

MFG: CATCO, INC.
NAME: TOMMY THE KANGARO

Type: KIDPIE

Tommy the Kangaroo

CATCO, INC.

Designers & Builders of Amusement Rides

8615 Nundy Avenue
Gibson, Florida 33534

Diane Johnson
Exclusive Sales for CATCO, Inc.
1015 East Brandon Blvd.

Winter 813-685-2569
Summer 910-579-2011

Tommy the Kangaroo

Trailer Specifications

1. All Electric Brake
2. Tandem Axle
3. Ball Hitch 2 5/16" / Pindie Hook / Fifth Wheel Hook-Up
4. 24' Length, 12'6" High, 8' Wide
5. All D.O.T. Lighting
6. Leveling cranker on 4 corners
7. Designed to pull doubles

Tommy the Kangaroo

Specifications

1. Theme Painted Figures
2. Theme Painted Front
3. All Aluminum Fencing
4. All Aluminum Platforms
5. All Electric/National Code Wiring
6. Trailer to D.O.T. Specifications

Serial #_____Year_____

Capacity_____R.P.M._____

Tommy the Kangaroo

Electric Supply

1. 220 Single Phase
2. 30 amp Main/W/Brand Circuit Breakers
3. 100' Type So Lead Wire
4. Invertal Type Control
5. Auto Timer
6. National Code Wiring

Set Up Time

1. 2 Men Approximately 1 Hour

Tommy the Kangaroo

Set Up Procedure

Space Required 35' Dim. 14' High

1. Level Trailer using Proper Blocking.
2. Level Floor Runners using Proper Blocking.
3. Lower Platform.
4. Lower Track and Pin Down.
5. Set Tubs to Outside of Platform and Remove Racking.
6. Install Sweeps. Make Secure Key Pins and use a Light Grease on Pins.
7. When Installing the Last Sweep, Raise up Height to Install the Last Pin.
8. Install Tubs on Sweep. Make sure to Tighten Main Bolt using a Lock Washer.
9. Install All Fence/Ramps/Light Poles/Gates.
10. Install Bally Cloths.
11. Hook up Electric. Make sure that All Switches are Off.
12. Re-Check all of the Ride.
13. Make sure that All Racking is Clear.
14. Turn Ride On and Check.

Tommy the Kangaroo

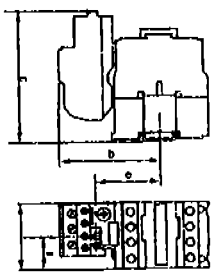
Daily Check List of Ride

1. Check All Pins/Nuts/Bolts and Safety Keys
2. Check All Safety Straps.
3. Check All Safety Signs are in order.
4. Check All Blocking.
5. Check All Track Tie Downs.
6. Check All Electric COntrols.
7. Turn Ride on and Run.
8. Check Speed.
9. Check that All Moving Parts are Working Smoothly.
10. Check All Wheels for Wear and that All Bolts & Nuts are Tight.
11. Check All Lighting.

Tommy the Kangaroo

Operations

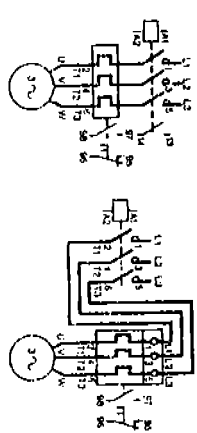
1. No Smoking
No Carry on Items
No Bare Feet or Flip Flops
No Food or Drink
2. Handicapped Children under Special Consideration
3. No Adults
4. All Warning Signs visible to Patrons



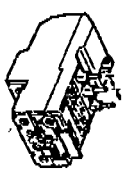


[illegible]

AWG 16 = 1,31 mm ²	AWG 10 = 5,26 mm ²
AWG 14 = 2,08 mm ²	AWG 8 = 8,37 mm ²
AWG 12 = 3,31 mm ²	AWG 6 = 13,3 mm ²

