



Title of Change:	Change of bonding wire bill of material, from gold wire to palladium coated copper wire, for XDFN devices having ONC25 pad technology at ON Semiconductor, Tarlac City, Philippines.	
Proposed First Ship date:	18 Dec 2020 or earlier if approved by customer	
Contact Information:	Contact your local ON Semiconductor Sales Office or BrianMarco.Tangalin@onsemi.com	
PCN Samples Contact:	Contact your local ON Semiconductor Sales Office or PCN.samples@onsemi.com Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local ON Semiconductor Sales Office or Andy.Esteva@onsemi.com	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. ON Semiconductor will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Effective date of PCC wire implementation will be managed thru traceability code of device	
Change Category:	Assembly Change	
Change Sub-Category(s):	Material Change	
Sites Affected:		
ON Semiconductor Sites	External Foundry/Subcon Sites	
ON Semiconductor Tarlac, Philippines	None	

Description and Purpose:

The change covers the conversion of bond wire material from 0.8 mil gold (Au) to 0.8 mil palladium coated copper (PCC) and 1.0 mil gold (Au) to 1.0 mil palladium coated copper (PCC) for products assembled by ON Semiconductor, Tarlac City, Philippines (ON Semiconductor -Tarlac).

Upon effectivity of this PCN, product manufactured by ON Semiconductor-Tarlac will convert to PCC wire.

The bill of material for product assembled in alternate qualified manufacturing locations will not change.

	Before Change Description	After Change Description
Bond Wire	0.8 mil Au	0.8 mil PCC
Bond Wire	1.0 mil Au	1.0 mil PCC

There is no product marking change as a result of this change.



Reliability Data Summary:

QV DEVICE NAME: NCP186AMX300TAGRMS : S63739/S64669PACKAGE : XDFN8

Test	Specification	Condition	Interval	Results
HTOL	JESD22-A108	Ta=125°C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/336
HTSL	JESD22-A103	Ta= 150°C	1008 hrs & 2016 hrs	0/336
TC	JESD22-A104	Ta= -65°C to +150°C	1000 cyc	0/336
HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs 192 hrs	0/344
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/344
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/1,032
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/40
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/88
DPA	AEC Q101 -004	Following PC + TC	Results	0/8
DPA SEM	AEC Q101 -004	Following PC + HAST	Results	0/8
BPS	Min Cpk 1.33	per assembly spec	Results	0/120
BS	Min Cpk 1.33	per assembly spec	Results	0/120
ED	Characterization of all 48A parameters	Critical Parameters	Results	0/120
PMD	12MON49370E	<80% PMD	Results	Pass
UPD	12MON49370E	No under pad damage	Results	Pass

QV DEVICE NAME: NCP152MX300180TCGRMS : S60984/O64122PACKAGE : XDFN6

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/112
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/196
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/15
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/22
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/6

QV DEVICE NAME: NCP134AMX105TCGRMS : S60987/O63776PACKAGE : XDFN4

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/336
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/588
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/45
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/66
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/18



QV DEVICE NAME: **NCP160AMX280TBG**

RMS :**S61853/O65486**

PACKAGE :**XDFN4**

Test	Specification	Condition	Interval	Results
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/112
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/196
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/15
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/22
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/6

Electrical Characteristics Summary:

Electrical characteristics are not impacted.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
NCP134AMX080TCG	NCP134AMX105TCG
NCP134AMX085TCG	NCP134AMX105TCG
NCP134AMX090TCG	NCP134AMX105TCG
NCP134AMX100TCG	NCP134AMX105TCG
NCP134AMX105TCG	NCP134AMX105TCG
NCP134AMX110TCG	NCP134AMX105TCG
NCP134AMX120TCG	NCP134AMX105TCG
NCP134AMX150TCG	NCP134AMX105TCG
NCP134AMX180TCG	NCP134AMX105TCG
NCP145AMX100TCG	NCP160AMX280TBG
NCP145AMX105TCG	NCP160AMX280TBG
NCP145AMX120TCG	NCP160AMX280TBG
NCP145CMX120TCG	NCP160AMX280TBG
NCP152MX150280TCG	NCP152MX300180TCG
NCP152MX180150TCG	NCP152MX300180TCG
NCP152MX180280TCG	NCP152MX300180TCG



