

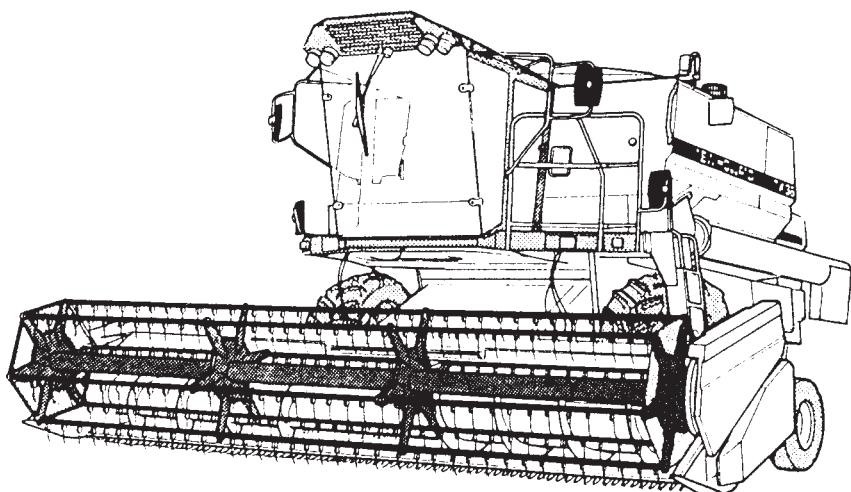
Product: New Holland TF and TX Combine Training Service Repair Manual
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NEW HOLLAND



Training Course

Combines TF and TX Series



The winning team

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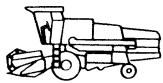
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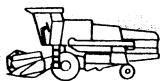
INTRODUCTION



INTRODUCTION

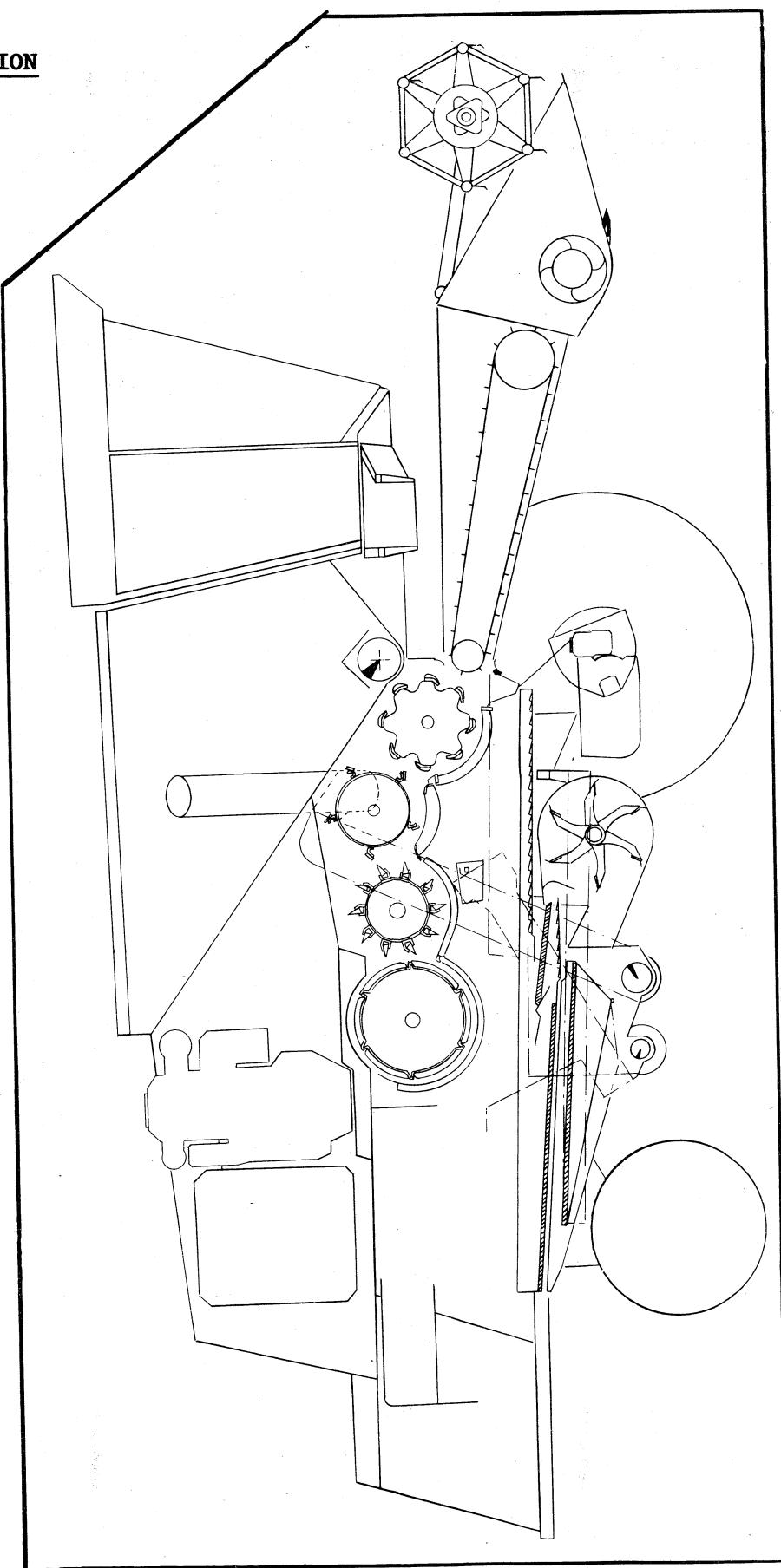
01.00

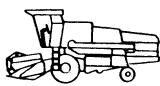
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1. LONGITUDINAL SECTION

