

# **PTRL3040**

Bia Yf]WU``F YgYfjc]f'G]ai`Uh]cb

HYfa 'H\fYY''##'&\$&\$

# 7ci fgY<sup>-</sup>Cj Yfj ]Yk

### GHJZ:7cbHJWh:8YHJ]`g

#### 7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUhjcb	D∖cbY
:ifeUb^@Y! <iggu]b< td=""><td>∄ feUb"\i ggU]b4 i bgk "YXi "Ui</td><td>cb`]bY'fHYUa gŁ</td><td>H9H6<sup>*</sup>&amp;%-</td><td></td></iggu]b<>	∄ feUb"\i ggU]b4 i bgk "YXi "Ui	cb`]bY'fHYUa gŁ	H9H6 <sup>*</sup> &%-	

#### 8Ya cbghfUhcfg

BUa Y	9a U]`	5j U]`UV]`] <b>m</b>	@cWUhjcb	D\cbY
<ub[ 'm]b<="" td=""><td></td><td>cb`]bY</td><td>Н9Н6</td><td></td></ub[>		cb`]bY	Н9Н6	

#### GWXcc``7cbHJWh'±bZcfa Uh]cb

GW.cc``cZA]bYfU`g`UbX`9bYf[mFYgcifWygC`X`AU]b`6i]`X]b[ž`@YjY``%z`%)- `fP'%) ŁIBGK `GM8B9MBGK `&\$)&5IGHF5@=5

H. 'Ž\*%'f&Ł'-',)')\$\$\*

9. a YfY"hYUW\]b[4 i bgk "YXi "Ui

K. kk k "Yb[]bYYf]b["i bgk "YXi "Ui #a ]bYfUk WbYf[ mfYyci fWg

### 7ci fgY 8YHJ] g

#### 7 fYX]hDc]bhg \* \*

#### Gi a a UfmcZh\Y 7ci fgY

 $H\g``Wci fgY`U]a g`hc`]bhfcXi WY`h\Y`ghi XYbhhc`h\Y`VUW\_[ fci bX`\_bck `YX[Y`]b`bi a Yf]WU``fYgYfj c]f`g]a i `Uh]cb k \g`j Y`fYgYfj c]f`Yb[]bYYf]b[`dfcV`Ya g`h\fci [\`h\Y`dfcZYgg]cbU``i gY`cZbi a Yf]WU``fYgYfj c]f`Yb[]bYYf]b[`dfcV`Ya g`h\fci [\`h\Y`dfcZYgg]cbU``i gY`cZbi a Yf]WU``fYgYfj c]f`g]a i `Uh]cb''`$ 

H\]g`Wci fgY`U`gc`U`dUffrcZh\Y`a Uh\Ya UhJWg`fYei ]fYa YbhcZh\Y`glfYUa "``H\YgY`Wci fgYg`]bj c`j Y
XYj Y`cda YbhcZZck `a cXY`g`fdUffr]U``X]ZZYfYbhJU``Yei UhJcb\z`UbU`mhJWU``UbX`bi a Yf]WU``gc`i hJcb"`H\Y
\_bck `YX[Y`UbX'g\_]``g`]b`h\YgY`Wci fgYg`]bWi XY.`dUffr]U``X]ZZYfYbhJU``Yei UhJcbgž'Vci bXUfmWcbX]hJcbgž
bi a Yf]WU``X]ZZYfYbhJUhJcb'UbX`]bhY[fUhJcbž'a Uhf]I `cdYfUhJcbgž'gc`i hJcbcZa Uhf]WYg`i g]b[ `YI UWhUbX`]hYfUhJj Y
a Yh\cXgžYffcfg`UggcWJUhYX`k ]h\`bi a Yf]WU``gc`i hJcbg"

#### 7 ci fgY 5]a g

- &"; i]XY'h\Y'ghiXYbhhc``YUfb`\ck'rhugn;jY'fYgunfalf'yb[]bYYf]b['dfcV`Yag'h\fci[\'h\Y'dfcZYgg]cbU` igY'cZbiaYf]WU``fYgYfjc]f'g]a\_i``Uhndunfalf

