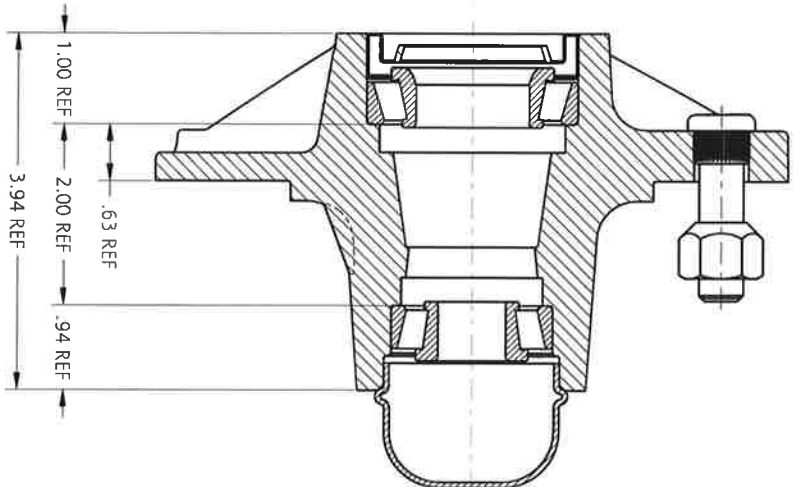
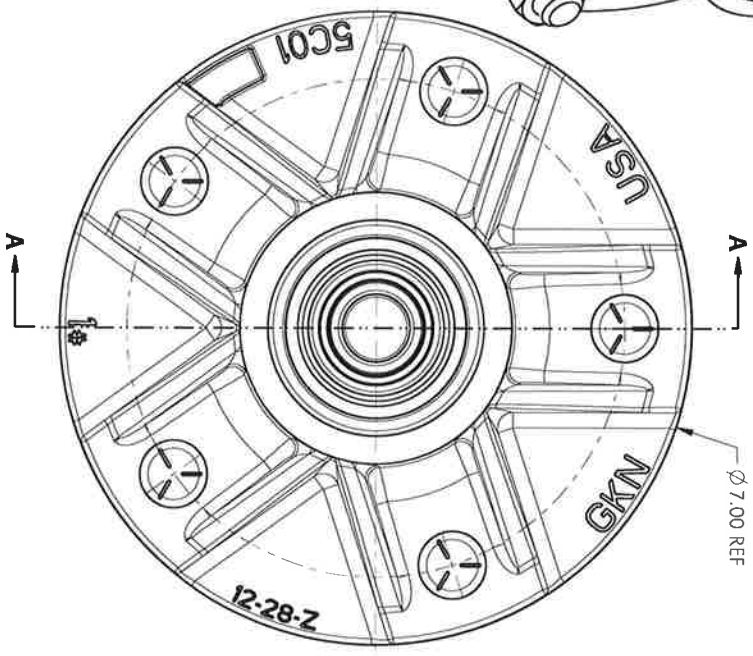
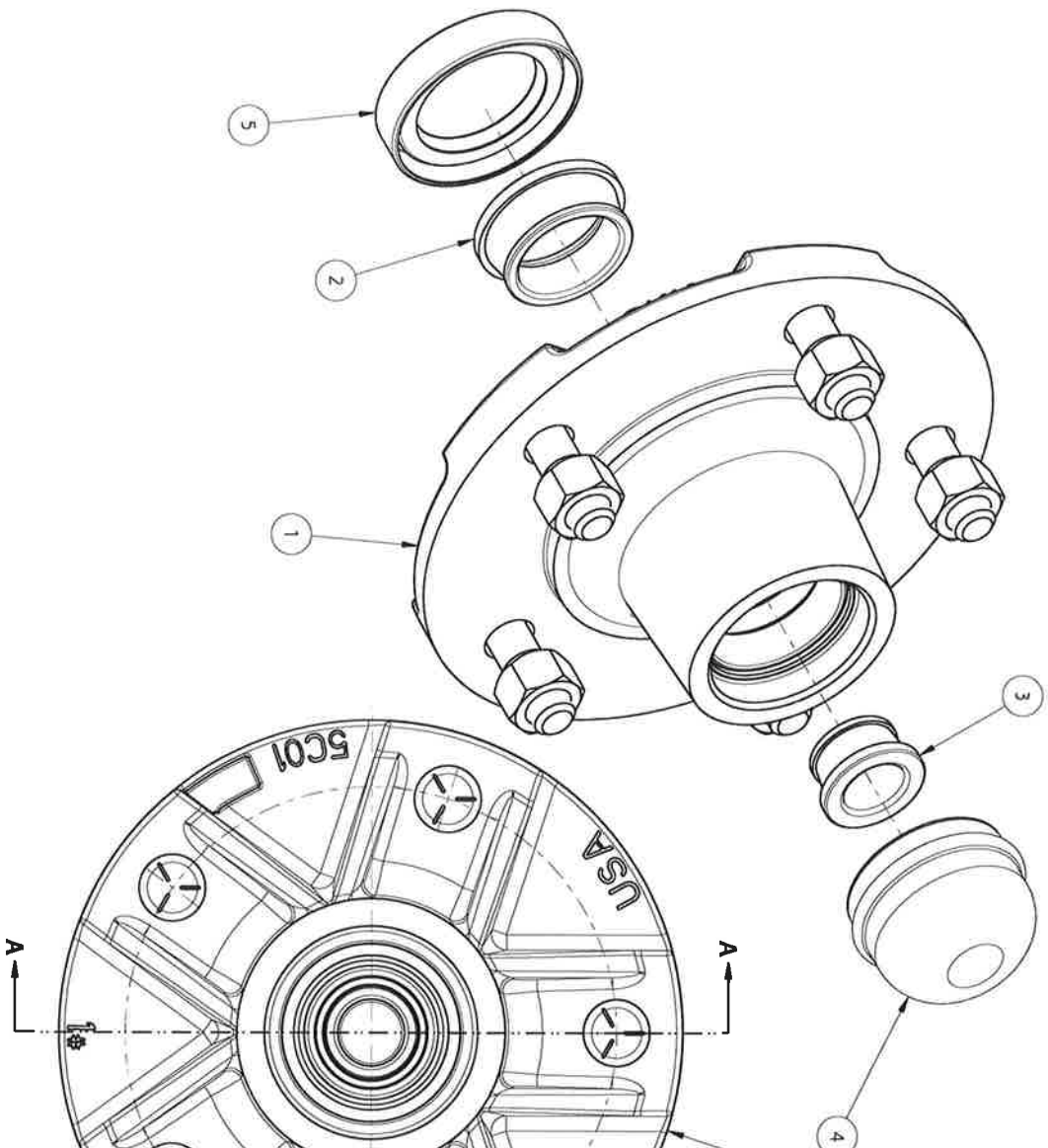


