-00	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SH5S, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK	10 9 8 7 6 5 4
2 4 4 4 2 2	211-0088-00 211-0087-00 103-5165-02 608-0005-02 211-5002-02 801-0703-00 801-0735-00	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SH5S, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       FAD. SADDI F. S7	10 9 8 7 6 5 4 3
2 4 4 4 2 2 8	211-0088-00 211-0087-00 103-5165-00 608-0005-00 211-5002-00 801-0703-00 801-0735-00 108-5006-00	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.	10 9 8 7 6 5 4 3 2
2 4 4 2 2 8 1	211-0088-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0703-00 801-0735-00 108-5006-00 423-0204-00	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.         1       HARNESS, S7 GALIGE INTERNAL, AB7	10 9 8 7 6 5 4 3 2 1
2 4 4 2 2 8 1 00%	211-0085-00 211-0087-00 103-5165-00 608-0005-00 211-5002-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7	10 9 8 7 6 5 4 3 2 1
2 4 4 2 2 8 1 017.	211-0088-00 211-0087-00 103-5165-00 608-0005-00 211-5002-00 801-0703-00 801-0735-00 108-5006-00 423-0204-00 PMT NUMBER	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMMS LET	10 9 8 7 6 5 4 3 2 1 1
2 4 4 4 2 2 8 1 01Y.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REAMENT	1     LOCKWASHER, BEARING #AFBM W-02       1     LOCKNUT, BEARING #AFBMA N-02       1     LOCKNUT, BEARING #AFBMA N-02       1     SHSS, M8 X 1.25 P X 10 LG. CONE PT.       5     SEAL, BALL BUSHING, OP STD 1.25 DIA.       8     BUSHING, BALL (SUPER 20 OPN)       1     BEARING BLOCK       5     PAD, SADDLE S7       3     BHCS, M10 X 1.5 P X 25 LG.       1     HARNESS, S7 GAUGE INTERNAL, AB7       THEM DESCRIPTION       MARES LIST	10 9 8 7 6 5 4 3 2 1 1 mes
2 4 4 2 2 2 8 1 1 997.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0703-00 801-0703-00 801-0703-00 801-0703-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-5006-00 108-500 1000 108-500 1000 1000 1000 1000 1000 1000 1000	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M1D X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMMOS LIST         MARY SUBT         AS NOTED: LIST         INDIANAPOLIS, IN U.S.A.	10 9 8 7 6 5 4 3 2 1 mew
2 4 4 4 2 2 8 1 0077.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0735-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REATHENT THENT	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M1D X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMAGE LIST         MARE LIST         AS NOTED:         INDIANAPOLIS, IN U.S.A.	10 9 8 7 6 5 4 3 2 1 1 mew
2 4 4 2 2 8 1 0077.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0703-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REATMENT DECM	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M1D X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMMOS LIST         MARS LIST         AS NOTECE         ±00300       LOSCRIPTION         ±00300       ASSEMBLY, S7 GAUGE	10 9 8 7 6 5 4 3 2 1 1 mew
2 4 4 4 2 2 8 1 1 007Y.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REATMENT PALL 10 0000	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMERGION MANUFACTURING COMPANY, INC.         ASS MOTER:       HURCO MANUFACTURING COMPANY, INC.         MOTER:       HURCO MANUFACTURING COMPANY, INC.         MANNAPOLIS, IN U.S.A.       SEMBLY, S7 GAUGE         ASSEMBLY, S7 GAUGE       INTER APROVED         MALL       INTER APROVED	10 9 8 7 6 5 4 3 2 1 mea
2 4 4 2 2 8 1 00TY.	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REATMENT DECM ALL A 0 0 0 0 0 0 0 0 0 0 0 0 0	1       LOCKWASHER, BEARING #AFBM W-02         1       LOCKNUT, BEARING #AFBMA N-02         1       LOCKNUT, BEARING #AFBMA N-02         1       SHSS, M8 X 1.25 P X 10 LG. CONE PT.         5       SEAL, BALL BUSHING, OP STD 1.25 DIA.         8       BUSHING, BALL (SUPER 20 OPN)         1       BEARING BLOCK         5       PAD, SADDLE S7         3       BHCS, M10 X 1.5 P X 25 LG.         1       HARNESS, S7 GAUGE INTERNAL, AB7         IMMERS LIST         AS MOTED: MENSIONS ADDOB         ASS MOTED: MENSIONS ADDOB       HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.         ASSEMBLY, S7 GAUGE       DATE MARN         ASSEMBLY, S7 GAUGE       DATE J.L.W.         AMALE       SOLE         SOLE       SZE	10 9 8 7 6 5 5 4 3 2 1 mea 9 8 7 7 6 5 4 3 2 1 1 mea 9
2 4 4 2 2 8 1 007V. 4FACE 1 6FT USEE	211-0085-00 211-0087-00 103-5165-02 608-0005-00 211-5002-00 801-0735-00 801-0735-00 108-5006-00 423-0204-00 PART NUMBER REATMENT DECM ALL 10 000 PART NUMBER 10 000 PART NUMBER 10 000 000 PART NUMBER 10 000 000 000 000 000 000 000	1         LOCKWASHER, BEARING #AFBM W-02           1         LOCKNUT, BEARING #AFBMA N-02           1         LOCKNUT, BEARING #AFBMA N-02           1         SHSS, M8 X 1.25 P X 10 LG. CONE PT.           5         SEAL, BALL BUSHING, OP STD 1.25 DIA.           8         BUSHING, BALL (SUPER 20 OPN)           1         BEARING BLOCK           5         PAD, SADDLE S7           3         BHCS, M10 X 1.5 P X 25 LG.           1         HARNESS, S7 GAUGE INTERNAL, AB7           IMENGINA           INDEXCEMPTION           ASSEMBLY, S7 GAUGE           AMANCE           ASSEMBLY, S7 GAUGE           INDRAMAPOLIS, IN U.S.A.           INDRAMAPOLIS, IN U.S.A.           ADSCRIPTION           ASSEMBLY, S7 GAUGE           INTERNAL           INTERNAL           INTERNAL           INDRAMAPOLIS, IN U.S.A.           INDAMAPOLIS, IN U.S.A.           INDRAMAPOLIS           INTERNAL           INTERNAL           INDAMAPOLIS, IN U.S.A.           INTERNAL <t< td=""><td>л. 10 9 8 7 6 5 4 3 2 1 пем -25-933 У.</td></t<>	л. 10 9 8 7 6 5 4 3 2 1 пем -25-933 У.





											44
R	EF	416-024	8-058	ENCO	DER, 500 L						43
	1	001-202	4-001	ASSY,	LP11 FAST	TENER					42
,	4	101-501	1-008	SHCS,	M10 X 30	LG.					41
	1	208-000	2-006	SPRO	CKET, 18XL	037					40
	1	204-000	2-003	BELT,	TIMING 150	DXL037					39
_											38
											37
	1	001-152	5-005	ASSE	BLY, LP11	BALL S	CREW				36
1	2	801-201	2-001	SUPP	ORT, BEARI	NG					35
1	6	101-500	8-008	SHCS,	M6 X 25	LG.					34
	2	801-201	4-005	BLOC	, GAUGE S	TOP					33
	1	211-000	9-025	BEAR	NG. SINGLE	ROW B	ALL				32
	1	211-003	5-003	BEAR	NG, DOUBL	E ROW					31
	1	801-201	1-001	HOUS	NG. REAR	END					30
	2	113-000	8-025	RETA	NING RING.	BOW 1.	375 X 1.5	26			29
	1	801-201	0-001	PLATE	E. FRONT M	OUNTING	3				28
	2	102-500	5-009	FHCS.	M8 X 25	LG.	-				27
	1	801-200	9-002	CARR	AGE. BACK	GAUGE					26
	2	112-502	4-006	SPRIN	G PIN. M6	X 30 L	G.				25
	2	211-008	8-001	I OCK	NASHER, BE	ARING					24
-	- 2	211-008	7-001	LOCK	UT. BEARI	NG					23
	-	609-000	1-010	KEY.	WDODRUFF.	#4 3/3	32 X 5/8				22
	1	208-000	2-039		Y. GEARBE	T. 36X	1037				21
_	1	801-201	4-003	COVE	R MTF		2007				20
	1	801-201	4-004	COVE		ISING					19
_	1	801-201	3-002	BRAC	KET. LIMIT	SWITCH					18
	1	423-020	4-001	HARN	ESS ART I		CALICE				17
	1	001-200	9_010	ACCY	MTF W/	500 1					16
	2	101-500	8-004	SHCS	M6 X 16						15
	1	801-201	0-007	PLATE							14
	1	404-520	0-002	LIMIT		111110					12
1	5	110-500	1-004	FLAT	WACHER M	16					12
4	R R	108-500	4_002	BUCS	M6 V 12						11
	4	102-000	3_001	FUCS	48 - 32	LU. X 3/8	10				10
	T 4	707-100	5-400	I ADEI							
	 A	109-500	4-006	DUCC			RIGATION				
	7	211-110	-023	DITUS,		C15+92	0				7
	2	211-1100	5 003	RAIL,		<u>915702</u>	<u>.</u>				
4	۱ ۵	101-502	1-005	CLICE	L, 24 MAI						-
-	4	211-110	0000	DE ADI			16				
4	+	211-110	1 006	DLAR	NG, LINEAR		10				+
-	0	901 201	1-000	SUCS	- M4 A 10	<u> </u>					
_	4	101-201	4-007	CUVE	1, 24 GAU						1
~	+	101-301		3803,	MOAZJ		-				1
4	• ••		- IOLK			DADTE IT	- ac.ac.rer*11UN				1164
						PARIS LL	21				
	EXCEP ALI AS INSTI	PT AS NOTEDA L CORNERS HUST BE FOLLOWS FI	EXCEPT A ALL DIME IN IN TOLER DECIMAL	S NOTED+ INSIONS IHES ANCE	HUREP •	HUR	CO MANUFAI INDIANAI	CTURING ( Polis, in	OMPA U.S.A.	NY, ING	;
1	.050	YX 45°⊡R 'RMAX	0. .00	±0300 ±0150	DESCRIPTION				_		
	DUTS	(DE) 17 X 45* TIP	.000. .0006.	±.9050 ±.0605	ASSEMBL	LY, LP	11 BACI	KGAUGE	-		DATE
	.05*	R	ANGULAR	± (*3)′	J.L.V.	4-10-95	R.J.H.	4-12-95	J.L		5-1-95
	EXCEP	PT AS NOTED	THIRD	NGLE	SCALE	SIZE	DRAVING		<u> </u>	डमा. 1	REV.
	AS	HULT DE FOLLOVS ±,12		¢	UNIT OF MEAS EA	D	001-2	010–0	05	<u>"2</u>	D





R	EF	416-024	8-058	ENCO	DER, 500	L					47
	1	001-202	4-002	A66A	I P11_54	FASTEN	-p				46
	1	703-100		LABEL	LINEAR	RAIL LUE	RICATION				44
	1	801-2014	4-004	COVER	R, END HO	USING					43
4	ł	101-501	1-008	SHCS,	M10 X 30	0 LG.					42
-	2	101-5010	>-003	SHCS,	M8 X 16	LG.	. 50				41
	1	901-002	2-004 2-003	ASSEM	TIMING 15	OSTABLE	LEG				40
	1	208-000	2-006	SPRO	CKET, 18XL	_037					38
	1	001-152	5-004	ASSE	IBLY, LP11	-54 BA	LL SCREW				37
2	2	801-201	2–001	SUPP	DRT, BEAR	ING					36
_											35
1	5	101-500	8-008	SHCS	M6 X 25	16					33
2	2	801-201	4-005	BLOCK	GAUGE	STOP					32
	1	211-000	9-025	BEARI	NG, SINGLI	E ROW E	IALL				31
-	2	113-000	8-025	RETAI	NING RING	BOW 1.	375 X 1.5	26			30
	1	211-003	5-003	BEAR	NG, DOUBI						29
	•	001-201	1-001	HUUS	NG, REAR	END					20
	1	801-201	0-001	PLATE	FRONT N		3				26
2	2	102-500	6-006	FHCS,	M10 X 2	5 LG.					25
	1	801-200	9-002	CARR	AGE, BACH	GAUGE					24
-	2	112-502	4-006	SPRIN	G PIN, M6	X 30 L	G.				23
-	2	211-008	7-001	LOCK	NUT. BEAR	ING					21
	1	801-080	5-003	KEY,	SQUARE 3	/32 X 3	i/32 X 1 I	_G.			20
	1	208-000	2–039	PULLE	Y, GEARBI	ELT, <b>36</b> X	L037				19
	1	801-201	4-003	COVER	R, MTE						18
	1	801-201	5-002 4-001	BRACI	KEI, LIMII		GALICE				1/
	1	423-020	9-010	ASSY.	MTE. 500						15
2	2	101-500	8-004	SHCS,	M6 X 16	LG.					14
	1	801-201	0-002	PLATE	, MTE MO	UNTING					13
	1	404-520	2-012		SWITCH						12
1	ס ז	108-500	4_002	BHCS	WASHER, I	10					11
-	ţ	102-000	3-001	FHCS,	#8 - 32	X 3/8	LG.				9
4	ŧ	108-500	4-006	BHCS	M6 X 20	LG.					8
4	ţ	211-1100	)-023	RAIL,	LINEAR -	G15+82	OL				7
7	1	801-201	5-002	FRAM	E, 54" MA						6
2	2	211-1100	)-024	BFARI		R = GSR	15				4
1	6	101-502	1-006	SHCS,	M4 X 16	LG.					3
	1	801-201	4-002	COVER	R, 54" GAI	JGE					2
4	ŧ.	101-5010	0-007	SHCS,	M8 X 25	LG.					1
e	Γ <b>Υ.</b>	PART NJ	MBER			ITEI PARTS II	I DESCRIPTION				ITEM
1	EXCEP	PT AS NOTEDA L CORNERS	EXCEPT A	NOTED NSIONS	1101260	HUR	CO MANUFA	CTURING (	COMPA	NY, IN	6
	AS INSII .050	HUST BE FOLLOVS E: Y X 45° OR	IN INC TOLER DECIMAL	HES NCE ±0310	DESCRIPTION	•	IN DIANA	POLIS, IN	U.S.A.		
	.05' OUTS	R MAX	.00 .000 .000	±0150 ±.0050 ±.0005	ASSEMB	ILY, LP	11-54	BACKG	AUGI	Ε	
	.090	R 45° DR	ANGULAR	± (*3)/	JRAVN J.L.V.	DATE 8-3-94	RJH	DATE 8-15-94	APPRO JL	_W	DATE 9-14-94
	EXCEP /ELDU	NG TOLERANCE	PROJEC	NGLE	scale 1:2	<sup>szz</sup>	DRAVING	<u> </u>	<b>A</b>	SHT.	
	AS	FOLLOWS	Ð	Ð	UNIT OF MEAS EA	u	001-2	0-010	υ4	<u>"2</u>	Г





			42
RFF	416-0248-058	LENCODER 500 L	41
4	101_5011_008	SHOS MID X 30 LG	40
+	208-0002-005		20
4	208-0002-000		37
1	204-0002-003	BELT, IMMING ISOALOS7	30
4	001 1525 007		3/
- 2	801 2012 001	SUBBORT PEARING	30
2	101-2012-001		24
2	801-2014-005		22
4	211_0008_025	BEARING SINGE ROW BALL	22
1	211-0035-003		32
4	801 2011 001		20
1	117-0009-025	ROUSING, REAR END	30
2	801-2010-001	RETAINING RING, DOW 1.373 & 1.320	27
2	102-5005-000	FLATE, FRONT MOONTING	27
2	102-3003-009	CAPPIACE BACKCALICE	26
1	001-2009-002	CARRIAGE, BACKGAUGE	20
2	112-3024-000	SPRING FIN, MO A JU LG.	23
2	211-0088-001	LOCKWASHER, BEARING	24
2	211-008/-001	LUCKNUT, BEARING	23
1		RET, WUUDRUFF, #4 3/32 X 3/6	~~~
1	206-0002-039	PULLET, GEARBELT, 36XLU37	21
1	801-2014-003	COVER, MIE	20
1	801-2014-004	CUVER, END HUUSING	19
1	801-2013-002	BRACKET, LIMIT SWITCH	18
1	423-0204-001	HARNESS, AB/ INTERNAL GAUGE	1/
1	001-2009-010	ASSY, MIE 500 L	16
2	101-5008-004	SHCS, M6 X 16 LG.	15
1	801-2010-002	PLATE, MTE MOUNTING	14
1	404-5202-012		13
15	110-5001-004	FLAT WASHER, M6	12
13	108-5004-002	BHCS, M6 X 12 LG.	11
4	102-0003-001	FHCS, #8 - 32 X 3/8 LG.	10
1	/03-1005-409	LABEL, LINEAR RAIL LUBRICATION	9
4	108-5004-006	BHCS, M6 X 20 LG.	8
2	211-1100-032	RAIL, LINEAR - GIS+530L	
1	801-2015-004	FRAME, LP11-12 MAIN	6
10	101-5021-005	SHCS, M4 X 12 LG.	5
4	211-1100-024	BEARING, LINEAR - GSR15	4
16	101-5021-006	SHCS, M4 X 16 LG.	3
1	801-2014-010	CUVER, LP11-12 GAUGE	2
4	101-5010-007	SHCS, M8 X 25 LG.	1
<b>e</b> l 1.			TIEM
EXCER ALI AS	PT AS NOTED. EXCEPT ( L CORNERS ALL DO HUST BE IN DI FOLLOWS TOLE	AS NOTES AS NOTES HURCO HURCO MANUFACTURING COMPANY, INC HURCO INDIANAPOLIS, IN U.S.A. NACE	
.050	P X 45° ER .0 R MAX .00	±0300 DESCRIPTION	
		±1050 ASSEMBLY, LP11-12 BACKGAUGE	
.090	R ANGULAI	R ± (*3)* JRAVN DATE CHECKED DATE APPREVED I J.L.V. 8-28-96 R.J.H. 8-29-96 J.L.V.	MTE 9-3-96
EXCE		ANGLE SCALE SIZE DRAWING SHT. R	
AS			C



Q	ITY.	PART NJ	MBER			ITEI	1 DESCRIPTION				ITEM	
					_	PARTS LIST						
	EXCEF ALI AS	PT AS NOTED. EXCEPT AS NOT L CORNERS ALL DIMENSIO MUST BE IN INCHES FOLLOVS TOLERANCE EJ DECIMAL		s noted Insions Ches Ance		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.						
	.050 .05* DUTS	" X 45° DR R MAX IDE:	45° DR .0 AX .00 .000		JESCRIPTION ASSEMB	ILY, LP	11–12	BACKG	AUGE	Ξ		
	.090 .05*	" X 45° DR "R	ANGULAR	± (*3)/	J.L.V.	DATE 8-28-96	CHECKED R.J.H.	DATE 8-29-96	APPRO	VED 	DATE 9-3-96	
	EXCEF VELDO	PT AS NOTED NG TOLERANCE HUST DE FOLLOVS ±,12			scale 1:2 unit of neas EA	D	001-2	2010-0	06	<u>ક</u> ્યુ 2	C REV.	

NOTE: AFTER ACCURACY CHECK, DRILL .234 DIA THRU (2) PLACES FOR

INSERTION OF SPRING PIN. ITEM 25.



	2	205-000	2-033	COUP	LING, DFF	SET DIS	C-1/2" D	[A			2
	4	205-000	2-032	COUP	COUPLING, OFFSET HUB-1/2" DIA						1
G	ΠY.	PART NJ	IMBER			ITE	DESCRIPTION				ITEM
			-		-	PARTS L	IST				
	EXCEF ALL AS INSTR	PT AS NOTED: - Corners Hust be Follovs Ei	T AS NOTES EXCEPT AS NOTES COMPANY, INC COMPANY, INC COMPANY, INC UNT DE TREES TREES TREES TOUROS IN NO								C
	.050 .05" DUTS	* X 45* OR R MAX (DE)	.0 .00. 000.	±0300 ±0150 ±.0050	DESCRIPTION ASSY, L	.P21 E	ACK GA	UGE			
	.030	* X 45* DR R	ANGULAR	± (*3)/	J.L.V.	DATE 5-12-97	CHECKED R.J.H.	DATE 5-19-97	APPRO R.	Л <b>Н</b> .	DATE 5-19-97
	EXCEF MELDON AS	PT AS NOTED IG TOLETANCE AUST BE FOLLOVS ±,12			scale 1:2 unit of neas EA	D	001-2	010-0	07	5₩. 1 1 1 2	B
			-	- 1							

REF	416-0248-058	ENCLIDER, 500 L	40
1	801-2003-007	COVER, MTE BOTTOM	39
4	101-0003-002	SHCS, #8-32 X .38 LG	38
4	110-0001-002	WASHER, #8 FLAT	37
1	801-2003-006	COVER, MTE AND SWITCH	36
5	211-5004-006	BLOCK, PILLOV 1 1/4" DIA	35
5	801-2002-013	BRACKET, BALL NUT	34
4	101-5008-008	SHCS, M6 X 1.0 P X 25 LG	33
2	205-0002-028	COUPLING, 1/2" DIA W/ 1/8" KEYWAY	32
5	801-0805-004	KEY, 1/8" X 1/8" X 5/8" LG	31
1	423-0204-001	HARNESS, AB7 INTERNAL	30
1	001-2009-010	ASSY, AB7 500 LINE MTE	29
1	404-5202-012	LIMIT SWITCH, ROLLER	28
1	208-0002-006	SPROCKET, 18XL037	27
1	204-0002-005	TIMING BELT, 160XL037	26
1	801-0826-008	PULLEY, GEARBELT 30XL037, W/ 1/8" KEYWAY	25
2	206-0007-007	GEARBOX 1:1 RIGHT ANGLE	24
13	110-5001-004	WASHER, MG FLAT	23
10	108-5004-002	BHSCS, M6 X 1.0 P X 12 LG	22
2	801-2018-002	BLOCK, GUIDE ROD SUPPORT	21
2	801-2015-005	FRAME, SUPPORT	20
2	801-0025-006	ASSY, BALL NUT & BALL SCREW	19
5	801-2010-006	PLATE, CARRIAGE BOTTOM	18
2	211-0035-003	BEARING, DOUBLE ROW	17
2	211-0087-001	LOCKNUT, BEARING	16
2	211-0088-001	LOCKVASHER, BEARING	15
5	801-2010-005	PLATE, FRONT MOUNTING	14
5	801-0903-002	CAP, BEARING	13
16	101-5008-004	SHCS, NG X 1.0 P X 16 LG	12
2	801-2005-003	RDD, GUIDE	11
8	101-5007-006	SHCS, N5 X 0.8 P X 20 LG	10
5	509-9005-002	GREASE FITTING, 90 DEGREE	9
6	101-0007-006	SHCS, 3/8'-16 X 1 1/4" LG	8
2	801-2018-001	BLOCK, VERTICAL SUPPORT	7
2	801-2003-013	COVER, TOP GAUGE	6
16	101-5010-007	SHCS, M8 X 1.25 P X 25 LG	5
5	801-2010-007	PLATE, REAR BOTTOM	4
6	101-5008-014	SHCS, N6 X 1.0 P X 55 LG	3
2	205-0002-033	COUPLING, OFFSET DISC-1/2" DIA	5
4	205-0002-032	COUPLING, OFFSET HUB-1/2" DIA	1
QTY.	PART NUMBER	ITEN DESCRIPTION	ITEM
		PARTS LIST	
	· · · · · ·		





