

SPICER®

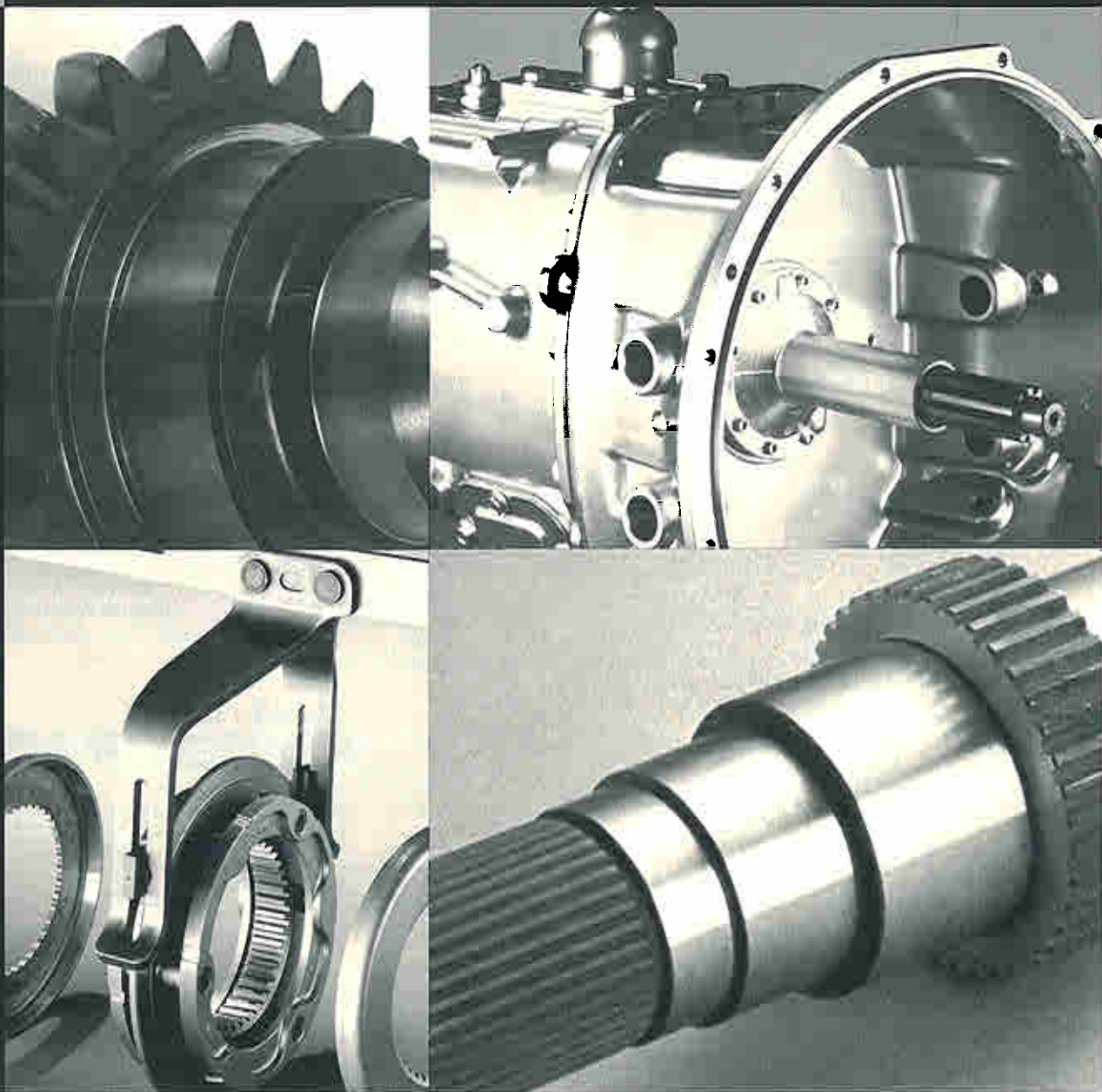
Weatherly Index 084

T240-2

January, 1991

Model and Part Numbering System
Supersedes T240-2 dated 4-85

TRANSMISSION MODEL & PART NUMBERING SYSTEM



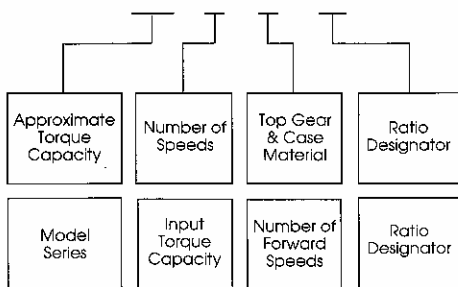
NEW MODEL NUMBERING SYSTEM

The Spicer Transmission Division's model and part numbering system provides the user with a great deal of useful information. The model numbering system indicates model series, input torque capacity, number of forward speeds and the ratio.

In January 1989, the Model Numbering System was changed. Below are examples of the Old and New Systems.

