DIRECTIONS for CARE and CLEANING

Styles 1T and 1U
(Also Styles 2T and 2U)

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 RIGHTEEN-POINT STATES

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

MONOTYPE

LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA 3, PA.

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Directions for Care and Cleaning

STYLES 1T AND 1U SORTS CASTING MOLDS

(Also for 2T and 2U Molds—sec #44 and #45)

1. The Styles 1T and 1U Motos 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 Moto for twelves, fourteens, and eighteen.

Style 1T Molo for twelve-, fourteen-, and eighteen point hodies.

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

six-point bodies.

The twelve-point size in the 1T Molo is used for quads
and spaces and for a few very extended twelve-point faces
made in Sorte MATRICES. Composition MATRICES cannot
be used on these Molos. The earlier 1T Molos were equipmed for easting twenty-point instead of twelve-point.

CAUTIONS

2 Taking Apart: As long as the Molo produces good type let it alone. When necessary to clean the Molo 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

4 Mond 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 them between the TYPE BLOCKS nor try to force them over the NICK PIN. Following this caution prevents injury to the BLADES or to the NICK PIN.

5 Fitting a Gate Pusher: Do not attempt to fit a
GATE PUSHER. This can be done only in our factory.
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 beyeled end to the

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 works ing conditions. After the Modo has run an hour, lest the setting of the Cross Block. If loos, readjust it. Repeat this test after the Modo has run half a day and also a full.



Mone assembled ready for use.

Top view from rear left corner.

day. If this test be not made, the Moto may become leaded, causing upon of the Cross BLOCK and Type

BLOCKS or forcing them out of alignment.

loosened. This BLOCK is adjusted in our factory.

10 Alterations: Never alter any part of the MOLD.
These parts are made by experienced workmen trained for
this special work and supplied with the linest gages and

messuring instruments. When returning a MOLD for repairs always enclose with it samples of the type it produces and a memorandum giving details of the defects. 11 Water regulation: Monos are built to use as little water an possible, use instruments to avoid bidstreed bodies

and bleeding feet. The water from the Monn should be as hot as can be borne on the band, about 130 degrees. 12 Water passages must be kept clean. Whenever the Monn 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, except

every two or three minutes, will give sufficient olling, except for the Caoss-m.ock Courting which must be siled by band. Use Monotype Type Mold Oil.

14 Temperature: The temperature for standard Monotype Metal should be about 725 degrees, the larger bodies (that is, the ones requiring the most metal) taking the lower temperature. For other metals suscial care should be taken to obtain the proper



Bottom view with Cross BLOCK partly drawn out to show temperature by trial, starting with a low temperature and gradually raising it until the best results are obtained. Too

high temperatures may injure MATRICES and MOLDS. 15 Reidde Serting: 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 MOLDS and MATRICES, but make sure that no adjustments have worked loose and that the Markices bear

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lightly on the Moan without hammering it. 16 Matrix Holder containing Matrix must always he in position whether casting characters or high or low

quads or spaces. 17 First Cast: Be sure the Mold is un 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-Bladk-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 MOLD BLADE.

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



FIGURE 3

Molo Blades and Point Block in this position it will be broken or badly sprung when the Molo-Blade Shield and Molo-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 (541).

22 Bodies larger than 144 square points (the size of a 12 point quasd) require proportionately slower speed than 140 n.p.m.; the Pour capacity must be increased and the Centrague of the Matrix (all of which are provided by the Display-type Attachment).

33 The stroke of the Type Carrier must be in-

creased.

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

TAKING APART: Re-read Cautions

(See the "direction arrow" on each figure)

25 Prepare a suitable place for taking the Mol.o apart. Spread down a clean sheet of paper and as the parts are taken off the Mol.o, 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 SHOK (P).

27. Swing the SPRING BOX (M) out to the right so that it is not operative. Remove Moldballon-Linwas Filterius STOD (J); Moldballon Linvers (K) and (L); Moldballon Side (M); Moldballon Side (M); Moldballon Side (G); Moldballon Side (G); Moldballon Side (G); Moldballon Side (G); Moldballon Side (M); Mold

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 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 Modo Biane (H) with the Ponty Block (Z) out from the rear of the Modo. CAUTIONIA Do not lift the Biane up between the Type Blocks as this would injure the Nick Pin, Swing the left end of the right Type Block (N) to the front and slide it off the Schmang Plane towards the right.

CLEANING 30 Clean carefully all parts of the MOLD which have

been removed and also the parts which have been left seembled, being septembled, being septembled, being septembled of the control and particles of metal. Use as total will see the feet this purpose. Do the seemble of the seemble o

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 Gaye Pusher (V) and its slot between the Cross-block Gaye 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 PLAYE (F). Remove the TYPE BLOCK (N), wipe it off and replace it, this time keeping it in position. Slide in the lower MOLD BLADE (H) 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 BLADE (H) can just be pushed through. Have 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 Type BLOCK (N) in position, insert the two SCREWS (I) at the back. bringing them just up to hearing (be sure the SCREW with the WASHER is nearest the MOLD BLADE). Wipe the lower MOLD BLADE (H) clean and slide it in from the rear with the Point Block (Z) in place, Caution: Be careful not to damage the corners of the Moth Blank (H), and do not force the Moth Blank over the Nick Pin. Turn the Monh bottom up and insert the three Screws (X) and (Y) is the bottom of the right Type Block (N). Blring them just up to Bearing. See that the Moin Blank (H) does not bind; Insert and tighten the Screws (D). Tighten the two Screws (D), (X), and (Y) of the right

35 Pat on the upper Mold Balder (O) being careful to get it resting properly on the lower Balder (E) being careful to get it resting properly on the lower Balder (E) between the best way to do the lower Balder (E) and (E)

36 Put on the MOLD-BLADE TOP GUIDE (C) and tighten its Scrieve, Put on the MOLD-BLADE STOP (G). But of the Stop Guide in Scrieve, Put on the Mold-BLADE STOP (G). But of Guide in the Mold-Blade in the Mold-Blade

37 Put on the Mold-brade Shield (E). Test the Blades again to see that they are free. Push the Blades in. Pat on the Mold-brades Leverse (K) and (L), having the Lever (K), with Spring Box (M) attacked, on top (these Levers will not work if in any other position). Insert and tighten the Lever Fulcaus Stud (J).

38. By bosoning the Seraws holding the right Conspance Carts Riocx (W), the GATE PRIMER (V) may be adjusted, Adjust the Seraws in the end of the Caros Block, curring it in or out, so that the Pusturis (V) will move smoothly but without looseness, and will be frush with the GATE BLOCK (W) on the bottom edge. This must be tested actor the Seraws holding the right CATE BLOCK (W) have 20. Make sure the Caros BLOCK (W) converted to the contract of the Caros BLOCK (W) converted to the Caros BLOCK (W) converted and its contract to the Caros BLOCK (W) converted and its contract to the Caros BLOCK (W) converted and its contract to the Caros BLOCK (W) converted and its contract to the Caros BLOCK (W) converted and its contract to the Caros BLOCK (W) converted and its contract to the Caro BLOCK (W) converted and its c

39 Make sure the Cross BLOCK (A) (complete) and its bearings are clean. Put the FRONT-ABUTMENT SHOR (P) in position in the MOLD and slide in the Cross BLOCK from the right.

40 The Front-Abutabent 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:

41 If the Cross BLOCK does not fit properly readjust the PRONT-ABUTMENT SHOE as follows: Remove the GATE

PUSHER (V) so that any tightness in its action will not interfere with the feel of the Cross BLOCK sliding. Loosen the LOCK NUTS (R) and (T) and slack off the SCREWS (Q) 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 Moun and set up the left Screw (O) antil the Cross BLOCK requires some little pressure of the fingers to slide it. Now slide the Caosa Block to the right until its right end comes flush with the right side of the Monn and set up the right Screw (S) in the same way. After sliding the CROSS BLOCK back and forth a few times to actile 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 bear 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 (O) with their LOCK NUTS (T) and (R), holding the Scriews to keen 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

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CHANGING MOLD BLADES

42 To change from one point-size to another requires that the upper and lower MOLD BLADES (O) and (H) with their POINT BLOCK (Z), the MOLD-BLADE TOP (G) MOLD-BLADE SURELD (E), and MOLD-BLADE TOP GUIDX (C) be changed.

43 To make this change proceed as under "Taking

Apart" up to the removal of the SCREWS holding the right Type BLOCK to the SQUARING PLATE (\$25, \$26 and \$27). 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 Moto Blade, wipe it clean, and replace it with the POINT BLOCK in position. CAUTION: Be careful not to MOLD BLADE over the NICK PIN, Insert SCREW (D) and bring it up to bearing, then bring Scriews (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 MOLD BLADE (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.

STYLES 2T and 2U SINGLE POINT SIZE SORTS CASTING MOLDS

44 The Styles 2T and 2U MoLDs differ from Styles 17 and 1U MoLDs in that they have but one BLADS each, and a large nick placed low on the body. There is one MoLDs for each point-size, the 14 and 18 point being 2T MoLDs and the 24, 30 and 36 point being 2U MoLDs. These MoLDs are not adjustable for different point sizes and each BLADS can be used only in its zow. Mot. h.

45 The directions in this circular apply to the Styles
2T and 2U Mosns just the same as they apply to the 1T
and 1U Mosns except where change of point size is mentioned as in §1. 3. 42 and 43 which should be disresurded.

for 2T and 2U Mpt.ps.

Names and Symbols of Parts of the

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
II Molds has the symbols here gives are for the 1T Molds.

Who does but the symbols here given are for the 1T Mold;
when ordering a part for the 1U Mold change the letter T
to the letter U in the symbol.
All parts which can be furnished for applying to a Mold

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 Caoss-block Coupling IMBIT2 and Mold-blood Stop 7MCITI.) For IU Molsons change

BASE PLATE.... bushing (short)..... 2354171 2MA1T2 " (right, pointed). . . 2193 . * lock nut (2) 386 . * 2MA1T4 2MAITS RASE - DEATE - PRONT - ARTHURNY NUMBER PLATE 3MA1T1 3MAIT2 BASE - PLATE - FRONT - ABUTMENT PACKING BLOCK SMAITI BASE-PLATE-GATE-PUSHER CAM..... 6MAITI 6MAIT2 CROSS BLOCK..... IMBITI coupling.....t

† Norm: If the Choss-stock Coursing IMBIT2 (or IMBIU2) be broken this part can be replaced by returning to us the broken pieces of the Coursing, provided these broken pieces are in such condition that the required measurements can be obtained from them.