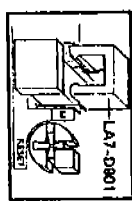


L2c D1			
1	D09	D25	D32
LC 2	D12		
	D18		
c	100	110	111
b	81	86	89
e	50	55	55
s	44	54.7	52.1
	16.7	27.4	24.8
1	D09	D25	D32
LP 2	D12		
	D18		
c	135	194	155
b	81	86	86
e	50	55	55
s	44	54.7	52.1
	16.7	27.4	24.8

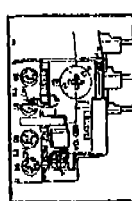


LC/LP
D32
D25
D18
D09
D12 }

Réglage du relais OVERLOAD ADJUSTMENT

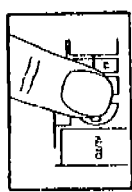


**Verrouillage Arrêt (Blocage
LA7 par capot)
SEALED STOP (LA7 BLOCKED
BY SEALING COVER)**

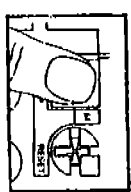


**Vornuillage du réglage
(capot plombable)
SEALED ADJUSTMENT (SEALING COVER)**

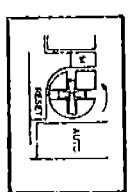
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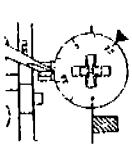
**Fonction Réarmement
RESET FUNCTION**



**Fonction Arrêt!
STOP FUNCTION**



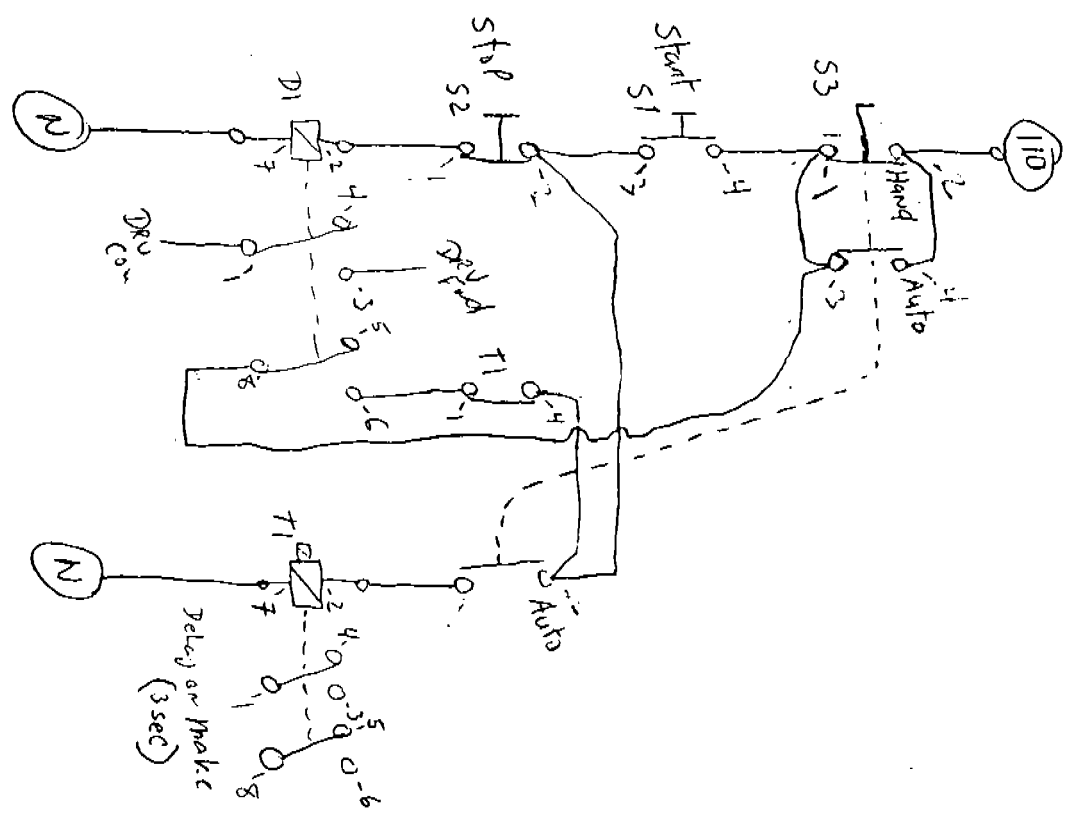
**Réarmement manuel et auto
(capot pliable)
MANUAL AUTO RESET
(SEALING COVER)**