SECTION B-B FROM SHEET 1





SECTION D-D FROM SHEET 1

SECTION E-E FROM SHEET 1







		NO @	TE: S 1. S 1. S L 2. 00 00 00 00 00 00 00 00 00 00 00 00 00	EE P OR A ISTED 01-2 01-2 01-2 LACE (AG. (	ART NU LL OTHI IN BO 2010–00 2010–0 2010–0 2010–0 ALL FA (TO BE	MBER ( ER ITEM M. 28 LP 29 LP 10 LP 11 LP 12 LP VSTENEF USED (	201–201 IS NOT 21 – 2 21 – 3 21 – 1 21 – 4 21 – 4 21 – 4 21 – 4	0 MET 0 MET 5 MET 5 MET 0 MET E PLAS LL)	ER CONTROL OF CONTROL	GAU( GAU( GAU( GAU(	
	- 1	801-200	3-026	COVE	R. 4.0 M	CENTER	REAR CON	NECTIN	6		27
	-	801-202	0-012	SHAF	T, 4.0 ME	TER REA	R CONNEC	TING	-		26
	-	801-202	0-011	SHAF	T, 1.5 ME	ter rea	r <u>Conne</u> c	TING			25
	-	801-201	9-005	CHAN	NEL, 4.0	METERR	EAR CONN	IECTING			24
	-	801-201	9-004	CHAN	NEL, 1.5	METER R	EAR CONN	ECTING			23
•	-	801-200	3-027		R, 1.5 M	LEFT RE	AR CONNE				22
	_	801-201	3-012		R, 2.5 M	TER RF	AR CONNE	CTING			20
	-	801-202	0-003	SHAF	T, 2,5 ME	TER REA		TING			19
	4	117-010	0-006	LOCKNUT, M5 DIN 985							
	1	703-100	1-083	NAMEPLATE, VERTICAL							17
	1	801-200	3-008			REAR C		5			16
	-	801-200	3-001		R, 3 MF1	ER CENT	ER REAR	CONNEC	TING		13
	-	801-202	0-002	SHAF	T, 3 MET	ER REAR	CONNECT	ING			13
	1	801-202	20-001	SHAF	T, 2 MET	er rear	CONNECT	ING			12
1	2	801-200	7-002	BEAR	ING, REA	r Suppo	रा				11
i		110-500	1-003		ING, REAL	LAT	TI BEARIN	10			9
1	8	108-500	3-003	BHCS	, M5 X 0	8P X 10	LG.				8
	-	801-201	9-002	CHAN	NEL, 3 M	eter Re	ar conne	CTING			7
	1	801-201	9-001	CHAN	NEL, 2 M		AR CONNE	CTING			6
1	2	110-500	1-004	WASH	, 113 × 1. IER, MG F	LAT					4
1	8	108-500	4-004	BHCS	, M6 X 1	0P X 16	LG				3
	ı T	801-200	3-010	STRA	P, REAR						2
~		801-200	3-009	COVE	к, LEFT	REAR CE	INNECTING				1
ء -0		PARTINU	- OLX			PARTS L	ist				LIEM
	EXCEP ALL AS INSID .050 .05'	T AS NOTED: CORNERS UST BE FOLLOWS E: 7 X 45° OR R MAX DE:	EXCEPT A ALL DIME IN IN TOLER DECIMAL .0 .00 .000	S NOTED INSIONS CHES ANCE ±0300 ±0150 ±0150	HURCO DESCRIPTION ASSY		CO MANUFAI INDIANA	CTURING ( POLIS, IN	COMPA U.S.A.	NY, IN	C
	.030	" X 45" DR R	.0000 ANGULAR	±.0105 ± (*3)'	JRAVN	DATE 5-22-07		DATE	APPRO		DATE
-	EXCEP	t as noted	THIRD	ANGLE		SIZE	R.J.FI. DRAVING	<u> </u>	5.L	SHT.	REV.
	VELDU P AS	NUST BE FOLLOWS ±.12		¢	UNIT OF MEA	<u>d</u> D	001-2	010-01 -01-01 -01-01	1 2	<b>oF</b> <u>1</u>	C





K TUBE, 1/8" DIA. BLACK	13
K TUBE, 3/8" DIA. BLACK	12
18 AWG BLACK	11
24 AWG BLACK	10
NAL, MALE CRIMP 0.093 14-20 AWG	9
NAL, MALE CRIMP 0.093 22-24 AWG	8
STD. 0.093 9 POSITION	7
TONGUE, #6 26-22 AWG	6
, 1 PAIR TWISTED 16 AWG	5
CONNECT, .187 X .020 FEMALE 16-14 AWG	4
, 1 PAIR TWISTED 24 AWG	3
K TUBE, 3/16" DIA. BLACK	2
CONNECT, .187 X .020 FEMALE 26-24 AWG	1
ITEM DESCRIPTION	ITEM
PARTS LIST	
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION	
HARNESS, AB7 INTERNAL GAUGE S6/S7/	′S8
KLP 02/01/93 MFC 02/02/93 DAB 2/	ate /25/93
$\begin{array}{c c} \text{SCALE} & \text{SIZE} & \text{DRAWING} & \text{SHT. } \\ \text{NONE} & & & \\ \text{UNIT OF MEAS} & & & \\ \text{PC} & & & \\ \end{array} \begin{array}{c} \text{SIZE} & \text{DRAWING} & \text{SHT. } \\ \text{423-0204-001} & \frac{1}{\text{of}} \\ \text{of} \\ 1 \end{array} \end{array}$	EV.






REF	416-0248-0	058	ENCO	DER, 500 L	51
1	117-5013-0	001	NUT,	HEX M6 X 1.0 P	50
1	105-5046-0	007	HHCS	, M6 X 1.0 P X 20 LG	49
4	101-5008-0	006	SHCS	M6 X 1.0 X 20 LG	48
2	801-2002-0	018	BRAC	KET, BALL NUT	47
4	211-5004-0	004	PILLO	W BLOCK, 3/4 DIA TWIN FIXED	46
16	101-5021-0	006	SHCS	M4 X 0.7 P X 16 LG	45
2	801-2011-0	004	HOUS	NG, BEARING	44
2	211-0035-0	010	BEAR	NG, 12MM DOUBLE ROW ANGULAR CONTACT	43
2	211-0088-0	028	LOCK	NASHER #W01	42
2	211-0087-0	057	LOCK	NUT #NO1	41
1	801-2003-0	015	COVE	R, TOP	40
2	205-0007-0	800	GEAR	30X, 2:1 HELICAL REDUCTION	39
2	801-2010-0	800	PLATE	, GEAR BOX MOUNTING	38
14	101-5021-0	005	SHCS,	M4 X 0.7 P X 12 LG	37
1	801-0826-0	006	PULLE	TY, GEARBELT 36XL037-10MM BORE	36
6	101-5008-0	004	SHCS,	. M6 X 1.0 P X 16 LG	35
2	801-0903-0	003	CAP,	BEARING	34
4	101-5011-0	cut	SHCS	MIU X 1.5 P 20 LG	33
1	801-2003-0		LOVE	NTED FRONT	32
-	101-2009-		ASST,	MIEB, SUU L	31
4	101-3007-C	022			- 30
1	208-0002-0	008	PILLE		29
1	204-0002-0	005	RELT	160XL037 TIMING	20
2	110-5001-0	005	WASH	FR. FLAT M8	26
2	101-5010-0	005	SHCS	M8 X 1 25 P X 20 LG	25
8	110-5001-0	003	WASH	ER. FLAT M5	24
8	108-5003-0	003	BHSC	S. M5 X 0.8 P X 10 LG	23
1	801-2008-0	003	SPAC	ER, R-AXIS MOTOR	22
1	801-2003-0	017	COVE	R, MTEB REAR	21
2	110-0002-0	003	WASH	ER, 3/8 FLAT	20
2	101-0007-0	006	SHCS	3/8-16 X 1.25 LG	19
2	813-5079-0	001	SHAF	F, HORIZONTAL SUPPORT	18
2	801-0025-0	007	ASSY,	BALL SCREW/NUT	17
4	801-2005-0	004	ROD,	HARDENED VERTICAL GUIDE	16
1	801-2002-0	019	BRAC	KET, LP R-AXIS HARNESS	15
4	101-5011-0	008	SHCS	M10 X 1.5 P X 30 LG	14
4	801-2008-0	004	SPAC	ER, VERTICAL ROD	13
8	101-5010-0	009	SHCS,	M8 X 1 25 P X 35 LG	12
2	801-2018-0	003	BLOC	K, HORIZONTAL SUPPORT	11
2	101-0009-0	007	SHCS,	1/2-13 X 1.5 LG	10
2	801-0146-0	001	LOCK,		9
2	801-2010-0	009	PLATE	A BALL BUSHING MOUNTING	
1	201-2020-0		ONID		+
7	200-0010-0	014		LING, GUARDEN FLENBLE DRIVE SHAFT	
<u>/</u> 1	801-2020-0	005	CHAF		
1	618_0006_0	.001		AR 10MM CLAMP TYPE SHAFT	
<del>7</del> 1	404-5202-0	017	SWITC	H. LIMIT	
1	423-1900-0	007	HARN	ESS. R-AXIS INTERNAL	$+\frac{2}{1}$
OTY.	PART NUMBER			ITEM DESCRIPTION	ITEM
·				PARTS LIST	
EXCE	PT AS NOTED EXCE		NOTED.	HURCO MANUFACTURING COMPANY.	NC.
	NUST BE	IN INC	HES	INDIANAPOLES, IN U.S.A.	
		MAL	± 0300		
.05	R MAX .00	0 00	±.0150 ±.0050	ASSY, LP11 R-AXIS	
03	0" X 45" OR .00	GULAR	±.0005 ± 0'30'	DRAWN DATE CHECKED DATE APPROVED	DATE
	T AS NOTED-		NG F	J.L.W. 9-30-97 R.J.H. 11-17-97 R.J.H. SCALE SIZE DRAWING ISHT	11-17-97
WELD	ING TOLERANCE	PROJEC		1:2 D 001-1705-009	ЧD
<b>^</b>	S FOLLOWS	∋	Ø		



.51)



<del>,, ,, ,, ,, ,, ,, ,</del>





RE	F	416-024	8-058	ENCO	JER, 500	L					60
2	2	801-090	3-003	CAP,	BEARING						59
2		211-008	7–057	LOCK	NUT #N01						58
2	2	219-000	3-002	TRAN	TORQUE, 1	O MM I.E	).				57
2	2	211-008	5-028	LOCK	VASHER #						56
4	•	801-200	B-004	SPACE	R. VERTIC	AL ROD					54
ε	3	101-5010	>-009	SHCS,	M8 X 1.2	5 P X 3	5 LG				53
2	2	801-014	6-001	LOCK,	SHAFT						52
1		105-504	5-007	HHCS,	M6 X 1.0	) P X 20	) LG				51
2	2	801-2010	009	PLATE	, BALL BL	JSHING N					50
4	} •	101-5008	3-006	SHCS,	M6 X 1.0	X 20 L	.G				49
2	,	801-200	2-018	BRAC	ET. BALL	NUT					47
4	+	211-5004	4-004	PILLO	N BLOCK,	3/4 DIA	TWIN FIX	ED			46
1	6	101-502	1-006	SHCS,	M4 X 0.7	7 P X 16	5 LG				45
1		801-073	8-004	SHAF	r, long ti	ENSIONE	R PULLEY				44
1		117-501	6-001	HEX N	UT, M10	X 1.5 P					43
2	2	117-501	3-001	HEX N	UT, M6 X	1.0 P					42
1		801-073	8-008 8-003	SHAF	MO A 1.0			<u>۲</u>			40
2	2	801-008	1-003	PULLE	Y. 1.75 D	A BELT	TENSIONEI	२			39
4	ŀ	110-500	-002	WASH	ER, M4 FL	AT					38
4	ŀ	108-500	2-002	BHCS,	M4 X 0.	7 P X 10	) LG				37
2	2	108-500	5-002	BHCS,	M8 X 1.2	5 P X 1	2 LG				36
4	•	211-003	5-010	BEAR	NG, 12MM	DOUBLE	ROW ANG	SULAR CO	NTACT		35
2	, ,	110-500	0-002	WASH	R. MG FI		MOUNTIN	G			33
5	3	101-500	3-004	SHCS,	M6 X 1.0	P X 16	LG				32
1	1	404-520	2-012	SWTC	H, LIMIT						31
1		204-000	6-003	BELT,	322L050	TIMING					30
4	ŀ	101-5011	-005	SHCS,	M10 X 1.	5 P 20	LG				29
2	2	801-082	6-010	PULLE	Y, 24L050	TIMING	BELT				28
1		423-190	n-003	HARN		IS INTER					27
4	ŀ	108-500	1-004	BHCS,	M3 X 0.	5 P X 1	ZLG				25
1	1	801-200	3-017	COVER	R, MTEB R	EAR					24
1		001-200	9-011	ASSY,	MTEB 50	DL					23
4	ŀ	101-500	7-022	SHCS,	M5 X 0.	3 P X 16	S LG				22
1		801-080	5-003	KEY,	3/32" X 3	5/32" X	1" LG.				21
2	, ,	101-5010	0-005	SHCS.	M8 X 1.2	5 P X 2	20 I G				19
1	•	801-200	8-003	SPACE	R, R-AXI	S MOTOR	1				18
1		801-200	3–016	COVER	r, mteb fi	RONT					17
2	2	101-000	7-006	SHCS,	3/8-16	X 1.25 L	.G				16
2	2	110-000	800-1	WASH	ER, 3/8 N	OM. FLA	.T				15
4	ł	605-500	1-006	SPRIN	G WASHER	2, 1/2" l					14
-	-	801-002	5-007	ASSY	BALL SU			KU)			10
-	-	801-200	5-004	ROD.	HARDENED	VERTIC	AL GUIDE	(STANDA	RD)		11
4	ŀ	801-200	5-006	ROD,	HARDENED	VERTIC	AL GUIDE	(SHORT)	-		10
2	2	813-507	9-001	SHAF	r, horizoi	NTAL SU	PPORT				9
1		801-200	2-019	BRACI	KET, LP R	- AXIS H	ARNESS				8
1		801-200	3-024	COVER	R, LP R-A	XIS RIG	IT SIDE				7
1'	2	110-500		WASH		M5					5
1:	2	108-500	3-003	BHCS.	M5 X 0.8	3 P X 10	LG				4
1		801-200	3-025	COVER	R, LP R-A	XIS LEFT	SIDE				3
2	2	603-012	1-009	HAND	E, MON. I	KIPP					2
4	ŀ	101-5011	-008	SHCS,	M10 X 1.	5 P X 3	O LG				1
۹1 م	۳. 1 ح	PART NU	MBER			11E	A DESCRIPTION				ITEM
Ţ	EXCEN	PT AS NOTED: L CORNERS	EXCEPT AS	i noted: NSIONS	HURDE	HUR	CO MANUFA	CTURING C	OMPANY	r, INC	;
 	AS INSIDE	MUST BE FOLLOWS 3 0" X 45" OR	IN INC TOLER/ DECIMAL	HES ANCE ±.0300	DESCRIPTION	•	INDIANA	POLIS, IN	U.S.A.		
ļ	05" 00151 00151 030.	'R MAX DE. D"X 45" OR 'R	.00 .000 0000 ANCULAR	±,0150 ±.0050 ±.0005 ± 0'30'	ASSY, L		AXIS		APPROVE	<u> </u>	DATE
					J. L. W.	9/4/95	K.J.H.	8/8/86	K.J.H	<b>7.</b>	8/8/96
╉	excer	PT AS NOTED: I	THIRD /	NGLE I	SCALE	SIZE	DRAWING		١	ят <u>,</u> †	REV



## D 001-1705<sup>-013</sup>\_-017 BHT. REV.

# PROPRIETARY INFORMATION Information contained herein is the property of hurco manufacturing company, inc, no reproduction or disclosure of this information shall be made by the recipient to any other person or organization without the prior written consist of function manafacturing company, inc.



SECTION C-C(FROM SHEET 1) (SHOWN WITHOUT SIDE COVER, ITEM 7)













001-1705-006 - S6 001-1705-007 - S8

	FF	RFF	416-02	48-050	FN	CODER 3		DIFE				53					
Ľ	2	1	801-20	02-010	SWI	TCH DOG						52					
-	2		801-08	23-001	BR/	ACE. SHIP						51					
	2	1	204-00	02-006	ТІМ	IMING BELT, 180XL037											
	8	4	101-500	006-80	SHO	HCS, M6 X 1.0 P X 20 LG											
	2	1	208-00	02-001	BRO	)WN #30>	(LM037	GEAR B	ELT PUL	LEY.		48					
	2	1	609-00	01–010	#4	WOODRUF	F KEY,	3/32 >	(5/8			47					
	2	1	211-008	37-001	BE/	RING LO	CKNUT .	AFBMA I	N-02			46					
	2	1	211-008	38-001	BE A	RING LO	CKWASH	ER AFBI	M W-02			45					
	2	1	801-090	03-001	RET	AINER, B	ALL SC	REW				44					
	2	1	211-003	35-003	MR	C 5202SE	SKZZ DE	BL ROW	BALL BF	RG		43					
	2	1	113-000	08-025	RET	AIN. RIN	G, BOW	1.375 X	1.526			42					
1	0	5	101-502	21-006	SHO	<u>S, M4 X</u>	0.7 P	X 16 LC	;			41					
	<u>z</u>		801-090	25-001	BAL	L NUT A	DAPTER	BRKT.	PLATE			40					
Ľ	2	6	10-00	0 008		XWASHE	(, EXI.	M8	~			29					
<b>-</b> '	2		901-011	3-001	BR	CKET B				FR		30					
-	2		211_800	J-001 12-016	BAI	I NUT W	WIDER	S 5MM				36					
-	8	4	605-30	03-001		SPRING	5/8 X	11/32	X 1" IG			35					
-	8	4	115-500	$\frac{00}{00}$	SHS	S. 8MM	X 30MM	11/02				34					
	2		001-190	)9-003	ASS	SY. MTEB		•				33					
<u> </u>	2		901-011	2-002	SER		R COVE	ER				32					
	8	4	801-08	20-001	FIX.	TURE KEY	MACH	INE				31					
1	6	8	115-500	02-002	SHS	S, 8MM	DIA X 1	6MM				30					
	4	2	211–110	0-010	LIN	EAR BEAF	RING &	WAY AS	SY SR2	5		29					
	4	2	801-190	00-010	PL/	TE, R-A	XIS BEA	RING M	DUNTING			28					
2	28	14	101-500	006–80	SHO	CS, M6 X	1.0 P	X 20 L0	3			27					
5	6	28	110-500	01-005	WASHER, FLAT M8							-005 WASHER, FLAT M8					26
Ľ	20	10	101-501	0-005	SHCS, M8 X 1.25 P X 20 LG							25					
	2		901-011	0-002	VER	RTICAL SU	PPORT,	RIGHT				24					
	2		801-090	09-001	BAL	L SCREW	, .7872		17.5 LG	5MM		23					
	2		110-500	J1-014	WA:	SHER, MO	CARE					22					
	0	4					V 1 5 D	V 25 I	~			21					
-	2	1	408-75	01-007	JI 4	5, MIU /		X 25 L	.0			10					
-	4	2	110-006	37-009			2 9/16	INTERN	ΔΙ			18					
-	2		404-52	02-005	SWI	TCH. OMF	RON RO					17					
	<u>-</u> 6	3	110-004	6-007	LOC	KWASHEF	R. M6					16					
	8	4	108-50	04-001	вно	CS, M6 X	1.0 P	X 10 LG	;			15					
	2	1	801-190	02-001	BR/	ACKET, G	AUGE LI	MIT SWI	тсн			14					
3	0"	15"	408-01	71-040	CON	NDUIT, CO	RLOCK	1/4" Bl	K NYLO	N		13					
	2	1	101-502	21-004	SHO	CS, M4 X	0.7 P	X 10 LC	;			12					
	2	1	408-01	71–045	BR/	ACKET, EL	-FLEX	1/4" C	onduit i	MOUN	Т	11					
	2	1	901-011	0-001	VER	RTICAL SL	JPPORT,	LEFT				10					
	Z	1	408-01	71-044	CON	NECTOR,	1/4" S	STRAIGH	T EL-FL	EX		9					
	8	4	108-50	01-003	BHO	<u>cs, M3 X</u>	0.5 P	X 10 L0	3			8					
	2	1	901-011	4-003	CO/	/ER, R—A	XIS INT	ERNAL H	IARNESS	S END		7					
┝	2		423-19	00-007	HARNESS, AB20 R-AXIS S6 INTERNAL							6					
$\vdash^1$	4		108-50	1 003	BHCS, M5 X 0.8 P X 10 LG							5					
⊢	2			1-004	HORIZONTAL SUPPORT, R-AXIS							4					
┝	0 6	4	123-00	002 01-002	2 BHSCS, M8 X 1.25 P X 12 LG												
$\vdash$	2		901-011	4-002	COVER. HORIZONTAL SUPPORT FND							1					
L	-	оту.	PART NU	MBER	<u> </u>		ITE	M DESCRIPTION				ITEM					
0	11.						PARTS L	ST									
-0	07	-006															
-( -(	07	-006 SURFACE		EXCEPT AS N ALL DIMENSI IN INCHES TOLERANC	oted: ONS S	(\$19):{/ <b>•</b> (•)	HUR	CO MANUF INDIAN	ACTURING	CONPA U.S.A.	NY, IN	8					
	007	-006 SURFACE		EXCEPT AS N ALL DIMENSI IN INCHES TOLERANC DECIMAL .0 7.0	OTED: ONS E E 300	(\$19)3(# <u>(</u> *)	HUR	CO MANUF INDIAN	ACTURING IAPOLIS, IN	CONPA U.S.A	NY, IN						
		HEAT THE		EXCEPT AS N ALL DIMENSI IN INCHES TOLERANC DECIMAL .0 9.0 .000 9.0 .000 9.0	01ED: 0NS 5 2 300 150 050 005			NO MANUF INDIAN	ACTURING	COMPA U.S.A.	NY, IN						
				EXCEPT AS N ALL DIMENSI IN INCHE: TOLERANC DECIMAL .0 9.0 .000 9.0 .0000 9.0 ANGULAR 7 BREAK AL	OTED: DNS E 300 150 050 005 0730 L	DESCRIPTION ASSY, R	HUR - AXIS	S6/SE	ACTURING	COMPA U.S.A.	NY, IN 						
				EXCEPT AS N ALL DIMENSI IN INCHES TOLERANC DECIMAL .0 9.0 .000 9.0 .0000 9.0 ANGULAR 7 4 BREAK AL SHARP EDC	01ED: 0NS 5 2 300 150 050 050 005 0730 L 25 L	HURCO DESCRIPTION ASSY, R DRAWN JLW BCALE	HUB 	CO MANUF INDIAN S6/S8 CHECKED R.J.H. DRAWING	ACTURING IAPOLIB, IN	COMPA U.S.A.	NY, IN ED ISHT.	DATE REV.					
		-006 SURFACE		EXCEPT AS N ALL DIMENSI IN INCREASE DECIMAL .0 7.0 .000 9.0 .0000 9.0 ANGULAR 7 4 BREAK AL SHARP EDC THIRD ANG PROJECT	01ED: 0NS 5 5 5 5 5 5 5 5 5 5 5 5 5	HURSO DESCRIPTION ASSY, R DRAWN JLW SCALE 1=2		S6/S8 S6/S8 CHECKED R.J.H. DRAWING	ACTURING IAPOLE, IN BATE 3-25-96	COMPA U.S.A	ED SHT. 25	DATE REV.					

\*

REV DATE CHK DATE APPODATE DF

A 13656 REL REV 1164

REVISION DESCRIPTION

FI

SIZE ант. 2 ог\_2 DRANING 001-1705-006 -007 D

### PROPRIETARY INFORMATION INFORMATION CONTAINED HEREN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, NC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRICE WRITTEN CONSENT OF HURCD MANUFACTURING COMPANY, INC.