ZONE	REV	DESCRIPTION	NP NO	BY	REVISION DATE
A4	D	REDRAWN TO PROE FORMAT. D) P502051 WAS P502005.	AT1-087	BRL	7/31/11



SECTION A-A

ID	QTY	PART NO	DESCRIPTION
1	1	L205300-5	HUB SUB ASSEMBLY
1	1	L205400-5	HUB MACHINING
1	1	P702203	BEARING CLIP LM67010 - PEER
1	1	P702210	BEARING CLIP LM11910 - PEER
5	5	P751401	BOLT STUD 1/2-20 UNF X 1-7/8, GRADE 5, (BLACK)
5	5	P201602	NUT STUD 1/2-20 UNF, CLEAR ZP
2	1	P752311	BEARING CONE LM67048 - PEER
3	1	P752305	BEARING CONE LM11949 - PEER
4	1	P502051	HUB CAP HTW
5	1	P602111	GREASE SEAL - CR 14974

DIMENSIONS ARE FOR REFERENCE ONLY	ORIGINAL SER	CUSTOMER	NO OF BOLTS	BOLT CIRCLE	PILOT DIA	WEIGHT	CAPACITY
	XXXX	KM	06-13-83	5	5.50" (139.70)	4.00" (101.55)	2000 LBS
		JH	06-30-83				
		APPROVED BY	06-30-83				
		ENGINEERING RELEASE DATE	N/A				

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DIMENSION INCHES (mm)

ORIGINAL SER XXXXX **CUSTOMER** KM **NO OF BOLTS** 5 **BOLT CIRCLE** 5.50" (139.70) **PILOT DIA** 4.00" (101.55) **WEIGHT** 10.70 LBS **CAPACITY** 2000 LBS

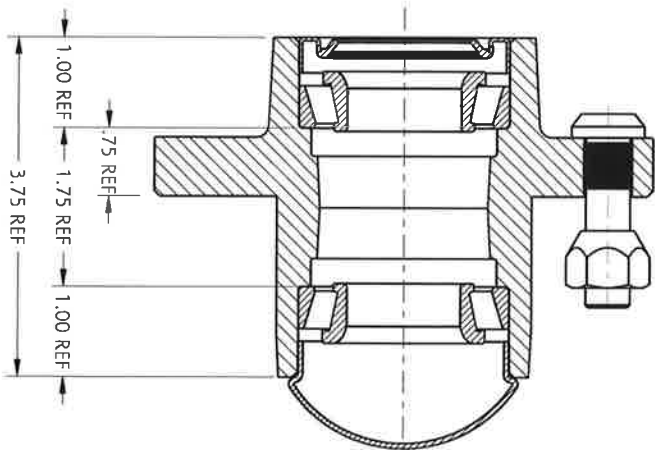
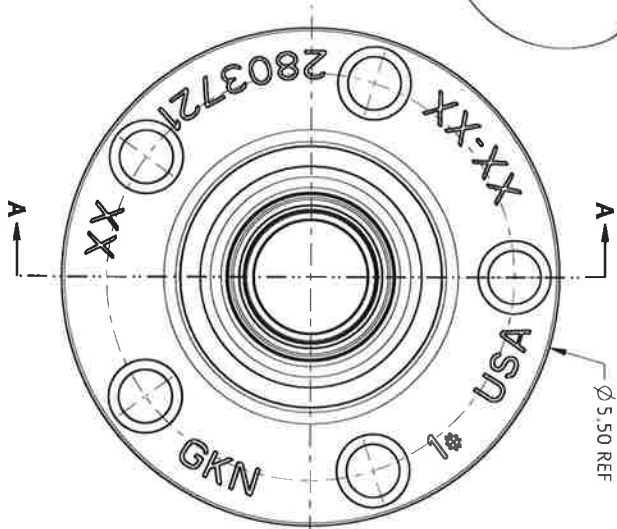
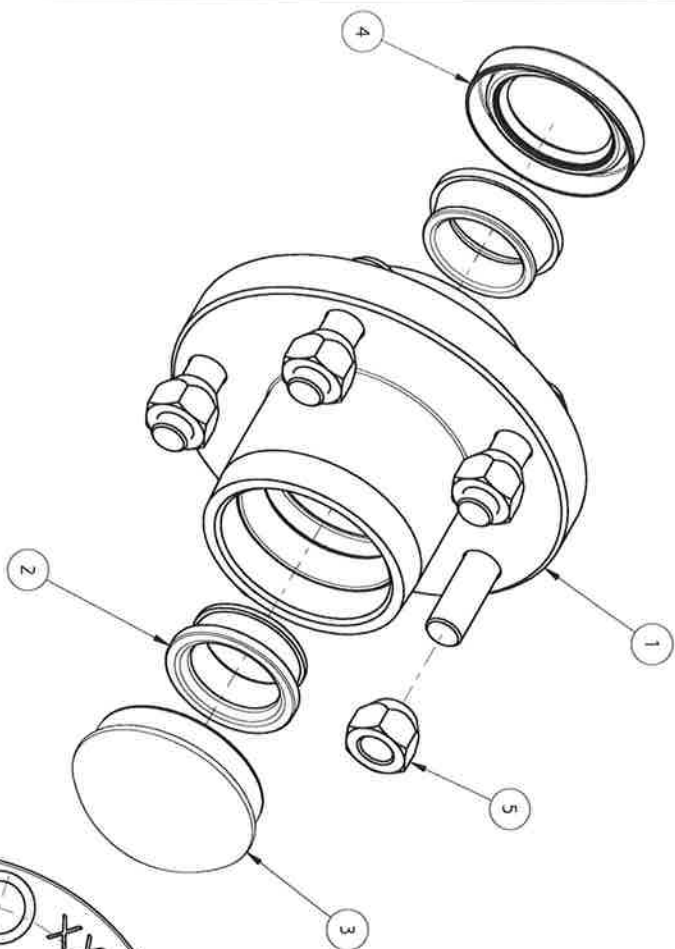
MATERIAL: SAE G-3000 GRAY IRON