OLD SYSTEM

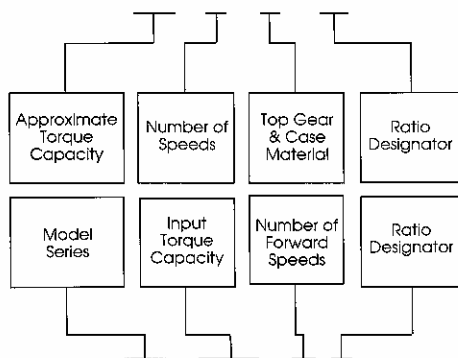
59 5 2 - A



ES 60 - 5 A
NEW SYSTEM

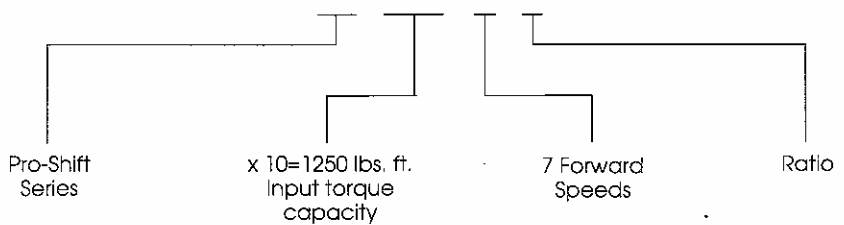
OLD SYSTEM

13 7 2 - A

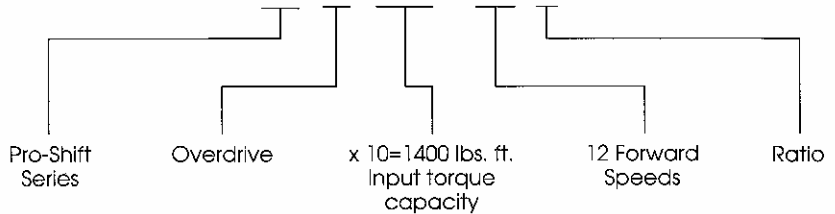


PS 125 - 7 A
NEW SYSTEM

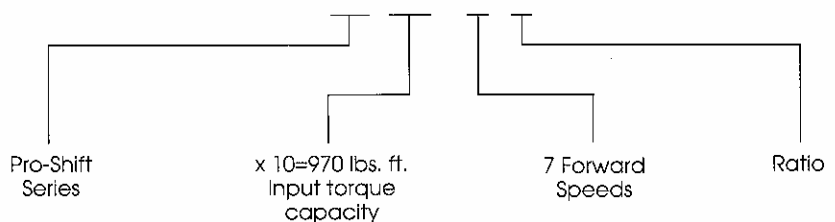
PS 125 - 7 B



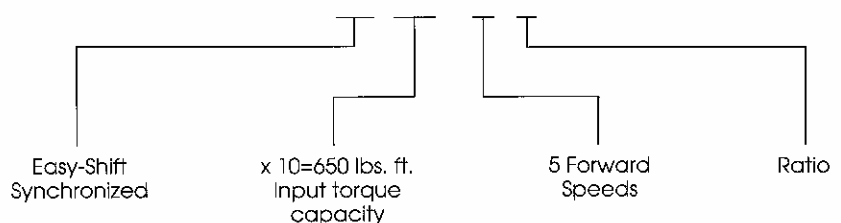
PS O 140 - 12 B



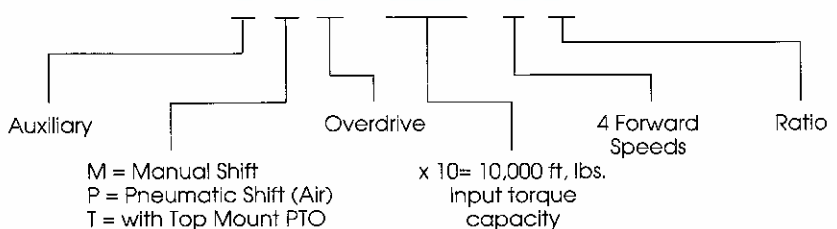
PS 97 - 7 B



ES 65 - 5 B



A M O 1000 - 4 C
A P O 1000 - 4 C
A T O 1000 - 4 C



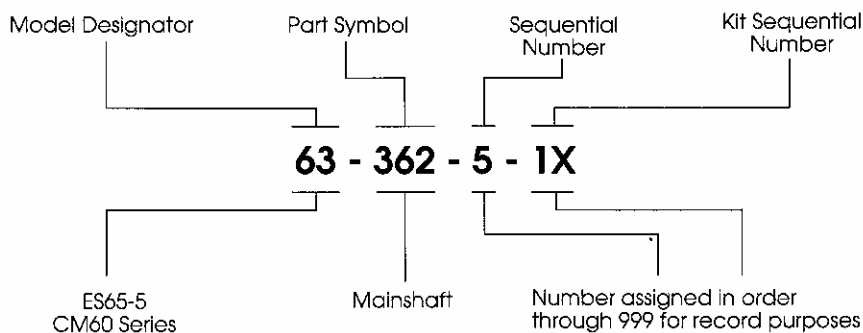
PART NUMBERING SYSTEM

The Spicer Transmission part numbering system provides information on part categories and specific parts.

Although the Model Numbering System has changed the Part Numbering System has remained the same.

There are three types of part numbers:

I. SYMBOLIZED PART NUMBERS



The Part Symbol is the main indicator as to what the part is and remains constant for any model Transmission

TYPES OF PARTS NUMBERS

I. Symbolized Part Numbers

Examples: 97-362-50
97-362-50-1X

Symbolized parts with -1X, -2X, etc. are kits consisting of the symbolized part plus additional parts for service.

II. Six-digit Part Numbers

Examples: 312268
330564-1
313400-18X

III. Alpha-numeric Part Numbers

Example: 128C-20
25Q-2470
286-SP

PART SYMBOLS

SYMBOL	PART NAME	SYMBOL	PART NAME
1	Gear, countershaft drive	215	Plate, adapter
5	Gear, reverse idler	223	Gasket, bearing cap
6	Finger, shift	228	Shim bearing cap
8	Gear, mainshaft	312	Gear, P.T.O. driver
12	Interlock	324	Gasket, P.T.O. cover
15	Case, transmission	352	Gasket, clutch housing to case