VIEW B-B









REF	416-02	48-050	ENC	CODER, 300 LINE DIFF.	57
1	801-20	02-010	SWI	TCH DOG, R-AXIS LIMIT	56
				•	55
					54
					53
1	801-08	23–001	BR/	ACE, SHIPPING	52
1	204-00	02-006	TIM	ING BELT, 180XL037	51
4	101-500	006–80	SHO	CS, M6 X 1.0 P X 20 LG	50
1	208-00	02-001	BRO	OWN #30XLM037 GEAR BELT PULLEY	49
1	609-00	01-010	#4	WOODRUFF KEY, 3/32 X 5/8	48
1	211-008	37-001	BF1	ARING LOCKNUT AFBMA N-UZ	4/
1	211-000	07 001			40
1	211_007	35-003	MR	C 5202SBK77 DBI ROW BALL BRC	44
1	11.3-000	18-025	RF	TAIN RING BOW 1.375 X 1.526	43
5	101-502	21-006	SHO	CS. M4 X 0.7 P X 16 LG	42
1	801-09	05-001	BAL	LL NUT ADAPTER BRKT, PLATE	41
6	110-006	36-012	LOC	CKWASHER, EXT. M8	40
6	101–501	800-0	SHO	CS, M8 X 1.25 P X 30 LG	39
1	901-011	3-001	BR/	ACKET, BALL NUT LOWER ADAPTER	38
1	211-800	02-016	BAI	LL NUT W/WIPERS, 5MM LEAD	37
4	605-30	03-001	DIE	SPRING, 5/8 X 11/32 X 1" LG	36
4	115-500	02-005	SHS	55, 8MM X 30MM	35
1	001-190	09-003	ASS	SY, MTEB	34
1	901-011	2-002	SEF	RVO MOTOR COVER	33
4	801-08	20-001	FIX	TURE KEY, MACHINE	32
2	115-500	002		SS, OMM DIA X IOMM	31
2	801-10	0-010 10-010		ATE R-AXIS BEARING MOUNTING	20
14	101-500	18-006	SHO	CS M6 X 1 0 P X 20 I G	28
28	110-500	0.00000000000000000000000000000000000	WAS	SHFR. FLAT M8	27
10	101-501	0-005	SHO	CS. M8 X 1.25 P X 20 LG	26
1	901-011	0-002	VEF	RTICAL SUPPORT, RIGHT	25
1	801-09	09-001	BAI	LL SCREW, .7872 DIA X 17.5 LG 5MM	24
1	110-500	01-014	WA	SHER, M6 CAR BODY	23
4	801-06	50-001	T—T	NUT	22
4	101-501	1-007	SHO	CS, M10 X 1.5 P X 25 LG	21
1	408-75	01-007	#14	IS JIFFY CLAMP	20
2	110-006	32-009	LOC	CKWASHER, 9/16 INTERNAL	19
1	404-52	02-005	SWI	IICH, OMRON ROLLER	18
3	100-004	+6-007		CRWASHER, MD	1/
4	901-100	04-001		ACKET CALLOE LIMIT SWITCH	15
1	408_01	71_040		NDUIT CORLOCK 1/4" BLK NYLON	14
1	101-502	21-004	SHO	CS. M4 X 0.7 P X 10 LG	13
<u>,</u> 1	408-01	71-045	BR	ACKET, FL-FLEX 1/4" CONDUIT MOUNT	12
1	901-011	0-001	VER	RTICAL SUPPORT, LEFT	11
1	408-01	71-044	CO	NNECTOR, 1/4" STRAIGHT EL-FLEX	10
				· · ·	9
4	108-50	01-003	BHO	CS, M3 X 0.5 P X 10 LG	8
1	901-011	4-003	C01	VER, R-AXIS INTERNAL HARNESS END	7
1	423-19	00-007	HA	RNESS, AB20 R-AXIS S6 INTERNAL	6
7	108-50	03-003	BHO	CS, M5 X 0.8 P X 10 LG	5
1	901-011	1-002	HOF	RIZONTAL SUPPORT, R-AXIS	4
4	108-50	05-002	BHS	SCS, M8 X 1.25 P X 12 LG	3
ō 1	001 014	4-002		VER HORIZONTAL SUBDORT END	2
1	SOI-OII	4-002			
003			<b>I</b>	PARTS LIST	
FACE		EXCEPT AS N ALL DIMENSI IN INCHES	OTED: ONS S	HURCO MANUFACTURING COMPANY, INC	
T TREA	TMENT	DECIMAL .0 1.0 .00 7.0	300 150		
~		.000 1.0 0000 1.0	060	ASSY, R-AXIS S6/S8	
(	$\sim$	ANGULAR 7 C	1830 L	DRAWN DATE CHECKED DATE APPROVED DA	TE
st usei	) ON	THIRD ANG	LE .	SCALE DRAWING	V.
S6	i/S8		Ð	$\frac{1-2}{1000} = 000 = 1003 \text{ m} = 1003  $	

DRANING 001-1705-003 -005 SIZE зят. 2 °<sup>е</sup>2 D

PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR Disclosure of this information bhall be made by the recipient to any other person or organization inthout the prior written consent of hurco manufacturing company, inc.



VIEW B-B





PFF	416-02	18-050	FN	CODER 3		DIFF				57
1	801-20	12-010	SWI	TCH DOC						56
·	201 200				,					55
										54
										53
1	801-082	23-001	BR/	ACE, SHIP	PING					52
1	204-00	02-006	TIM	ING BELT,	, 180XL	037				51
4	101-500	8-006	SHO	CS, M6 X	1.0 P	X 20 LG				50
1	208-00	02-001	BRO	)WN #30>	(LM037	GEAR BE	LT PUL	LEY		49
1	609-00	01–010	#4	WOODRUF	F KEY,	3/32 X	5/8			48
1	211-008	37-001	BE/	ARING LOO	CKNUT /	AFBMA N	-02			47
1	211-008	38-001	BE/	ARING LOO	CKWASH	ER AFBM	W-02			46
1	801-090	03-001	RE	TAINER, B	ALL SC	REW				45
1	211-003	5-003	MR	C 5202SB	SKZZ DE	IL ROW B	ALL BR	iG 🛛		44
1	113-000	025–08	RE	TAIN. RING	, BOW	1.375 X	1.526			43
5	101-502	21-006	SHO	CS, M4 X	0.7 P	X 16 LG				42
1	801-090	05-001	BAL	L NUT A	DAPTER	BRKT. P	LATE			41
6	110-006	6-012	LOC	KWASHER	<u>, EXT.</u>	<u>M8</u>				40
6	101-501	0-008	SHO	<u>, M8 X</u>	1.25 P	X 30 LG	;			39
1	901-011	3-001	BR/	ACKET, B	ALL NU	LOWER	ADAPTI	ER		38
1	211-800	02-016	BAL	L NUT W	/WIPER	S, 5MM L	EAD			37
4	605-30	03-001	DIE	SPRING,	5/8 X	11/32 X	1" LG			36
4	115-500	02-005	SHS	5 <b>5, 8</b> MM (	X 30MM					35
1	001-190	09-003	ASS	SY, MTEB						34
1	901-011	2-002	SEF	NO MOTO	OR COVE	R				33
4	801-082	20-001	FIX'	TURE KEY	, MACH	INE				32
8	115-500	02-002	SHS	55, 8MM	DIA X 1	6MM				31
2	211-110	0-010	LIN	EAR BEAF	RING &	WAY ASS	SY SR2	5		30
2	801-190	00-010	PLA	TE, R-A	XIS BEA	RING MOL	JNTING			29
14	101-500	006-80	SHO	CS, M6 X	1.0 P	X 20 LG				28
28	110-500	01-005	WA	SHER, FL/	AT M8					27
10	101-501	0-005	SHO	CS, M8 X	1.25 P	X 20 L0	;			26
1	901-011	0-002	VEF	RTICAL SU	PPORT,	RIGHT				25
1	801-090	09-001	BAL	L SCREW	, .7872	DIA X 1	7.5 LG	5MM		24
1	110-500	01-014	WA	SHER, M6	CARB	ODY				23
4	801-066	50-001	T-I	NUT						22
4	101-501	1-007	SHO	CS, M10 >	<u> </u>	X 25 LG	;			21
1	408-75	01-007	#14	5 JIFFY (						20
2	110-006	32-009	LOC	KWASHER	<b>R</b> , 9/16	INTERNA	<u>L</u>			19
1	404-52	02-005	SWI	TCH, UMH	KON ROL	LER				18
3	110-004	6-007	LOC	KWASHE	(, M6	<u>, , , , , , , , , , , , , , , , , , , </u>				1/
4	108-50	J4-001	BHO	CS, M6 X	1.0 P	X 10 LG				16
1	801-190	02-001	BK/	ACKEI, G	AUGE LI	MII SWII				15
5	408-01	/1-040			RLUCK	1/4" BLK	( NYLU	N		14
1	101-502	21-004	SHO	<u>S, M4 X</u>	0.7 P	X 10 LG				13
1	408-01	/1-045		AUKET, EL		1/4 CO	NDUIT I	NUUN	1	12
1	901-011		VER	CITCAL SU	THURI,					
I	+Uō-U1.	/1-044		WINEGIUR,	1/4 \$	TRAIGHT	21-11	-X		10
4	108 50	11 007			0 5 5	V 10 1 C				9
4		1-003								
1	407 401	4-003		VER, K-A			AKINE SS	END		+
1	423-190	JU-005	HA	INESS, A		AXIS INTE	KNAL			6
/	100-500	1 007		JO, MO X	V.8 P		//5			
1	901-011	1-003			50440	KI, K-AX	0			4
4	105-500				A 1.25	г X 12 L	.U	ייתם		
0	001-014				UTONITAL		OUKLW	rrH		2
	301-011									
411	PART NU	millin.			110	et				
FACE	REATMENT	EXCEPT AS N	OTEDa	_						
٢	$\sim$	ALL DIMENSI IN INCHES TOLERANG DECIMAL	DNS B E	HURED	HUR	CO MANUFA INDIANA	cturing Polis, in	COMPAN U.S.A.	NY, DN	2
T TREA	TMENT	.0 1.0 00 70	300 150 050	DESCRIPTION						
ſ	$\sim$	0000 1.0	005	ASSY, R	-AXIS	<u>\$7</u>				
'	-	BREAK AL	L	GLH	DATE 3-31-02	JLW	DATE 4-1-02	WEH	EØ	DATE 7_8_01
st usei	ND N	THIRD ANG	LE .	SCALE	SIZE	DRAWING	72		SHT	
S	7	PROJECTIO	<b>*</b>	I≓∠ UNITOFMEAS.	$ \mathbf{D} $	001-1-	705_1	<u> </u>	ᆄ	
			₽	ĒA.		001-17	100-0	<i>N</i> 4	2	



PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION INTHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.









SIZE DRAVING -018 SHT. REV. PROPRIETARY INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCH MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISAMILATION CONTAINED HEREIN IS THE PROPERTY OF HURCH MANUFACTURING COMPANY, INC. NO REPRODUCTION OR	
	2 2 2 2 801-0903-003 CAP, BEARING 57
	2 2 2 2 2 211-0087-057 LDCK NUT #N01 56
	2 2 2 2 211-0088-028 LDCKVASHER #W01 54
	2 2 2 2 801-2011-004 HOUSING, BEARING 53
	4 4 4 4 801-2008-004 SPACER, VERTICAL RDJ 52
	2 2 2 2 801-0146-001 LIDCK, SHAFT 50
	1 1 1 1 105-5046-007 HHCS, N6 X 1.0 P X 20 LG 49
	2 2 2 2 801-2010-009 PLATE, BALL BUSHING MOUNTING 48
	2 2 2 2 801-2018-003 BLOCK, HORIZONTAL SUPPORT 46
	2 2 2 2 801-2002-018 BRACKET, BALL NUT 45
	4     4     4     211-5004-004     PILLUW BLUCK, 3/4 JIA TWIN FIXEJ     44       16     16     16     101-5021-006     SHCS, N4 X 0.7 P X 16 LG     43
	2 2 2 2 801-0738-004 SHAFT, LONG TENSIONER PULLEY 42
	1 1 1 1 117-5016-001 HEX NUT, N10 X 1.5 P 41
	1 1 1 1 105-5046-008 HHCS, M6 X 1.0 P X 30 LG 39
	1 1 1 1 801-0738-003 SHAFT, SHORT TENSIONER PULLEY 38
	3 3 3 3 801-0081-004 PULLEY, 2.38 DIA BELT TENSIONER 37
	6 6 6 6 108-5002-002 BHCS, M4 X 0.7 P X 10 LG 35
	3 3 3 3 108-5005-002 BHCS, M8 X 1.25 P X 12 LG 34
	5 5 5 5 211-0035-010 BEARING, 12MM DOUBLE ROW ANGULAR CONTACT 33
	2 2 2 2 110-5001-004 WASHER, M6 FLAT 31
	8 8 8 8 101-5008-004 SHCS, M6 X 1.0 P X 16 LG 30
	1 1 1 1 404-5202-012 SVITCH, LIMIT 29
	Column 1 - 1 - 204-0006-012 DELT, 2213L030 IMMUG 20   Ch (b) - 1 - 1 204-0006-011 BELT, 953L050 TIMING 28
	4 4 4 4 101-5011-005 SHCS, M10 X 1.5 P 20 LG 27
	2 2 2 2 801-0826-010 PULLEY, 24L050 TIMING BELT 26
	- 1 - 1 801-2011-010 HEUSING, LP21-1.5 M R-AXIS TEP 25
	1 1 1 1 423-1900-007 HARNESS, R-AXIS INTERNAL 24
	4 4 4 4 108-5001-004 BHCS, M3 X 0.5 P X 12 LG 23
	I     I
	4 4 4 4 101-5007-022 SHCS, M5 X 0.8 P X 16 LG 20
NOTES:	1 1 1 1 801-0805-003 KEY, 3/32" X 3/32" X 1" LG. 19
1. 001-1705-018 - STD. LP21-1.5 M R-AXIS ASSEMBLY	2 2 2 2 101-5010-005 SHCS, N8 X 1.25 P X 20 LG 17
001-1705-019 - STD. LP21-4.0 M R-AXIS ASSEMBLY 001-1705-020 - SHORT LP21-1.5 M R-AXIS ASSEMBLY	1 1 1 1 801-2008-003 SPACER, R-AXIS NUTUR 16
001-1705-021 - SHORT LP21-4.0 M R-AXIS ASSEMBLY	1 1 1 1 801-2003-016 CUVER, MTEB FRUNT 15   2 2 2 101-0007-006 SHCS. 3/8-16 X 1/25 LG 14
🞯 2. ITEMS 58 & 59 ARE NOT SHOWN ON ASSEMBLY.	2 2 2 2 110-0001-008 WASHER, 3/8 NDM. FLAT 13
	4 4 4 4 605-5001-006 SPRING WASHER, 1/2' BELLEVILLE 12
	2 2 801-0025-008 ASSY, BALL SCREW/NOT (STANDARD) 11
	4 4 801-2005-004 RDD, HARDENED VERTICAL GUIDE (STANDARD) 10
	4 4 801-2005-006 RDD, HARDENED VERTICAL GUIDE (SHDRT) 10
	1 1 1 1 1 801-2002-019 BRACKET, LP R-AXIS HARNESS 8
	1 1 1 1 801-2003-024 CDVER, LP R-AXIS RIGHT SIDE 7
	1 - 1 - 801-2003-029 CDVER, LP21-4.0 M R-AXIS TOP 6
	14 14 14 14 110-5001-003 WASHER, FLAT M5 5
	14 14 14 14 109-5003-003 BHCS, M5 X 0.8 P X 10 LG 4
REF REF REF REF REF 415-0248-038 ENCLUDER, 500 L 60 60   1 - 1 - 614-0002-127 BDX, LP21-4.0 M R-AXIS SHIPPING 59 63	1     1     1     1     801-2003-025     CUVER, LP R-AXIS     LEFT SIDE     3       2     2     2     2     603-0121-009     HANDLE, MDN. KIPP     2
- 1 - 1 614-0002-123 BUX, LP21-1.5 M R-AXIS SHIPPING 58	4 4 4 4 101-5011-008 SHCS, M10 X 1.5 P X 30 LG 1
GTY, GTY, GTY, GTY, PART NUMBER ITEM DESCRIPTION ITEM	GTY, GTY, GTY, GTY, PART NUMBER ITEM DESCRIPTION ITEM
	-021 -020 -019 -018 PARTS LIST EXCEPT AS NOTED- ALL DENSITIAS HURCO MANUFACTURING COMPANY, INC ALL DENSITIAS
	HUNDERATE HINDERATE IN INCRESS IN U.S.A. AS FOLLOWS INSTITUE IN
D 14903(1) WAS 001-2009-006; (2) ITEM 60 ADDED C 14550(3) ITEMS 58 & 59 ADDED; (4) SHT 3 - NOTE ADDED	UM Too US Too US Too US UT STOR AUS STATUS   Jul 222 R. 1.221 R. 1.22
B 14497 WAS 204-0006-006	Implementation     Impleme





SIZE DRANING -018 D 001-1705 -019 -020 -021

ат<u>4</u> D

PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCD MANUFAGTURING COMPANY, ING. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION BYALL BE MADE BY THE RECIPIENT TO ANY OFFICE PERSON OR DIGAMEZATION INTHOUT THE PRIOR WRITEN CONSIST OF FURCE MANUFACTURING COMPANY, ING.



SECTION C-C(FROM SHEET 2) (SHOWN WITHOUT SIDE COVER)







SIZE	DRAWING -010	4	REV.
D	011 -015		$\sim$
D	1001 - 1705 - 012 - 016	ᅋ	
-	-014	<u> </u>	-

NOTES:

	1.	001-1705-010 - STD. LP21-2.0 M R-AXIS ASSEMBLY
		001-1705-011 - STD. LP21-2.5 M R-AXIS ASSEMBLY
		001-1705-012 - STD. LP21-3.0 M R-AXIS ASSEMBLY
		001-1705-014 - SHORT LP21-2.0 M R-AXIS ASSEMBLY
		001-1705-015 - SHORT LP21-2.5 M R-AXIS ASSEMBLY
		001-1705-016 - SHORT LP21-3.0 M R-AXIS ASSEMBLY
6	2.	ITEMS 66, 67, & 68 ARE NOT SHOWN ON ASSEMBLY.

								₩EV	PHN.	ι€Λ(2)	ON DESCR	IPTION	٩Y	DATE	₩	MTEN	TIDATE	JF	LP21	GAUGE	:
								A	14148	REL				П							
								B	14550	(1) ITEMS 66, 67, & 68 AI	DED) (a	2) Sht 3 - Note added	Jw-	00 3/17 90	S R <sub>H</sub>	00 - 3/10 R	2 00 2 2/18 H 58	╞	FIRST US	SED ON	
								F	14903	(1) 1/48 001-2000-005- (2)		9 ADDED	J.,		1	n/m .	J_ 02/33		/	$\sim$	
								Н						Η	$\vdash$	+	┽┤		HEAT TR	EATHENT	_
								Н					$\vdash$	⊢┦		-	+		/	$\sim$	
								Н					$\vdash$	⊢┦	$\vdash$	-	┽┥			~ /	
-016	-015	-014	-012	-011	010		PART	s us	1				-01 1	6	-0	15	-014	-1-		TREATHEN	-। त
QTY.	QTY.	ETY.	QTY.	ety.	erry.	PART NUMBER		ITEN	DESCRIPT	TIDN	ITEM		पा	Y.	e	ry.	QTY.		RTY.	ет <u>ү</u> .	G
16	16	16	16	16	16	101-5021-006	SHCS, M4 X 0.7 P X	16	LG		51		4	ł	4	4	4	+	4	4	
4	4	4	4	4	4	211-5004-004	PILLOW BLOCK, 3/4	DI	A TVI	N FIXED	52		ĉ	2	i	2	2	+	2	2 2	
2	2	2	2	2	2	801-2002-018	BRACKET, BALL NUT				53	ļ	1	<u> </u>		1	1		1	1	
2	2	2	2	2	2	801-2018-003	BLOCK, HORIZONTAL	SU	PPORT		54		14	4	1	4	14		14	14	
4	4	4	4	4	4	101-5008-006	SHCS, NG X 1.0 X 20	0 LI	G		55		1	4	1	4	14		14	14	
2	2	2	2	2	2	801-2010-009	PLATE, BALL BUSHIN	NG I		ING	56		-	·	-	-	1		-	-	
1	1	1	1	1	1	105-5046-007	HHCS, NG X 1.0 P X	20	LG		57		-	· _ ]	1		-		-	1	
2	2	2	2	2	2	801-0146-001	LOCK, SHAFT				58		1		-	-	-		1	-	
8	8	8	8	8	8	101-5010-009	SHCS, M8 X 1.25 P	х з	5 LG		59		1		1		1		1	1	
4	4	4	4	4	4	801-2008-004	SPACER, VERTICAL	ROD	)		60		1		1		1		1	1	
2	2	2	2	2	2	801-2011-004	HOUSING, BEARING				61		2	2	Ĩ	2	2		2	2	
2	2	2	2	2	2	211-0088-028	LOCKWASHER #W01				62	Ī	4	F	4	ŧ	4		-	-	
2	2	2	2	2	2	219-0003-002	TRANTERQUE, 10 MM	I.D.			63	Ì	-	. –	-		-		4	4	_
2	2	2	2	2	2	211-0087-057	LOCK NUT #NO1				64	Ì	2	2	ē	2	2	$\top$	-	-	-
г	2	2	2	2	2	801-0903-003	CAP, BEARING				65	Ť	-	.	-	-	-		2	2	
-	-	1	-	-	1	614-0002-124	BOX. LP21-2.0 M R-4	AXIS	S SHIF	PING	66	m t	4	$\neg$			4	╈	4	4	_
-	1	- 1	-	1	- 1	614-0002-125	BOX. LP21-2.5 M R-4	AXIS	IH2 2	PING	67	à l	2		2	2	2	╈	2	2	_
1	-	-	1	-	-	614-0002-126	BOX. LP21-3.0 M R-4	AXIS	S SHIF	PING	68	à l	2		- 2	2	2	╈	2	2	_
REF	REF	REF	REF	REF	REF	416-0248-058	ENCODER, 500 L				69	ത	1		1		1	+	1	$\frac{1}{1}$	
												-	1	-	1	-	1	+	1	$\frac{-}{1}$	-
												-	2	, –		>	2	+	2	-	
												-	1	_			1	+	1	$\frac{1}{1}$	_
												-	4	-	-	•	4	+	4	-+	
												(C)	1		1		1	+	1		
												~	1		1		1	+	1	1	
												L	٩	r –	-	•	4		4		

