## Header Table

No	eader lable		·······	,			
	printing transmission		TVI N	El Itam aumin	Code er Print discription	1000	Example / Remarks
'	Finding transmission	0,	2HI 10	Ej item numb	er Print discription		X Change Item 2 to "ABCDE"
2	Print Data recall		IXES		Mossos sureber		02H+10H+32H+41H+42H+43H+44H+45H+03H
~	I Till Data recall		2H 1E		Message number 3 digits (1 to 150(300))	- £1	
		10,	eraj 16	26H	2 digits (1 to 99)	ᅴᅝ	H 123:02H+1BH+56H+31H+32H+33H+03H
3	Print Condition transmission	0-	TXES			<del> </del>	45 : 02H+1BH+26H+34H+35H+03H
_	Character height		H 16			-ET	
		0-2	27/10		2 digits (00-99)	03	
	Character width			31H	3 digits (000 to 199)	_	090:02H+1BH+31H+30H+39H+30H+03H
	Character orientation			32H	1 digits (0-3)		0:02H+1BH+32H+30H+03H
	Print start delay			33H	4 digits (0000 to 9999)	]	0100:02H+1BH+33H+30H+31H+30H+30H+03H
	Repeat intervals	1		34H	4 digits (0000 to 9999)	7	1234 : 02H+1BH+34H+31H+32H+33H+34H+03H
	Repeat count		1	35H	4 digits (0000 to 9999)		1234 : 02H+1BH+35H+31H+32H+33H+34H+03H
	Print start delay(reverse)			36H	4 digits (0000 to 9999)		0200:02H+1BH+36H+30H+32H+30H+30H+03H
	Target sensor timer	7	1	37H	3 digits (000 to 999)	7	090 : 02H+1BH+37H+30H+39H+30H+03H
	Target sensor filter	$\neg$		38H	4 digits (0000 to 9999)		0100 : 02H+1BH+38H+30H+31H+30H+30H+03H
	Target sensor filter(Division)	_	J	39H	1 digits (1.time setup, 2: until end of print)	=	1:02H+18H+39H+31H+03H
	High-speed printing	Ti	ſ	3AH	1 digits (0:HM, 1:NM, 2:QM)	┥	0:HM : 02H+1BH+3AH+30H+03H
	Product speed matching	_	- 1	38H	1 digits (0:Time-based, 1:Encoder)		
	Pulse rate division factor	┥			Trugis (0.7/me-based, 1.2/icoder)		1:02H+1BH+3BH+31H+03H
		—		3CH	3 digits (001 to 999)		010 : 02H+1BH+3CH+30H+31H+30H+03H
	Ink drop use percentage	-	<del>. </del>	3DH	2 digits (01-16)	-	02:02H+1BH+3DH+30H+32H+03H