Test du câblage du circuit de
commande
(simulation déclenchement)
CONTROL CIRCUIT TEST (TRIP TEST)
Témoin de déclenchement
TRIP BUTTON

27 $\frac{2}{2}$ 88 + 85 ✓ L 96

S1 = Start
 S2 = Stop
 S3 = H0A sw
 T1 = timer 1 = Delay on make
 OVL = Overload Relay
 DRU = GE Drive → red - THK

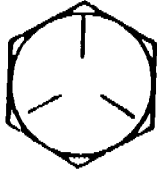
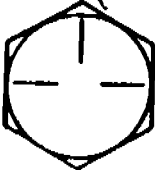
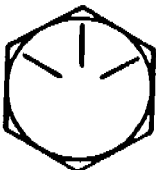
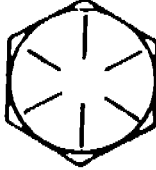
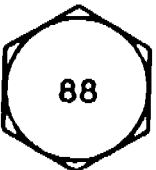
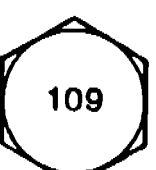


OVL
 LR2D1312-5.8-8 - Reordered - Triad-out
 1322-17-25

GRADE MARKINGS

For Functional Load Carrying Capscrews

Manufacturer's Identification symbols must be present on all capscrews.

CORRECT MARKINGS	UNACCEPTABLE MARKINGS
SAE J429 GRADE 5 MEDIUM CARBON 81,000 YIELD 	 GRADE 5.1 LOW CARBON  GRADE 5.2 LOW CARBON MARTENSITIC
ASTM A325 TYPE 1 MEDIUM CARBON LONGER SHANK & SHORTER THREAD LENGTH THAN GRADE 5 81,000 YIELD  ASTM A 325 TYPE 3 CORROSION RESISTING LONGER SHANK & SHORTER THREAD LENGTH THAN GRADE 5 81,000 YIELD 	 ASTM A325 TYPE 2 LOW CARBON MARTENSITIC
SAE J429 GRADE 8 MEDIUM CARBON 130,000 YIELD 	 ISO R898 CLASS 8.8 MEDIUM CARBON 92,000 YIELD 
ASTM A490. ALLOY STEEL LONGER SHANK & SHORTER THREAD LENGTH THAN GRADE 8 130,000 YIELD 	 ISO R 898 CLASS 10.9 ALLOY STEEL 130,000 YIELD 

Torque Chart

TORQUES FOR FUNCTIONAL LOAD CARRYING COLD FINISHED HEX HEAD CAPSCREWS WITH ROLLED THREADS, USED WITH LOCKNUTS (SEE NOTE 3), AND TIGHTENED WITH AN A325 HARDENED WASHER UNDER THE CAPSCREW OR LOCKNUT HEAD (WHICHEVER IS APPLICABLE FOR TIGHTENING).

THIS TORQUE RANGE WILL DEVELOP 60% TO 70% OF PROOF LOAD.