### 7coiffg¥v@MUJfþjb[hv€avhy‱a°Xg...

- %" [U]b'\_bck XXXXYUbX y TubX y TybYXXYX'hc'gc'j Y'fYgYfj c]f'Yb[]bYYf]b['dfcV'Ya g'Vma YUbg'cZ bi a Yf]WU''h' XXXXX y Y''' y YyZXYX'hc'gc'j Y'fYgYfj c]f'Yb[]bYYf]b['dfcV'Ya g'Vma YUbg'cZ

# .

#### Hi hcf]U`!@YWhi fY`Z]dd]b[

Ghi XYbhgʻUfYʻWkUʻYb[YXʻhcʻgcʻj YʻUʻhi hcf]Uʻ'ei Ygh]cbʻVYZcfYʻhkYʻfYʻUhYXʻhcd]W\UgʻVYYbʻX]gWi ggYXʻ]bʻhkY YWhi fY"ʻH\Yʻghi XYbhgʻk]ʻʻk cf\_ʻ]bʻ[ fci dg'': ]fghih\Ymk]ʻʻX]gWi ggʻhkYʻdfcVʻYa ʻghUhYa Ybhik]hkʻhkY]fʻdYYfg UbX']XYbhjZmih\YʻdfcVʻYa "'Hi hcfgʻk]ʻʻ[YhZYYXVUW\_ʻZfca ʻj Uf]ci gʻ[ fci dgʻUbXʻ[ i ]XYʻhkYa ʻ]Zh\Y]fʻdfcVʻYa ]XYbhjZmidcgg]VʻYʻgcʻi hjcbʻa YhkcXgʻUbXʻZbUʻmgcʻj YʻhkY dfcVʻYa "'5 ZhYfk UfXgž'h\Ymik]`ʻ]XYbhjZmidcgg]VʻYʻgcʻi hjcbʻa YhkcXgʻUbXʻZbUʻmgcʻj YʻhkY dfcVʻYa "'5 [ U]bž'hi hcfgʻk]`ʻ]bWfYa YbhUʻm[ i ]XYʻghi XYbhgʻhkfci [ \`hkYʻgcʻi hjcbʻcZhkYʻdfcVʻYa "'H\Y WbWi g]cbgʻXfUk bʻZfca 'hkYʻhi hcf]UʻʻUʻ][ bʻk ]hkʻhkYʻVUg]Whcd]WgʻZcfʻhkYʻZcʻ`ck ]b[ ʻʻYWhi fY"ʻH\]gʻa YUbgʻhkUhj]b hkYʻYWhi fYž'hkYʻYWhi fYfʻWJbʻWcbWbhfUhYʻa cfYʻcbʻhkYʻUxj UbWYXʻcfʻa cfYʻWca d`]WJhYX'dUfficZhkYʻhcd]W i bXYfʻX]gWi gg]cb"

a dfcj YX'5ggYgga Ybh# YYXVUW\_'hYWXb]ei Yg'

±b 'UXX]h]cb 'hc 'h\Y 'Wcbj Ybh]cbU``UddfcUW\Ygž'k Y 'gi [[Ygh'Zc``ck]b['hYV\\b]ei Yg

%"`5hh\Y'YbX'cZYj YfmhYUV\\]b['k YY\_žgh XYbhg'k]```gc`j Y'Ub'cb`]bY'ei ]n`k\]W\'k]```hYghh\Y]f`\_bck `YX[Y" H\YgY'ei ]nnYg'k]``bchVY'U'dUfhcZh\Y'Z]bU``UggYgga YbhVi hk]```dfcj ]XY'Zcfa Uhjj Y'ZYYXVUW\_hc`gh XYbhg UbX'[i]XY']bqhfi Whcfq`]b'h\Y]f'hYUW\]b["