2	2	2	2	2	2	801-073	8-004	SHAF	T, LONG 1	ENSION	ER PULLEY	50
1	1	1	1	1	1	117-501	6-001	HEX	NUT, M10 🗄	X 1.5 P		49
5	5	5	2	5	2	117-501	3-001	HEX	NUT, MG X	(1.0 P		48
1	1	1	1	1	1	105-504	6-008	HHCS	, M6 X 1.0	рхз	IO LG	47
1	1	1	1	1	1	801-073	8-003	SHAF	T, SHORT	TENSID		46
3	3	3	3	3	3	801-008	1-004	PULL	EY, 2.38 1	DIA BEL	T TENSIONER	45
6	6	6	6	6	6	110-500	1-002	WASH	IER, M4 FL			44
6	6	6	6	ь 2	ь 2	108-500	2-002	BHC2	, M4 X U./			43
5		5	5	5	5	211-003	5-002 5-010	REAR	, MO A 1.2 ING. 12NM			41
				1	1	801-044	0-002	PLAT	E. BELT T	ENSION		40
2	2	2	2	2	2	110-500	L-004	WASH	IER, MG FL	LAT		39
8	8	8	8	8	8	101-5008	3-004	SHCS	, MG X 1.0	P X 1	6 LG	38
1	1	1	1	1	1	404-520	2-012	SWIT	CH, LIMIT			37
1	-	-	1	-	-	204-000	6-006	BELT	, 1894L05	O TIMIN	G	36
-	1	-	-	1	-	204-000	6-005	BELT	, 1579L05	O TIMIN	G	35
-	-	1	-	-	1	204-000	6-004	BELT	, 1264L05	O TIMIN	G	34
4	4	4	4	4	4	101-501	1-005	SHCS	, M10 X 1.	5 P 20		33
	2	<sup>2</sup>	2	2	2	801-085	6-UIU		LT, 24L05			32
	<del>-</del>	+			-	801-201	1-00/		ING 1 021-	-3.0 M I		31
<u> </u>	<u> </u>	+	+	-	-	801-201	1-005		ING. 1 021-	-2.0 M		30 29
	1	1	1	1	1	423-190	0-007	HARN	ESS. R-AX			28
4	4	4	4	4	4	108-500	1-004	BHCS	M3 X 0.5	5 P X 1	2 LG	27
1	1	1	1	1	1	801-200	3-017	COVE	R, MTEB F	REAR		26
	1	1	1	1	1	001-200	9-011	ASSY	, MTEB, 5	00 L		25
4	4	4	4	4	4	101-5007	7-022	SHCS	, M5 X 0.8	3 P X 1	.6 LG	24
1	1	1	1	1	1	801-080	5-003	KEY,	3/32" X	3/32″)	X 14 LG.	23
1	1	1	1	1	1	801-082	6-009	PULL	EY, 12L05	O TIMIN	G BELT	22
2	2	2	2	2	2	101-5010	0-005	SHCS	, M8 X 1.2	25 P X	20 LG	21
1	1	1	1	1	1	801-200	8-003	SPAC	ER, R-AXI	S MOTO	R	20
1	1	1	1	1	1	801-200	3-016	COVE	R, MTEB F			19
2	2	2	2	2	2	110-000	-006	SHUS	, 3/8-16			18
				4	4	605-500	1-008	SPRI	ICR, 378 I	R. 1/2"		16
-	+-	-	2	2	2	801-002	5-007	ASSY	, BALL SC		JT (STANDARD)	15
2	2	2	-	-	-	801-002	5-008	ASSY	, BALL SC		JT (SHERT)	14
-	- 1	- 1	4	4	4	801-200	5-004	RDD,	HARDENEI	VERT	ICAL GUIDE (STANDARD)	13
4	4	4	-	-	-	801-200	5-006	RDD,	HARDENED	) VERTI	ICAL GUIDE (SHERT)	12
2	2	2	5	2	2	813-507	9-001	SHAF	T, HORIZO	NTAL S	UPPORT	11
1	1	1	1	1	1	801-200	2-019	BRAC	KET, LP R	R-AXIS	HARNESS	10
1	1	1	1	1	1	801-200	3-024	COVE	R, LP R-	AXIS RI	GHT SIDE	9
1	-		1	-	-	801-200	3-021		R, LP21-3	3.0 M R-	AXIS TOP	8
-	<u>  1</u>	-			-	801-200	3-020		к, LP21-2	.5 M R-		
-	-		-	-	14	801-200	3-019		к, LP21-2 Гр гілт	.U M R-	-WYT2 INL	6
14	14	14	14	14	14	108-500	3-003	BHUCS	. M5 Y 09	10 1 2 2 2 1	016	 
1	1	1	1	1	1	801-200	3-025		R. LP R-4	AXIS I F	FT SIDE	3
	2	2	2	2	5	603-012	1-009	HAND	LE, MON. H	KIPP		5
4	4	4	4	4	4	101-501	-008	SHCS	, M10 X 1.	5 P X 3	30 LG	1
GTY	. ету.	QTY.	QTY.	етт.	QTY.	PART NU	MBER			ITE	H JESCRIPTION	ITEM
-010	6 -015	-014	-012	-011	-010					PARTS L	IST	
			SURFAC		NT EXCEL ALI AS	PT AS NOTEDA L CORNERS MUST BE FOLLOVS	EXCEPT A ALL DIME IN INI TOLER	s noted: Ensions Ches Ance		HUI	RCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
			HEAT T		200. 200. 21UD	" X 45° DR " R MAX 106	.0 .00 .000	±.0300 ±.0150 ±.0050 ±.0005	DESCRIPTION ASSY, L	.P21 R	R-AXIS	
-W	‰ J <sub>S</sub> ‰	J_ @2/38		~	.090	"X 45* DR 'R	ANGULAR	± (*3)/	J.L.V.	DATE 9/21/98	CHECKED DATE APPROVED D R.J.H. 9/25/98 J.L.W. 9.	NTE /25/98
w	<u>%</u> RH**	Кн 🐝	TIRST I	JSED ON	EXCE	PT AS NOTED	THIRD (	ANGLE		SIZE	DRAVING -010 SHT. RI	
- RYI		ASCIDATE I	F LP2	1 GAUGE	E AS	E T2UN 50LL0VS ±,12		Ø	UNIT OF HEAS EA	D	$\begin{array}{c} 001 - 1705 - 011 & -015 \\ -012 & -016 \\ -014 \end{array} \xrightarrow{\bullet} 4$	U





PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION BY ALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR TORGANIZATION INTHOUT THE PRORY INTERLO CONSENT OF HURCO MANUFACTURING COMPANY, INC.



section C-C(FROM SHEET 2) (SHOWN WITHOUT SIDE COVER)



















PARAMETER	UNITS	MT30M4-36
GENERAL		
VOLTAGE GRADIENT - NO LOAD	VOLTS/1000 RPM*	- 38
MAX TERMINAL VOLTAGE	VOLTS	140
MAX SPEED	RPM	3700
CONTINUOUS STALL TORQUE TENV***	Nm	3.0
	LB-IN	26
CONT. STALL TORQUE BLOWER COOLED***	Nm	5.5
	LB-IN	49
CONTINUOUS STALL CURRENT TENV	AMPS	8.6
ARMATURE POLAR MOMENT OF INERTIA	Kgm²	0.0017
	IB-IN SEC ?	0.015
TORQUE CONSTANT KT++	Nm/ANP*	0.35
	LB-IN/AMP*	3.1
VOLTAGE CONSTANT KV**	VOLTS SEC RAD-10	0.35
PEAK STALL TORQUE**	Nm	14
	LB-IN	124
CURRENT AT PEAK TORQUE**	AMPS	47
THEORETICAL ACCEL, AT PEAK TORQUE	RAD/SEC*	8200
WINDING	•	
ARMATURE RESISTANCE LESS BRUSHES**	OHMS*	0.82
ARMATURE INDUCTANCE	MILLIHENRYS*	6.5
MECHANICAL TIME CONSTANT**	MILLISECONDS	15
THERMAL		
INSULATION CLASS		F
MAX. AMBIENT TEMPERATURE	°C (Ŧ)	40 (104)
THERMAL TIME CONSTANT	MNUTES*	50
NECHANICAL		
STATIC FRICTION TORQUE	Nm	0.15
	LB-IN	1.3
MOTOR WEICHT	Kg	7.3
	LB	16
TACHOMETER	•	
VOLTAGE GRADIENT	VOLTS/1000 RPM*	7
	VOLTS SEC RAD-10	0.067
RIPPLE	PER CENT	1.0
	CYCLES/REV	25
ARMATURE RESISTANCE**	OHMS	24
ARMATURE INDUCTANCE	MILLIHENRYS*	36
MAXIMUM CURRENT	AMPS	0.035

PIN DESIGNATION					
COLOR	PIN				
RED	2				
BLACK	1				
GREEN	8				
RED	4				
BLACK	3				
BROWN *	9				
YELLOW *	14				
RED *	10				
GREEN *	15				
ORANGE *	12				
BLUE *	16				
WHITE *	11				
BLACK *	13				
GREY *	7				
	RED BLACK GREEN BLACK BROWN * YELLOW * RED * GREEN * ORANGE * BLUE * WHITE * BLACK * GREY *				

PROPRIETARY INFORMATION

REV	NO.	NE-VISION DESCRIPTION	18Y	PATE	184	PATE	ſάŸ	AD A TE	UF.	001-2007-00
в	14743	REDRAWN TO MATCH NEW PPA & NEW VENDOR	ł	2/34 20	Ъ	\$ <b>2</b>	ł	4/25 99		001-2007-00-
										FIRST USED ON
										$\sim$
										HEAT TREATMENT
										$ $ $\sim$
										SURFACE TREATMENT

\$IZI



11 10 9 8 7 6 5 4 3 3
10 9 8 7 6 5 4 3
9 8 7 6 5 4 3
8 7 6 5 4 3
7 6 5 4 3
6 5 4 3
5 4 3
4
3
2
1
NGU
-
,
K189
DATE

### USE ITEM #9 (METRIC KEY) ON MOTOR DRIVEN MECHANICAL STOP ADJUSTED PRESS BRAKES. USE ITEM #10 (SPRING PIN) ON HANDWHEEL DRIVEN MECHANICAL STOP ADJUSTED PRESS BRAKES.









1	801-03	50-001	PIL	LOW BLOCK. THOMPSON	23					
1	801-03	30-001	SP/	ACER, BALL JOINT	22					
1	801-02	82-002	GIB	MOUNTING	21					
2	211-36	08-005	BAI	L JOINT, 1/4-28	20					
1	210-00	45-005	TH	DMPSON ROD, 3/4 DIA X 35 7/8 LG	19					
REF	-	-	M4	X 10 LG SCREW (COMES W/ SCALE)	18					
1	901-00	55-005	GU	ARD	17					
1	416-02	49-039	30'	LINEAR SCALE	16					
1	115-00	04-001	SH	SS, 1/2 DIA X 1/2 LG	15					
2	801-02	81–001	BR	ACKET, SCALE	14					
1	801-02	85-001	BLC	BLOCK, TOP						
1	801-02	84-001	BLC	BLOCK, TOP MOUNTING						
6	101-00	03-003	SH	SHCS, #8-32 X 1/2 LG						
4	110-00	01-007	WA	WASHER, FLAT 5/16"						
10	101-00	06-006	SHCS, 5/16-18 X 1" LG							
4	101-00	06-004	SHCS, 5/16-18 X 3/4 LG							
1	801-0291-001			BRACKET, LOCATOR						
1	801-02	92–001	BAR, LOWER							
1	801-03	29-001	SPACER, SLIDE BLOCK							
4	117-00	05-001	NUT, HEX 1/4-28							
8"	322-00	02-001	ROD, ALL-THREAD 1/4-28							
2	101-00	09-007	SH	CS, 1/2-13 X 1 1/2 LG	2					
2	103-01	22-009	SSS 1/4-28 X 3/8 LG NYLOK							
QTY.	PART NU	MBER		ITEM DESCRIPTION						
				PARTS LIST						
RPAGE.	IREALNENT	EXCEPT AS N ALL DIMENSI	oted: ONS							
$\sim$		IN INCHER TOLERANC DECIMAL	5 E	HURCO HARDPACIONNO COMPART, INC. INDIANAPOLIS, IN U.S.A.						
AT TREA	TMENT	00 ±0	150	DESCRIPTION						
r	$\sim$	.0000 ±.0	005	SCALE ASSY, 30" STD AB7	_					
•	-	BREAK AL SHARP EDG	ES	DATE CHECKED DATE APPROVED DAT GLH 1-25-93 KLP 1-25-93	Ľ					
st use	DON	THIRD AND	LE .	SCALE SIZE DRAWING SHT. REV						
A	B7		The second secon							
			Y.	EA.   I =   001 - 2004 - 003   1   1						





					34					
1	801-03	09-001	BAL	L SCREW	, PROM	ECAM 40	o serie	S		30
1	901-00	67-003	BRA	CKET, AC			AM 400			29
1	211-80	02-015	BAI	1, 174-2 1. NUT. F			1105	DIV	.33	20
4	101-50	11-007	SHO	S, M10	X 1.5	P X 25 I	G			26
2	211-90	01-001	BE/	RING, ND	#U3020	)4LIA				25
1	801-03	i12–001	BEA	RING, CA	RTRIDG	E PROME	CAM			24
2	608-70	01-001	SEA	l, Beari	NG, NIL	os <b>#</b> 320/	4JV			23
1	801-03	13-001	SPA	CER, BE/	ARING F	ROMECAN	1 406			22
1	211-00	88-002	LOC	KWASHER	R, BEAR	ING WO4	AFBMA			21
1	211-00	87-002		KNUI, B	EARING	NU4 5/9" D(	DE 3/	16 K		10
3	203-00	01 - 004	WAS	SHER FLA	AT 5/16	<u>- 370 BU</u> 5"	JRE J			18
2	101-00	06-007	SHO	S. 5/16	-18 X	, 1 1/4 L	G			17
1	801-20	03-002	CO	ER, REAL	RAMAD	A/PROME	CAM 40	O AB	37	16
1	801-03	10-001	SHA	FT, PRO	MECAM	DRIVE				15
1	113–00	02-014	RET	AIN. RING	G, EXT	BASIC .78	3 DIA			14
1	801-03		PRO	MECAM		FRAME C	ASTING			13
। उ	609-00	09-012	BEA KEV	WOODR	UFE #6	0#//604 .07				12
1	208-00	02-005	SPF	ROCKET. 1	TIMING	BELT 40X	L037			10
1	604-00	01-004	SCF	REW, VILE	R #AHS	-312A				9
1	604-00	01-003	MCS	S-312 S	CREW C	HECK NU	л			8
6	108-00	05-004	BHS	$\frac{300}{14}$	-20 X	3/4 LG				
1	211-00	09-013	RAF			) 773104	5			5
2	801-03	26-001	RET	AINER, B	EARING		-			4
6	101-00	84-003	SHO		32 X 5	5/8 LG				3
1	801-02	23-003	PR	MECAM I	DIAL 2-	AXIS			_	2
1	703–00	03-006	PR	DMECAM I	DIAL LA	BEL L.H.				1
QTY.	PART NU	MBER				N DESCRIPTION				ITEM
		EXCEPT AS N ALL DIMENSI IN INCHER TOLERANC	oted: ONS } E	11111200	HU	RCO MANUFA INDIANA	CTURING C Polis, in	:OMPAN U.S.A.	iy, inc	•
AT TREA	TMENT	J ±.00	51	DESCRIPTION						
~		.000 ±.00 .0000 ±.00	50 05	ASSY, P	ROMEC	AM 400	DRIVE,	AB7		
r	$\checkmark$	BREAK AL	L ES	GLH	DATE 1-13-93	KLP	DATE 1-13-93	JLW	Ð	DATE 2-25-93
rst usei	) ON			scale 1=1	SZE	DRAWING			<sup>янт.</sup> 1	
			€	UNIT OF MEAS. EA.	D	001-2	2006-	001	۴_1	Ľ



- 1. CLEAN BORE OF CASTING. USE EASTMAN 910 (4 DROPS). SPREAD ON ETCHED SIDE OF BEARING. LINE UP CLAMP HOLE-INSERT ITEM 11. FORCE BEARING AGAINST CASTING. 2. SET SCREW MUST BE ON FLAT OF ITEM (2). 3. AFTER CYCLE, DRILL .18 DIA X .9 DEEP, AT PILOT HOLE TO INSERT 3/16 DIA SPRING PIN (ITEM 1), 2 PLACES.
- 4. CW IS DOWN DIRECTION.
- 5. ITEMS 41, 42 & 43 NOT SHOWN.
- 6. ITEMS 41, 42 & 43 USED AT INSTALL.

REF	416-02	48-058	3 EN	CODER, 500 LINE DIFF	44					
1	423-02	01-01	I HA	RNESS, AB7 Y-AXIS IF	43					
1	103-51	28-026	3 SS	S, M6 X 25MM LONG	42					
2	101-50	11-009	) SH	CS, M10 X 35MM LONG	41					
1	703-00	03-000	5 PR	OMECAM DIAL LABEL, L.H.	40					
1	801-01	82-003	5 DR	IVE SCREW-L.H. LONG	39					
1	103-00	05-027	' SS	S. 1/4-20 X 1/2 LG KNURL CUT PT.	38					
1	117-00	05-015	i NU	T, HEX, #10-32	37					
1	110-00	01-007	7 WA	SHER, FLAT 5/16"	36					
2	108-00	06-004	BH	SCS, 5/16-18 X 3/4 LG	35					
1	105-00	84-007	/ нн	HHCS, #10-32 X 1 1/4 LG						
1	208-0002-002			ROCKET, 20XLB037 1/2" BORE	33					
1	204-00	02-002	BE	LT, TIMING, 170XL037	32					
1	801-01	60-003	5 CO	VER, END PROMECAM 2-AXIS AB20	31					
4	101-00	03-004	I SH	CS, #8-32 X 5/8 LG	30					
11	108-00	84-003	5 BH	SCS, #10-32 X 1/2 LG	29					
1	801-02	37-00	I SU	PPORT, COVER 2-AXIS PROMECAM	28					
1	801-00	27-002	2 BR	ACKET, MOTOR MOUNTING	27					
1	001-20	09-010	л мт	E, AB7 500 LINE	26					
1	801-20	03-00		VER, REAR PROMECAM AB7	25					
1	801-19	03-00	i Ico	VER, FRONT PROMECAM AB20	24					
4	111-02	41-00		/ET. #AD-32-ABS SCOVIL	23					
1	703-10	01-053		LABEL, INF. VERTICAL AXIS CONTROL						
1	404-52	02-012		LIMIT SWITCH						
1	801-03	00-00	I FR	AME, CASTING PROMECAM 2-AXIS	20					
4	110-0042-004			CKWASHER, HELICAL. #10	19					
4	101-0084-002			CS. $\#10-32 \times 1/2 \text{ LG}$	18					
1	801-1902-002			ACKET, LIMIT SWITCH	17					
1	801-1904-001			LLAR. L.S.	16					
1	103-00	06-022	2 55	SSS. 5/16-18 X 1/2 LG KNURLED CUP PT.						
1	112-50	04-01	SP	SPRING PIN. 1/8 X 1 1/2 LG						
8	101-00	84-004	I SH	SHCS. #10-32 X 3/4 LG						
1	801-01	66-00		DRIVER, 2-AXIS PROMECAM						
1	801-01	62-00	I SP.	ACER, DRIVE PROMECAM	11					
1	604-00	01-003	л мо	S-312 SCREW CHECK NUT	10					
1	801-01	69-00	BR	AKE. 2-AXIS PROMECAM	9					
1	604-00	01-004	+ SC	REW. VLIER #AHS-312A	8					
1	801-02	64-00		PROMECAM BUSHING 2-AXIS						
1	801-01	63-00'		PULLEY, DRIVEN, 2-AXIS PROMECAM						
6	108-00	05-004	F BH	SCS. 1/4-20 X 3/4 LG	5					
1	801-0208-001			VERNIER. 2-AXIS PROMECAM						
1	801-0183-002			LEFT HAND BRONZE NUT 2-AXIS						
1	801-0223-003			PROMECAM DIAL 2-AXIS						
2	112-50	06-00	5 SP	RING PIN, 3/16 DIA X 3/4 LG	1					
OTY.	PART NU	MBER		TTEM DESCRIPTION	menu					
			-	PARTS LIST						
RFACE	REATMENT	EXCEPT AS	NOTED:							
r		IN INC	ISIUNS IES	HURCO HURCO MANUFACTURING COMPANY, INC.						
	•	DECIMAL	VCE							
AT TREA	TMENT	00	.0150	DESCRIPTION						
~		.0000	.0050	ASSY, PROMECAM DRIVE, AB7						
	<u></u>	anaular 7	UBJU							

	.0000 2.0005	ASSY, PROMECAM DRIVE, AB7								
ý	BREAK ALL	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE			
	SHARP EDGES	GLH	1-14-93	KLP	1-14-93	JLW	2/25/93			
ED ON	THIRD ANGLE PROJECTION	scale 1=1		DRAWING		<del>ын.</del> 1	REV. TT			
AB7	₽₽	UNIT OF MEAS. EA.	D	001-2	006-	002 <mark>* 1</mark>	П			



	33	34			
4.4	100 00	04 007	D''	000 H40 70 V 4 /0° + 0	10
11	108-00	84-003	BH	SUS, $\#10-32 \times 1/2^{\circ}$ LG	40
1	801-02	J/-001	SU PP	PORT, UVER - 2 AXIS PRUMECAM	<u>ງ</u> ຊ
1	703-10	01-053		TEL. INFO. VERTICAL AXIS CONTROL	37
1	001-20	09-010	MT	E. AB7 500 LINE	36
1	801-19	03-002	CO	VER, FRONT AMADA/PROMECAM 400 AB20	35
1	801-04	37-001	EN	D CAP AMADA	34
1	801-04	26-001	BAI	L SCREW AMADA	33
1	211-80	02-015	BAI	L NUT, PRELOADED, RP-1105	32
1	001-12	75–001	ASS	SY, ACTUATOR BRACKET	31
1	103-00	05-023	SS	S, 1/4-20 X 3/8" HALF DOG BRASS PT.	30
1	112-50	08-003	SP	RING PIN, 1/4 X 1" LG	29
2	103–00	05-048	SS	S, 1/4-20 X 1" LG KNURL CUP PT	28
1	801-03	51-002	NU	T, MOUNTING	27
1	801-04	27-002	BE/	ARING, CARTRIDGE	26
1	001-11	91-001	SP/	ACER, BEARING AMADA	25
2	211-90	01-001	BE/	ARING, ND#U30204LIA	24
2	608-70	01–001	SE/	AL, NILOS #3204JV	23
1	801-03	13-001	BE	ARING SPACER, PROMECAM 400	22
1	211-00	88-002	LO	CKWASHER, WO4, AFBMA BEARING	21
1	211-00	87-002	LO	CKNUT, NO4 BEARING	20
1	205-00	01-004	CO	UPLING, SIZE 62 5/8 BORE 3/16 K	19
3	110-00	01-007	WA	SHER, FLAI 5/16"	18
2	101-00	05-007	SH	US, 5/16-18 X 1 1/4 LG	1/
1	801-20	10-002	CU CU		10
1	113_00	02_014	DE	TAIN PINC FYT BASIC 78 DIA	14
1	801-03	00-002	PR	OMECAM 2-AXIS FRAME CASTING	13
1	211-00	09-012	RAI	DIAL BEARING, ND#77604	12
3	609-00	01-019	KE	r, WOODRUFF #607	11
1	208-00	02-008	SP	ROCKET 48XL037	10
1	604-00	01-004	SC	REW, VILER #AHS-312A	9
1	604-00	01-003	MC	S-312 SCREW CHECK NUT	8
6	108-00	05-004	BH	SCS, 1/4-20 X 3/4 LG	7
1	801-03	27-001	SP/	ACER	6
1	211-00	09-013	BE/	ARING, ND#773L05	5
Z	801-03	26-001	RE	IAINER, BEARING	4
0			SH	いっ, #10ー32 ス 3/15 LG	3
1	001-02	23-003			2
, 017	PART NI	MBER			- 1004
			I	PARTS LIST	· ·
RFACE 1		EXCEPT AS N ALL DIMENSI IN INCHES TOLERANC DECIMAL 0 ± 00	DTED: DNS E 500	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
		.000 ±.0	050	ASSY, AMADA DRIVE, AB7	
<b>^</b>	$\checkmark$	ANGULAR ±0 BREAK AL	30°	DIVANI DATE CHECKED DATE MANNAND DA	TE
st use	DON	SHARP EDG	ES F	GLF1  1-13-93   KLP  1-13-93   JLW  2- SCALE SIZE  DRAWING  SHT. IRE	-25-93 V.
AB7			<b>•</b>	$\begin{array}{c c} 1=1 \\ \hline \textbf{DNT OF MEAST} \\ \hline \textbf{DAT OF MEAST} \\ \hline \textbf{D} \\ \hline \textbf{001-2006-003} \\ \hline \textbf{0^{f} 1} \\ \hline \textbf{1} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{1} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{1} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{1} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{1} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{1} \\ \hline \textbf{0} \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \hline \textbf{0} \\ \hline \textbf{0} \\ \hline \textbf{0} \hline $	E


REF	416-024	8-058	ENCO	DER, 500	LINE DIF	F.				28	
1	204-000	2-012	TIMIN	G BELT, 2	30XL037					27	
1	423-020	01-011	HARN	IESS, AB7	Y-AXIS	IF				26	
1	706-000	6-022	INSTA	LL TEMPL	ATE FOR	ADIRA KI	Г			25	
2	110-000	1-006	FLAT	WASHER,	1/4					24	
2	101-000	5-004	SHCS	, 1/4–20	X 3/4"	LG				23	
2	110-500	1-004	FLAT	WASHER,	M6					22	
2	101-500	8-006	SHCS	, M6 X 1.(	0 P X 2	D LG.				21	
2	110-000	1-007	FLAT	WASHER,	5/16					20	
2	101-000	6-002	SHCS	, 5/16-18	3 X 1/2"	LG.				19	
2	110-500	1-005	FLAT	WASHER,	M8					18	
2	101-501	0-003	SHCS	, M8 X 1.	25 P X '	16 LG.				17	
1	801-200	2-009	BRAC	KET, AB7	ADIRA L	IMIT SWITC	:H			16	
1	801-082	6-002	PULL	EY, 40 TO	отн w/	30 MM BC	ORE			15	
1	204-000	2-002	TIMIN	G BELT, 11	70XL037					14	
1	404-520	2-012	LIMIT	SWITCH						13	
1	801-200	2-002	BRAC	BRACKET, UPACTING LIMIT SWITCH MOUNT							
1	001-200	9-010	M.T.E	M.T.E., AB7 500 LINE							
1	801-064	1-001	BRAC	КЕТ, МОТО	R MOUN	TING				10	
4	101-000	3-004	SHCS	SHCS, #8-32 X 5/8 LG.							
1	208-000	2-002	PULLEY, 20XL037 GEARBELT							8	
1	103-512	8-026	SSS, M6 X 1.0 P X 25 LG PLAIN PT							7	
1	204-000	2-006	TIMING BELT, 180XL037							6	
1	112-500	8-003	SPRING PIN 1/4 DIA X 1 LG.								
										4	
										3	
										2	
										1	
qty.	PART NU	MBER			ITE	DESCRIPTION				пем	
					PARTS L	ST					
JRFACE	TREATMENT		s noted:								
			ANCE		HUI •	INDIANA	CTURING C Polis, in 1	UMPAN U.S.A.	IY, INC	•	
AT TREATMENT 00			± 0150	DESCRIPTION						<u> </u>	
			±.0005	ASSEMB	LY, ADI	RA QHA	2nd AX	IS		199 	
BREAK SHARP E			ALL	GLH	DATE 1/21/93	KLP	DATE 1/21/93		_W	DATE 2/25/93	
rst us	ed on	THIRD	ANGLE	NONE	SZE	DRAWING			SHT 1	REV.	
ABT	7 57			UNIT_OF MEAS		001-2	006-0	)04	<del>~ _</del>		
			Y	I PC		_	_		<u>ک</u> ا		



