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

STYLE 1U MOLD FOR CASTING SORTS. HIGH AND LOW QUADS AND SPACES OF ANY WIDTH SET-WAYS UP TO THIRTY-SIX POINTS INCLUSIVE IN TWENTY-FOUR, THIRTY, AND THIRTY-SIX-POINT SIZES.

MONOTYPE

LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA

Directions for Care and Cleaning

STYLES IT AND 1U SORTS CASTING MOLDS

1 The Styles IT and IU Mouse are furnished with three BLADES each for casting, as sorts, type and high and low quade and spaces of any width set-ways up to thirty-six points inclusive and of any point-size as follows: Style IT Mous for twelve-, fourteen-, and eighteenpoint bodies;

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

The twelve-point size in the IT MOLD is used for quads and spaces and for a few very extended twelve-point faces made in Sorts MATRICES. Composition MATRICES cannot be used on these MOLDS. The earlier IT MOLDS were equipped for casting twenty-point instead of twelve-noint.

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. Re-

3 Assembling: Be sure parts are of same point-size. These parts are clearly marked.

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

rear. Never lift the rear end of the Blades when passing them between the Type BLOCKS nor try to force them over the New Pin. Following this caution prevents injury to the Blades or to the Nick Pin.

to the BLADES or to the Nick Pin.

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

6 Protect the Gate Pusher by holding it in the Caoss

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

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

8 A new or repaired Mold requires special attention until the Casos Block has found its true bearing against the Tyres Blocks while running under actual work. After the Molo has run an hour, text the seiting of the Casos Block. If loose readjust it. Repeat this text after the Molo has run also also a full.

day. If the leaded, can BLOCKS or for 9 Screwe loosened. 10 After

this special measuring repairs alwaduces and a

11 Wate water as pos and bleedin as hot as car 12 Wate the Moun i

with the air blowing oil 13 Oilin every two o cept for the by hand.

by hand.

14 Temp
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most metal

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day. If this test be not made, the Moto 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 alter any part of the Molo. These parts are made by experienced workmen trained for this special work and supplied with the finest gaze and measuring instruments. When returning a Molo for recalls always enclose with it samples of the type it provening and the special process.

11 Water regulation: Mouse are built to use as little water as possible; use just enough to avoid histered bodies and bleeding feet. The water from the Mous should be as hot as can be borne on the hand.

and because feet. The water from the Mollo should be as hot as can be borne on the hand.

12 Water passages must be kept clean. Whenever the Mollo 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 Moldo Oiler, regulated to give a drop every two or three minutes, will give sufficient oiling, except for the Cross-shock Coupling which must be oiled

by hand.

14 Tamperature: The temperature of the metal should never be over 125 degrees nor cooler than 678 degrees; the larger bodies (that is, the ones requiring the most metal) take the lower temperature. This is for standard Monorywe metal. For metals other than this,

special care

15 Brid MOLD on 1

with the C for all Mos justments i lightly on t 16 Mat

16 Mat be in posi quads or sy 17 Firs proper bear everything

18 Bodi ways requ POUND LEV the MOLD ways the no 19 Thir

19 Thir casting type a body wid the Molo E 20 Whe

20 Whe it rests flat in this posit

with the Point Block (Z) in place. Caution: Be careful not to damage the corners of the Mold Blade (H), and do not force the Mold Blade (H). There

and (S) uni Cross Bloc



Bottom view with Cross BLOCK partly drawn out to show GATE PUSHER.

special care abould be taken to obtain the proper temperature by trial.

15 Bridge Serting: Test this setting before putting the Moke on the MACHINE. This setting, when once made with the CARRYING-FRAME ADJUSTING GACE, is correct for all MOLDS and MATRICES, but make sure that no adjustments bare worked losse and that the MATRICES berr lightly on the MoLD without hammering it. 16 Marrix Holder containing Matrix must always

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,

not before.

18 Bodies more than twelve points in width setways require that the MOLD-BLADE-CAM-LEVER COMPOUND LEVER be adjusted to give the increased stroke to the MOLD BLADE; for bodies twelve points, or less, set-

ways the normal stroke is used.

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

20 When replacing the upper Mold Blade be sure it rests flat on the lower Mol Blade at the rear. If not in this position it will be broken or badly sprung when 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 Moth and set you the left Screen (O)

MoLD-BLA put in pla 21 Adj

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require p the Pump Pin must which are 23 The creased.

creased. 24 The used in pl

25 Prej Spread do taken off t hands cles 26 Slid right bein Take out

right bein Take out 27 Swii is not ope STUO (J); BLADE SHI TOP GUIDI 28 Turi

28 Tur Screw (X)



MOLD BLADES and PRINT BLOCK

MODERADE SHIPED and MODERADE TOR Grove 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 r.n.m.; the PUMP capacity must be increased and the CENTERING PIN must exert an extra pressure on the Margix (all of

which are 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-rend Cautions

(See the "direction arrow" on each figure)

25 Prepare a suitable place for taking the Moto apart. Spread down a clean sheet of paper and as the parts are taken off the Mono, 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 MOLO-BLADE-LEVER FULCRUM STUD (J); MOLD-BLADE LEVERS (K) and (L); MOLD-BLADE SHIELD (E); MOLO-BLADE STOP (G); MOLD-BLADE

TOP GUIDE (C); upper MOLD BLACK (O). 28 Turn the Moto upside-down and take out one long SCREW (X) and two short SCREWS (Y) which hold the right this would inright Type BLOCK . SQUARING PLATE toward

CLEANING

30 Clean carefully all parts of the MOLD 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 remove. In case little particles of metal stick to any part of the Monn 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 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

34 Slide the right Type BLOCK (N) into position putting a slight pressure on it to remove any dirt from the surfaces of the SOUARING PLATE (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 Bloce (N) in position, insert the two Screws (I) at the back. bringing them just up to bearing the sure the Screw with the WASBER is nearest the MOLD BLADE) Wine the lower MOLD BLADE (H) clean and slide it in from the rear

(H) does up to bes of the r SCREW (35 P to get it the rear.

not to d do not f and (Y)

(O) back 36 Pr tighten it making s

bind, loo them, the there is -BLADE as 37 Pu in. Put

the LEVE (these L.s. Insert and 38 By BLOCK GA adjusted.

but withou GATE BLO 39 Ma bearings a

from the r 40 The (S) should eny way:

41 If t the Lock 1 such the Potert BLOCK (2) in place. CAUTION: He careful not to damage the corners of the MoLE BLANK (II), and do not force the MOLE BLANK (MOLE BLANK (II), and do not force the MOLE BLANK (III), and the MOLE BLANK (III) and the MOLE BLANK (III) and the MOLE BLANK (III). The MOLE BLANK (III) are the MOLE BLANK (III) and the MOLE BLANK (III) and

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43.

35 Put on the upper Mold Blade (O) being careful to get it resting properly on the lower Blade (H) at the rear. The best way to do this is to alide the upper Blade (O) in until its rear end drops into the slot in the top of the lower Blade (H). Work the Blades (H) and (O) black and forth separately to be sure no dirt is between them.

36 Put on the MOLD-BLADE TOP GUIDE (C) and tighten its Scarses. Put on the MOLD-BLADE STOP (G), making sure it is on square. Test the Bankes, if they bind, loosen the FOP GUIDE (C). If this does not free them, there is dirt in the MOLD. If it does not free them, there is dirt between the BLADE and GUIDE (G) and TYPE BLADE and GUIDE (G) and TYPE BLOCK (B) at the left end.

37 Put on the MOLD-BLADE SHIELD (E). Test the BLADES again to see that they are free. Push the BLADES in. Pat on the MOLD-BLADE LEVERS (K) and (L), having the LEVER (K), with SPRING BOX (M) attached, on top (these LEVERS will not love the final may other position).

Insert and tighten the LEVER 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 PUSHER will proceed any or another adjusted.

BLOCK GATE BLOCK (W), the GATE PUSHER (V) may be adjusted. Adjust so that the PUSHER will move smoothly but without looseness, and so that it will be flush with the GATE BLOCKS on the bottom edge.

39 Make sure the Cross Block (A) (complete) and its bearings are clean. Put the FRONT-ADUTMENT SHOR (P) in position in the Mold and slide in the Cross Block

in posting in the MOLD and silde in the CROSS BLOCK from the right.

40 The FRONT-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:

4. If the CROSS BLOCK does not fit properly readjust
the FRONT-ABUTMENT SHOE as follows: Remove the GATE
PUSHINE (V) so that any lightness in its action will not
interfere with the feel of the CROSS BLOCK shifting. Looses
the Lock NOWS (R) and (T) and slack of the Scrittves (O)

and (S) until the Csoss BLOCK slides freely. Slide the CROSS BLOCK to the left so that its left end comes flush with the left side of the Molo 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 MOLD 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 bear upon it with his fingers to alide it: he careful, bowever, to note that it has an even bearing and does not bind at any point. Lock the Screws (S) and (O) with their Lock Nurs (T) and (R), holding the Screws 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 (V) as described in §38,

CHANGING MOLD READES

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 STOP (G). MOLD-BLADE SUBLEO (K), and MOLD-BLADE TOP GUIDS (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 PLAYE (\$25, \$26 and \$27). Instead of removing these SCREWS, as described in ¶28. only loosen them. Then take out the lower Molo Black (H) with its POINT BLOCK. To remove any particles of dirt slide the lower Mono 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 MOLO 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 SCHEW (D) and then the SCREWS (I), (X), and (Y). Continue with \$35 under "Assembling," substituting the upper MOLO BLADE (O), the MOLD-BLADE SHIELD (E), MOLD-BLADE TOP GUIDE (C), and MOLD-BLAGE 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 1T and 1U MOLDS The names in the following list are alike for both 1T and 1U Mouns 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 Moldoutside our factory are designated by an asteriak (*) preceding the symbol. (See also special note following CROSS-BLOCK COUPLING 1MB1T2 and MOLD-BLADE Stop 7MC1T1)