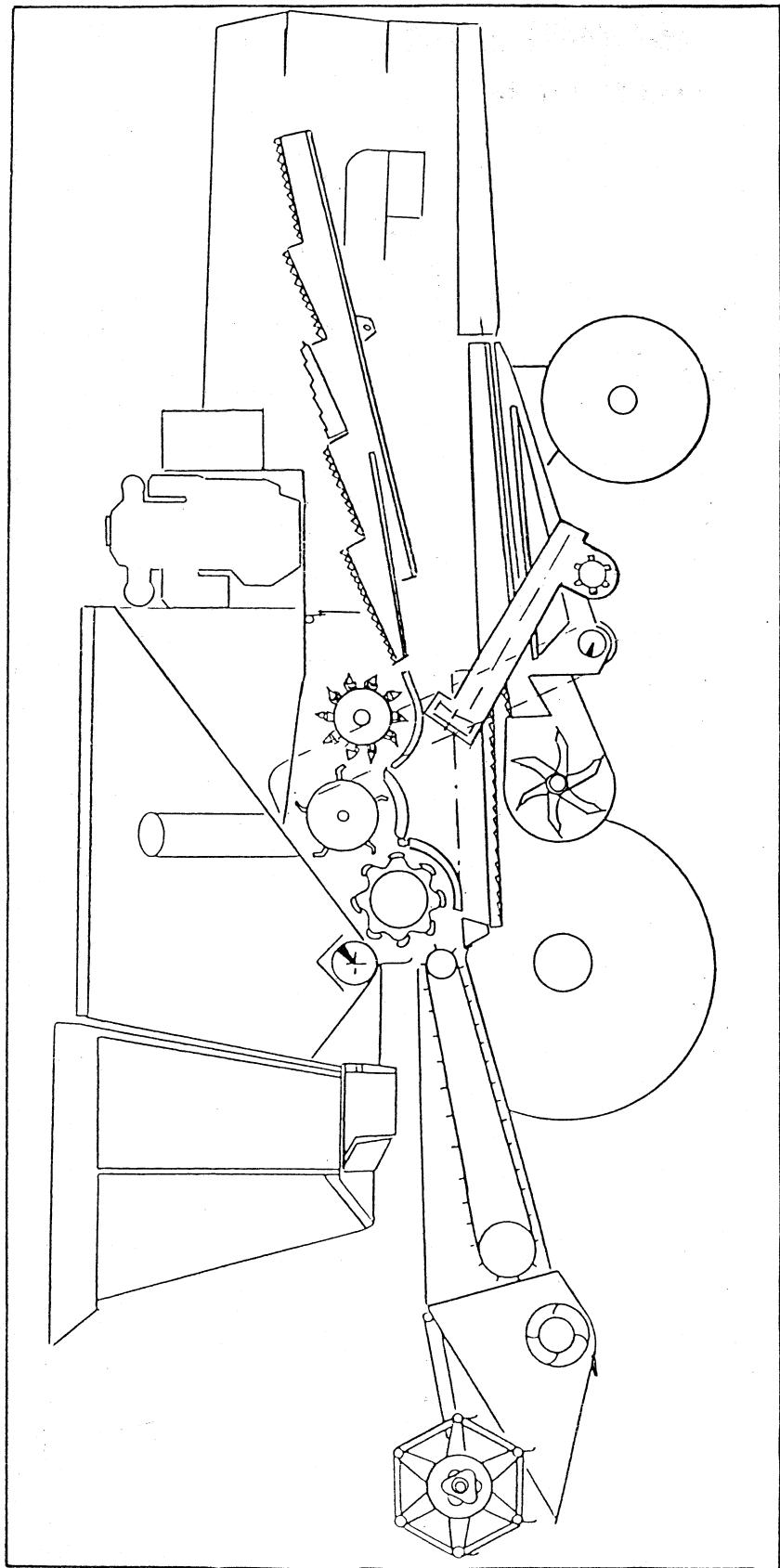
TF42-TF44-TF46





2. LONGITUDINAL SECTION

TX30/32/34/36



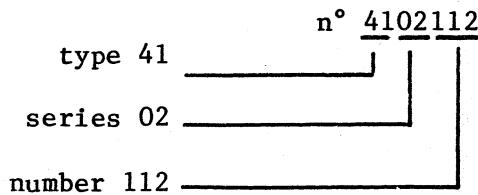


INTRODUCTION

01.02 01

EXPLANATION OF MACHINE AND HEADER SERIAL NUMBERS

1. MACHINE SERIAL NUMBER



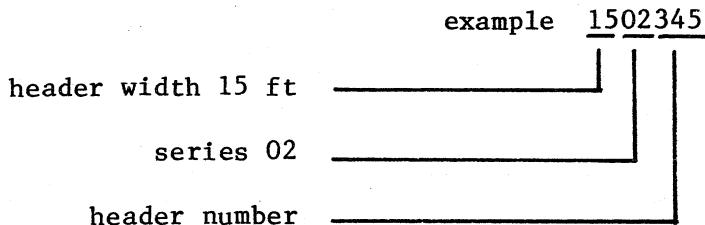
Explanation of types:

type 71 = TF42	type 76 = TX36
72 = TF44	77 = TX32
74 = TF46	81 = TX30
75 = TX34	

Examples:

7110 - TF42 - series 10
7211 - TF44 - series 11
7401 - TF46 - series 01
7515 - TX34 - series 15

2. HEADER NUMBER



The width is given in ft (1 ft = 30.4 cm)

The available widths are: 10 - 12 - 13 - 15 - 17 - 20 - 24 ft.

