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 EIGHTEEN-POINT SIZES.

STYLE IU MOLD FÖR CASTING SORTS, HIGH AND LOW QUADS AND SPACES OF ANY WIDTH SET-WAYS UP TO THRITY-SIX POINTS INCLUSIVE IN TWENTY-FOUR, THRITY-, 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 1W Mouns are furnished with three BLAGES each for casting, as sorts, type and high and low quads and spaces of any width set-ways up to thirty-six points inclusive and of any point-size as follows: Style 1T Moan for twelve-, fourteen-, and eighteen-

Style 1U Mono for twenty-four-, thirty-, and thirty-

six-point bodies The twelve-point size in the 1T Molo is used for quads made in Sorts MATRICES. Composition MATRICES cannot be used on these Mouns. The earlier 1T Mouns were

equipped for casting twenty-point instead of twelve-point. CAUTIONS

2 Taking Apart: As long as the MOLD 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. These parts are clearly marked 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 NICE PIN. Following this caution prevents injury to the BLADES or to the NICK PIN.

5 Fitting a Cate 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 CROSS

BLOCK with the finger, while putting the CROSS BLOCK in place or taking it out. 7 Insert the Gate Pusher with beveled end to the rear.

8 A new or repaired Mold requires special attention until the Cross BLOCK has found its true bearing against the Type BLOCKS while running under actual workine conditions. After the Moup has run an hour, test the setting of the CROSS BLOCK. If loose, readjust it. Repeat this test after the MOLD has run half a day and also a full



Mold assembled ready for use. Top view from rear left corner.

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

repairs always enclose with it samples of the type it produces and a memorandum giving details of the defects.

If Water regulation: Mones are built to use as little water as possible: use just enough to avoid blistered bodies

and bleeding feet. The water from the Mot.D should be as hot as can be borne on the hand.

12 Water passages must be kept clean. Whenever the Mot.D 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 every two or three minutes, will give sufficient oiling, excent for the Censes-mock Couplings which must be oiled

by hand.

14 Temperature: The temperature of the metal abould never be over 725 degrees nor cooler than 675 degrees; the larger bodies (that is, the ones requiring fits most metal) take the lower temperature. This is for standard Monovryz metal. For metals other than this.



FIGURE 2

Bottom view with CROSS BLOCK partly drawn out to show GATS PUSHER.

special care should be taken to obtain the proper tempera-

15 Bridge Serting: Test this setting before putting the MOGROUN. This setting, when once made with the CARLYING-FRAME ADJUSTING GAGE, is correctly only MOGROUND and MATERICES, but make sure that no adjustments have worked loose and that the MATRICES bear lightly on the MOGROUND thammering.

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

17 First Cast: Be sure the Mold is up against its proper bearings; turn machine over by hand to see that everything is working properly—then start the machine,

18 Bodies more than twelve points in width setways require that the MOLD-HADB-CAM-LEVER COM-POUND LEVER be adjusted to give the increased stroke to the MOLD BLADE; for bodies twelve points, or less, setways the normal stroke is used.

19 Thirty-six points set-ways is the limit for casting type with these Mones. Do not attempt to cast a body wider than this for to do so will strain or break the Mone BLADE.

the MOLD BLADE.

20 When replacing the upper Mold Blade he sure it rests flat on the lower Mold Blade at the rear. If not in this position it will be broken or badly sprung when the



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

should never be broken. If it works loose adjust it as given in the following directions (¶41).

22 Bodies containing more than 144 square points, require proportionately slower speed than 140 · p.m.; the PUMP capacity must be increased and the CENTERING PIN must exert an extra pressure on the MATRIX (all of which are provided by the Display-type Attachment).

23 The stroke of the Type Carter must be in-

creased.

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).

right being careful not to drop its GATE PUSHER (V).

Take out the Front-abuthent Shoe (P).

27 Swing the Spring Box (M) out to the right so that it

27 Swing the Spring Box (M) out to the right so that it is not operative. Remove Mold-Blade Levers Fulchum Syud (J); Mold-Blade Levers (K) and (L); Mold-Blade Suffle (G); Mold-Blade Top Guide (C); upper Mold Blade (O).