HUB ASSEMBLY

L205202-5

REV D **VERSION**

ZONE	REV	DESCRIPTION	NPI NO.	BY	REVISION DATE
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SECTION A-A

BILL OF MATERIAL

ID	QTY	PART NO.	DESCRIPTION
1	1	L545312-5	HUB SUB ASSEMBLY
1	>	L545412-5	HUB MACHINING
2	>	P702335	BEARING CUP LM67010 - KOYO
2	>	P151423	BOLT STUD 1/2-20 UNF X 1-7/8", GRADE 5 (BLACK)
2	2	P752442	BEARING CONE LM67048 - KOYO
3	1	P502056	HUB CAP 1601
4	1	P602149	GREASE SEAL - TC15233VHY
5	5	P201603	NUT WHEEL 1/2-20 UNF, 60 DEG., GRADE 2, ZP

DIMENSIONS ARE FOR REFERENCE ONLY	ORIGINAL SER	ATT-101	CUSTOMER	NO. OF BOLTS	BOLT CIRCLE	PILOT DIA.	WEIGHT	7.66 LBS	CAPACITY
	DRAWN BY	BRL	9/13/11	5	4.50" (114.3)	2.81" (71.4)	1500 LBS		
	CHECKED BY	-	-						
	APPROVED BY	-	-						
	ENGINEERING RELEASE DATE	-	-						

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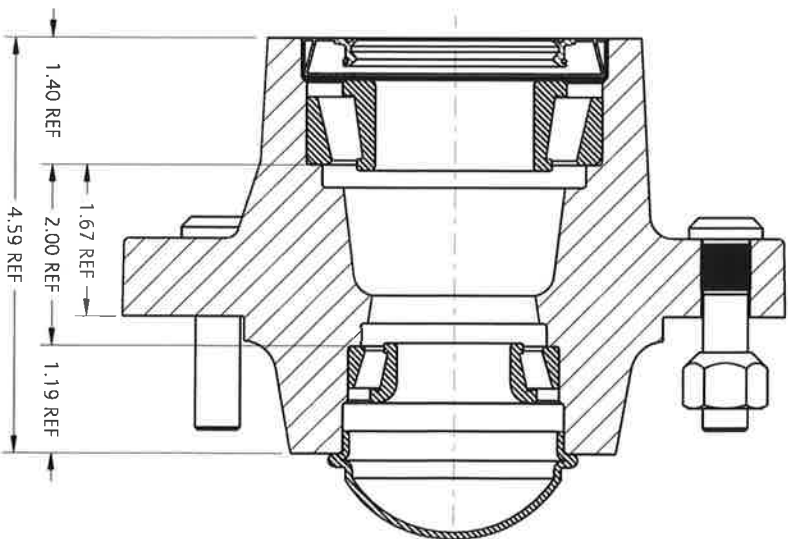
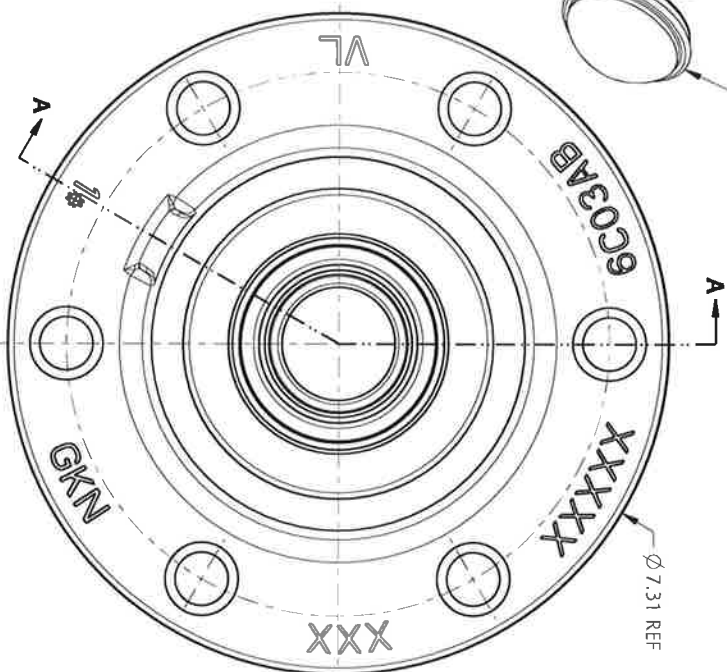
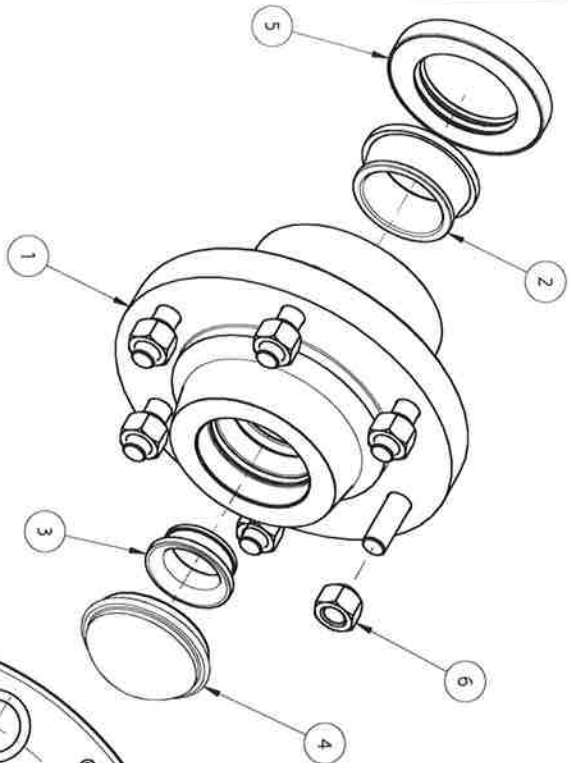