NCP152MX300180TCG	NCP152MX300180TCG
NCP152MX300280TCG	NCP152MX300180TCG
NCP152MX330180TCG	NCP152MX300180TCG
NCP152MX330280TCG	NCP152MX300180TCG
NCP160AMX180TBG	NCP160AMX280TBG
NCP160AMX1825TBG	NCP160AMX280TBG
NCP160AMX250TBG	NCP160AMX280TBG
NCP160AMX275TBG	NCP160AMX280TBG
NCP160AMX280TBG	NCP160AMX280TBG
NCP160AMX285TBG	NCP160AMX280TBG
NCP160AMX290TBG	NCP160AMX280TBG
NCP160AMX300TBG	NCP160AMX280TBG
NCP160AMX310TBG	NCP160AMX280TBG
NCP160AMX320TBG	NCP160AMX280TBG
NCP160AMX330TBG	NCP160AMX280TBG
NCP160AMX350TBG	NCP160AMX280TBG
NCP160AMX450TBG	NCP160AMX280TBG
NCP160AMX500TBG	NCP160AMX280TBG
NCP160BMX180TBG	NCP160AMX280TBG
NCP160BMX250TBG	NCP160AMX280TBG
NCP160BMX285TBG	NCP160AMX280TBG
NCP160BMX300TBG	NCP160AMX280TBG
NCP160BMX330TBG	NCP160AMX280TBG
NCP160BMX350TBG	NCP160AMX280TBG
NCP160BMX500TBG	NCP160AMX280TBG
NCP160BMX514TBG	NCP160AMX280TBG
NCP161AMX180TBG	NCP160AMX280TBG
NCP161AMX185TBG	NCP160AMX280TBG
NCP161AMX250TBG	NCP160AMX280TBG
NCP161AMX280TBG	NCP160AMX280TBG
NCP161AMX285TBG	NCP160AMX280TBG
NCP161AMX300TBG	NCP160AMX280TBG
NCP161AMX320TBG	NCP160AMX280TBG
NCP161AMX330TBG	NCP160AMX280TBG



NCP161AMX350TBG	NCP160AMX280TBG
NCP161AMX450TBG	NCP160AMX280TBG
NCP161AMX500TBG	NCP160AMX280TBG
NCP161BMX180TBG	NCP160AMX280TBG
NCP161BMX250TBG	NCP160AMX280TBG
NCP161BMX280TBG	NCP160AMX280TBG
NCP161BMX285TBG	NCP160AMX280TBG
NCP161BMX300TBG	NCP160AMX280TBG
NCP161BMX330TBG	NCP160AMX280TBG
NCP161BMX350TBG	NCP160AMX280TBG
NCP161BMX450TBG	NCP160AMX280TBG
NCP161BMX500TBG	NCP160AMX280TBG
NCP161BMX514TBG	NCP160AMX280TBG
NCP163AMX120TBG	NCP160AMX280TBG
NCP163AMX150TBG	NCP160AMX280TBG
NCP163AMX180TBG	NCP160AMX280TBG
NCP163AMX190TBG	NCP160AMX280TBG
NCP163AMX250TBG	NCP160AMX280TBG
NCP163AMX260TBG	NCP160AMX280TBG
NCP163AMX270TBG	NCP160AMX280TBG
NCP163AMX275TBG	NCP160AMX280TBG
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NCP163AMX285TBG	NCP160AMX280TBG
NCP163AMX290TBG	NCP160AMX280TBG
NCP163AMX300TBG	NCP160AMX280TBG
NCP163AMX330TBG	NCP160AMX280TBG
NCP163AMX500TBG	NCP160AMX280TBG
NCP163BMX180TBG	NCP160AMX280TBG
NCP163BMX1825TBG	NCP160AMX280TBG
NCP163BMX275TBG	NCP160AMX280TBG
NCP170AMX120TCG	NCP160AMX280TBG
NCP170AMX135TCG	NCP160AMX280TBG
NCP170AMX150TCG	NCP160AMX280TBG
NCP170AMX170TCG	NCP160AMX280TBG