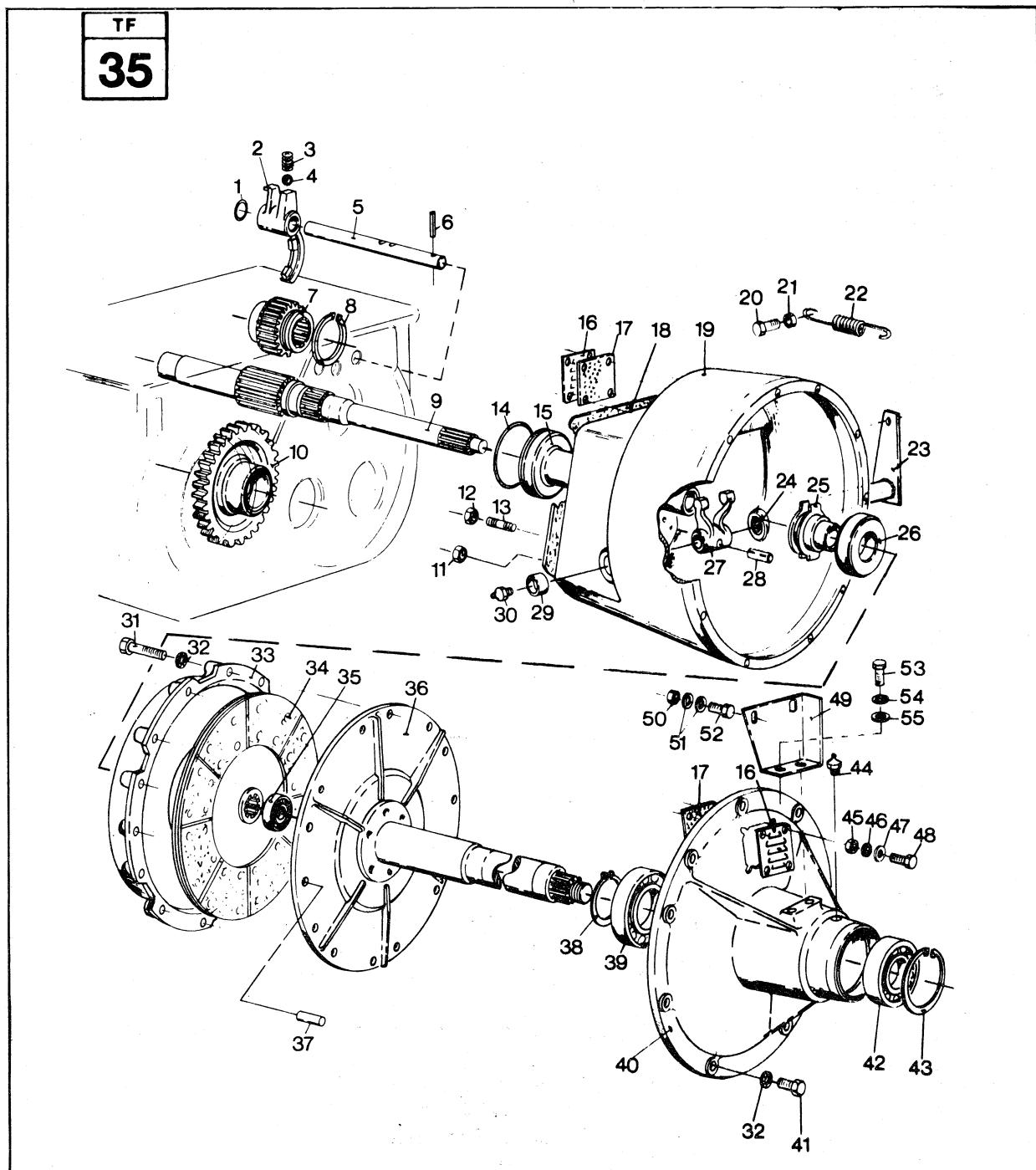
Note: 10 ft header is without full width retractable tines

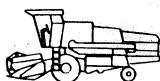
The first two figures of the maize headers stand for the following:

- 54 : 3-row maize head
- 55 : 4-row maize head
- 56 : 5-row maize head
- 57 : 6-row maize head
- 58 : 8-row maize head

**3. PARTS LIST FROM SERVICE PARTS CATALOGUE**

Column 1 : Fig. - indication of the part on the drawing
2 : Order ref. - part number
3 : CD - computer control code
4 : Qty. : quantity
5 : Code : serial number of the machine concerned
6 : Description
7 : Time allowed to service this part.