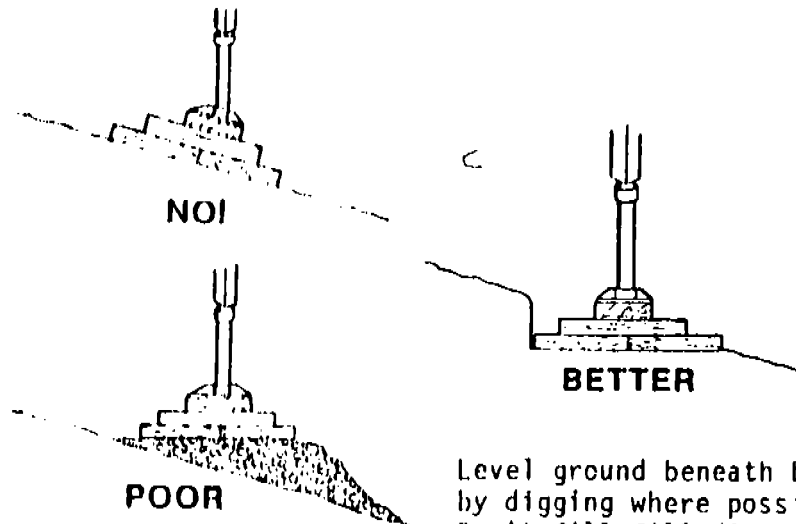
REFER TO "REPLACEMENT OF CAPSCREWS AND LOCKNUTS" FOR CONDITIONS REQUIRING REPLACEMENT.

SIZE DIAMETER - THREADS/ INCH	FOOT POUND TORQUE RANGE (SEE NOTES 1 AND 2) WITH LOCKNUT AND HARDENED WASHER	
	SAE J429 GRADE 5 ASTM A325	SAE J429 GRADE 8 ASTM A490
1/4 - 20	5-6	7-8
1/4 - 28	6-7	8-10
5/16 - 18	11-13	15-18
5/16 - 24	12-15	17-21
3/8 - 16	19-24	27-33
3/8 - 24	22-27	31-38
7/16 - 14	30-35	45-55
7/16 - 20	35-40	50-60
1/2 - 13	50-60	65-80
1/2 - 20	55-65	75-90
5/8 - 11	95-115	130-160
5/8 - 18	105-130	150-180
3/4 - 10	165-200	235-285
3/4 - 16	185-225	260-320
7/8 - 9	270-325	380-460
7/8 - 14	295-360	415-505
1 - 8	400-490	565-690
1 - 12	440-535	620-755
1-1/8 - 7	495-600	800-975
1-1/8 - 12	555-675	900-1095
1-1/4 - 7	700-850	1135-1380
1-1/4 - 12	775-940	1255-1525
1-1/2 - 6	1215-1480	1975-2395
1-1/2 - 12	1370-1660	2220-2700

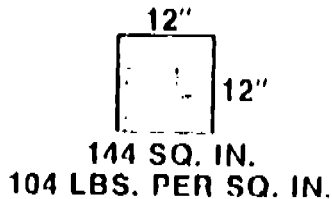
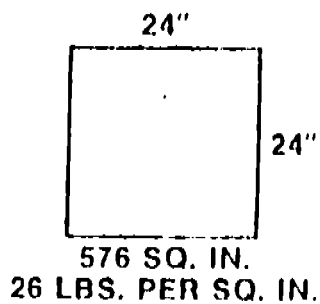
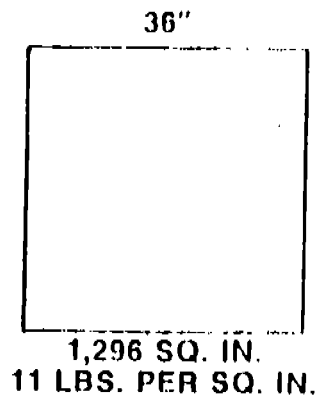
NOTES:

- USE ANTI-SEIZE LUBRICANT ON CAPSCREW SHANK WHEN TIGHTENED FROM HEAD END.
- USE 10% LESS TORQUE WHEN ANTI-SEIZE OR OTHER LUBRICANT IS USED ON THREADS.
- USE SAME TORQUE RANGE FOR HOLES TAPPED IN STEEL.