GKN Armstrong Wheel
Armstrong, IA 50514

L545212-5

REV
VERSION

REV	DESCRIPTION	SER. NO.	BY	CHK'D	APPR'D	ENG. RELEASE DATE
A	P602148 WAS 02/0015-00	A10-53B	BRL	-	-	12/13/10



SECTION A-A

ID	QTY	PART NO.	DESCRIPTION
1	1	L614308-6	HUB SUB ASSEMBLY
1	1	> L614408-6	HUB MACHINING
1	1	> P702201	BEARING CUP LM67010 - PEER
1	1	> P702203	BEARING CUP LM67010 - PEER
1	1	> P151428	STUD BOLT 1/2-20 UNF X 2-1/8, GRADE 5, ZP
2	1	P752405	BEARING CONE LM67048 - PEER
3	1	P752311	BEARING CONE LM67048 - PEER
4	1	P502026	HUB CAP HTW
5	1	P602148	GREASE SEAL CR 22532 OR TC 22334TA22334TA-H
6	6	P201602	NUT WHEEL 1/2-20 UNF, ZP

DIMENSIONS ARE FOR REFERENCE ONLY	ORIGINAL SER	CUSTOMER	NO. OF BOLTS	BOLT CIRCLE	PILOT DIA.	WEIGHT	CAPACITY
	10-523	6/30/10	6	6.00" (152.4)	4.62" (117.3)	19.73 LBS	-

MATERIAL: SAE G-3000 GRAY IRON

ENGINEERING RELEASE DATE: N/A

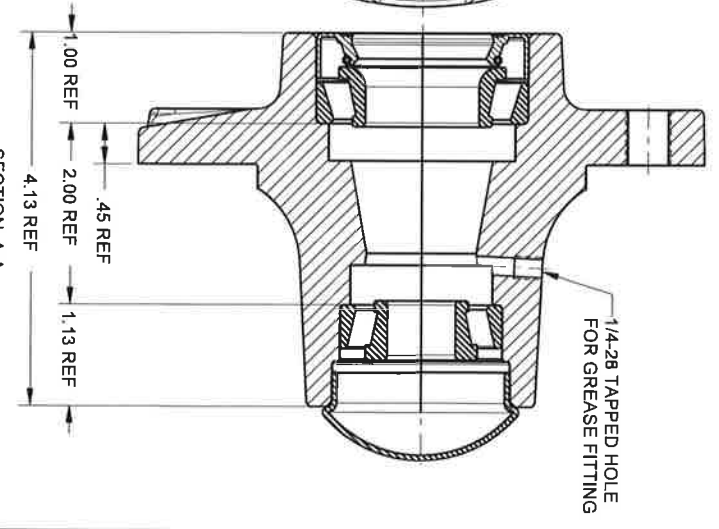
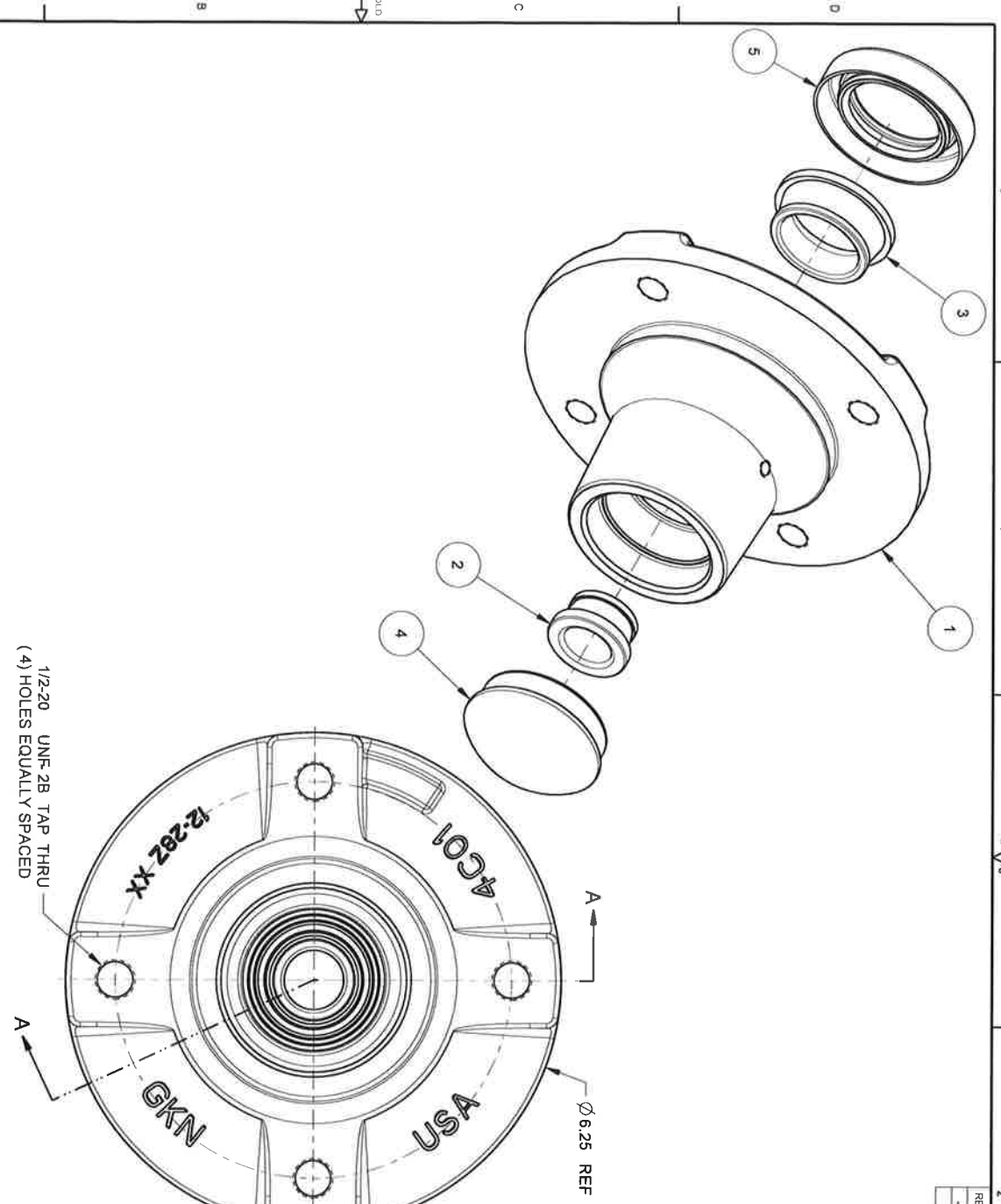