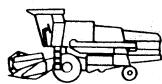


MECHANICAL DRIVE
TRANSMISSION MECHANIQUE
MECHANISCHER FAHRANTRIEB
TRAZIONE MECCANICA
MECHANISCHE TRAKTIE

FOR TF 42 ONLY

Fig.	Order Ref.	CD	T F 4 2	T F 4 4	Code	Description	N.B.
1	129979 3			1		"O"ring	
2	421479 8			1		Fork	
3	390835 6			1		Spring	
4	210006 2			1		Ball	
5	430773 3			1		Shaft	
6	300872 6			1		Roll pin	
7	395964 4			1		Gear	
8	412068 6			1		Snap ring	
9	395966 8			1		Drive shaft	
10	395965 6			1		Gear	
11	100038 6			4		Hex. locknut	
12	100037 4			2		Hex. locknut	
13	412193 1			2		Stud	
14	433629 1			1		"O" ring	
15	430437 1			1		Guide bushing	
16	448909 2			2		Protection plate	
17	448910 5			2		Grill	
18	430801 4			1	100	Gasket	
	456162 8			1	101	Gasket	
19	448793 5			1	100	Clutch housing	3,8
	456651 5			1	101	Clutch housing	
20	120112 8			2		Hex. cap screw	
21	100016 0			2		Hex. nut	
22	442353 7			1		Spring	
23	443252 4			1		Coupling shaft	3,8
24	420434 3			1		Sleeve bushing	
25	442368 8			1		Bracket	
26	454372 1			1		Thrust bearing	2,5
27	398560 1			1		Fork	3,8
28	357924 4			1		Pin	
29	420410 3			1		Sleeve bearing	
30	323713 7			2		Grease fitting	
31	120062 1			12		Hex. cap screw	
32	322358 2			21		Tooth lockwasher	
33	450248 4			1		Clutch plate assy.	
34	450249 6			1		Clutch disc	3,0
35	362804 7			1		Ball bearing	3,2
36	436003 8			1		Drive plate	3,7
37	412098 9			2		Pin	
38	370027 9			1		Snap ring	
39	435918 6			1		Ball bearing	4,1
40	448791 1			1		Flange	4,2

GROUP
35

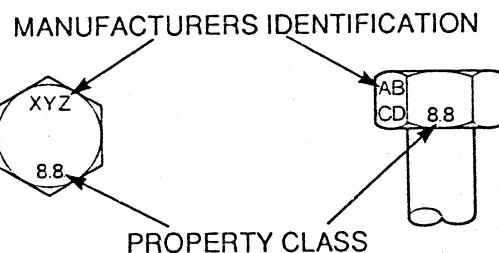
**TIGHTENING TORQUES****1. Metric hardware**

Zinc-coated or bichromated bolts

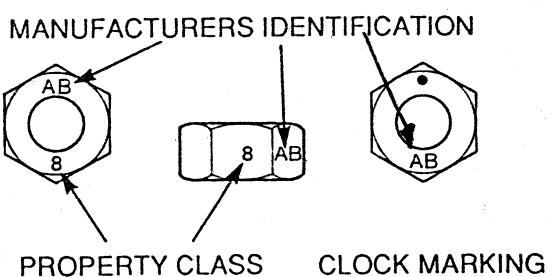
Diameter	5.8	8.8		10.9
	Torque in Nm			
M4	2.2	1.8*	3.4	4.8
M6	7.6	6.3*	12	17
M8	18	15*	28	40
M10	36	30*	56	79
M12	63	53*	97	138
M16	158	131*	240	344
M20	307	265*	485	671
M24	531	458*	839	1160

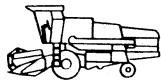
* Torque for lock nut only

IDENTIFICATION
HEX CAP SCREWS AND CARRIAGE BOLTS
CLASSES 5.6 AND UPWARDS



HEX NUTS AND LOCK NUTS
CLASSES 05 AND UPWARDS



**2. Imperial hardware**

Zinc-coated or bichromated bolts

Diameter	SAE GR 2	SAE GR 5		SAE GR 8	
	Torque in Nm				
1/4"	8.1	6.9*	13	9.8*	18
5/16"	17	14*	26	20*	37
3/8"	30	26*	46	35*	65
7/16"	47	41*	73	57*	104
1/2"	73	61*	113	88*	159
9/16"	104	88*	163	125*	229
5/8"	145	122*	224	172*	316
3/4"	256	217*	397	306*	560
7/8"	248	350*	641	494*	904
1"	373	523*	960	739*	1356

* Torque for lock nut only

IDENTIFICATION**CAP SCREWS AND CARRIAGE BOLTS**

GRADE 2



GRADE 5



GRADE 8



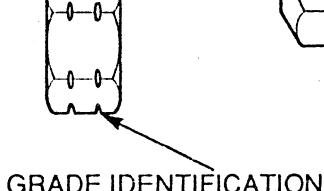
STANDARD NUT



GRADE 5

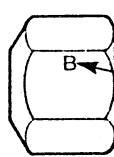


GRADE 8

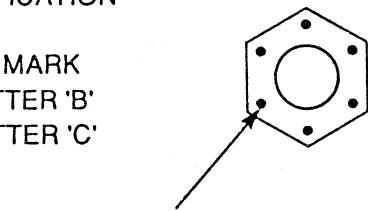


GRADE IDENTIFICATION

GRADE A - NO NOTCHES
 GRADE B - ONE CIRCUMFERENTIAL
 NOTCH
 GRADE C - TWO CIRCUMFERENTIAL
 NOTCHES



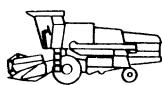
LOCK NUTS
 GRADE IDENTIFICATION
 GRADE A - NO MARK
 GRADE B - LETTER 'B'
 GRADE C - LETTER 'C'