M	REAR	
А	PRESS	BRAKE

1	-	_		-							_
0	TY.	PART N	MBER		ITEM DESCRIPTION						
			_		PARTS LIST						
	EXCE AU AI	PT AS NOTED	EXCEPT AS ALL DIME IN INC TOLER:	s noted: Nsions Hes Ance		HUR	CO MANUFA INDIANA	cturing ( Polis, in	COMPAI U.S.A.	NY, INK	1
	.050 05 0UTS	TX45°OR RMAX DE:	0, 00. 000.	±.0300 ±.0150 ±.0050	DESCRIPTION ASSEMB	ILY, AD	IRA QHA	2nd	AXIS		
	.03( 05'	7" X 46" OR 'R	ANGULAR	± 0'30'	GLH	DATE 5-10-94	CHECKED JLW	DATE 5-19-94	JL	WED W	DATE 6-6-94
	EXCE WELDI 1 At	T AS NOTED- NG TOLERANCE MUST BE 5 FOLLOWS ± 12			scale 1=2 unit of meas. EA	D	001-2	006–0	04	SHT. 2 0F2	L



					32		)	
4	111-02	41-001	RIV	ET, #AD-	32-AB5	SCOVIL	36	
1	703–10	01-053	LAE	BEL, INFO.	VERTIC	CAL AXIS CONTROL	35	
1	001-20	09-010	MT	E, W/ 500		CODER	34	
1	801-20	37-004	EN	D CAP AM	ADA	XIS	32	
1	801-04	26-003	BA	L SCREW	AMADA	/ADIRA	31	
1	211-80	02-015	BA	L NUT, P	RELOAD	DED, RP-1105	30	
1	103-00	05-023	AS	SY, ACTUA S $1/4-2$	TOR BE	ACKET	29 28	
4	101-50	10-008	SH	<u>-, 1/4-2</u> CS, M8 X	1.25	P X 30 LG	27	
1	801-06	28-001	AD	PTOR, BE	ARING	CARTRIDGE	26	
1	001-11	91-001	SPACER, BEARING					
2	211-90 608-70	01-001	BLARING, ND#U30204LIA SEAL, NILOS #3204.IV					
1	801-03	13-002	BE	ARING SPA	VER		22	
1	211-00	88-002	LO	CKWASHER	, WO4,	AFBMA BEARING	21	
1	211-00	87-002	LO	CKNUT, N		RING	20	
3	101-00	01-007	WA	SHER, FLA CS 5/16-	-18 X	) 1 1/4 IG	19 18	
1	205-00	01-004	00	UPLING, S	IZE 62	5/8 BORE 3/16 K	17	
1	801-20	03-003	00	VER, REAF	AB7		16	
1	801-03	10-002	SH	AFT, DRIVE	- FVT		15	
1	801-03	00-002	PR	OMECAM 2		FRAME CASTING	13	
1	211-00	09-012	RA	DIAL BEAR	ING, NI	D#77604	12	
3	609-00	01-019	KE	Y, WOODR	UFF #6	07	11	
1	208-00 604-00	01-008	SP	REW VIIF	OXLU37 R #AHS	-312A	10	
1	604-00	01-003	MC	S-312 SC	CREW C	HECK NUT	8	
6	108-00	05-004	BH	SCS, 1/4	-20 X	3/4 LG	7	
1	801-03	27-001	SP				6	
1	801-03	26-001	BE	AKING, ND	#/73LC	CI	5 4	
6	101-00	84-003	SH	CS, #10-	32 X 5	5/8 LG	3	
1	801-02	23-003	DIA	L			2	
1	703-00	03-006	LAE	BEL, L.H.			1	
	PARTINU	THE BLIX			PARTS L	ST		
RFACE TREATMENT			DTED ONS E	HURGO	HUI	RCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.		
T TREA	TMENT	0.± 00.	150 050					
			00a 130" L		557, A	CHECKED DATE HAPPROVED DAT KIP 1_91_93_1.11 W	E	
st usei	SHARP EDG ST USED ON THIRD ANG PRO 15/2010			SCALE		DRAWING SHT. REV 1	-2-80	
A				UNIT OF MEAS. E.A.	D	001-2006-005	Ľ	







<u>────────────────────────────────────</u>					
<b>ॏ─────────────────────</b> ─────────────					
	) ©	REF	416-0248-0	58 ENCODER, 500 LINE DIFF.	43
	• 6	2	101-5008-0	03 SHCS, M6 X 1.0 P X 12 LG	42
	•	2	101-5008-0	04 SHCS, M6 X 1.0 P X 16 LG	41
	<u>ه</u> ا	1	423-0201-0	11 HARNESS, AB7 Y-AXIS IF	40
	69	1	901-0085-0	03 COVER, KOMATSU MOTOR	39
		2	117-5013-0	01 HEX NUT, M6	38
4.25		1	205-0002-0	19 COUPLING, LO50 X 11 MM BORE	37
		1	205-0002-0	20 COUPLING, LO50 X 12 MM BORE	36
		1	205-0002-0	121 INSERT, LOSO COUPLING	35
		1	801-2002-0	05 BRACKET, AB7 KOMATSU LS	34
		1	801-2002-0	06 BRACKET, AB7 KOMATSU LS MOUNTING	33
	*	2	408-8003-0	01 CORD GRIP, 1/2" (.5 TO .625)	32
	*	20	406-5001-0	06 TIE WRAP, MEDIUM	31
SECTION A-A	*	30	123-0001-0	13 SCREW, 1/4-20 HWH	30
	*	4	110-5001-0	05 WASHER, M8 FLAT	29
	* (4)	8	110-5001-0	04 WASHER, M6 FLAT	28
	* (4)	8	110-0066-0	11 LOCKWASHER, M6 EXT	27
(e	2)*	8	110-0046-0	DB LOCKWASHER, M8 SPRING	26
	*	1	103-5128-0	26 SSS, M6 X 25 LG.	25
	*	4	101-5010-0	07 SHCS, M8 X 25 LG.	24
		4	101-5008-0	UB SHUS, M6 X 25 LG.	23
600	•	67	101-5008-0	US SHUS, MG X 20 LG.	22
		<u>৩</u>	406-3001-0	52 WIRE MARKER, BRADY WM-1-16-D	21
		30	406-5001-0	18 CABLE THE, X-LARGE SCREW DUWN	20
	~ .	Z	707-2001-0	DI DRILL BIL, 1/8" DIA FRACTION	19
	ୢୄ	1	/0/-2001-0	04 DRILL BII, 13/64 DIA FRACTION	18
	-	1	403-0301-0	OD RELAT, UPDI TOA KTOPTTUTS	1/
	- ·	500	406-1243-0	CABLE, 4 COND 18 GA SHIELDED	10
	99 ·	50	408-0162-0		15
	12) ·	2	408-1121-0	UT CUNNECTOR, 1/2 DIA	14
		2	408 8002 0	101 1/2 DIA APPLETUN #514550	13
e	29 °	2	408-8501-0		14
		+	400-0007-0	60 80Y 25" Y 17" Y 11 7/8"	10
		4		03 SHCS M5 X 12 LG	4
	*	+ 1	001-3007-0	05 ASSY AB7 IOC INTERFACE	8
NOTES:	·	1	404-5202-0	12 MICRO SWITCH, B77R0181-T	7
1) CONNECT (-) LIMIT SWITCH CABLE OF 423-0201-011		1	421-0004-0	OB CLIP. RELAY SPRING	6
IU SWIICH. 2) SPEED OF POTATION IS 100 TO 150 PDM		1	801-0716-0	02 BRACKET, MOTOR MOUNT	5
3) 1 REVOLUTION = 1MM OF RAM DISPLACEMENT.		1	801-0738-0	02 ADAPTOR, SHAFT 1/2" TO 12MM	4
4) MOTOR SPINS CCW (NEGATIVE) TO CALIBRATE.		4	101-0003-0	05 SHCS. 8–32 X 3/4 LG.	3
5) NOTE, ITEMS MARKED WITH * ARE NOT SHOWN	ଜ	1	001-2009-0	10 ASSY., MTE 500 LINE DIFF.	2
ON ASSEMBLY.	~	2	103-8002-0	21 SSS. M5 X 6 LG.	1
		OTY.	PART NUMBER	ITEM DESCRIPTION	пем
				PARTS LIST	1
SURFACE	E TREATMEN	·			
G 14903(1) WAS 001-2009-003; (2) WAS 416-0248-054 JLW 21 JAS 22 /	$\sim$ )	EXCE AL	L CORNERS ALL	HURCO HURCO MANUFACTURING COMPANY, INC	
F 13612 ADDED ITEM 43	-				
E 13572 (1)ADDED ITEMS 41 & 42/2)WAS GTY 4/3)WAS GTY 10/(/REVSED DELINEATION OLH 12 UW 12 UW 18 HEAT TH	EATMENT	.05	2 DECIM	± 0300 + 0150	
D 13341 ADDED ITEM 40	$\sim$		DE	ASSY., AB7 KOMATSU PHS	
C 13191 TEM 18 WAS 707-2001-002, QTY 2	~	.03	R 48° OR 4000	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	DATE 7-21-93
B 13111 (4) WAS OTY 8 & 101-5008-003; (5) TEM #39 ADDED J J S ADDED J B A B R H & T J B A B A B A B A B A B A B A B A B A B	SED ON	EXCE	PT AS NOTED: 1H	RD ANGLE SCALE SIZE DRAWING SHT. F	EV.
A 12704 REL		INELDIN	IS TOLERANCE   PR	ROJECTION   INVINE   TALI	$\cap$
	407		MUST BE		
REV PLN. REVISION DEPORTPTION REVISION DEPORTPTION	AB7	A:	S FOLLOWS		Կ

 $\begin{bmatrix} 0.01 \\ 0.01 \\ -2006 \\ -007 \end{bmatrix} \begin{bmatrix} 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \end{bmatrix} \begin{bmatrix} 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \end{bmatrix} \begin{bmatrix} 0.01 \\ 0.01 \\ 0.01 \\ 0.01 \end{bmatrix}$ D

PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE REOPERTY OF HURCO MAULTACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION BHALL BE MUCH BY THE RECIPIENT TO ANY OTHER PERSON OR COMPANZATION WITHOUT THE PROR WITTEN CONSENT OF HURCO MAULTACTURING COMPANY, INC.



VIEW B-B



NOTE: 1. ITEMS MARKED WITH \* ARE NOT SHOWN ON ASSEMBLY.

										$\sim$
										HEAT TREATMENT
D	14903	(1) WAS 001-2009-004; (2) WAS 416-0248-050	٩Ľ	2/21 00	Js	2/26 09	Js	28 28		$\sim$
C	13612	ITEM 26 ADDED	٩	÷.	₽ <sup>∓</sup>	1° 2	RH	12		
B	13468	ITEM 25 ADDED	Jw	•_# 95	R <sub>H</sub>	1-38 14	۶	åÊ		FIRST USED ON
A	13362	REL								487
REV	Pild.	REVISION DESCRIPTION	W	DATE	đÅ	DATE	₩	DATE	DF-	



\* 🚯

0



_						-						
	2	408-850	01-001	LOCK	NUT, 1/2 (	CONDUIT					21	
30	X0"	406-124	2-002	CABL	E, 18 GA 2	Z COND.	SHIELDED				20	
1	2	408-800	3-004	SEAL,	, 1/2 DB3	516 CON	DUIT				19	
	2	408-800	02-010	oil s	EAL 1/2						18	
											17	
	1	423-020	01-026	HARN	HARNESS, AB7 408" Y-AXIS FOR GUIFIL & ADIRA							
	2	110-000	1-006	FLAT	FLAT WASHER, 1/4							
	2	101-000	5-004	SHCS	, 1/4-20	X 3/4 L	.G.				14	
1	2	110-500	1-004	FLAT	WASHER, I	M6					13	
2 101-5008-006				SHCS	,M6 X 1.0	PX 20	) LG.				12	
	2	110-000	1-007	FLAT	WASHER,	5/16					11	
	2	101-000	6-002	SHCS	, 5/16–18	X 1/2	LG.				10	
1	2	110-500	1-005	FLAT	WASHER, I	M8					9	
;	2	101-501	0-003	SHCS	HCS, M8 X 1.25 P X 16 LG.							
1	2	404-520	02-019	LIMIT	lMIT SWITCH, #Z15GW22−B7−K							
	1	801-082	26-001	PULLE	EY, 40XL03	57 w/ 12	2 MM BORI	E			6	
	1	204-000	2-005	TIMIN	TIMING BELT, 160XL037							
	4	110-000	01-001	WASHER, #6 NOM. FLAT							4	
	1	801-082	6-005	PULLEY, 20XL037 w/3/8 BORE							3	
	4	101-000	2-008	SHCS, #6-32 X 5/8 LG.							2	
	1	001-200	9-009	ASSY, QMC IDS2234-MTE3165								
Ø	3	PART NU	MBER			ITE	oescription				ITEM	
-(	800					PARTS L	ST					
		PT AS NOTED L CORNERS MUST BE S FOLLOWS	EXCEPT A ALL DIME IN IN TOLER DECIMAL	s noted <sup>.</sup> NSIONS HES ANCE	\$10] {{ <b> 6</b> [0]	HUE	CO MANUFA INDIANA	cturing ( Polis, in	:0MPA U.S.A.	NY, IN	C	
	050	X 45" OR	0	± 0300 + 0150	DESCRIPTION							
	05° R MAX .00 OUTSIDE: .000		±.0050	ASSEMB	ILY, GL	JIFIL-PE	2nd	AXIS	S			
	030" X 45" OR		± 0'30'	J.L.W.	DATE 6-6-95	RJH	DATE 6-8-95	APPRO JL	ŝ	DATE 6-8-95		
	EXCEP	T AS NOTED	THIRD /	NGLE	SCALE NONF	SIZE	DRAWING			<del>знт.</del> 1	REV.	
MUST BE		Ā	UNIT OF MEAS.		001-2	006-0	08	0F 1				
				$\Psi$	EA			103				





NOTE: 1. ITEMS 7, 8 & 27 TO BE USED AT INSTALL.

REF	416-0248-058	ENCO	DER, 500 L	32
1	205-5001-007	U-JD	NT, 3/4 O.D. W/ M8 END HOLES	31
2	102-5004-003	FHCS,	M6 X 1.0 P X 12 LG	30
1	801-2018-005	BLOC	<, BEARING	29
1	211-7802-005	BEAR	NG, .875 DIA "IGLIDE"	28
2	117-5016-001	HEX I	NUT, M10	27
1	211-0036-001	BEAR	ING, HEXAGON	26
2	102-5005-007	FHCS,	M8 X 1.25 P X 20 LG	25
2	112-8001-001	THRE	ADED PIN, M8 X 1.25 P X 50 LG	24
1	801-0163-001	PULL	EY, PROMECAM DRIVE	23
1	801-2007-003	BEAR	NG, DRI∨E	22
1	211-7802-003	BEAR	NG, 1.75 DIA 'IGLIDE'	21
1	801-2021-001	CAP,	BEARING	20
1	103-0006-022	SSS,	5/16-18 X 1/2" KNURLED POINT	19
1	204-0002-004	TIMIN	G BELT, 190XL037	18
1	208-0002-002	PULL	EY, 20XL037	17
4	101-0043-001	SHCS	#8-32 X 3/8" LG	16
1	801-0641-001	BRAC	KET, S7 MTE MOUNTING	15
2	110-5001-005	FLAT	WASHER, M8	14
6	117-5051-001	HEX I	NUT, M8	13
1	001-2009-010	MTE,	AB7 500 LINE	12
1	423-0201-011	HARN	ESS, AB7 Y-AXIS	11
1	404-5202-012	LIMIT	SWITCH	10
1	801-2000-011	PLAT	E, Y-AXIS MOUNTING	9
2	110-0046-009	LOCK	ASHER, M10 HELICAL	8
2	103-5010-014	SSS,	M10 X 1.5 P X 50 MM LG FLAT PDINT	7
4	101-0084-004	SHCS	#10-32 X 3/4"	6
1	801-2018-004	BLOC	<, BEARING	5
4	101-0084-002	SHCS,	#10-32 X 1/2" LG	4
1	801-1904-002	COLL	AR, HURCE Y-AXIS SWITCH	3
1	801-2020-010	SHAF	Γ, HEX	5
1	801-0374-002	BUTT	IN, HARDENED SHAFT	1
GTY.	PART NUMBER		ITEM DESCRIPTION	ITEM
			PARTS LIST	
EXCE AL AS INSII	CORNERS L CORNERS MUST BE FOLLOWS EI EI MUST ARE DECIMAL	AS NEITED- IENSIONS ICHES RANCE ±0300	HURCO MANUFACTURING COMPANY, INC INDIANAPOLES, IN U.S.A.	
.05	R MAX .00	±0150		

INSTIFT	LUCLUMAL							
.050° X 45° DR .05° R MAX DUTSIDE:	.0 ±.0300 .06 ±.0150 .060 ±.0050	DESCRIPTION ASSY, H	IURCO	PRESS	BRAKE	Y–A	xis	
.030" X 45" DR .05" R	ANGULAR ± \$*30'	DRAWN J.L.W.	JATE 5-4-98	CHECKED R.J.H.	DATE 5-7-98	APPROV	1810 ₩.	DATE 5-8-98
Except as noted veloing tolerance must de as follovs ±,12		scale 1:1 unit of meas EA	D	001-2	2006-0	11	s#T. 1 <sup>DF</sup> 2	D









										7
D	13020	ITEM 1 WAS 404-7001-020; ADDED ITEM 20	٦	٣ĥ	Tw	훕				
С	12870	ITEM 19 ADDED	۸r	e≩	Τw	å	тw	11/24		П
B3	12891	CHANGE TB14 FINS 13,14 TO TB18 FINS 11,12	Tw	eś	۶	å	₹	14/20		
B2	12891	CHANGE TB15 PINS 3,9 TO 2,8	Tw	εŝ	۶₹	흫	۶w	*2		
B	12891	ADDITION OF ITEM #18 ON BOM.	тw	тŝ	۶	뿋	٩	14/30		П
A	12609	RELEASE								
REV	P.M.	REVISION DESCRIPTION	¥	DATE	٩. ١	DATE		DATE	DF	





								-	Ł
								-	4
								-	
								-	
								_	
								_	Ľ
								_	ŀ
	25-90 <del>1</del> 1	PCB	OUTSI	DE :	STUFF			51	I
	-001	JUM	PEZ NIA	E 304	A BLACK			50	1
2	- 062	KEY	POLARIZ	ING-			-	49	شيد ا ا
2	3-120	HEAD	DER, GPC	25			91	4:3	
, ,	-017	NUT	, 4/EX #	6-32				47	H.
	- 007	LOCK	WASHER	#6			-	46	F
	2-004	SC DI		#4-72	V/4		-	15-	ĺ.
:	-000	SOC		LC COV				4.4	Ľ.
1	-004		$N \equiv I_{1} = I_{1} = I_{1}$	30000	<u> </u>			44	Ľ
ł	-021	-INS	ULATOR,	THERM	AL, <u>70-3</u>			43	Ľ
-	-009	TER	MINAL, W	460 B	PRAS.		781	42	
Į	<u>- 011 - 1</u>	TERI	NINAL, W.	AGO 3	PG1		TBI	41	1
),	-023	DIP	SWITCH, E	3 POS.			'51, SZ	40	
X	2-007	HEA	tsink, to	0-3			·	39	L
2	- 053	HEAD	DER, 16 PC	PS.			13	<u></u> 2a	Ł
2	- 052	HEAI	CER, 14 P	05.			12	37	1,
5	-576	RES	,   M.a. 1	MF			R16	36	l.
	- 120	355	. 150Kr	MF			R56	35	1
-	- 673	RES	- 365 KA	MF			RI5	34	1
7	- 176	DES.	2.714	r ह			89		ž
7		PES	5 M n					+	, <sup>e</sup>
-	- )/T	0.55	- 1.071-L			<u> </u>			Ł
2	-396	MED.	<u></u>				R17	27	Ł
7	57.5	RES.	221 1.0	IM⊨		<u> </u>		1 30	ł
-	<u>~ 0//</u>	RE5	- 4-2 K.n.		SEE SHEET	3	10.0,100	4.29_	1
	- 201	RÉS,	. <u>j</u> 21.4 h	16 .			R62	28	1
ł	-119	RES.	130 K =	<u> </u>			88	27	۳
é	- 116	RÉS.	ICOK P	MF		43,950	RS1, R57, R65	26	
ī	- 287	RES.	1Ka	MF			R45, R49	25	
ŕ	- 464	RES.	68.1 Ka	MH			R6	Z4	
é	- 101	RE5.	24 K-A.	MF	R, 1 R 555	₹4, R26 R63.R61	1R41, R72-, R54 	* Z 2	
2	- 385	RES.	10Kn	MF			RZ, R3, R12, R0 R46, R59, R64	5 22	1
	5 - 297	RES.	1.21 KA	M.F			R\$6, R59,	21	1
1	-029	Port.	2 K.Ω				R61	20	
	COL	PØT.	2 M.a.			····	R5. 813	19	1
j	- 162	CAP.	WE T	ANT:	C9, C/I) C	13, 0.15,	CH, C20,	.6	
	-014	CAD			CI-C4, 07,	<u>⊂al ca</u> ⊊/2,01		1 17	
		CAD	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	- (	142, CBG - C3C, 1	CS2, C35j	<u>€37,⊂38,<b>(</b>4)</u> -C8,C/0,⊂IR,C/	9 I.C.	1
-	-008		00,00	-			124,C34,C34	<u>ا المعامة</u> -	
•	-061	2044		-			مارتيا.		ł
	036	/AGAIN	STORUN	iPN, ∠r	NEREZA		_ω( <b>-ω</b> 4 Cei-∂en."	+	ł
1	-001	000	E, IN 9147	326	SHALF 3	_	GR16, 52, 7	13	1
Í	-025	0,00	E, INSER	ر د			CHB-CHD	12	Ł
);	3-019	LM3	38K				<u>U14</u>	į. <u>11</u>	Ł
1	- 262	MC I	45948				47,48	1.0	Į.
2	1-039 ;	MC J4	070 B				u/3	9	1
(	-261	MC/45	504 B				Це	18	┢
ł	-260	MC /4	5 38B				ui-u5	7	1
1	042	MC 144	2818				. ug	6	
	0/9	MC 140	SH}₿				010	5	
ľ	-259	MC [4:	5038				1417, 41B 1419, 420	4	
ŀ	- 258	QS 36	(3)				UI5, UI6	Э	
1	-ore	MC 140	2238				Uil, 412	2	
5	-001	PC E	JOARD						1
	MBER			TEMI	JESCRIPTION		Ram	11EM	1
				PARTS LIS	эт				1
·	EXCEPT AS	S NOTED.							1,
	AL DIME IN INC TOLERAN	NSIONS HES ICES	HUNCO ®	HURC	O MANUFACTU INDIANAPC	JRING ILIS, IN	COMPANY. U.S.A.	INC.	ľ
	0 4 .00 1	030	DESCRIPTION						1
1	000	0005	INTER	RFACE	BOARD,	CH	I. FM		1
	BREAK	ALL DGES 3	DRAWN JRB	DATE JAUGES	CHECKED DA	TE	THE T	DATE 7 Αυώδο	t
Ì	THIRD A	INGLE TON		SIZE	DRAWING	0	01 SHT. 1	15Y.	
	Ð	<b>\$</b> -	UNITOF MEAS.	D	415-022	5- j	01 0* 3	D	Í