28 Turn the Molo 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 Mouth right side up and take out two SCREWS (I) (one nearest the Molo Blade has a Washer on it) which hold the right Type BLOCK (N) to the SQUARING PLATE (F) in the rear. Take out the SCREW (D).

29 Slide the lower MOLD BLADE (H) with the POINT BLOCK (Z) out from the rear of the MOLD. CAUTION: Do not lift the BLADE up between the TYPE BLOCKS as right Type BLOCK (N) to the front and slide it off the SQUARING PLATE toward the right.

CLEANING 30 Clean carefully all parts of the Moan which have been removed and also the parts which have been left assembled, being especially careful to remove all particles of metal. Use a clean white cloth for this purpose. Do not use waste, as this will leave ligt which is very hard to remove. In case little particles of metal stick to any part of the Mono so that they cannot be wiped off they must be carefully scraped off with a wooden stick or piece of

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-BLOCK 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 free from particles of metal-

34 Slide the right Type BLOCK (N) into position putting a slight pressure on it to remove any dirt from the surfaces of the SQUARING PLATE (F). Remove the Type BLOCK (N), wipe it off and replace it, this time keeping it in position. Slide in the ower MOLD BLADE (II) from the rear without the POINT BLOCK (Z) while with the thumb and first two fingers the right Type BLOCK (N) is held so that the BLAGE (H) can just be pushed through. Mave the BLADE (H) flat down on the SQUARING PLATE and push it forward to remove any particles of dirt. Take out BLADE (H) and, while still holding the right T we BLOCK (N) in position, insert the two Scraws (I) at the-back, bringing them just up to bearing (he sure the SCREW with the WASHER is nearest the MOLD BLAOR) Wipe the lower MOLD BLADK (H) clean and slide it in from the rear

the (H)

SCRI top (O)

34 3

in. (the 30 3

4 (8) with the Point's BLOCK (Z) in place. CAUTION: Be careful not to disnage the correst of the Moun BLOK (H), and do not force fee Moun BLOK (MOUNDED), and do not force fee Moun BLOK (over the Nick Pin. Turn the Moun bottom up and insert the three Scaws (X) and (Y) in the hottom of the right Turn BLOCK (X). Thing then just not beating.

Thing then just not beating.

The Scaws (B) and bring it up to beating. Scaws (B) and bring it up to beating. Excess (B), and bring it up to beating. Tephen the five Scaws (B), and bring it up to beating. Tephen the five Scaws (B), and the five five fight Turn BLOCK (X) alternately. Tephen the

SCREW (D).

35 Put on the upper Mollo Bladde (O) being careful to get it resting properly on the lower Bladde (H) at the rear. The hest way to do this is to slide the upper Bladde (D) until its rear end drops into the slot in the top of the lower Bladde (H). Work the Bladde (I) and (O) hack and forth sevarately to be sure no diff is between

them.

36 Put on the MOLD-BLADE TOP GUIDE (C) and tighten its SCHWN. Put on the MOLD-BLADE STOP (G), making sure it is on square. Test this BLADES; if they hind, boosen the TOP CUIDE (G). If this does not tree them, there is diff in the BLADES or between the TOP BLADE and GUIDE (G) or between GUIDE (C) and TYPE BLOCK (B) at the left end.

AT PM on the MOGIDBLADE SHELD (E). Test the BLADES AGAIN to see that they are free. Push the BLADES again to see that they are free. Push the BLADES again to see that they are free. BLADES (E) and (L), having the LEYBE (K), with SPRING BOX (M) attached, on top (these LEYBES will not work if in any other position). Insert and thighten the LEYBE FULCKIM STUD (J).

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

hat without losseness, and so that it will be finsh with the GATE BLOCKS on the bottom edge.

39 Make sure the CROSS BLOCK (A) (complete) and its bearings are clean. Put the PRONY-ARUTMENT SHOP (P)

in position in the MOLD and alide in the CROSS BLOCK from the right.

40 The FRONT-ABUTMENT ADJUSTING SCREWS (Q) and

40 The PRONT-ABUTMENT ADJUSTING SCREWS (Q) and (S) should not be loosened or their adjustment changed in any way; if, however, they become loosened so that the adjustment must be made proceed as follows:

adjustment initiat be inside process as nowner.