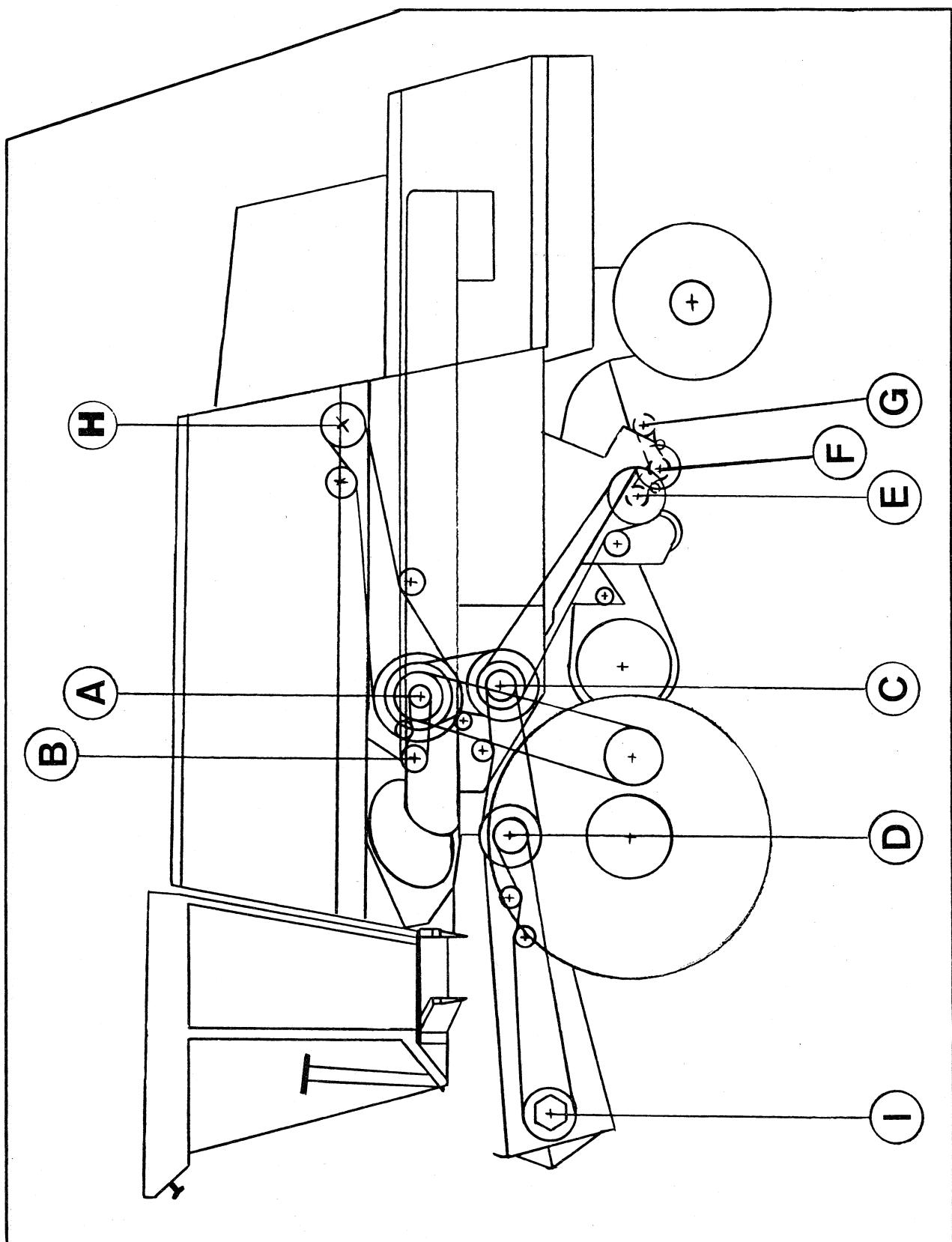
GRADE IDENTIFICATION

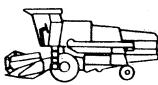
GRADE A - NO MARKS
 GRADE B - THREE MARK
 GRADE C - SIX MARKS
 MARKS ARE NOT ALWAYS
 AT THE CORNERS

