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 FOR CASTING SOHIS.
HIGH AND LOW QUADS AND SPACES OF
ANY WIDTH SET-WAYS UP TO THIRTY-SIX
POINTS INCLUSIVE IN TWENTYFOUR, THIRTY, AND THIRTY-SIXPOINT SIZES.

MONOTYPE

LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA

Directions for Care and Cleaning STYLES IT AND IU

SORTS CASTING MOLDS

1 The Styles IT and 1U Mor. ps are furnished with three Style 1T Mono for twelve-, fourteen-, and eighteen-

Style IU Moud for twenty-four-, thirty-, and thirty-

The twelve-point size in the 1T MoLD is used for quads made in Sorts MATRICES. Composition MATRICES cannot be used on these Monns. The earlier 1T Monns 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 Moto de 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 Pin. Following this caution prevents injury to the BLADES or to the NICK PIN

5 Pitting 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 Cross 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 working conditions. After the Moun has run an hour, test the setting of the Cross Block. If loose, readjust it. Repeat this test after the Moun has run half a day and also a full

day. If th leaded, car 9 Screw loosened. 10 Alter

this special measuring duces and a

11 Ware 12 Wate the MOLD i

blowing oil 13 Oilin every two o cept for the

14 Temp degrees: the most metal

with the Po



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.

11 Water regulation: Mo.ns are built to use as little water as possible; use just enough to avoid blistered bodies

water as possable; use just enough to avoid blistered bodies and bleeding feet. The water from the Mold should be as hot as can be borne on the hand.

12 Water passages 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 every two or three minutes, will give sufficient oiling, ex-

every two or three minutes, will give sufficient oiling, except for the Cross-block Coupling which must be oiled by band.

14 Temperature: The temperature of the metal should never be over 723 degrees nor cooler than 675

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

MOLD on with the

with the of for all Monjustments i lightly on to 16 Mat be in posi-

be in posi quads or st 17 Firs proper bear everything not before. 18 Bodi

ways requested the Mold ways the no

19 Thir casting typ a body wid the Mold E 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

CROSS BLOC



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 MOLDS and MATRICES, but make sure that no ad-

instments have worked loose and that the MATRICES bear lightly on the Morn without hammering it. 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 Mond 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 set-

ways require that the MOLD-BLADE-CAM-LEVER COM-FOUND 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 Morps. Do not attempt to cast a body wider than this for to do so will strain or break the Moto Brane

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

and (S) until the Cross Brock slides freely. Slide the CROSS BLOCK to the left so that its left end comes flush with the left side of the Morn and set up the left Scare (O) 21 Adj

22 Boo require p 23 The

creased. used in pl

25 Pres taken off t 26 Slid

right bein Take out 27 Swin is not ope STUD (J): 28 Tun

SCREW (X)



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 r.p.m.;

the PUMP capacity must be increased and the CENTERING
PIN must exert an extra pressure on the Marrix (all of
which are provided by the Display-type Attachment).

23 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 Channels Blocks.

TAKING APART: Re-read Cautions

(See the "direction arrow" on each figure)

25 Prepare a suitable place for taking the Mond apart. Spread down a clean sheet of paper and as the parts are taken off the Mond, 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 MOD-BLADE-LEVER FULCRUM STUD (J): MOD-BLADE LEVERS (K) and (L): MOLD-BLADE STUD (G): MOD-BLADE STOP (G): MOD-BLADE TOP GUIRE (C): unper MOD BLADE (M).

28 Turn the MOLD upside-down and take out one long SCREW (X) and two short SCREWS (Y) which hold the right this would in right Type BLOCK SQUARING PLATE towa CKS OF

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 not use waste, as this will leave lint which is very hard to 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 brass 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-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 Squaring 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 BLADK (H) flat down on the SOUARING 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, the WASHER is nearest the MOLD BLADE) Wine the lower MOLD BLADE (H) clean and slide it in from the rear

4N7

(H) does of the ri SCREW (35 P to get is the rear.

do not f the Mor and (Y)

Bring th

top of th (O) back 36 Pt

tighten it making s bind, loo BLOCK (H

37 Pu Put . the LEVE (these La Insert and

38 By adjusted. but witho GATE BLO 39 Ma bearings a

from the r 40 The (S) should

any way: 41 If t with the Porver BLOCK (Z) in place. CAUTION: Be careful on to damage the content of the Modd BLADE (H), and do not force the MODD BLADE (H), and do not force the MODD BLADE (W) and the CAUTION (H) and the CAUTION (H) and (Y) is also as the CAUTION (H) and (Y) i

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43.