C	1 PC	408-850	1-010	LOCK	NUT 1 1	/4" NP	T			24		
С	1 PC	408-101	4-012	REDU	CER, FEMA	LE 1 1/	′4* to 3/	/4"		23		
ъ	13 PC	406-750	01-011	soc	KET CO	ONTAC	т 20-	24 AWG	GOLD	22		
IN	408 IN	406-200	5-030	WIRE,	18 AWG (	REEN/Y	ELLOW			21		
Ś	30 PC	406-500	1-006	WIRE	TIE, MEDIU	М				20		
С	1 PC	406-400	05-061	CON	INECTOR,	FEMA	LE W/	LATCHES	6 POS	3 19		
õ	– PC	406-750	1-012	CONT	ACT, PIN, 2	24-20 /	WG GOLD			18		
С	4 PC	406-096	5-004	CRIM	P FERRULE	, 18 AW	GRED			17		
С	1 PC	406-080	1–142	CRIM	RIMP TERMINAL HOUSING, 15 POS.							
ъ	15 PC	406-080	1-135	TERM	INAL, CRIMI	° 22–30	) AWG			15		
N	4 IN	406-648	1-002	SHRIN	NK TUBE, 1	/8" BL/	ACK			14		
N	2 IN	406-168	7-010	WIRE,	24 AWG E	BLACK				13		
N	2 IN	406-648	1-004	SHRIN	NK TUBE, 1	/4" DIA	BLACK			12		
N	2 IN	406-200	5-020	WIRE,	18 AWG E	BLACK				11		
С	1 PC	408-800	3-053	CORI	ORD CONNECTOR, 3/4" NPT, .375500 I.D.							
IN	408 IN	406-132	8-006	CABL	e, 4 pair i	TWISTED	24 AWG			9		
IN	408 IN	406-124	2-001	CABL	CABLE, 1 PAIR TWISTED 18 AWG							
N	4 IN	406-648	1-005	SHRIN	NK TUBE, 3	5/8" DIA	BLACK			7		
С	3 PC	406-750	1-009	soc	SOCKET, CONTACT 16-18 AWG GOLD							
С	1 PC	406-048	1-003	PLU	PLUG, 16 POSITION CONNECTOR CPC17							
С	1 PC	406-750	5-003	CLA	CLAMP, CONNECTOR CABLE CPC17							
IN	1224 N	406-124	2-013	CABL	E, 1 PR T\	VISTED 2	24 AWG			3		
N	6 IN	406-648	1-003	SHRIN	NK TUBE, 3	5/16" D	A. BLACK			2		
c	4 PC	406-700	1-025	RING	TONGUE,	6 26-2	22 AWG			1		
	QTY.	PWRT NU	MBER			me	U DESCRIPTION			MEM		
ŧ	-013					PARTS L	চা	<u>.</u>				
	SURFACE	TREATMENT		S NOTED:								
		$\sim$		HES	HURO	HUI	RCO MANUFA	ACTURING COMP/ APOLIS. IN U.S.A	NNY, ING. L			
		-	DECIMAL	- 0100		·						
	HEAT TREA	HEAT TREATMENT .00			DESCRIPTION							
				7.0005	HARNESS	6, AB7	MSTOP	IF				
			BREAK	ALL		DATE 01/18/93	MFC	DATE APP 01/20/93 [		DATE 2/25/93		
	FIRST USE	5D ON	THIRD /	ANGLE	SCALE	SIZE	DRAWING		SHT	REV.		
	AD7				NONE.	D	423-0	0201-013	ऽ∣ <sub>@</sub> ⊑_┤			
DF		AB7			PC	$\boldsymbol{\nu}$		014	- 1			





ART NUMBER & REVISION. SHOWN. FOR WIRE DRESS. VERY 1".	
SMALL	
	- <sup>3</sup>
N = MTA - 156 + COSITION	
	5
LUG, MIA-IUU	+ -
TIA-TUU IN LINE Y MUSTIUN	
LE, MIA-IUU 9 POSITION FEED-THRU	
	ITEM
PARIS LISI	
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
NINEGO, ADI CHINCHININA HI FIVI GUALE IF IN IDATE I CHECKED I DATE I APPROVED I D	ATE
(LP 03/02/93 MFC 03/08/93 DAB 04	1/06/93
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \text{ONE} \\ \hline \\ \begin{array}{c} \text{OF} \\ \text{OF} \\ \end{array} \end{array} \end{array} \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ 1 \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ 1 \\ \text{OF} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \text{SHT.} \\ \end{array} \\ $	EV.





C 13201 (1) ADDED TB16 WIRE, (2) WAS QTY 3, (3) WAS QTY 8" GLH 23 JLW 23 D 7/28 K 7/28 MFC 728 93 B 12760 ITEM 5 WAS QTY 1". SCHEMATIC REDRAWN A 12609 RELEASE K 03/04 M 03/08 M 03/08 S3

RFV

P.I.N. NO.

REVISION DESCRIPTION

CN AB155

Т	В20	)		
NC	10	GND		
NC	9	GND		
KEY	8	GND		
<b></b>	7	+24	VDC	
NC	6	-12	VDC	
	5	+12	VDC	
- NC	4	+12	VDC	
	3	GND		
	2	GND		
	1	GND		
	LJ			
RRULE, 16A	WG BLA	ICK		
KRULE, 18A	WG REE	)		
AWG BLACK	<			 

P FERRULE, 16AWG BLACK	9
P FERRULE, 18AWG RED	8
, MTA KEYING	7
18 AWG BLACK	6
SHRINK, 1/8" DIA. BLACK	5
SHRINK, 1/4" DIA. BLACK	4
E, 1 PAIR TWISTED 18 AWG	3
ER, MTA-156 W/STRAIN RELIEF 10 POSITION	2
EPTACLE, MTA-156 10 POSITION 18 AWG	1
ITEM DESCRIPTION	ITEM
PARTS LIST	
HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION	
HARNESS, AB7 CINCINNATI FM 24VDC PC	WER
DRAWN   DATE   CHECKED   DATE   APPROVED   DA   KLP   03/04/93   MFC   03/08/93   DAB   06	APR93
SCALE SIZE DRAWING SHT. RE	V.
UNIT OF MEAS () 423-0202-006 OF 1	

DECIMAL

HEAT TREATMENT

FIRST USED OF

DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ± 0005 ANGULAR ± 0'30' BREAK ALL DUADE EDEDE

SHARP EDGES

THIRD ANGLE PROJECTION

 $\odot$ 



NCINNATI FM PCB	
ER & REVISION.	
3 CONDUCTOR, 22 AWG RINK, 1/4" DIA. BLACK	32
RRULE, 22AWG LT. GREEN	1
	ITEM
HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. CRIPTION ARNESS, AB7 CINCINNATI FM RELAY I/	O ATE
(LP 03/05/93 MFC 03/09/93 DAB 04	/06/93
$ \begin{array}{c c} \hline ONE \\ \hline OF MEAS \\ PC \\ \hline \end{array} \begin{array}{c} \hline \\ 423 \\ -0203 \\ -002 \\ \hline \\ 05 \\ 1 \\ \hline \end{array} \begin{array}{c} 381. \\ 1 \\ 05 \\ 1 \\ \hline \end{array} \begin{array}{c} 1 \\ 05 \\ 05 \\ 05 \\ 05 \\ 05 \\ 05 \\ 05 \\ $	-**





701- E BLA ASS '	0002– CK 70 C" ALI	008 GR 1-0001- L OVER.	AY PRI -040.	MER	•	
LUMINU	JM 1 1/	′4 X 3 1/	2 X 1/8	3		
	ITEN	DESCRIPTION				ITEM
	PARTS LI	ST				-
HURCO	HUI	RCO MANUFA INDIANAI	CTURING C POLIS, IN I	OMPAN U.S.A.	Y, INC	
CRIPTION						
RACKE	Τ, Υ ΑΧ	(IS UP A	CTING I	S.	MOU	NT
MN 	DATE 1-11-93	CHECKED R.HALL	DATE 1-11-93	APPRO	VED	DATE
e   = 1 of meas EA	C	801-2	002–0	02	SHT. 1 OF 1	REV.



i X 3.5	5 X .25				1
	ITE)	DESCRIPTION			ITEM
	PARTS LI	ST			
HURCO	HUI	RCO MANUFAG INDIANA	cturing c Polis, in 1	OMPANY, ING U.S.A.	C.
CRIPTION					
RACKE	T, MECI	HANICAL	STOP (	OPTION	
MN [FFIN	DATE 04-19-90	CHECKED JLW	DATE 04-19-90	APPROVED JLW	DATE 04-19-9
e 1:2 of meas EA	C	drawing 901-0	120-00	)1 0F 1	REV.



1	423-020	1-013	HARN	ESS, AB7	M-STOP	IF				42
REF	001-190	9-007	AS5Y	M-STOP	MTE					41
	901-012	20-001	BRAC	KET, DC M	OTOR					40
1	208-000	7-002		TFR. XI TO	8M PU					38
3	102-500	2-003	FHCS	. M4 X 12						37
1	208-000	2-001	PULL	EY, GEAR E	BELT 30	(L037				36
1	208-000	2-006	PULL	EY, GEAR E	BELT 18	(L037				35
REF	204-000	8-016	BELT,	8M-640						34
1	901-012	0-004	BRAC	KET, RISER	!					33
5	101-501	1-005	SHCS	, M10 X 2	OLG					32
1	801-201	3-008	BRAC	KET, GEAR	BOX SU	PPORT				31
2	101-500	3-001	HEX	NUI, M6						20
1	206-000	7-006	GFAR	BOX. 7 T	0 1 RFF	UCTION				28
1	801-082	6-007	PULL	EY. GEAR E	BELT 30	(L037 - ·	10 BORE			27
1	205-000	2-027	COUP	LING, LOVE	JOY LOS	0-10 MM				26
1	205-000	2-021	INSEF	T, LOVEJO	Y L050	RUBBER				25
1	205-000	2-011	COUP	LING, LOVE	JOY LOS	i0-1/2				24
1	204-000	8-014	BELT,	8M-560						23
										22
1	112-500	8-007	SPRIN	IG PIN, 1/	4 X 1	1/2 LG.				21
4EF	801-008	2 002	SPRO	TIMINO	-221-20	MM BURE				20
1	204-000	3-002	SUSS	MIO X 2	0 16	/				18
1	801-080	3-005	BRAC	Ket. Limit	SWITCH					17
8	110-500	1-004	WASH	ER, M6 FL	AT					16
6	101-500	8-004	SHCS	, M6 X 16	i LG.					15
1	609-000	1-010	KEY,	#4 WOODF	RUFF, 3/	32" X 5/	8"			14
1	801-082	6-006	PULL	ey, gearbe	ELT 36XI	.037 - 10	DMM BOR	RE		13
1	113-000	1-013	RING,	RETAINING	N5000	-137				12
1	211-003	5-003	BEAR	ING, DOUBI		BALL	,			11
1	801-200	6-025	THRE,		BOWN	5001-137				10
1	801-200	05-002	BRON	ZE NUT						8
1	801-200	0-006	BASE	PLATE						7
2	404-520	2-012	LIMIT	SWITCH, D	4MC-50	20				6
2	801-200	7-001	BEAR	ING SUPPO	RT BLOO	ж				5
1	211-000	9-025	BEAR	ING, BALL	6202-2	रऽ				4
2	211-008	8-001	LOCK	WASHER W	-02					3
2	211-008	001 0 000	LUCK	NUI, N-02	2					2
 any.	PARE NU	MBER	5003	, wu x J2	, ma	A DESCRIPTION				
					PARTS U	51				
REACE	TREATMENT	EXCEPT AS	NOTED:					AMB * *		
ſ	$\mathbf{i}$	IN INC TOLER DECIMAL	HES WCE 7,0300		HUI	INDIANA	POLIS, IN I	U.S.A.		•
at tre	ATMENT	.00. 000	7.0150 7.0050	DESCRIPTION	V 14					
(	$\mathbf{i}$	ANGULAR	7 0005 1 0730'	DIVANN	LT, M-	CHECKED		APPRO		DATE
ST 1P	DON	SHARP	DOES	J.L.W.	5-6-94	R.J.H.	5-10-94	J.L	W.	5-11-94 RFV.
		PROJEC	TION	<u> </u>	ī	001 0	~ ~~	000	1	
/	87	t∋	Ø	PC	D	001-2	uu/—L	סטי	<u>2</u>	





3/4	4″ DIA 1018	8 C.R.S.				
		ITEI	DESCRIPTION			ITEM
		PARTS L	IST			
ITED: JNS	1107700 1	HUR	CO MANUFA INDIANA	CTURING C POLIS, IN	COMPANY, INC U.S.A.	•
100 50 50 05	DESCRIPTION ADAPTE	R, XL	TO 8M	PULLE	ŕ	
•30′	J.L.W.	DATE 1-20-97	CHECKED R.J.H.	DATE 1-29-97	APPROVED	DATE
щ ма	scale 1:1 UNIT OF MEAS EA,	B	brawing 801-0	907–(	002	RE∨.

.<u>499</u> .498 DIA.