SPEED RANGES



TF42-TF44-TF46 left-hand side





INTRODUCTION

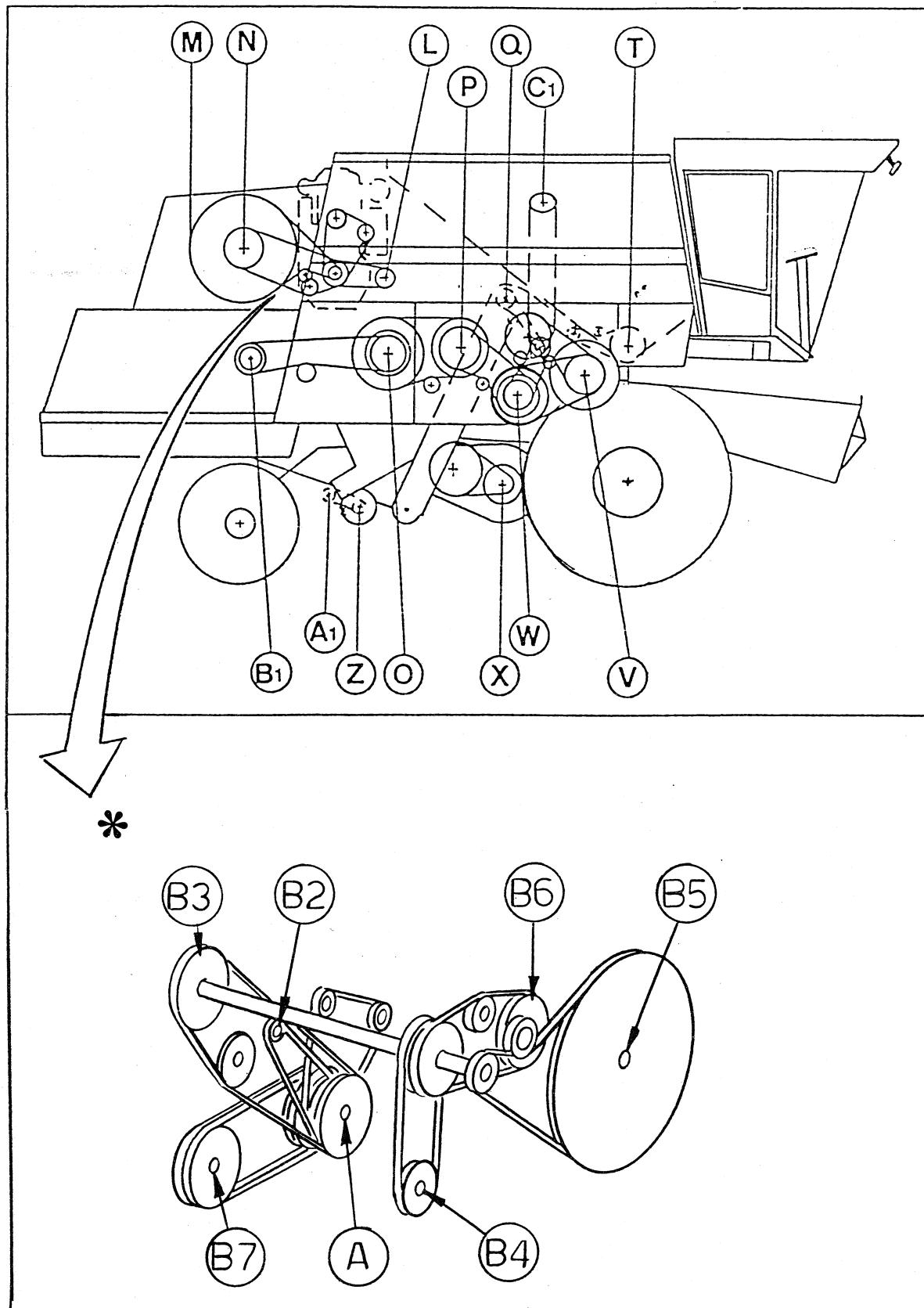
01.06 02

Revolutions per minute⁻¹ - TF42-TF44-TF46 left-hand side

A = beater -	256-760
B = bottom auger intermediate shaft -	1340
C = intermediate shaft -	800
D = straw elevator top shaft -	374
E = cleaning shoe drive -	320
F = roto-thresher	800
G = tailings elevator -	800
H = engine -	2400 (TF44/46) and 2500 (TF42)
I = header drive -	433



TF42/TF44/TF46 right-hand side



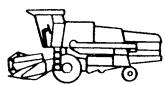


Revolutions per minute⁻¹ - TF42-TF44-TF46 right-hand side

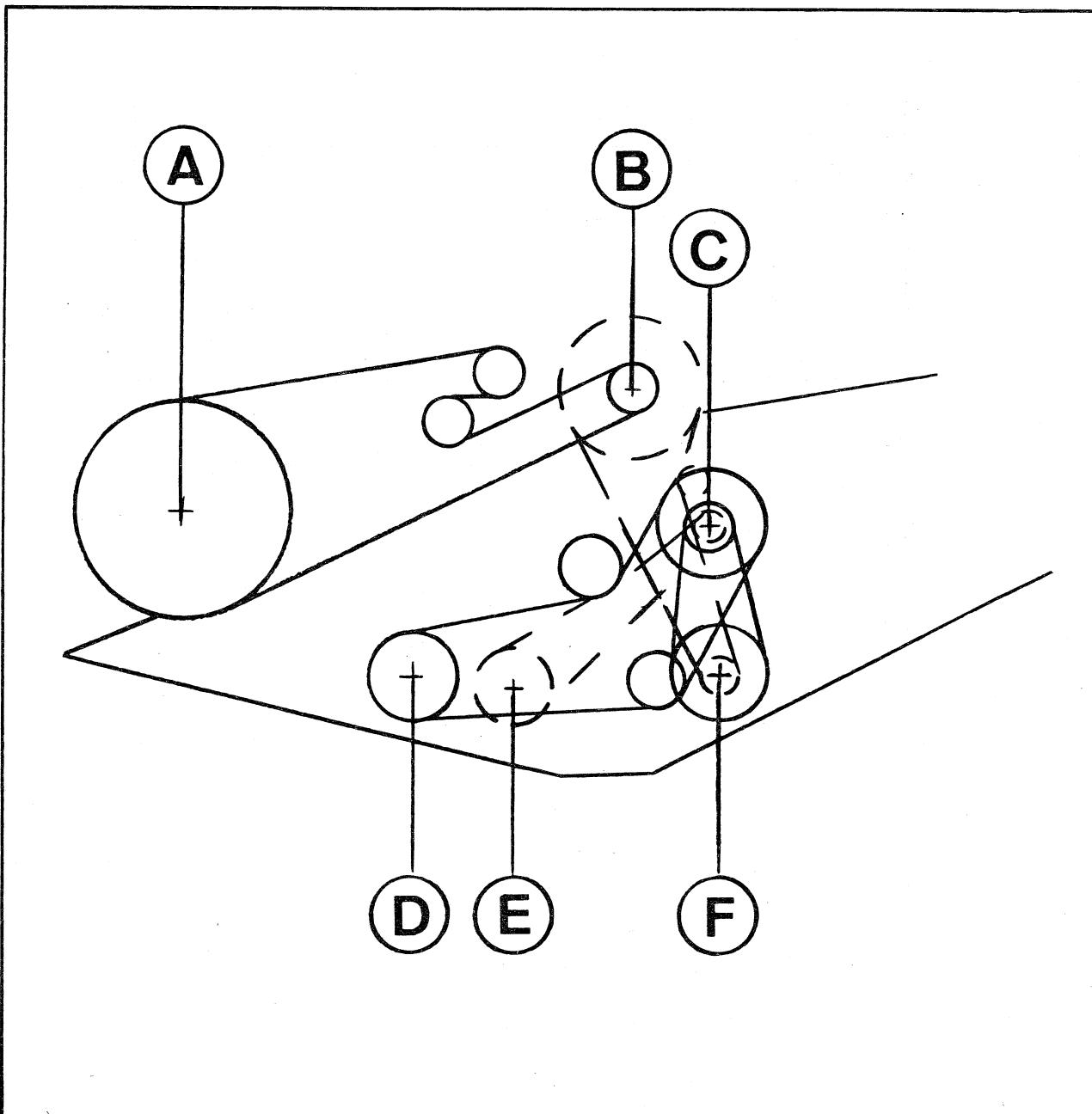
A1	= tailings elevator -	793
B1	= discharge beaters -	1000 or 1200
C1	= bubble-up auger -	368
L	= airconditioning compressor -	3029 - 3181
M	= rotary dust screen -	424 (TF 46)
N	= engine cooling -	2444 (TF 46)
O	= rotor -	343 or 651
P	= rotary separator -	400 or 760
Q	= grain elevator -	382
T	= grain tank bottom auger -	620
V	= drum variator -	385 - 1140
W	= intermediate shaft -	800
X	= cleaning fan -	460 - 950
Z	= roto-thresher -	793