41 If the Cross BLOCK does not fit properly readjust
the FRONT-ABUTMENT SIGN as follows: Remove the GATPUSHIER (V) so that any tightness in its action will not
interfere with the feel of the Cross BLOCK Isiding. Loosen
the Lock Nurs (R) and (T) and slack of the SCRWING (I)

the unti fing right the Afte to a SCR all this it his

all this it he Lock and Try its a (V)

(C)
4
Apa
Tvi
Inst
only
(H)
dirt
into

the Pordat Mc and (Y the "A the

and (S) until the CROSS BLOCK slides freely. Slide the CROSS BLOCK to the left so that its left end comes flush with the left side of the MOLD and set up the left SCREW (Q) until the Cross BLOCK requires some little pressure of the fingers to slide it. Now slide the CROSS BLOCK to the right until its right end comes flush with the right side of the Mond and set up the right Screw (S) in the same way. After sliding the CROSS BLOCK back and forth a few times to settle it to bearing repeat the above adjustment of the SCREWS until the CROSS BLOCK fits very tightly, requiring all the pressure the operator can bring to hear upon it with his fingers to slide it; be careful, however, to note that it has an even bearing and does not bind at any point. Lock the SCREWS (S) and (Q) with their LOCK NUTS (T) and (R), holding the Scarws to keep them from turning. Try the Cross BLOCK again to see that this has not affected its adjustment. Don't forget to replace the GATE PUSHER

CHANGING MOLD BLADES

42. To change from one point-size to another requires that the upper and lower MOLD BLANDS (O) and (1984) which their POINT BLOCK (Z), the MOLD-BLAND STOP (G), MOLD-BLAND STIPELD (E), and MOLD-BLAND TOP GUIDE (C) be changed.
43. To make this change proceed as under "Taking

Apart" up to the removal of the Screws holding the right Instead of removing these SCREWS, as described in §28, 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 BLADE 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 BLADE, wipe It clean, and replace it with the POINT BLOCK in position. CAUTION: Be careful not to damage the corners of the MOLD BLADE and never force the MOLD BLADE over the NICK PIN. Insert SCREW (D) and bring it up to bearing, then bring SCREWS (I), (X), and (Y) up to bearing; tighten first the SCREW (D) and then the SCREWS (I), (X), and (Y). Continue with \$35 under "Assembling," substituting the upper Moan Blank (O), the MOLD-BLADE SHIELD (E), MOLD-BLADE TOP GUIDE (C), and MOLD-BLADE STOP (G) of the point-size to be used for those just removed.



Names and Symbols of Parts

Styles 1T and 1U Molds

This list is for all styles 1T and 1U Molds.

The names in the following list are alike for both 1T and 1U Molds but the symbols here given are for the 1T

1U Molles but the symbols here given are for the 1T Molle; when ordering a part for the 1U Molle change the letter T to the letter U in the symbol.

All narts which can be furnished for applying to a Molle

outside our factory are designated by an asterisk of preceding the symbol. (See also special note following CROSS-BLOCK COUPLING IMBITZ and MOLD-BLADE STOP 7MCITL).

For IU MOLSS change little To letter U.

BASE PLATE	alMAITI
bushing (3/4" long)	a1MA1T2
" (Vis" long)	alMAIT3
BASE-PLATE FRONT ABUTMENT	* 2MA1T1
adjusting screw (left, blant) 2157	 2MA1T2
" (right, pointed) 2193	* 2MA1T3
" lock nut (2) 386	* 2MA1T4
screw (3)	* 2MA1T5
BASE - PLATE - FRONT - ABUTMENT NUMBER	
PLATE	3MA1T1
screw (2)	* 3MA1T2
BASE - PLATE - FRONT - ABUTMENT PACKING	
BLOCK	4MAIT1
BASE-PLATE-STROND-ARUTMENT SHOE	* SMAITI
BASE-PLATE-FRONT-ABUTMENT SHOE	- 321/4111
BASE-PLATE-GATE-PUSHER CAM	* 6MA1T1
screw (3)	* 6MA1T2
CROSS BLOCK.	1MBIT1
coupling	† 1MB1T2
† NOTE: If the CROSS-BLOCK COUPLING IMBIT.	2 (or 1MB1U2
be broken this part can be replaced by returning to	o us the broke
pieces of the Courling, provided these bruken pie	oces are in suci
them.	obia nea non

