

CL	TC	ED NO.	DESCRIPTION	CHECK DATE	CHECKED BY																				
B	B	PT1377	RECV SUPLR DWG.	2012.10.03	KAJIWARA KUNITOSHI																				
13004125(DWG)																									
<table border="1"> <tr> <td colspan="2">ORIGINAL</td> <td colspan="2">Dwg Index C-13004125</td> </tr> <tr> <td colspan="2">TBKK (Headland) Co., Ltd.</td> <td colspan="2">Rev No. 00</td> </tr> <tr> <td colspan="2">Research & Development Dept.</td> <td colspan="2">Part No. 1377</td> </tr> <tr> <td>APPROVED</td> <td>INITIATED</td> <td>DATE</td> <td></td> </tr> <tr> <td>M. Ito</td> <td>John Chonko</td> <td>10-Nov-12</td> <td></td> </tr> </table>						ORIGINAL		Dwg Index C-13004125		TBKK (Headland) Co., Ltd.		Rev No. 00		Research & Development Dept.		Part No. 1377		APPROVED	INITIATED	DATE		M. Ito	John Chonko	10-Nov-12	
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M. Ito	John Chonko	10-Nov-12																							

RECEIVED

CAUTION

THIS DRAWING SHOWS THAT MMC RECEIVED THE DRAWING OF THE PART(S) AND/OR ASSEMBLY WHICH SUPPLIER DESIGNED IN DETAIL TO MEET MMC'S REQUIREMENTS AND DOES NOT GIVE FURTHER WARRANTY TO SUPPLIER.
SUPPLIER SHALL BE RESPONSIBLE FOR HAVING THE PART(S) AND/OR THE ASSEMBLY MEET MMC'S REQUIREMENTS SHOWN ON THE SPEC. CONTROL DRAWING WITHOUT INFRINGING UPON THIRD PARTY'S INDUSTRIAL RIGHTS(PATENT, MANUFACTURING RIGHT, ETC.).



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*		MSB2-5000-1	* CONTROL CRITERIA OF SUBSTANCES OF CONCERN	
*		MSB1-2035	* COMMERCIAL TOLERANCES AND MACHINING ALLOWANCES (CASTINGS)	CT6
*		MSB1-2021	* GENERAL TOLERANCES (MACHINING)	M CLASS
*		MSB1-1332-2	* EXPORT TRADE CONTROL ORDER	
*		ES-X56901	* CONTROLLED SUBSTANCES FOR USE	
*		ES-X14001	A WATER PUMP FOR AUTOMOBILES	
		SPEC NO.	CL	SPEC NAME
				REMARKS

FOR RECEIVED DRAWING MITSUBISHI MOTORS CORPORATION

CONFIDENTIAL

(CONFIDENTIAL)