NCP170AMX180TBG	NCP160AMX280TBG
NCP170AMX180TCG	NCP160AMX280TBG
NCP170AMX190TCG	NCP160AMX280TBG
NCP170AMX250TCG	NCP160AMX280TBG
NCP170AMX280TBG	NCP160AMX280TBG
NCP170AMX280TCG	NCP160AMX280TBG
NCP170AMX285TCG	NCP160AMX280TBG
NCP170AMX300TBG	NCP160AMX280TBG
NCP170AMX300TCG	NCP160AMX280TBG
NCP170AMX310TCG	NCP160AMX280TBG
NCP170AMX320TCG	NCP160AMX280TBG
NCP170AMX330TBG	NCP160AMX280TBG
NCP170AMX330TCG	NCP160AMX280TBG
NCP170AMX360TCG	NCP160AMX280TBG
NCP170BMX120TCG	NCP160AMX280TBG
NCP170BMX135TCG	NCP160AMX280TBG
NCP170BMX150TCG	NCP160AMX280TBG
NCP170BMX170TCG	NCP160AMX280TBG
NCP170BMX180TCG	NCP160AMX280TBG
NCP170BMX190TCG	NCP160AMX280TBG
NCP170BMX250TCG	NCP160AMX280TBG
NCP170BMX280TCG	NCP160AMX280TBG
NCP170BMX285TCG	NCP160AMX280TBG
NCP170BMX300TCG	NCP160AMX280TBG
NCP170BMX310TCG	NCP160AMX280TBG
NCP170BMX320TCG	NCP160AMX280TBG
NCP170BMX330TCG	NCP160AMX280TBG
NCP170BMX360TCG	NCP160AMX280TBG
NCP186AMX120TAG	NCP186AMX300TAG
NCP186AMX150TAG	NCP186AMX300TAG
NCP186AMX175TAG	NCP186AMX300TAG
NCP186AMX180TAG	NCP186AMX300TAG
NCP186AMX185TAG	NCP186AMX300TAG
NCP186AMX250TAG	NCP186AMX300TAG



NCP186AMX280TAG	NCP186AMX300TAG
NCP186AMX295TAG	NCP186AMX300TAG
NCP186AMX300TAG	NCP186AMX300TAG
NCP186AMX330TAG	NCP186AMX300TAG
NCP186AMX350TAG	NCP186AMX300TAG
NCP186AMX390TAG	NCP186AMX300TAG
NCP186BMX120TAG	NCP186AMX300TAG
NCP186BMX150TAG	NCP186AMX300TAG
NCP186BMX180TAG	NCP186AMX300TAG
NCP186BMX185TAG	NCP186AMX300TAG
NCP186BMX250TAG	NCP186AMX300TAG
NCP186BMX280TAG	NCP186AMX300TAG
NCP186BMX300TAG	NCP186AMX300TAG
NCP186BMX330TAG	NCP186AMX300TAG
NCP186BMX350TAG	NCP186AMX300TAG
NCP186BMX390TAG	NCP186AMX300TAG
NCP717AMX150TCG	NCP160AMX280TBG
NCP717AMX190TCG	NCP160AMX280TBG
NCP717AMX280TCG	NCP160AMX280TBG
NCP717AMX285TCG	NCP160AMX280TBG
NCP717AMX330TCG	NCP160AMX280TBG
NCP717BMX150TCG	NCP160AMX280TBG
NCP717BMX180TCG	NCP160AMX280TBG
NCP717BMX190TCG	NCP160AMX280TBG
NCP717BMX250TCG	NCP160AMX280TBG
NCP717BMX280TCG	NCP160AMX280TBG
NCP717BMX300TCG	NCP160AMX280TBG
NCP717BMX310TCG	NCP160AMX280TBG
NCP717CMX150TCG	NCP160AMX280TBG
NCP717CMX180TCG	NCP160AMX280TBG
NCP717CMX190TCG	NCP160AMX280TBG
NCP717CMX285TBG	NCP160AMX280TBG
NCP717CMX300TCG	NCP160AMX280TBG
NCP717CMX310TCG	NCP160AMX280TBG