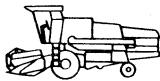
* TF 42/44 from series 7120/7220 onwards

A	= engine crankshaft -	2400 TF 44
B2	= alternator -	2500 TF 42
B3	= intermediate shaft -	5733
B4	= AC compressor -	2600
B5	= rotary dust screen -	3000
B6	= engine fan -	200
B7	= hydraulic pump -	2350 TF 44
		2580 TF 42
		2400 TF 44
		2500 TF 42



HEADER

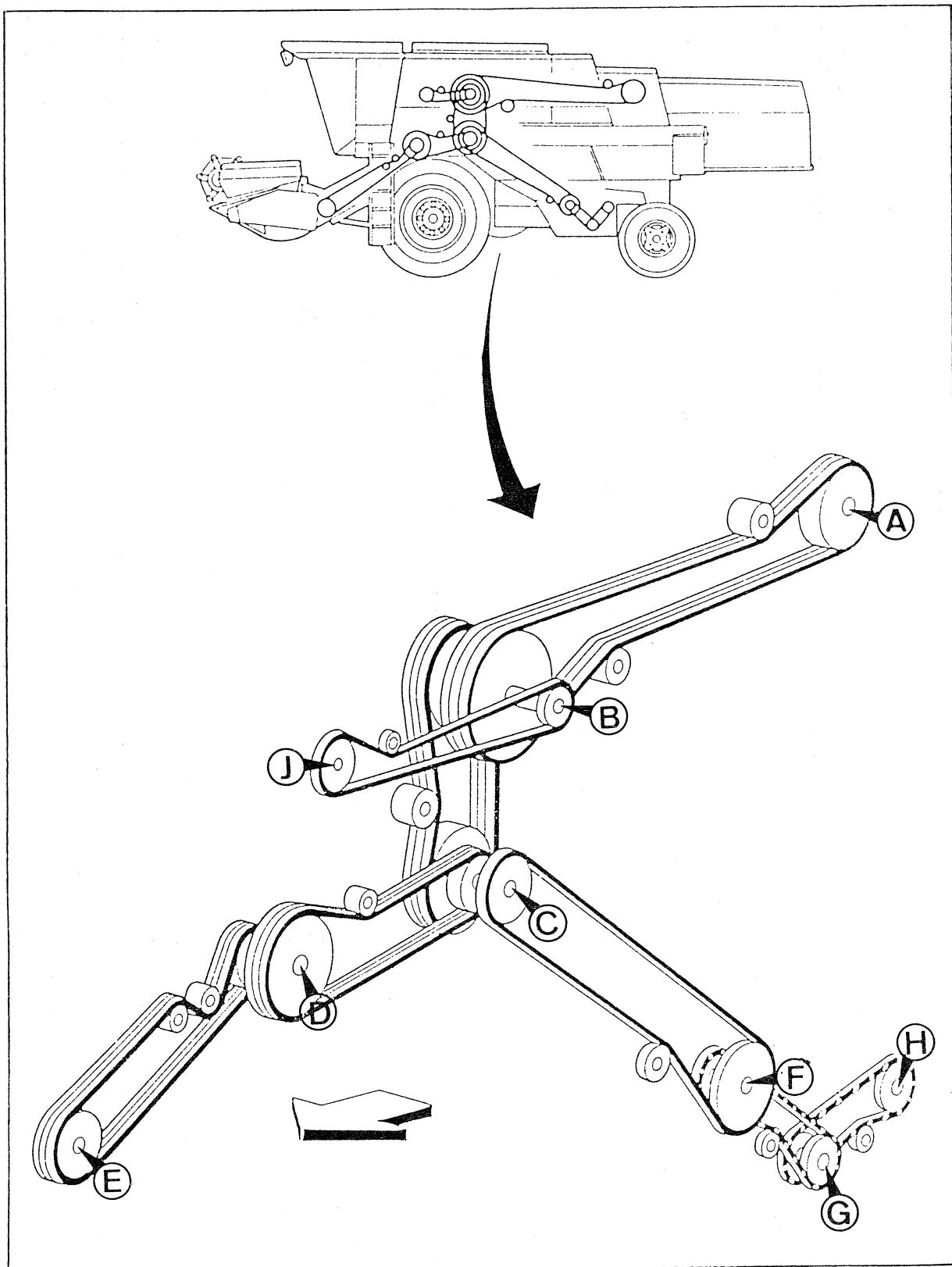
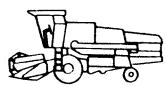