16	Housing, shifter		
17	Housing, tower control	354	Bracket, shift rod
18	Housing, remote control	360	Retainer, shift rod into shift housing
19	Cap, front or rear bearing		
22	Cap, countershaft bearing	362	Mainshaft
24	Bushing, housing or cover	381	Ring, snap
30	Countershaft	410	Trunnion, front
35	Gear, main drive or input shaft	411	Bracket, spring return
36	Gear, main drive head	420	Tube, oil transfer
37	Spacer	438	Pin, poppet, plunger or reverse switch
39	Plug, magnetic drain	452	Gear, speedometer drive
47	Washer, thrust	453	Gear, speedometer driven
59	Plug, rod of shaft hole	454	Sleeve, speedometer driven gear
60	Shaft, reverse idler		
65	Rod, remote, shift finger	458	Sleeve, bearing
66	Fork, shift	463	Seal, oil
67	Rod, shift	465	Collar, clutch gear
71	Poppet	466	Gear, clutch
72	Spring, shift poppet	468	Trough, oil
80	Ball, shift rod poppet		
96	Cover, hand hole or aperture	475	Baffle, oil
106	Flange, companion	480	Bushing, speedometer
118	Gasket, aperture cover	481	Cover, speedometer
136	Piston, air cylinder	482	Gasket, speedometer
155	Gasket, shifter housing, remote or tower control	483	Bearing, needle roller
196	Gear, countershaft	486	Boot, shift control
200	Plate, interlock retainer		
203	Sleeve, shift rod	487	Clip, shift fork
204	Sleeve, drive gear oil seal installation	501	Shoe, shift fork
205	Washer, flat	509	Insert, case
210	Key, shaft (except std. woodruff)	510	Housing, splitter
		518	Yoke, clutch release
		519	Shaft, clutch release
		539	Housing, clutch
		545	Cap, dust speedo
		555	Tank, oil
			Plate, synchronizer cam

