DIRECTIONS for CARE and CLEANING Styles 1T and 1U

Sorts Casting Molds

STYLE IT MOLD FOR CASTING SORTS, HIGH AND LOW QUADS AND SPACES OF ANY WIDTH SET-WAYS UP TO THIRTY-SIX POINTS INCLUSIVE IN TWELVE, FOURTEEN, AND EIGHTHEN-POINT SIZES.

STYLE IU MOLD FOR CASTING SORTS HIGH AND LOW QUADS AND SPACES OF ANY WIDTH SET-WAYS UP TO THIRTY SIX POINTS INCLUSIVE IN TWINTY-FOUR, THIRTY, AND THIRTY-SIX. POINT SIZES

MONOTYPE

LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA

Directions for Care and Cleaning STYLES 1T AND 1U

SORTS CASTING MOLDS

1 The Styles 1T and 16 Mouns are furnished with three points inclusive and of any point-size-as follows

point bodies. Style III Morn for twenty-four, thirty, and thirty-

The twelve-point size in the 1T Moun is used for quads made in Sorts Marriers. Composition Marriers canequipped for casting twenty-point instead of twelve-point

CAUTIONS

2 Taking Apart: As long as the Moun produces good type let it alone. When necessary to clean the Mold do so in accordance with the following directions. 3 Assembling: Be sure parts are of same point-size.

4 Mold Blades must be inserted or removed by sliding them along the SQUARING PLATE straight to the front or rear. Never lift the rear end of the BLADES when passing

the Nick Prv. Following this caution prevents injury to the Brance or to the Nicy Dry

5 Fitting a Gate Pusher: Do not attempt to fit a GATE PUSHER. This can be done only in our factory. 6 Protect the Gate Pusher by holding it in the Capsu

7 Insert the Gate Pusher with beyeled end to the rear.

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8 A new or renaired Mold requires special attenagainst the Type Blocks while running under actual working conditions. After the Moun has run an hour, test the setting of the Cross BLOCK. If loose, readjust it. Repeat this fast after the Moun has run half a day and also a full



n assembled ready for u view from rear left corn

day. If this test be not made, the MOLD may become leaded, causing wear of the CROSS BLOCK and TYPE BLOCKs or forcing them out of alignment.

9 Screws holding left Type Block must never be loosened. This BLOCK is adjusted in our factory. 10 Alterations: Never after any part of the Mold. These parts are made by experienced workmen trained for

this special work and supplied with the finest gages and measuring instruments. When returning a Mo.D for repairs always enclose with it samples of the type it produces and a memorandum giving details of the defects.

11 Water regulation: Mo.Ds are built to use as little water as possible; use just enough to avoid bilstered bodies and bleeding feet. The water from the Mo.D should be as hot as can be borne on the hand. 12 Water passades must be kept clean. Whenever

the MOLD is taken off the machine, force all water out with the air blast and oil the water passages thoroughly by blowing oil through them.

13 Oiling: Our MOLD OILER, regulated to give a drop

13 Oiling: Our Mold Oiler, regulated to give a drop every two or three minutes, will give sufficient oiling, except for the Cross-block Coupling which must be ollectly hand.

14 Temperature: The temperature of the metal should never be over 725 degrees not cooler than 675 degrees; the larger bodies (that is, the ones requiring the most metal) take the lower temperature. This is for standard Mosorryes metal. For metals other than this.



Bottom view with Cross BLOCK partly drawn out to show

special care should be taken to obtain the proper tempera-

15 Bridge Setting; Test this setting before putting the MOLD on the MACHINE. This setting, when once made with the CARRYING-FRAME ADJUSTING GAGE, is correct for all Molps and Marrices, but make sure that no adlightly on the Mor. p without hammering it.

16 Matrix Holder containing Matrix must always be in position whether casting characters or high or low

17 First Cast: Be sure the MOLD is up against its proper bearings; turn machine over by hand to see that

18 Bodies more than twelve points in width setways require that the MOLD-BLADE-CAM-LEVER COMways the normal stroke is used.

19 Thirty-six points set-ways is the limit for

the MOLD BLADE 20 When replacing the upper Mold Blade he sure it rests flat on the lower Mold Blank at the rear. If not



FIGURE 3

MOLD BLADES and POINT BLOCK.

MOLD-BLADE SHIELD and MOLD-BLADE TOP GUIDE are

put in place.

21 Adjustment of the Front-abutment Shoe

given in the following directions (§41).