GKN Armstrong Wheel
Armstrong, IA 50514

L614208-6

REV A
VERSION

REV	DESCRIPTION	SER NO.	BY	CHK'D	APPRO'D	ENG. RELEASE DATE
-	REDRAWN TO PRO/E FORMAT	06-228	OTL	WIE	-	12-08-06



ID	QTY.	PART NO.	DESCRIPTION
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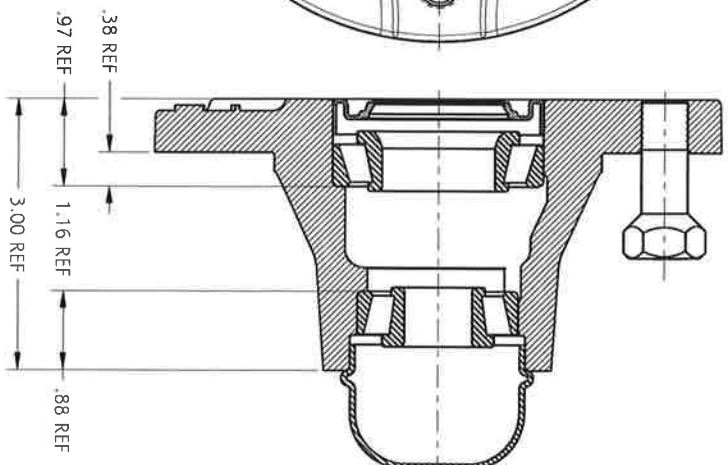
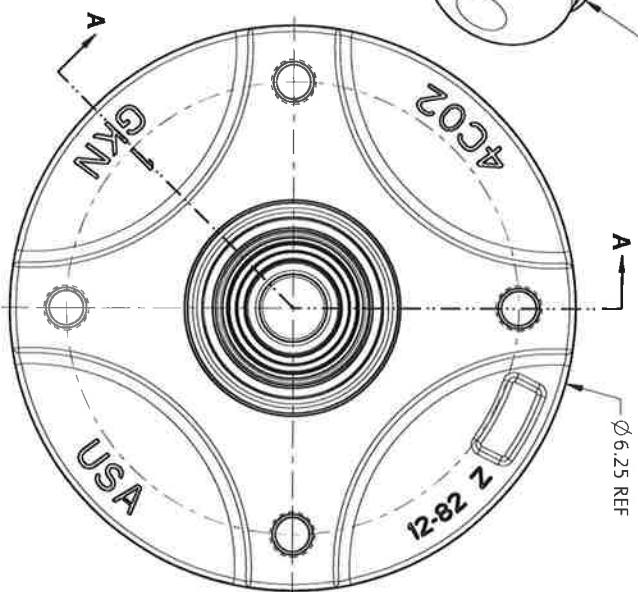
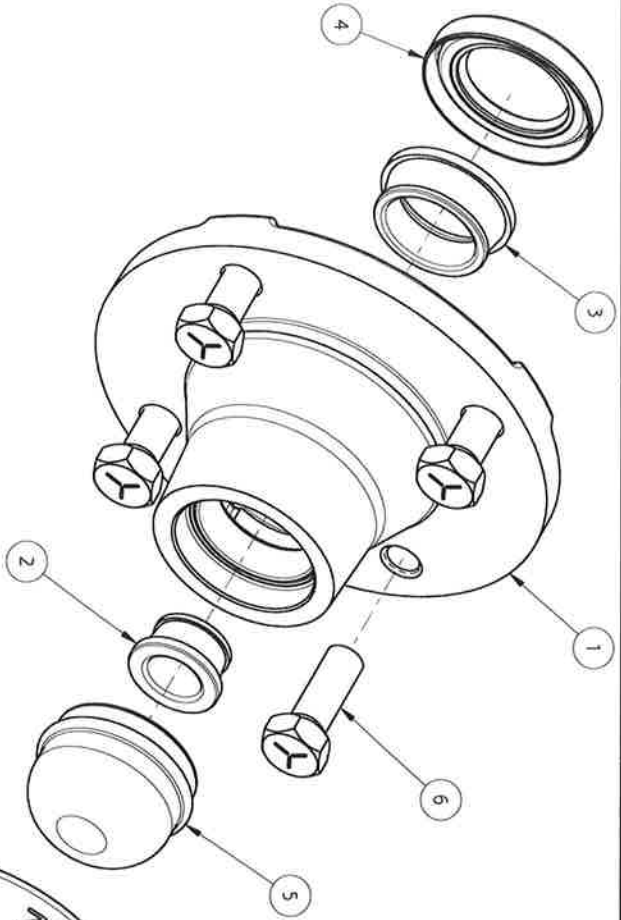
1	1	L633005-4-20	HUB SUB ASSEMBLY
1	1	> L633405-4-31	HUB MACHINING
1	1	> P702203	BEARING CUP LM67010 - PEER
1	1	> P702210	BEARING CUP LM11910 - PEER
2	1	P752305	BEARING CONE LM11949 - PEER
3	1	P752311	BEARING CONE LM67048 - PEER
4	1	P602003	HUB CAP 1610 HTW
5	1	P602137	GREASE SEAL 1.500 DIA SHAFT X 2.332 OD X .500 WIDE