# **Control Upgrades**

# **Control Upgrades**



Matrix         Answer	No.         No. <th></th> <th>ABECHELY # 001-1013 C</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>╣┝</th> <th><math>\prod</math></th> <th></th> <th></th> <th>MAIN GAUGE ASSEMI</th> <th>ALY - REAR</th> <th></th>		ABECHELY # 001-1013 C								╣┝	$\prod$			MAIN GAUGE ASSEMI	ALY - REAR	
Matrix         Control         Control <thcontrol< th=""> <thcontrol< th=""> <thc< th=""><th>matrix         (a)         (b)         (c)         (c)</th><th></th><th></th><th>1. T.</th><th>12" R.H.</th><th>Z4"</th><th>24" R.H.</th><th></th><th></th><th></th><th></th><th></th><th>No a</th><th>1</th><th>AUTOBEND</th><th>S-5</th><th></th></thc<></thcontrol<></thcontrol<>	matrix         (a)         (b)         (c)			1. T.	12" R.H.	Z4"	24" R.H.						No a	1	AUTOBEND	S-5	
1         1	Image: bold bold bold bold bold bold bold bold	i		100	002	600	8							DRAW	NO DESCRIPTION		Tan I
I         Description         Description <thdescription< th=""> <thdesc< td=""><td>Image: constraint of the state of</td><td>ш</td><td>801-0053-001</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>12"</td><td>MATH FRA</td><td>ME - L.H. REAR</td><td></td><td>-</td></thdesc<></thdescription<>	Image: constraint of the state of	ш	801-0053-001										12"	MATH FRA	ME - L.H. REAR		-
I         I	I         I <thi< th="">         I         <thi< th=""> <thi< th=""></thi<></thi<></thi<>	ы	801-0053-002	$\square$	-				$\rightarrow$	_}	-		12"	MAIN FRA	HE - R.H. REAR		
i         i	I         I	ш	801-0048-001	_				╉	-+	$\rightarrow$	_		24"	MAIN FRA	HE - L.H. REAR		
I         I         Contractor         I         Contractor         I           1	I         Interfactor         I <thi< th="">         I         <thi< th="">         I         <thi< td=""><td>ш</td><td>801-0048-002</td><td></td><td></td><td></td><td>-</td><td>-</td><td>+</td><td>+</td><td>_</td><td></td><td>24"</td><td>MAIN FRA</td><td>ME - R.H. REAR</td><td></td><td>-</td></thi<></thi<></thi<>	ш	801-0048-002				-	-	+	+	_		24"	MAIN FRA	ME - R.H. REAR		-
I         I	I         Multication         I         I         I         I         Multication         I <thi< th="">         I         I         <thi< th=""></thi<></thi<>	-	801-0059-003	~	~			╉	+	-	4		CAR	LIAGE WAY	- 12"		~
C         C         Distribution         Distribution <thdistribution< th=""> <thdistrit< th=""> <thdistribution< td=""><td><math display="block"> \begin{array}{                                    </math></td><td>4</td><td>801-0059-00H</td><td>4</td><td></td><td>~</td><td>~</td><td>╉</td><td>-</td><td>ᅪ</td><td><math>\downarrow</math></td><td></td><td>CAR</td><td>LIAGE WAY</td><td>- 24"</td><td></td><td>•</td></thdistribution<></thdistrit<></thdistribution<>	$ \begin{array}{                                    $	4	801-0059-00H	4		~	~	╉	-	ᅪ	$\downarrow$		CAR	LIAGE WAY	- 24"		•
$ \left( \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \left  \begin{array}{c c c c c c c c c c c c c c c c c c c $	ပ	801-0062-001	-				╉	$\rightarrow$	_	$\rightarrow$	$\Box$	Ϋ́Υ	CLANP -	12"		~
$ \left[ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{                                    $	U	801-0062-002	4		н	-	-+			-		ΥV	CLANP -	24"		•
$ \begin{array}{                                    $	0         0	υ	100-8008-001				-	-	_	-	-		DRI	E YOKE			6
$ \begin{array}{                                    $	$ \begin{array}{                                    $	-	801-0056-001	-		Ч	-	-		$\rightarrow$	-		DRI	TE HOTOR	GUARD		9
1         0         000000000000000000000000000000000000	$ \begin{array}{                                    $	-	801-0058-003	-1			-	-			-			CAP			n
3         9         00:-000:-001         <	1         0	R	801-0069-001	-	ч	-					-		SPA(	ដ			2
B         00::00:00:00:         1 <th1< th=""> <th1< th="">         1         <t< td=""><td>a         b</td><td>-</td><td>801-0063-001</td><td>7</td><td>7</td><td>Ъ</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td>120</td><td>PLATE (S</td><td>TEEL)</td><td></td><td>5</td></t<></th1<></th1<>	a         b	-	801-0063-001	7	7	Ъ	-						120	PLATE (S	TEEL)		5
B         B	$ \begin{array}{                                    $	-	<b>B01-0064-001</b>	2	2	7	~		┝╼┨				Ę	PLATE (A	( HUNIHUN)		3
9         001-009-001         1 <th1< th="">         1         <th< td=""><td>I         I</td><td>-</td><td>801-0070-001</td><td>-</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>_</td><td></td><td>INS</td><td>ICH SHIEL</td><td>,</td><td></td><td>51</td></th<></th1<>	I         I	-	801-0070-001	-		-	-	-	-	-	_		INS	ICH SHIEL	,		51
B         001-009-002         1 <t< td=""><td>0         0         0         1</td><td>-</td><td>100-6600-108</td><td></td><td></td><td>~</td><td>-</td><td>-{</td><td><math>\dashv</math></td><td></td><td><math>\neg</math></td><td>_</td><td>WIRJ</td><td>ING COVER</td><td></td><td></td><td>76</td></t<>	0         0         0         1	-	100-6600-108			~	-	-{	$\dashv$		$\neg$	_	WIRJ	ING COVER			76
C         UGGE         UTAGE         A	C         C = 22-401-001         1 <th1< th=""> <th1< th="">         1         &lt;</th1<></th1<>	-	801-0099-002		Ч			-					VIR	ING COVER			17
C         US-100-001         I <thi< th="">         I         <thi< td=""><td>C         eq: 493-601-007         1         <th1< th=""> <th1< th="">         1</th1<></th1<></td><td>U</td><td>423-6012-001</td><td>-1</td><td>-</td><td></td><td></td><td>-</td><td>_</td><td></td><td>_</td><td></td><td>о Ю</td><td>E WIRING</td><td>HARNESS</td><td></td><td>18</td></thi<></thi<>	C         eq: 493-601-007         1 <th1< th=""> <th1< th="">         1</th1<></th1<>	U	423-6012-001	-1	-			-	_		_		о Ю	E WIRING	HARNESS		18
D         001-1064-001         1 <th1< th="">         1         <t< td=""><td>0         001-1000-001         <th1< th=""> <th1< th="">         1         <th< td=""><td>υ</td><td>423-6012-002</td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>GAUC</td><td>E VIRING</td><td>HARNESS</td><td></td><td>81</td></th<></th1<></th1<></td></t<></th1<>	0         001-1000-001         1 <th1< th=""> <th1< th="">         1         <th< td=""><td>υ</td><td>423-6012-002</td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>GAUC</td><td>E VIRING</td><td>HARNESS</td><td></td><td>81</td></th<></th1<></th1<>	υ	423-6012-002			-		-					GAUC	E VIRING	HARNESS		81
Image: Control         Image:	Non-state         Non-state <t< td=""><td>٥</td><td>001-1064-001</td><td>1</td><td>٦</td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td>LEAI</td><td>SCREW-D</td><td>RIVE ASSEMBLY</td><td></td><td>19</td></t<>	٥	001-1064-001	1	٦				_				LEAI	SCREW-D	RIVE ASSEMBLY		19
Image: Section of the sectin of the section of the section	Image: Control in the stand of the													DRAW	M W. C. Kuester	DATE	1/22/17
Image: Second	Image: Solution of the state of th	┝╼╋				┝┼					96		a" i			7140	
No.         No. <td>No1013         C         Sourt 2013         C</td> <td>+</td> <td></td> <td>Ι</td> <td>╈</td> <td>╇</td> <td>Τ</td> <td></td> <td></td> <td>8</td> <td>1 2249</td> <td></td> <td>4</td> <td></td> <td>J. Nance</td> <td></td> <td>10/28/77</td>	No1013         C         Sourt 2013         C	+		Ι	╈	╇	Τ			8	1 2249		4		J. Nance		10/28/77
PAT-1/NA         PAT-1         LI3 - MMC         MAIN GAUCE ASSEMILY - REAR           Ref         NO1-1013         ACC         MAIN GAUCE ASSEMILY - REAR           Ref         NO1-1013         Coll         No1         No1         No1           D         OQ1-1054-001         I <t< td=""><td>NT - 1/N         ATT - 1 - 1         ATT - 1         AT</td><td>╉┥</td><td></td><td></td><td></td><td>╉</td><td></td><td></td><td></td><td>2</td><td>Z36</td><td></td><td></td><td>ı</td><td>001-1013</td><td>U</td><td></td></t<>	NT - 1/N         ATT - 1 - 1         ATT - 1         AT	╉┥				╉				2	Z36			ı	001-1013	U	
Notion:         Number of the second of	Name         Name <th< th=""><th>15 [</th><th>N/1-1</th><th>] _</th><th></th><th></th><th></th><th></th><th>Ş</th><th></th><th>8</th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	15 [	N/1-1	] _					Ş		8						
E         001-1013         12,1         2,1*         1,2,*         2,1*         1,2,*         2,1*         1,2,*         2,1*         1,2,*         2,1*         1,2,*<	L         OOL-IOL3         L         J27         J27 </td <td>ğ</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ī</td>	ğ				1			2								Ī
Processor         Designed bit         Designed bit <td>Mark         Mark         <th< td=""><td><b>u</b>  </td><td>001-1013 1 C</td><td>12"</td><td>12"</td><td>24:</td><td>24"</td><td></td><td></td><td></td><td></td><td></td><td>Ĭ</td><td>E E</td><td>IN CAUGE ASSEMBL</td><td>- REAR</td><td></td></th<></td>	Mark         Mark <th< td=""><td><b>u</b>  </td><td>001-1013 1 C</td><td>12"</td><td>12"</td><td>24:</td><td>24"</td><td></td><td></td><td></td><td></td><td></td><td>Ĭ</td><td>E E</td><td>IN CAUGE ASSEMBL</td><td>- REAR</td><td></td></th<>	<b>u</b>	001-1013 1 C	12"	12"	24:	24"						Ĭ	E E	IN CAUGE ASSEMBL	- REAR	
D       001-1064-007       1 <t< td=""><td>D         OOD-1064-007         I         <thi< th="">         I         <thi< th="">         I         <thi< th="">         I         <thi<< td=""><td></td><td></td><td>.H</td><td>R.H. 002</td><td>.H.J</td><td><u>R. H.</u></td><td>╋</td><td>┿╴</td><td>╋</td><td>_</td><td>L</td><td></td><td>DAAU</td><td>AUTOBEND 5-</td><td></td><td>1764</td></thi<<></thi<></thi<></thi<></td></t<>	D         OOD-1064-007         I <thi< th="">         I         <thi< th="">         I         <thi< th="">         I         <thi<< td=""><td></td><td></td><td>.H</td><td>R.H. 002</td><td>.H.J</td><td><u>R. H.</u></td><td>╋</td><td>┿╴</td><td>╋</td><td>_</td><td>L</td><td></td><td>DAAU</td><td>AUTOBEND 5-</td><td></td><td>1764</td></thi<<></thi<></thi<></thi<>			.H	R.H. 002	.H.J	<u>R. H.</u>	╋	┿╴	╋	_	L		DAAU	AUTOBEND 5-		1764
C       00-1037-001       1 <td< td=""><td>C         0000-1032-001         &lt;</td><td>6</td><td>001-1064-002</td><td></td><td></td><td>-</td><td>-</td><td>┢╴</td><td></td><td>]_</td><td>-</td><td></td><td>Ē</td><td>SCREW-D</td><td>RIVE ASSEMBLY</td><td></td><td>61</td></td<>	C         0000-1032-001         <	6	001-1064-002			-	-	┢╴		]_	-		Ē	SCREW-D	RIVE ASSEMBLY		61
0       001-1067-001       1 <t< td=""><td>0       001-1087-001       <t< td=""><td></td><td>001-1032-001</td><td></td><td><u> </u></td><td>-</td><td></td><td>┠─</td><td>┢─</td><td>┢</td><td></td><td></td><td></td><td>SUCON-</td><td>R ACCEMBLY</td><td></td><td>8</td></t<></td></t<>	0       001-1087-001       1 <t< td=""><td></td><td>001-1032-001</td><td></td><td><u> </u></td><td>-</td><td></td><td>┠─</td><td>┢─</td><td>┢</td><td></td><td></td><td></td><td>SUCON-</td><td>R ACCEMBLY</td><td></td><td>8</td></t<>		001-1032-001		<u> </u>	-		┠─	┢─	┢				SUCON-	R ACCEMBLY		8
D       001-103-001       1 <td< td=""><td>00-1039-001       <td< td=""><td></td><td>001-1062-001</td><td>-</td><td>-</td><td></td><td>-</td><td>┢</td><td>╂─</td><td>┣—</td><td>_</td><td>L</td><td>C R</td><td>ALAGE ASS</td><td>EMBLY</td><td></td><td>7</td></td<></td></td<>	00-1039-001       1 <td< td=""><td></td><td>001-1062-001</td><td>-</td><td>-</td><td></td><td>-</td><td>┢</td><td>╂─</td><td>┣—</td><td>_</td><td>L</td><td>C R</td><td>ALAGE ASS</td><td>EMBLY</td><td></td><td>7</td></td<>		001-1062-001	-	-		-	┢	╂─	┣—	_	L	C R	ALAGE ASS	EMBLY		7
D         001-103#-002         1         1         1         1         1         1         1         1         1         1         2           101-0003-003         6         6         6         6         6         7         7         24         24           101-0003-003         6         6         6         6         7         7         24         24           101-0005-004         4         4         7         74-20         74" LG. S.H.C.S.         25           101-0047-006         1         1         1         1         1         2	D         001-103#-073         1 <t< td=""><td></td><td>100-1034-001</td><td>-</td><td>ŀ</td><td>-</td><td>1</td><td>┢</td><td></td><td>┢</td><td></td><td></td><td>VER.</td><td>rical gau</td><td>GE SUPPORT ASSEM</td><td>81.7</td><td>22</td></t<>		100-1034-001	-	ŀ	-	1	┢		┢			VER.	rical gau	GE SUPPORT ASSEM	81.7	22
101-0003-003         6         6         6         6         6         6         6         6         6         6         7         7         7         7           101-0005-004         4         4         4         4         4         4         5         1         1         1         2           101-0005-004         4         4         4         4         1         1         1         2         2           102-0005-004         4         4         4         1         1         1         2         2           102-0005-004         4         4         1         1         1         1         2	101-0003-003         6         6         6         6         6         6         6         6         6         6         7         7         7         7           101-0005-000         1         1         1         1         1         1         1         2         2           101-0005-000         1         1         1         1         1         1         1         2         2           101-0005-000         1         1         1         1         1         1         1         2         2           102-0005-000         1         1         1         1         1         1         1         2	6	001-103#-002		7		-						VER	FICAL GAU	GE SUPPORT ASSEM	81.7	22
101-0005-004       4       4       4       4       4       4       4       4       4       4       4       23         101-0005-004       1       1       1       1       1       1       1       1       26         102-0005-004       1       1       1       1       1       1       1       26         102-0005-004       1       1       1       1       1       1       1       26         102-0005-004       5       5       6       6       2	101-0005-004         1 <t< td=""><td></td><td>E00-E000-101</td><td>ø</td><td>ø</td><td>9</td><td>ø</td><td></td><td></td><td></td><td></td><td></td><td><b>1</b>8-</td><td>32 X 1/2"</td><td>LG. S.H.C.S.</td><td></td><td>34</td></t<>		E00-E000-101	ø	ø	9	ø						<b>1</b> 8-	32 X 1/2"	LG. S.H.C.S.		34
101-0007-008       1       1       1       1       1       1       1       1       1       1       1       1       2         102-0005-004       u       u       u       u       u       u       1       1       1       1       2       2         102-0005-004       u       u       u       u       u       u       u       1       1       1       1       2	101-0047-006       1 <t< td=""><td>Τ</td><td>101-0005-004</td><td>3</td><td>3</td><td>#</td><td>#</td><td>-</td><td></td><td>-</td><td>-</td><td>_</td><td>1</td><td>-20 X 3/4</td><td>" LG. S.H.C.S.</td><td></td><td>\$</td></t<>	Τ	101-0005-004	3	3	#	#	-		-	-	_	1	-20 X 3/4	" LG. S.H.C.S.		\$
102-0005-004       4       4       4       4       4       4       5       2 <t< td=""><td>102-0005-004       u       u       u       u       u       u       u       u       u       z         102-0005-004       5       5       6       8       1       z       z       z       z       z         102-0007-004       5       5       6       8       1       z       z       z       z       z         102-0007-004       2       2       2       3/4-16       X       X       LG. F.M.S.C.S.       z       z         102-0007-005       u       u       u       u       u       u       u       z</td><td>Τ</td><td>101-0047-008</td><td></td><td></td><td>-</td><td>-</td><td>-</td><td>┛</td><td></td><td></td><td><math>\square</math></td><td>1,8,</td><td>-16 X 1 3</td><td>/4" LG. S.H.C.S.</td><td></td><td>36</td></t<>	102-0005-004       u       u       u       u       u       u       u       u       u       z         102-0005-004       5       5       6       8       1       z       z       z       z       z         102-0007-004       5       5       6       8       1       z       z       z       z       z         102-0007-004       2       2       2       3/4-16       X       X       LG. F.M.S.C.S.       z       z         102-0007-005       u       u       u       u       u       u       u       z	Τ	101-0047-008			-	-	-	┛			$\square$	1,8,	-16 X 1 3	/4" LG. S.H.C.S.		36
102-0006-004       5       5       8       8       6       5/16-18 X 1" LG. F.M.S.C.S.       29         102-0007-004       2       2       2       2       2       2       2       29         102-0007-004       2       2       2       2       1       1       1       29       29         102-0007-005       4       4       4       4       4       23       378-16 X 1 1/4" LG. F.M.S.C.S.       30         102-0002-002       4 <td>102-0006-004       5       5       6       6       5/16-16       X.1" LG. F.H.S.C.S.       29         102-0007-004       2       2       2       2       2       2       2       29         102-0007-005       4       4       4       6       7       3/8-16       X.1" LG. F.H.S.C.S.       39         102-0007-005       4       4       6       7       3/8-16       X.1" LG. F.H.S.C.S.       30         102-0002-001       1       1       1       1       1       1       3       3/8-16       X.1" LG. F.H.S.C.S.       30         200-0002-002       4       4       4       4       4       4       4       3       3         200-0002-001       1       1       1       1       1       3       3       3       3       3         200-0002-002       4       4       4       4       6       6       6       3       3       3         406-5001-005       4       4       4       4       4       4       4       4       4       3       3         106-5001-005       3       3       3       3       3       3       3<td>Τ</td><td>102-0005-004</td><td>-</td><td>-</td><td>Ŧ</td><td>=</td><td>-+</td><td>-+</td><td>-+</td><td>_</td><td>_</td><td>カイ</td><td>-20 X 3/4</td><td>" LG. F.H.S.C.S</td><td></td><td>3</td></td>	102-0006-004       5       5       6       6       5/16-16       X.1" LG. F.H.S.C.S.       29         102-0007-004       2       2       2       2       2       2       2       29         102-0007-005       4       4       4       6       7       3/8-16       X.1" LG. F.H.S.C.S.       39         102-0007-005       4       4       6       7       3/8-16       X.1" LG. F.H.S.C.S.       30         102-0002-001       1       1       1       1       1       1       3       3/8-16       X.1" LG. F.H.S.C.S.       30         200-0002-002       4       4       4       4       4       4       4       3       3         200-0002-001       1       1       1       1       1       3       3       3       3       3         200-0002-002       4       4       4       4       6       6       6       3       3       3         406-5001-005       4       4       4       4       4       4       4       4       4       3       3         106-5001-005       3       3       3       3       3       3       3 <td>Τ</td> <td>102-0005-004</td> <td>-</td> <td>-</td> <td>Ŧ</td> <td>=</td> <td>-+</td> <td>-+</td> <td>-+</td> <td>_</td> <td>_</td> <td>カイ</td> <td>-20 X 3/4</td> <td>" LG. F.H.S.C.S</td> <td></td> <td>3</td>	Τ	102-0005-004	-	-	Ŧ	=	-+	-+	-+	_	_	カイ	-20 X 3/4	" LG. F.H.S.C.S		3
102-0007-004       2       3 <t< td=""><td>102-0007-004       2       3       <t< td=""><td>T</td><td>102-0006-004</td><td>~</td><td>5</td><td></td><td></td><td>╉</td><td>╉</td><td>╉</td><td>┛</td><td>_</td><td>512</td><td>-18 X 1.</td><td>LG. F.H.S.C.S.</td><td></td><td>8</td></t<></td></t<>	102-0007-004       2       3 <t< td=""><td>T</td><td>102-0006-004</td><td>~</td><td>5</td><td></td><td></td><td>╉</td><td>╉</td><td>╉</td><td>┛</td><td>_</td><td>512</td><td>-18 X 1.</td><td>LG. F.H.S.C.S.</td><td></td><td>8</td></t<>	T	102-0006-004	~	5			╉	╉	╉	┛	_	512	-18 X 1.	LG. F.H.S.C.S.		8
102-0007-005       u <t< td=""><td>102-0007-005       u       <t< td=""><td>T</td><td>102-0007-004</td><td>~</td><td>~</td><td>7</td><td>7</td><td>+</td><td>+</td><td>╉</td><td>_</td><td></td><td>2</td><td>-16 X 1"</td><td>LG. F.H.S.C.S.</td><td></td><td>8</td></t<></td></t<>	102-0007-005       u <t< td=""><td>T</td><td>102-0007-004</td><td>~</td><td>~</td><td>7</td><td>7</td><td>+</td><td>+</td><td>╉</td><td>_</td><td></td><td>2</td><td>-16 X 1"</td><td>LG. F.H.S.C.S.</td><td></td><td>8</td></t<>	T	102-0007-004	~	~	7	7	+	+	╉	_		2	-16 X 1"	LG. F.H.S.C.S.		8
108-0002-002       4 <t< td=""><td>108-0002-002       u       <t< td=""><td>Τ</td><td>102-0007-005</td><td>-</td><td>#</td><td>2</td><td>3</td><td>╉</td><td>+</td><td>-</td><td>+</td><td>_</td><td>3/8</td><td>-16 X 1 1</td><td>/4" LG. F.H.S.C</td><td>.s.</td><td>8</td></t<></td></t<>	108-0002-002       u <t< td=""><td>Τ</td><td>102-0007-005</td><td>-</td><td>#</td><td>2</td><td>3</td><td>╉</td><td>+</td><td>-</td><td>+</td><td>_</td><td>3/8</td><td>-16 X 1 1</td><td>/4" LG. F.H.S.C</td><td>.s.</td><td>8</td></t<>	Τ	102-0007-005	-	#	2	3	╉	+	-	+	_	3/8	-16 X 1 1	/4" LG. F.H.S.C	.s.	8
204-0002-001       1 <t< td=""><td>204-0002-001       <t< td=""><td>T</td><td>108-0002-002</td><td>-</td><td>3</td><td>#</td><td>3</td><td>╉</td><td>╉</td><td>╉</td><td>+</td><td>_</td><td>9</td><td>32 X 3/8"</td><td>LG. B.H.S.C.S.</td><td></td><td><b>#</b></td></t<></td></t<>	204-0002-001       1 <t< td=""><td>T</td><td>108-0002-002</td><td>-</td><td>3</td><td>#</td><td>3</td><td>╉</td><td>╉</td><td>╉</td><td>+</td><td>_</td><td>9</td><td>32 X 3/8"</td><td>LG. B.H.S.C.S.</td><td></td><td><b>#</b></td></t<>	T	108-0002-002	-	3	#	3	╉	╉	╉	+	_	9	32 X 3/8"	LG. B.H.S.C.S.		<b>#</b>
406-5001-002       4       6       6       6       6       6       7       1       1       3 <t< td=""><td>uo6-5001-002       u       <thu< th=""> <t></t></thu<></td><td>T</td><td>204-0002-001</td><td>-</td><td></td><td>-</td><td></td><td></td><td>╉</td><td></td><td>+-</td><td></td><td>Ĩ</td><td>ING BELT</td><td>- BROWNING ALLOX</td><td>1037</td><td><b>;</b> ;</td></t<>	uo6-5001-002       u <thu< th=""> <t></t></thu<>	T	204-0002-001	-		-			╉		+-		Ĩ	ING BELT	- BROWNING ALLOX	1037	<b>;</b> ;
406-5001-006     4     0     0     0     0     0     0       408-7501-018     3     3     3     3     3     3     3     3     3       408-7501-018     3     3     3     3     3     3     3     3       408-7501-018     3     1     1     1     1     1     1     3       110-0002-003     1     1     1     1     1     1     3       117-0002-016     6     6     8     8     8     3       110-0002-013     6     6     8     8     1     3	406-5001-006       4       6       6       6       6       6       6       7       11       11       12       13         110-0002-003       1 <t< td=""><td>T</td><td>406-5001-002</td><td>3</td><td>=</td><td>3,</td><td><b>=</b></td><td>╋</td><td>╋</td><td>╉</td><td>╇</td><td></td><td>CABI</td><td></td><td>ANDUIT - PANDUIT</td><td>TALSER</td><td></td></t<>	T	406-5001-002	3	=	3,	<b>=</b>	╋	╋	╉	╇		CABI		ANDUIT - PANDUIT	TALSER	
408-7501-018     3     3     3     3     3     3     3       110-0002-003     1     1     1     1     1     1     3/8     NON. I.D. FLAT WASHER     36       117-0002-016     6     6     8     8     1     1     1     37       117-0002-015     6     6     8     8     1     1     37       110-0002-015     6     6     8     8     1     37	408-7501-018     3     3     3     3     3     3     3       110-0002-003     1     1     1     1     1     1     37       117-0002-016     6     6     8     8     1     37       110-0042-003     6     6     8     8     38       110-0042-003     6     6     8     8     38	Γ	406-5001-006	* _ ^	•	•	0 7	╀	╋	╇	╞				TTICE 110000		2
117-0002-016     6     6     8     8     37       110-0042-003     6     6     8     8     1     1	117-0002-016     6     6     8     8     10     37       110-0042-003     6     6     8     8     1     1     38		110-000-003	~ ~	2 ~	- I		┼╴	┼─	╉	-	1_		NOW	D. FLAT VASHER		95
110-0042-003     6     6     8     8     1     1     1     1     1     38       1	110-0042-003     6     6     8     8     1     1     1     1     1		117-0002-016	• •	0			┼─	┼─	╉─	╀─			32 JAH NU			5
			110-0042-003	0	9	80							#8	LOCK WASH	ER		38
		F		Ľ	F	$\mathbf{F}$				$\mathbf{F}$	Į	F		DAAM	· · · · · · · · · · · ·	T A D	

		<u>г.н</u>	R.H.	<u>р.н</u> .	R.H.							DELI	AUTOBEND S-5	
		- 001	002	003	004								DRAWING BESCRIPTION	1764
	408-7501-002	2	2	3	з						11	FFT	CLAHP #105	
	108-0003-001	1	1	1	1							-32	X 1/4" B.H.S.C.S.	40
	101-0001-003	6	6	6	6					 		-40	X 1/2" LG. S.H.C.S.	41
	703-1001-028	1	1	1	1						NA	ME	PLATE	42
	119-0004-001	2	2	2	2					 		4 0	DRIVE SCREW	43
1														
-										 -				
			<u> </u>											
				-						 ┞				
•			+	╂─		┨──	-							
			1	1						 L				
						┢──	┼──			 ╀				
										 T				
•						╂		<b>}</b>		╀				
•				+	1			1		 t				
			T			$\prod$							CHECKED BY W. C. Kuester O	ATE 4/22/77
	── <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	╺┼╂╼	╶╂╼┥	┝╼╋		╈		-1	╏───				APPROVED BY J. Nance	ATE 10/28/77
_			T			井							SIZE ASSEMBLY NU	NEV. CHIT 3
									ECN	þ	DATE	BY	E 001-1013	<u> </u>

B	drawing	REV.	Information contained Disclosure of this info Ti	) Herein is th Rmation shal He prior wri	PROPRIETARY I HE PROPERTY OF HURC L BE MADE BY THE RE TTEN CONSENT OF HUR	NFORMATION 10 MANUFACTURING ( 12 CIPIENT TO ANY OTH 12 MANUFACTURING	COMPANY, INC. NO REPR HER PERSON OR ORGANI COMPANY, INC.	RODUCTION OR IZATION WITHOUT													
	T1 T2	M1 M2					$\frac{4.5"}{3.5"}$		5		6				J9 =  10	9 10 M1 RE M2 BI T1 BI T2 W	ED LACK LUE HITE				
											[	2 4	106-080	01-034	CONT	ACTS, FEMALE	TERMI	INAL, AM	IP #606194		10
												1 4	406-080	01-031	CONN.	, AMP SOCKE	T 1-4-	-80318-	-0		9
												2 4	106-080	1–005	PINS,	MALE TERMIN	IAL MOL	LEX #15	60		8
												1 4	406-080	01–021	CONN.	, PLUG #1625	5-22	CKT.			7
												10" 4	06-200	5-022	WIRE,	18 A.W.G. RE	D				6
												10" 4	06-200	5-020	WIRE,	18 A.W.G. BL	ACK				5
												4.0" 4	106-648	81-005	HEATS	SHRINK, 3/8"	BLACK	<u> </u>			4
												11"   4	06-200	5-029	WIRE,	18 A.W.G. WH					3
											ŀ		106-200	026	WIRE,	18 A.W.G. BL	UE				2
												4 4	+00-700	006	IEKMI	NAL KING					1
													PART NU	MBER			ITEM	DESCRIPTION	1		ITEM
														EXCEPT AS ALL DIMEN IN INCI TOLERA DECIMAL .0 .00 000 .000	NDTED: NSIONS HES NCE ?.0300 ?.0150 ?.0050 7.0005	DESCRIPTION	HURC	TOR /T	ACTURING CON APOLIS, IN U.S	IPANY, INC 5.a. BLE	
											+		J	ANGULAR S BREAK	ALL					PPROVED	DATE
			ĺ									FIRST USED	ON	Sharp e Third a	DGES NGLE	SCALE SIZ	-4-91 E [		11-4-91	SHT.	REV.
AB1	24			F 11550 Rev P.I.N. NO.	REDRAWN O	N CAD REVISION DE	SCRIPTION	RE	DATE CHK DATI	E APPD DA	ATE DF	001-112 001-103	26-004 32-003			UNIT OF MEAS. EA.	Βŀ	423-	0047-0	01 0F 1	





- 1) LABEL HARNESS WITH PART NUMBER AND REVISION.
- 2) SOLDER ITEM 6 TO SHIELD
- 3) CIRCUIT I.D. SHOWN IS WIRE

C B A	12980 12683	RELEASE									BEND 7	PROJEC		NONE $C$ 423-0202-007 0F
C B	12980	REVERSED FINS Z & S	N	1 -		-			-					
C	-	DEVEDSED DING 2 % 3	J.,	v 1/2	⁺ B	- 1%	<u>ه</u>   ۲۳	1/2	10	FIRST U	ED ON	THIRD	ANGLE	SCALE SIZE DRAWING SHT.
_	13135	RETURNED PINS 2 & 3 TO ORIGINAL LOCATION	JN	v 🖌	B		<sup>2</sup> J		:	1 '	¥	BREAK	ALL	KLP 5/10/93 DAB 5/11/93 DAB
D	13990	REVERSED PINS 2 & 3	JN	V 97	14 M	<mark>ء</mark> ر	14			l r	$\sim$		2.0005	HARNESS, AB7 TO AB4 ENCODER
										HEAT TH	EATMENT	00.	7.0150	DESCRIPTION
											$\checkmark$	TOLER/	ANCE	INDIANAPOLIS, IN U.S.A.
			-	+	+	+	+	┢	+				ENSIONS	HURCO MANUFACTURING COMPANY, INC.
					Т	1	<b>—</b>	Т		SURFAC	TREATMENT			
										QTY.	PART N	UMBER		ITEM DESCRIPTION
											406-080	03-666		G, 9 POSITION AMP 20/439-1
										6 PC	406-75	01-011	SOCK	KET, 24/20 AWG CRIMP
										2"	406-648	81–005	HEAT	SHRINK, 3/8" DIA. BLACK
		THE VIEW OF CONNECTOR.								6"	406-124	44–002	CABL	E, 22 AWG 3 PAIR SHIELDED
										1 PC	406-080	01-004	RECE	PTACLE, 6 POSITION MOLEX 03-06-1061
(	DFI	TEM 4, COVER WITH ITEM 7.								4"	406-168	89–010	WIRE	, 20 AWG BLACK
		IDEN AND INEVISION.								2"	406-648	81–002	HEAT	SHRINK, 1/8" DIA. BLACK
		ARER AND REVISION								6 PC	406-080	01-006	PIN,	FEMALE MOLEX



- 1) LABEL HARNESS WITH PART NUMBER AND REVISION.
- 2) SOLDER ITEM 6 TO SHIEL
- 3) CIRCUIT I.D. SHOWN FROM

D OF ITEM A COVER WITH ITEM 7										1 P	20	406-080	03-099		6 POSTI		207152-	1		5
$D \cup \Box \Box \Box \Box v = +,  \Box \cup v \Box ( + v v \Box ( + v v \Box v + v ) ) $										6"	, T	406-124	4_002							
WIRE ENTRY SIDE OF CONNECTOR										<u> </u>	,							,		- <del>-</del>
												400-048	61-005	HEAT	SHRINK, 3		. BLACK			
										12 F	PC	406-750	01–011	SOCK	ET, 24/20	AWG CF	RIMP			2
										1 P	>C	406-080	3–666	PLUG	, 9 POSITI	ON AMP	207439-	1		1
										QTY	<i>r</i> .	PART NU	IMBER			ITEN	DESCRIPTION			ITEM
											Γ					PARTS LI	ST			
										SURF/			Except as All Dime	s noted: Ensions Ches	11012(e)e	HURCO MANUFACTURING COMPANY, INC.				
											(	$\checkmark$	TOLERANCE DECIMAL			•	INDIAN	APOLIS, IN U	.S.A.	
										HEAT	TREA	TMENT	.00 7.0150		DESCRIPTION					
											$\cap$		0000	2.0005	HARNES	S, AB7	TO AB5	ENCOD	ER	
С	13135	RETURNED PINS 4 & 6 TO ORIGINAL LOCATION	Jw	8/3 94	B <sub>E</sub>	6/3 94					1	)	BREAK	ALL	drawn KLP	DATE 5/10/93	CHECKED DAB	DATE 5/11/93	DAB	DATE 6/1/93
В	12980	REVERSED PINS 4 & 6	Jw	1/24 94	BE	1/25 94	<sup>J</sup> w	1/28 94		FIRST USED		DON	THIRD	ANGLE	SCALE	SIZE	DRAWING		SHT.	REV.
A	12683	RELEASE											PROJEC				123_0	1202-0		
REV	P.I.N. NO.	REVISION DESCRIPTION	RFY	DATE	먮	DATE	APPD BY	DATE	DF		TOF	BEND / 1+		$\oplus$	PC		420-0	1202-0	<sup>00</sup> [ <sup>°</sup> 1	

2" 406-6481-002 HEAT SHRINK, 1/8" DIA. BLACK

4" 406-1689-010 WIRE, 20 AWG BLACK

7

6



- 1) LABEL HARNESS WITH PART NUMBER AND REVISION.
- 2) SOLDER ITEM 6 TO SHIELD OF ITEM 4, COVER WITH ITEM 7.
- 3) CIRCUIT I.D. SHOWN FROM WIRE ENTRY SIDE OF CONNECTOR.