BLOCKING ON GROUND SLOPE



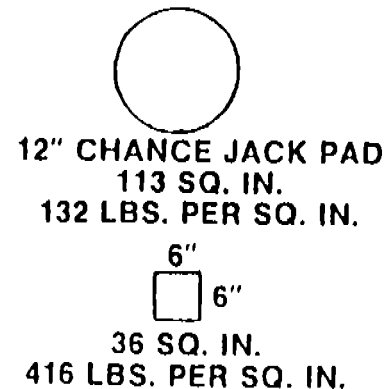
Level ground beneath blocking
by digging where possible.
Don't fill-fill dirt will be
soft and allow ride to tilt.



**AVERAGE
RIDE
WEIGHT**

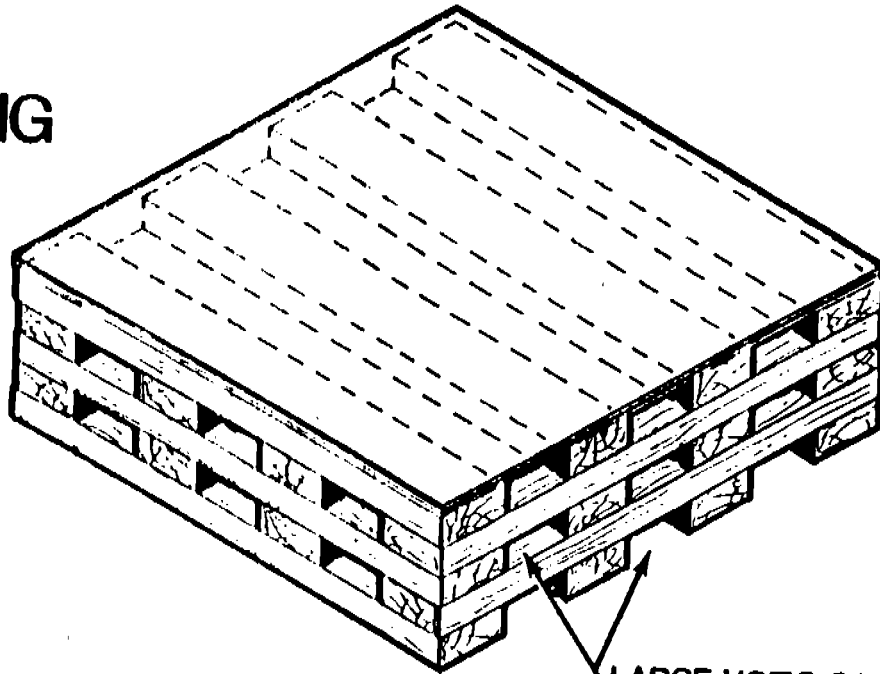
60,000 LBS.