MODEL DESIGNATORS

Main or Compound Transmissions

Prefix	Series
40-	CM40, ES42-5
46-	5000
47-	CM50
49-	CM49, ES52-5
53-	CM55
59-	CM59, ES60-5
62-	6000
63-	CM60, ES65-5
82-	8500,8700,8800, Series Main
85-	8500, 8700, Series Compounds
97-	SST Series, PS Series
101-	ES52-7/ ESO65-7
201-	PS125-9A/ PSO140-9A

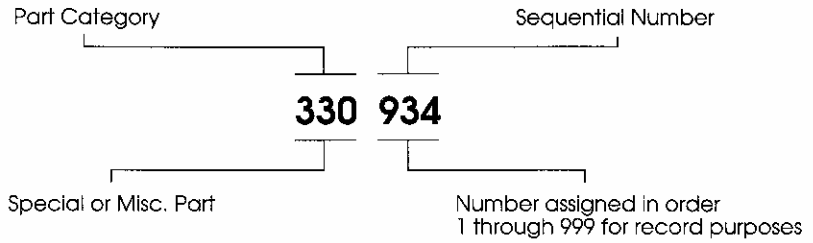
Auxiliary Transmissions

Prefix	Series
70-	7041, R8341, AMO610-4L
98-	1241, P1241, AMO1000-4C AMO1000-4D, APO1000-4C APO1000-4D, ATO 1000-4C, ATO1000-4D

The Model Designator enables instant recognition of what model an individual part is used in.

For example a 40-8-5 is a Main-shaft Gear used in the CM40 and ES42-5 series transmission

II-SIX-DIGIT NUMBERS



PART CATEGORIES

- 300000, 301000 _____ Assemblies, Production / Service
- R300000, R301000, R304000 _____ Assemblies, Remanufactured
- 310000, 311000, 312000, 313000 _____ Sub-Assemblies / Kits
- 310000-313000 with suffix X _____ Sub-Assemblies / Kits Spicer Assembled
- 330000 _____ Special or Miscellaneous
- 500000, 501000, 545000 _____ Hardware
- 550000, 551000 _____ Bearings

An Assembly Part number is constructed as a base bill of material such as 301438 which designates Model and Ratio followed by a dash such as -33 which designates a specific application and customer. For example a 30148-33 is an ES42-5A for Navistar

Permanently Assigned Six-digit numbers

- 312475 _____ Gasket Kit
- 313024 _____ Snap Ring Kit
- 313400 _____ Major Overhaul Kit
- 313401 _____ Thrust Washer Kit
- 313429 _____ Shifter Repair Kit
- 313432 _____ Minor Overhaul Kit

All Kits contain genuine Spicer Parts and are designed to enable correct up - to date overhauling of Spicer Transmissions.

III- ALPHA NUMERIC PART NUMBERS

Part Category Indicator

105 C - 137

Clutch Part

Alpha Character	Part Category	Example
B	Brake Parts	5B-3
C	Clutch Parts	105C-137
D	Hardware, screws	266-D
J	Hardware, nuts	68-J
NP	Nameplates	NP-96
P	P.T.O. Parts	3P-26
Q	Shifter Parts and Levers	1Q-130, 25Q-(Levers)
SP	Hardware, Pins (roll & spring)	96-SP
V	Hardware, studs	83-V
W	Washers	14-W
LW	Lock wire	LW-3-9

OLD MODEL NUMBERING SYSTEM

MAIN TRANSMISSIONS

Models starting with number 1

The first two digits x 100 = Approx. torque capacity in lbs. ft.