22 Bodies containing more than 144 square points.

require proportionately slower speed than 140 r.p.m.; the Puwir capacity must be increased and the CENTERING Pix must coret an extra pressure on the MATRIX (all of Matrix and provided by the Display-type Attachment). 23 The stroke of the Type Carrier must be in-

24 The display Type Channel Blocks must be used in place of the standard Type Channels Blocks.

TAKING APART: Re-read Cautions

(See the "direction arrow" on each figure)

25 Prepare a suitable place for taking the Mold apart. Spread down a clean sheet of paper and as the parts are taken off the Mold, place them on this paper. Have the

hands clean and free from particles of metal.

26 Slide the Cross Block (A) out of the Mold to the

right being careful not to drop its Gate Pusher (V).

Take out the Front-abutment Shoe (P).

27 Swing the Spring Box (M) out to the right so that it
is not operative. Remove MOLD-BLADE-LEVER FULCEUM

STUD (J); MOLD-BLADE LEVERS (K) and (L); MOLD-BLADE SHIELD (E); MOLD-BLADE STOP (G); MOLD-BLADE TOP GUIDE (G); upper MOLD BLADE (O).

88 Turn the Mol our unrighed-gars and take out one loss

28 Turn the MOLD upside-down and take out one long Screw (X) and two short Screws (Y) which hold the right Type Block (N) to the Squaring Plate (F). Turn the Mold right side up and take out two Screws (I) (one nearest the Mold Blade has a Wassier on it) which hold the right Type Block (N) to the Squaring Plate (F) in the rear. Take out the Screw (D).

the

/ID

the

(O) then

20

2

4

(S)

the

29 Sikie the lower Mold Blade (II) with the Point Block (Z) outliform the rear of the Mold. Caution: Do not lift the Blade up between the Type Blocks as this would injure the Neck Pin. Swing the left end of the right Type Block Block Did not be from an all slide it off the

SQUARING PLATE toward the right

39 Clean carefully all parts of the Mot.D which have been removed and also the parts which have been left assembled, being especialty careful to remove all particles of metal. Use a clean white cloth for this purpose. Do not use water, as this will take up which is very hard to remove. In case little particles of twisped off they must be carefully exampled off with a wooder stift to price to the carefully exampled off with a wooder stift to price to

he carefully scraped on with a wooden special phrass rule.

31 Be sure that all the corners in around the left Type
BLOCK where the MOLD BLADE works are perfectly clean.

32 Thoroughly clean the GATE PUSHER (V) and its
slot between the CROSS-ROCK GATE BLOCKS (U) and (W).

ASSEMBLING

33 Be sure all parts are clean. (Re-read the preceding directions under the heading "Cleaning".) Be sure the hands are clean and tree from particles of metal.

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with the Power BLOCK (Z) in place. CAUTION: Be careful not to damage the corners of the MOLD BLADE (II), and do not force the MOLD BLADE (III), and do not force the MOLD BLADE (IV). The MOLD BLADE (IV) in the MOLD BLOCK (IV) in the MOLD BLOCK (IV) in the bottom of the right True BLOCK (X). and (Y) in the bottom of the right True BLOCK (X) and (Y) in the bottom of the right True BLOCK (X) and (Y) in the MOLD BLOCK (X) in the MOLD BLOCK (

Scrime (D).

35 Put on the upper Mold Blade (O) being careful to get it resting properly on the lower Blade (II) at the rear. The best way to do this is to slide the upper Blade (O) in until its rear end drops into the slot in the top of the lower Blade (II). Work the Blades (II) and

36 Put on the Mold-blade Top Guide (C) and tighten its Screws. Put on the Mold-blade Store (G) making sure it is on square. Test the Bladdes; if they bind, loosen the Top Guide (G). If this does not free them, there is dirt is the Mold. If it does free them, there is dirt between the Bladdes or between the Top Bladde (G) and Types (G) a

BLOCK (B) at the left end.

37 Put on the MOLD-BLADE SHIELD (E). Test the
BLADIS again to see that they are free. Push the BLADIS
in, Put on the MOLD-BLADE LEWERS (K) and (L), having
the LRYER (K), with SPEENG BOX (M) attached, on top
(cheek LRYER will not work if in any other position).

Ap.

Insert and tighten the LEVER FULCRUM STUD (J).

38 By loosening the SCHEWS holding the right CROSS-HLOCK GATE BLOCK (W), the GATE PUSHER (V) may be adjusted. Adjust so that the PUSHER will move smoothly

adjusted. Adjust so that the Pushus will move smoothly but without looseness, and so that it will be flush with the GATH BLOCKS on the bottom edge.