			_		-	_						
Γ										SURFACE TREATMENT	EXCEPT AS NOTED:	
Γ											ALL DIMENSIONS IN INCHES	
Γ											DECIMAL	
Γ										HEAT TREATMENT	.0 ?.0300 .00 ?.0150	DES
Γ											000 70050	H/
Γ											ANGULAR 9 0230 BREAK ALL	DRA
E	3 12980	REVERSED PINS 4 & 6	Jw	1/25 94	BE	1/25 94				FIRST USED ON	THIRD ANGLE	SCA
	12922	RELEASE										
R	V P.I.N. NO.	REVISION DESCRIPTION	骽	DATE	앲	DATE	APPC BY	DATE	DF	AUTOBEND /	t⊒ �	UNI

2"

4"

1

6"

2"

12

1 QTY.

	406-6481-002 HEAT SHRINK, 1/8" DIA. BLACK													
	406-1688-010 WIRE, 22 AWG BLACK													
406-0803-100 CONN, RECEPTACLE HSG, 6 PIN AMP #207153-1														
	406-1244-002 CABLE, 22 AWG 3 PAIR SHIELDED													
	406-648	1-005	HEAT	SHRINK, 3	3/8" DIA	. BLACK			3					
	406-750	1-020	CONT	ACT, CPC	PIN, 24-	-20 AWG	TIN AMP	<b>#</b> 66102—7	2					
	406-0803-670 CONN, RECEPTACLE HSG, 9 PIN AMP #207440-1													
	PART NUMBER ITEM DESCRIPTION													
PARTS LIST														
E (		EXCEPT AS ALL DIME IN INC TOLER DECIMAL	S NOTED: INSIONS CHES ANCE	HURCO	HUI	RCO MANUF/ INDIAN/	ACTURING CO Apolis, in u	MPANY, INC. I.S.A.						
		.00 7.0150 000 7.0050 0000 2.0005 ANGULAR 2 0230		DESCRIPTION HARNESS, AB5 TO 9 PIN ENCODER ADAP										
		BREAK SHARP	ALL EDGES	JLW	11-15-93	DAB	11-16-93	TJW 1	12-7-93					
รเ ว	BEND 7	THIRD / PROJEC		NONE		drawing 423-(	)202-0	09 0F 1	REV.					



- 1) LABEL HARNESS
- 2) SOLDER ITEM 6
- 3) CIRCUIT I.D. SHO

										6	406-080	01-146	TERM	IINAL, TIN MALE MOLEX #02-06-2101	8			
WITH PART NUMBER AND REVISION.										2"	406-648	81-002	HEAT	AT SHRINK, 1/8" DIA. BLACK				
										4"	406-168	88–010	WIRE	, 22 AWG BLACK	6			
I	U SH	HELD OF HEM 4, COVER WITH HEM /	· •							1	406-080	01–003	PLUG	6 PIN, MOLEX #03-06-2061	5			
0	IN IS	WIRE ENTRY VIEW OF CONNECTOR								6"	406-124	44-002	CABL	E, 22 AWG 3 PAIR SHIELDED	4			
own is while littly view of connector.										2"	406-648	06–6481–005 HEAT SHRINK, 3/8" DIA. BLACK			3			
										6	406-750	01–020	CONT	ACT, CPC PIN, 24-20 AWG TIN AMP #66102-7	2			
										1	406-080	03–670	CON	N, RECEPTACLE HSG, 9 PIN AMP #207440-1	1			
										QTY.	PART N	UMBER		ITEM DESCRIPTION	ITEM			
	_													PARTS LIST				
										SURFACE		EXCEPT A ALL DIME IN IN TOLER DECIMAL	s noted; Ensions Ches Ance	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.				
										HEAT TRE	ATMENT	00	7.0300 7.0150	DESCRIPTION				
										l r	$\checkmark$		2.0005	HARNESS, AB4 TO 9 PIN ENCODER ADAF	'TER			
										_ ·	Ŭ	BREAK	< ALL EDGES	JLW 11/15/93 DAB 11/16/93 TJW 12	⊪ –7–93			
IR	112080	REVERSED PINS 2 & 3	1 Jw	1/2	'  <sup>B</sup> E	1/2	\$	1	1	FIRST US	ed on	THIRD	ANGLE	SCALE SIZE DRAWING SHT. RE	.v.			
Ľ	12300			-		-	_	-	-	-		DDA IF	OTION					
A	12922	RELEASE									RFND 7	PROJE		NONE $(1 + 23 - 0202 - 010)$				


8	Х	1 1/2	2 X 1	1/2	1020	H.R.	ANG	LE	-
				ITEM DESC	RIPTION				ITEM
			PART	s list					
red: NS		1017.eKo	•	HURCO N	IANUFACT NDIANAPC	URING C DLIS, IN	OMPAN U.S.A.	Y, INC.	
50	DE	SCRIPTION							
50 05	B	RACKE	T, S4	· "UPC	GRADE	KIT"	LIMIT	SWI	ТСН
'30' S	DR L	.L.W.	DATE 11-4-	-91 CHEC	KED I J.H. 1	DATE 1-5-91	APPRO	VED	DATE
	SC. UN	ale 1=1 it of meas PC	s B	B B B B B B B	1—08	03–(	002	сянт. 1 ог 1	REV.

size C	DRAWING     SHT. 1     REV     PROPRIETARY INFORMATION       801-0803-003     0F 1     Information contained herein is the property of hurco manufacturing company, inc. No reproduction or Disclosure of this information shall be made by the recipient to any other person or organization without the prior written consent of hurco manufacturing company, inc.		
	12 GA. (.109)	2.75 2.12 .06 R. TYP. 2.93	
		B         1         801-0803-803         12         GA         (.109)         X         3.2         X         3.9         LG.         1018         C.R.S.           QTY.         PART NUMBER         ITEM DESCRIPTION	— ITEM
		PARTS LIST       SURFACE TREATMENT       BLACK OXIDE       BLACK OXIDE       HEAT TREATMENT       CONTROL       CONTROL	
CN AB267	B 11914 ADDED MAT'L SIZE IN DESCRIPTION	Ju       12/13       0000       2.0005       BRACKET, S5       UPGRADE KIT       (R.H.) LIMIT SWIT         Ju       12/13       FIRST USED ON       BRAK ALL       DATE       CHECKED       DATE       APPROVED       DATE         Ju       12/13       FIRST USED ON       THIRD ANGLE       SCALE       SCALE       SCALE       DRAWNING       DATE       APPROVED       DATE       APPROVED       DATE         VI       12/13       FIRST USED ON       THIRD ANGLE       SCALE       SCALE       DRAWNING       SHT.       REV.         VI       11-05-91       R.J.H.       11-06-91       OO1-1501-007       PC       BO1-0803-003       OI       OI	ICH E 7.



3.2	X 3.9 LO	G. 1018	C.R.S.			-
	ITE	M DESCRIPTIC	N			ITEM
	PARTS L	IST				
HURCO	HU	RCO MANU INDIAI	FACTURING C NAPOLIS, IN 1	OMPAN U.S.A.	Y, INC.	
RIPTION ACKET	, S5 "L	JPGRADE	KIT" (L.F	1.) LI	MIT S	witch
N L.W.	DATE 11-05-91	R.J.H.	DATE 11-06-91	APPRO	VED	DATE
e =1 of meas PC	SIZE	BRAWING	0803-0	004	SHT. 1 OF 1	REV.



IDIANAPOLIS, IN U.S.A.										
S5	"UPGRA	DE	KIT"							
œ⊅ J.H.	DATE 3-2-92	APPRO	VED	DATE						
ng 1—0	854-0	002	shī. 1 0F1	Rev.						

-

ITEM



	2	605-500	1-006	SPRIN	IG WASHER	:, 1/2 <b>" I</b>	BELLEVILLE				18
	2	110-004	2-008	LOCK	WASHER, 3	/8" SPL	IT				17
											16
	1	101-000	7-006	SHCS	SHCS, 3/8"-16 X 1 1/4 LG						15
	1	101-000	9-007	SHCS	, 1/2"-13	X 1 1/2	2 LG				14
	1	801-014	6-001	LOCK	SHAFT						13
	1	813-012	4-001	HAND	WHEEL						12
	2	103-516	5-021	SHSS	,MBX 1.	25 P X	10 LG CC	ONE PT.			11
	1	211-702	7-002	BEAR	ING-OILITE	AA628-	-7				10
	1	813-501	2-001	CAP							9
	2	211-120	2-008	THRU	ST, RACE-	TORRING	TON TR				8
	1	813-507	9-001	ROD,	15 1/4" G	AUGE B	AR SUPPO	)RT			7
	1	813-501	1-001	SCRE	SCREW, ADJUSTING						6
	2	101-000	7-005	SHCS, 3/8"-16 X 1					5		
	-	801-014	5-001	BLOC	BLOCK, GAUGE BAR SUPPORT, L.H.					4	
	1	801-014	5-002	BLOCK, GAUGE BAR SUPPORT, R.H.						3	
	2	813-508	3-001	ROD,	, SUPPORT					2	
	2	102-000	7-004	FHSC	s, 3/8°-10	3 X 1					1
۲.	OTY.	PART NU	MBER			פוו	M DESCRIPTION				ITEM
4	003					PARTS LI	ST				
		PT AS NOTED L CORNERS MUST BE S FOLLOWS	Except as All Dime IN INC TOLERA DECIMAL	s noted NSIONS HES ANCE	1410 <u>1866</u> 0	HUR	CO MANUFA INDIANA	CTURING CO POLIS, IN 1	DMPAN U.S.A.	IY, INC	6
nt ノ	AT 050" X 45" 0R 0 ,05" R MAX .00 OUTSIDE:			± 0300 ±.0150 ±.0050 ±.0005 ± 0°30	DESCRIPTION ASS'Y, V DRAWN DRA	/ERTIC/ date b-25-94	AL SUPP CHECKED JLW	ORT   DATE   8-26-94	APPROV		DATE 9-14-94
-0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $						D				



1/2-13	15
SHER, 1/2 NOM ID	14
UPPORT STOCK BEARING	13
MRC B538ZZ	12
-13 X 1 3/4" LG	11
OILITE AA-306-6 3/4" LG	10
OILITE AA-306-7 1/2" LG	9
PIN, TYPE 24 .312 DIA X 3" LG.	8
STOCK SUPPORT	7
OILITE AA630-11 X 1/2" LG.	6
THRUST 3/8" ID	5
WIVEL PAD	4
, STOCK MOUNTING	3
1/4" DIA	2
M	1
ITEM DESCRIPTION	ITEM
PARTS LIST	
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
RIPTION	
SY, STOCK SUPPORT	
$\begin{array}{c c} RANG & G/28/79 \\ G.B. \\ G.G.G.G.G.G.G.G.$	7/79
E SIZE DRAWING SHT. RE	ZV.
OF MEAS. C 001-1146-001 0F	Ľ



#14 UNTIL ITEM #2 IS AR WITH DATUM —A— .010. EMS 2, 3, 4, 6, 7, 3 WITH NOOK BEARING R EQUIV. BEFORE ASSEMBLY.	
IN, 1/4" DIA X 3/4" LG	15
X 0.8P X 10 LG. DOG PT.	14
	13
INGER ADJUSTING	12
, M6 X 1.0P	11
X 1.0P X 12 LG. CUP PT.	10
OCKET	9
	8
.850 DIA X .081 WIRE X .75 LG.	
18 Y 1 25D Y 10 LC	5
	4
A10 LOCKING	3
	2
	1
ITEM DESCRIPTION	ITEM
PARTS LIST	
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
SEMBLY, ADJUSTABLE       PIVOT       FINGER         VN       DATE       CHECKED       DATE       APPROVED       D         L.W.       1/10/92       R.J.H.       1/14/92       D.D.C.       2         E       SIZE       DRAWING       SHT.       R         OF MEAS       C       001-1425-004       0F       1	ate -5-92 ev.



				•						
1	801-078	<b>19-00</b>	BRAC	RACKET, GAUGE BAR						18
2	801-066	0-001	T-NU	T-NUT						17
2	101-501	0-007	SHCS	, M8 X 1.2	25P x 2	5 LG.				16
-	901-008	2-003	TUBE.	VERTICAL	ADJUST.	(24")				15
1	901-008	2-002	TUBE,	VERTICAL	ADJUST	(18")				14
1	801-072	23-001	BRAC	KET, VERTIG	CAL (RIG	;HT)				13
-	801-072	2-001	BRAC	KET, VERTIG	CAL (LEF	·T)				12
2	603-052	1-006	HAND	LE, ADJUST	r. M10 >	< 50 LG.				11
1	801-075	8-001	BAR,	LOWER CL	AMP					10
1	101-501	0-002	SHCS	, M8 X 1.	25P X 1	2 LG.				9
1	110-500	1-005	WASH	ER, FLAT M	18					8
1	801-063	9-002	SCRE	W ADJUSTIN	١G					7
10	605-007	'1–003	SPRIN	IG, COMPR	ESSION					6
1	801-078	8-002	BAR,	BAR, UPPER CLAMP					5	
2	101-501	0-010	SHCS	SHCS, M8 X 1.25P X 40 LG.					4	
2	211-120	2-008	THRU	THRUST RACE - TORRINGTON TRB-815					3	
2	103-516	65-021	SHSS, M8 X 1.25P X 10 LG. CONE POINT					2		
1	813-012	24-001	HANDWHEEL					1		
QTY.	PART NU	MBER	ITEM DESCRIPTION					NEM		
-001					PARTS LI	st				
		EXCEPT AU ALL DIME IN IN TOLER DECIMAL O	s noted: Insions Ines Ance 7 0300		HUI	RCO MANUFA INDIANA	cturing c Polis, in	OMPAN U.S.A.	IY, INC.	,
		00, 000, 0000,	7.0150 7.0050 7.0005	DESCRIPTION ASSEMBL	_Y, SUF	PPORT (	/ERTICA	LMT	IG.)	
			ALL	J.L.W.	DATE 08/02/91	R.J.H.	08/05/91	D.C	).C.	DATE 8/28/91
IRST USE 101 - 1	95 ON 451 – 001	THIRD	ANGLE	scale 1=1 unit_of_meas	<sup>SIZE</sup>	DRAIMING 001-	 1452	001 002 003	SHT. 1 0F 4	REV.
S8   []			¥	PC	L		_	004	니그	





1	813-0124-001 HANDWHEEL									20
2	103-516	65-021	SHSS	, M8 X 1.	.25 P X	10 LG CC	NE PT			19
2	211-120	2-008	THRU	ST RACE-	TORRING	ON TRB-8	315			18
1	604-082	1-007	CLAM	P, BALL E	EARING	SWIVEL PAI	2			17
2	101-501	0-010	SHCS	, M8 X 1	.25 P X	40 LG				16
1	801-078	8-002	BAR,	UPPER C	AMP					15
10	605-007	1-003	SPRIN	IG, COMPF	RESSION					14
1	801-078	39-001	BRAC	KET, GAUC	e bar					13
1	801-063	9-002	SCRE	W, ADJUSI	ING					12
1	110-500	1-005	WASH	ER, FLAT	M8					11
1	101-501	0-002	SHCS	, M8 X 1	25 P X	12 LG				10
1	801-078	8-001	BAR,	LOWER C	LAMP					9
0	901-0082-003 TUBE			BE, VERTICAL ADJUST 24"					8	
0	901-0082-002 TUBE			IE, VERTICAL ADJUST 18"					7	
1	901-0082-001 TUBE			, VERTICAL	. ADJUST	11"				6
1	603-0521-006 HAND			LE, ADJUS	ST M10 X	50 LG				5
0	801-064	2-004	BRAC	KET, HORIZONTAL, RIGHT					4	
1	801-064	2-003	BRAC	KET, HORIZONTAL, LEFT					3	
2	101-501	0–007	SHCS	G, M8 X 1 25 P X 25 LG					2	
1	801-066	60-001	T-NU	т						1
QTY.	PART NU	MBER		ITEM DESCRIPTION					ITEM	
001					PARTS L	ST				
ARFACE		EXCEPT AU All Dime In Inc Toler Decimal	s noted: Insions Ihes Ance		+U	RCO MANUFA INDIANA	cturing c Polis, in	OMPAN U.S.A.	IY, INC	k Ng
eat the		.00 .000 .0000 .0000 ANGULAR BREAK	7.0050 7.0050 7.0055 7.0055 7.00530	DESCRIPTION ASS'Y, DRAWN			)RT		WED	DATE
RST USE 01-1- 01-1- 01-1-	10 0N 426-001 450-001 451-001	SHARP THIRD PROJE	EDGES ANGLE CTION	GLH SCALE 1=1 UNIT OF MEAS PC	<sup>8-16-91</sup> size	DRAWING 001-1	17-91 486->	(XX	ус янт. <u>1</u> ог.1	8-28-91 REV.

### (1) 001 & 002 ARE 11" VERTICAL ADJUST TUBES 003 & 004 ARE 18" VERTICAL ADJUST TUBES 005 & 006 ARE 24" VERTICAL ADJUST TUBES



	1
ERMINE At AssiY.	
	1
	]
	1
	1
	1
PIN GMM DIAX 30 MM LG.	7
G POINT SOL SET SCZ. 1/2-13 × 98 LG.	5
ING COLLAR 5. Max3516.	4
6 = 2-226 NEOPRENE - Support Tube	2
ITEM DESCRIPTION PARTS LIST	ITEM
HURCO MANUFACTURING COMPANY, I MICO INDIANAPOLIS, IN U.S.A.	NC.

DESCRIPTION CILIDE ASSY. AUTO BEND DRAWN L.NANCE D-2-86 SCALE JUNITOF MEAS E DOL-1496-001 OF B



# 1. ITEM 7 INSERTED FROM TOP, SCREW IN BOTTOM.

### 3. DRESS WIRES OF ITEM 1 SO FULL TRAVEL CAN BE

# 4. USE ITEM 17 FOR ASSY OF ITEMS 1, 11, 12 & 13.

6. PACK IN SEALED BUBBLE PACK BAG FOR PROTECTION

TUATOR, MAGNETIC	REF
CLIP, RETAINER RING, 5/16"	19
TSERT, M5	18
RINK WRAP, 3/16" BLACK	17
RD CLIP, ADHESIVE BACKED	16
JMB SCREW, 10-32 X 1/2"	15
RAIN RELIEF BUSHING	14
BLE, 2 COND. 22 AWG	13
SISTOR, 1.21K 1/4W 1%	12
D, 1mA RED DIFFUSED, T1-3/4	11
NS, LED MOUNTING .25" MNT. HOLE	10
CLOSURE, RETRACT ADJ. MOUNTING	9
RING, 7/16" O.D. X 1-7/8" L, .035 WIRE DIA	8
DE POST, 3/16" X 2-1/2"	7
5CS, M3 X 10	6
T, ELASTIC LOCKING, 5/16"	5
JMB SCREW, 5/16" X 3"	4
BLE TIE	3
R, RETRACT ADJUST	2
ITCH, MAGNETIC	1
ITEM DESCRIPTION	ІТЕМ
PARTS LIST	
ED: NS HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION ASSY, RETRACT @ PINCHPOINT	
SU DRAWN DATE CHECKED DATE APPROVED D/ A.E.T. 17AUG92 A.E.T. 04SEP92	ATE
= SCALE SIZE DRAWING SHT. RI N/A B 001-1529-003 OF 1 FA	EV.



NT	CHART
	PAINT COLOR
02	AUTOBEND CREAM 701-0001-058
02	MHP LIGHT GRAY 701-0001-048
02	HURCO BLACK 701-0001-074



Æ



- IN SECTIONS TO BE APPLIED TO UNFINISHED AREAS OF THE

1.2'	.7'	.2'	703-000	3-009	TAPE, WARNING STRIPE	4
-	-	۱	801-065	4-805	EXTRUSION, 114" ALUMINUM GAUGE BAR	3
1	-	-	801-065	4-801	EXTRUSION, 90" ALUMINUM GAUGE BAR	2
"A"	"A"	"A"	801-065	4-000	EXTRUSION, ALUMINUM GAUGE BAR	1
٥ΤΥ.	άтγ.	aty.	PART NU	MBER	ITEM DESCRIPTION	тем
-003	-002	-001			PARTS LIST	
	$\sim$	DI	CEPT AS NOTED: LL DIMENSIONS IN INCHES TOLERANCE COMAL	)#LØJ;	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT T			9 0300			
١,			000 7.0150 000 7.0150 000 7.0050	DESCRIPT	TION GE BAR, STD. "Y" SECTION S6/S7	
- 1		L A	1 2,0300 10 7,0150 100 7,0030 1000 7,0005 100LAR 1 0730 100LAR 1 0730 100LAR 1 0730 100LAR 1 0730	DESCRIPT. GAUG DRAWN JLW	TION GE BAR, STD. "Y" SECTION S6/S7 DATE CHECKED DATE APPROVED N 8-16-96 RJH 8-20-96	DATE



AB748

1.) WHEN MACHINING SURFACE -A- SHIM UNDER CLAMPS. 5.) WHEN GAUGE BAR IS CLAMPED AT SURFACE -B-, SURFACE -A- TO BE PERPENDICULAR TO TABLE WITHIN .005.

2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         -         801-0654           -         -         -         801-0654           -         -         -         801-0654           -         -         -         801-0654           -         -         -         801-0654           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -         -         -         -           -	4-000 MBER EUJS DESCRIPTIC GAUG BROWN GALH STALE	EXTRUSION, ALUMINUM GAUGE BAR ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. INDIANAPOLIS, IN U.S.A.	1 тем те -1—92
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         -         801-0654           -         -         1         801-0654           -         -         -         0.027           -         -         -         0.027           -         -         0.027         -           -         -         0.027         -           -         -         0.027         -           -         -         0.027         -           -         -         0.027         -           -         -         0.027         0.0207	4-000 MBER EUJE DESCRIPTIC GAUG	EXTRUSION, ALUMINUM GAUGE BAR ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. INDIANAPOLIS, IN U.S.A. INDIANAPOLIS, IN U.S.A.	1 тем
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         1         801-0654           -         -         2.027         -026	4-000 MBER HUI:	EXTRUSION, ALUMINUM GAUGE BAR ITEM DESCRIPTION PARTS LIST HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	1 тем
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           "A"         "A"         -         801-0654           "QTY.         QTY.         QTY.         PART NAME           -028         -027         -026         -	4—000 MBER	EXTRUSION, ALUMINUM GAUGE BAR mem description parts list	1 тем
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           "A"         "A"         -         801-0654           017.         017.         017.         РМТ МАНВ	4-000 MBER	EXTRUSION, ALUMINUM GAUGE BAR	1 1
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654           "A"         "A"         -         801-0654	4-000	EXTRUSION, ALUMINUM GAUGE BAR	1
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3.7'         2.8'         2.8'         703-0003           -         -         -         801-0654           -         -         1         801-0654	4 000		_
2         2         2         614-0002           1         1         1         614-0002-           1         1         1         614-0002-           3.7'         2.8'         2.8'         703-0003-	4-801	EXTRUSION, 90° ALUMINUM GAUGE BAR	2
2         2         2         614-0002           1         1         1         614-0002           1         1         1         614-0002           3         7'         2.8'         703-0003	4-805	EXTRUSION 114" ALLIMINUM GAUGE BAR	+
2         2         2         614-0002           1         1         1         614-0002	2-044	TADE WARNING STRIDE	5
2 2 2 614-0002	2-042	CART BRD, 54 1/8 X 144 350# DW	6
	2-051	CARDBOARD SPACER, 6" GAUGE BAR	7
2 2 2 614-0002-	2–045	WRAP COLLAR, 26 3/16 X 6 350# D.W.	8
2 2 2 614-0002-	2-046	END CAP & FILLER, 33 X 17 5/8 350#	9