Final Product/Process Change Notification

Document #:FPCN23269X

Issue Date: 20 Aug 2020

NCP717CMX330TBG	NCP160AMX280TBG
NCP717CMX330TCG	NCP160AMX280TBG
SCP134AMX105TCG	NCP134AMX105TCG
SCP134AMX110TCG	NCP134AMX105TCG

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



最終製品 / プロセス変更通知

文書番号# : FPCN23269X

発行日: 20 Aug 2020

変更件名:	オン・セミコンダクター (タルラック市、フィリピン) で製造する ONC25 パッドテクノロジーを有する XDFN 製品用のボンディング・ワイヤー材を、金ワイヤーからパラジウムコート銅ワイヤーに変更	
初回出荷予定日:	18 Dec 2020 またはお客様からの承認が得られた場合はそれ以前	
連絡先情報:	現地のオン・セミコンダクター営業所または Jaroslav.Supina@onsemi.com にお問い合わせください。	
サンプル:	現地のオン・セミコンダクター営業所または < PCN.Samples@onsemi.com > にお問い合わせください。 サンプルは、この変更の初回通知、初回 PCN の日付から 30 日以内に要求してください。 サンプル納入時は、依頼日、数量、特別梱包材/ラベル条件によって異なります。	
追加の信頼性データ:	お客さまの地域のオン・セミコンダクター営業所または Andy.Esteva@onsemi.com にお問い合わせください。	
通知種別:	これは、お客様宛の最終製品 / プロセス変更通知 (FPCN) です。FPCN は、変更実施の 90 日前に発行されます。 オン・セミコンダクターは、この通知の送付から 30 日以内に書面による問い合わせがない限り、この変更が承諾されたものとみなします。お問い合わせは、 PCN.Support@onsemi.com 宛てにお願いします。	
変更部品の識別:	PCC ワイヤー実施の発効日は、製品のトレーサビリティコードにて管理されます	
変更カテゴリ: アセンブリの変更		
変更サブカテゴリ: 材料の変更材料の変更		
影響を受ける拠点:		
オン・セミコンダクター拠点:	外部製造工場 / 下請業者拠点:	
ON Semiconductor Tarlac, Philippines	無し	
説明および目的:		
この変更は、オン・セミコンダクター タルラック (タルラック市、フィリピン) で組み立てられる製品に使用するボンディング・ワイヤー材料の 0.8 mil 金 (Au) から 0.8 mil パラジウムコート銅 (PCC)、および 1.0 mil 金 (Au) から 1.0 mil パラジウムコート銅 (PCC) への変更を対象とします。		
本 PCN の有効日から、オン・セミコンダクター タルラックで製造する製品は PCC ワイヤーに変更されます。		
認定されている代替製造拠点における製品の部品表は変更されません。		
	変更前の表記	変更後の表記
ワイヤ	0.8 mil Au	0.8 mil PCC
ワイヤ	1.0 mil Au	1.0 mil PCC
今回の変更に伴う製品マーキングの変更はありません。		



信頼性データの要約:

デバイス名: NCP186AMX300TAGRMS : S63739/S64669パッケージ: XDFN8

テスト	仕様	条件	間隔	結果
HTOL	JESD22-A108	Ta=125°C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hrs	0/336
HTSL	JESD22-A103	Ta= 150°C	1008 hrs & 2016 hrs	0/336
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HAST	JESD22-A110	130°C, 85% RH, 18.8psig, bias	96 hrs 192 hrs	0/344
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/344
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/1,032
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/40
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/88
DPA	AEC Q101 -004	Following PC + TC	Results	0/8
DPA SEM	AEC Q101 -004	Following PC + HAST	Results	0/8
BPS	Min Cpk 1.33	per assembly spec	Results	0/120
BS	Min Cpk 1.33	per assembly spec	Results	0/120
ED	Characterization of all 48A parameters	Critical Parameters	Results	0/120
PMD	12MON49370E	<80% PMD	Results	Pass
UPD	12MON49370E	No under pad damage	Results	Pass

デバイス名: NCP152MX300180TCGRMS : S60984/O64122パッケージ: XDFN6

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/112
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/196
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/15
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/22
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/6

デバイス名: NCP134AMX105TCGRMS : S60987/O63776パッケージ: XDFN4

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta= -65°C to +150°C	500 cyc	0/336
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/252
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/588
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/45
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/66
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/18



デバイス名: NCP160AMX280TBG

RMS : S61853/O65486

パッケージ: XDFN4

テスト	仕様	条件	間隔	結果
TC	JESD22-A104	Ta = -65°C to +150°C	500 cyc	0/112
uHAST	JESD22-A118	130°C, 85% RH, 18.8psig, unbiased	96 hrs	0/84
PC	J-STD-020 JESD-A113	MSL 1 @ 260 °C	Results	0/196
RSH	JESD22- B106	Ta = 265C, 10 sec	Electrical	0/15
SAT	as outlined in MSB17722C	Compare for Delamination before and after PC	Results	0/22
CDPA WP	AEC Q101 -004	Following PC + TC	Results	0/6

電気的特性の要約:

電気的特性への影響はありません。

影響を受ける部品の一覧:

注: 部品一覧には標準部品番号 (既製品) のみが記載されています。本 PCN の影響を受けるカスタム部品番号は、PCN メールで提供される顧客個別の付録、または PCN カスタマイズポータルに記載されています。

部品番号	認定試験用ビークル
NCP152MX180180TCG	NCP152MX300180TCG
NCP152MX280180TCG	NCP152MX300180TCG
NCP152MX300300TCG	NCP152MX300180TCG
NCP152MX330300TCG	NCP152MX300180TCG
NCP152MX330330TCG	NCP152MX300180TCG
NCP160BMX1825TBG	NCP160AMX280TBG
NCP160BMX275TBG	NCP160AMX280TBG
NCP160BMX280TBG	NCP160AMX280TBG
NCP161AMX514TBG	NCP160AMX280TBG
NCP163AMX1825TBG	NCP160AMX280TBG
NCP163AMX400TBG	NCP160AMX280TBG
NCP186AMX105TAG	NCP186AMX300TAG
NCP717AMX180TCG	NCP160AMX280TBG
NCP717AMX185TCG	NCP160AMX280TBG
NCP717AMX250TCG	NCP160AMX280TBG
NCP717AMX300TCG	NCP160AMX280TBG
NCP717AMX310TCG	NCP160AMX280TBG
NCP717BMX185TCG	NCP160AMX280TBG
NCP717BMX285TCG	NCP160AMX280TBG



NCP717CMX185TCG	NCP160AMX280TBG
NCP717CMX220TCG	NCP160AMX280TBG
NCP717CMX250TCG	NCP160AMX280TBG
NCP717CMX285TBG-IRH1	NCP160AMX280TBG
SCP160AMX280TBG	NCP160AMX280TBG
NCP134AMX080TCG	NCP134AMX105TCG
NCP134AMX085TCG	NCP134AMX105TCG
NCP134AMX090TCG	NCP134AMX105TCG
NCP134AMX100TCG	NCP134AMX105TCG
NCP134AMX105TCG	NCP134AMX105TCG
NCP134AMX110TCG	NCP134AMX105TCG
NCP134AMX120TCG	NCP134AMX105TCG
NCP134AMX135TCG	NCP134AMX105TCG
NCP134AMX150TCG	NCP134AMX105TCG
NCP134AMX180TCG	NCP134AMX105TCG
NCP145AMX100TCG	NCP160AMX280TBG
NCP145AMX105TCG	NCP160AMX280TBG
NCP145AMX120TCG	NCP160AMX280TBG
NCP145CMX120TCG	NCP160AMX280TBG
NCP152MX150280TCG	NCP152MX300180TCG
NCP152MX180150TCG	NCP152MX300180TCG
NCP152MX180280TCG	NCP152MX300180TCG
NCP152MX300180TCG	NCP152MX300180TCG
NCP152MX300280TCG	NCP152MX300180TCG
NCP152MX330180TCG	NCP152MX300180TCG
NCP152MX330280TCG	NCP152MX300180TCG
NCP160AMX180TBG	NCP160AMX280TBG
NCP160AMX1825TBG	NCP160AMX280TBG
NCP160AMX250TBG	NCP160AMX280TBG
NCP160AMX270TBG	NCP160AMX280TBG
NCP160AMX275TBG	NCP160AMX280TBG
NCP160AMX280TBG	NCP160AMX280TBG
NCP160AMX285TBG	NCP160AMX280TBG
NCP160AMX290TBG	NCP160AMX280TBG
NCP160AMX300TBG	NCP160AMX280TBG
NCP160AMX310TBG	NCP160AMX280TBG



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NCP160AMX320TBG	NCP160AMX280TBG
NCP160AMX330TBG	NCP160AMX280TBG
NCP160AMX350TBG	NCP160AMX280TBG
NCP160AMX450TBG	NCP160AMX280TBG
NCP160AMX500TBG	NCP160AMX280TBG
NCP160AMX514TBG	NCP160AMX280TBG
NCP160BMX180TBG	NCP160AMX280TBG
NCP160BMX250TBG	NCP160AMX280TBG
NCP160BMX285TBG	NCP160AMX280TBG
NCP160BMX300TBG	NCP160AMX280TBG
NCP160BMX330TBG	NCP160AMX280TBG
NCP160BMX350TBG	NCP160AMX280TBG
NCP160BMX500TBG	NCP160AMX280TBG
NCP160BMX514TBG	NCP160AMX280TBG
NCP161AMX180TBG	NCP160AMX280TBG
NCP161AMX185TBG	NCP160AMX280TBG
NCP161AMX250TBG	NCP160AMX280TBG
NCP161AMX280TBG	NCP160AMX280TBG
NCP161AMX285TBG	NCP160AMX280TBG
NCP161AMX300TBG	NCP160AMX280TBG
NCP161AMX320TBG	NCP160AMX280TBG
NCP161AMX330TBG	NCP160AMX280TBG
NCP161AMX350TBG	NCP160AMX280TBG
NCP161AMX450TBG	NCP160AMX280TBG
NCP161AMX500TBG	NCP160AMX280TBG
NCP161BMX180TBG	NCP160AMX280TBG
NCP161BMX250TBG	NCP160AMX280TBG
NCP161BMX280TBG	NCP160AMX280TBG
NCP161BMX285TBG	NCP160AMX280TBG
NCP161BMX300TBG	NCP160AMX280TBG
NCP161BMX330TBG	NCP160AMX280TBG
NCP161BMX350TBG	NCP160AMX280TBG
NCP161BMX450TBG	NCP160AMX280TBG
NCP161BMX500TBG	NCP160AMX280TBG
NCP161BMX514TBG	NCP160AMX280TBG
NCP163AMX120TBG	NCP160AMX280TBG



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NCP163AMX130TBG	NCP160AMX280TBG
NCP163AMX150TBG	NCP160AMX280TBG
NCP163AMX180TBG	NCP160AMX280TBG
NCP163AMX190TBG	NCP160AMX280TBG
NCP163AMX250TBG	NCP160AMX280TBG
NCP163AMX260TBG	NCP160AMX280TBG
NCP163AMX270TBG	NCP160AMX280TBG
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NCP163AMX280TBG	NCP160AMX280TBG
NCP163AMX285TBG	NCP160AMX280TBG
NCP163AMX290TBG	NCP160AMX280TBG
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NCP163AMX330TBG	NCP160AMX280TBG
NCP163AMX500TBG	NCP160AMX280TBG
NCP163AMX514TBG	NCP160AMX280TBG
NCP163BMX180TBG	NCP160AMX280TBG
NCP163BMX1825TBG	NCP160AMX280TBG
NCP163BMX275TBG	NCP160AMX280TBG
NCP163BMX280TBG	NCP160AMX280TBG
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NCP170AMX280TCG	NCP160AMX280TBG
NCP170AMX285TCG	NCP160AMX280TBG
NCP170AMX300TBG	NCP160AMX280TBG
NCP170AMX300TCG	NCP160AMX280TBG
NCP170AMX310TCG	NCP160AMX280TBG
NCP170AMX320TCG	NCP160AMX280TBG
NCP170AMX330TBG	NCP160AMX280TBG
NCP170AMX330TCG	NCP160AMX280TBG



NCP170AMX360TCG	NCP160AMX280TBG
NCP170BMX120TCG	NCP160AMX280TBG
NCP170BMX135TCG	NCP160AMX280TBG
NCP170BMX150TCG	NCP160AMX280TBG
NCP170BMX170TCG	NCP160AMX280TBG
NCP170BMX180TCG	NCP160AMX280TBG
NCP170BMX190TCG	NCP160AMX280TBG
NCP170BMX250TCG	NCP160AMX280TBG
NCP170BMX280TCG	NCP160AMX280TBG
NCP170BMX285TCG	NCP160AMX280TBG
NCP170BMX300TCG	NCP160AMX280TBG
NCP170BMX310TCG	NCP160AMX280TBG
NCP170BMX320TCG	NCP160AMX280TBG
NCP170BMX330TCG	NCP160AMX280TBG
NCP170BMX360TCG	NCP160AMX280TBG
NCP186AMX120TAG	NCP186AMX300TAG
NCP186AMX150TAG	NCP186AMX300TAG
NCP186AMX175TAG	NCP186AMX300TAG
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NCP186AMX185TAG	NCP186AMX300TAG
NCP186AMX250TAG	NCP186AMX300TAG
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NCP186AMX350TAG	NCP186AMX300TAG
NCP186AMX390TAG	NCP186AMX300TAG
NCP186BMX120TAG	NCP186AMX300TAG
NCP186BMX150TAG	NCP186AMX300TAG
NCP186BMX180TAG	NCP186AMX300TAG
NCP186BMX185TAG	NCP186AMX300TAG
NCP186BMX250TAG	NCP186AMX300TAG
NCP186BMX280TAG	NCP186AMX300TAG
NCP186BMX300TAG	NCP186AMX300TAG
NCP186BMX330TAG	NCP186AMX300TAG
NCP186BMX350TAG	NCP186AMX300TAG



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NCP186BMX390TAG	NCP186AMX300TAG
NCP717AMX150TCG	NCP160AMX280TBG
NCP717AMX190TCG	NCP160AMX280TBG
NCP717AMX280TCG	NCP160AMX280TBG
NCP717AMX285TCG	NCP160AMX280TBG
NCP717AMX330TCG	NCP160AMX280TBG
NCP717BMX150TCG	NCP160AMX280TBG
NCP717BMX180TCG	NCP160AMX280TBG
NCP717BMX190TCG	NCP160AMX280TBG
NCP717BMX250TCG	NCP160AMX280TBG
NCP717BMX280TCG	NCP160AMX280TBG
NCP717BMX300TCG	NCP160AMX280TBG
NCP717BMX310TCG	NCP160AMX280TBG
NCP717CMX150TCG	NCP160AMX280TBG
NCP717CMX180TCG	NCP160AMX280TBG
NCP717CMX190TCG	NCP160AMX280TBG
NCP717CMX280TCG	NCP160AMX280TBG
NCP717CMX285TBG	NCP160AMX280TBG
NCP717CMX285TCG	NCP160AMX280TBG
NCP717CMX300TCG	NCP160AMX280TBG
NCP717CMX310TCG	NCP160AMX280TBG
NCP717CMX330TBG	NCP160AMX280TBG
NCP717CMX330TCG	NCP160AMX280TBG
SCP134AMX105TCG	NCP134AMX105TCG
SCP134AMX110TCG	NCP134AMX105TCG
SCP134AMX120TCG	NCP134AMX105TCG



Appendix A: Changed Products

D

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP134AMX080TCG		NCP134AMX105TCG		
NCP134AMX100TCG		NCP134AMX105TCG		
NCP134AMX105TCG		NCP134AMX105TCG		
NCP134AMX110TCG		NCP134AMX105TCG		
NCP134AMX120TCG		NCP134AMX105TCG		
NCP134AMX180TCG		NCP134AMX105TCG		
NCP145AMX100TCG		NCP160AMX280TBG		
NCP145AMX105TCG		NCP160AMX280TBG		
NCP145AMX120TCG		NCP160AMX280TBG		
NCP145CMX120TCG		NCP160AMX280TBG		
NCP152MX330180TCG		NCP152MX300180TCG		
NCP160AMX180TBG		NCP160AMX280TBG		
NCP160AMX250TBG		NCP160AMX280TBG		
NCP160AMX280TBG		NCP160AMX280TBG		
NCP160AMX290TBG		NCP160AMX280TBG		
NCP160AMX300TBG		NCP160AMX280TBG		
NCP134AMX090TCG		NCP134AMX105TCG		
NCP170AMX300TCG		NCP160AMX280TBG		
NCP170BMX180TCG		NCP160AMX280TBG		
NCP170BMX300TCG		NCP160AMX280TBG		
NCP170BMX330TCG		NCP160AMX280TBG		
NCP186AMX120TAG		NCP186AMX300TAG		
NCP186AMX250TAG		NCP186AMX300TAG		
NCP186AMX300TAG		NCP186AMX300TAG		
NCP186AMX350TAG		NCP186AMX300TAG		
NCP717AMX280TCG		NCP160AMX280TBG		
NCP160AMX310TBG		NCP160AMX280TBG		
NCP160AMX320TBG		NCP160AMX280TBG		
NCP160AMX330TBG		NCP160AMX280TBG		
NCP160AMX350TBG		NCP160AMX280TBG		
NCP160AMX450TBG		NCP160AMX280TBG		
NCP160AMX500TBG		NCP160AMX280TBG		
NCP160BMX180TBG		NCP160AMX280TBG		
NCP160BMX330TBG		NCP160AMX280TBG		
NCP160BMX500TBG		NCP160AMX280TBG		
NCP161AMX180TBG		NCP160AMX280TBG		
NCP161AMX250TBG		NCP160AMX280TBG		
NCP161AMX280TBG		NCP160AMX280TBG		
NCP161AMX300TBG		NCP160AMX280TBG		
NCP161AMX330TBG		NCP160AMX280TBG		
NCP161AMX500TBG		NCP160AMX280TBG		
NCP161BMX180TBG		NCP160AMX280TBG		



Appendix A: Changed Products

D

Product	Customer Part Number	Qualification Vehicle	New Part Number	Replacement Supplier
NCP161BMX250TBG		NCP160AMX280TBG		
NCP161BMX280TBG		NCP160AMX280TBG		
NCP161BMX300TBG		NCP160AMX280TBG		
NCP161BMX330TBG		NCP160AMX280TBG		
NCP161BMX500TBG		NCP160AMX280TBG		
NCP163AMX180TBG		NCP160AMX280TBG		
NCP163AMX250TBG		NCP160AMX280TBG		
NCP163AMX285TBG		NCP160AMX280TBG		
NCP163AMX290TBG		NCP160AMX280TBG		
NCP163AMX300TBG		NCP160AMX280TBG		
NCP163AMX330TBG		NCP160AMX280TBG		
NCP163AMX500TBG		NCP160AMX280TBG		
NCP170AMX120TCG		NCP160AMX280TBG		
NCP170AMX170TCG		NCP160AMX280TBG		
NCP170AMX180TCG		NCP160AMX280TBG		
NCP170AMX250TCG		NCP160AMX280TBG		
NCP170AMX280TCG		NCP160AMX280TBG		
NCP170AMX285TCG		NCP160AMX280TBG		
NCP170AMX330TCG		NCP160AMX280TBG		
NCP170BMX250TCG		NCP160AMX280TBG		
NCP170BMX280TCG		NCP160AMX280TBG		
NCP186AMX180TAG		NCP186AMX300TAG		
NCP186AMX330TAG		NCP186AMX300TAG		
NCP186BMX330TAG		NCP186AMX300TAG		