

# **ARTS2451**

±bhYfa YX]UhY '7 \ ]bYgY 'Zcf'Bcb!6UW\_[ fci bX'GdYU\_Yfg'6

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

# 7ci fgY 8YHJ] g

7 fYX]hDc]bhg\*\*

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

 $H\[g]\[Wci\ fgY']g'XYg]\[bYX'Zcf'ghi\ XYbhg'k\ \c'\Uj\ Y'UWei\ ]fYX'U'VUg]\[WYj\ Y'`cZgdc_Yb'7\]bYgY'fA\ UbXUf]bE'UbXU'k\ cf_]b['__bck'YX[Y'cZi\ d'hc'Y][\ h'\ i\ bXfYX'g]a\ d']Z]YX'W\UfUWfYfg']b'h\Y]f'%') 'mYUfg'cZghi Xmz'Ug'k Y'``Ug Zcf'h\cgY'ghi XYbhg'k\c'YbHYf'h\Y'7\]bYgY'`Ub[i\ U[Y'dfc[fUa'k]h\ 'Ub'Yei]j\ U'Ybh_bck 'YX[Y'cZ7\]bYgY'\Uk'ufUWfYfg''=i]g'XYg][bYX'Zcf'ghi XYbhg'k\c'Xc'bch'Wca Y'Zfca''U'7\]bYgY'W''hi\ fU``UbX``Ub[i\ U[Y'fcf X]U'YWfz'VUW_[fci\ bX''-\neth'h\]g'Wci\ fgYzmci'k\]'``]a\ dfcj\ Y'mci\ f7\]bYgY'\g_]``g']b'h\Y'\UfYUg'cZgdYU_]b[z'\]ghYb]b[z'fYUX]b[z'UbX'k\]'``a\ U_Y'g][b]Z]\Ubh'[U]bg']b'mci\ f'Wca\ a\ i\ b]\UbY\ff Y'g_]``g']b'cfU``UbX\ k\ f]hYb'Zcfa\ g''\Mci'\ k\]'``U'gc'VY'YI\ dcgYX'hc'UgdY\Wg'cZ7\]bYgY'\]ghcfmz'\W'\hi\ fYz'dc']h]\Wgz'UbX'gc\W]Yhm\ fY'Yj\ Ubh'hc'[]j\ Yb'hYI\ hg']b'7\]bYgY']b'`Ub[i\ U[Y'Uwei]g]h]cb''$ 

### 7 ci fgY @YUfb]b[ Ci hMca Yg

- %" 5dd`miYZZYWfj Y`ghfUhY[]Yg`Zcf`fYUX]b[`7\]bYgY`hYI hg`Zfca 'j Uf]ci g`gci fWYg`UbX`cb`U'j Uf]YhmicZ hcd]Wg`
- &" 7 ca dcgY 'g\cfhYggUmg ']b '7 \]bYgY 'cb 'U'[ ]j Yb 'hcd]Wk ]h\ 'WcbZ|XYbW' \\
- ' " = 1]HUHUHY Y | YfmXUmWcb | YfgUHcbg UbX Yb [ U [ Y ] b X]gW gg]cbg ]b 7 \ ]bYgY ....
- ("8YacbglfUlY'Wf]r]WU``UddfYW]Ulr]cb'UbX'biUbWYX'\_bck`YX[Y'cZ7\]bYgY``]b[i]gh]WVY\Uj]cifzqcW]Ylm'UbX'W`hifY```

### HYUWX]b[ GhfUhY[]Yg

H\Y`Wci fgY`Wca df]gYg`lk c`Wca dcbYbhg`cZZJWY!hc!ZJWY`hYUW\]b[`UbX`YUfb]b[`dYf`k YY\_`ff%cH\Y`YWhifyg dfcj]XY`Ub`]blfcXi Wf]cb`hc`[ fUa a Ufz`\_Ym`Ub[ i U[ Y`UbX`W`hi fU`]ggi Yg`]b`YUW\`Yggcbz`k ]h\`dfUWf]WYg`hc Wcbgc`]XUHY`bYk `\_bck `YX[ Y`]b``Ub[ i U[ Y`Uwei ]g]h]cb/f&cH\Y`hi hcf]U`g`ZcWi g`cb`k cf\_Vcc\_`YI YfW]gYgzk ]h\ cddcfhi b]h]Yg`Zcf`ghi XYbhg`hc`dfUWf]WY`cfU``7\]bYgY`UbX`UXXfYgg`]ggi Yg`]b`fYUX]b[`UbX`k f]h]b[`"`Mci `g\ci `X dfYj]Yk `h\Y`bYk `k cfXg`VYZcfY`YUW\`YWhifY`UbX`Xc`h\Y`YI YfW]gYg`]b`h\Y`k cf\_Vcc\_`VYZcfY`YUW\`hi hcf]U`" Mci `UfY`YI dYWhYX`hc`U``cWUhY`UXX]h]cbU``h]a Y`Zcf`gY`Zghi XmUbX`dUffbYf``Ub[ i U[ Y`dfUWf]WYz`k \]W\`k ]``VY W\YW\_YX`k YY\_`m`]b``YWhifYg`UbX`hi hcf]U`g"`9b[ U[ Ya Ybhik ]h\`h\Y`Wci fgY`WcbhYbhik ]```VY`Z fh\Yf`UggYggYX VmU`a ]X!hYfa `hYqhUbX`Ub`YbX!cZhYfa `ZbU``hYqh'

## 5ggYgga Ybh

#### 5ggYgga YbhHUg\_g

| 5ggYgga Ybh'hUg_          | K Y][ \h | 8i Y'8UHY                   | Gh XYbh@YUfb]b[<br>Ci hWca Ygʻ5ggYggYX |
|---------------------------|----------|-----------------------------|--|
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| ₫bU``hYgh                 | ')।      | Bch5dd`]WUV`Y               | %ž&ž(                                  |
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### 5ggYgga Ybh'8YhJ]`g

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GhUfhXUhY. Bch5dd`]WUV`Y

**@Yb[h**\.'' '!'\*'a]bi hYg'YUW\'YI YfW]gY

8YHJ]`g.