35 Put on the upper Mono Blades (O) being careful to get it resting properly on the lower Blades (H) 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 of the top of the lower BLADE (O). In other blades (H). Work the BLADES (H) and (O) back and forth separately to be sure no diff is between

ave

W

36 Put on the Mold-Bilder Top Guide (C) and dighten its Scause. Put on the Mold-Bilder (G), making sure it is on square. Test the Mold-Bilder (H), making sure it is on square. Test the Mold-Bilder of the three them, there is dirt in the Mold. If it should be the three them, there is dirt in the Mold. If it should be the three is dirt between the Bilder Sons or between the Top Bilder Bilder (G) and Type Bilder (G) and Type Bilder (G) and Type Bilder (G) and Type (G) and

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

Insert and tighten the LEVER FULCRUM STUD (J).

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

BLOCK GATE BLOCK (W), the GATE PUSHER (V) may be adjusted. Adjust so that the PUSHER will move smoothly but without logseness, 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-ABUTMENT SHOK (P) in position in the MOLD and slide in the CROSS BLOCK from the state.

from the right.

40 The Front-abutment Adjusting Scriws (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 FRONT-ABUTENET STOR as follows: Remove the GATE
PUSHING (Y) so that any tightness in its action will not
interfere with the feel of the CROSS BLOCK sliding. Loopen
the Lock NUTS (R) and (T) and slake of the CROSS DO

and the Caroon Bacca dides freely. Sligh the Costs Receive the left so that the left and ones flund with the left side of the Moxis and set up the left Sexus (O). The cost of the Moxis and set up the left Sexus (O) are imported to the New Section Bacca to the right sent its right end comes flund with the right lade of the right sent its right end comes flund with the right lade of Aller deling the Costs Bacca back with the right lade of the lade of the right lade of the lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right lade of the right lade of the lade of the right lade of the right

CHANGING MOLD BLADES

(V) as described in ¶38.

42. To change from one point-size to another requires that the upper and lower MOAD BLADES (O) and (H) with their POINT BLOCK (Z), the MOAD-BLADE STOP (G), MOAD-BLADE SHILD (E), and MOAD-BLADE 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 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 noint-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 935 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



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 Molds but the symbols here given are for the 1T Molds; 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 Mon.n

All parts which can be furnished for applying to a Mon.n

outside our factory are designated by an asterisk (*)

preceding the symbol. (See also special note following

CROSS-BLOCK COUPLING IMBIT2 and MOLD-BLADE

Stor 7MC1T1.)

	For 1U M	to letter U.
BASE PLATE		1MAITI
bushing (35" long)		1MA1T2
" ("\s" long)		1MA1T3
BASE-PLATE FRONT ABUTMENT		2MA1T1
adjusting screw (left, blunt)	2157*	2MAIT2
" (right, pointed)	2193	2MAIT3
" " lock nut (2)	.386 *	2MAIT4
screw (3)	.221*	2MAITS
BASE - PLATE - FRONT - ABUTMENT N		
PLATE		3MA1T1
screw (2)	. 251*	3MA1T2
RASE - PLATE - PRONT - ABUTMENT P.	CEING	
BLOCK		4MAITI
BASE-PLATE-FRONT-ABUTMENT SHOK	*	5MA1T1
-		
BASE-PLATE-GATE-PUSHER C	J	6MA1T1
screw (3)	6. *	6MA1T2

CROSS BLO coupling dowel (t screw (to

Screw (4 Cross-Blo oil pad (

CROSS-BLO MOLD BLA

MOLD-BLA

MOLD-BLA screw (2 MOLD-BLA screw (2

MOLD-BLA

stze ot screw (2 Mold-bla (upper).