39 "Make sure the CROSS BLOCK (A) (complete) and its bearings are clean. Pat the FRONT-ABUTMENT SHOW (P).

in position in the Mold and slide in the Cross Block from the right.

40 The Front-Abutment Adjusting Screws (Q) and (S) should not be loosened of their adjustment changed in any way; if, however, they become loosened so, that the

adjustment must be made proceed as follows:

4. If the CROSS_BLOCK_close not fit properly readjust to Fix CROSS_BLOCK_close not fit properly readjust to Fix CROSS_BLOCK_close for fit properly readjust to Fix CROSS_BLOCK_close for fit properly readjust to Fix CROSS_BLOCK_bldfing. Loosen the Lock_CROSS_BLOCK_bldfing. Loosen the Lock_CROSS_BLOCK_bldfing. Loosen the Lock_CROSS_BLOCK_bldfing.

and (N) until the Cross Rocca (able froly. Slike the Cross Rocca (to the In that its left end one fluid with Cross Rocca (to the In that its left end one fluid with until the Cross Rocca requires some little greener et ille interpret to dile it. Now able the Cross Rocca (to the Rocca (to the Inc.) who was the Cross Rocca (to the the Mitto and et up the right Scara (S) in the sums way. All the Mitto and et up the right Scara (S) in the sums way. Scaraws until the Cross Rocca flow are lightly, requirible in the control of the Cross Rocca (to the Cross Rocca (to the Inc.) Scaraws until the Cross Rocca (to very highly, requirible in finger to do left in Cross Rocca (to very highly, requirible it has an even heating and does not listed at any point it has an even heating and does not listed at any point it has an even heating and does not listed at any point

CHANGING MOLD BLADES

42. To change from one point-size to another require that the upper and lower MOLD BLADES (Ø) and (H) with their POINT BLOCK (Ž), the MOLD-BLADE STOP (G) MOLD-BLADE SHIELD (E), and MOLD-BLADE TOP GUIDS (G) be changed.

43. To make this change proceed as under "Taking Apart" up to the removal of the SCREWS holding the right only loosen them. Then take out the lower MOLD BLADE (H) with its Point Block. To remove any particles of dirt slide the lower MOLD BLADK of the point-size desired into position (without the POINT BLOCK) while at the same time holding the Type Block (N) up against it. Remove the MOLD BLADK, wine it clean, and replace it mick the POINT BLOCK in position. Caution: Be careful not to MOUN BLADE OVER the NICK PIN. Insert Schick (D) and bring it up to bearing, then bring SCREWS (I), (X), and (Y) up to bearing; tighten first the Scprw (D) and then the Scurws (D. (X), and (Y). Continue with \$35 under "Assembling," substituting the upper MOLD BEADS (O), the MOUD-BLADE SHIRLD (E). MOLD-BLADE TOP GUIDE (C), and MOLD-BLADE STOP (G) of the point-size to be used



Names and Symbols of Parts of the

Styles 1T and 1U Molds

This list is for all styles IT and IU Molds.

The names in the following list are alike for both IT and IU Molds but the symbols here given are for the IT Mold; when ordering a part for the IU Mold change the

MOLD; when ordering a part to the 10 MOLD change the letter T to the letter U in the symbol.

All parts which can be furnished for applying to a MOLD outside our factory are designated by an asterisk (*) preceding the symbol. (See also special note following CROSS-BLOCK COUPLING IMBET and MOLD-BLAGE

STOP 7MC1T1.)

letter T	to letter U
BASE PLATE	alMAIT.
bushing (55" long)	alMAIT:
" (%" long)	alMAIT.
BASE-PLATE FRONT ABUTMENT	2MAIT:
adjusting screw (left, blunt)2157 *	2MAIT:
" (right, pointed)2193*	2MAIT:
" lock nut (2)386*	2MA1T
screw (3)	2MAIT:
seren (o)	
BASE - PLATE - FRONT - ABUTMENT NUMBER	
PLATE	3MAIT:
screw (2)	3MA1T:
BASE - PLATE - FRONT - ABUTMENT PACKING	
BLOCK	4MA1T
	5MAIT:
BASE-PLATE-FRONT-ABUTMENT SHOE	5MAIT:
BASE-PLATE-GATE-PUSHER CAM*	6MAIT:
screw (3)	6MAIT
CROSS BLOCK	1MR1T
coupling	1MBIT:
† NOTE: If the CROSS-BLOCK COUPLING IMBIT2	
he broken this part can be replaced by returning to	us the brok
be broken this part can be replaced by returning to pieces of the Courtino, provided these broken piece	s are in su
condition that the required measurements can be of	bta ned fro
them.	