&""DYYf'ZYYXVUW\_Zc``ck]b['h hcf]U`g"'H\]g'k]``bchVY'dUfhcZh\Y'ZbU``UggYgga Ybh

' "''C b`]bY ei ]nh]cb

# 5ggYgga Ybh

### 5ggYgga Ybh'HUg\_g

5ggYgga Ybh'hUg_	K Y][\h	8iY'8UHY	Gh XYbh@YUfb]b[ Ci hWca Ygʻ5ggYggYX
Dfc YWi	&) ı	% #%#&\$&\$`%%\$\$`DA	%ž <sup>*</sup> &
Ei]n	&) ı	&, #/\$#&\$&\$`\$+.\$\$`DA	%ž`&ž`'
: ]bU``91 Ua `	) \$1	I BGK "H]a YhJV"Y	%ž'&ž''

### 5ggYgga Ybh'8YHJ]`g

5ggYgga Ybh% Dfc YWh

8YHJ]`g.Ghi XYbhg`k]``bYYX`hc`dfYX]Whh\Y`dYfZcfa UbWY`cZU;f\@Yfj\f\f\"

Hi fb]h]b gYh]b[. H\]g ]g bchU Hi fb]h]b Ugg][ ba Ybh

5ggYgga Ybh'& Ei]n

GHJfhXUhY. &, #%\$#&\$&\$ \$) .\$\$ DA

8YHJ]`g.

E i ]n']b'k YY\_!+

5ggYgga Ybh' . : ]bU` 9l Üa

8YHJ]`g.: ]bU`'YI Ua

\*\*\*\*

## 5 https://bxubwww.Fyei]fYaYbhg

 $\hbox{Ghi XYbhg'UfY'ghfcb[`m'YbWc'i fU[YX'hc'UhhYbX'U```WUggYg'UbX'fYj]Yk'``YWhfY'fY'WcfX]b[g''' } \\$ 

# 7ci fgY'GWXYXi `Y

### J]Yk 'WUgg'hja YHUV'Y

### H]a YtUV`Y

8 UHY	HmdY	7 cbhYbh
C K YY,, GYdhYa VYf'!'- GYdhYa VYf		
K YY_'%'%('GYdhYa VYf'! %'GYdhYa VYf		⇒bfcXi Wjcb'hc'U'g]a i `Uhjcb'ghi Xm
K YY_'&.'&%'GYdhYa VYf'! &) 'GYdhYa VYf		G]a i `Uhcf:Yer Uh]cbg'#  D#UW]WJ``fYgY'g c]f'g]a i `Uh]cb
K YY_" .'&, 'GYdhYa VYf'! &'C WcVYf		Cai `Uhor Yei Uhoogʻ# Davi Yei Uhoogʻ#
K YY_'(.') 'C WcVYf'!'- C WcVYf		Bi a Yf]WU`Gc`i h]cbg#  DfUWf]WU`fYgYfj c]f`g]a i `Uh]cb
K YY_').'%&'CWncVyfi!'%* CWncVYf		Bi a Yf]WU``Gc`i h]cbg# DfUWf]WU``fYgYfj c]f`g]a i `Uh]cb
K YY_'*.'%-'CWhcVYf'!'& CWhcVYf	8 m/s 8	C b`]bY`X]gW gg]cbg#Yj ]g]cb`fbdh]cbU`Ł
K YY_"+."&*"C WcVYf"!" \$ C WcVYf		A cXY`]b]rjU`]nUrjcb
K YY_', .'&'Bcj Ya VYf'!'* Bcj Ya VYf		HfYUha YbhcZk Y``g
K YY_''- 'Bcj Ya VYf'! % 'Bcj Ya VYf		DgYi Xc!Zi bWgcbg
K YY_"%\$."%*"Bcj Ya VYf"! &\$"Bcj Ya VYf		7C&GYei YghfUhjcb