9 UWX 'ghi XYbhik ]```VY'fYei ]fYX'hc 'Xc 'Uh`YUghilk c 'X]U`c[ i Y 'YI YfW]gYg'k ]h\ 'U``Ub[ i U[ Y'dUffbYf'h\fci [ \ci h h\Y'Wci fgY']b '`YWfi fYg'': YYXVUW\_j ]U']bX]j ]Xi U``Wca a Ybhgžfi Vf]W $^*$ UbX']b!WUgg'X]gW gg]cb"

 $Hi\ fb]hb\ gYhb[\ .\ H\]g\]g\ bchU\ Hi\ fb]hb\ Ugg][\ ba\ Ybh$ 

5ggYgga Ybh'& 'A]X!gYa YghYf'hYgh

GhUfhiXUhY. Bchi5dd`]WUV`Y

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Hi fb]hjb gYhjb[. H\]g ]g bchU Hi fb]hjb Ugg][ ba Ybh

5ggYgga Ybh' . ZJbU` hYgh

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# FYgci fWfg

### DfYgWf]VYX F Ygci fWYg

 $\%'' + bh'[fUh'X'7 \] bYgYžJ c`i a Y`(ž'(h\'9X''ž'HYIh'Vcc_'fDUdYfVUW_ž'G]a d`] Z]YX/'' HfUX]hJcbU`Ł''' OG6B. -+, %* &&- %%) %* Q$ 

&"'=bH'[fUHYX'7\]bYgYžJc`i a Y'(ž'(h\'9X"žK cf\_Vcc\_`fDUdYfVUW\_ž'G]a d`]ZYX'/ 'HfUX]hJcbU`Ł"' O£6B. -+, %\* &&- %%) &' Q

### FYWca a YbXYX FYgci fWfg

5j U]`UV`Y`cb'A ccX`Y

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

 $H\g^WcifgY^gZcfaU^mYjU^iUhYX^h\fci[\Am9IdYf]YbWV''$ 

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

### Hi fb]h]b Gi Va ]gg]cb

Image: Ybwci bhYf'U'dfcV'Ya k \Yb'UhYa dhjb['hc'gi Va ]hmci f'Ugg][ ba Ybhh\fci [\'Hi fb]h]bz'd'YUgY

HY'Yd\cbY'9| hYfbU''Gi ddcfhcb'-', ) "''' %cf'Ya U]''h\Ya 'cb'Y! hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui ""Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY\_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'mYUft'''=\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ugg][ ba YbhXi Y'hc'U'ZJi 'hk ]h\'Hi fb]h]b'mci 'a UmUdd'm\mathred{Image: Wa Jhmci f'Ub'Y! hYbg]cb\mathred{Image: Wa Jhmci h\Yf'f'Y'j UbhXcW a Ybhg\mathred{Image: Wa Uj''9! hYfbU''Gi ddcfhmci 'k ]'`

JbWi XY'Ug'Yj ]XYbW' hc'gi ddcfhmci f'Y! hYbg]cb'Udd']\wUh]cb"'\mathred{Image: Wa Uj''9! hYfbU''Gi ddcfhmci 'k ]'`

Ui hca Uh]\wU'`mfYW']j Y'U'h]\w\_Yhbi a VYf\mathred{Image: hY'Yd\cbY'mci 'k ]\tag{Y}\wu''mug\_'\mathred{Image: Wa'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY}\wu''mug\_'\mathred{Image: hY'Yd\cbY''mci 'k ]\tag{Y}\wu''mug\_'\mathred{Image: hY'\mathred{Image: hY'\mathred{I

; YbYfU``mž'UggYgga YbhiHug\_g'a i ghVY'gi Va ]hhYX'Y`YVWfcb]\W)``mij ]U'Y]h\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ ba Ybh'' =b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk ]```VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k ]h\U`hYfbUhjj Y'gi Va ]gg]cb'XYHJ]`g''

cfi]bZcfa Uhjcbicbi\ckihcigi Va ]hUgg][ ba Ybhgicbi]bYij ]UiA ccXiY.i\hdg.#gh XYbhi bgk "YXi "Ui #\ck! gi Va ]hUgg][ ba Ybha ccXiY

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i=hWJbihU\_Yia Ubm Zcfa gžZfca iXYi]VYfUhYiWXYUh]b[ihciUWW]XYbhU`mWcdm]b[iZfca iUigci fWYik]h\ci hiUW\_bck iYX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga ]bhc'h\Y'Zc``ck]b['WUhY[cf]Yg.

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj ]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY'qYfj |WYq'UbX']bZcfa UHcb'UVci hi BGK 'UbX'l BGK '@|VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci žch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWng'cZ9@&9'k]``\Y`d'mci 'a U\_Y'h\Y'a cghcZmci f'gh X]Yg'UhI BGK "'\\hd.##qi V'YWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY