KIRBY-SMITH MACHINERY, INC.

www.kirby-smith.com

8505 S Central Expwy

Ship To: CUSTOMER PICK UP

KSM EXCHANGE LLC
P.O. Box 270360
Oklahoma City, OK 73137

ACH OR WIRE

Branch		
DALLAS		
Date	**Time**	**Page**
09/04/24	22:27:24 (B)	01

Via

ID No

Salesperson 235

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

SEGMENT# 1 C PA09 MULTIPLE 08/07/24 08/07/24 08/14/24
MULTIPLE 48.00 HRS
HRS

1. TEAR DOWN HAMMER FOR INSPECTION (990-001-04) 6.00
   . COMPLETE MODERN INSPECTION, TAKE PICTURES.
   . REMOVE THE TOOL FROM THE HAMMER.
   . REMOVE NOTROGEN CHARGE FROM HAMMER BEFORE DISASSEMBLY.
   . USE NPK CHARGE ADAPTER, INSTALL AND RELEASE PRSSURE.
   . PLACE HAMMER ON WOODEN BLOCKS, REMOVE BRACKET BOLTS, SUPPORT BLOCK, WEAR PADS AND HAMMER BRACKET ASSY.
   . SECURE KEY PLATES WITH BOLT AND LIFT HAMMER OUT OF BRACKET.
   . USE A SLING AND OVERHEAD TO REMOVE TOOL HOLDER.
   . REMOVE BOLT AND KEY PLATE.
   . REMOVE BRACKET BOLTS, BLOCKS, WEAR PAD, SPACER PLATE, STOPPER AND TOP PLATE.
   . DISASSEMBLE MAIN BODY, REMOVE GAS HEAD NUTS IN CORRECT ORDER.
   . USE A CROSS PATTERN
   . REMOVE PISTON SLEEVES, HYD OIL WILL COMEOUT.
   .***USE CORRECT TOOL, DO NOT PRY OUT***
   . ***FOLLOW CORRECT PROCEDURES FOR TEARDOWN OF SLEEVES***
   . REMOVE MAIN SPOOL VALVE AND PLUGS.
   . USE NYLON BAR FOR REMOVAL OF PISTON, SLEEVES, BUSHINGS.

CONTINUED ON PAGE 02

KIRBY-SMITH MACHINERY, INC.

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PLEASE REMIT TO:

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P.O. Box 270360
Oklahoma City, OK 73137

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Tax ID No	
	Salesperson 235

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

2. INSPECT AND MEASURE HAMMER COMPONENTS 2.00
(990-001-05)
. INSPECT HAMMER FOR INTERNAL DAMAGES, INCLUDING SEALING
SURFACES.
.
. CHECK FOR ANY DAMAGES TO OUTER HAMMER.
.
. MEASURE COMPONENTS PER NPK, RECORD MEASUREMENTS AND SUBMIT TO NPK.

---

3. REPLACE TOOL IN HAMMER (990-001-07) 1.50
. IF HAMMER IS ON A MACHINE, PARK MACHINE ON LEVEL GROUND.
. DISCONNECT BATTERIES AND LOCKOUT/TAG OUT MACHINE.
. REMOVE TOOL RETAINING SEAL AND PIN.
. INSPECT RETAINING SEAL AND PIN, REPLACE IF NEDED.
. USE CORRECT RIGGING TO REMOVE TOOL.
. REMOVE TOOL AND INSTALL NEW TOOL.
. INSTALL THE PIN AND SEAL.
. IF HAMMER IS MOUNTED ON MACHINE, STAND HAMMER UP AND APPLY DOWN PRESURE TO THE TOOL.
.
*****IF YOU DO NOT GREASE PROPERLY, YOU WILL CAUSE DAMAGE
TO THE HAMMERS INTERNAL PARTS*****
.
. ****TWO WAYS TO GREASE****
.
******IF YOU DO NOT GREASE PROPERLY,YOU WILL CAUSE

CONTINUED ON PAGE 03

KIRBY-SMITH MACHINERY, INC.

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SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

DAMAGE
TO HAMMERS INTERNAL PARTS.******
.
. IF NO AUTO LUBE, GREASE THROUGH THE GREASE ZERT WITH GREASE GUN UNTIL GREASE COMES OUT FROM HAMMER BETWEEN TOOL
AND TOOL BUSHING.
.
. IF MACHINE HAS AN AUTO LUBE, APPLY PRESSURE TO TOOL. UNHOOK GREASE LINE AND INSTALL GREASE ZERT. GREASE DIRECTLY
INTO HAMMER OR GREASE LINE UNTIL GREASE COMES OUT BETWEEN
TOOL AND TOOL
BUSHING.
.

---

4. REBUILD AND RESEAL HAMMER (990-010-01) 36.00
. COMPLETE MODERN INSPECTION, TAKE PICTURES.
. PLACE HAMMER ON WOODEN BLOCKS, REMOVE BRACKET BOLTS, SUPPORT BLOCK, WEAR PADS AND HAMMER BRACKET ASSY.
. REMOVE NOTROGEN CHARGE FROM HAMMER BEFORE DISASSEMBLY.
. USE NPK CHARGE ADAPTER, INSTALL AND RELEASE PRSSURE.
. SECURE KEY PLATES WITH BOLT AND LIFT HAMMER OUT OF BRACKET.
. USE A SLING AND OVERHEAD TO REMOVE TOOL HOLDER.
. REMOVE BOLT AND KEY PLATE.
. REMOVE BRACKET BOLTS, BLOCKS, WEAR PAD, SPACER PLATE, STOPPER AND TOP PLATE.

CONTINUED ON PAGE 04

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	Salesperson 235

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

. DISASSEMBLE MAIN BODY, REMOVE GAS HEAD NUTS IN CORRECT
ORDER.
. USE A CROSS PATTERN
. REMOVE PISTON SLEEVES, HYD OIL WILL COMEOUT.
.***USE CORRECT TOOL, DO NOT PRY OUT***
. ***FOLLOW CORRECT PROCEDURES FOR TEARDOWN OF SLEEVES***
. REMOVE MAIN SPOOL VALVE AND PLUGS.
. USE NYLON BAR FOR REMOVAL OF PISTON, SLEEVES, BUSHINGS.
. INSPECT HAMMER FOR INTERNAL DAMAGES, INCLUDING SEALING
SURFACES.
. CHECK CLEARANCE OF TOOL BUSHING
***FOR REASSEMBLY, CHECK THE PORT-CHART FOR TORQUE SPEC AND
O-RING P/N*****
.
. ****REASSEMBLY-REFER TO SERVICE MANUAL FOR SPECS****
.
. LIGHTLY OIL SLEEVE BEFORE INSTALLING
. APPLY HYD OIL TO RINGS. PISTON SEALS AND DIRT SEALS.
. APPLY HYD OIL OR NPK ASSEMBLY LUBE INTO THE BORE OF THE
MAIN BODY.
. INSTALL SLEEVE AND SEALS
. CONSULT SEVICE MANUAL FOR SLEEVE INSTRUCTIONS.
. REASEMBLE VALVE HEAD
. FILL WITH OIL, CHECK SERVICE MANUAL FOR TYPE AND

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	Salesperson 235

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

AMOUNT.
. MOUNT THE GAS HEAD, SEALS AND HARDWARE
. CHARGE HAMMER
. CHECK FOR LEAKS
. FILL WITH HYD OIL, INSTALL HAMMER BACK INTO BRACKET.
.*****FOLLOW GUIDANCE IN SERVICE MANUAL FOR REBUILT HAMMERS**
. CHECK TORQUE SPECS FOR TIE ROD BOLTS, TIGHTEN IN CROSS
PATTERN.
. CHECK PRESSURES, PRELOAD TOOL BEFORE USING, PURGE AIR FROM HYD SYSTEM.
. OPPERATE HAMMER AND INSPECT FOR LEAKS OR LOOSE CONNECTIONS.

Quantity					
			======		
			x1		
			======		
			45.50		
FI		FREIGHT IN	3	147.51	442.54
GH15-2048		WEAR PLATE UPPE	1 N	160.19	160.19
GH15-2104		BUMP PAD (BOND)	1 M	447.26	447.26
GH15-4000		RETAINING PIN R	1	60.27	60.27
GH15-8064EN		SEAL KIT GH15 (	1 S	1858.84	1858.84
G025-5000		HAMMER MOUNTED	1 N	2785.12	2785.12
H351-4620		LOCK NUT	1 M	25.85	25.85
H351-4720		WASHER	1 M	3.93	3.93
NPK PAINT		SPRAY PAINT	5	18.24	91.20
Y50010901		RUBBER PLUG	1 N	5.45	5.45
11024551		RETAINING PLUG	4 O	5.08	20.32
	RETAINING PLUG - 8XA				

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KIRBY-SMITH MACHINERY, INC.

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DALLAS		
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	Salesperson 235

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS	
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1	
	GH15		MRN51323			
11040805			PLUNGER - (SING	1 A 174.47		174.47
11063344			TOOL BUSHING LO	1 O 1406.34		1406.34
11065117			TOOL - FX CHISE	1 M 3120.90		3120.90
11066370			BUSHING LOCK PI	1 S 149.84		149.84
				PARTS		10752.52
11000000				REPAIR SUB TOTAL==>		10752.52

****** WORK ORDER TOTALS ******

PARTS	10752.52
LABOR DISC TAX	8400.00
SUB TOTAL==>	19152.52
TEXAS 6.25%	1197.06
TX-DA-DALLAS 2%	383.05
ON ACCOUNT	20732.63

KIRBY-SMITH MACHINERY, INC.

8505 S Central Expwy
Dallas, TX 75241

www.kirby-smith.com

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235

9/4/24

SERVICE PRELIMINARY

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER		X 121733	10/26/18	9999 S1
	GH15		MRN51323		

SEGMENT# 1 5 PA09 MULTIPLE 08/07/24 08/07/24 08/14/24

MULTIPLE HRS	48.00	48.00

1. TEAR DOWN HAMMER FOR INSPECTION (990-001-04) 6.00
   . COMPLETE MODERN INSPECTION, TAKE PICTURES.
   . REMOVE THE TOOL FROM THE HAMMER.
   . REMOVE NOTROGEN CHARGE FROM HAMMER BEFORE DISASSEMBLY.
   . USE NPK CHARGE ADAPTER, INSTALL AND RELEASE PRSSURE.
   . PLACE HAMMER ON WOODEN BLOCKS, REMOVE BRACKET BOLTS, SUPPORT BLOCK, WEAR PADS AND HAMMER BRACKET ASSY.
   . SECURE KEY PLATES WITH BOLT AND LIFT HAMMER OUT OF BRACKET.
   . USE A SLING AND OVERHEAD TO REMOVE TOOL HOLDER.
   . REMOVE BOLT AND KEY PLATE.
   . REMOVE BRACKET BOLTS, BLOCKS, WEAR PAD, SPACER PLATE, STOPPER AND TOP PLATE.
   . DISASSEMBLE MAIN BODY, REMOVE GAS HEAD NUTS IN CORRECT ORDER.
   . USE A CROSS PATTERN
   . REMOVE PISTON SLEEVES, HYD OIL WILL COMEOUT.
   .***USE CORRECT TOOL, DO NOT PRY OUT***
   . ***FOLLOW CORRECT PROCEDURES FOR TEARDOWN OF SLEEVES***
   . REMOVE MAIN SPOOL VALVE AND PLUGS.
   . USE NYLON BAR FOR REMOVAL OF PISTON, SLEEVES, BUSHINGS.

CONTINUED ON PAGE 02

Thank You!

KIRBY-SMITH MACHINERY, INC.
8505 S Central Expwy
Dallas, TX 75241
www.kirby-smith.com

Ship To: CUSTOMER PICK UP

Branch		
DALLAS		
Date	Time	Page
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SERVICE PRELIMINARY

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

2. INSPECT AND MEASURE HAMMER COMPONENTS 2.00
(990-001-05)
. INSPECT HAMMER FOR INTERNAL DAMAGES, INCLUDING SEALING
SURFACES.
.
. CHECK FOR ANY DAMAGES TO OUTER HAMMER.
.
. MEASURE COMPONENTS PER NPK, RECORD MEASUREMENTS AND SUBMIT TO NPK.

---

3. REPLACE TOOL IN HAMMER (990-001-07) 1.50
. IF HAMMER IS ON A MACHINE, PARK MACHINE ON LEVEL GROUND.
. DISCONNECT BATTERIES AND LOCKOUT/TAG OUT MACHINE.
. REMOVE TOOL RETAINING SEAL AND PIN.
. INSPECT RETAINING SEAL AND PIN, REPLACE IF NEDED.
. USE CORRECT RIGGING TO REMOVE TOOL.
. REMOVE TOOL AND INSTALL NEW TOOL.
. INSTALL THE PIN AND SEAL.
. IF HAMMER IS MOUNTED ON MACHINE, STAND HAMMER UP AND APPLY DOWN PRESURE TO THE TOOL.
.
*****IF YOU DO NOT GREASE PROPERLY, YOU WILL CAUSE DAMAGE
TO THE HAMMERS INTERNAL PARTS*****
.
. ****TWO WAYS TO GREASE****
.
******IF YOU DO NOT GREASE PROPERLY,YOU WILL CAUSE

CONTINUED ON PAGE 03

Thank You!

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Dallas TX 75241

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SERVICE PRELIMINARY

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

DAMAGE
TO HAMMERS INTERNAL PARTS.******
.
. IF NO AUTO LUBE, GREASE THROUGH THE GREASE ZERT WITH GREASE GUN UNTIL GREASE COMES OUT FROM HAMMER BETWEEN TOOL
AND TOOL BUSHING.
.
. IF MACHINE HAS AN AUTO LUBE, APPLY PRESSURE TO TOOL. UNHOOK GREASE LINE AND INSTALL GREASE ZERT. GREASE DIRECTLY
INTO HAMMER OR GREASE LINE UNTIL GREASE COMES OUT BETWEEN
TOOL AND TOOL
BUSHING.
.