HEADER

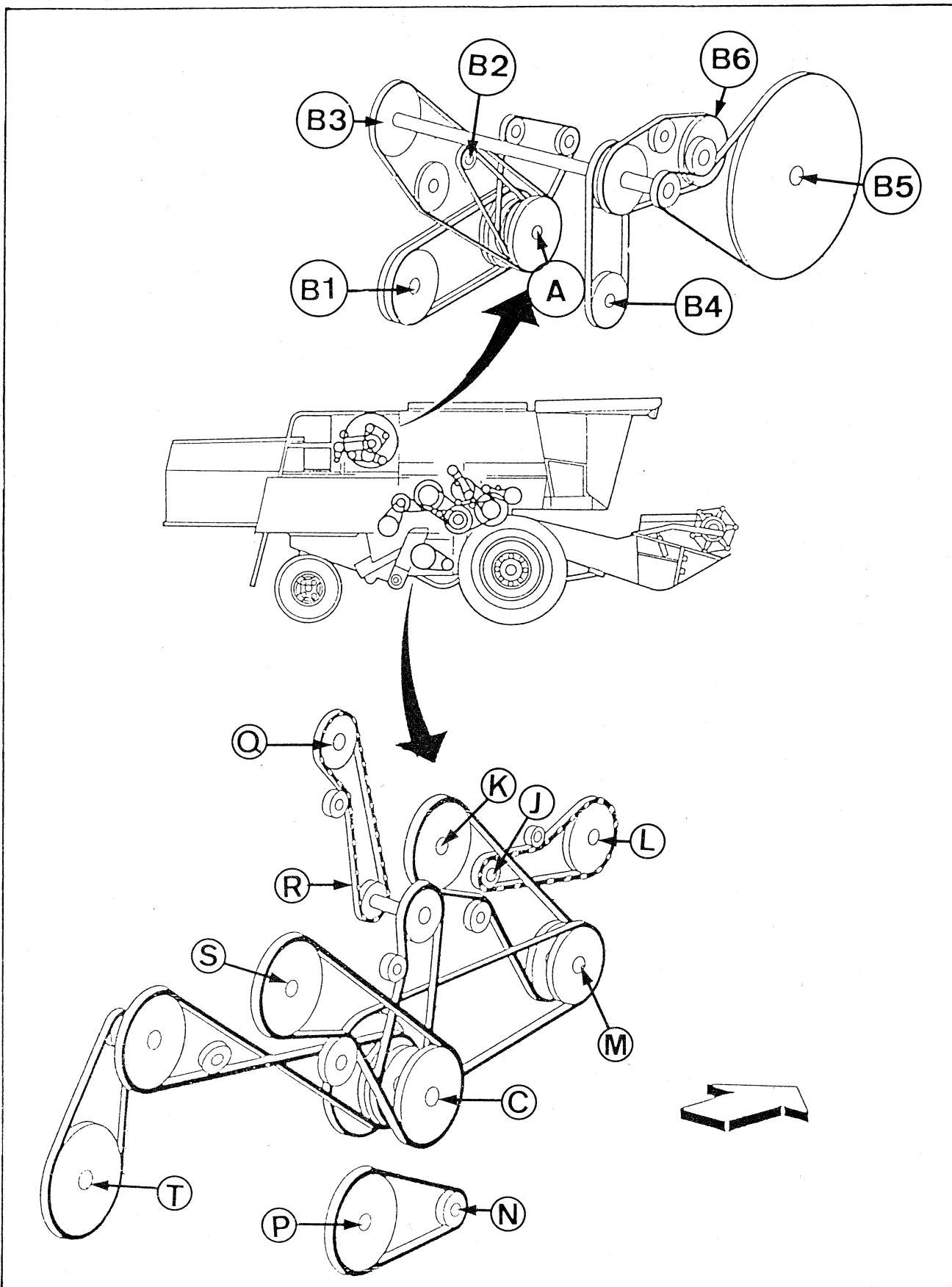
rpm

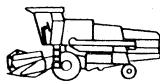
A =	reel -	21 - 57 or 12 - 32
B =	reel arm pulley -	80 - 218 or 45 - 123
C =	reel variator top shaft -	433
D =	wobble box -	530 (old type)
	-	575 (new type)
E =	feed auger -	192 or 149
F =	reel variator bottom shaft -	263 - 712



**TX30 - TX32 - TX34 - TX36 left-hand side**

	rpm
A: engine	2500
B: loose pulley on beatershaft	1340
C: intermediate shaft	800
D: straw elevator top shaft	374
E: header drive	433
F: cleaning shoe drive	320
G: returns cross auger and roto-thresher	800
H: returns auger and thrower	600
J: graintank unloading auger intermediate shaft	1340





INTRODUCTION

01.06 10

TX30 - TX32 - TX34 - TX36 right-hand side

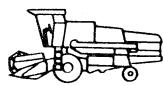
-Threshing, separation and cleaning area

	rpm
J: grain tank unloading intermediate shaft	1340
K: beater	256 - 760 (2/3 of threshing drum speed)
L: grain tank unloading auger	620
M: threshing drum	385 - 1140
N: fan	450 - 950
P: eccentric shaft	320
Q: grain elevator top shaft	382
*standard	456
*option	
R: bubble-up auger speed (gearbox)	370
*standard	441
*option	
S: rotary separator	760 or 400
T: straw walker	220

-Engine compartment

A: engine	2500
B1: hydraulic pump	2500
B2: alternator	5733
B3: intermediate shaft	2598
B4: airconditioning compressor	3000
B5: rotary screen	442
B6: cooling or engine fan	TX30/32: 2348 TX34: 2348 - 678 HTA 2446 - 678 HT TX36: 2580

TRACTION

**TRACTION**

02.00

Mechanical traction multi-use gearbox	02.01
Hydrostatic traction multi-use gearbox	02.02
Clutches	02.03
Traction variators	02.04
Brakes	02.05
Final drives	02.06
Dump pedal adjustment TX30 - 32 - 34 - 36 TF42 - 44 - 46	02.07

MECHANICAL TRACTION MULTI-USE GEARBOX