-

# FYgci fWyg

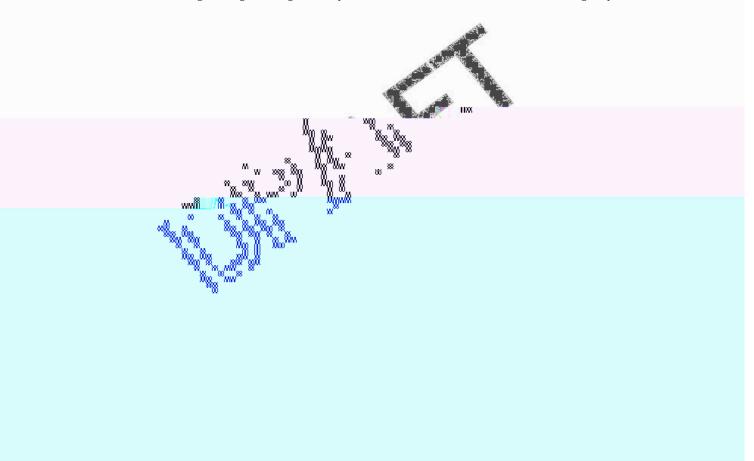
## DfYgWf]VYX F Ygci fWYg

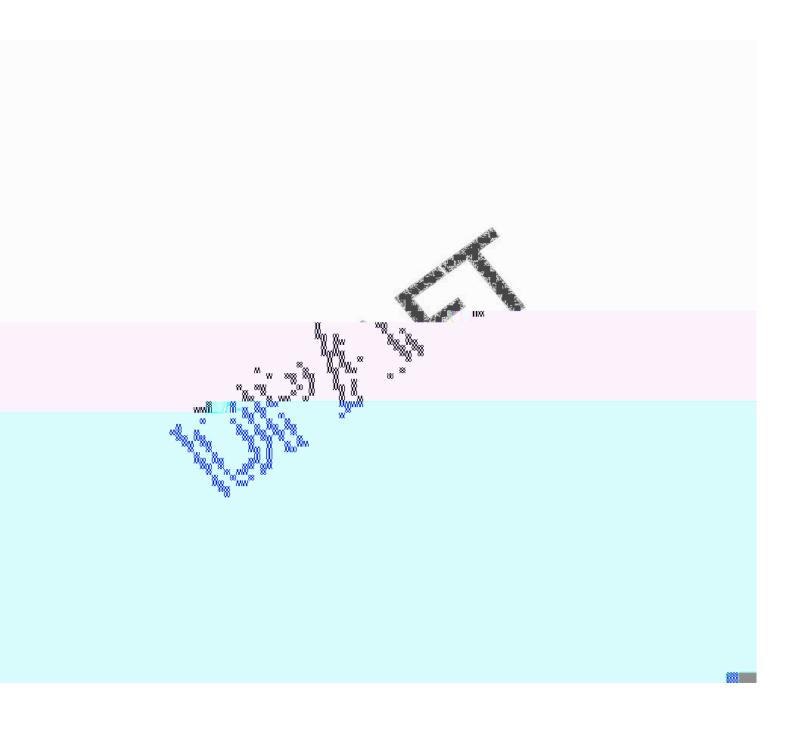
Bch'Uj U]`UV`Y

# FYWca a YbXYX FYgci fWyg

Bch'Uj U]`UV`Y

# 7 ci fgY '9j U'i Uh]cb 'UbX '8Yj Y`cda Ybh



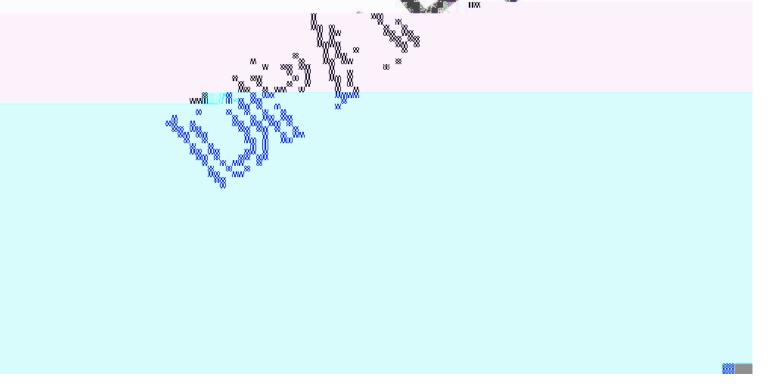


### 5 WUXYa ]W<cbYghmUbX D`U[ ]Uf]ga

Mci f`YWi fYf'UbX'h\Y'I b]j Yfg]lmk]``YI dYWimci f`gi Va ]lhYX'Ugg][ ba Ybhg'UfY'lfi `mimci f`ck b'k cf\_"'I BGK \Ug'j YfmWYUf'[i]XY`]bYg'cb'k \Uhd`U[]Uf]ga ']g'UbX'\ck 'hc'Uj c]X']h'D`U[]Uf]ga ']g'i g]b[ 'h\Y'k cfXg'cf ]XYUg'cZch\Yfg'UbX'dfYgYbh]b[ 'h\Ya 'Ug'mci f`ck b"'D`U[]Uf]ga ']g'U'mdY'cZ]bhY``YWi U`'h\YZh''±i\Wb'hU\_Y a Ubm'Zcfa gž'Zca 'XY`]VYfUhY'W\YUh]b[ 'hc'UW]XYbhU``mWcdm]b[ 'Zfca 'U'gci f\W'k ]h\ci h'U\Ubck `YX[ Ya Ybh' H\Y'I b]j Yfg]lm\Ug'UXcdhYX'Ub'YXi WUh]j Y'UddfcUW\ 'hc'd`U[]Uf]ga 'UbX'\Ug'XYj Y`cdYX'U'fUb[ Y'cZ fYgci f\W'g'hc'gi ddcfhghi