4	Print format		X ES		Data	_ ET.	
	Column count setup (overall)	_ 02	H 1BI		30H (fixed)	03	H 02H+1BH+2BH+30H+03H *)Must be set independently
	Specifying the print items		ĺ	24H	Item number +	7	Change Item 2 to "Line count=4 /Line spacing=1"
	I L			1	Print format		02H+1BH+24H+32H+ <b>1BH+22H+34H+31H</b> +03H
	Line count/Line spacing	7	ļ	22H	2 digits	7	
i	1	ĺ	Ì	1	"Line count (1-4)" +		Siling //Part of format) 1PUL22UL22UL22U
				1	"Line spacing (0-2)"		3-line:(Part of format) 1BH+22H+33H+32H
ı	Character size/	┪		0411		4	2
	1 1	1		21H	2 digits		
- 1	Inter-character space	1	-		"Character size (0:5x5,-,5:24x32)" +	•	3:12x16 :(Part of format) 1BH+21H+33H+34H
- 1		_	1		"inter-character space (0-8)"		4
1	Bae code "Used"/"not used"	_	1	29H	1 digits (0: not used, 1: used)	) [	0 :(Part of format) 1BH+29H+30H
- 1	Bae code type	_l	1	2AH	1 digits (0:Code39,, 12:DM24x24)	7	EAN+13: (Part of format) 18H+29H+31H+18H+2AH+33H
Į	EAN readable code	7		7DH	1 digits (0:None, 1:5x5, 2:5x7)	7	5x7 :(Part of format) 1BH+7DH+32H
- [	EAN Prefix Code	7	1	2CH	2 digits (00-99)	1	49 :(Part of format) 1BH+2CH+34H+39H
J	Code set	7	İ	3FH	1 digits (0:code set B, 1:code set C)	-	1 :(Part of format) 1BH+3FH+31H
ĺ	Increased width		1	28H	1 digits (1-9)	┪	2 :(Part of format) 1BH+28H+32H
	User pattern	SD	ESC		Data	ETA	
	- Doct pattern		1 1BH		"Character size (0:5x5,-,5:24x32)" +		
Į		1021	1 1125	2011		U3F	
Ì		1	ļ		Registration No. +		01 : D1H+
٠,	Colondos	ــــــــــــــــــــــــــــــــــــــ	1	!	Data	<u></u>	: 00H+01H+0CH+14H+00H+00H+00H+00H+03H
	Calendar					,,	
ľ	Calendar character code	SIX	JOLE	ltem number	Print discription	ĮĘTX	Year: F250H, Month: F251H, Day: F252H, Hour: F253H,
1		[02⊦	10H	Ĭ	1	1	Minute: F254H, Second: F255H, Total day: F256H.
L		<u>l</u>				03H	Month 3-digit: F257H Weeks: F258H, Day of week: F259H
(	Calendar condition transmission	STX	ESC	Header	Data	ETX	Item:2 : 02H+1BH+76H+32H+
Ī	Offset	02H	1BH	76H	Item number+		3:Hour : 33H+
	Í	1	]		Type (0:Year, 1:Month,,4:Minute) +	" ,	-10 : 2DH+31H+30H+03H
1					Data		
	Zero-suppression	1		77H		ł	("-"(2DH) when setting negative offset to hour, minute
	ZCIO-Suppression	ĺ		//8	Item number +	ĺ	Item:1:02H+1BH+77H+31H+
İ					Type (0:Year, 1:Month,,4:Minute) +		2:Day : 32H+
4-		<u>!</u>	J		Data (0:Disable, 1:Enable)		1:31H+03H
	Count	,					
C	Count character code	STX	DLE	Item number	Print discription	ETX	C: F25AH
L		02H	10H			03H	
C	Count condition transmission	STX	ESC	Header	Data	ETX	
	Initial value, Range,	102H	1BH	80H	item number +		item:2 : 02H+1BH+80H+32H+
	Jump from, Jump to, Reset		' ''''	5511		OSM	
	Camp norm, oursip to, Iveset	1			Type(0:initial value,, 5:Reset) +		5.76561 : 35H+
1	Update	1		04!!	Data	i	0100 : 30H+30H+30H+30H+03H
1	Opuate		l i	81H	item number +		Item:1:02H+1BH+81H+31H+
					Type(0:In progress, 1:Unit) +		1:unit : 31H+
					Data		0005 : 30H+30H+30H+35H+03H
	Direction,			82H	Item number +		Item:1:02H+1BH+82H+31H+
1	(SOP-04;External count, Reset)				Type(0:Direction,, 2:Reset signal) +		0:30H+
		-		ļ	Data		0:up : 30H+03H
ĺ	Increment			83H	Item number +		liem:1 : 02H+1BH+83H+31H+
1			1		Data		02 : 30H+32H+03H
	Online/Offline transmission	×	ESC				
		^	-		×	×	No need "ENQ/ACK hand shake" before
0	Change to online	- 1	18H	79H		ľ	Change to online: 1BH+79H
0		Ì		7AH			Change to offline: 1BH+7AH
L	Change to offline			14	x		
L	urrent time output		ESCL		^ !	×	No need "ENQ/ACK hand shake" before
L	urrent time output Inquiry to IJP		ESC) 1BH	Header :	<u>`</u>	×	
L	urrent time output Inquiry to IJP		1BH	7BH			Inquiry "Current time output": 18H+78H
L	lurrent time output Inquiry to IJP Text output	STX	1BH ESC	7BH Header	Data	ETX	Inquiry "Current time output": 18H+78H "Year:2010, Oct., 15th, 11:25, 30sec."