For 1U	MOLDS change T to letter U.
BASE PLATE	1MAIT1
bushing (5/2" long)	1MA1T2
" ("Is" long)	1MA1T3
BASE-PLATE FRONT ABUTMENT	2MAITI
adjusting screw (left, blunt) 2157 4	2MAIT2
" (right, pointed)2193	2MAIT3
" lock nut (2)3864	2MA1T4
screw (3)	2MAIT5
BASE - PLATE - PRONT - ABUTMENT NUMBER	
PLATE	3MA1T1
screw (2)	3MA1T2
BASE - PLATE - FRONT - ABUTMENT PACKING	
Block	4MAIT1
BASE-PLATE-STONT-ABUTMENT She'E*	5MA1T1
BASE-PLATE-GATE-PUSHER	6MAITI
screw (3)	6MA1T2
CROSC-Brown	TMBIT1

CROSS BL compline

oil pad screw (4 CROSS-BLO

MOLD BLA MOLD BLA

> MOLD-BLA MOLD-BLA screw (2

MOLD-BLA + NOTE:

MOLD-BLAT size of

MOLD-BLA (upper).

MOLD-BLAZ

MOLD-BLAD

H	For 1U A	fours change
ı	CROSS BLOCK (continued)	to letter U.
ı		
ı	coupling screw	1MBIT3
	dowel (to 3MB1T1)	1MB1T4
ı	screw (to adjust 2MB1T1) 2167*	1MB1T5
	CROSS-BLOCK GATE BLOCK (right)	2MB1T1
	screw (4)	2MB1T2
	CROSS-BLOCK GATE BLOCK (left)	3MB1T1
	oil pad (felt)*	3MB1T2
	screw (4)	3MB1T3
	CROSS-BLOCK GATE PUSHER	4MB1T1
	MOLD BLADE (bottom) (give point-size)	1MC1T1
	MOLO BLAOR (top) (give point-size)	2MC1T1
	MOLD-BLADE POINT BLOCK (give point-size)	5MC1T1
	the same of the sa	
	MOLD-BLADE SHIELD	6MC1T1
	screw (2)	6MC1T2
	actes (e)	OMC111
	MOLD-BLADE STOP	7MC1T1
	screw (2)	7MC1T2
	A	
	† Norm: If the Moun-mans Stor 7MC1T1 (c be broken, this part can be replaced by returning to proces of the Stor, provided these broken pieces are	r 7MCIUI)
	meers of the Supe, provided these broken meers are	in such con-
	dition that the required measurements can be obtained	d from them.
	MOLO-BLADE TOP GUIDE (designate point-	
	size of Molo Blads)	8MC1T1
	screw (2) 2220*	8MC1T2
		12MCIT1
		12MC1T2
		12MC1T3
	" box*	12MC1T4
	" " pin	12MC1T5
	" " plug*	12MC1T6
	MOLD-BLADE-LEVER FULCRUM STUD*	13MC1T1
	MOLO-BLADE-LEVER-SPRING-BOX PLATE *	14MC1T1
ı	screw (2)*	14MC1T2
	*Can be applied without returning the M	
ı	*Can be applied without returning the M	to our

Type Br bushin oil pac plug se pin (fo screw

Type Be

TYPE-BI nut... spring washe

Washe Type-BL Type-BL

Type-BL screw Type-BL

Tyre-st adjust bushin plug s screw

* Can factory.

. For IU.	Motos change to letter U.
Type Block (large)	alMD1T1
bushing (2)	1MD1T16
	1MDITI6
oil pad*	
plug screw (3)	1MDIT7
	1MD1T8
pin (for 3MD1T1)*	1MD1T9
screw (from 9MD1T1, short)*	1MD1T10
	1MD1T11
	1MD1T12
" (from 1MA1T1, long)231 .*	1MD1T13
" washer (5)	1MD1T14
Type Block (small)	a2MD1T1
plus screw (3)	2MD1T6
screw (from 1MA1T1) (3)2162	2MD1T7
" (from 9MD1T1, rear)231	2MD1T9
nick pin.	2MD1T18
" " plug	2MD1T19
Type-block Clamp Bolt *	3MD1T1
nut	3MD1T2
spring	3MD1T3
washer	3MD1T4
	OMDITT.
Type-block-clamp-bolt Screw*	4MD1T1

TYPE-BLOCK GATE KNOCK OFF	6MDITI
screw (2)	6MD1T2
	ODLLOTZE
Type-block Squaring Plate	9MD1T1
adjusting screw (6)	9MD1T2
bushing (54" long)	9MD1T4
" (54" long)	9MD1T9
" (2)	9MDIT10
plug screw (3) 2235. *	9MD1110
screw (2) (from 1MA1T1)	9MD1T8
screw (2) (from 1 M M 1 1 1)	MD118

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







Mold Repairs

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

If any defects occur in the type produced by this Moto, that cannot be corrected by following the directions in this folder, the complete Mole should be at once returned to as with samples of the defective type; enclose these in the box with the Mole and all its parts (be sure to include all parts for all point-sizes), prepay express charges and write us stating (a) point size and number of Mota; (b) date of shipment and route; (c) details of trouble.

IMPORTANT

This Mold is held in its box by two Screws the past 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 O

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