Mold-Bla

* Can factory.

For 1U Moure change
CROSS BLOCK (continued)
coupling screw
dowel (to 3MB1T1) 1MB1T4
screw (to adjust 2MB1T1) 2167 * 1MB1T5
CROSS-BLOCK GATE BLOCK (right) 2MB1T1
screw (4)
(-y
CROSS-BLOCK GATE BLOCK (left)
oil pad (felt)* 3MB1T2
screw (4)
sciew (1)
CROSS-BLOCK GATE PUSHER AMBITI
CROSS-BLOCK GATE PUSHER 4MB1T1
MOLD BLADE (bottom) (give point-size) 1MC1T1
MOLD BLADE (top) (give point-size) 2MC1T1
MOLD-BLADE POINT BLOCK (give point-size) 5MC1T1
MOLD-BLADE SHIELD
screw (2)
MOLD-BLADE STOP T 7MC1T1
screw (2)
I NOTE: II the MOLD-BLADE STOP 7MCITI (or 7MCIUI)
pieces of the Stor, provided these broken pieces are in such con-
‡ NOTE: If the MOLD-BLADE STOP 7MC1T1 (or 7MC1U1) be broken, this part can be replaced by returning to us the broken pieces of the Stor, provided these broken pieces are in such condition that the required measurements can be obtained from them.
MOLD-BLADE TOP GUIDE (designate point-
size of MOLD BLADE) 8MC1T1
screw (2) 2220 8MC1T2
MOLD-BLADE LEVER (lowe * 12MC1T1
(upper)* 12MC1T2
spring
" box * 12MC1T4
" " pin* 12MC1T5
" " plug + 12MC1T6
piug* 1251C116
MOLD-BLADE-LEVER FULCRUM STUD * 13MC1T1
MOLD-BLADE-LEVER FULCRUM STUD* 13MC1T1
MOLD-BLADE-LEVER-SPRING-BOX PLATE * 14MC1T1
screw (2)
*Can be applied without returning the Mold to our
factory.

Type Bi bushin oil pao plug s

Type Bi plug s screw

TYPE-BI

TYPE-BI

Type-sr adjust bushin

bushin

* Can factory.