L	lurrent time output Inquiry to IJP Text output		1BH ESC	7BH Header	Data		Inquiry "Current time output": 18H+78H

## Header Table (SOP-04)

			_					
No		Header type				Code		Example / Remarks
1	F	rint contents Output	T x	ESC	Header	x	Τx	
i	1	Previously printed contents	⊣ "		2EH	<b>⊣</b> ^	1 ^	
			-1			-	1	Inquiry of Previously printed contents: 1BH+2EH
- 1	1	Contents that will subsequently be printed			2FH		İ	Inquiry of Contents that will subsequently be printed: 18H+2FH
- 1		Text output	ST	K DLE	item number	Print discription	ΙEΤ	X
- !	Į	(Output from IJP)		1	Į	·	1	
ſ	ì		1	1		Ĭ	i	
	~~~	tatus inquiry	+	ESC	113			
12	10		× ا	JESC		Įx	] X	No need "ENQ/ACK hand shake" before
		Inquiry to IJP			23H_		ĺ	Inquiry of Status: 1BH+23H
ļ	ļ	Text output	ST	(31H	X	Data	TET	X Data1: Communication connection status
	ĺ	(Output from IJP)	i	1		4 digits (Data1-4)	٦	Data2: Receive enable/disable status
ļ	ļ	, , , , , , , , , , , , , , , , , , , ,	1			4 digits (Buta 1-4)	ì	
1	+-		-l- <u></u> -	<del></del>				Data3: Operation status, Data4: Warning status
3	P	int start code	STX	( 07H	į ×	×	ET.	X
1	ļ	(Output from IJP)		1 :			Į	
4	Pi	int complete code	SD	DLE	19H	x	ET.	v
'	Ι, ,	(Output from IJP)	1012	1000	1913	<b> ^</b>	E 1.	^
1-	+		<b></b>				1	
5	IRe	emote operation control	JSTX	ESC	Header	Data	ET	X
1	J	Specifying the print items			71H	30H: Start of operation	7	1
	ĺ	· / · ·	1	1 1		31H: Shutdown of operation	1	
1	L			ĺĺ				
ì	Į		Į			32H: Deflection Voltage (ON)		
	ĺ		1	1 1		33H: Deflection Voltage (OFF)	1	·
1	1		1	l 1			ĺ	
-	Н	sak initialization	100			34H: Fault clear	<del> </del>	
10	🗥 🧗	ock initialization	121X	ESC		Data	ED	X
i	Ιí	Current date/time		ll	72H	14 digits (YYYYMM0Dhhmmss)		
1			1	} [	ì	,	ĺ	
1		Calendar time control	1	ì	73H	d. O	-	<u> </u>
		Calendal time control	1			1: Same as current time	Į	1
1 1			ĺ			2: Clock stop	j	
1		Calendar date/time		l (	74H	14 digits (YYYYMMDDhhmmss)		
1 1			}		J		1	
1 1		Clock system		i i-	751.1	d. Od have everteen	ĺ	
	- 1	Clock system	Į I			1: 24-hour system		
1 1	1	ĺ			}	2: 12-hour system	Į	
i I	- 1	•		i	l	·		
7	Prin	nt data registration	277	ESC	Header	Message number (+name)	ETX	· · · · · · · · · · · · · · · · · · ·
1 1			217		ricauei	iviessage fulfiber (+flatfle)	1217	
1 1	- 1	Message number		L		3 digits (1 to 150(300))		123 : 02H+1BH+55H+31H+32H+33H+03H
	L		1	- 1	25H :	2 digits (1 to 99)		45:02H+1BH+25H+34H+35H+03H
i I	- 11	Message name	i	Γ	86H -	1 to 12digits		Message number "45" & Message name "ABCDE"
] }	- 1	1	. !			To Indigita		
ĺĺ	Į		Ì	- 1	ļ			02H+1BH+25H+34H+35H+1BH+86H+41H+42H+43H+44H+45H+03H
ļļ	- 1		ļ		i	1		f or
لـــــا	$\perp$					i		02H+1BH+86H+41H+42H+43H+44H+45H+1BH+25H+34H+35H+03H
8	Out	put communication inquiry	x	ESC	Header (	Classification	×	No need "ENQ/ACK hand shake" before
1 1	F	Print line setting	- }			C1H	~	The fleed Elites for flank shake belote
ĺ		rint contents	ĺ	- 1	2011	2111		]
ļļ					l.			