DIMENSIONS ARE FOR REFERENCE ONLY	ORIGINAL SER	XX-XXX	CUSTOMER	NO. OF BOLTS	BOLT CIRCLE	PILOT DIA.	WEIGHT	8.79 LBS
CHECKED BY	OTL	12-01-06	4	5.00(127.0)	3.62(92.0)	1500 LBS		
APPROVED BY								
ENGINEERING RELEASE DATE			N/A					

DIMENSION (INCHES) (mm)	THIS DRAWING IS THE PROPERTY OF GKN Armstrong Wheel, Inc. It is to be used only for the purpose specified. Copies and associated drawings must be returned upon request.	MATERIAL: SAE G-3000 GRAY IRON
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	GKN Armstrong Wheel, Inc. 38514	L633205-4-20	REV	*
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ZONE	REV	DESCRIPTION	NPI NO.	BY	REVISION DATE
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SECTION A-A

ID	QTY	PART NO.	DESCRIPTION
1	1	L669303-4	HUB SUB ASSEMBLY
2	1	L669402-4	HUB MACHINING
3	1	P702335	BEARING CUP LM67010 - KOYO
4	1	P702246	BEARING CUP LM11910 - KOYO
5	1	P752345	BEARING CONE LM11949 - KOYO
6	1	P752442	BEARING CONE LM67048 - KOYO
7	1	P602149	GREASE SEAL - 1.50X2.33X.39
8	1	P502051	HUB CAP HTW
9	4	P101308	BOLT WHEEL 1/2-20 UNF X 1-1/4, GRADE 5, ZP

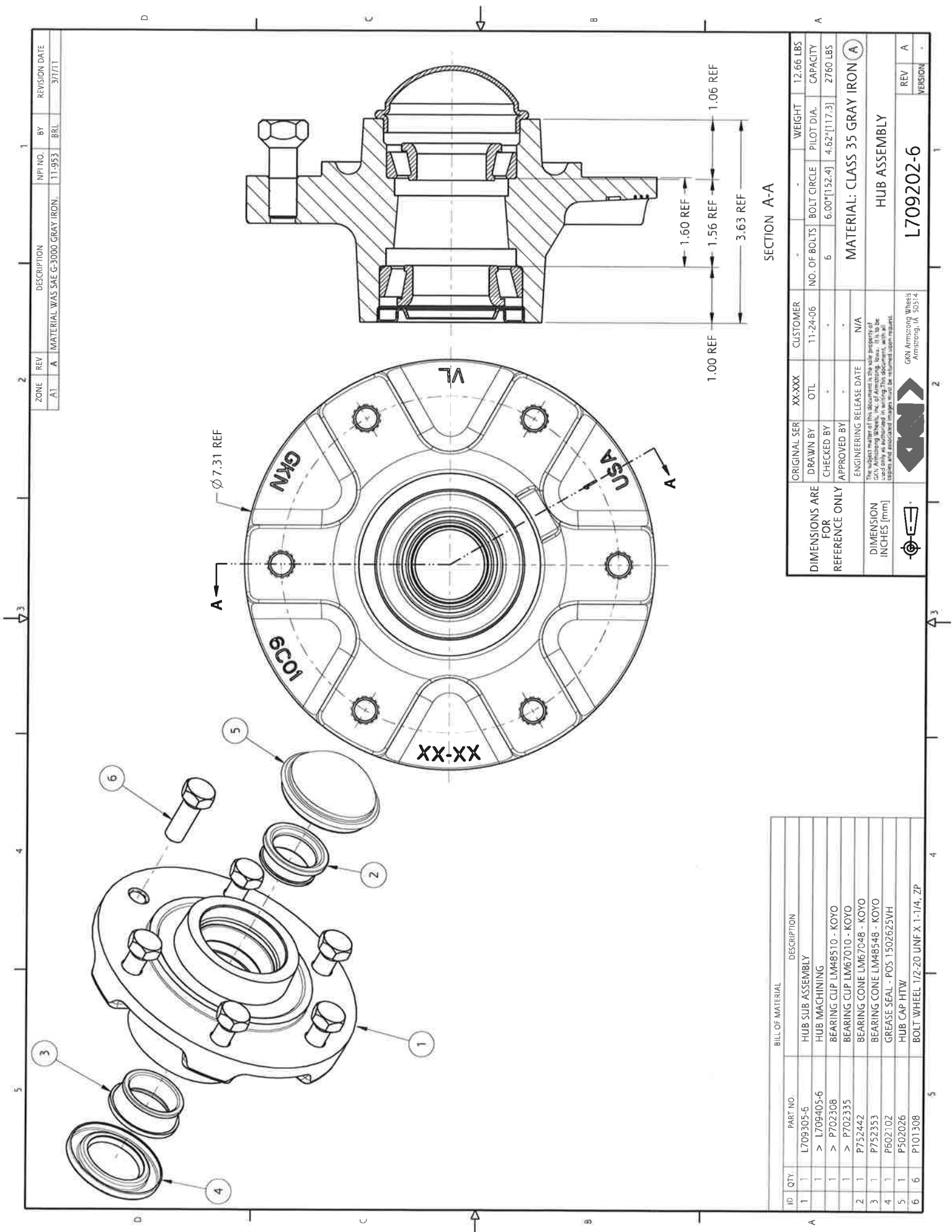
ORIGINAL SER	XX-XXX	CUSTOMER	11-10-06	NO. OF BOLTS	BOLT CIRCLE	PILOT DIA.	WEIGHT	7.45 LBS
DIMENSIONS ARE FOR REFERENCE ONLY	CHECKED BY	OTL	-	4	5.00 (1.270)	3.62 (91.8)	CAPACITY	1250 LBS
DIMENSION INCHES (mm)	APPROVED BY	-	-	5.00 (1.270)	3.62 (91.8)	1250 LBS	MATERIAL: SAE G-3000 GRAY IRON	
	ENGINEERING RELEASE DATE	-	-	5.00 (1.270)	3.62 (91.8)	1250 LBS	HUB ASSEMBLY	