**4 JACKS
15,000 LBS.
EACH**



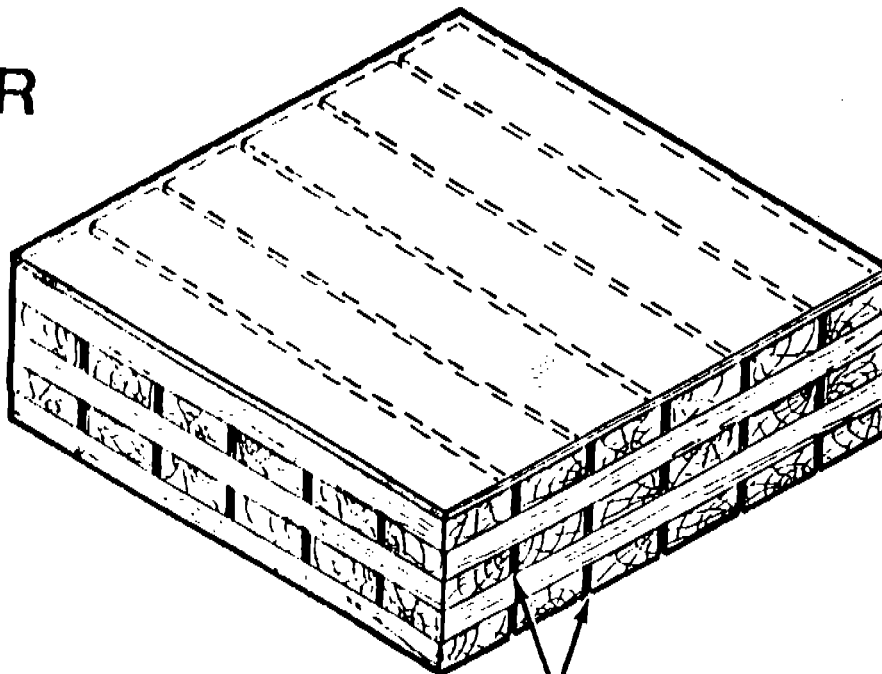
"CRIB" BLOCKING

WRONG



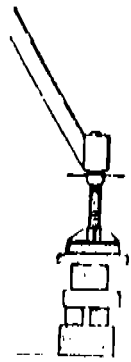
LARGE VOIDS CAN LET
BLOCKING CRUSH UNDER LOAD

BETTER

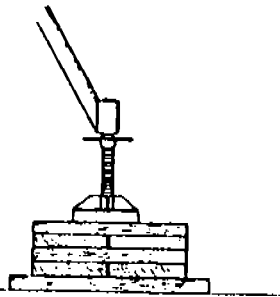


1/4" SPACES FOR DRAINAGE

ALWAYS CROSS BLOCK

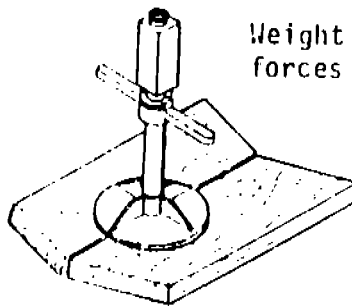
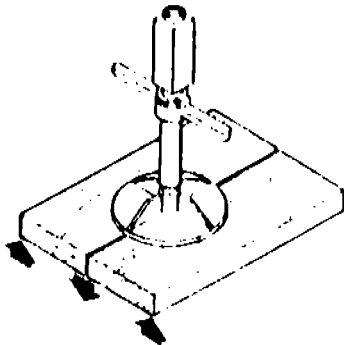


WRONG



CORRECT

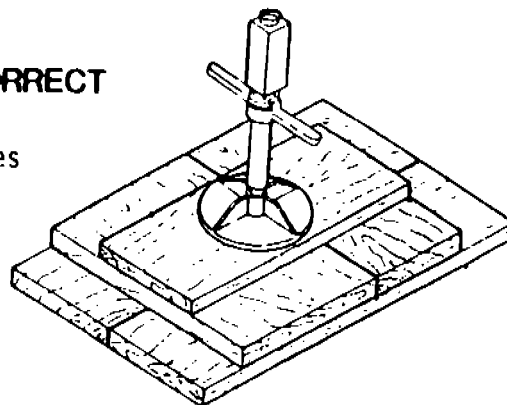
WRONG



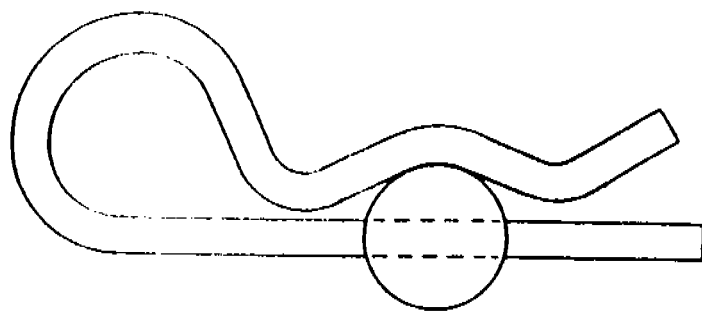
Weight on two blocks
forces down on middle.