If 4 numeric digits,

3rd digit indicates # of speeds.
4th digit indicates top gear and case material.

If 5 numeric digits,

3rd and 4th digits indicate # of speeds
5th digit following dash (-) indicates top gear and case material.

Models starting with a number other than 1

The first two digits x 10 = approx. torque capacity in lbs. ft.

3rd digit indicates # of speeds.

4th digit indicates top gear and case material.

Top Gear and Case Material

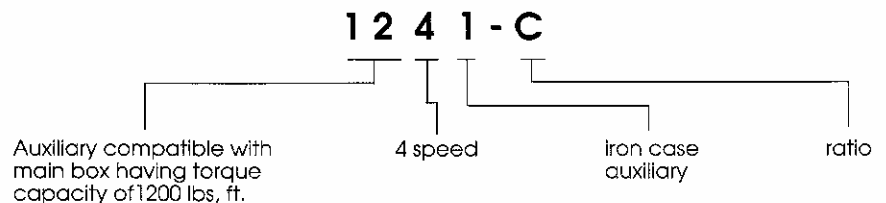
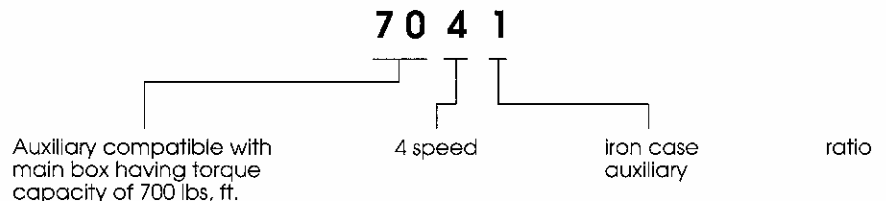
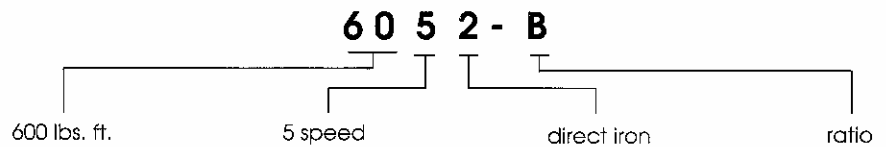
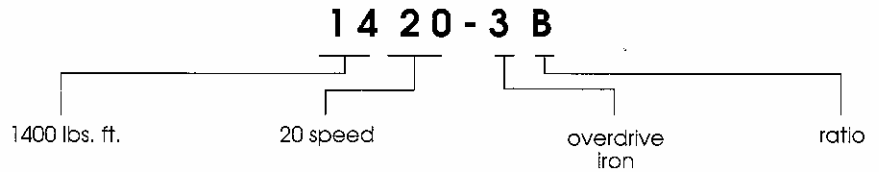
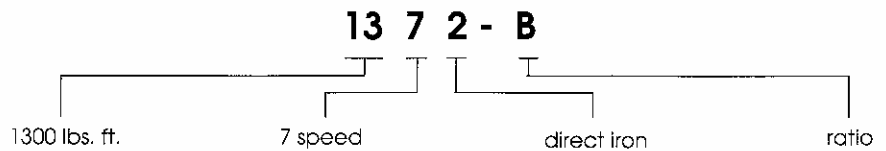
- 1 = Iron Case Direct/Overdrive (auxiliary only)
- 2 = Direct- Iron
- 3 = Overdrive- Iron
- 4 = Direct- Aluminum
- 5 = Overdrive- Aluminum

AUXILIARY TRANSMISSIONS

The model numbering system for Spicer Auxiliary Transmissions assists the user in matching auxiliaries to mains. It is similar to the main transmission numbering system with one difference. The first two digits indicate the torque capacity of the main transmission that the auxiliary is compatible with, rather than the capacity of the auxiliary itself.

Some auxiliaries do not have a Ratio designator.

The same rules apply for x 100 if the starting number is 1, x 10 if the starting number is other than 1. Auxiliary transmission numbers may be preceded or followed by the following letters: "P" air shifted, "R" revised model, "T" supplied with a Top Mount P.T.O.





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