XYbhg"'5``h\Y'XYhU]`g'cb'd`U[]Uf]ga ž']bWi X]b[ 'gca Y'i gYZ\ `fYgci f\W'gž\Wb'VY Zci bX'Uhk k k "qhi XYbhi bak "YXi "Ui #d`U[]Uf]ga "

 $5 ```A ]b]b[ "9b[ ]bYYf]b[ "ghi XYbhg"UfY`fYei ]fYX`hc`Wca d`YhY`U'ghi XYbhXYWUfUh]cb`Zcf`UWUXYa ]W]bhY[ f]hm k \]WX ]g`ci h]bYX`]b`h\Y`Ugg][ ba YbhWcj Yf`g\YYhg"`6mg][ b]b[ "h\]g`XYWUfUh]cbž`mci "U[ fYY`h\Uh'mci f`k cf_']g mci f`ck b`cf][ ]bU``k cf_"$ 

⊋mci 'bYYX'gca Y'UXX]h]cbU``gi ddcfhk]h\ 'mci f`k f]h]b[ 'g\_]``gž'd`YUgY'WcbhUWh\Y'@YUfb]b[ '7 YbhfY'cf'j]Yk gca Y'cZh\Y'fYgci fWg'cb'h\Y]f`k YVg]hY. 'k k k "`Wi bgk "YXi "Ui "'' H\Y @YUfb]b[ '7 YbhfY']g'XYg][ bYX'hc'\Y`d mci ']a dfcj Y'mci f'UWUXYa]Wk f]h]b[ 'UbX'Wca a i b]WUh]cb'g\_]``d Gca Y'ghi XYbhg'i gY'h\Y'7 YbhfY'gYfj]WYg VYWUi gY'h\YmUfY'Z]bX]b[ 'h\Y]f'Ugg][ ba Ybhg'U'W\U``Yb[ Yžen\Yfg'VYWU, gY'h\Ymk Ubhhc']a dfcj Y'Ub'U`fYUXm gi WWggZ ``UWUXYa]WdYfZcfa UbW'"