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

letter T	to letter U.
CROSS BLOCK (continued) coupling screw. 2165 *	IMBIT3
dowel (to 3MB1T1)	1MB1T4
screw (to adjust 2MB1T1) 2167 *	1MB1T5
CROSS-BLOCK GATE BLOCK (right)screw (4)	2MB1T1 2MB1T2
NOTEW (4)	2MB112
CROSS-BLOCK GATE BLOCK (left)	3MBIT1
oil pad (felt)	3MB1T2
screw (4)	3MB1T3
CROSS-BLOCK GATE PUSHER	4MBITI
MOLD BLADE (bottom) (give point-size)	1MC1T1
MOLD BLADS (top) (give point-size)	2MC1T1
Mold-blade Point Block (give point-size)	5MC1T1
MOLD-BLADE SHIELD	6MC1T1
screw (2) 2208 .*	6MC1T2
Mold-blade Stop	7MC1T1 7MC1T3
NOTE: If the MOLD-BLADE STOP 7MCIT1 (be broken, this part can be replaced by returning to pieces of the STOP, provided these broken pieces are dition that the required measurements can be obtained.	in such con-
Maria and a maria de la constanta de la consta	
MOLD-BLADE TOP GUIDE (designate point-	8MC1T1
size of MOLD BLADE)	

| Month | Alexan | Too Cutture (Incinguate points and March March | 2222 | Month | Mon

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

For III Morne cho

	ror re-	I to letter U.
00 No. 111111		
TYPE BLOCK (right)		alMDITI
bushing (2)		1MDIT16
oil pad	Sec. 1 5	1MD1T5
plug screw (3)	2239 4	1MDIT7
" " (5)	2235	1MD1T8
pin (for 3MD1T1)		1MD1T9
screw (from 9MD1T1, short)		1MDITI0
" (from 1MA1T1, short) (2)		1MD1T11
" (from 9MD1T1, long)		1MD1T12
" (from 1MA1T1, long)	231 1	IMDITIA
" washer (4)		1MD1T14
manus (4)	700	130131119
TYPE BLOCK (left)		a2MD1T1
plug screw (3)	2020	2MD1T6
screw (from 1MA1T1) (3)	2259	2MD1T7
" (from 9MD1T1, rear)	231	2MD119
" washer		
nick pin		2MD1T18
" " plug		2MD1T19
Type-block Clamp Bolt		3MD1T1
nut	31 4	3MD1T2
spring.	6155 4	3MD1T3
washer	436 4	3MD1T4
Type-block-clamp-bolt Screw	,	4MDITI
TIPE-BLOCK-CLAMP-BOLD DURBN		40110111
Type-block Souaring Plate		9MD1T1
TYPE-BLOCK SQUARING PLATE,	2150	9MD1T2
adjusting screw (6).	2159	
bushing (3/4 long)		9MD1T4
" (3/6 long)		9MD1T9
" (2)		9MD1T10
plug screw (3)		9MD1T6
screw (2) (from 1MA1T1)	2161	9MD1T8

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

Names and Symbols of Parts of the

Styles 2T and 2U Molds

Use the list of parts given for 1T and 1U MoLDs, but for 12, 14 and 18 point MoLDs substitute 2T, and for 24, 30, and 36 point MOLDS substitute 2U in place of 1T as given in the symbols.



CLAMP

CAM

PLUE SCRIW WASHER (4) SCREW (2) SCREW (3) SCREW (3) GATE PUSHIN GATE BLOCK

Style T Moun, use the symbols as given.
Style U Moun, change "T" to "U" in each symbol.



"T" to "U" in each symbol. Moun, use the symbols as given.

For Style U Moth, change

T Mold, use the symbols as given. U Mold, change "T" to "U" in each symbol.

POINT BLOCK

Mold Repairs

It is not possible for operators to repair Molds for they have neither the special tools nor the nec-

If any defects occur in the type produced by this MGEA, that cannot be corrected by following the directions in this folicy-the complete. MGEA while the consideration of the transfer of the defective type; euclose these in the box with the MGEA and all size parts (be sure to include all parts for all point-sizes), prepay express charges and write as stating (a) point size and number of MGEA; (b) date of shipment and mounts: (c) details of transfer.

RESTORING TO HEIGHT

When a MOLD is returned to our factory, for any reason whatever, and we find after careful inspection, that it will not true up to produce a high quad above the low limit, the MOLD is restored to beight, unless we are advised specifically by the customer to the countrary.

IMPORTANT

This Mold is held in its box by two Screws which pass through the bottom of the box. Preserve this box and its Scaws for returning Mold. In reshipping do not nail the cover-tie it on

> LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA 3, PA.