*Can be applied without returning the Mold to our

			The same of
			-
	Motos change	100	
Caoss Block (continued)	to letter U.		
			TYPE
coupling screw	1MB1T3		bus
dowel (to 3MB1T1)	1MB1T4		oil
screw (to adjust 2MB1T1)2167*	1MBIT5		et. plu
CROSS-BLOCK GATE BLOCK (right)	2MB1T1		
screw (4)	2MBIT2		pin
6/4CW (4)	ZMDIIZ		BCFC
CROSS-BLOCK GATE BLOCK (left)	3MB1T1	-	
oil pad (felt)*	3MB1T2	23	
screw (4)	3MB1T3		- 11
CROSS-BLOCK GATE PURHER	4MB1T1		Type
			plu
Molo Blade (bottom) (give point-size)	1MC1T1		acre
MOLO BLAGE (top) (give point-size)	2MC1T1		
MOLO BLADE (top) (give point-size)	2MC111		nicl
MOLO-BLAGE POINT BLOCK (give point-size)	5MCIT1	-	
Diono-minos i oniti buock (give point-me)	0.40111	- 1	Typn
MOLD-BLADE SHIELD	6MC1T1		nut
screw (2)	6MC1T2		SDE
			was
Mold-blade Stop	7MC1T1		
screw (2)			TYPE
2 Note: If the MOLD-BLADE STOP 7MC1T1 (or 7MC1U1)		-
be broken, this part can be replaced by returning to pieces of the Stop, provided these broken pieces are	us the broken		TYPE
dition that the required measurements can be obtained	of from them.		SCIC
			Typk-
MOLD-BLADE TOP GUIDE (designate point- size of MOLD BLADE)	8MCIT1		adi
size of MoLD BLADE)	8MC1T2		bus
screw (2)	831C112		
MOLD-BLADE LEVER (lower)*	12MC1T1		
(upper)*	12MC1T2		plu
spring 6152*	12MC1T3		scte
" box*	12MC1T4		* C2
" " pin	12MC1T5		factor
" " plug*	12MC1T6		

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factory.

For 1U Mouns change fetter T to letter U.

bushing (2)	1MD1T:
oil pad	1MD1T
plug screw (3)	1MDIT:
pin (for 3MD1T1)	13(1)120
screw (from 9MD1T1, short) *	IMPLE
" (from 1MA1T1, short) (2). 2162 *	1MD1T
" (from 9MD1T1, long) 231 *	IMDIT
" - (from 1MA1T1, long) 231	IMDIT
" washer (5)	IMDITI
	1MD1T1
Type Block (small)	-2MDim

TYPE BLOCK (large).

TYPE BLOCK (small)	a2MD1T
screw (from 1MA1T1) (3)	
" (from 9MD1T1, rear) 231	2MDIT
nick pin.	2MD1T
" " plug	2MD1T

nut spring		31 * 6155 * 436 *	3MD1T
TYPE-BLOCK-	CLAMP-	BOLT SCREW*	4MD1T

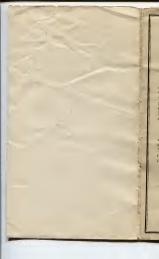
TYPE-BLOCK GATE KNOCK OFF	6MD1T1 6MD1T2
TYPE-BLOCK SQUARING PLATE	9MD1T1

adjusting screw (6)	9MD1T
bushing (34" long)	9MD1T
(½'' long)	9MD1T
	9MD1T
plug screw (3)	9MD1T
screw (2) (from 1MA1T1)	9MD1T

*Can be applied without returning the Mold to our factory.







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 Mota, that cannot be corrected by following the directions in this folder, the complete Mole should be a none returned to us with samples at the defective type; enclose these in the box with the Mole and all fits ports (be sure to include all parts for all point-sizes) point size and number of Mosay, (b) date of shipment and rotte; (c) details of tree deaths of the mole and the con-

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 PHILADELPHIA