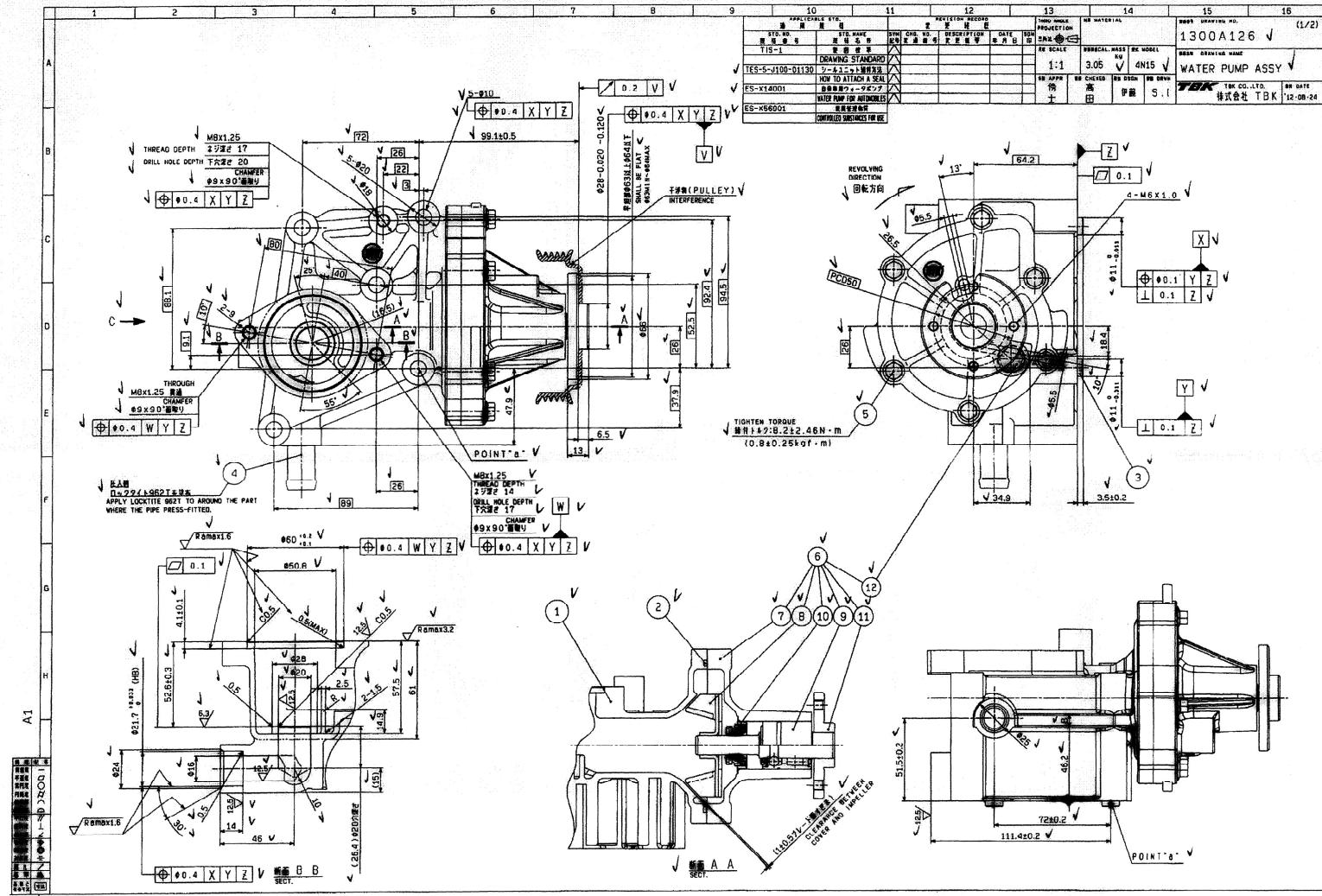


9	APPROVAL STAMP	10	11	12	13	14	15	16
	ST. NO.	ST. NAME	STW. CHN. NO.	DESCRIPTION	DATE	ISSUE	DRAWING NO.	REVISION NO.
	規格番号	規格名	機種番号	記述	年月日	発行		(1/2)
	TIS-5	TIS-5						
	TIS-5-J10-01130	DRAWING STANDARD						
		スケッチ等の標準						
	ES-X14001	HOW TO ATTACH A SEAL						
		シールの貼り方						
	ES-X56901	UNPACKING CHECKLIST						
		開封確認用リスト						
		CONTINUE ON BACK FOR USE						

ORIGINAL	Inv. Index C.130297-125	
TKKK (Thailand) Co.,Ltd.	Rec. No. 00	
Research & Development Dept.	Ref. Doc. DCR/T2-132	
APPROVED	CHECKED	DATE
m.sae	M. Chomphu	10-Dec-12



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11
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NOTES 1. PRESS FITTING STRENGTH

TRACTIVE FORCE FOR ANY DIRECTION AT ROOM TEMPERATURE BETWEEN DRIVE AND THE COMPONENT AS BELOW SHOULD BE KEPT FOLLOWING FORCE.

- ✓ CENTER AND SHAFT : MIN6.86KN(699.5kgf)
- ✓ IMPELLER AND SHAFT : MIN3.80KN(397.7kgf)
- ✓ BRG UNIT AND CASE : MIN6.80KN(699.5kgf)

2. INSTALLED SHAFT SHALL BE SMOOTH TO ROTATE.

3. USE CONDITIONS SHALL CONFORM TO FOLLOWING.

✓ BELT LAYOUT DRIVING PUMP: FIG. 1

✓ USE CONDITIONS.

- ✓ MAXIMUM OUTPUT SPEED: 7224 rpm
- ✓ INITIAL BELT TENSION IN USE: 0.633kN(60.0kgf)
- ✓ BELT TENSION IN BEARING LIFE TEST SHALL BE 0.540kN(55.1kgf) (SAFETY RATIO 3.2 CONSIDERED)
- ✓ BELT TENSION IN DURABILITY TEST OF CONTINUOUS HIGH SPEEDS(X14601 SMALL 0.1040kN(106.1kgf))
- ✓ USE CONDITIONS OF VARIABLE LOADS
- ✓ TARGET LIFE MILEAGE : MORE THAN 300,000HM

✓ SET UP FOLLOWING FUNCTIONS TO WATER PUMP BODY DRAW POCKET AND VAPOR DRAIN HOLE.