---

4. REBUILD AND RESEAL HAMMER (990-010-01) 36.00
. COMPLETE MODERN INSPECTION, TAKE PICTURES.
. PLACE HAMMER ON WOODEN BLOCKS, REMOVE BRACKET BOLTS, SUPPORT BLOCK, WEAR PADS AND HAMMER BRACKET ASSY.
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. REMOVE BRACKET BOLTS, BLOCKS, WEAR PAD, SPACER PLATE, STOPPER AND TOP PLATE.

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SERVICE PRELIMINARY

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NP17026	NPK GH15 HAMMER	X	121733	10/26/18	9999 S1
	GH15		MRN51323		

. DISASSEMBLE MAIN BODY, REMOVE GAS HEAD NUTS IN CORRECT
ORDER.
. USE A CROSS PATTERN
. REMOVE PISTON SLEEVES, HYD OIL WILL COMEOUT.
.***USE CORRECT TOOL, DO NOT PRY OUT***
. ***FOLLOW CORRECT PROCEDURES FOR TEARDOWN OF SLEEVES***
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SURFACES.
. CHECK CLEARANCE OF TOOL BUSHING
***FOR REASSEMBLY, CHECK THE PORT-CHART FOR TORQUE SPEC AND
O-RING P/N*****
.
. ****REASSEMBLY-REFER TO SERVICE MANUAL FOR SPECS****
.
. LIGHTLY OIL SLEEVE BEFORE INSTALLING
. APPLY HYD OIL TO RINGS. PISTON SEALS AND DIRT SEALS.
. APPLY HYD OIL OR NPK ASSEMBLY LUBE INTO THE BORE OF THE
MAIN BODY.
. INSTALL SLEEVE AND SEALS
. CONSULT SEVICE MANUAL FOR SLEEVE INSTRUCTIONS.
. REASEMBLE VALVE HEAD
. FILL WITH OIL, CHECK SERVICE MANUAL FOR TYPE AND

CONTINUED ON PAGE 05

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SERVICE PRELIMINARY

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NP17026	NPK GH15 HAMMER		X 121733	10/26/18	9999 S1
	GH15		MRN51323		

AMOUNT.
. MOUNT THE GAS HEAD, SEALS AND HARDWARE
. CHARGE HAMMER
. CHECK FOR LEAKS
. FILL WITH HYD OIL, INSTALL HAMMER BACK INTO BRACKET.
.*****FOLLOW GUIDANCE IN SERVICE MANUAL FOR REBUILT HAMMERS**
. CHECK TORQUE SPECS FOR TIE ROD BOLTS, TIGHTEN IN CROSS
PATTERN.
. CHECK PRESSURES, PRELOAD TOOL BEFORE USING, PURGE AIR FROM HYD SYSTEM.
. OPPERATE HAMMER AND INSPECT FOR LEAKS OR LOOSE CONNECTIONS.

Quantity					
				x1	
				45.50	
FI	FREIGHT IN	3		147.51	442.54
GH15-2048	WEAR PLATE UPPE	1	N	160.19	160.19
GH15-2104	BUMP PAD (BOND)	1	M	447.26	447.26
GH15-4000	RETAINING PIN R	1		60.27	60.27
GH15-8064EN	SEAL KIT GH15 (	1	S	1858.84	1858.84
G025-5000	HAMMER MOUNTED	1	N	2785.12	2785.12
H351-4620	LOCK NUT	1	M	25.85	25.85
H351-4720	WASHER	1	M	3.93	3.93
NPK PAINT	SPRAY PAINT	5		18.24	91.20
Y50010901	RUBBER PLUG	1	N	5.45	5.45
11024551	RETAINING PLUG	4	O	5.08	20.32
RETAINING PLUG - 8XA					

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Thank You!

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SERVICE PRELIMINARY

STK#/FLEET#		HRS PIN/EIN	WARRANTY DATE	HRS	
NP17026	NPK GH15 HAMMER GH15	X 121733 MRN51323	10/26/18	9999 S1	
11040805		PLUNGER - (SING	1 A 174.47		174.47
11063344		TOOL BUSHING LO	1 O 1406.34		1406.34
11065117		TOOL - FX CHISE	1 M 3120.90		3120.90
11066370		BUSHING LOCK PI	1 S 149.84		149.84
			PARTS		10752.52
11000000			REPAIR SUB TOTAL==>		10752.52

****** WORK ORDER TOTALS ******

PARTS	10752.52
LABOR DISC TAX	8400.00
SUB TOTAL==>	19152.52
TEXAS 6.25%	1197.06
TX-DA-DALLAS 2%	383.05
ON ACCOUNT	20732.63

Thank You!