		current print contents with	1	- 1		C2H		
	Į.	rint contents (current print contents)	i	ĺ	10	23H		
	- 7	Calendar condition				D4H		
		Substitution rule	- {	- }				
			i	f		25H		į
	١	Count condition			ic	26H		
i (	F	rint format	ļ			7H	-	1
		rint specification	ĺ	1		28H		
				i i				}
		rint data(Message number & name)	J			He		<b> </b>
İ	ĮL	ser environment setup	- 1	ļ	Γč	CAH	ļ	
Į	Œ	ate/time setup		i		ЭВН	1	·
- 1		ommunication environment setup	Į.				Ì	
i			- 1	-		юн		[
	П	ouch screen setup	1	- 1	IC.	DH	ļ	
	IC	peration management				EH	į	,
		iew alarm history	1	ļ		FH		
				ĺ			I	1
-		arts usage time management				91H	Į	
i	V	iew software version		1	Ð	2H	1	` l
	SI	irrer test (pigment ink machine only)	i	1		ЗН		
- 1		onth 3-column substitution rule		- 1		011 14H		
1			Į	J			- 1	
		hift code setup	ı			5H	1	
Į	ĮŢi	me count condition		1	ΙD	6H	- 1	
f	-		- 1	- 1		lasification: D7H +	- 1	
			- 1	ļ		1	1	
ļ	]			1		haracter size: 30H-36H +	- 1	
i	U	ser pattern	1		P	age No.: 31H-33H	I	
	1			1	C	lasification: D8H +	- 1	.
Į		•	Į			haracter size: 30H-36H +	1	
Ì	١,,	andord sharester	1				- 1	
		andard character pattern				age No.: 31H-32H	- 1.	· · · · · · · · · · · · · · · · · · ·
- 1	U	nit information	ļ		DOH D	1H	li	Only for serviceman
	Vi	scometer calibration	- 1	}		2H	- 1	
ļ		stem environment setup	- 1	İ		3H	- 1	1
ĺ			ĺ	J			ſ	į
J		justment/operational checkout	- 1	1		4H	Į	
	JS۵	lenoid valve/pump test			D5	5H	. 1	<b>!</b>

## Header Table (SOP-16)

No	11,				Code		. Example / Remarks
1	Printing transmission			item number	Print discription	ETX	Change item 2 to "ABCDE"
<u> </u>			10H			03H	02H+10H+32H+41H+42H+43H+44H+45H+03H
2	Clear buffer	STX	ESC	Header		EIX	When "Clear buffer" is transmitted, the print contents held
<u></u>			<u> </u>	2DH	x		in buffer will be cleared.
3	Restart printing	STX	ESC	Header		ETX	To restart printing after transmitting "Clear buffer", transmit print
Щ	1			5AH	x		contents at least two times, then transmit "Restart printing".