NOTES 2. AIR LEAK TEST

1. 駆動部合歯部 引き気力を有する方向を下記を満足すること。(常温時)

- ✓ CENTER AND SHAFT 6.66kN (699.5kgf)以上
- ✓ IMPELLER AND SHAFT 3.90kN (397.7kgf)以上
- ✓ BRG UNIT AND CASE 6.80kN (699.5kgf)以上

2. 起立後、BRG SHAFTの回転は内潤であること。

3. 用途条件は、以下の通りとする。

- 1) ベルトレイアウト: 図1による。
- 2) 作用名。

✓ W/P 駆動部合歯部 : 7224 rpm

✓ 駆動ベルト張力 : 0.633kN (60.0kgf)

✓ 食材側のベルト張力 : 0.588kN (60.0kgf)

✓ ベルトソリューションを引くべき張力 : 0.540kN (55.1kgf) (安全率3.2を考慮)

✓ 運転高速耐久テストのベルト張力 : 1.040kN (106.1kgf) (0.5kgf 増加を考慮)

✓ 自動排水マイレージ : 300,000HM以上

✓ W/P CASEを本体に穴あけ、蓋板開穴を付けること。

NOTES 3. WATER PUMP ASSY

WATER PUMP WATER PERFORMANCE TEMPERATURE
2-9℃(25°F)水温: 本温 BOT

REVOLUTION SPEED 回転数	PRESSURE 圧力	FLOW 流量
2300rpm ✓	30kPa ✓	70L/min以上
5500rpm ✓	180kPa ✓	180L/min以上

NOTES 4. MATERIAL

ITEM 部品名	STO. NO. 部品番号	STO. NAME 部品名	ITEM NO. 部品番号	DESCRIPTION 部品名	DATE 日付	REV. NO. 改修番号	PROJECTION 工程	RE MATERIAL 部材
A 轴	115-1	轴	101-1	軸	0000	1	1:1	FRANCAIS MARQUE MODEL KO
B 轴承	ES-X14001	軸承	ES-X14001	軸承	0000	AB APPR AB APPROVED	BR CHARTED BR CHARTED	伊藤 S.I.
C 泵壳	ES-X56901	泵壳	ES-X56901	泵壳	0000	RE DESIGN RE DESIGN	伊藤 S.I.	日本 JPN

NOTES 5. DRAWING NO.

15	16
1300A126	(2/2)
TRK CO., LTD. TBK	
TBK	
12-08-24	

NOTES 6. WATER PUMP PERFORMANCE

WATER TEMPERATURE 水温	SEE DRAWING 図面参照	REMARK 備考
2-9℃(25°F)水温: 本温 BOT	SEE DRAWING 図面参照	ASSY水温2-9℃(25°F)水温: 本温 BOT
REVOLUTION SPEED 回転数	PRESSURE 圧力	FLOW 流量
2300rpm ✓	30kPa ✓	70L/min以上
5500rpm ✓	180kPa ✓	180L/min以上

NOTES 7. PARTS LIST

ITEM NO.	DESCRIPTION	PLUG	X SPCC
1 12 U199-20030	PLUG	X SPCC	
1 11 U123-13800	CENTER	X S20C	
1 10 U117-04300	SEAL UNIT	X MC-2000ES-40 MC-2000ES-40 MC-2000ES-40	
1 9 U113-10500	B-R-G UNIT	X 30DX30 Roller&Ball	
1 8 U115-16400	IMPELLER	X SPCE	
1 7 U105-39200	CASE,WATER PUMP	X ADC12	
1 6 U100-21800	WATER PUMP	X MC-2000ES-40	
6 5 MF140209	BOLT	X M6x1.0	
1 4 U145-00600	PIPE	X	
2 3 MS471104	BUSHING	X	
1 2 U199-26700	O-RING	X EPDM	
1 1 U107-10100	COVER,WATER PUMP	X ADC12	
TBK 品番 納入品番		名 称 量 単	



ORIGINAL		Dng Index C. 130007125
TBKK (Thailand) Co.,Ltd.		Rev No. 00
Research & Development Dept.		Ref Doc RCVT2-130
APPROVED	CHECKED	DATE
<i>M. Sase</i>	<i>ABC Channel</i>	10-Dec-12