# 5 WUXYa]W ±b Zcfa Uh]cb 7 ci fgY F Ygi `hg

: cf`XYHJ]`g`cb`l BGK 'UggYgga Ybhdc`]Whž'd`YUgY'j ]g]h'

- VfcUXVUbX:WcbbYWgcb:f&) \* \_V]h#gYWcf:ZJghYfL
- UV]]mmhc"j [Yk "ghfYUa ]b["j ]XYc"fl\][\"cf"ck "XYZ|b]hcb"l BGK "HJ "cdhlcbgk

A cfY ]bZcfa Uh]cb UVci hgmghYa 'fYei ]fYa Ybhg ]g Uj U] UV Y UhKkk mgh XYbh'i bgk "YXi "Ui #a ccX Y! gmghYa!fYei ]fYa Ybhg

.

#### 5 WW gg]b[ 7 ci fgY A UhYf]U g H\fci [\ A ccX`Y

7 ci fgY'ci h]bYgžigi ddcfha UhYf]U`g`UfY'i d`cUXYX'hc`A ccX`Yž'h\Y'i b]j Yfg]lmighUbXUfX`@YUfb]b[
A UbU[ Ya YbhGmghYa 'f@A GŁ" \= b`UXX]h]cbžcb!`]bY'Ugg][ ba Ybhigi Va ]gg]cbg'UfY'a UXY'i g]b[ 'h\Y
Ugg][ ba YbhXfcdVcl 'ZJVJ\]lmidfcj ]XYX`]b'A ccX`Y" 5```Ybfc``YX'ghi XYbhg'UfY'Ui hca Uh]WU``m]bWi XYX`]b
A ccX`Y'Zcf`YUW\'Wci fgY"'Hc'UWW'gg'h\YgY'XcW'a Ybhg'UbX'ch\Yf'Wci fgY'fYgci fW'gž'd`YUgY'j ]g]h'\
k k k "a ccX`Y'hY`h'i bqk "YXi "Ui

.

#### < ck K Y 7 cbhJWhMci

5 hh]a Ygžh\Y'GV\\cc``cf'mci f'V\cbi fgY`V\cbj Ybcfg'a UmbYYX'hc`V\cbhUV\hmci 'UVci hmci f'V\cbi fgY`cf'mci f Ybfc`a Ybh''N\ci f'V\cbi fgY`V\cbj Ybcfg'k]```i gY`h\Y`Ya U]``Z b\\h]cb`k]h\]b`A ccX`Y`cf`k Y`k]```W\cbhU\\hmci 'cbmci f'4 ghi XYbh'i bgk "YXi "Ui 'Ya U]``UXXfYgg"

K Y'i bXYfgHJbX'h\Uhimci 'a Um\Uj Y'Ub'Yl ]gh]b[ 'Ya U]``UVWci bhUbX'k ci `X'dfYZYf'Zcf'mci f'l BGK 'Ya U]`g'hc VY'fYX]fYWhYX'hc'mci f'dfYZYffYX'UWWci bh''D`YUgY'gYY']bghfi Wh]cbg'cb'\ck 'hc'fYX]fYWhmci f'l BGK Ya U]`q.''<u>< ck 'WJb'=Zcfk UfX'a mYa U]`q'hc'Ubch\Yf'UVWci bh8"</u>

.

#### < ck Mci 7 Ub 7 cbhUWh I g

9bfc`a Ybhicfich\Yf'UXa ]b'ei Ygh]cbg'fY[ UfX]b[ 'mci f'dfc[ fUa .' \htdg.## bgk ]bg][ \h'a ]\Wcqc\ZhWa dcfhU`g"\Wca #k YV!\Zcfa g#

\_

K Y'UW_bck YX[Y'h\Y'6YXY[U``dYcd`Y'k\c'UfY'h\Y'`lfUX]h]cbU``W ghcX]Ubg'cZh\Y``UbXg'cb'k\]W\'I BGK ?Ybg]b[hcb'WJa di g']g'`cWJhYX"