CORRECT

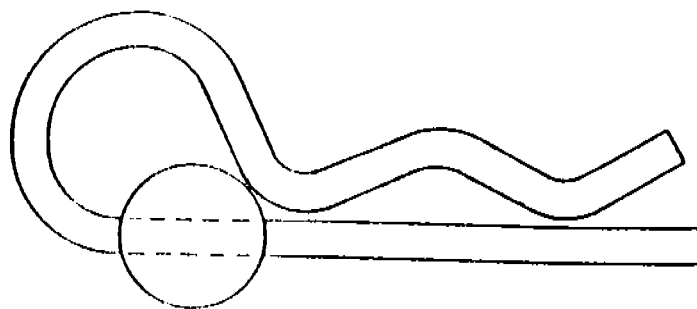
Cross blocking distributes
weight evenly.



The correct installation of a hairpin is shown below. Incorrectly installed hairpins are more likely to come off the pin, and will become distorted and "sprung" after only a few uses, requiring early replacement.

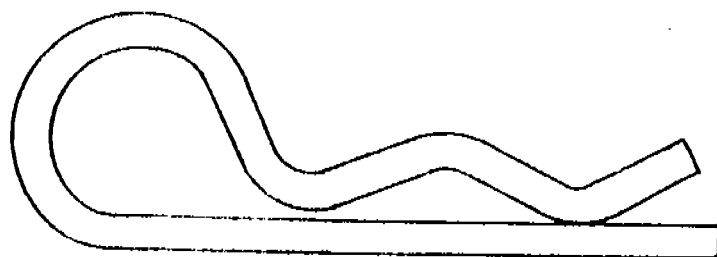


CORRECT

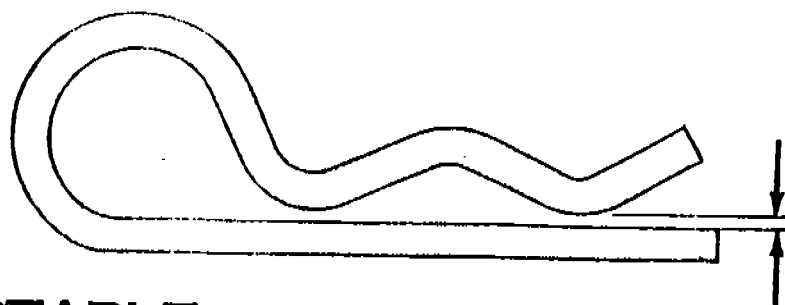


WRONG

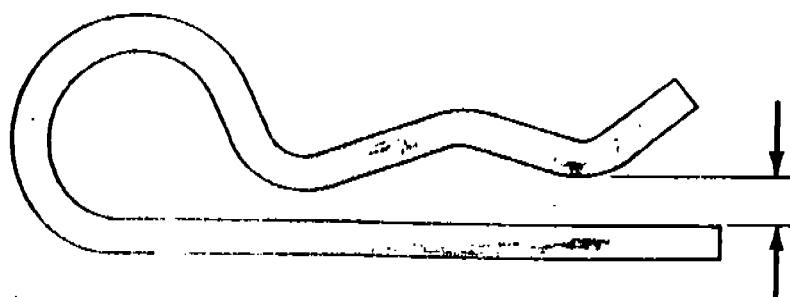
Hairpins ("R-Pins") are expendable parts. After repeated use, they become worn and "sprung" as shown in the illustrations below. Never attempt to bend a hairpin back into shape. REPLACE IT WITH A NEW PART.



NEW



ACCEPTABLE



REPLACE