* Can be applied without

For 1U Mones change letter T to letter U.		
Cross Block (continued)	1528	Typ
coupling screw	2558	1VI
dowel (to 3MB1T1)	1248	oi
screw (to adjust 2MB1T1) 2167. * 1MB1T5	22.19	pl
seres (to anjust statisty)	100 - 51	(有数分)
CROSS-BLOCK GATE BLOCK (right)	2020	pi
screw (4)	Tal.	90
	10073	
CROSS-BLOCK GATE BLOCK (left) 3MB1T1	STATE OF THE PARTY	
oil pad (felt)* 3MB1T2	100	
screw (4)	13693	
	N.C.	
CROSS-BLOCK GATE PUSHER 4MBIT1	1004	TYP
MOLD BLADE (bottom) (give point-size) IMCITI	1500	pl
MOLD BLADE (bottom) (give point-size) 1MCIT1	1055	80
MOLD BLADE (top) (give point-size) 2MCIT1	ENG!	ni
MOLD BLADE (top) (give point-size) zaiCIII	125.00	n
MOLD-BLADE POINT BLOCK (give point-size) 5MC1T1	100	
monomenton router brock (give point-state) sincere	100	TYP
MOLD-BLADE SHIELD	1869	n
screw (2)	300	95
	10070	W
MOLD-BLADE STOP 7MC1T1	297	
screw (2)	100	Typ
1 NOTE: If the MOLD-BLADE STOP 7MC1T1 (or 7MC1UI)	1973	
be broken, this part can be replaced by returning to us the broken	1000	TYP
pieces of the Stor, provided these broken pieces are in such con- dition that the required measurements can be obtained from them.	1005	194
arout time the roduces incusarements can be obtained from them.	0.75	
MOLD-BLADE TOP GUIDE (designate point-	1240	Typ
size of MOLD BLADE) 8MC1T1	37.0	84
screw (2) 2220* 8MC1T2	1000	be
	7.00	
Mold-blade Lever (lower)* 12MC1T1	180	nl
(upper)* 12MC1T2	100	pi
spring	155	
" box* 12MC1T4	17.20	. *!

ping 12MC1T6

Moli-Blade-lever Folcrun Stud. ... 13MC1T1

Moli-Blade-lever-spring-box Plats ... 14MC1T1
screw (2) ... 247 * 14MC1T2
*Can be apolled without returning the Mol to our

factory.

	For IU Moans change letter T to letter U.
Гурп Block (large)	«IMDITI
bushing (2)	1MD1TI6
oil pad	* 1MDITE
(5)	235 + 1MDITE
pin (for 3MD1T1)	* IMDITO

| Sective (100m 94D111, \$100t) | \$1 MDD11 | \$1 (from 10MAT11, short) (2). 2162 | 1 MDD11 | \$1 (from 94D111, long) | 231 | \$1 MDD11 | \$1 (from 10MAT11, long) | 235 | \$1 MDD11 | \$1 (man 10MAT11, long) | 235 | \$1 MDD11 | \$1 man 10 man 1

 TYPE-BLOCK CLAMP BOLT.
 * 3MD1T1

 nut.
 31.* 3MD1T2

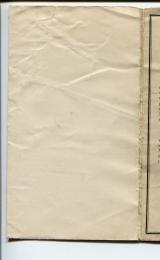
 spring
 6185.* 3MD1T3

 washer
 436.* 3MD1T4

(2) 9MDIT'0
plug screw (3) 2225 = 9MDIT'0
screw (2) (from 1MA1T1) 2161 9MDIT'0
*Can be applied without returning the Mold to our







Mold Repairs

It is not possible for operators to repair Mouns for they have neither the special tools nor the necessary training.

If any defects occur in the type produced by this Mott, this Cannot the corrected by following the directions in this folder, the complete Milds should be at one cannot be made a samples of the defective type produced to make a samples of the defective type produced to make a samples of the defective type produced to the box with the Mild and of light the sample syperse charges and parts for all point-sizes), propay express charges and avire us entine (a) point-size and number of Motap, (b) date of shipment and number (c)

IMPORTANT"

This Mold is held in its box by two Screws which pass through the bottom of the box. Preserve this box and its Screws for returning Mold. In reshipping reverse the lid; our address is printed on the under side. Do not nail the cover—tie it on.

LANSTON MONOTYPE MACHINE COMPANY