GKN Armstrong Wheels
Armstrong, IA 50514

L669207-4

REV
VERSION

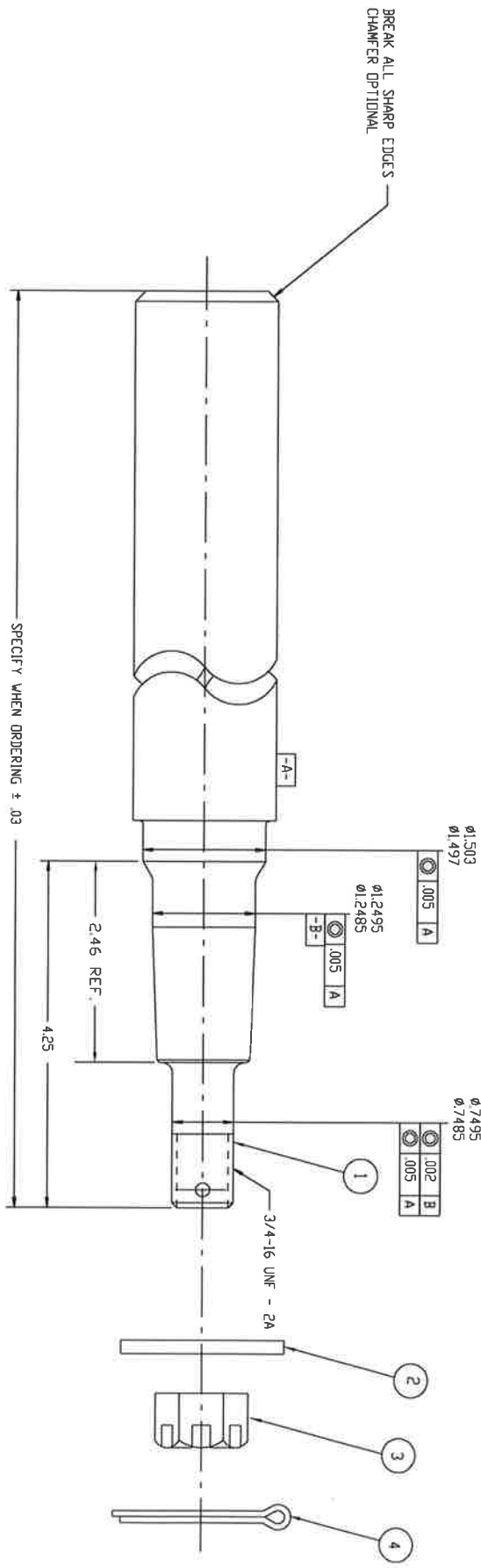


ZONE	REV	DESCRIPTION	NPI NO.	BY	REVISION DATE
A1	A	MATERIAL WAS SAE G-3000 GRAY IRON.	11-953	BRL	3/7/11

SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY	ORIGINAL SER	XX-XXX	CUSTOMER	*	*	WEIGHT	12.66 LBS
	DRAWN BY	OTL	11-24-06	NO. OF BOLTS	BOLT CIRCLE	PILOT DIA.	CAPACITY
	CHECKED BY	*	*	6	6.00" [152.4]	4.62" [117.3]	2760 LBS
	APPROVED BY	*	*				
	ENGINEERING RELEASE DATE	N/A					
DIMENSION INCHES [mm]	MATERIAL: CLASS 35 GRAY IRON (A)						
	HUB ASSEMBLY						
	L709202-6						REV A
	GKN Armstrong Wheels Armstrong, IA 50314						VERSION