Tree Block (large)			
bashing (2)	For 1U Mouns change letter T to letter U.		
oil pad. 1801715 18017	Type Block (large)	alMD1T1	
of pad	hushing (2)	1MD1T16	
pie sere (I). 2229 s. IMDITTS pie (In the Martin Ma		1MD1TS	
10	nlug screw (3)	1MD1T7	
pin for MADITI)	" " (5) 2235 *	1MD1T8	
arrow from NMD171, short), 1 MD1710 (from NM171, log), 241, 1 MD1712 (from MM171, log), 241, 1 MD1712 (from MM171, log), 241, 1 MD1712 (from MM171, log), 242, 1 MD1712 plag areas (a) 229, 1 MD1712 plag areas (a) 229, 1 MD1712 plag areas (a) 229, 1 MD1712 mere (from IMM171) (b), 242, 2 MD1717 mere (from IMM171) (b), 242, 2 MD1712 TPS-AGC-CLAMP-BOLT SCAW, 4 MD171	nin (for 3MDIT1) *	1MD1T0	
"mm IMATI", short [2] 2162 MIDITI"	screw (from 9MD1T1, short) *		
"from PMDF11, long", 231. MMDF12	" (from 1MA1T1 short) (2) 2162 *	1MDITH.	
### (*** Free MATT, Log) 231. ** [MM7714 washer (**) 435. ** [MM714 washer (**) 435. ** [MM717 washer (**) 4	" (from 9MD1T1, long) 231 .*		
"worker (9)		1MD1T13	
ping series (i)		1MD1T14	
ping series (i)			
ping series (i)	Type Block (small)	a2MD1T1	
Serve (from IMAIT) (J). 2162. 2MOITT	plug screw (3) 2239	2MD1T6	
sick pin. MMD111s "Blug 2MD171s Tyres.acc. Class Bist 4 MD171s Tyres.acc. Class Bist 485. All States 3MD171s washer 486. 3MD171s washer 486. 3MD171s washer 486. 3MD171s Tyres.acc. CLAMP-SIGLT SCREW. 4MD171 Tyres.acc. SQNASSOR PALT 6MD172 Tyres.acc. SQNASSOR PALT 9MD171s All Squasing server (s) 287. Mill Squasing server (s) 9MD172 Mill Squasing server (s) 9MD172 Mill Squasing server (s) 287. Mill Squasing server (s)		2MD1T7	
1	" (from 9MD1T1, rear)231	2MD1T9	
"" "plag MDITI" TYPE-RACK CLAMP-BORT . " MODITI BI	nick pin	2MD1T18	
Type_acce_Clamp Box	" " nlug	2MD1T19	
March March March			
pring. 4615. * 3MDPT3 washer AMDPT3 washer AMDPT3 AMDP	TYPE-BLOCK CLAMP BOLT*	3MD1T1	
washer. 486. * 3MDIT4 Tyre-BLOCK CALAMP-BOLT SCREW. 4MDIT1 Tyre-BLOCK CATE KNOCK OFF 6MDIT1 Tyre-BLOCK SQUASHON PLATE. 9MDIT1 adjusting screw (6) 289. 9MDIT1 adjusting screw (6) 9MDIT3 9MDIT3 (6/* long) 9MDIT3 9MDIT3 (6/* long) 9MDIT3 9MDIT3 (6/* long) 283. 9MDIT3 (6/* long) 2285. 9MDIT4	nut	3MD1T2	
washer. 486. * 3MDIT4 Tyre-BLOCK CALAMP-BOLT SCREW. 4MDIT1 Tyre-BLOCK CATE KNOCK OFF 6MDIT1 Tyre-BLOCK SQUASHON PLATE. 9MDIT1 adjusting screw (6) 289. 9MDIT1 adjusting screw (6) 9MDIT3 9MDIT3 (6/* long) 9MDIT3 9MDIT3 (6/* long) 9MDIT3 9MDIT3 (6/* long) 283. 9MDIT3 (6/* long) 2285. 9MDIT4	spring	3MD1T3	
Type-BLOCK GATE KNOCK OFF	washer	3MD1T4	
Type-BLOCK GATE KNOCK OFF			
STEW (2)	TYPE-BLOCK-CLAMP-BOLT SCREW*	4MD1T1	
STEW (2)			
Type-BLOCK SQUARING PLATE 9MD1T1 sdjusting screw (6) 2189 9MD1T2 bushing (34" long) 9MD1T4 9MD1T4 9MD1T9 (2) 9MD1T0 9MD1T0 10 9MD1T0 10 9MD1T0 10 9MD1T0 10 9MD1T0 10 9MD1T0 10 10 10 10 10 10 10	TYPE-BLOCK GATE KNOCK OFF		
adjusting screw (6) 2159 9MDIT2	screw (2)	6MD1T2	
adjusting screw (6) 2159 9MDIT2			
bushing (¼" long) 9MD1T4 " (¾" long) 9MD1T9 " (2) 9MD1T9 (2) 9MD1T10 plug screw (3) 2235 * 9MD1T6	TYPE-BLOCK SQUARING PLATE		
" (1/4" long) 9MD1T9 " (2) 9MD1T10 plug screw (3) 2235. * 9MD1T6	adjusting screw (6)		
" (2). 9MD1T10 plug screw (3). 2235. * 9MD1T6	bushing (¼" long)	9MD1T4	
plug screw (3)	" (¾" long)		
plug screw (3)			
screw (2) (from 1MA1T1)2161 9MD1T8	screw (2) (from 1MA1T1)2161	9MD1T8	

*Can be applied without returning the 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 Mota, that cannot be corrected by following the directions in this folder, the complete Mold should be at once returned to us with samples of the defective type; enclose these in the box with the Mold and all its parts (be sure to include all parts for all point-sizes), prepay express charges and write us starting (a) point size and number of Motor, (b) date of shipment and route; (c) details of trouble

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—fail ton.

LANSTON MONOTYPE MACHINE COMPANY PHILADELPHIA S

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