BILL OF MATERIAL			DESCRIPTION
ID	QTY	PART NO.	
1	1	L709305-6	HUB SUB ASSEMBLY
2	1	L709405-6	HUB MACHINING
3	1	P702308	BEARING CUP LM48510 - KOYO
4	1	P702335	BEARING CUP LM67010 - KOYO
5	1	P752442	BEARING CONE LM67048 - KOYO
6	1	P752353	BEARING CONE LM48548 - KOYO
7	1	P602102	GREASE SEAL - POS 1502625VH
8	1	P502026	HUB CAP HTW
9	6	P101308	BOLT WHEEL 1/2-20 UNF X 1-1/4, ZP



THIS SPINDLE IS USED IN THE FOLLOWING HUBS:
633, 736, 511

BILL OF MATERIAL

QTY.	ID	PART NO.	DESCRIPTION
1	1	LS7151	MACHINE SPINDLE
1	2	P201802	SPINDLE WASHER
1	3	P251703	SPINDLE NUT 3/4-16 UNF
1	4	P401905	COTTER PIN 5/32 DIA.

PARTS LIST

PROTECTIVE FINISH	CUSTOMER	REF. NO.
UNFINISHED		

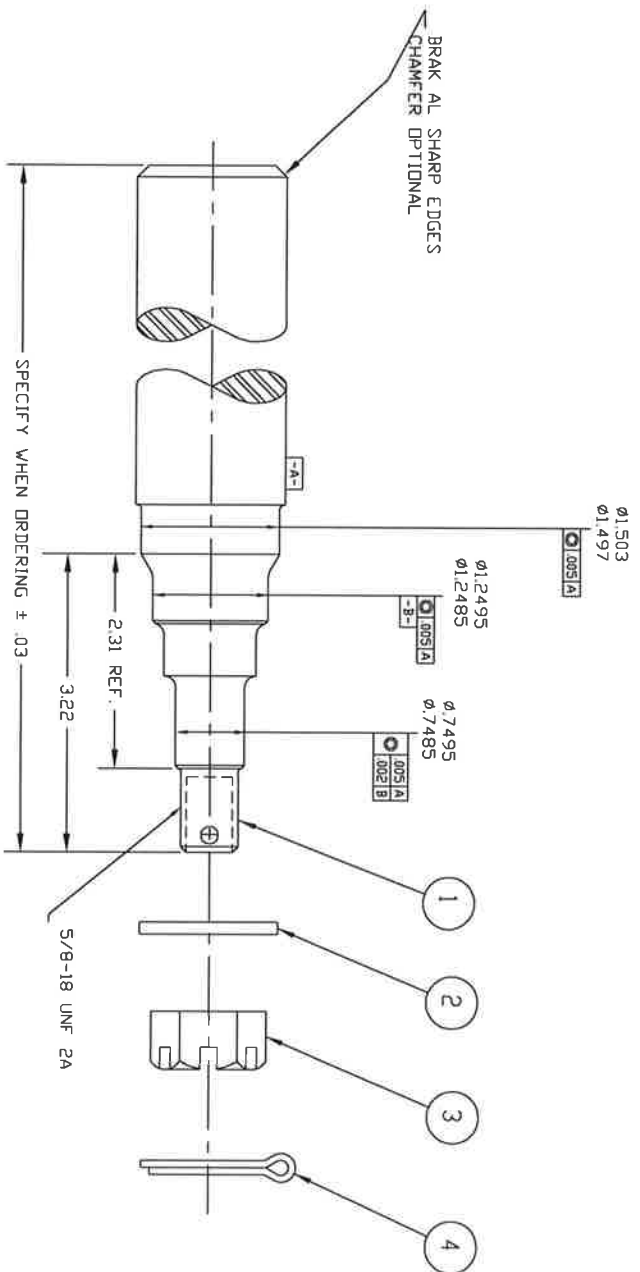
TO FINISH (UNLESS OTHERWISE SPECIFIED)	DATE	REV.	BY
1 PLACE +/- .030 (0.8mm)	2-14-83		
2 PLACE +/- .015 (0.4mm)	2-14-83		
3 PLACE +/- .005 (0.1mm)			
ANGLES +/- .1			
FRACTIONS +/- .1			
CAD-SYS AUTOCAD			

GKN Armstrong Wheels
Armstrong, IA 50514

PROJECTION	DIMENSION (mm) INCHES	MATERIAL	CRS C1045
1-3/4" DIA.			

CHANGE LETTER	DESCRIPTION	ECR NO.	BY	DATE
C	REDRAWN AND REMOVED ALL REVS.	RP	3-6-03	

LS5151



LS5547

THIS SPINDLE IS USED IN THE FOLLOWING HUBS:
669

BILL OF MATERIAL

QTY. ID	PART NO.	DESCRIPTION
1	1	LS7547 MACHINE SPINDLE
1	2	P301801 SPINDLE WASHER
1	3	P251701 SPINDLE NUT 5/8-18 UNF
1	4	P401901 COTTER PIN 5/32 DIA.

PARTS LIST

VT.

PROTECTIVE FINISH

DR. FOR DR-XXX

FINISHES

TOLEANCE (UNLESS

OTHERWISE SPECIFIED)

DECIMAL

1 PLACE +/- .030 (0.8mm)

2 PLACE +/- .015 (0.4mm)

3 PLACE +/- .005 (0.1mm)

ANGLES +/- .1

FRACTIONS +/-

CAD-SYS AUTOCAD

MATERIAL

CUSTOMER NO. REF. NO.

GKN Armstrong Wheels
Armstrong, IA 50514

SPINDLE ASSEMBLY

1-5/8" DIA.

LS5547

SHEET 1 OF 1
SCALE NONE

B	REDRAWN AND REMOVED REVS.	RP	6-18-03
DATE	DESCRIPTION	BY:	DATE: